

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U042823\
 Data File : VU053959.D
 Acq On : 28 Apr 2023 00:54
 Operator : JC/MD
 Sample : 02525-09
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 HOA39

Quant Time: Apr 28 07:22:44 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR042423WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Apr 27 05:52:18 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	140511	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	133427	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.806	152	65076	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	27615	3.226	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	64.600%
7) Chloroethane-d5	1.912	69	25981	3.617	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	72.400%
11) 1,1-Dichloroethene-d2	2.565	65	13314	3.780	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	75.600%
20) 2-Butanone-d5	4.645	46	69775	44.512	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	89.020%
24) Chloroform-d	5.060	84	82591	5.121	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.400%
26) 1,2-Dichloroethane-d4	5.697	65	31338	4.205	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.000%
32) Benzene-d6	5.723	84	129332	4.115	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.200%
36) 1,2-Dichloropropane-d6	6.687	67	41741	4.390	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.800%
41) Toluene-d8	7.896	98	114110	3.890	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	77.800%
43) trans-1,3-Dichloroprop...	8.176	79	14587	3.901	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	78.000%
46) 2-Hexanone-d5	8.632	63	64062	48.404	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.800%
56) 1,1,2,2-Tetrachloroeth...	10.751	84	33494	4.359	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	87.200%
66) 1,2-Dichlorobenzene-d4	12.189	152	42477	4.070	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	81.400%
Target Compounds						
					Qvalue	
3) Chloromethane	1.520	50	2485	0.245	ug/L	99
6) Bromomethane	1.858	94	2866	0.377	ug/L	91
8) Chloroethane	1.935	64	1575	0.216	ug/L	90
12) 1,1-Dichloroethene	2.578	96	250307	28.322	ug/L #	79
13) Acetone	2.678	43	11335	8.917	ug/L	67
14) Carbon disulfide	2.790	76	4112	0.170	ug/L	97
15) Methyl Acetate	2.826	43	720	0.262	ug/L #	47
16) Methylene chloride	3.044	84	6991	0.580	ug/L	91
18) trans-1,2-Dichloroethene	3.346	96	2749	0.308	ug/L	87
19) 1,1-Dichloroethane	3.864	63	162326	10.043	ug/L	96
22) cis-1,2-Dichloroethene	4.662	96	54126	5.372	ug/L	97
25) Chloroform	5.083	83	404916	23.068	ug/L	100
27) 1,2-Dichloroethane	5.800	62	4282	0.426	ug/L #	92
29) 1,1,1-Trichloroethane	5.311	97	446183	29.747	ug/L	98
31) Carbon tetrachloride	5.520	117	6937	0.532	ug/L	90
33) Benzene	5.774	78	13876	0.369	ug/L	100
34) Trichloroethene	6.536	95	2179831	212.695	ug/L	99
35) Methylcyclohexane	6.687	83	10180	0.643	ug/L #	22
37) 1,2-Dichloropropane	6.690	63	3962	0.425	ug/L #	87

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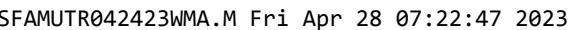
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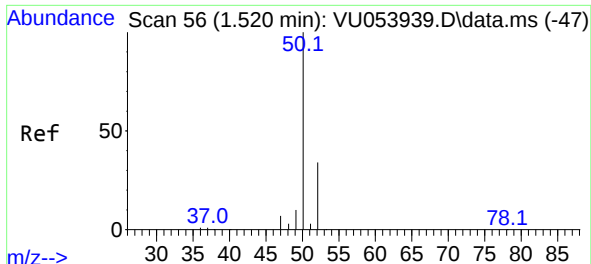
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

38) Bromodichloromethane	7.105	83	3138	0.269	ug/L #	84
45) 1,1,2-Trichloroethane	8.398	97	5581	0.798	ug/L	95
47) Tetrachloroethene	8.562	164	12769294	1571.992	ug/L	94
48) 2-Hexanone	8.681	43	1958	0.612	ug/L #	94
49) Dibromochloromethane	8.562	129	12794103	1727.690	ug/L #	10
54) o-Xylene	10.102	106	3487	0.215	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.777	83	2555	0.306	ug/L	85
61) 1,2,3-Trichloropropane	11.742	75	5216	1.039	ug/L #	50
64) 1,3-Dichlorobenzene	11.742	146	18809	0.962	ug/L	94
65) 1,4-Dichlorobenzene	11.832	146	34429	1.742	ug/L	96
67) 1,2-Dichlorobenzene	12.208	146	145447	8.054	ug/L	98

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

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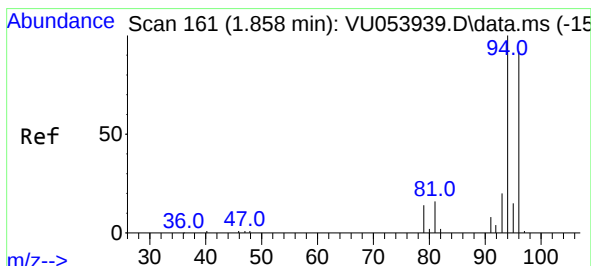
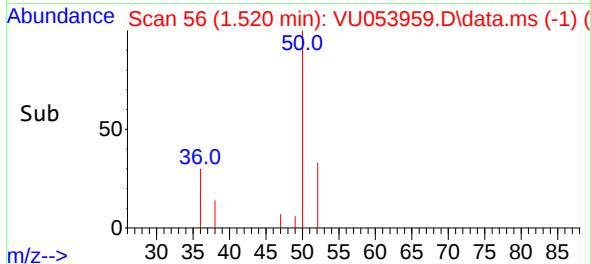
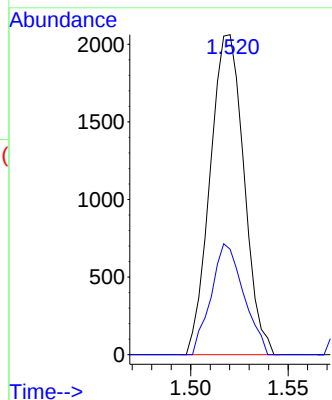
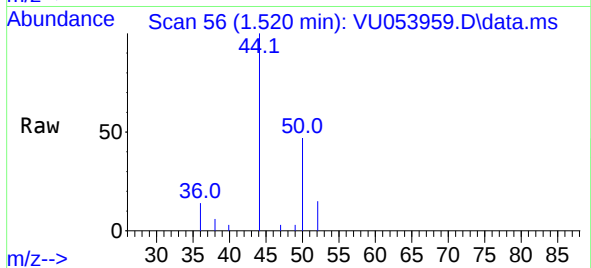




#3
Chloromethane
Concen: 0.245 ug/L
RT: 1.520 min Scan# 50
Delta R.T. 0.000 min
Lab File: VU053959.D
Acq: 28 Apr 2023 00:54

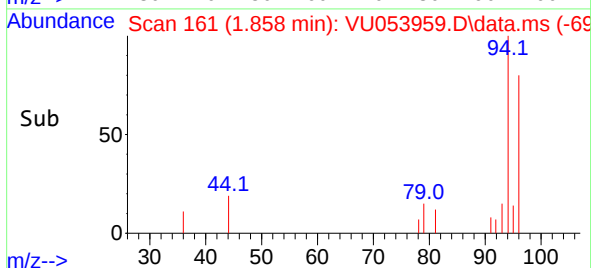
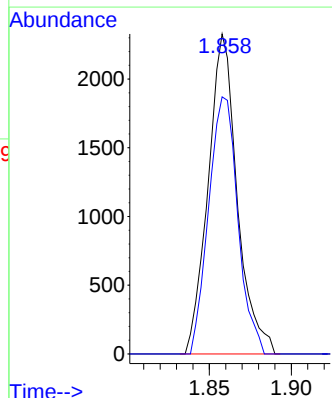
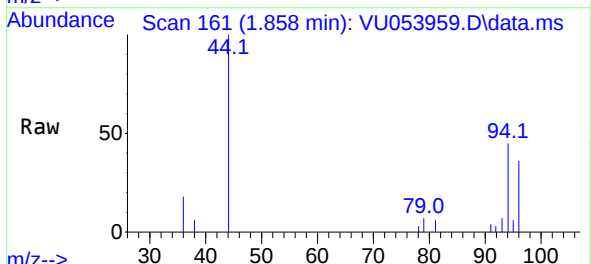
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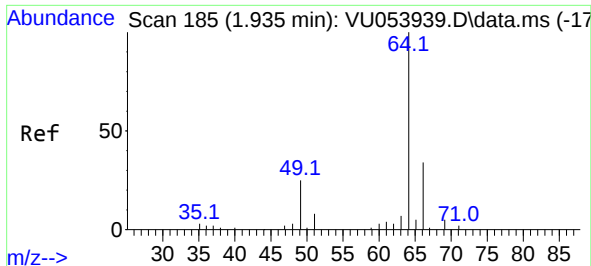
Tgt Ion: 50 Resp: 2485
Ion Ratio Lower Upper
50 100
52 32.9 23.4 43.6



#6
Bromomethane
Concen: 0.377 ug/L
RT: 1.858 min Scan# 161
Delta R.T. -0.003 min
Lab File: VU053959.D
Acq: 28 Apr 2023 00:54

