

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU042823\
 Data File : VU053957.D
 Acq On : 28 Apr 2023 00:06
 Operator : JC/MD
 Sample : 02525-04
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 HOA36

Quant Time: Apr 28 07:22:28 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	6.246	114	121345	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	118590	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	61975	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	1021	0.138	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	2.800%#
7) Chloroethane-d5	1.912	69	25879	4.172	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	83.400%
11) 1,1-Dichloroethene-d2	2.565	65	43	0.014	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	0.200%#
20) 2-Butanone-d5	4.648	46	68729	50.770	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.540%
24) Chloroform-d	5.060	84	78216	5.616	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	112.400%
26) 1,2-Dichloroethane-d4	5.700	65	32438	5.040	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.800%
32) Benzene-d6	5.722	84	111317	3.985	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	79.600%
36) 1,2-Dichloropropane-d6	6.687	67	43153	5.106	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.200%
41) Toluene-d8	7.896	98	66521	2.551	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	51.000%#
43) trans-1,3-Dichloroprop...	8.176	79	12634	3.801	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	76.000%
46) 2-Hexanone-d5	8.632	63	62937	53.503	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	107.000%
56) 1,1,2,2-Tetrachloroeth...	10.751	84	32481	4.756	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.200%
66) 1,2-Dichlorobenzene-d4	12.188	152	41636	4.189	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	83.800%
Target Compounds						
					Qvalue	
3) Chloromethane	1.517	50	3347	0.383	ug/L	95
6) Bromomethane	1.858	94	2414	0.368	ug/L	96
12) 1,1-Dichloroethene	2.578	96	3030	0.397	ug/L #	81
13) Acetone	2.674	43	85266	77.671	ug/L	91
16) Methylene chloride	3.041	84	5248	0.504	ug/L	92
18) trans-1,2-Dichloroethene	3.356	96	4166	0.540	ug/L	89
19) 1,1-Dichloroethane	3.864	63	119173	8.538	ug/L	96
22) cis-1,2-Dichloroethene	4.661	96	27261	3.133	ug/L	95
25) Chloroform	5.083	83	261437	17.247	ug/L	99
27) 1,2-Dichloroethane	5.796	62	3147	0.362	ug/L	98
29) 1,1,1-Trichloroethane	5.311	97	410049	30.758	ug/L	98
31) Carbon tetrachloride	5.520	117	8954	0.773	ug/L	94
33) Benzene	5.771	78	13465	0.403	ug/L	100
34) Trichloroethene	6.536	95	1583196	173.806	ug/L	99
35) Methylcyclohexane	6.687	83	10093	0.717	ug/L #	21
37) 1,2-Dichloropropane	6.681	63	4373	0.527	ug/L #	87
45) 1,1,2-Trichloroethane	8.401	97	4343	0.699	ug/L	90
47) Tetrachloroethene	8.562	164	12164452	1684.890	ug/L	96
48) 2-Hexanone	8.680	43	2697	0.948	ug/L #	64

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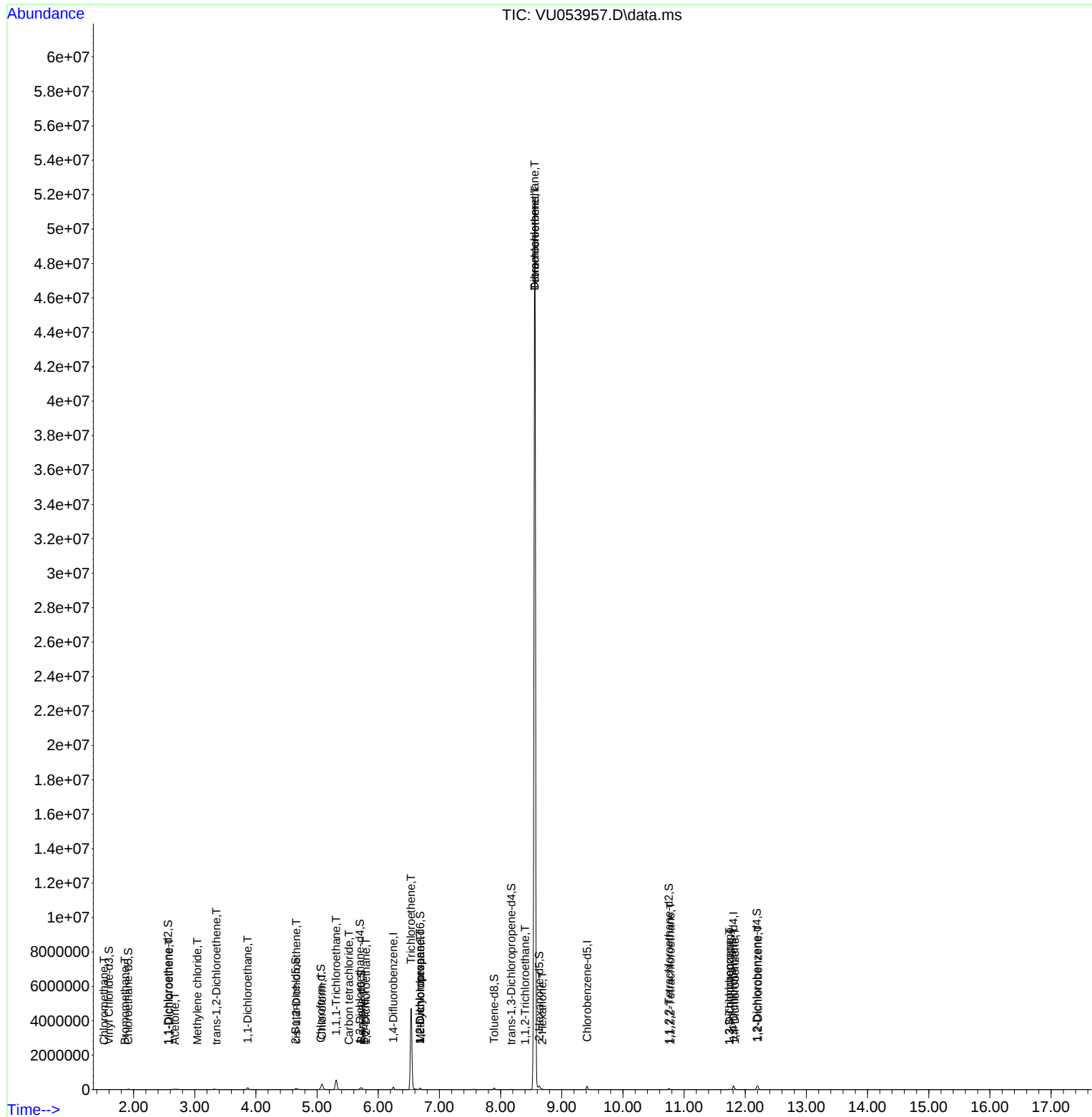
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.558	129	12119439	1841.341	ug/L #	10
57) 1,1,2,2-Tetrachloroethane	10.777	83	1200	0.162	ug/L #	92
61) 1,2,3-Trichloropropane	11.741	75	3348	0.701	ug/L #	45
64) 1,3-Dichlorobenzene	11.741	146	11575	0.622	ug/L	97
65) 1,4-Dichlorobenzene	11.831	146	15787	0.839	ug/L	95
67) 1,2-Dichlorobenzene	12.208	146	70770	4.115	ug/L	99

