

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U041423\
 Data File : VU053700.D
 Acq On : 13 Apr 2023 22:39
 Operator : JC/MD
 Sample : 02254-14
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AC5

Quant Time: Apr 14 02:28:23 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR032423WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Apr 14 02:17:15 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	140409	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	134490	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	68536	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.594	65	51901	5.373	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	107.400%
7) Chloroethane-d5	1.909	69	40378	4.606	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.200%
11) 1,1-Dichloroethene-d2	2.562	65	23943	5.819	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	116.400%
20) 2-Butanone-d5	4.623	46	82100	37.102	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	74.200%
24) Chloroform-d	5.060	84	78894	4.406	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.200%
26) 1,2-Dichloroethane-d4	5.700	65	36215	3.946	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	79.000%
32) Benzene-d6	5.726	84	151310	3.970	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	79.400%
36) 1,2-Dichloropropane-d6	6.687	67	46957	4.043	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	80.800%
41) Toluene-d8	7.893	98	142447	3.962	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	79.200%
43) trans-1,3-Dichloroprop...	8.176	79	19076	4.280	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.600%
46) 2-Hexanone-d5	8.629	63	73919	40.833	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	81.660%
56) 1,1,2,2-Tetrachloroeth...	10.751	84	39167	4.052	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	81.000%
66) 1,2-Dichlorobenzene-d4	12.189	152	51912	4.210	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	84.200%
Target Compounds						
					Qvalue	
3) Chloromethane	1.517	50	6438	0.635	ug/L #	66
5) Vinyl chloride	1.601	62	73464	6.427	ug/L #	1
8) Chloroethane	1.928	64	36780	5.536	ug/L #	69
10) 1,1,2-Trichloro-1,2,2-...	2.572	101	81144	9.276	ug/L #	32
14) Carbon disulfide	2.793	76	20850	0.894	ug/L	98
15) Methyl Acetate	2.957	43	2168	0.704	ug/L	95
16) Methylene chloride	3.044	84	7152	0.685	ug/L	91
19) 1,1-Dichloroethane	3.867	63	23227802	1526.984	ug/L	95
21) 2-Butanone	4.713	43	4287	2.102	ug/L	77
22) cis-1,2-Dichloroethene	4.658	96	3409	0.306	ug/L	88
25) Chloroform	5.089	83	60944	3.895	ug/L	100
27) 1,2-Dichloroethane	5.793	62	77842	7.942	ug/L #	94
31) Carbon tetrachloride	5.350	117	15069304	1341.307	ug/L	99
33) Benzene	5.771	78	4469	0.124	ug/L	100
34) Trichloroethene	6.539	95	1039716	108.346	ug/L	94
35) Methylcyclohexane	6.687	83	10899	0.662	ug/L #	22
42) Toluene	7.967	91	8585	0.218	ug/L	90
45) 1,1,2-Trichloroethane	8.398	97	6341	0.939	ug/L #	84
47) Tetrachloroethene	8.549	164	23807	3.376	ug/L	91

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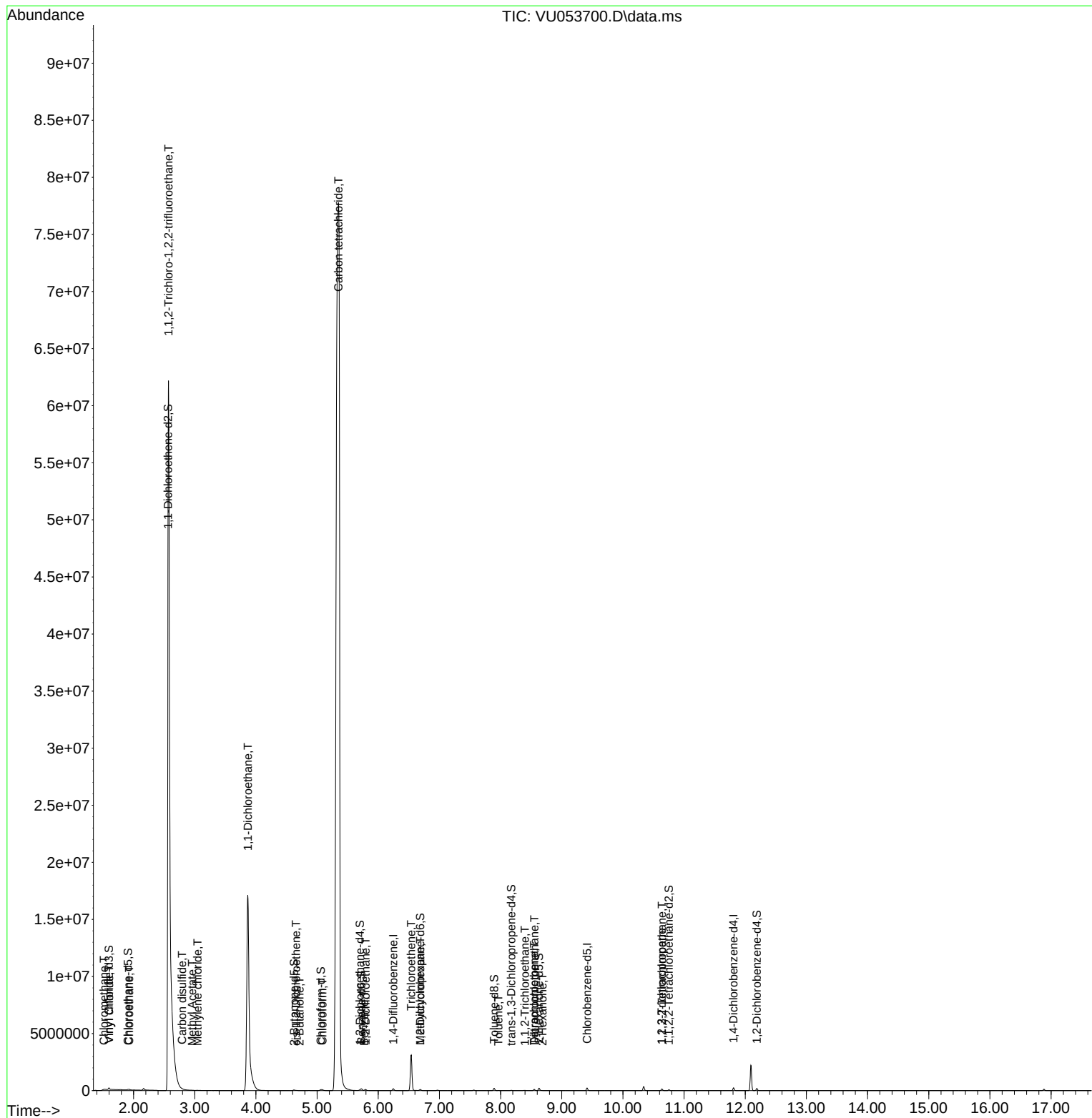
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.687	43	2804	0.814	ug/L #	92
49) Dibromochloromethane	8.552	129	23026	3.447	ug/L #	12
57) 1,1,2,2-Tetrachloroethane	10.639	83	6615	0.775	ug/L #	94
61) 1,2,3-Trichloropropane	10.636	75	3041	0.536	ug/L #	1

