

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 :

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
31) Carbon tetrachloride	5.309	117	74402	3.084	ug/L	99
34) Trichloroethene	6.537	95	299242	16.165	ug/L	98
35) Methylcyclohexane	6.685	83	18019	0.660	ug/L #	17
37) 1,2-Dichloropropane	6.685	63	8135	0.471	ug/L #	95
42) Toluene	7.965	91	23768	0.340	ug/L	98
47) Tetrachloroethene	8.550	164	5184	0.400	ug/L	90
48) 2-Hexanone	8.676	43	3923	0.672	ug/L #	36
49) Dibromochloromethane	8.547	129	5296	0.395	ug/L #	11
51) Chlorobenzene	9.444	112	16974	0.381	ug/L	93
61) 1,2,3-Trichloropropane	11.807	75	13144	1.409	ug/L #	65
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

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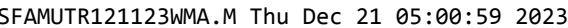
Instrument :
MSVOA_U
ClientSampleId :

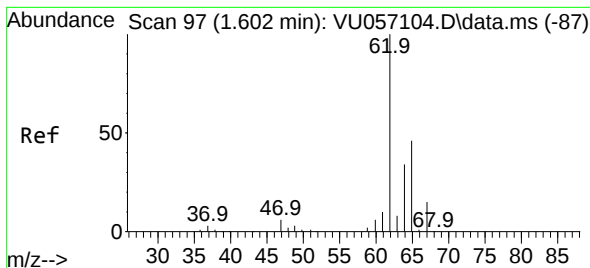
Quant Time: Dec 21 05:00:51 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR121123WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Thu Dec 21 01:34:13 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#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

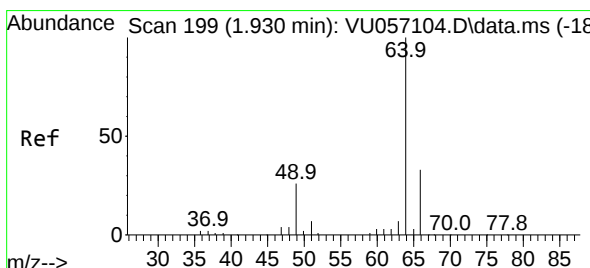
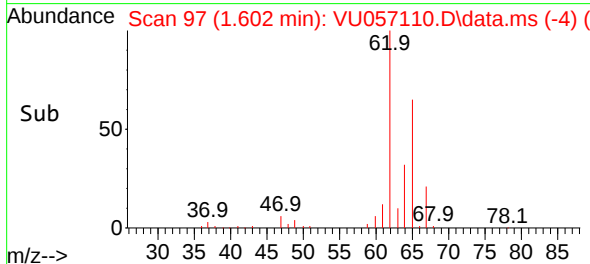
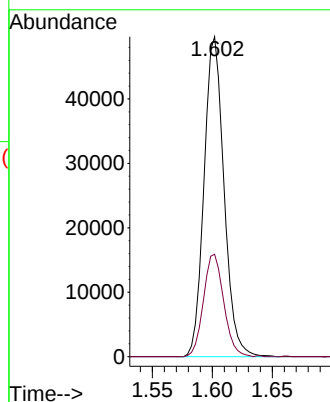
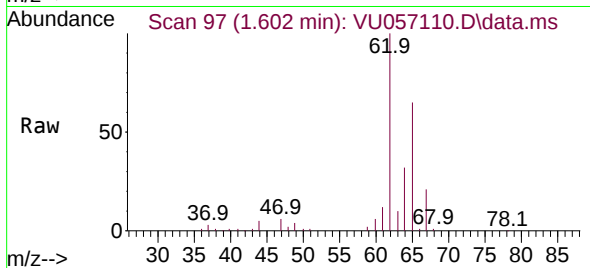
ClientSampleId :

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

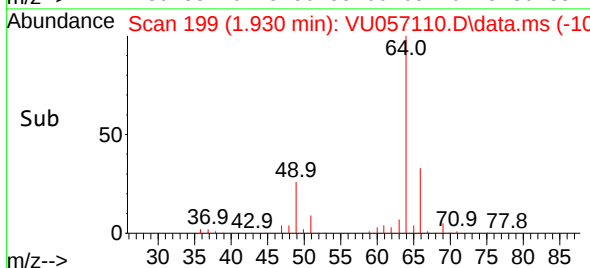
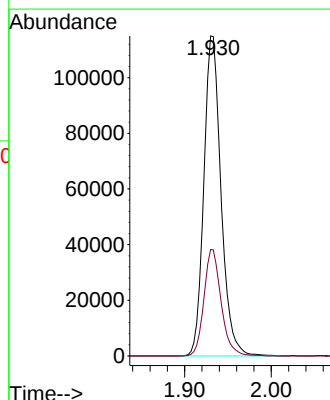
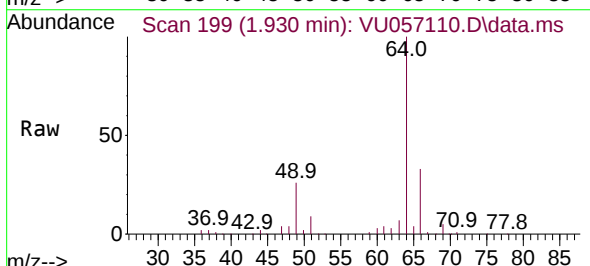
Acq: 20 Dec 2023 22:55