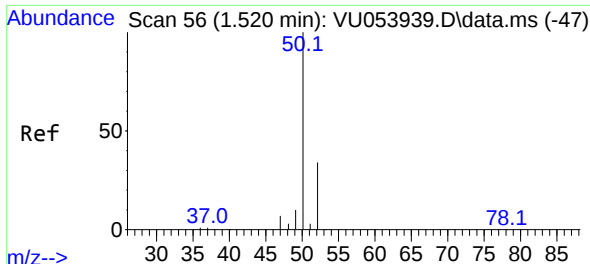
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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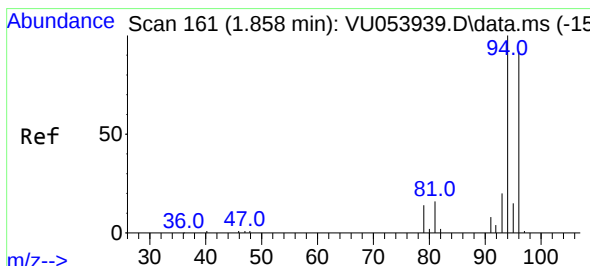
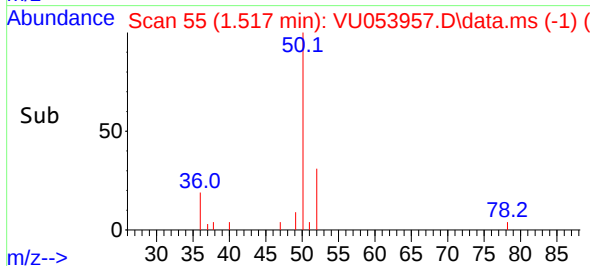
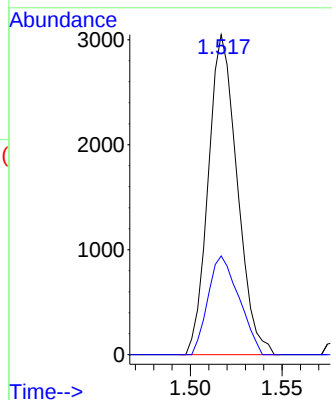
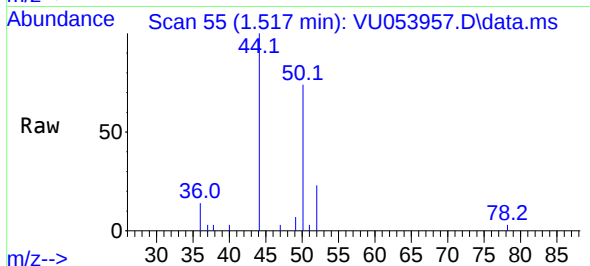




#3
Chloromethane
Concen: 0.383 ug/L
RT: 1.517 min Scan# 51
Delta R.T. -0.003 min
Lab File: VU053957.D
Acq: 28 Apr 2023 00:06

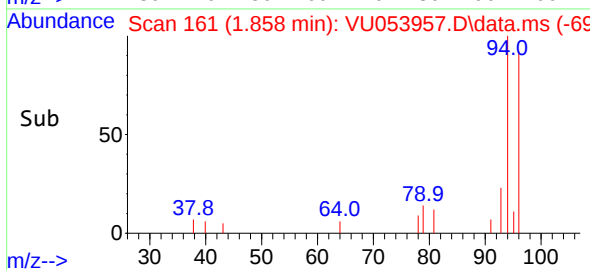
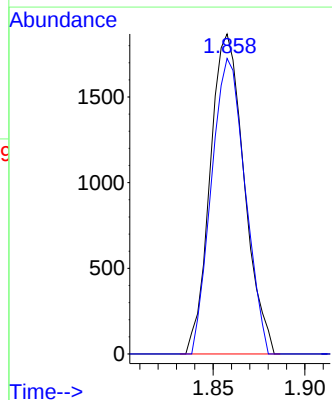
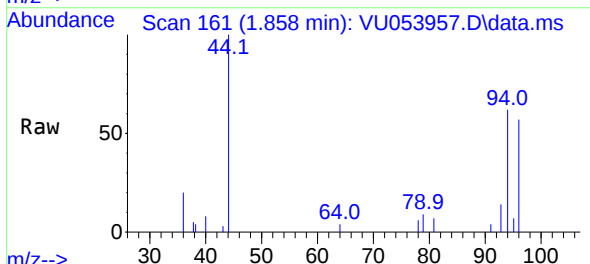
Instrument :
MSVOA_U
ClientSampleId :
HOA36

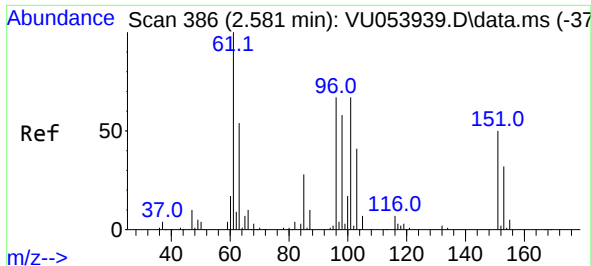
Tgt Ion: 50 Resp: 3347
Ion Ratio Lower Upper
50 100
52 30.8 23.4 43.6



#6
Bromomethane
Concen: 0.368 ug/L
RT: 1.858 min Scan# 161
Delta R.T. -0.003 min
Lab File: VU053957.D
Acq: 28 Apr 2023 00:06

Tgt Ion: 94 Resp: 2414
Ion Ratio Lower Upper
94 100
96 92.3 61.9 114.9





#12

1,1-Dichloroethene

Concen: 0.397 ug/L

RT: 2.578 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU053957.D

Acq: 28 Apr 2023 00:06

Instrument :

MSVOA_U

ClientSampleId :

HOA36

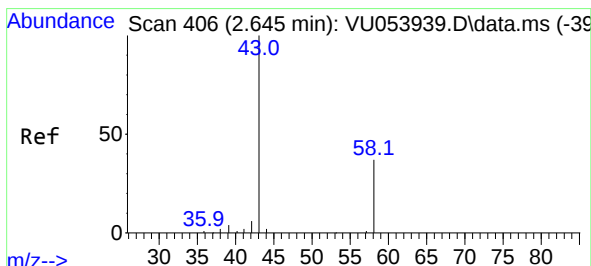
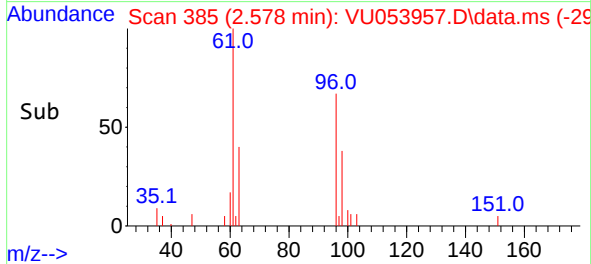
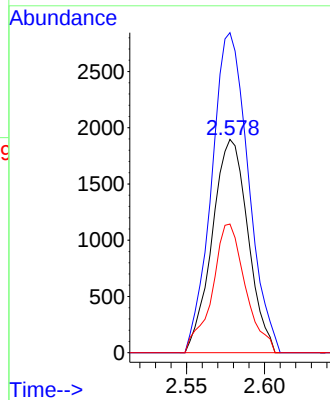
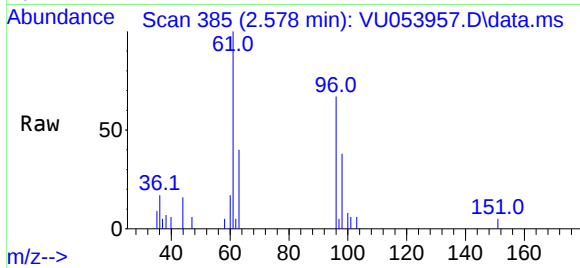
Tgt Ion: 96 Resp: 3030

Ion Ratio Lower Upper

96 100

61 150.1 111.5 207.1

63 60.3 68.7 127.7#



#13

Acetone

Concen: 77.671 ug/L

RT: 2.674 min Scan# 415

Delta R.T. 0.013 min

Lab File: VU053957.D

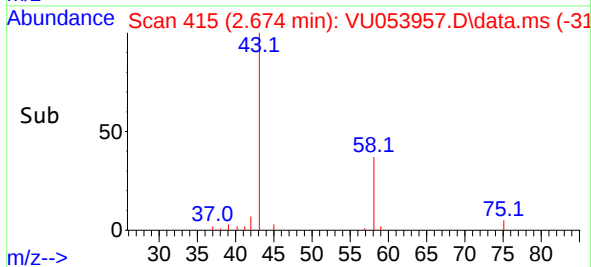
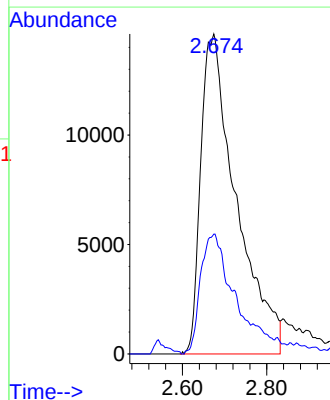
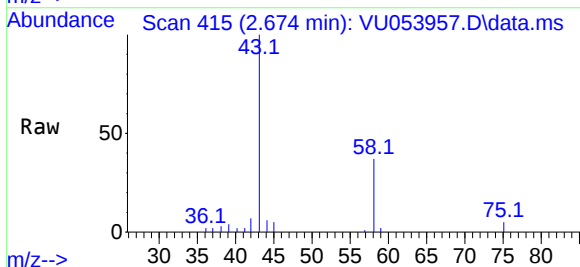
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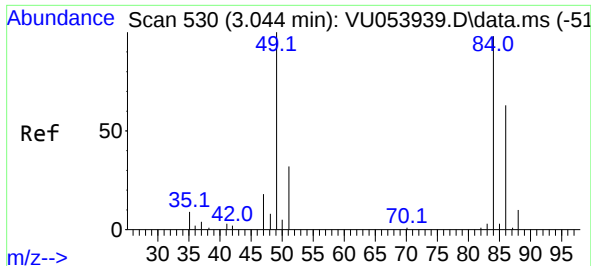
Tgt Ion: 43 Resp: 85266

