

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU042823\
 Data File : VU053957.D
 Acq On : 28 Apr 2023 00:06
 Operator : JC/MD
 Sample : 02528-04
 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	0.000	65	0d	0.000	ug/L	
Spiked Amount	5.000	Range	60 - 125	Recovery	=	0.000%#
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
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
57) 1,1,2,2-Tetrachloroethane	10.777	83	1200	0.162	ug/L #	92
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

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QLast Update : Thu Apr 27 05:52:18 2023
Response via : Initial Calibration

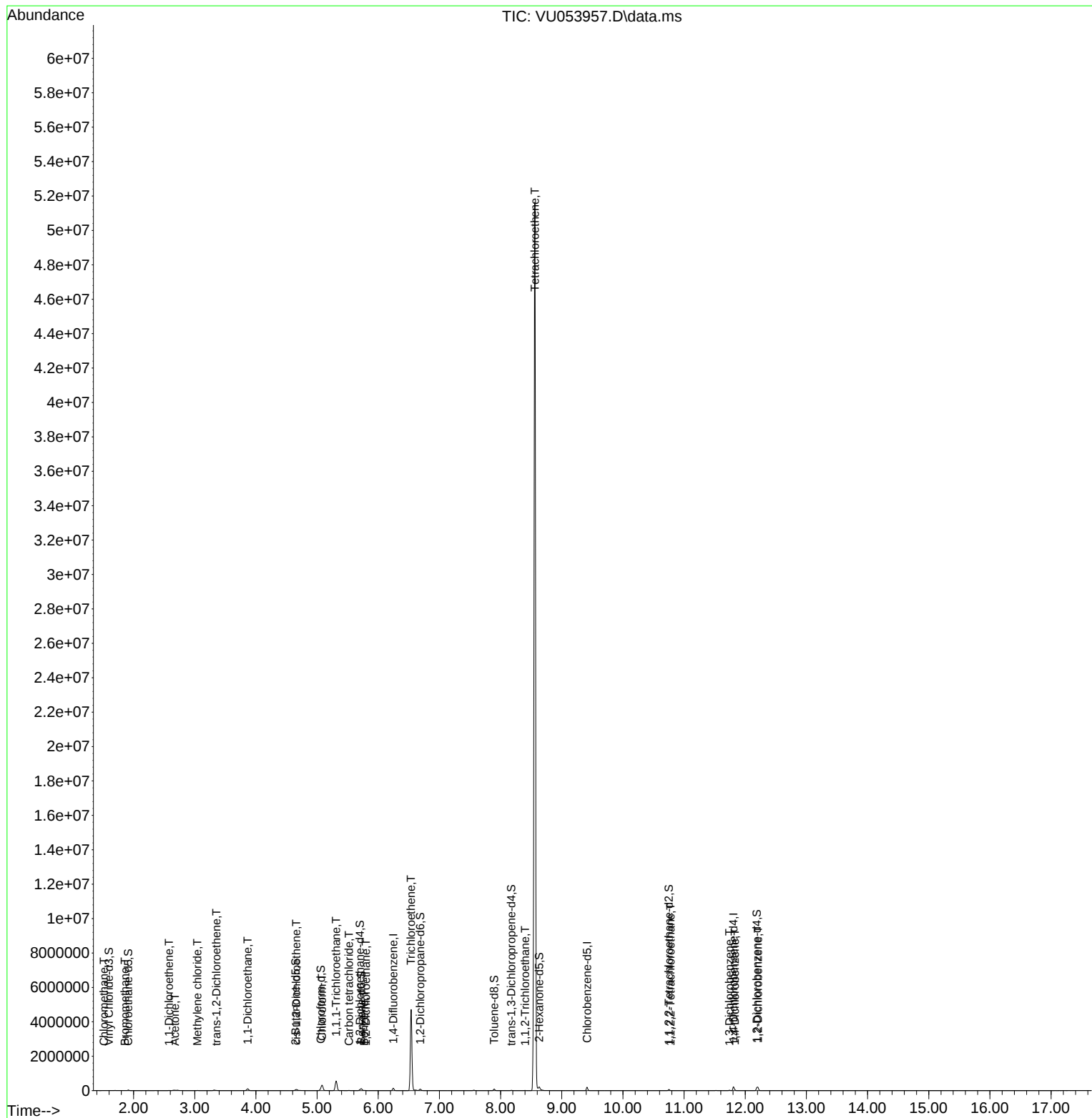
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,2-Dichlorobenzene	12.208	146	70770	4.115	ug/L	99