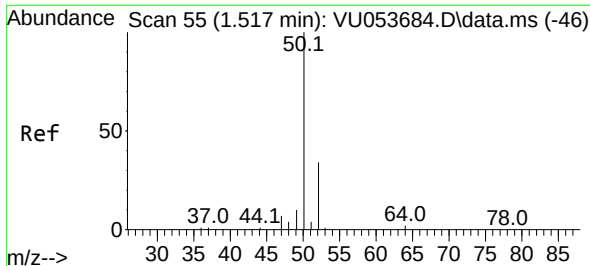
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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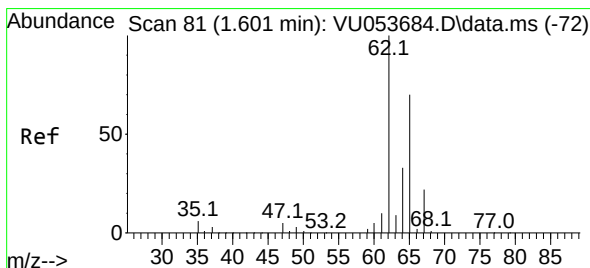
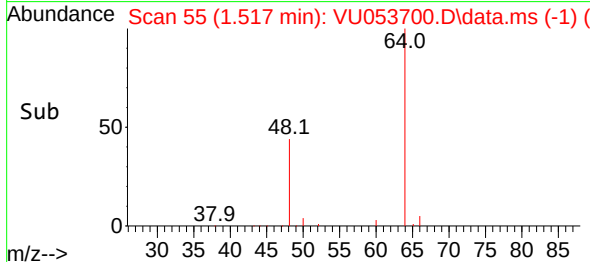
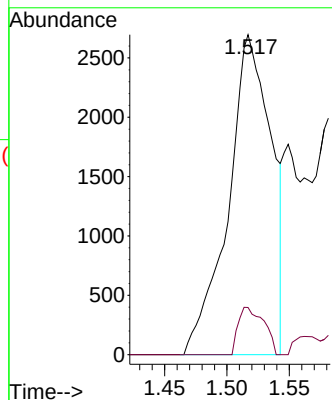
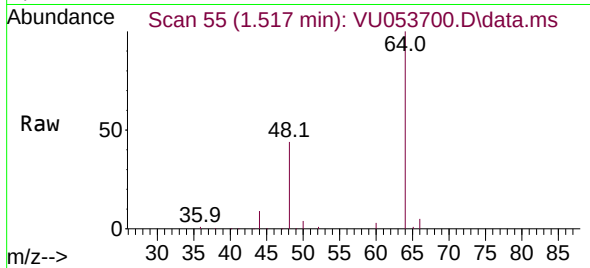




#3
Chloromethane
Concen: 0.635 ug/L
RT: 1.517 min Scan# 51
Delta R.T. -0.000 min
Lab File: VU053700.D
Acq: 13 Apr 2023 22:39

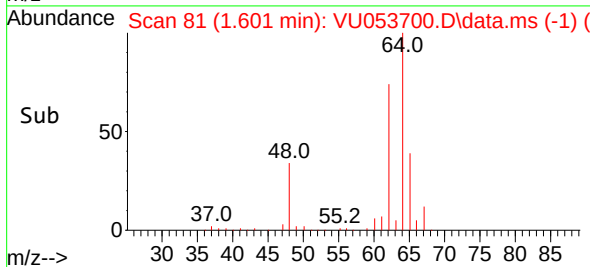
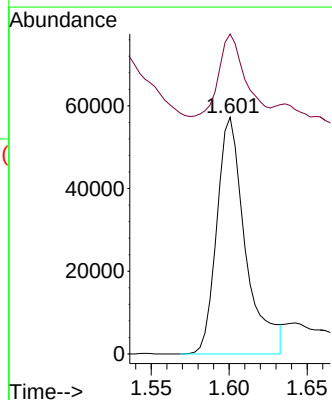
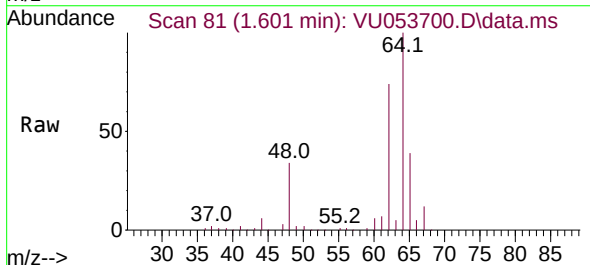
Instrument :
MSVOA_U
ClientSampleId :
C0AC5

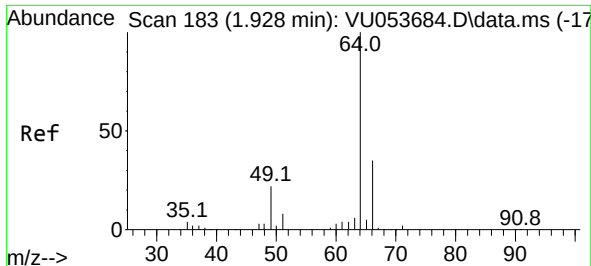
Tgt Ion: 50 Resp: 6438
Ion Ratio Lower Upper
50 100
52 14.8 23.9 44.3#



#5
Vinyl chloride
Concen: 6.427 ug/L
RT: 1.601 min Scan# 81
Delta R.T. 0.000 min
Lab File: VU053700.D
Acq: 13 Apr 2023 22:39

Tgt Ion: 62 Resp: 73464
Ion Ratio Lower Upper
62 100
64 135.3 24.1 44.7#

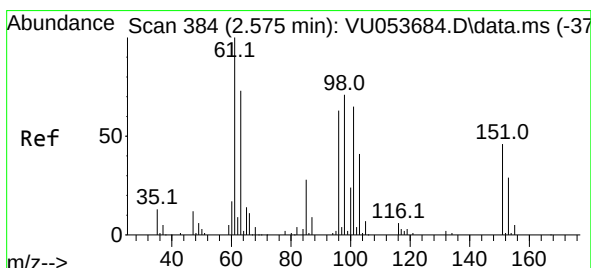
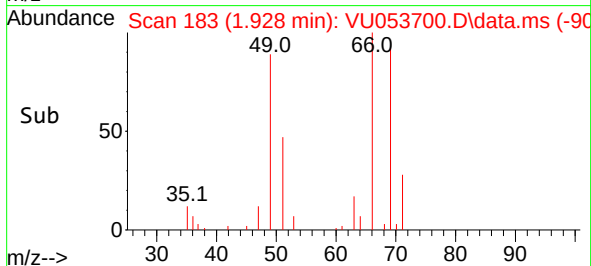
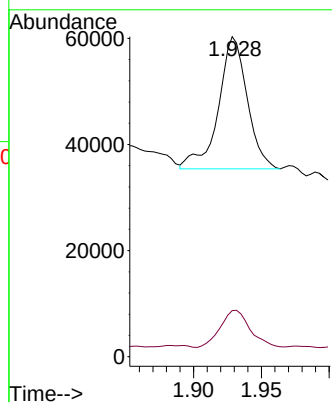
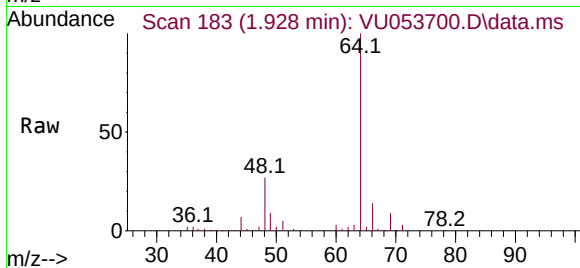




#8
Chloroethane
Concen: 5.536 ug/L
RT: 1.928 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU053700.D
Acq: 13 Apr 2023 22:39