Ion Ratio Lower Upper

43 100

58 32.9 0.0 76.2

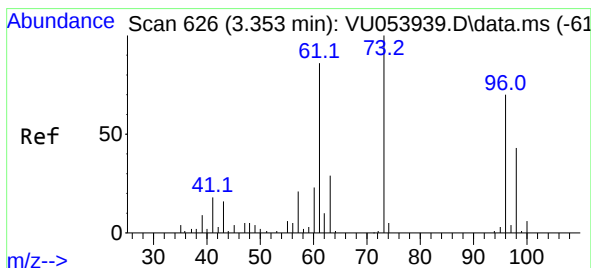
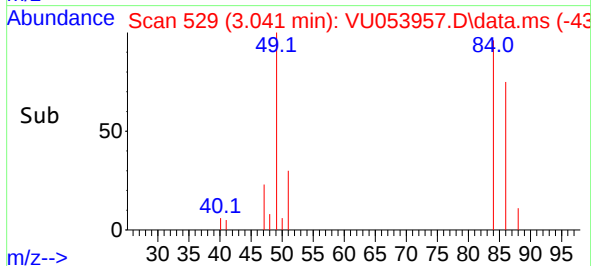
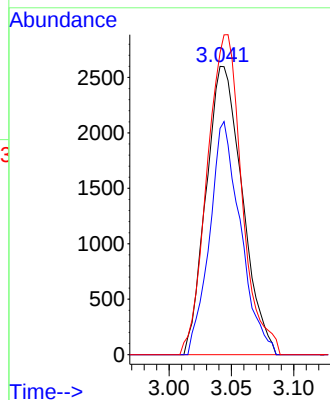
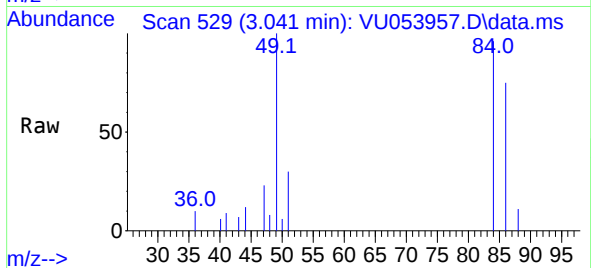




#16
Methylene chloride
Concen: 0.504 ug/L
RT: 3.041 min Scan# 51
Delta R.T. -0.003 min
Lab File: VU053957.D
Acq: 28 Apr 2023 00:06

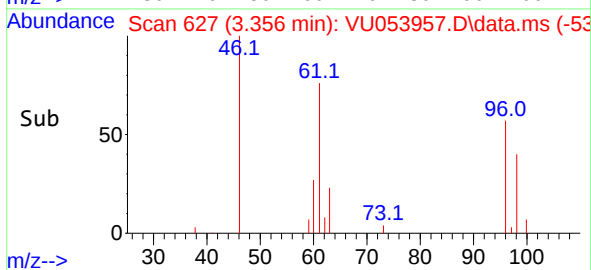
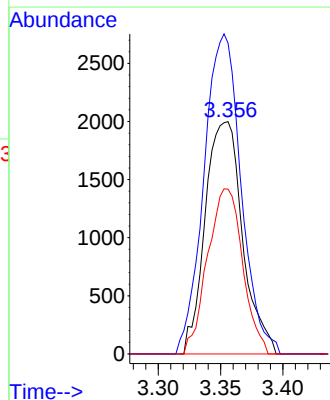
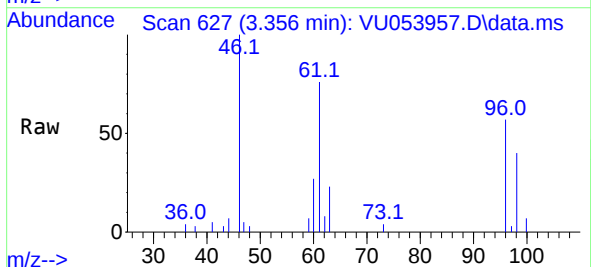
Instrument :
MSVOA_U
ClientSampleId :
HOA36

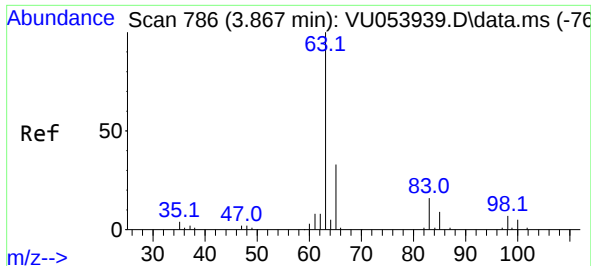
Tgt Ion: 84 Resp: 5248
Ion Ratio Lower Upper
84 100
86 78.5 45.0 83.6
49 104.7 74.8 138.8



#18
trans-1,2-Dichloroethene
Concen: 0.540 ug/L
RT: 3.356 min Scan# 627
Delta R.T. 0.003 min
Lab File: VU053957.D
Acq: 28 Apr 2023 00:06

Tgt Ion: 96 Resp: 4166
Ion Ratio Lower Upper
96 100
61 133.8 86.2 160.0
98 70.9 42.8 79.4

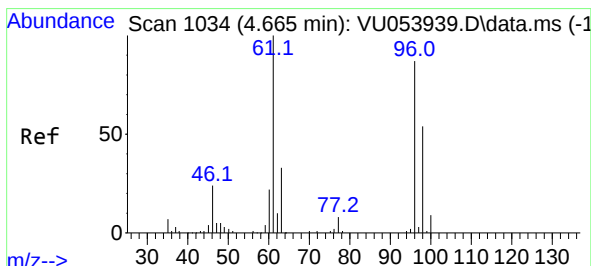
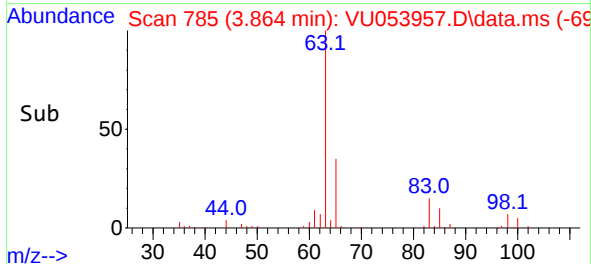
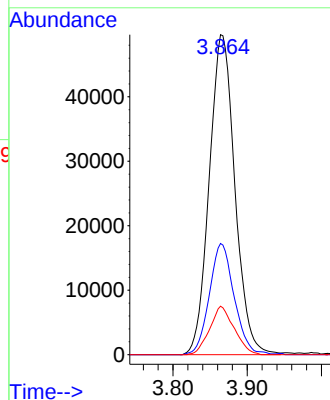
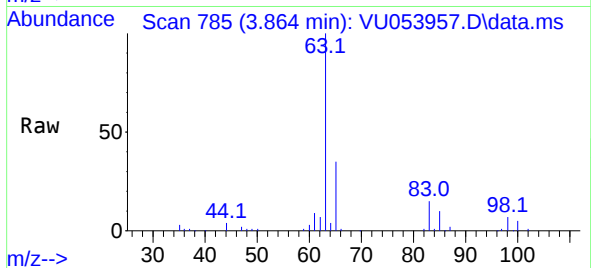




#19
1,1-Dichloroethane
Concen: 8.538 ug/L
RT: 3.864 min Scan# 71
Delta R.T. -0.000 min
Lab File: VU053957.D
Acq: 28 Apr 2023 00:06