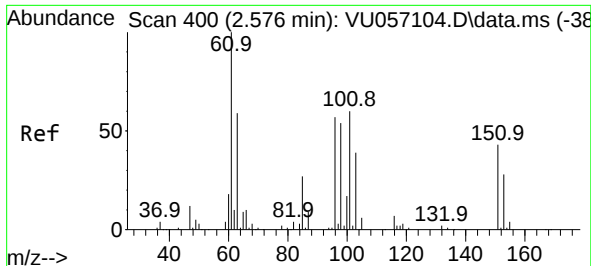
Tgt Ion: 64 Resp: 158700

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 :

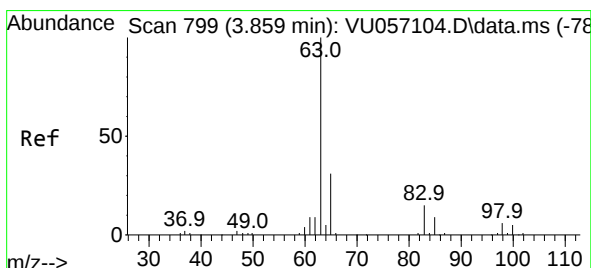
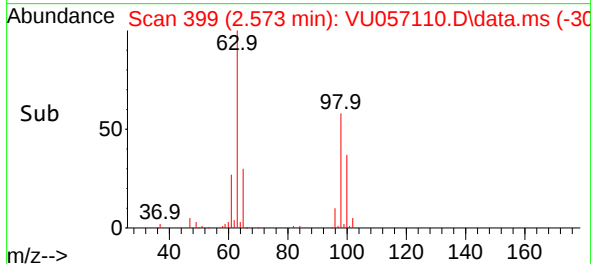
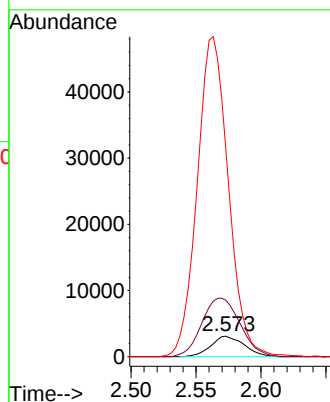
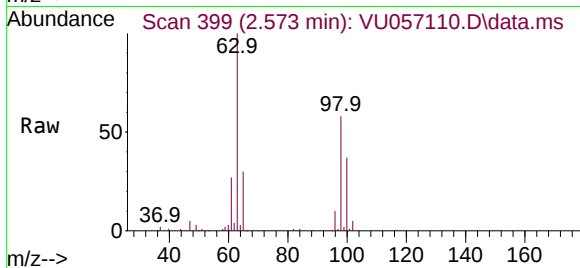
Tgt Ion: 96 Resp: 5512

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

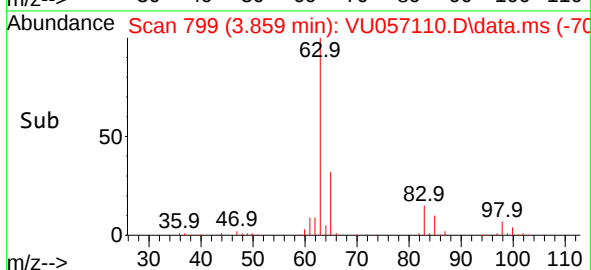
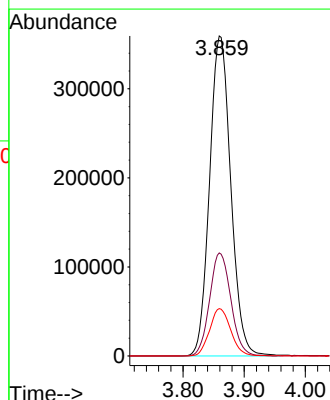
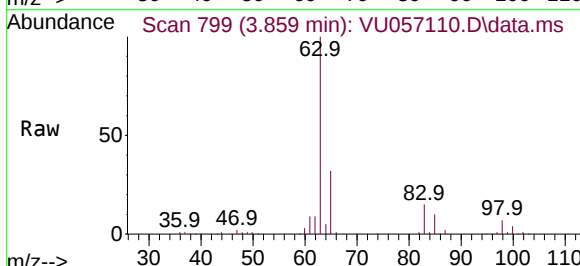
Tgt Ion: 63 Resp: 866392