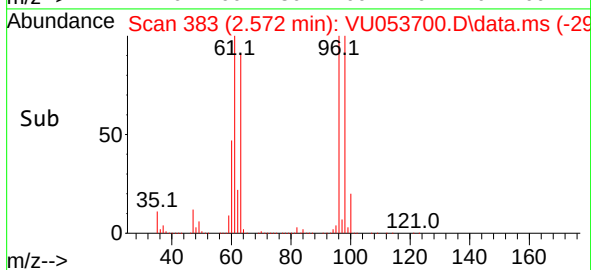
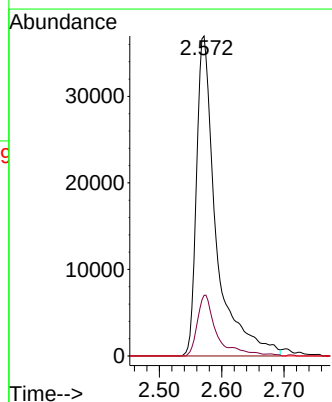
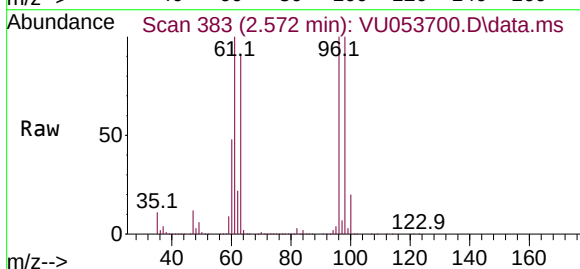
Instrument :
MSVOA_U
ClientSampleId :
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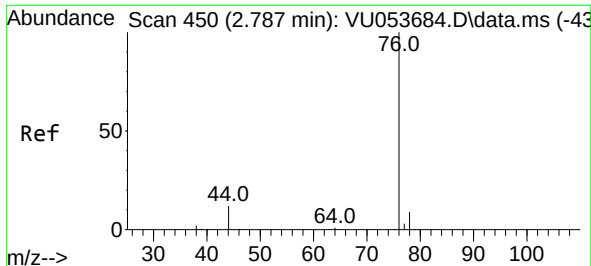
Tgt Ion: 64 Resp: 36780
Ion Ratio Lower Upper
64 100
66 14.4 22.3 41.5#



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 9.276 ug/L
RT: 2.572 min Scan# 383
Delta R.T. -0.003 min
Lab File: VU053700.D
Acq: 13 Apr 2023 22:39

Tgt Ion:101 Resp: 81144
Ion Ratio Lower Upper
101 100
85 18.6 37.0 55.4#
151 0.0 56.8 85.2#

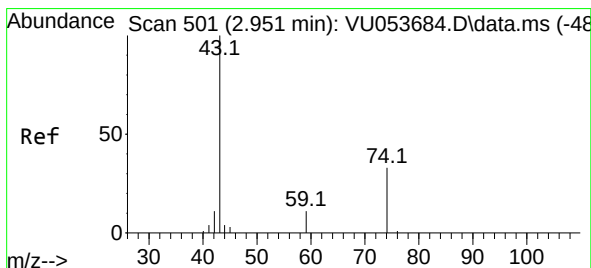
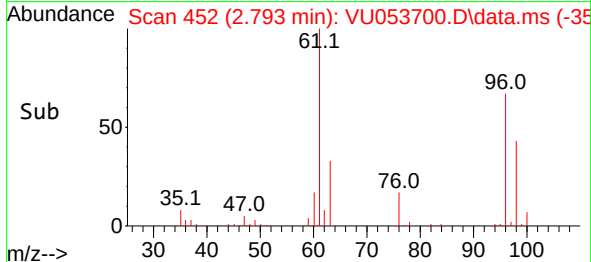
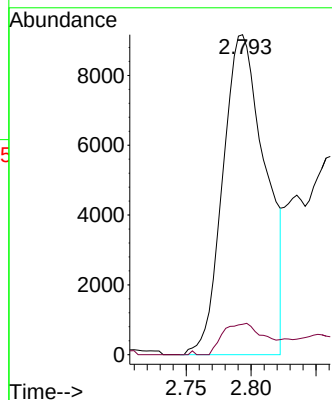
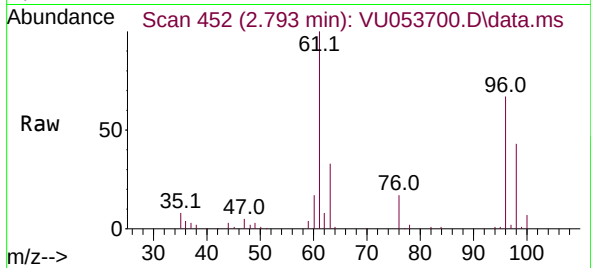




#14
Carbon disulfide
Concen: 0.894 ug/L
RT: 2.793 min Scan# 41
Delta R.T. 0.006 min
Lab File: VU053700.D
Acq: 13 Apr 2023 22:39

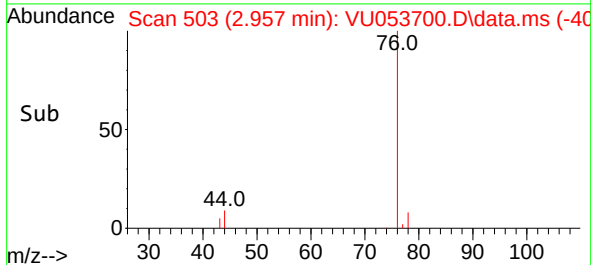
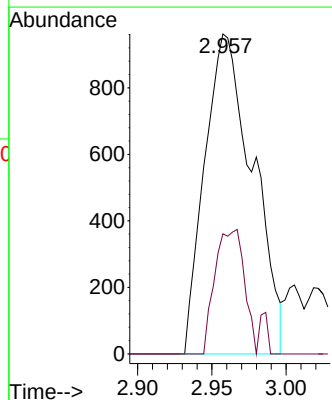
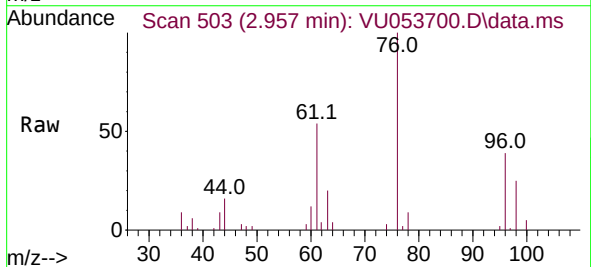
Instrument :
MSVOA_U
ClientSampleId :
C0AC5

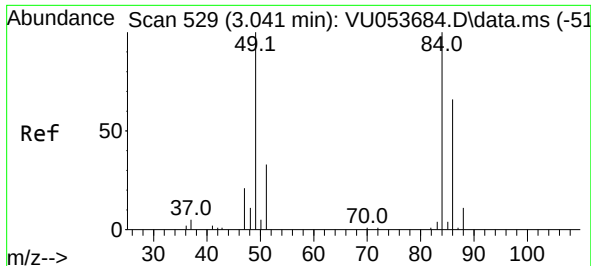
Tgt Ion: 76 Resp: 20850
Ion Ratio Lower Upper
76 100
78 9.5 7.0 10.4



#15
Methyl Acetate
Concen: 0.704 ug/L
RT: 2.957 min Scan# 503
Delta R.T. 0.006 min
Lab File: VU053700.D
Acq: 13 Apr 2023 22:39

Tgt Ion: 43 Resp: 2168
Ion Ratio Lower Upper
43 100
74 23.7 20.8 31.2

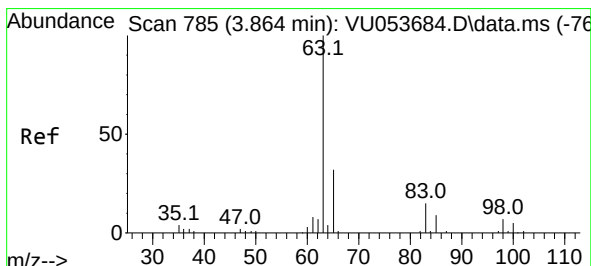
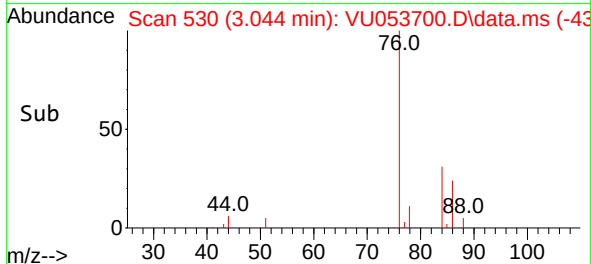
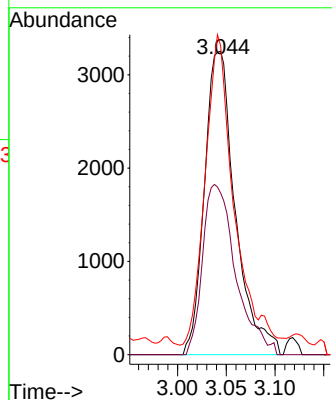
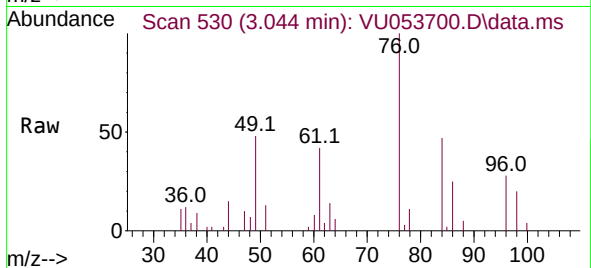