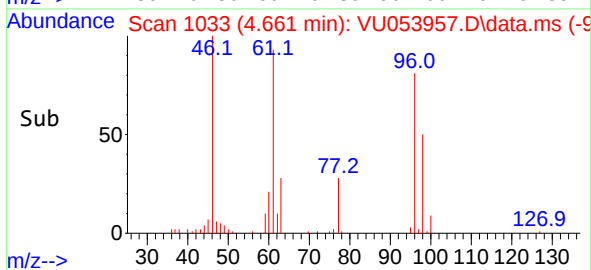
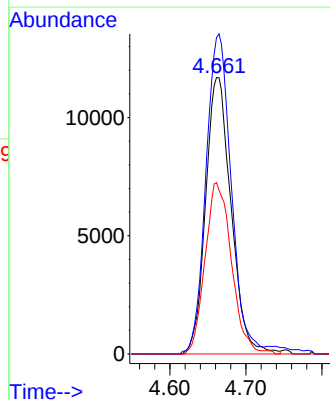
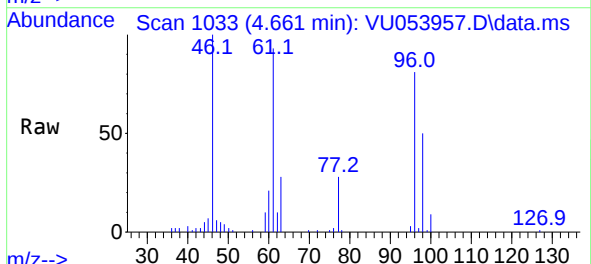
Instrument :
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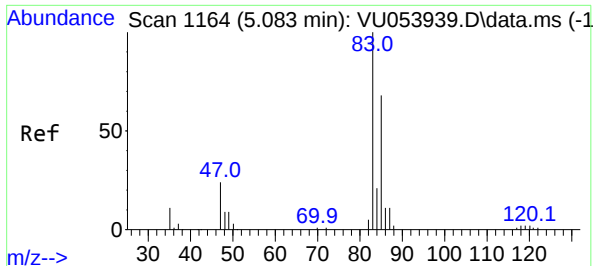
Tgt Ion: 63 Resp: 119173
Ion Ratio Lower Upper
63 100
65 34.7 22.0 40.8
83 15.1 10.3 19.1



#22
cis-1,2-Dichloroethene
Concen: 3.133 ug/L
RT: 4.661 min Scan# 1033
Delta R.T. -0.000 min
Lab File: VU053957.D
Acq: 28 Apr 2023 00:06

Tgt Ion: 96 Resp: 27261
Ion Ratio Lower Upper
96 100
61 114.4 84.3 156.5
98 62.0 46.4 86.2

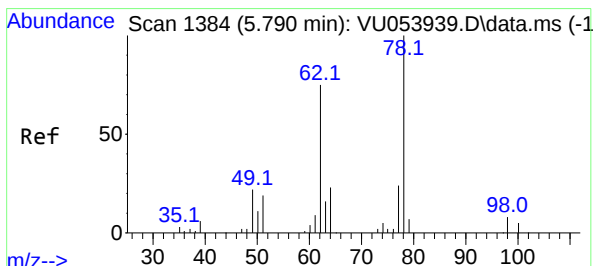
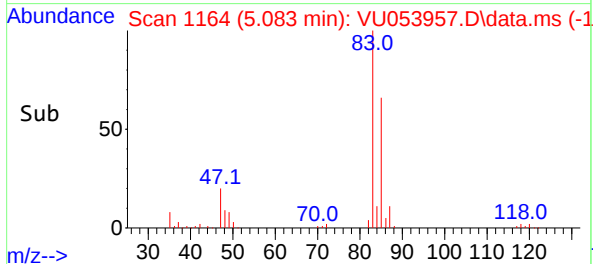
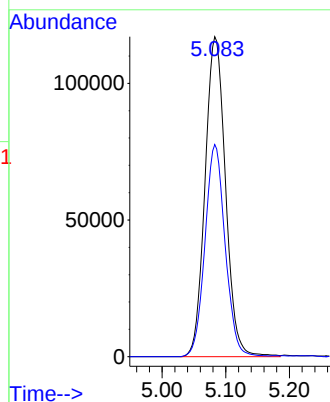
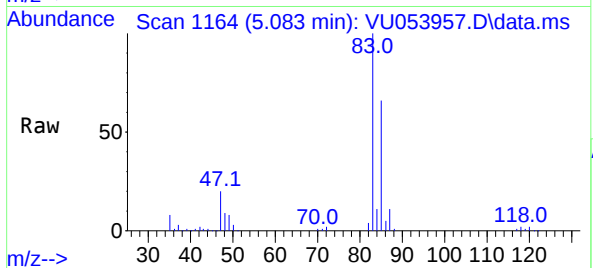




#25
Chloroform
Concen: 17.247 ug/L
RT: 5.083 min Scan# 1164
Delta R.T. -0.003 min
Lab File: VU053957.D
Acq: 28 Apr 2023 00:06

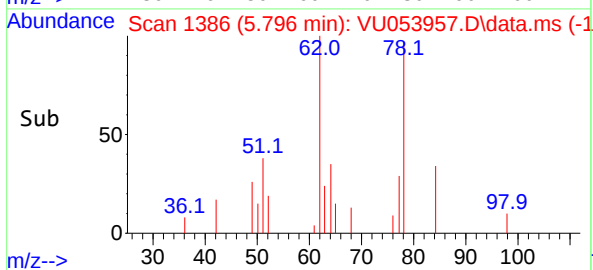
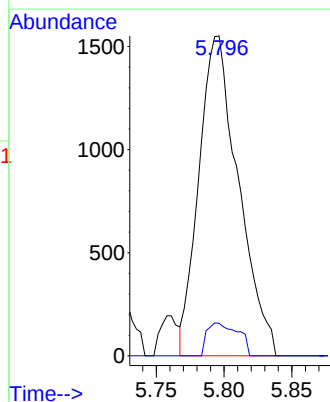
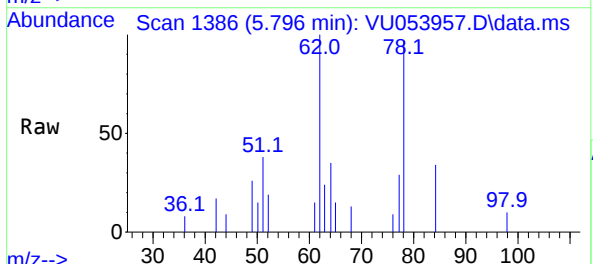
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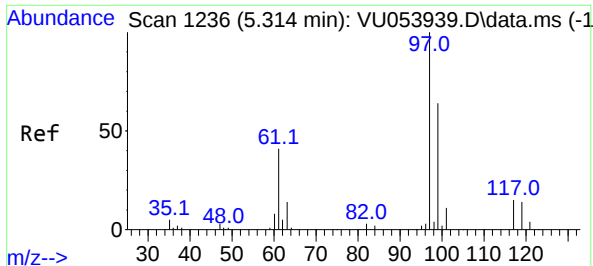
Tgt Ion: 83 Resp: 261437
Ion Ratio Lower Upper
83 100
85 66.3 45.6 84.8



#27
1,2-Dichloroethane
Concen: 0.362 ug/L
RT: 5.796 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VU053957.D
Acq: 28 Apr 2023 00:06

Tgt Ion: 62 Resp: 3147
Ion Ratio Lower Upper
62 100
98 10.2 8.7 13.1





#29

1,1,1-Trichloroethane

Concen: 30.758 ug/L

RT: 5.311 min Scan# 11

Delta R.T. -0.003 min

Lab File: VU053957.D

Acq: 28 Apr 2023 00:06

Instrument :

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ClientSampleId :

HOA36

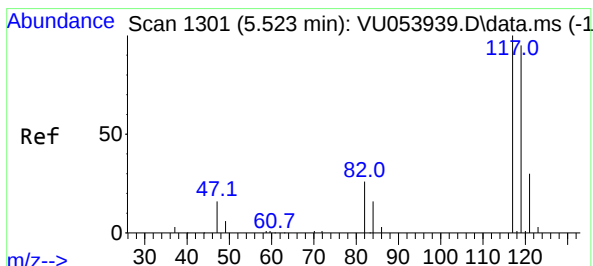
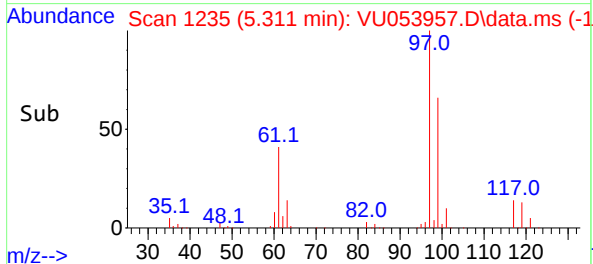
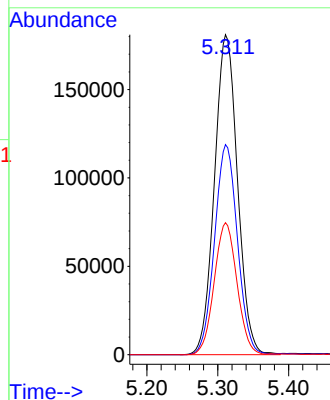
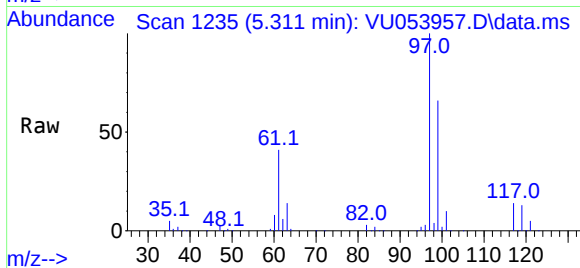
Tgt Ion: 97 Resp: 410049