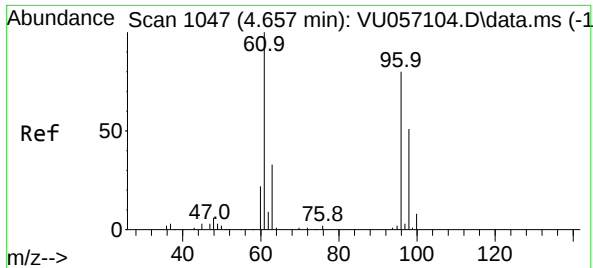
Ion Ratio Lower Upper

63 100

65 32.2 22.9 42.5

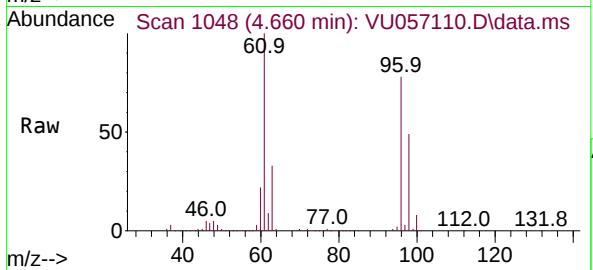
83 14.8 10.1 18.9



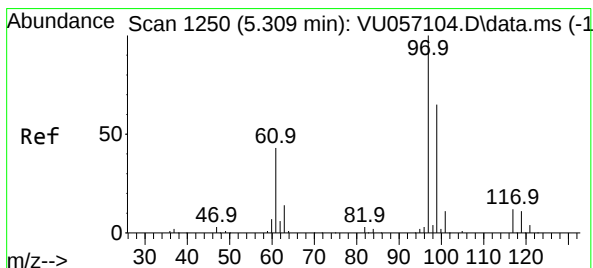
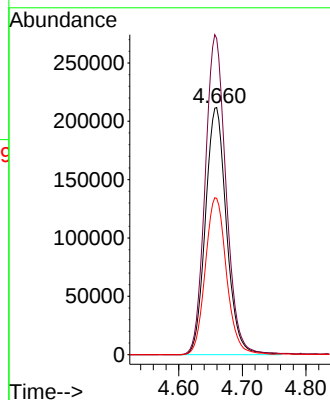
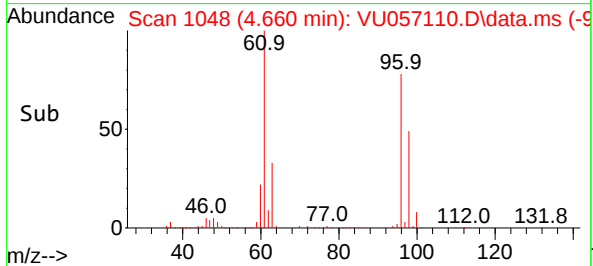


#22
 cis-1,2-Dichloroethene
 Concen: 27.942 ug/L
 RT: 4.660 min Scan# 1048
 Delta R.T. 0.003 min
 Lab File: VU057110.D
 Acq: 20 Dec 2023 22:55

Instrument :
 MSVOA_U
 ClientSampleId :

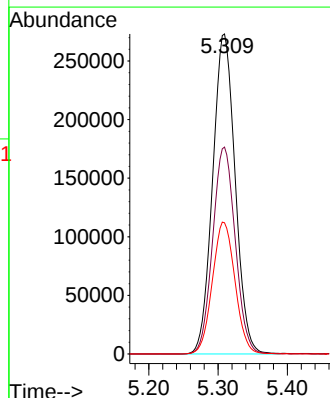
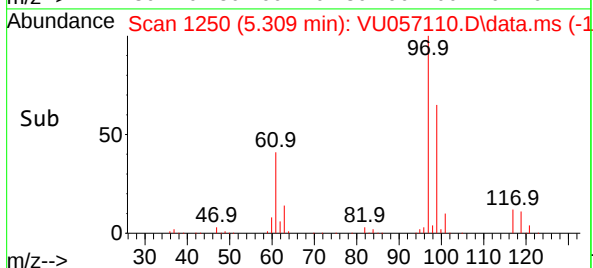
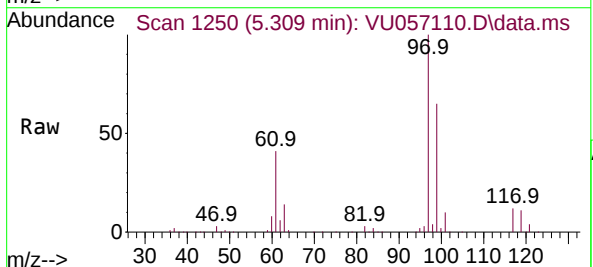


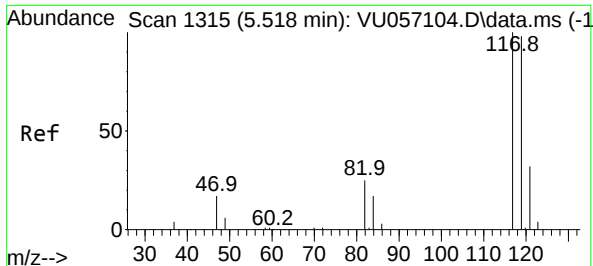
Tgt Ion: 96 Resp: 486296
 Ion Ratio Lower Upper
 96 100
 61 128.0 91.3 169.6
 98 63.2 44.2 82.0