#16
Methylene chloride
Concen: 0.685 ug/L
RT: 3.044 min Scan# 51
Delta R.T. 0.003 min
Lab File: VU053700.D
Acq: 13 Apr 2023 22:39

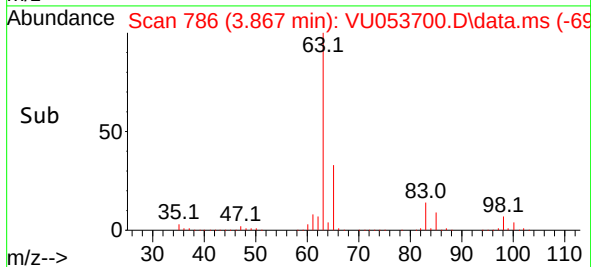
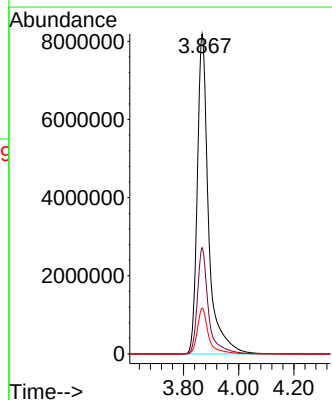
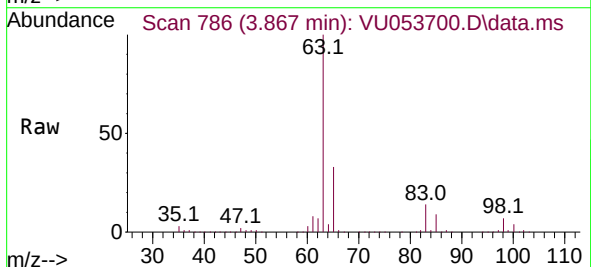
Instrument :
MSVOA_U
ClientSampleId :
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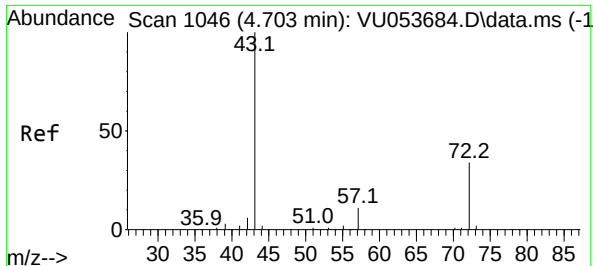
Tgt Ion: 84 Resp: 7152
Ion Ratio Lower Upper
84 100
86 53.2 44.7 83.1
49 101.7 75.5 140.1



#19
1,1-Dichloroethane
Concen: 1526.984 ug/L
RT: 3.867 min Scan# 786
Delta R.T. 0.003 min
Lab File: VU053700.D
Acq: 13 Apr 2023 22:39

Tgt Ion: 63 Resp: 23227802
Ion Ratio Lower Upper
63 100
65 33.2 21.7 40.3
83 14.3 8.1 15.1





#21

2-Butanone

Concen: 2.102 ug/L

RT: 4.713 min Scan# 1049

Delta R.T. 0.010 min

Lab File: VU053700.D

Acq: 13 Apr 2023 22:39

Instrument :

MSVOA_U

ClientSampleId :

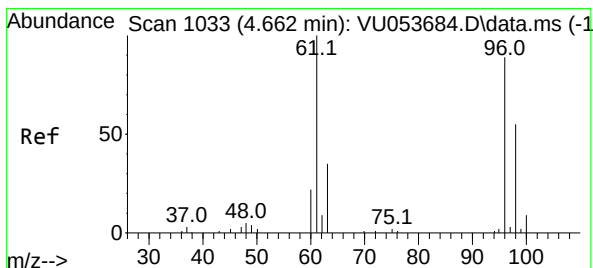
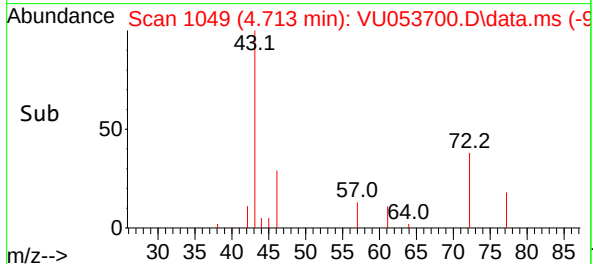
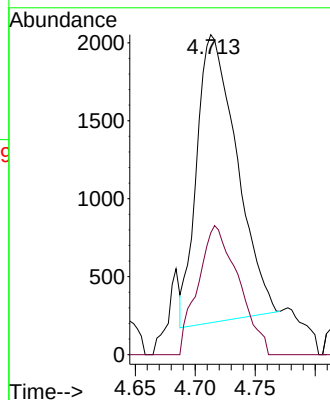
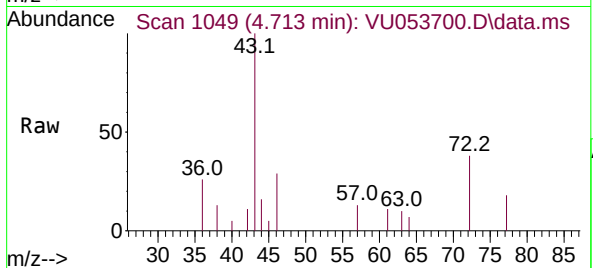
C0AC5

Tgt Ion: 43 Resp: 4287

Ion Ratio Lower Upper

43 100

72 45.4 16.2 48.6



#22

cis-1,2-Dichloroethene

Concen: 0.306 ug/L

RT: 4.658 min Scan# 1032

Delta R.T. -0.003 min

Lab File: VU053700.D

Acq: 13 Apr 2023 22:39

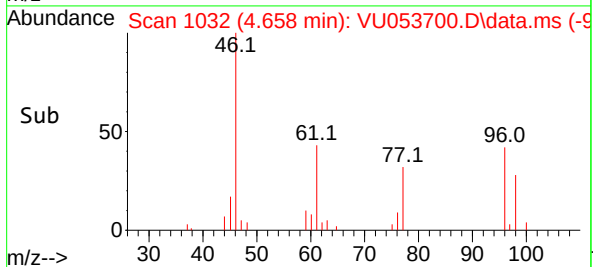
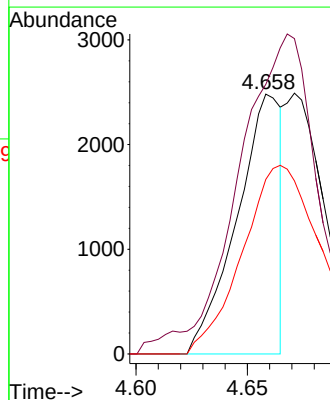
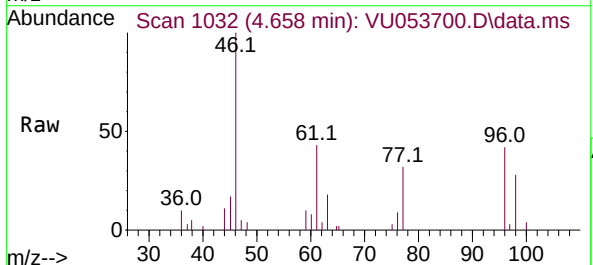
Tgt Ion: 96 Resp: 3409