Ion Ratio Lower Upper

97 100

99 65.2 52.9 79.3

61 40.7 33.8 50.8



#31

Carbon tetrachloride

Concen: 0.773 ug/L

RT: 5.520 min Scan# 1300

Delta R.T. -0.000 min

Lab File: VU053957.D

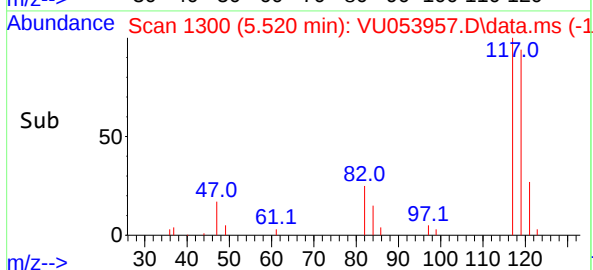
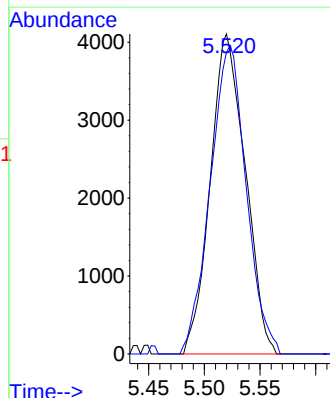
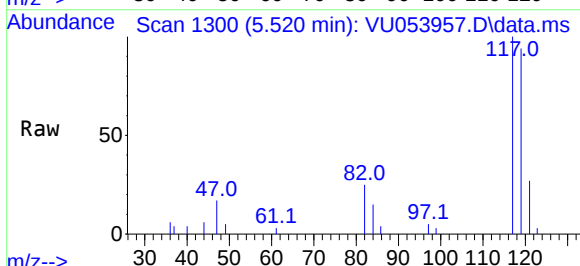
Acq: 28 Apr 2023 00:06

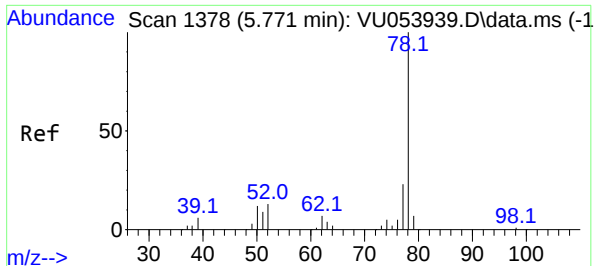
Tgt Ion: 117 Resp: 8954

Ion Ratio Lower Upper

117 100

119 99.3 75.0 112.6





Benzene

Concen: 0.403 ug/L

RT: 5.771 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU053957.D

Acq: 28 Apr 2023 00:06

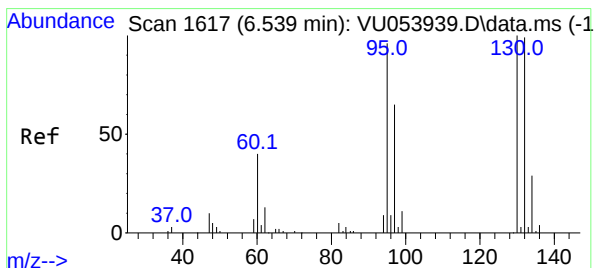
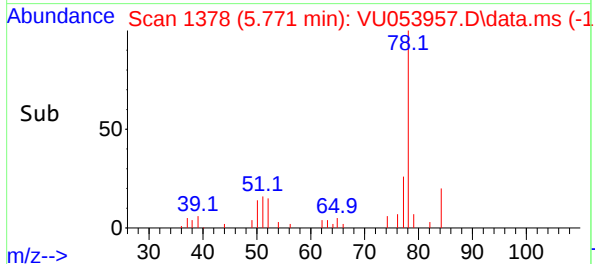
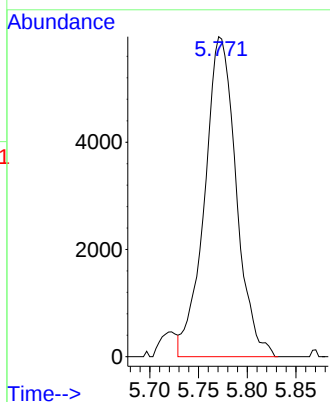
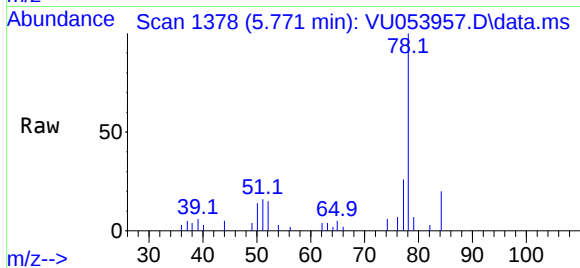
Instrument :

MSVOA_U

ClientSampleId :

HOA36

Tgt Ion: 78 Resp: 13465



Trichloroethene

Concen: 173.806 ug/L

RT: 6.536 min Scan# 1616

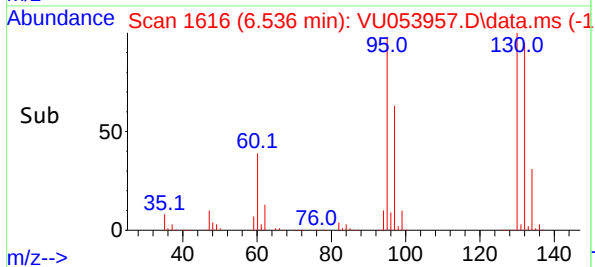
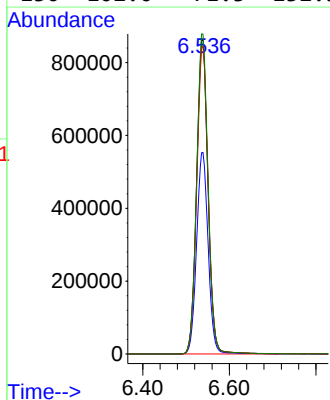
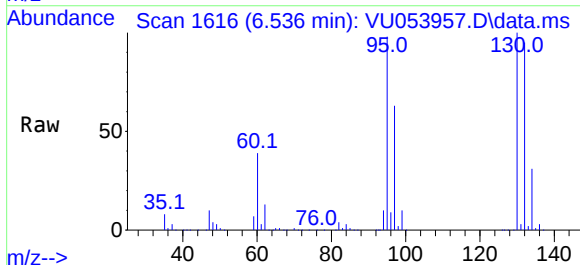
Delta R.T. -0.003 min

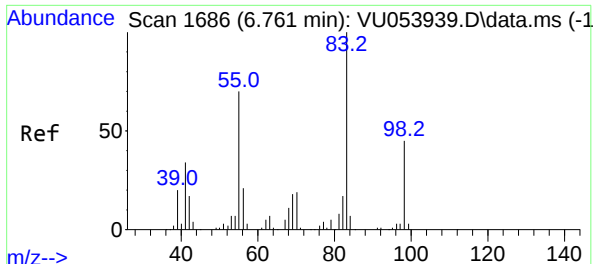
Lab File: VU053957.D

Acq: 28 Apr 2023 00:06

Tgt Ion: 95 Resp: 1583196

Ion	Ratio	Lower	Upper
95	100		
97	64.1	45.1	83.9
132	97.4	69.9	129.9
130	102.0	71.3	132.3