Tgt Ion: 94 Resp: 2866
Ion Ratio Lower Upper
94 100
96 80.3 61.9 114.9

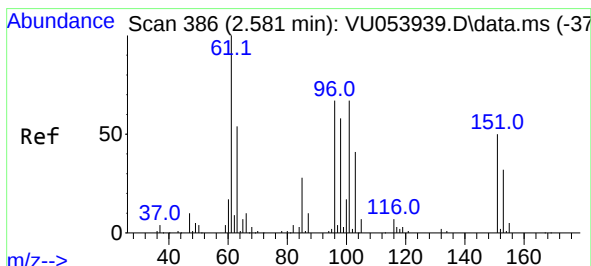
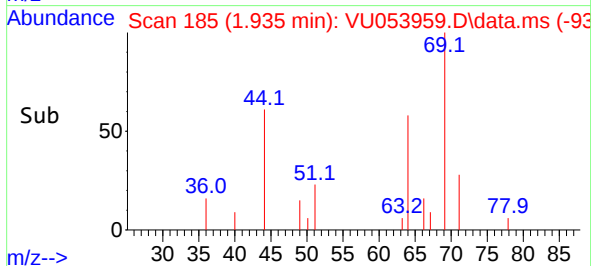
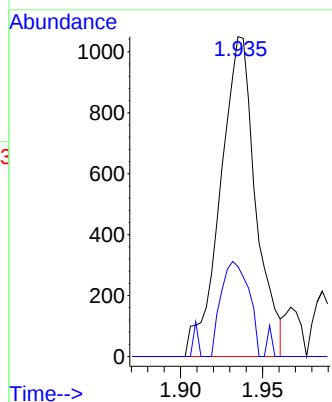
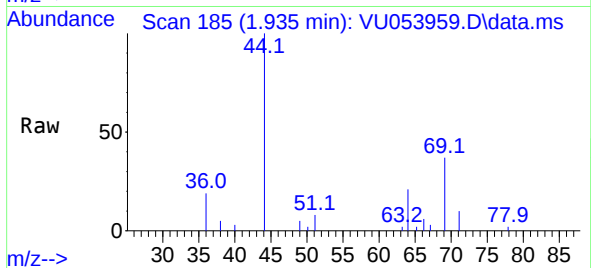




#8
Chloroethane
Concen: 0.216 ug/L
RT: 1.935 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU053959.D
Acq: 28 Apr 2023 00:54

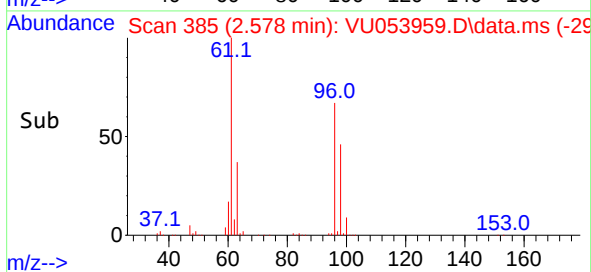
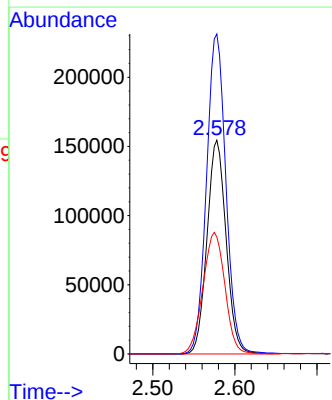
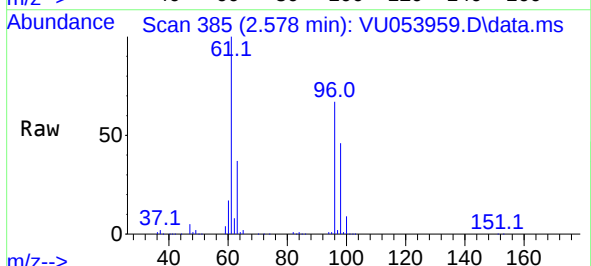
Instrument :
MSVOA_U
ClientSampleId :
HOA39

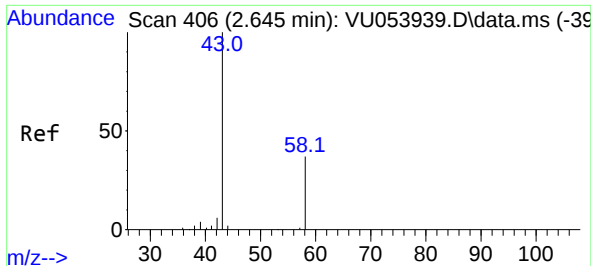
Tgt Ion: 64 Resp: 1575
Ion Ratio Lower Upper
64 100
66 28.2 23.8 44.2



#12
1,1-Dichloroethene
Concen: 28.322 ug/L
RT: 2.578 min Scan# 385
Delta R.T. 0.000 min
Lab File: VU053959.D
Acq: 28 Apr 2023 00:54

Tgt Ion: 96 Resp: 250307
Ion Ratio Lower Upper
96 100
61 149.7 111.5 207.1
63 54.7 68.7 127.7#





#13

Acetone

Concen: 8.917 ug/L

RT: 2.678 min Scan# 41

Delta R.T. 0.016 min

Lab File: VU053959.D

Acq: 28 Apr 2023 00:54

Instrument :

MSVOA_U

ClientSampleId :

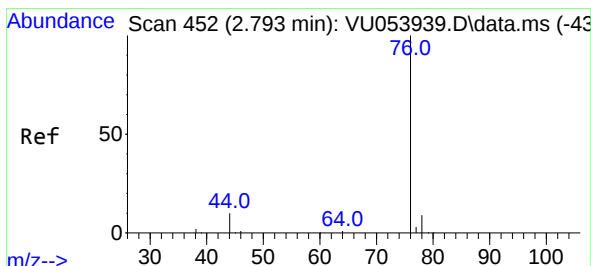
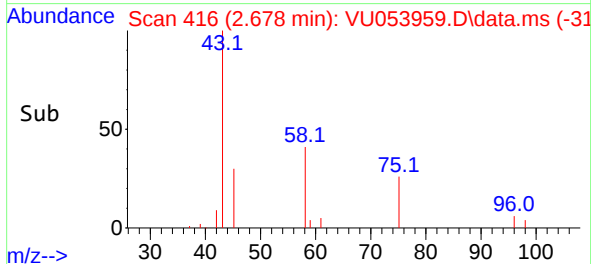
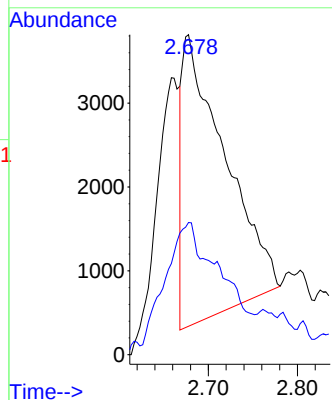
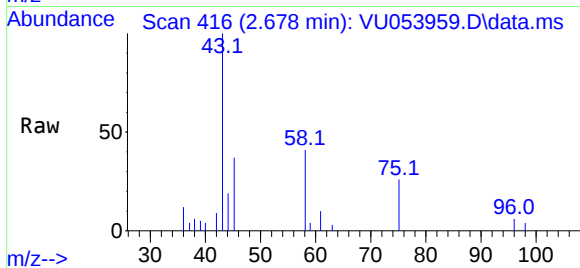
HOA39

Tgt Ion: 43 Resp: 11335

Ion Ratio Lower Upper

43 100

58 58.1 0.0 76.2



#14

Carbon disulfide

Concen: 0.170 ug/L

RT: 2.790 min Scan# 451

Delta R.T. -0.003 min

Lab File: VU053959.D

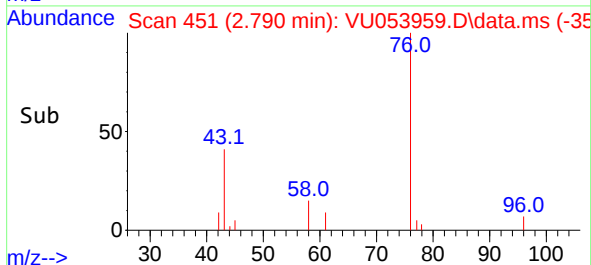
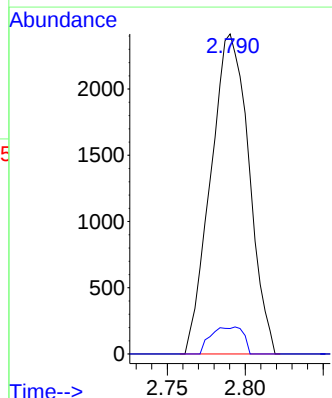
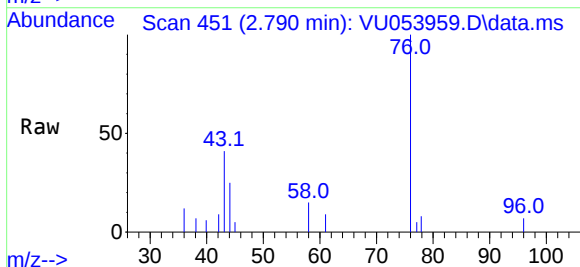
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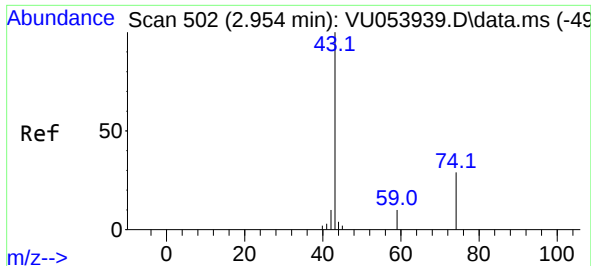
Tgt Ion: 76 Resp: 4112