#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

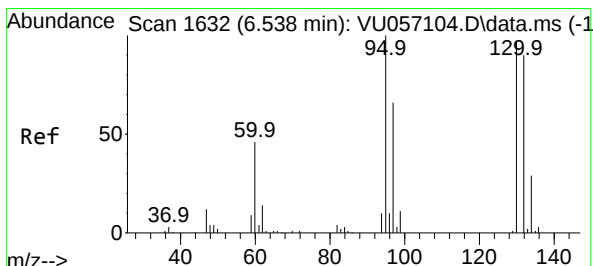
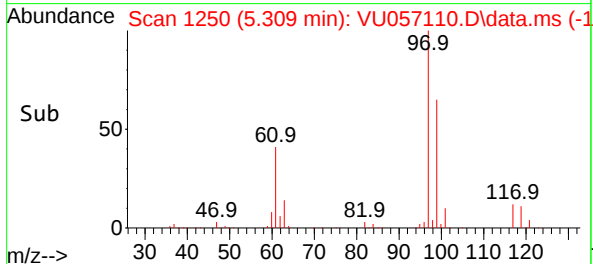
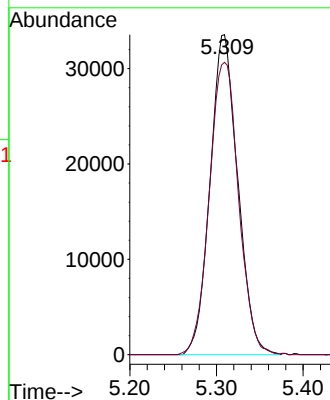
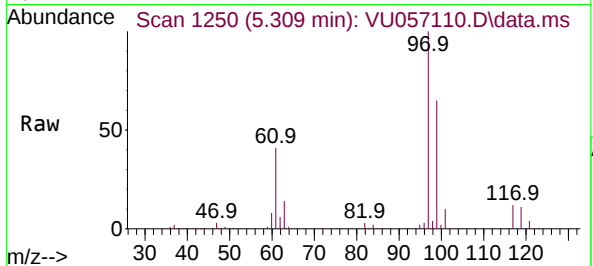




#31
Carbon tetrachloride
Concen: 3.084 ug/L
RT: 5.309 min Scan# 117
Delta R.T. -0.209 min
Lab File: VU057110.D
Acq: 20 Dec 2023 22:55

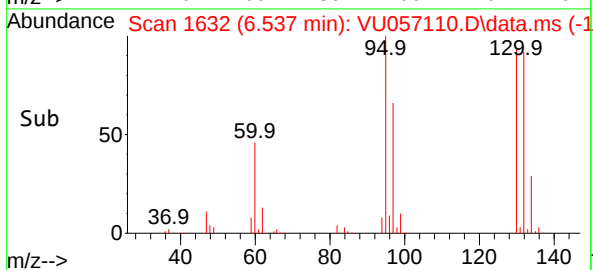
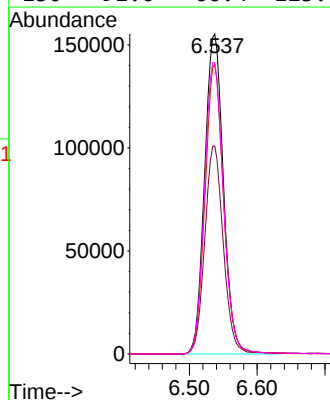
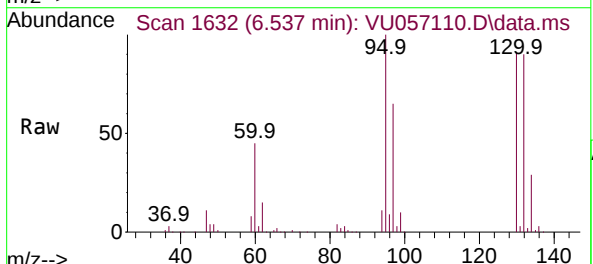
Instrument :
MSVOA_U
ClientSampleId :

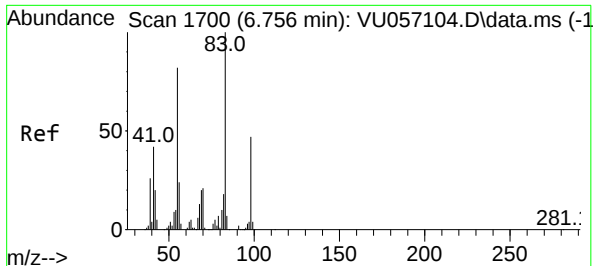
Tgt Ion:117 Resp: 74402
Ion Ratio Lower Upper
117 100
119 96.7 76.2 114.4



#34
Trichloroethene
Concen: 16.165 ug/L
RT: 6.537 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VU057110.D
Acq: 20 Dec 2023 22:55

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





#35

Methylcyclohexane

Concen: 0.660 ug/L

RT: 6.685 min Scan# 1678

Delta R.T. -0.071 min

Lab File: VU057110.D

Acq: 20 Dec 2023 22:55

Instrument :

MSVOA_U

ClientSampleId :