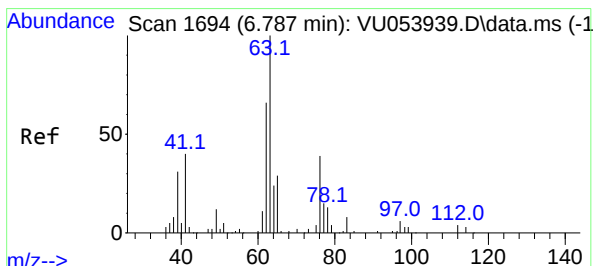
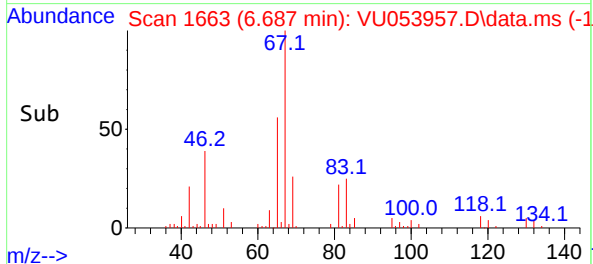
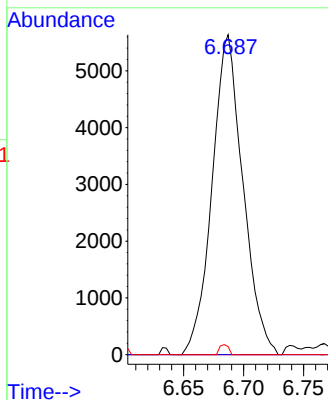
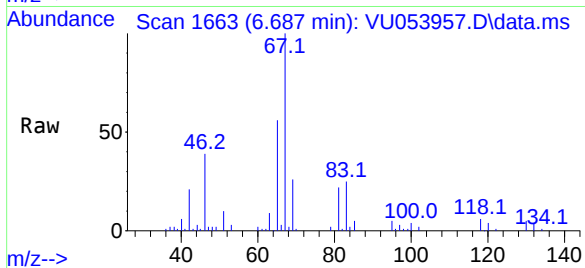




#35
Methylcyclohexane
Concen: 0.717 ug/L
RT: 6.687 min Scan# 1663
Delta R.T. -0.071 min
Lab File: VU053957.D
Acq: 28 Apr 2023 00:06

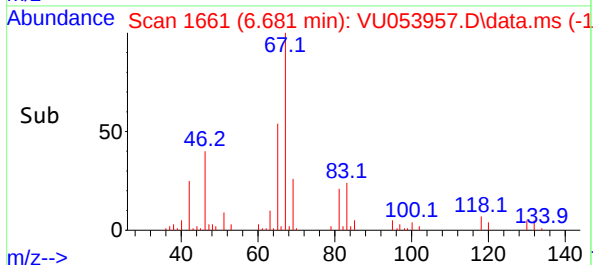
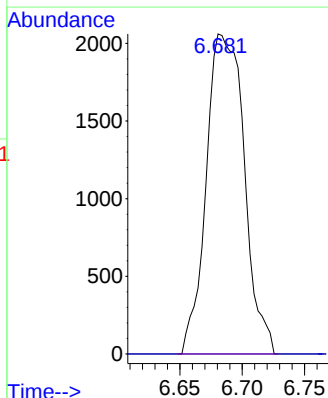
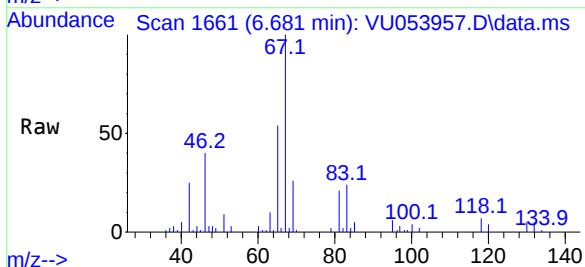
Instrument :
MSVOA_U
ClientSampleId :
HOA36

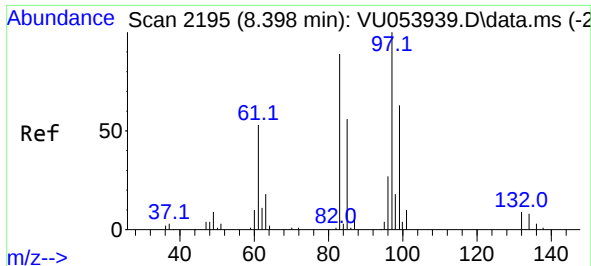
Tgt Ion: 83 Resp: 10093
Ion Ratio Lower Upper
83 100
55 0.0 55.4 83.2#
98 0.0 37.3 55.9#



#37
1,2-Dichloropropane
Concen: 0.527 ug/L
RT: 6.681 min Scan# 1661
Delta R.T. -0.106 min
Lab File: VU053957.D
Acq: 28 Apr 2023 00:06

Tgt Ion: 63 Resp: 4373
Ion Ratio Lower Upper
63 100
112 0.0 3.5 5.3#



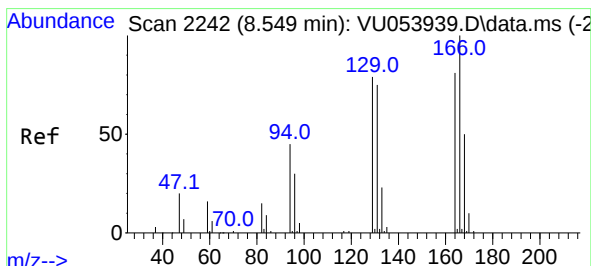
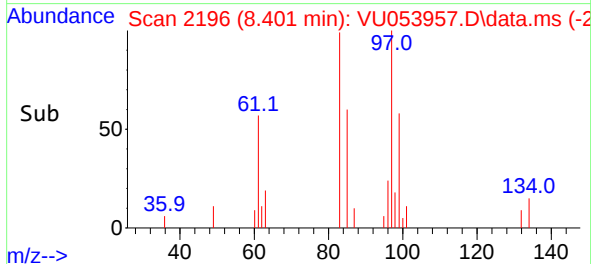
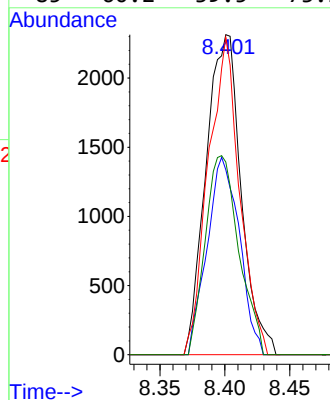
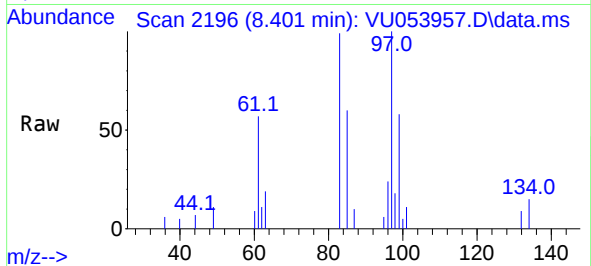


#45
1,1,2-Trichloroethane
Concen: 0.699 ug/L
RT: 8.401 min Scan# 2195
Delta R.T. 0.006 min
Lab File: VU053957.D
Acq: 28 Apr 2023 00:06

Instrument :
MSVOA_U
ClientSampleId :
HOA36

Tgt Ion: 97 Resp: 4343

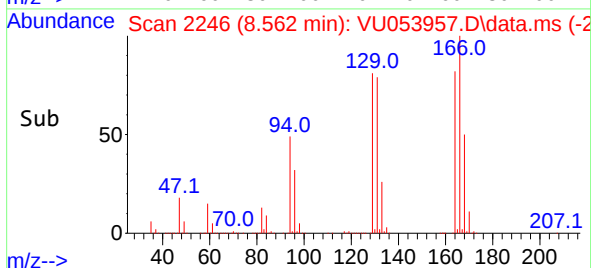
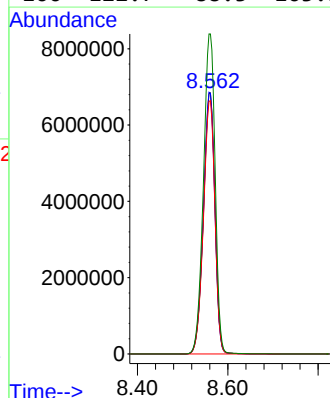
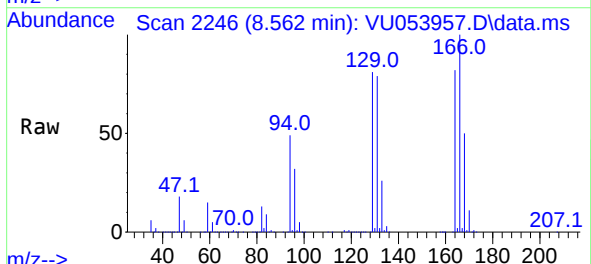
Ion	Ratio	Lower	Upper
97	100		
99	57.8	44.7	83.1
83	99.1	59.8	111.1
85	60.2	39.5	73.3