Ion Ratio Lower Upper

76 100

78 7.9 7.3 10.9

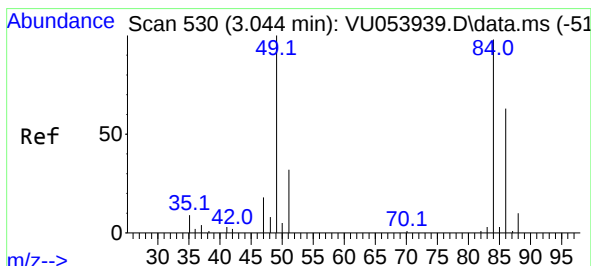
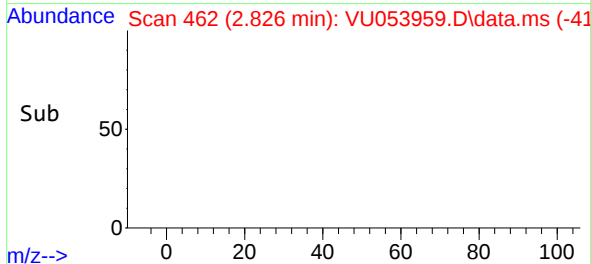
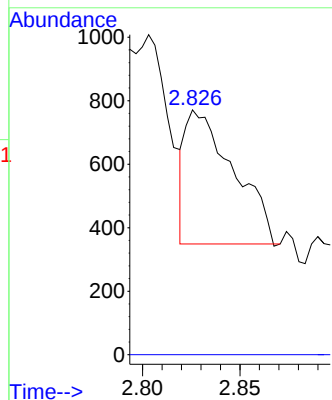
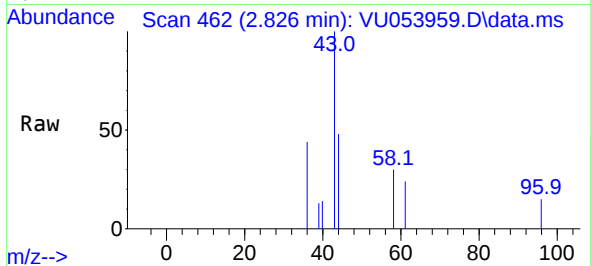




#15
Methyl Acetate
Concen: 0.262 ug/L
RT: 2.826 min Scan# 41
Delta R.T. -0.135 min
Lab File: VU053959.D
Acq: 28 Apr 2023 00:54

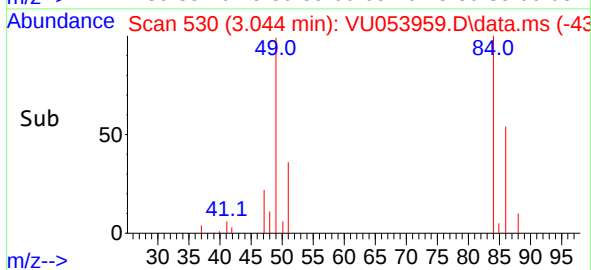
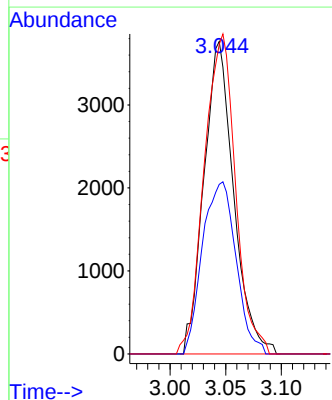
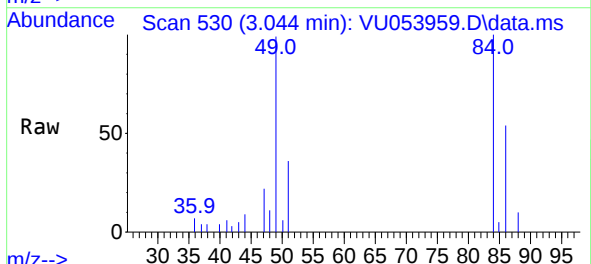
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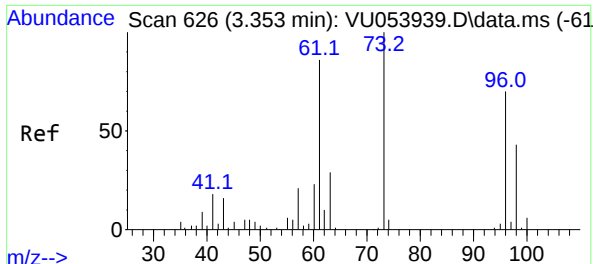
Tgt Ion: 43 Resp: 720
Ion Ratio Lower Upper
43 100
74 0.0 22.0 33.0#



#16
Methylene chloride
Concen: 0.580 ug/L
RT: 3.044 min Scan# 530
Delta R.T. 0.000 min
Lab File: VU053959.D
Acq: 28 Apr 2023 00:54

Tgt Ion: 84 Resp: 6991
Ion Ratio Lower Upper
84 100
86 54.3 45.0 83.6
49 99.1 74.8 138.8

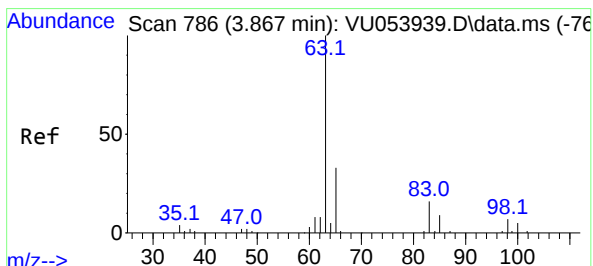
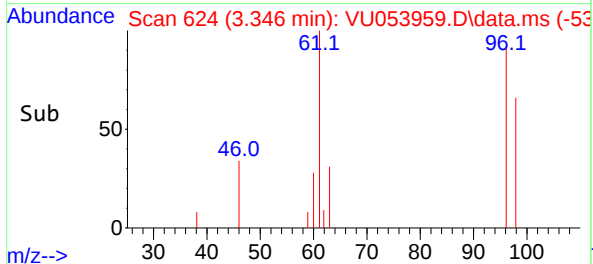
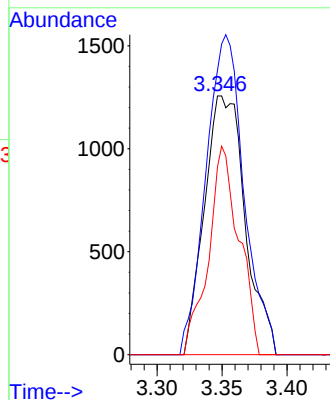
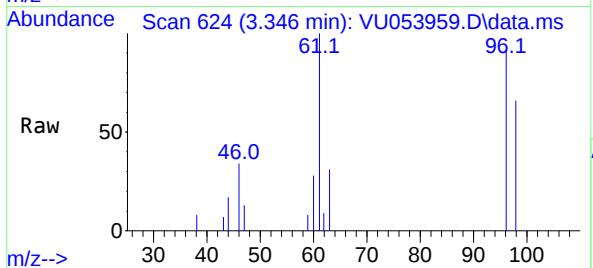




#18
trans-1,2-Dichloroethene
Concen: 0.308 ug/L
RT: 3.346 min Scan# 61
Delta R.T. -0.006 min
Lab File: VU053959.D
Acq: 28 Apr 2023 00:54

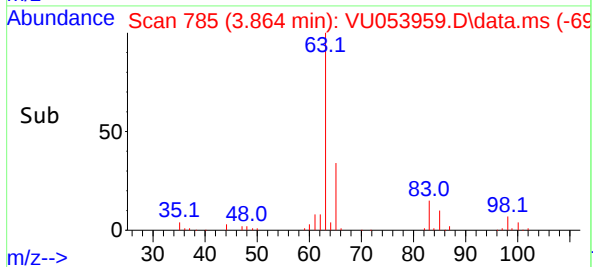
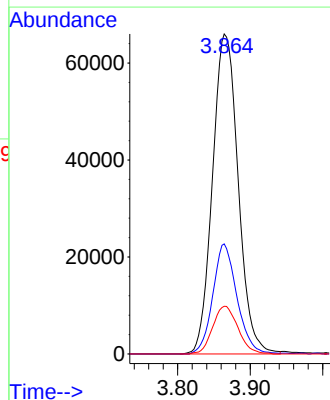
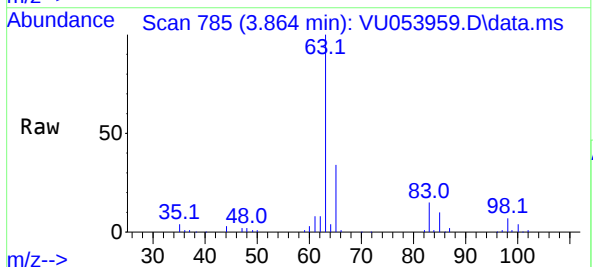
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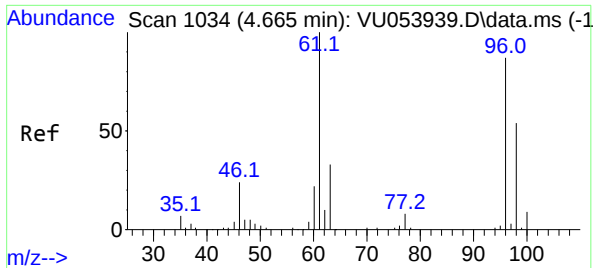
Tgt Ion: 96 Resp: 2749
Ion Ratio Lower Upper
96 100
61 110.0 86.2 160.0
98 72.5 42.8 79.4



#19
1,1-Dichloroethane
Concen: 10.043 ug/L
RT: 3.864 min Scan# 785
Delta R.T. 0.000 min
Lab File: VU053959.D
Acq: 28 Apr 2023 00:54