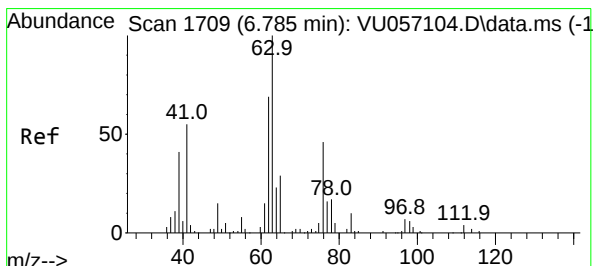
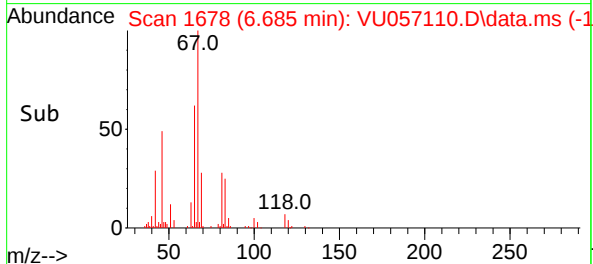
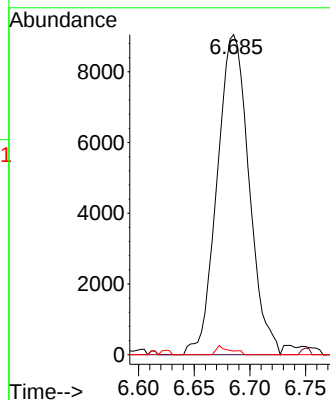
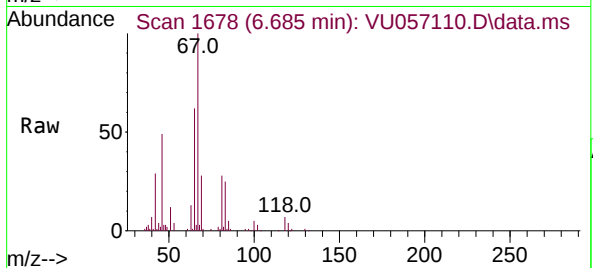
Tgt Ion: 83 Resp: 18019

Ion Ratio Lower Upper

83 100

55 0.5 64.6 97.0#

98 0.0 36.1 54.1#



#37

1,2-Dichloropropane

Concen: 0.471 ug/L

RT: 6.685 min Scan# 1678

Delta R.T. -0.100 min

Lab File: VU057110.D

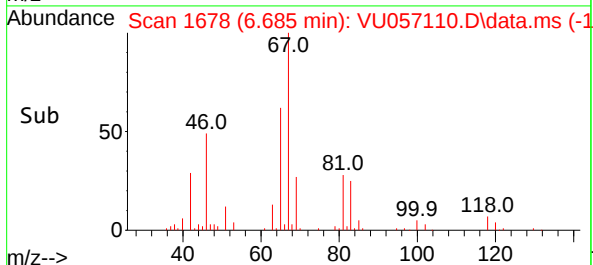
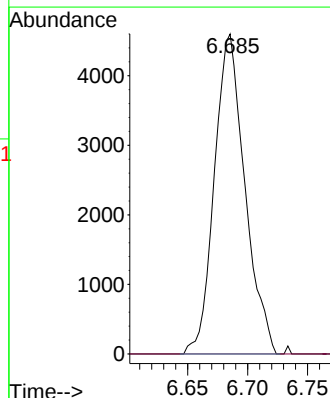
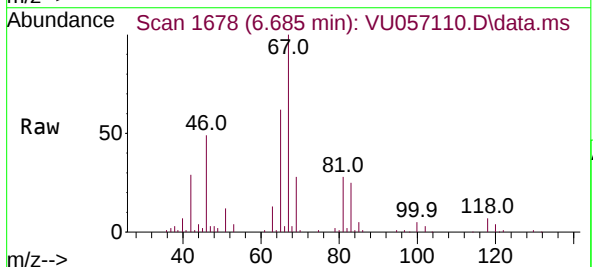
Acq: 20 Dec 2023 22:55

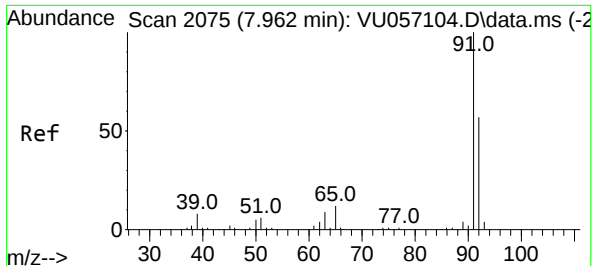
Tgt Ion: 63 Resp: 8135

Ion Ratio Lower Upper

63 100

112 2.6 3.3 4.9#





#42

Toluene

Concen: 0.340 ug/L

RT: 7.965 min Scan# 2075

Delta R.T. 0.003 min

Lab File: VU057110.D

Acq: 20 Dec 2023 22:55

Instrument :

MSVOA_U

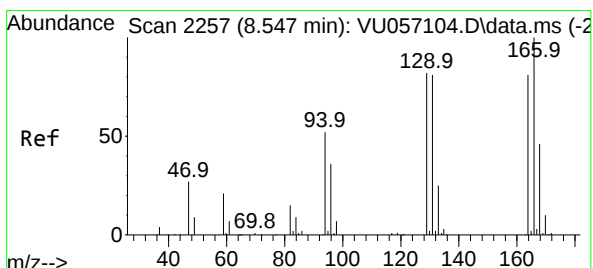
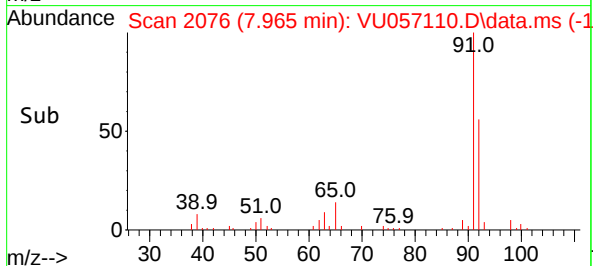
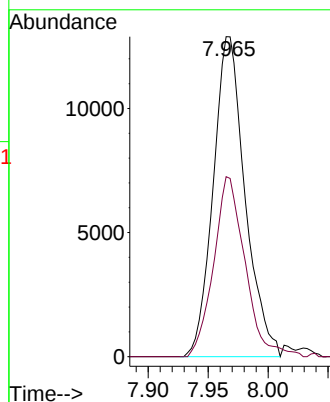
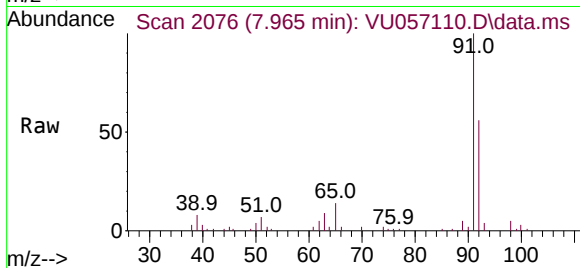
ClientSampleId :