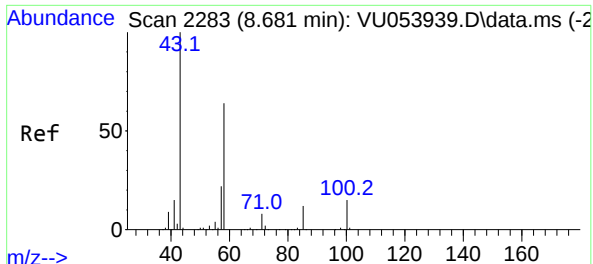


#47
Tetrachloroethene
Concen: 1684.890 ug/L
RT: 8.562 min Scan# 2246
Delta R.T. 0.013 min
Lab File: VU053957.D
Acq: 28 Apr 2023 00:06

Tgt Ion: 164 Resp: 12164452

Ion	Ratio	Lower	Upper
164	100		
129	99.9	68.3	126.8
131	97.1	64.4	119.6
166	122.7	88.3	163.9





#48

2-Hexanone

Concen: 0.948 ug/L

RT: 8.680 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU053957.D

Acq: 28 Apr 2023 00:06

Instrument :

MSVOA_U

ClientSampleId :

HOA36

Tgt Ion: 43 Resp: 2697

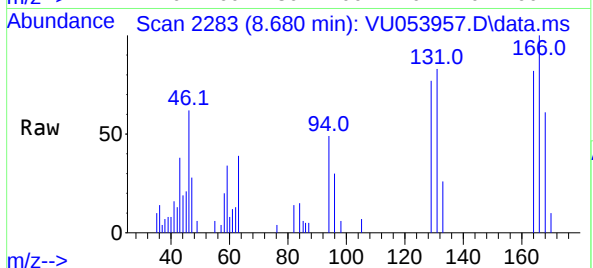
Ion Ratio Lower Upper

43 100

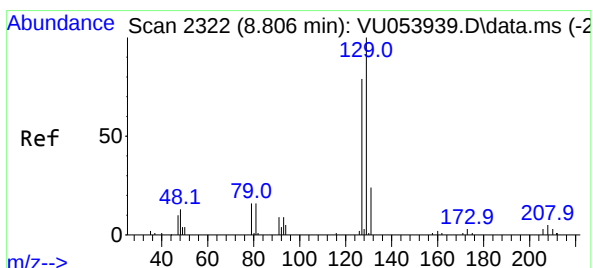
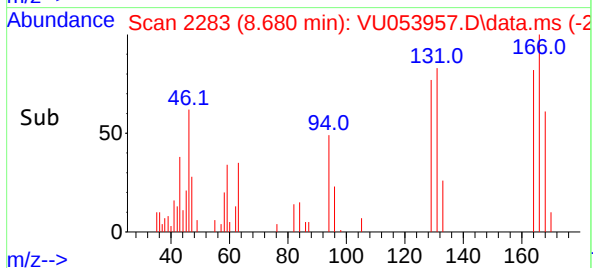
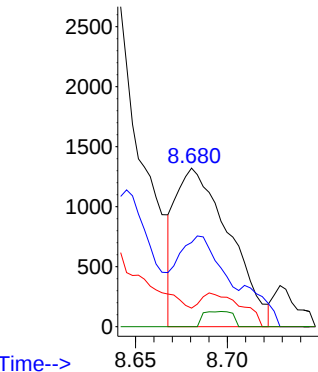
58 25.1 49.8 74.6#

57 16.5 16.9 25.3#

100 5.2 11.8 17.8#



Abundance



#49

Dibromochloromethane

Concen: 1841.341 ug/L

RT: 8.558 min Scan# 2245

Delta R.T. -0.248 min

Lab File: VU053957.D

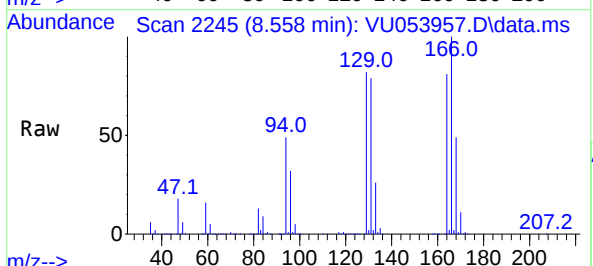
Acq: 28 Apr 2023 00:06

Tgt Ion:129 Resp:12119439

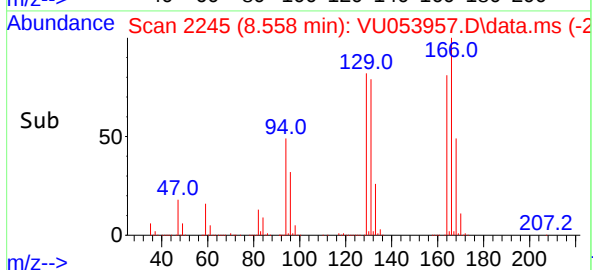
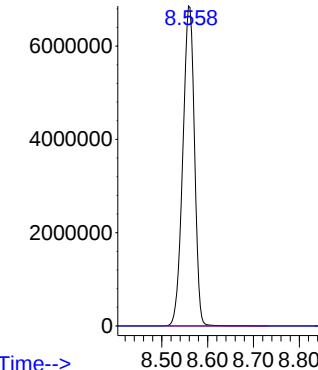
Ion Ratio Lower Upper

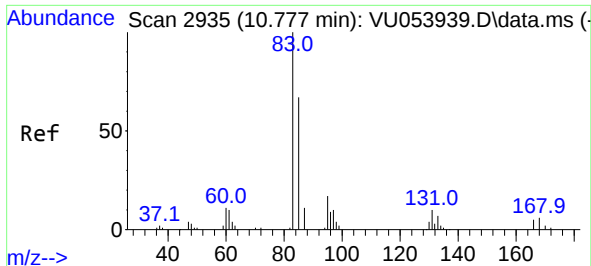
129 100

127 0.0 55.7 103.5#



Abundance

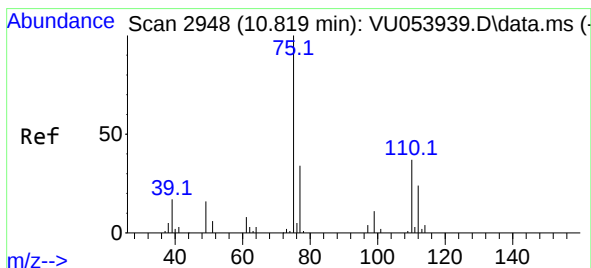
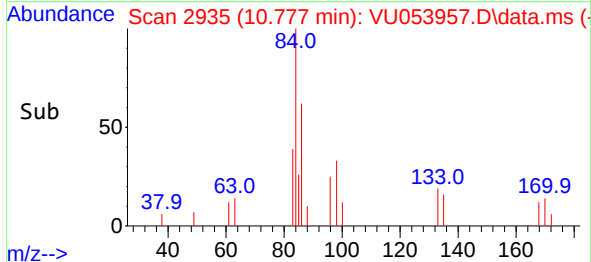
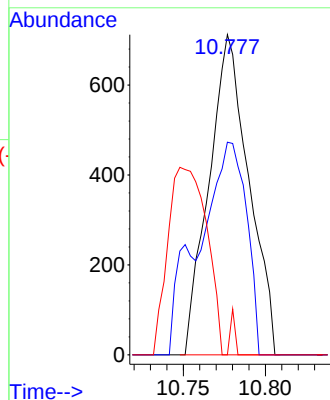
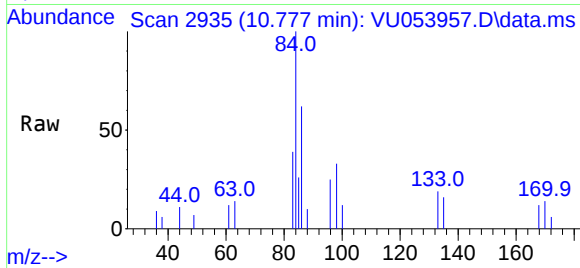




#57
 1,1,2,2-Tetrachloroethane
 Concen: 0.162 ug/L
 RT: 10.777 min Scan# 2935
 Delta R.T. -0.000 min
 Lab File: VU053957.D
 Acq: 28 Apr 2023 00:06