Tgt Ion: 63 Resp: 162326
Ion Ratio Lower Upper
63 100
65 34.4 22.0 40.8
83 14.9 10.3 19.1

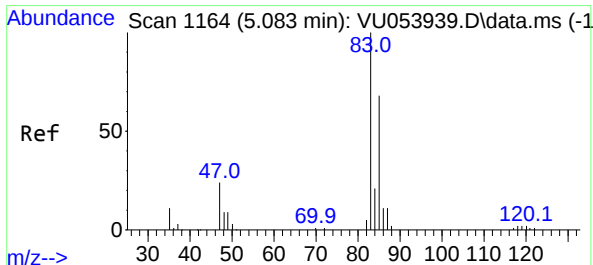
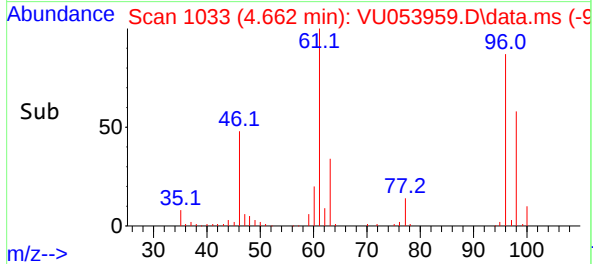
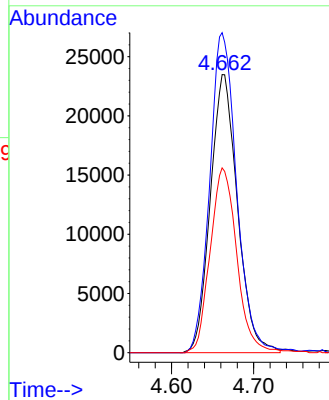
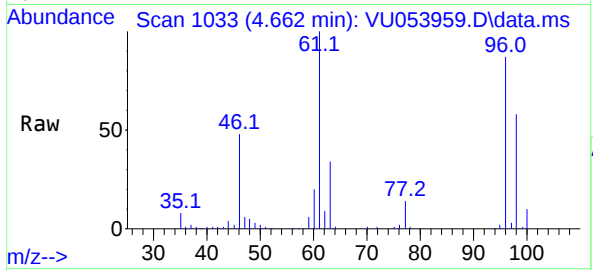




#22
cis-1,2-Dichloroethene
Concen: 5.372 ug/L
RT: 4.662 min Scan# 1034
Delta R.T. 0.000 min
Lab File: VU053959.D
Acq: 28 Apr 2023 00:54

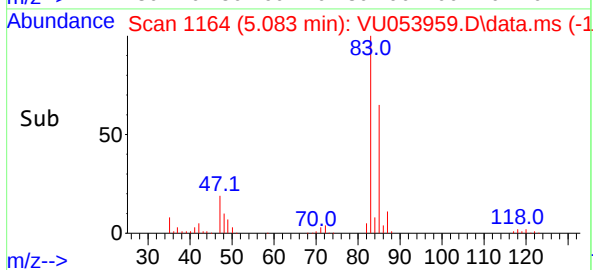
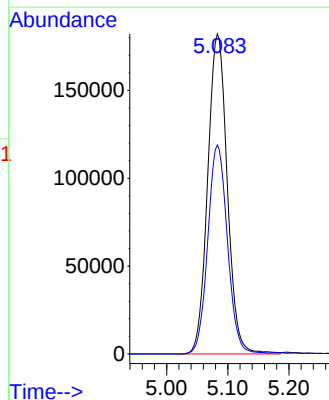
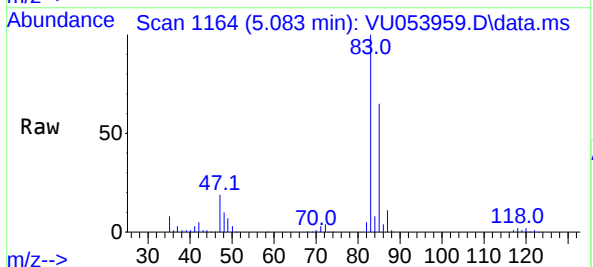
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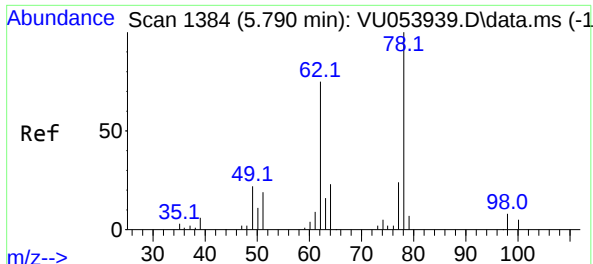
Tgt Ion: 96 Resp: 54126
Ion Ratio Lower Upper
96 100
61 115.0 84.3 156.5
98 66.4 46.4 86.2



#25
Chloroform
Concen: 23.068 ug/L
RT: 5.083 min Scan# 1164
Delta R.T. -0.003 min
Lab File: VU053959.D
Acq: 28 Apr 2023 00:54

Tgt Ion: 83 Resp: 404916
Ion Ratio Lower Upper
83 100
85 65.3 45.6 84.8

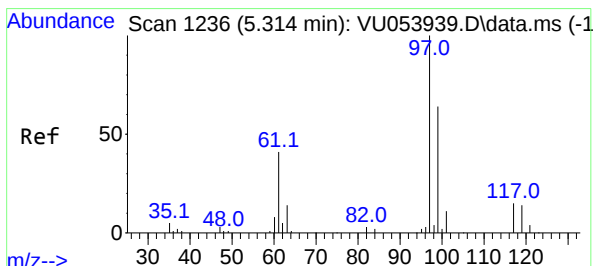
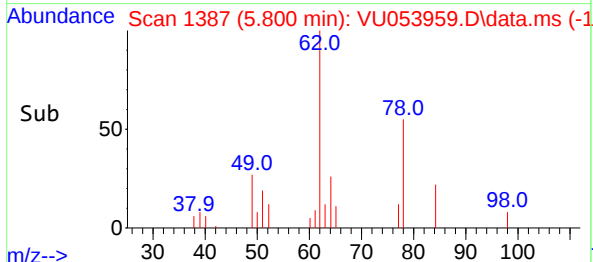
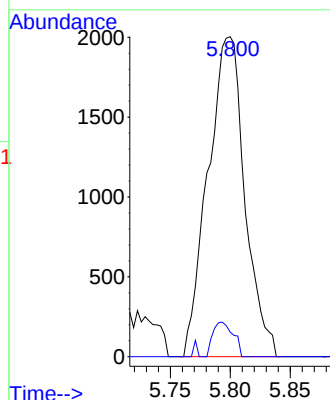
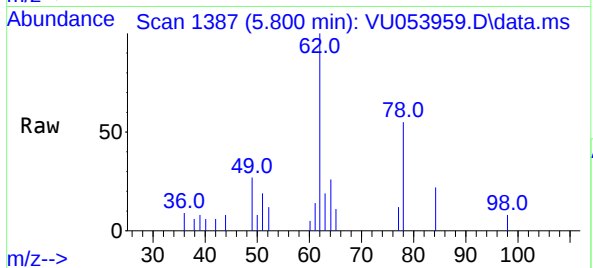




#27
1,2-Dichloroethane
Concen: 0.426 ug/L
RT: 5.800 min Scan# 11
Delta R.T. 0.010 min
Lab File: VU053959.D
Acq: 28 Apr 2023 00:54

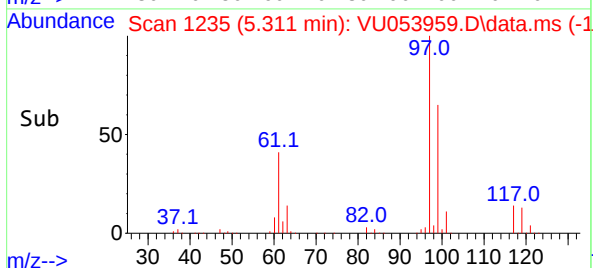
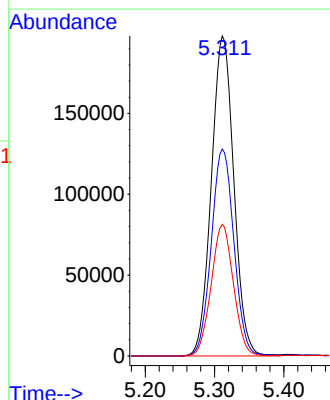
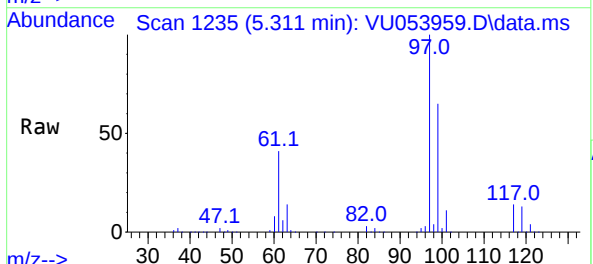
Instrument :
MSVOA_U
ClientSampleId :
HOA39

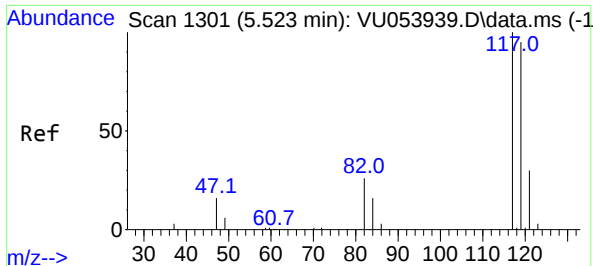
Tgt Ion: 62 Resp: 4282
Ion Ratio Lower Upper
62 100
98 7.7 8.7 13.1#