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# 2258

Delta R.T. 0.003 min

Lab File: VU057110.D

Acq: 20 Dec 2023 22:55

Tgt Ion: 164 Resp: 5184

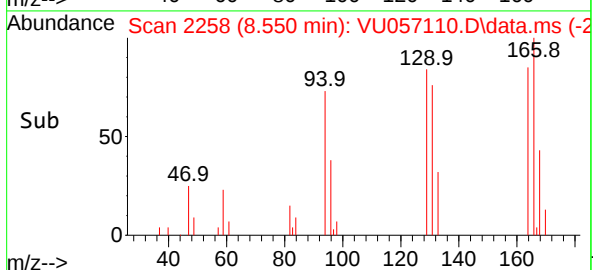
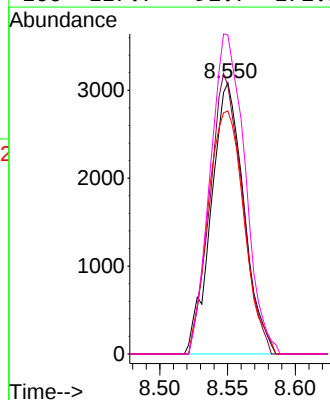
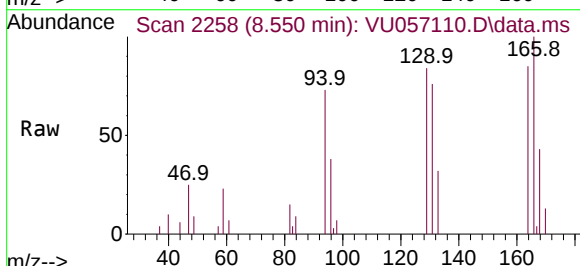
Ion Ratio Lower Upper

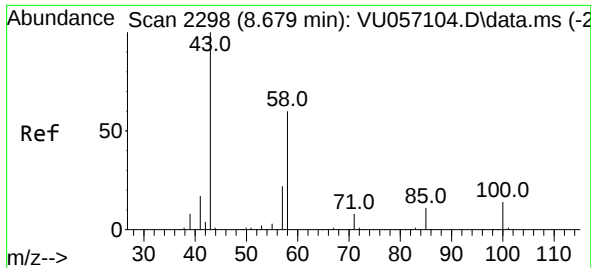
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131 89.7 71.5 132.9

166 117.7 92.7 172.1

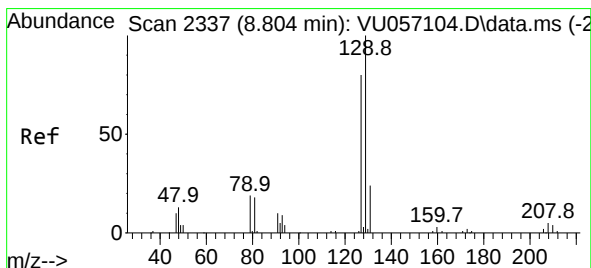
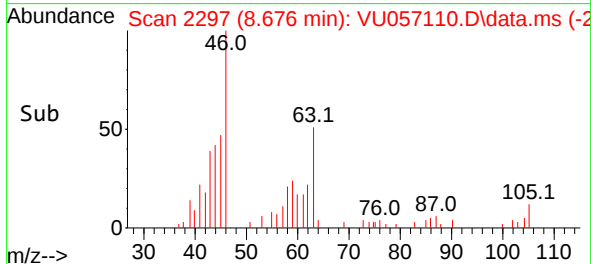
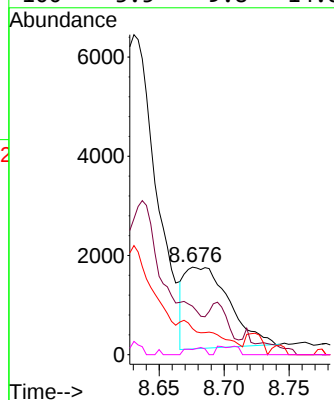
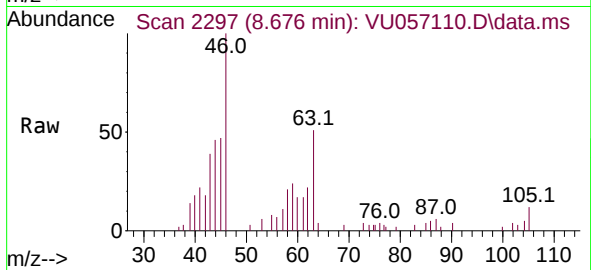