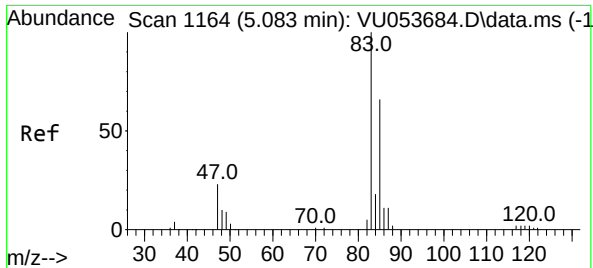
Ion Ratio Lower Upper

96 100

61 103.8 86.6 160.8

98 67.2 47.7 88.5





#25

Chloroform

Concen: 3.895 ug/L

RT: 5.089 min Scan# 1164

Delta R.T. 0.006 min

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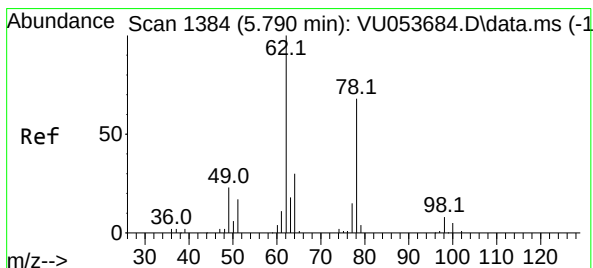
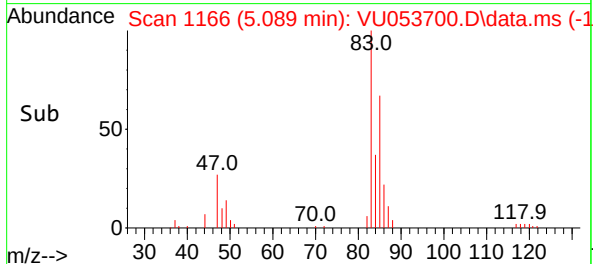
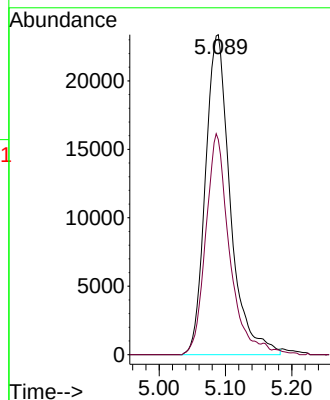
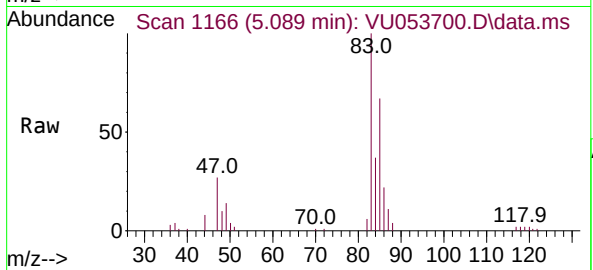
C0AC5

Tgt Ion: 83 Resp: 60944

Ion Ratio Lower Upper

83 100

85 67.3 47.3 87.9



#27

1,2-Dichloroethane

Concen: 7.942 ug/L

RT: 5.793 min Scan# 1385

Delta R.T. 0.003 min

Lab File: VU053700.D

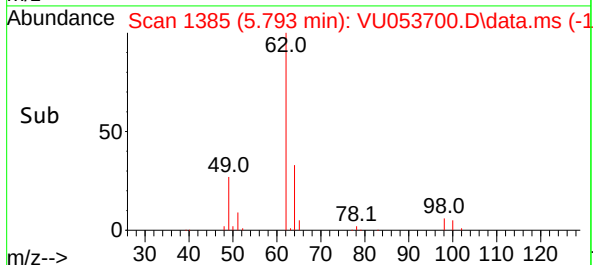
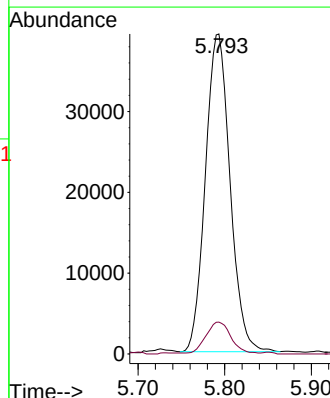
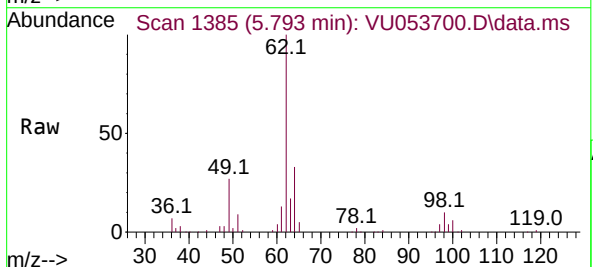
Acq: 13 Apr 2023 22:39

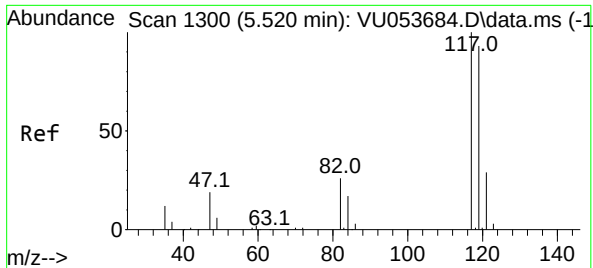
Tgt Ion: 62 Resp: 77842

Ion Ratio Lower Upper

62 100

98 10.0 6.4 9.6#

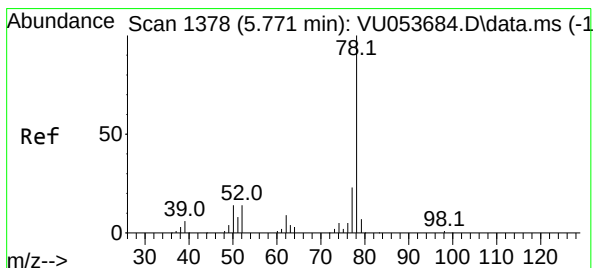
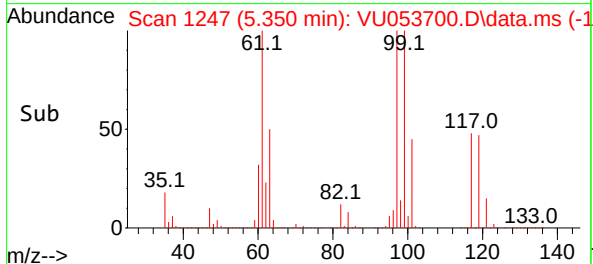
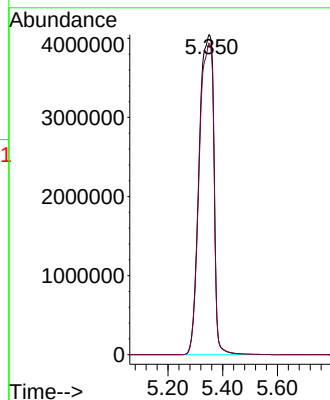
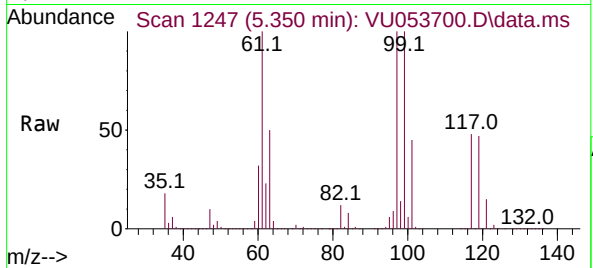




#31
Carbon tetrachloride
Concen: 1341.307 ug/L
RT: 5.350 min Scan# 117
Delta R.T. -0.170 min
Lab File: VU053700.D
Acq: 13 Apr 2023 22:39