#29
1,1,1-Trichloroethane
Concen: 29.747 ug/L
RT: 5.311 min Scan# 1235
Delta R.T. -0.003 min
Lab File: VU053959.D
Acq: 28 Apr 2023 00:54

Tgt Ion: 97 Resp: 446183
Ion Ratio Lower Upper
97 100
99 65.2 52.9 79.3
61 40.7 33.8 50.8

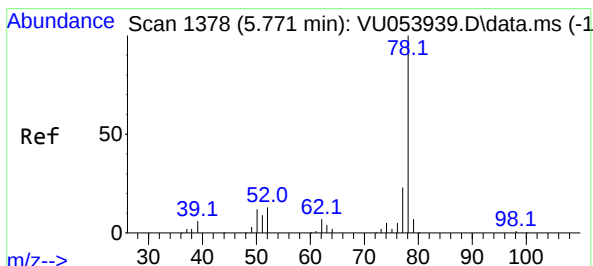
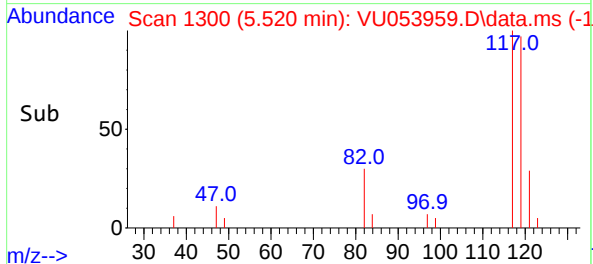
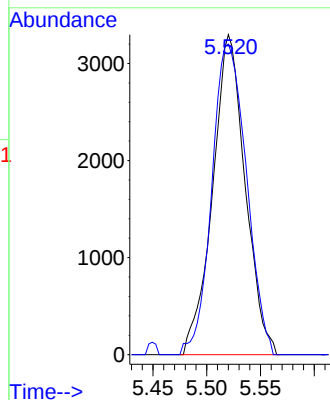
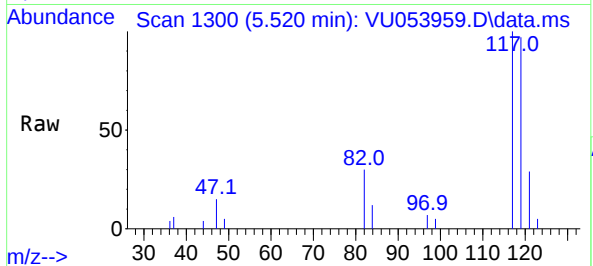




#31
Carbon tetrachloride
Concen: 0.532 ug/L
RT: 5.520 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VU053959.D
Acq: 28 Apr 2023 00:54

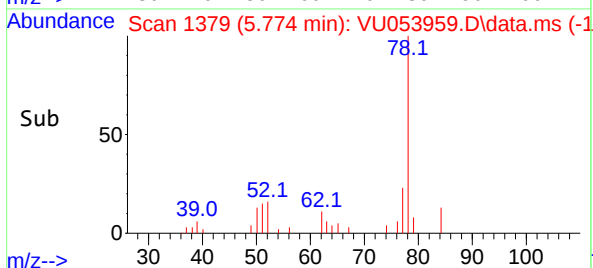
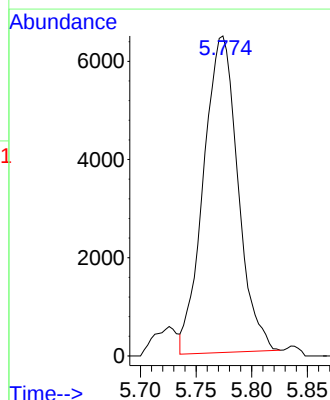
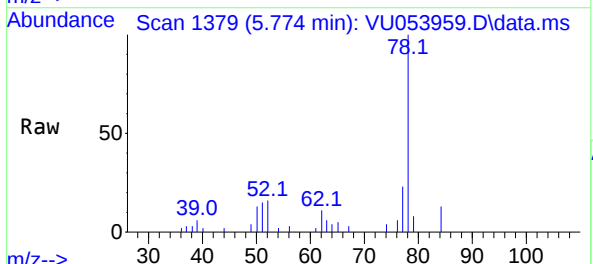
Instrument :
MSVOA_U
ClientSampleId :
HOA39

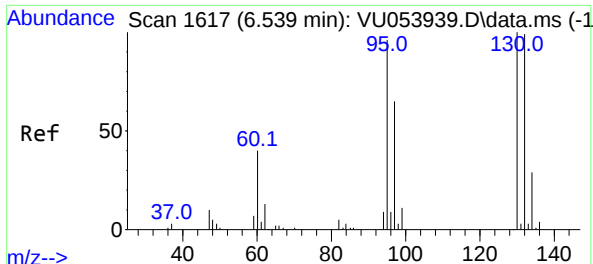
Tgt Ion:117 Resp: 6937
Ion Ratio Lower Upper
117 100
119 103.1 75.0 112.6



#33
Benzene
Concen: 0.369 ug/L
RT: 5.774 min Scan# 1379
Delta R.T. 0.003 min
Lab File: VU053959.D
Acq: 28 Apr 2023 00:54

Tgt Ion: 78 Resp: 13876



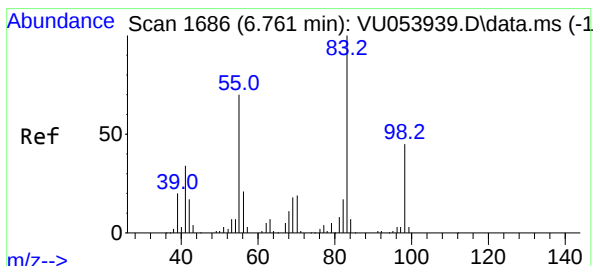
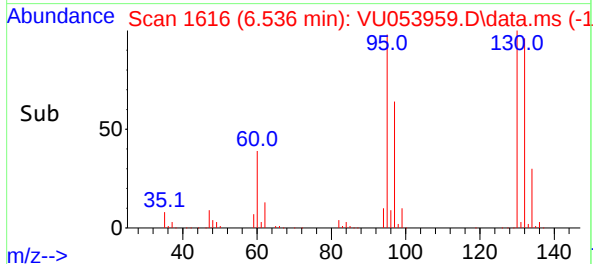
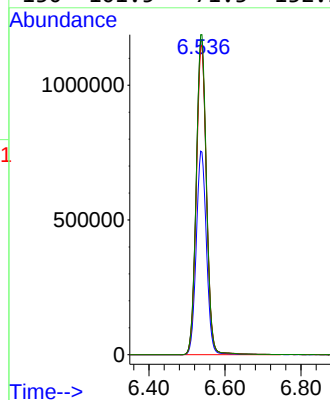
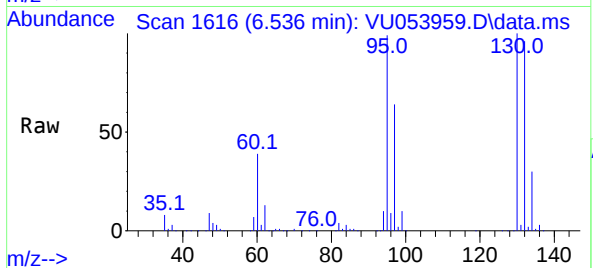


#34
Trichloroethene
Concen: 212.695 ug/L
RT: 6.536 min Scan# 1616
Delta R.T. -0.003 min
Lab File: VU053959.D
Acq: 28 Apr 2023 00:54

Instrument :
MSVOA_U
ClientSampleId :
HOA39

Tgt Ion: 95 Resp: 2179831

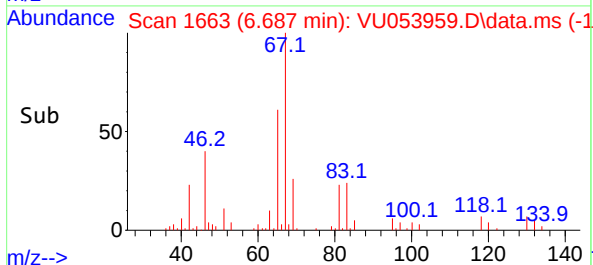
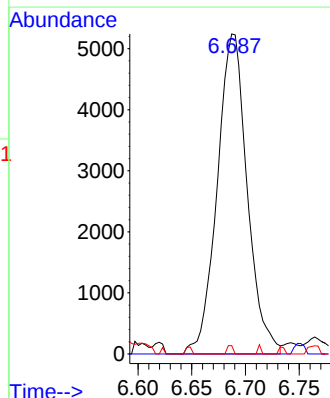
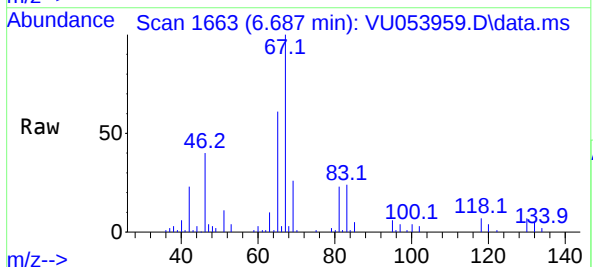
Ion	Ratio	Lower	Upper
95	100		
97	64.5	45.1	83.9
132	97.6	69.9	129.9
130	101.5	71.3	132.3