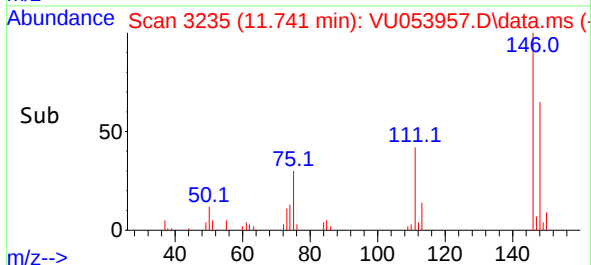
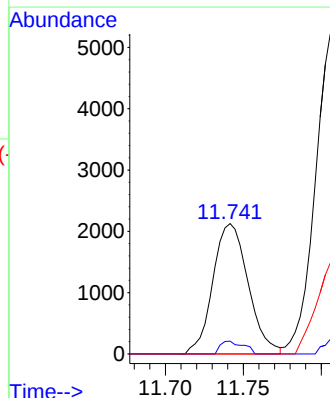
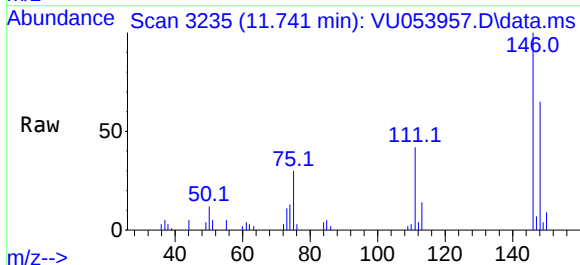
Instrument :
 MSVOA_U
 ClientSampleId :
 HOA36

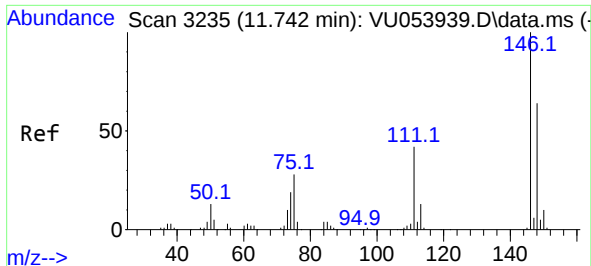
Tgt Ion: 83 Resp: 1200
 Ion Ratio Lower Upper
 83 100
 85 66.4 43.5 80.9
 131 0.0 7.8 11.6#



#61
 1,2,3-Trichloropropane
 Concen: 0.701 ug/L
 RT: 11.741 min Scan# 3235
 Delta R.T. 0.923 min
 Lab File: VU053957.D
 Acq: 28 Apr 2023 00:06

Tgt Ion: 75 Resp: 3348
 Ion Ratio Lower Upper
 75 100
 110 6.4 30.7 46.1#
 77 0.0 26.2 39.4#

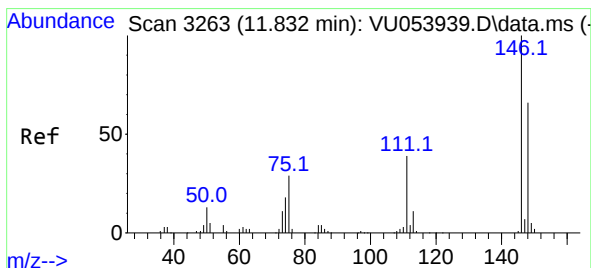
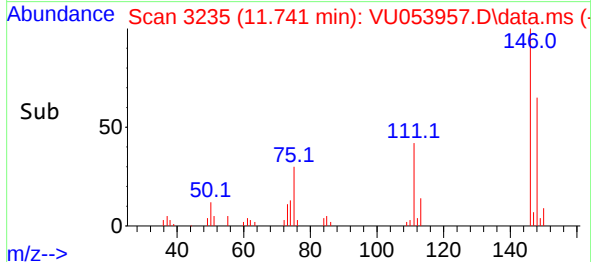
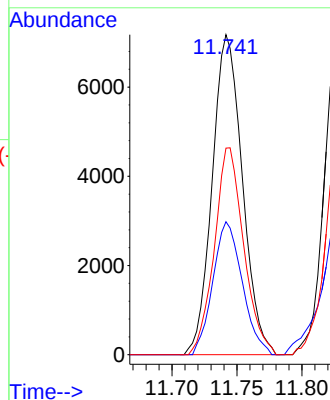
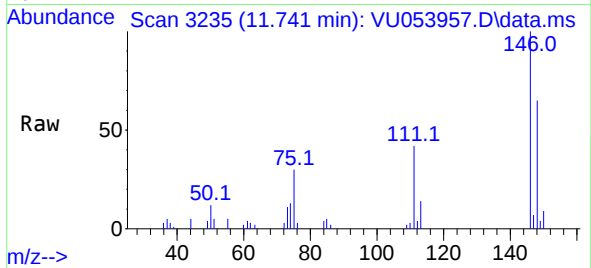




#64
1,3-Dichlorobenzene
Concen: 0.622 ug/L
RT: 11.741 min Scan# 311
Delta R.T. -0.000 min
Lab File: VU053957.D
Acq: 28 Apr 2023 00:06

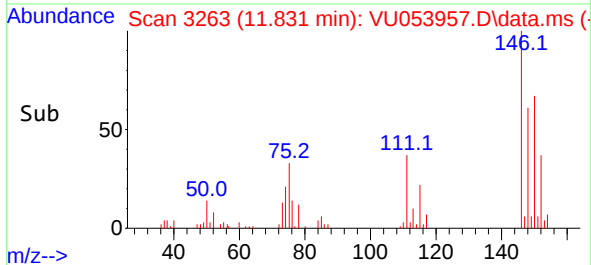
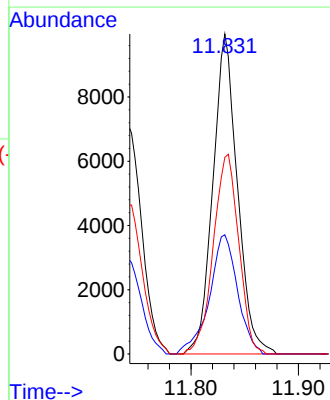
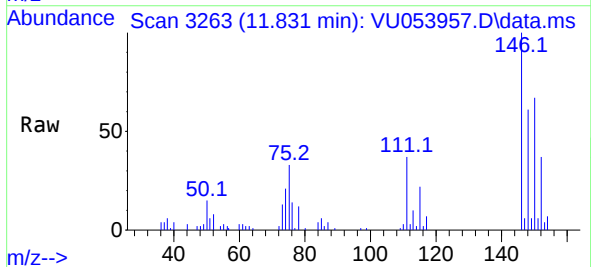
Instrument :
MSVOA_U
ClientSampleId :
HOA36

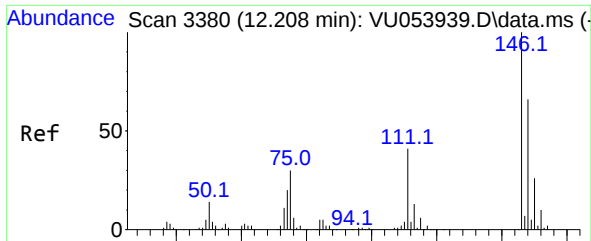
Tgt Ion:146 Resp: 11575
Ion Ratio Lower Upper
146 100
111 41.5 27.9 51.9
148 64.5 43.7 81.1



#65
1,4-Dichlorobenzene
Concen: 0.839 ug/L
RT: 11.831 min Scan# 3263
Delta R.T. -0.000 min
Lab File: VU053957.D
Acq: 28 Apr 2023 00:06

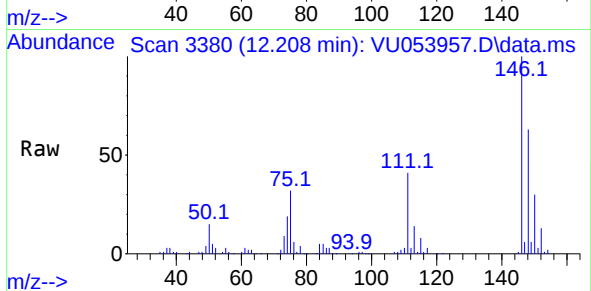
Tgt Ion:146 Resp: 15787
Ion Ratio Lower Upper
146 100
111 37.2 28.3 52.7
148 61.4 45.4 84.2





#67
 1,2-Dichlorobenzene
 Concen: 4.115 ug/L
 RT: 12.208 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VU053957.D
 Acq: 28 Apr 2023 00:06

Instrument :
 MSVOA_U
 ClientSampleId :
 HOA36



Tgt Ion:146 Resp: 70770

Ion	Ratio	Lower	Upper
146	100		
111	40.9	32.6	49.0
148	62.9	51.0	76.4