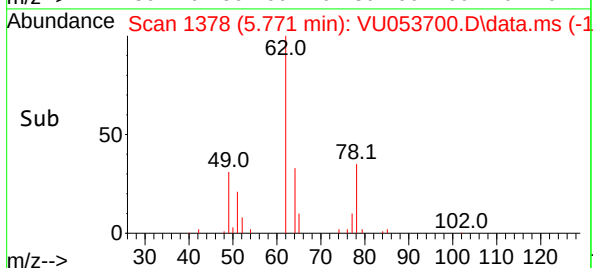
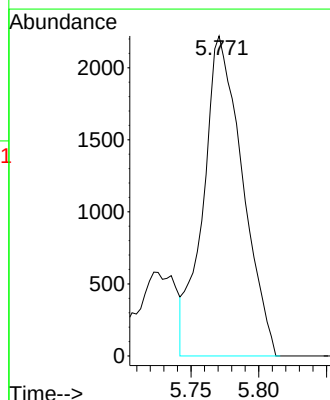
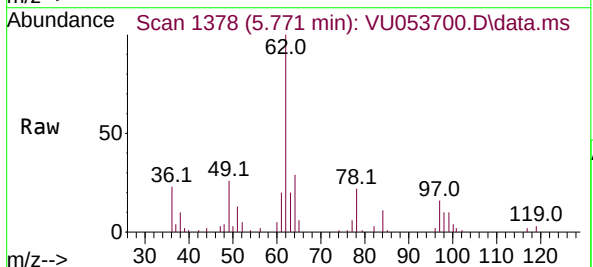
Instrument :
MSVOA_U
ClientSampleId :
C0AC5

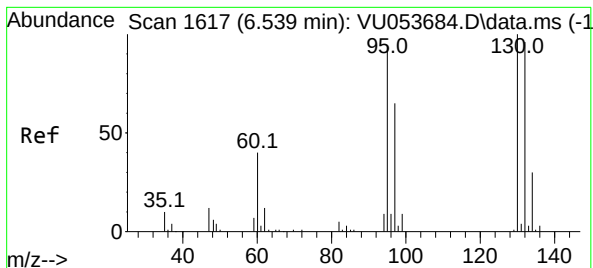
Tgt Ion:117 Resp:15069304
Ion Ratio Lower Upper
117 100
119 96.6 77.7 116.5



#33
Benzene
Concen: 0.124 ug/L
RT: 5.771 min Scan# 1378
Delta R.T. -0.000 min
Lab File: VU053700.D
Acq: 13 Apr 2023 22:39

Tgt Ion: 78 Resp: 4469





#34

Trichloroethene

Concen: 108.346 ug/L

RT: 6.539 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU053700.D

Acq: 13 Apr 2023 22:39

Instrument :

MSVOA_U

ClientSampleId :

C0AC5

Tgt Ion: 95 Resp: 1039716

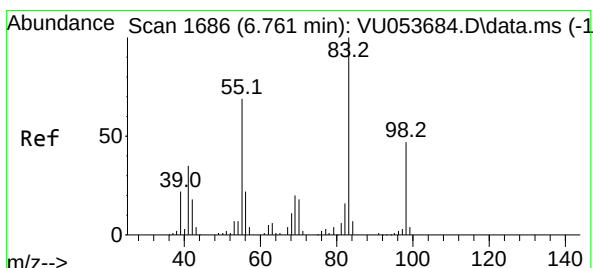
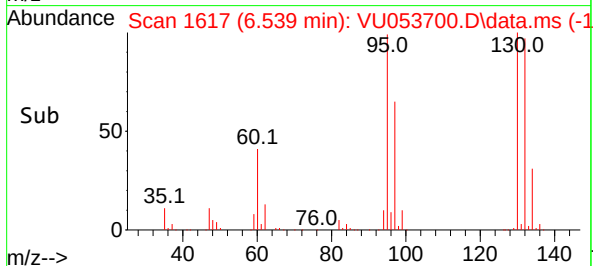
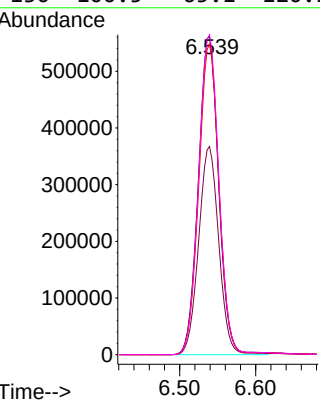
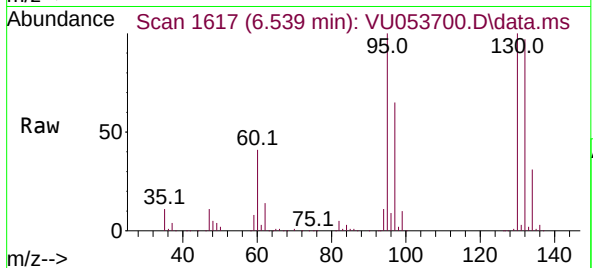
Ion Ratio Lower Upper

95 100

97 65.4 45.3 84.1

132 97.6 62.8 116.6

130 100.5 65.1 120.9



#35

Methylcyclohexane

Concen: 0.662 ug/L

RT: 6.687 min Scan# 1663

Delta R.T. -0.074 min

Lab File: VU053700.D

Acq: 13 Apr 2023 22:39

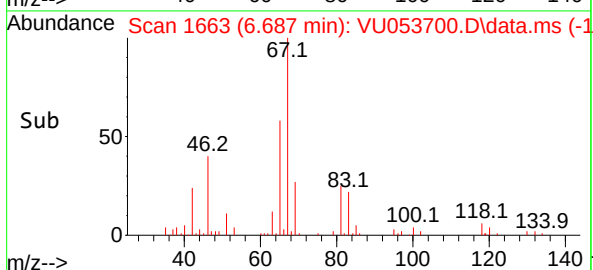
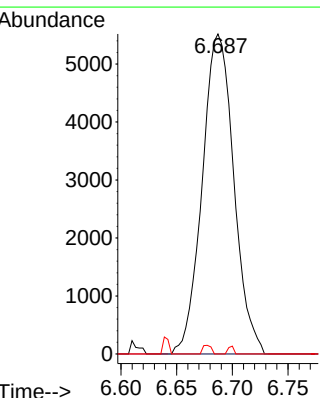
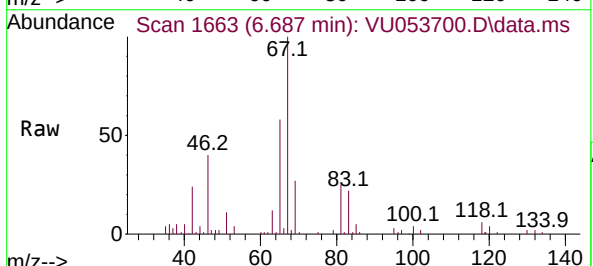
Tgt Ion: 83 Resp: 10899

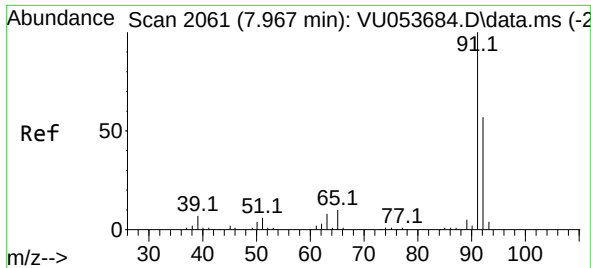
Ion Ratio Lower Upper

83 100

55 0.4 54.9 82.3#

98 0.0 34.9 52.3#





#42

Toluene

Concen: 0.218 ug/L

RT: 7.967 min Scan# 2061

Delta R.T. -0.000 min

Lab File: VU053700.D

Acq: 13 Apr 2023 22:39

Instrument :

MSVOA_U

ClientSampleId :