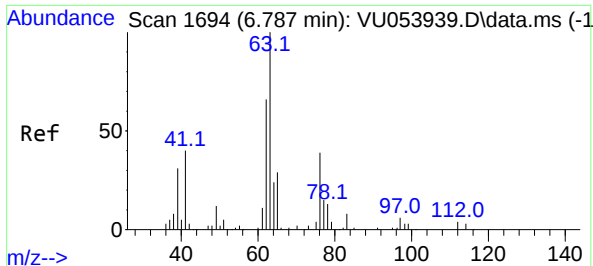


#35
Methylcyclohexane
Concen: 0.643 ug/L
RT: 6.687 min Scan# 1663
Delta R.T. -0.071 min
Lab File: VU053959.D
Acq: 28 Apr 2023 00:54

Tgt Ion: 83 Resp: 10180

Ion	Ratio	Lower	Upper
83	100		
55	1.1	55.4	83.2#
98	0.0	37.3	55.9#

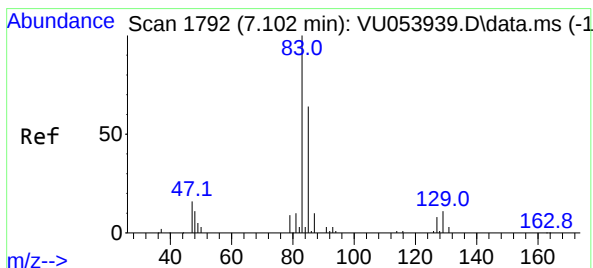
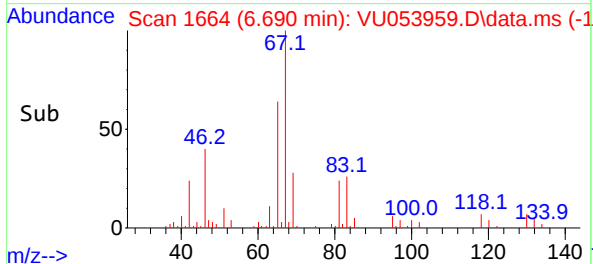
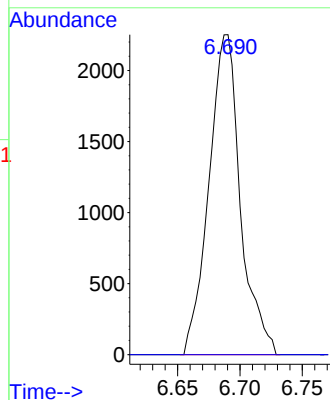
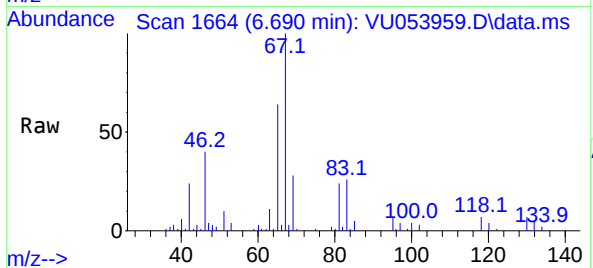




#37
1,2-Dichloropropane
Concen: 0.425 ug/L
RT: 6.690 min Scan# 1
Delta R.T. -0.096 min
Lab File: VU053959.D
Acq: 28 Apr 2023 00:54

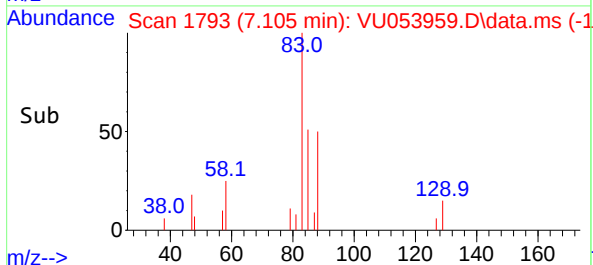
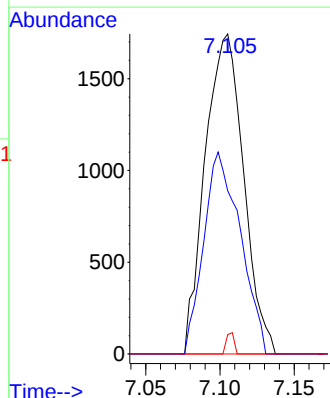
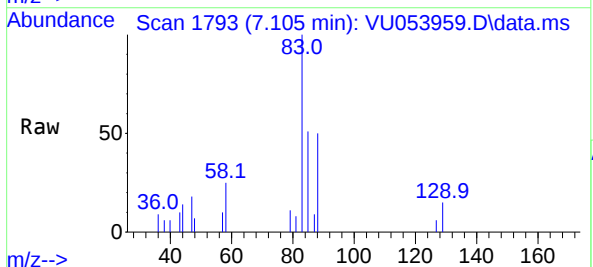
Instrument :
MSVOA_U
ClientSampleId :
HOA39

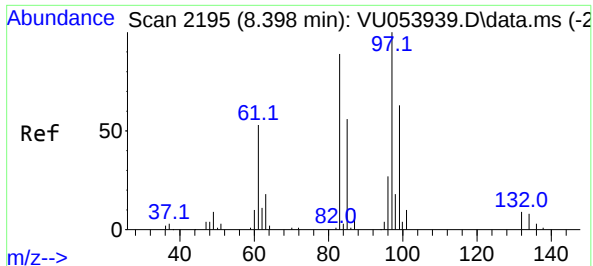
Tgt Ion: 63 Resp: 3962
Ion Ratio Lower Upper
63 100
112 0.0 3.5 5.3#



#38
Bromodichloromethane
Concen: 0.269 ug/L
RT: 7.105 min Scan# 1793
Delta R.T. 0.003 min
Lab File: VU053959.D
Acq: 28 Apr 2023 00:54

Tgt Ion: 83 Resp: 3138
Ion Ratio Lower Upper
83 100
85 51.0 45.2 84.0
127 6.1 7.3 10.9#



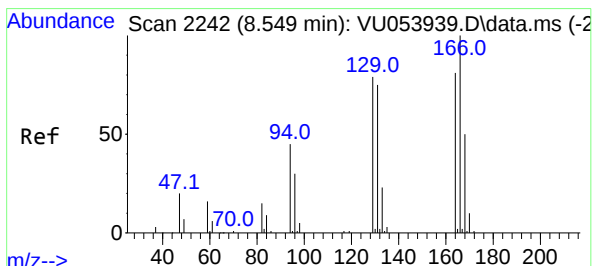
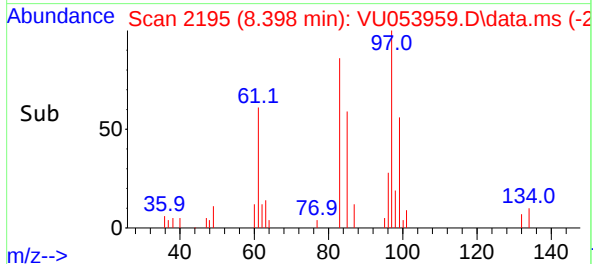
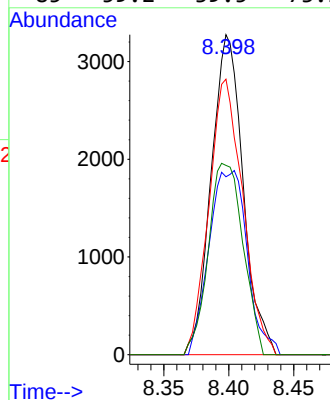
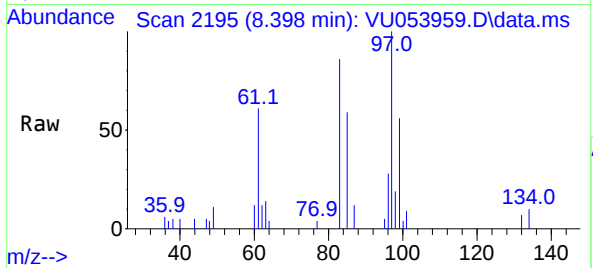


#45
1,1,2-Trichloroethane
Concen: 0.798 ug/L
RT: 8.398 min Scan# 2195
Delta R.T. 0.003 min
Lab File: VU053959.D
Acq: 28 Apr 2023 00:54

Instrument :
MSVOA_U
ClientSampleId :
HOA39

Tgt Ion: 97 Resp: 5581

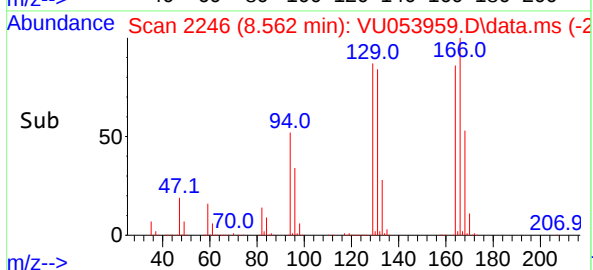
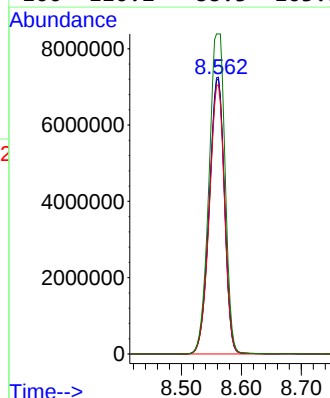
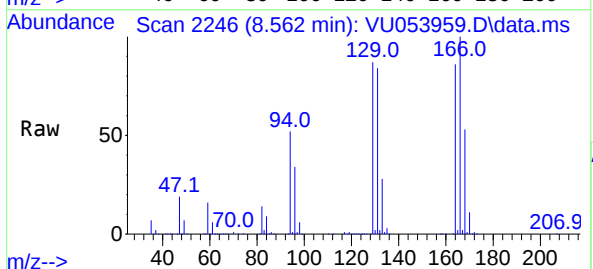
Ion	Ratio	Lower	Upper
97	100		
99	55.6	44.7	83.1
83	86.1	59.8	111.1
85	59.2	39.5	73.3