#48
2-Hexanone
Concen: 0.672 ug/L
RT: 8.676 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU057110.D
Acq: 20 Dec 2023 22:55

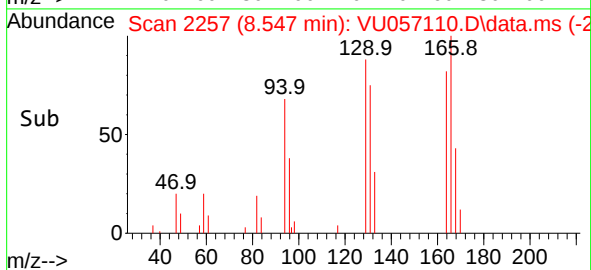
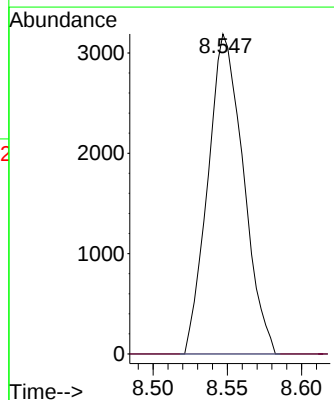
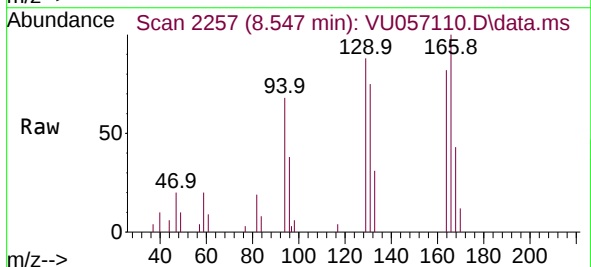
Instrument :
MSVOA_U
ClientSampleId :

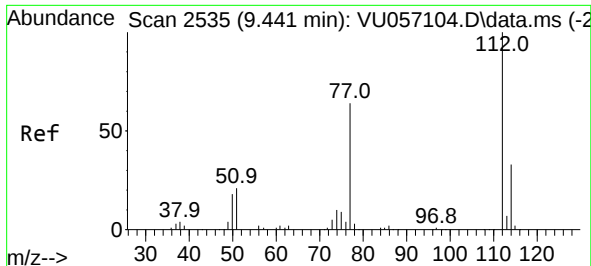
Tgt Ion: 43	Resp:	3923
Ion Ratio	Lower	Upper
43	100	
58	0.0	47.5 71.3#
57	0.0	17.0 25.4#
100	3.5	9.8 14.8#



#49
Dibromochloromethane
Concen: 0.395 ug/L
RT: 8.547 min Scan# 2257
Delta R.T. -0.257 min
Lab File: VU057110.D
Acq: 20 Dec 2023 22:55

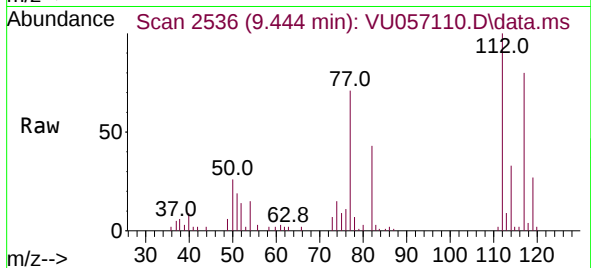
Tgt Ion: 129	Resp:	5296
Ion Ratio	Lower	Upper
129	100	
127	0.0	53.9 100.1#



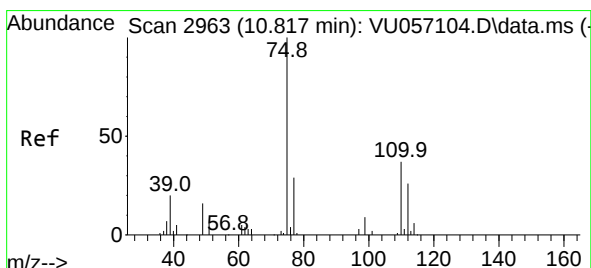
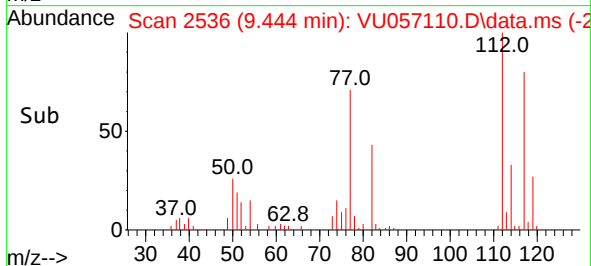
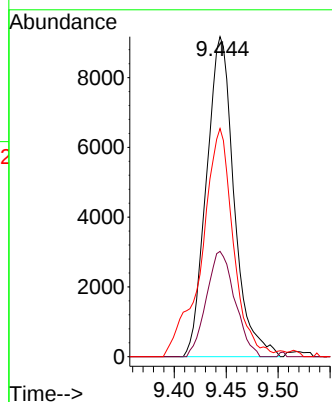