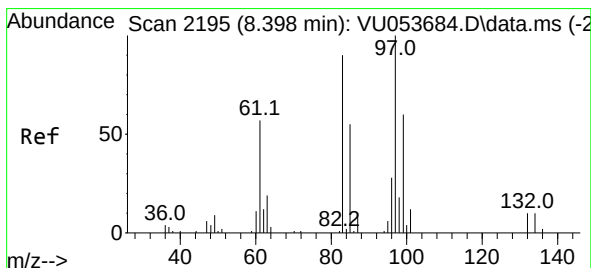
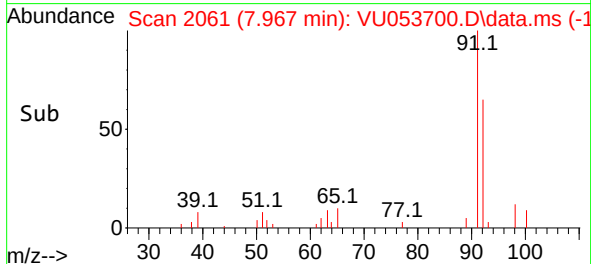
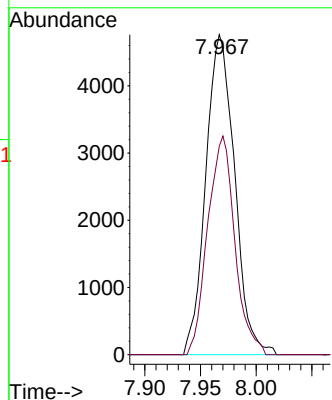
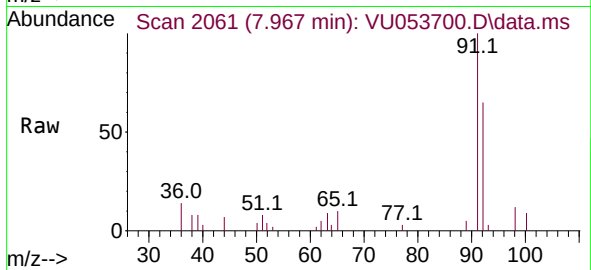
C0AC5

Tgt Ion: 91 Resp: 8585

Ion Ratio Lower Upper

91 100

92 65.1 40.4 75.0



#45

1,1,2-Trichloroethane

Concen: 0.939 ug/L

RT: 8.398 min Scan# 2195

Delta R.T. -0.000 min

Lab File: VU053700.D

Acq: 13 Apr 2023 22:39

Tgt Ion: 97 Resp: 6341

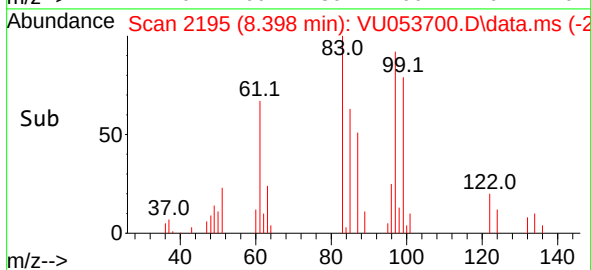
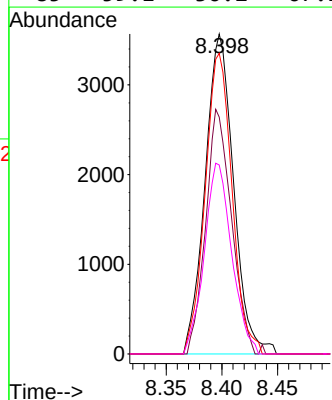
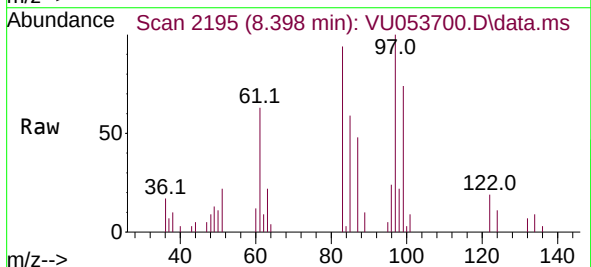
Ion Ratio Lower Upper

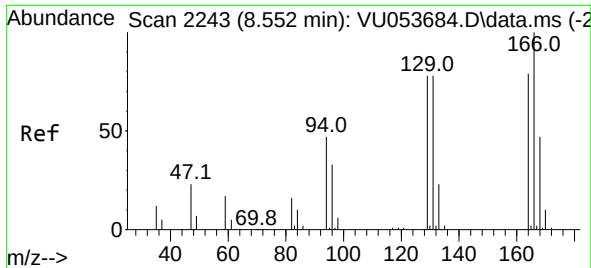
97 100

99 74.0 38.9 72.2#

83 93.9 57.6 107.0

85 59.1 36.2 67.2

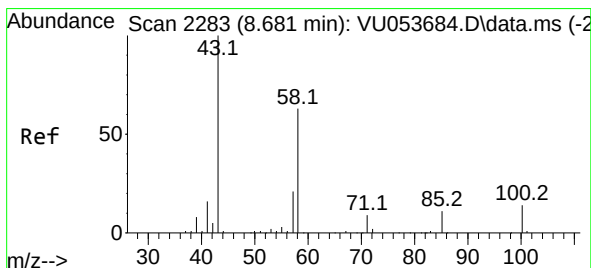
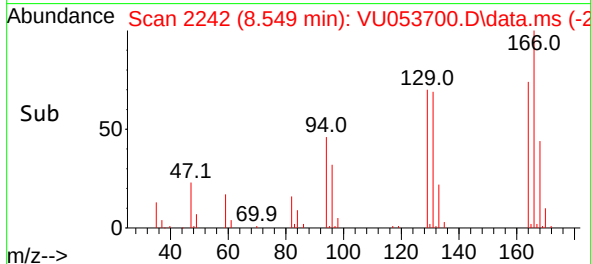
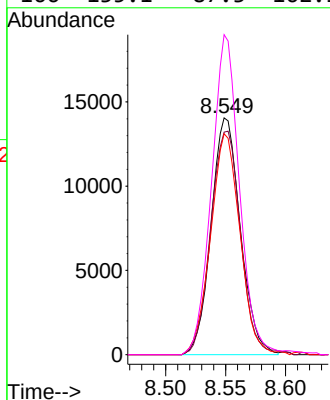
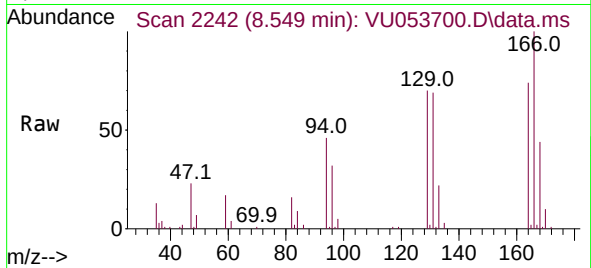




#47
Tetrachloroethene
Concen: 3.376 ug/L
RT: 8.549 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU053700.D
Acq: 13 Apr 2023 22:39

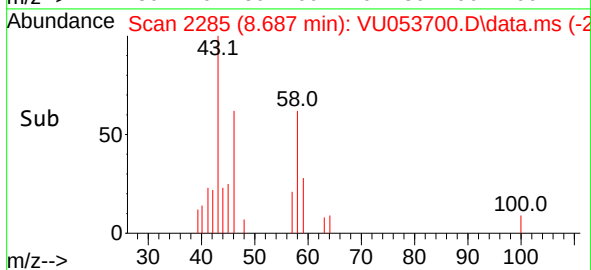
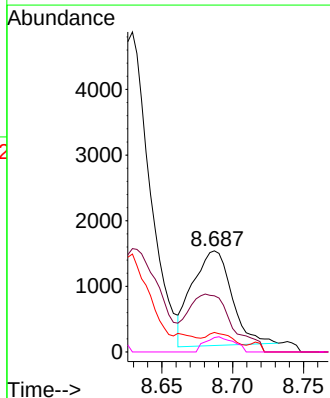
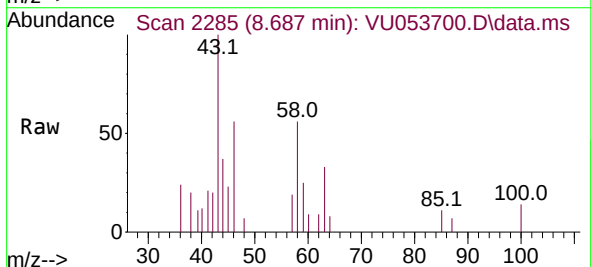
Instrument :
MSVOA_U
ClientSampleId :
C0AC5