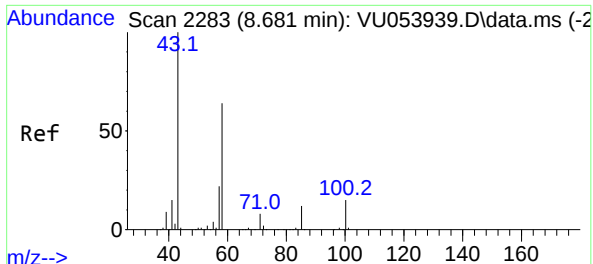


#47
Tetrachloroethene
Concen: 1571.992 ug/L
RT: 8.562 min Scan# 2246
Delta R.T. 0.013 min
Lab File: VU053959.D
Acq: 28 Apr 2023 00:54

Tgt Ion: 164 Resp: 12769294

Ion	Ratio	Lower	Upper
164	100		
129	100.5	68.3	126.8
131	97.8	64.4	119.6
166	116.2	88.3	163.9



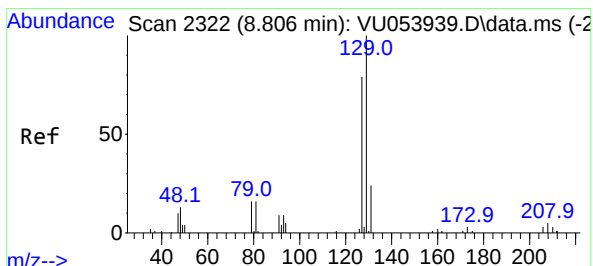
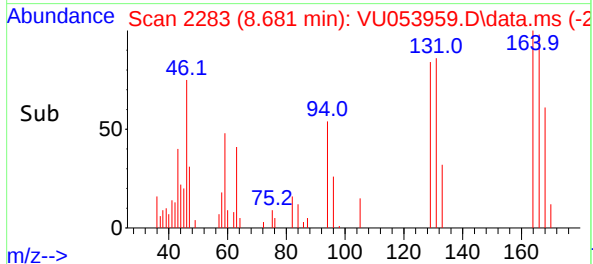
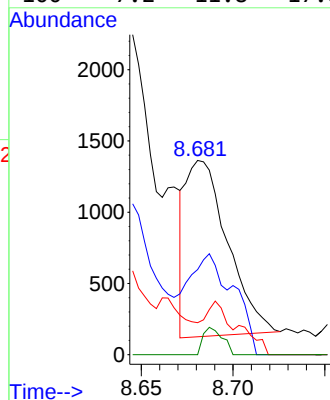
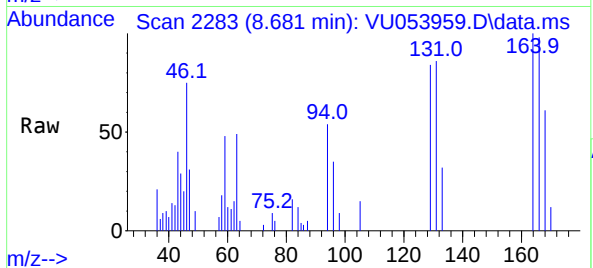


#48
2-Hexanone
Concen: 0.612 ug/L
RT: 8.681 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU053959.D
Acq: 28 Apr 2023 00:54

Instrument :
MSVOA_U
ClientSampleId :
HOA39

Tgt Ion: 43 Resp: 1958

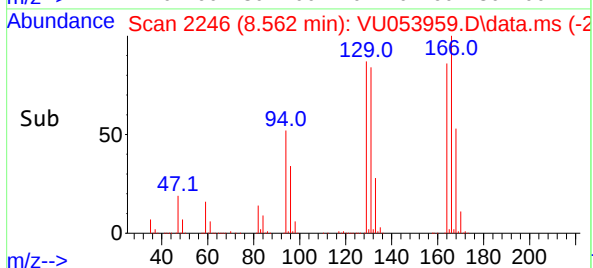
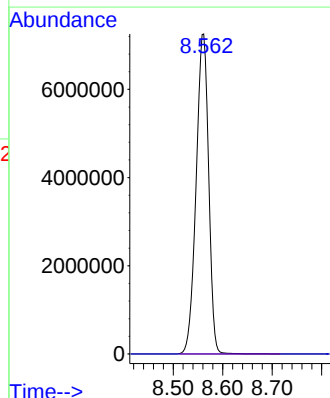
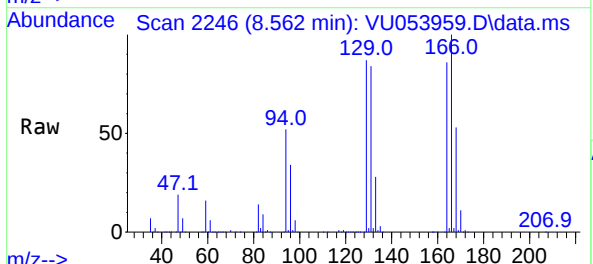
Ion	Ratio	Lower	Upper
43	100		
58	64.2	49.8	74.6
57	23.6	16.9	25.3
100	7.2	11.8	17.8

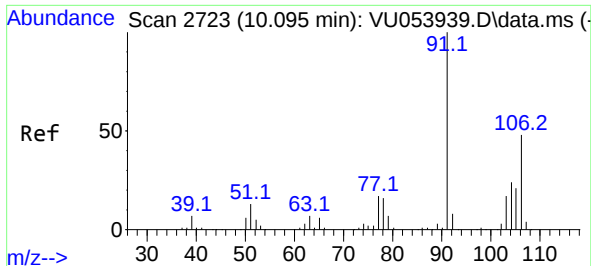


#49
Dibromochloromethane
Concen: 1727.690 ug/L
RT: 8.562 min Scan# 2246
Delta R.T. -0.244 min
Lab File: VU053959.D
Acq: 28 Apr 2023 00:54

Tgt Ion: 129 Resp: 12794103

Ion	Ratio	Lower	Upper
129	100		
127	0.0	55.7	103.5

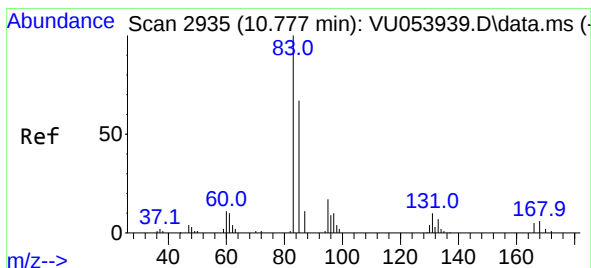
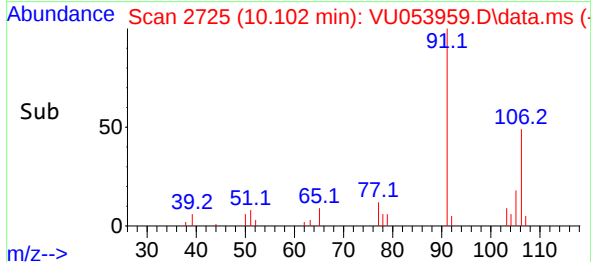
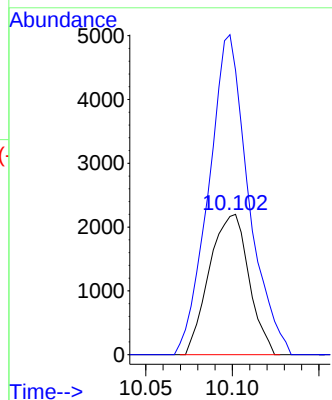
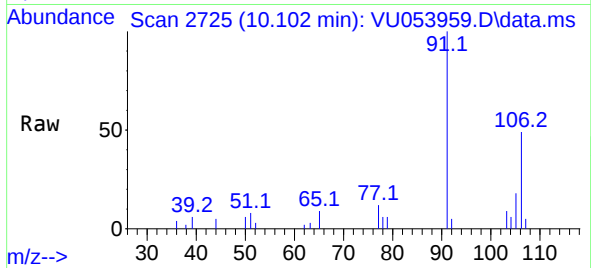




#54
o-Xylene
Concen: 0.215 ug/L
RT: 10.102 min Scan# 21
Delta R.T. 0.007 min
Lab File: VU053959.D
Acq: 28 Apr 2023 00:54

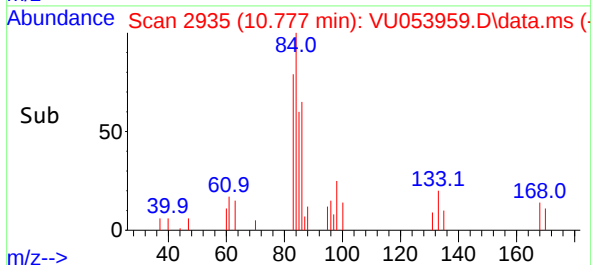
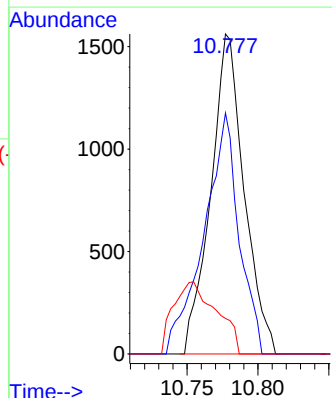
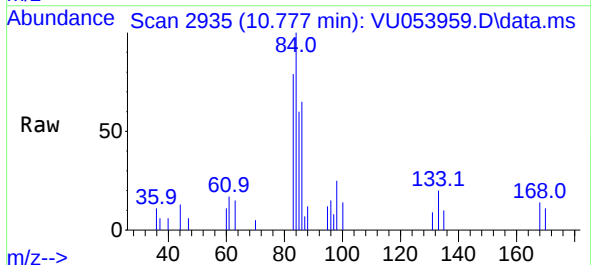
Instrument :
MSVOA_U
ClientSampleId :
HOA39