#51
Chlorobenzene
Concen: 0.381 ug/L
RT: 9.444 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU057110.D
Acq: 20 Dec 2023 22:55

Instrument :
MSVOA_U
ClientSampleId :

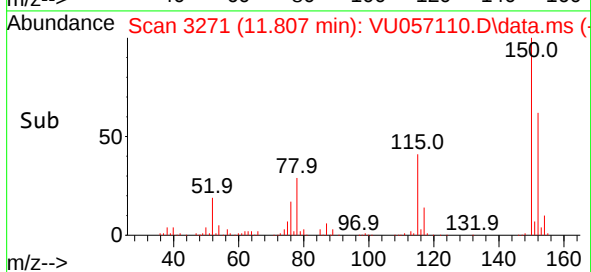
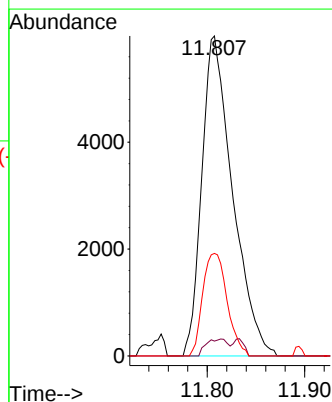
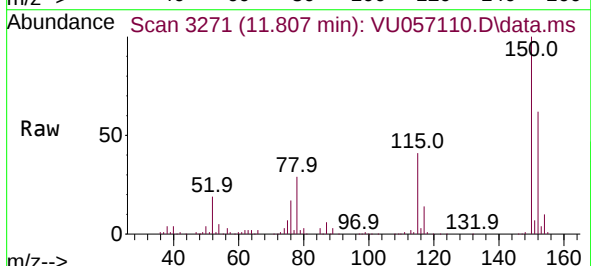


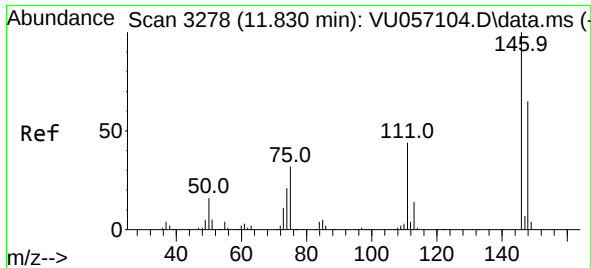
Tgt Ion:112 Resp: 16974
Ion Ratio Lower Upper
112 100
114 32.9 21.9 40.7
77 71.3 51.6 77.4



#61
1,2,3-Trichloropropane
Concen: 1.409 ug/L
RT: 11.807 min Scan# 3271
Delta R.T. 0.990 min
Lab File: VU057110.D
Acq: 20 Dec 2023 22:55

Tgt Ion: 75 Resp: 13144
Ion Ratio Lower Upper
75 100
110 3.7 28.4 42.6#
77 25.4 26.3 39.5#

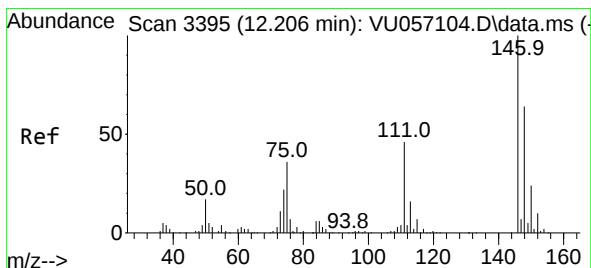
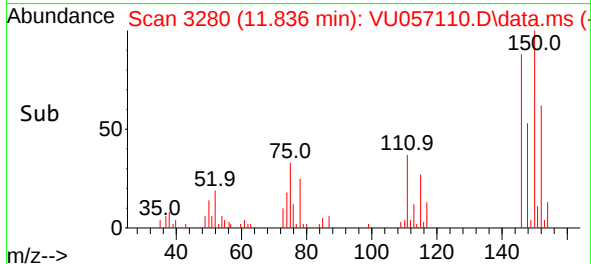
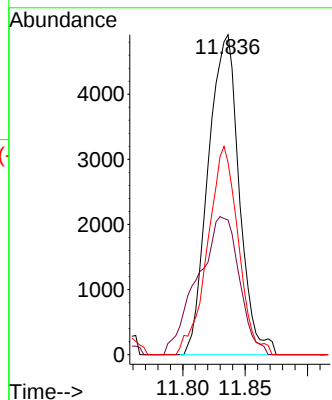
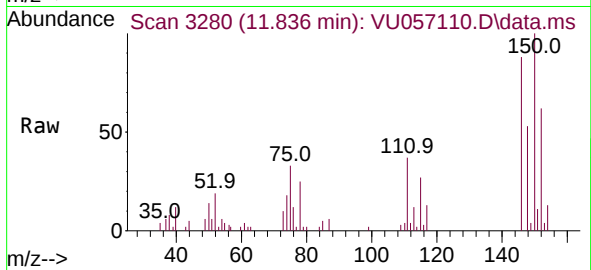




#65
1,4-Dichlorobenzene
Concen: 0.266 ug/L
RT: 11.836 min Scan# 31
Delta R.T. 0.006 min
Lab File: VU057110.D
Acq: 20 Dec 2023 22:55

Instrument :
MSVOA_U
ClientSampleId :

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