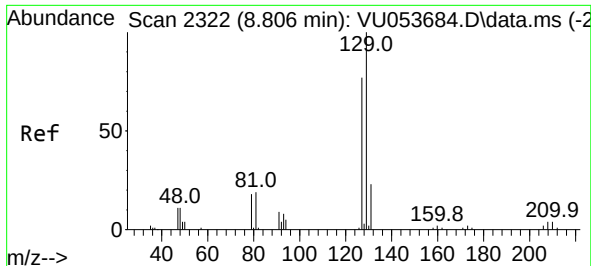
Tgt Ion:164 Resp: 23807
Ion Ratio Lower Upper
164 100
129 94.0 74.8 138.8
131 93.3 70.1 130.1
166 135.1 87.3 162.1



#48
2-Hexanone
Concen: 0.814 ug/L
RT: 8.687 min Scan# 2285
Delta R.T. 0.006 min
Lab File: VU053700.D
Acq: 13 Apr 2023 22:39

Tgt Ion: 43 Resp: 2804
Ion Ratio Lower Upper
43 100
58 67.7 52.8 79.2
57 8.9 17.1 25.7#
100 11.6 10.8 16.2





#49

Dibromochloromethane

Concen: 3.447 ug/L

RT: 8.552 min Scan# 21

Delta R.T. -0.254 min

Lab File: VU053700.D

Acq: 13 Apr 2023 22:39

Instrument :

MSVOA_U

ClientSampleId :

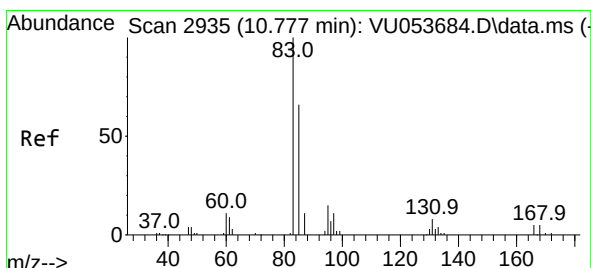
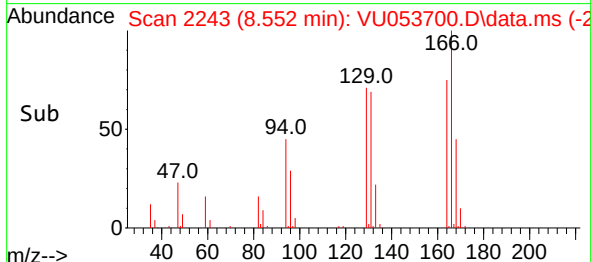
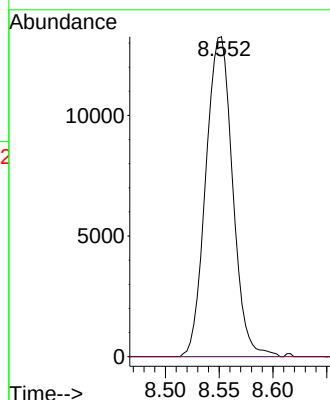
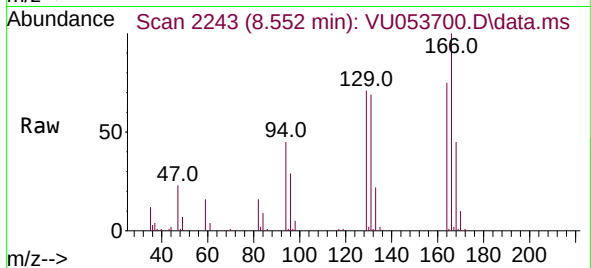
C0AC5

Tgt Ion:129 Resp: 23026

Ion Ratio Lower Upper

129 100

127 0.0 52.2 97.0#



#57

1,1,2,2-Tetrachloroethane

Concen: 0.775 ug/L

RT: 10.639 min Scan# 2892

Delta R.T. -0.138 min

Lab File: VU053700.D

Acq: 13 Apr 2023 22:39

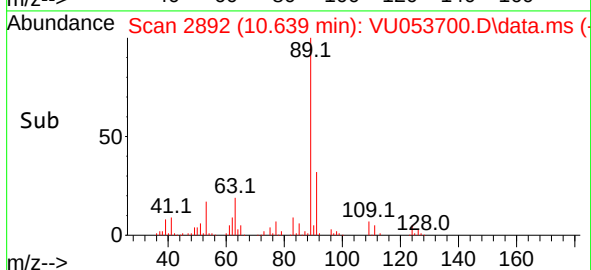
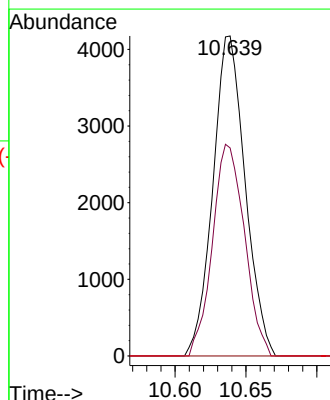
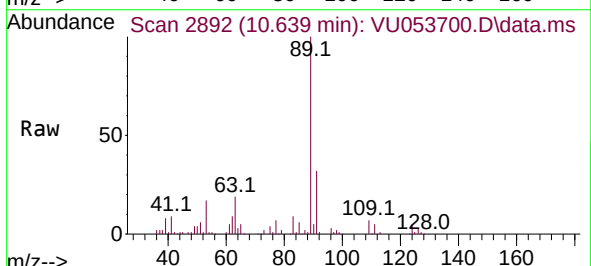
Tgt Ion: 83 Resp: 6615

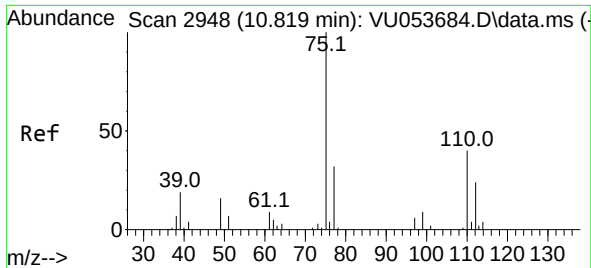
Ion Ratio Lower Upper

83 100

85 65.0 43.8 81.4

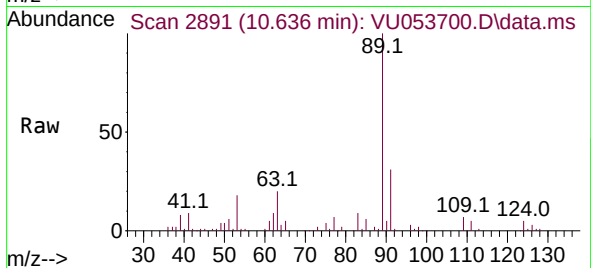
131 0.0 7.2 10.8#





#61
 1,2,3-Trichloropropane
 Concen: 0.536 ug/L
 RT: 10.636 min Scan# 21
 Delta R.T. -0.183 min
 Lab File: VU053700.D
 Acq: 13 Apr 2023 22:39

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AC5



Tgt Ion:	75	Resp:	3041
Ion	Ratio	Lower	Upper
75	100		
110	3.8	30.6	46.0#
77	181.1	26.1	39.1#