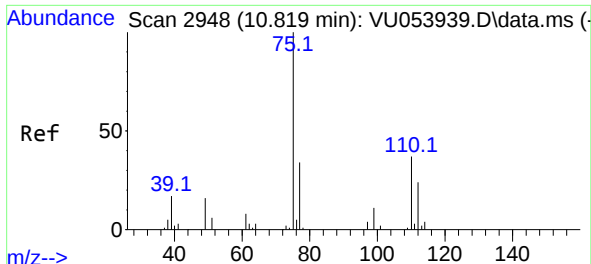
Tgt Ion:106 Resp: 3487
Ion Ratio Lower Upper
106 100
91 202.7 145.5 270.1



#57
1,1,2,2-Tetrachloroethane
Concen: 0.306 ug/L
RT: 10.777 min Scan# 2935
Delta R.T. 0.000 min
Lab File: VU053959.D
Acq: 28 Apr 2023 00:54

Tgt Ion: 83 Resp: 2555
Ion Ratio Lower Upper
83 100
85 75.3 43.5 80.9
131 11.1 7.8 11.6





#61

1,2,3-Trichloropropane

Concen: 1.039 ug/L

RT: 11.742 min Scan# 31

Delta R.T. 0.923 min

Lab File: VU053959.D

Acq: 28 Apr 2023 00:54

Instrument :

MSVOA_U

ClientSampleId :

HOA39

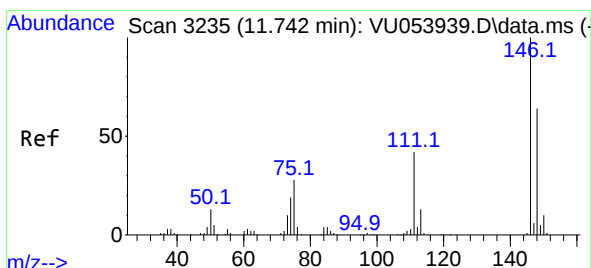
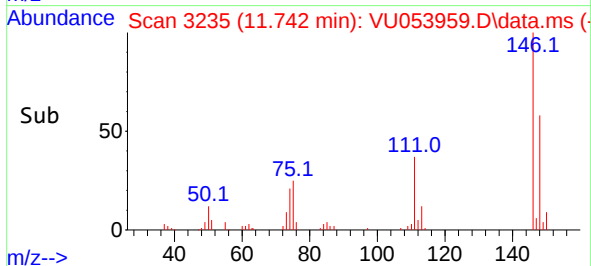
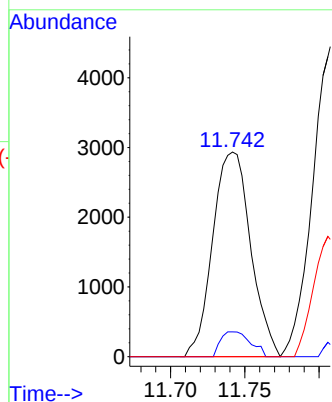
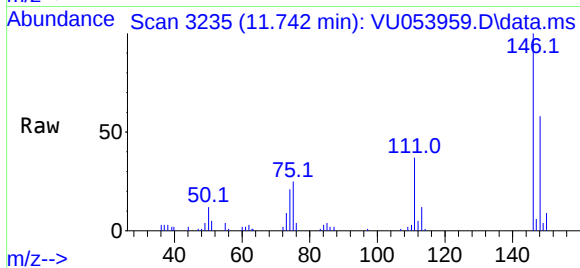
Tgt Ion: 75 Resp: 5216

Ion Ratio Lower Upper

75 100

110 9.5 30.7 46.1#

77 2.5 26.2 39.4#



#64

1,3-Dichlorobenzene

Concen: 0.962 ug/L

RT: 11.742 min Scan# 3235

Delta R.T. 0.000 min

Lab File: VU053959.D

Acq: 28 Apr 2023 00:54

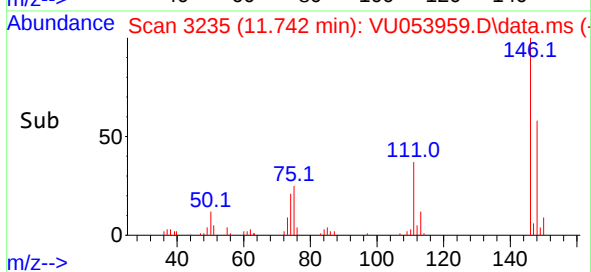
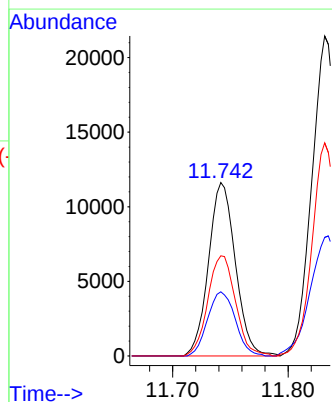
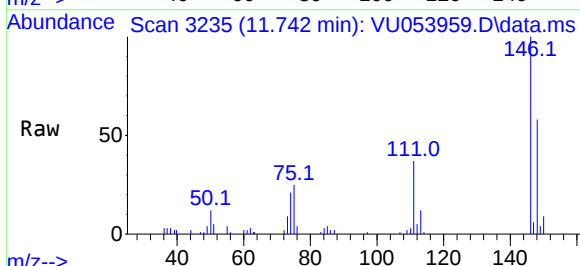
Tgt Ion:146 Resp: 18809

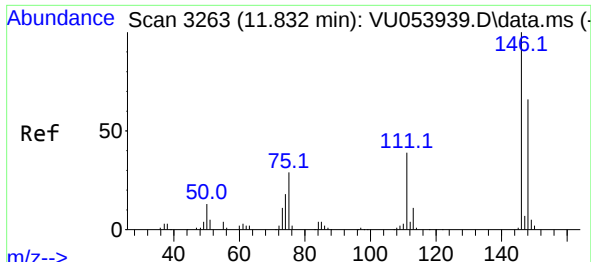
Ion Ratio Lower Upper

146 100

111 37.0 27.9 51.9

148 57.8 43.7 81.1





#65

1,4-Dichlorobenzene

Concen: 1.742 ug/L

RT: 11.832 min Scan# 3263

Delta R.T. 0.000 min

Lab File: VU053959.D

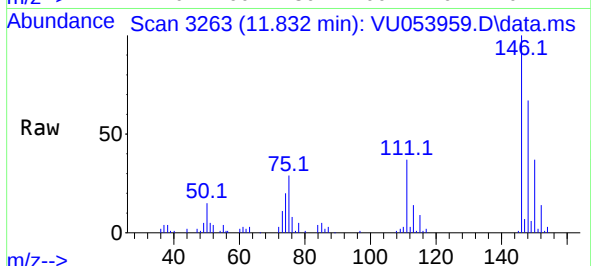
Acq: 28 Apr 2023 00:54

Instrument :

MSVOA_U

ClientSampleId :

HOA39



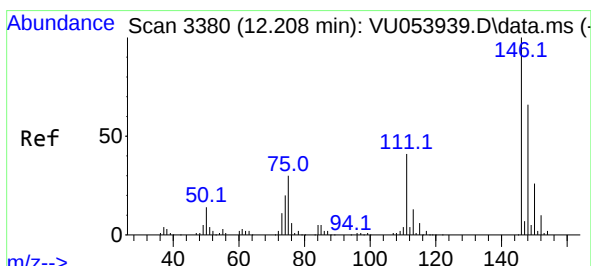
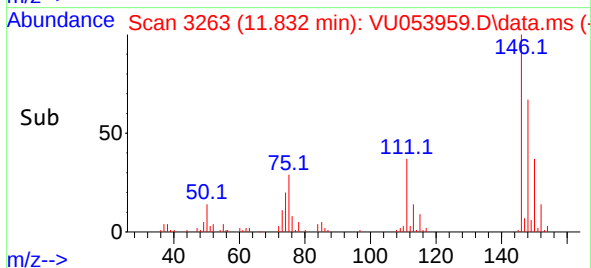
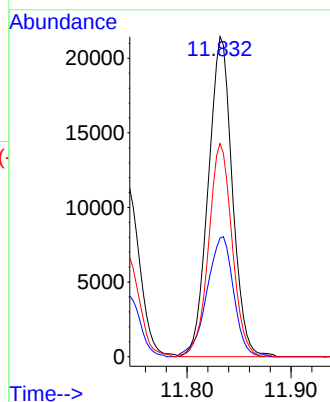
Tgt Ion:146 Resp: 34429

Ion Ratio Lower Upper

146 100

111 37.0 28.3 52.7

148 66.6 45.4 84.2



#67

1,2-Dichlorobenzene

Concen: 8.054 ug/L

RT: 12.208 min Scan# 3380

Delta R.T. 0.000 min

Lab File: VU053959.D

Acq: 28 Apr 2023 00:54

Tgt Ion:146 Resp: 145447

Ion Ratio Lower Upper

146 100

111 42.3 32.6 49.0

148 65.3 51.0 76.4