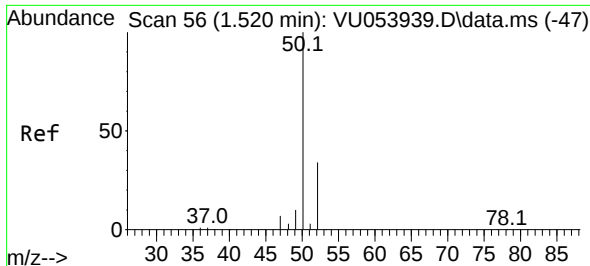
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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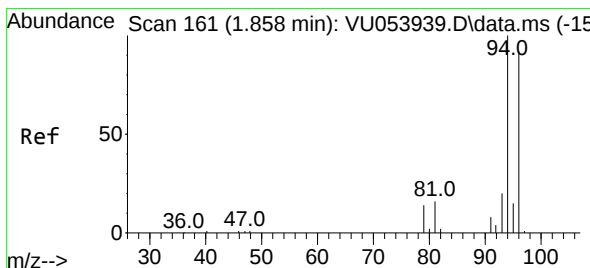
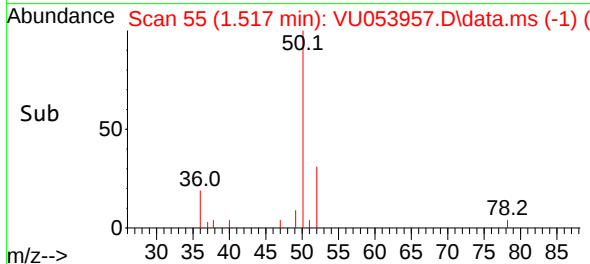
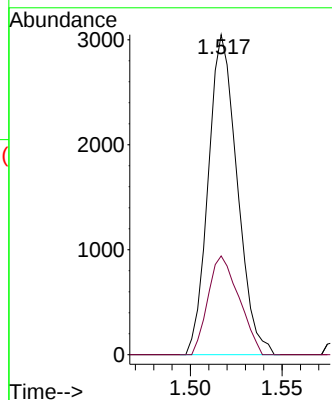
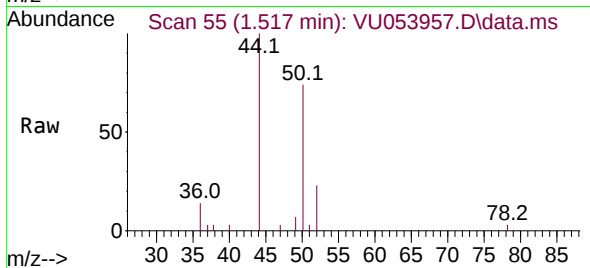




#3
Chloromethane
Concen: 0.383 ug/L
RT: 1.517 min Scan# 51
Delta R.T. -0.003 min
Lab File: VU053957.D
Acq: 28 Apr 2023 00:06

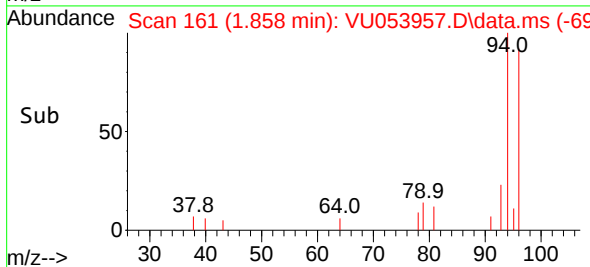
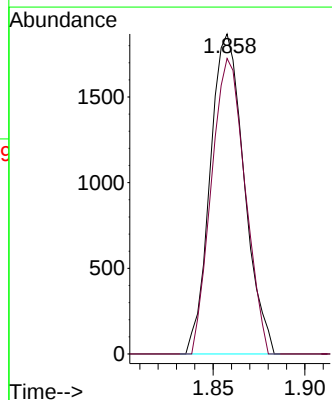
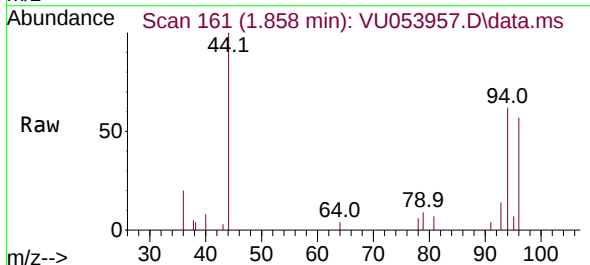
Instrument :
MSVOA_U
ClientSampleId :
HOA36

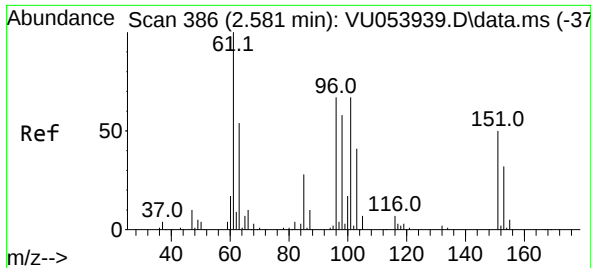
Tgt Ion: 50 Resp: 3347
Ion Ratio Lower Upper
50 100
52 30.8 23.4 43.6



#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

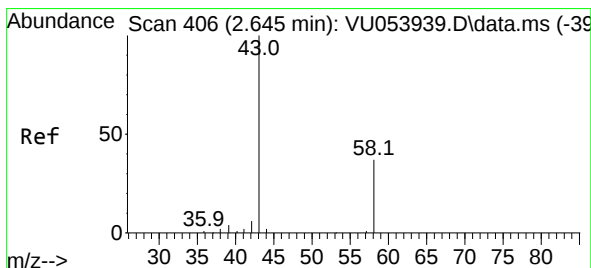
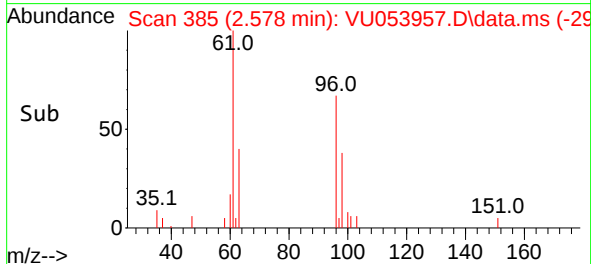
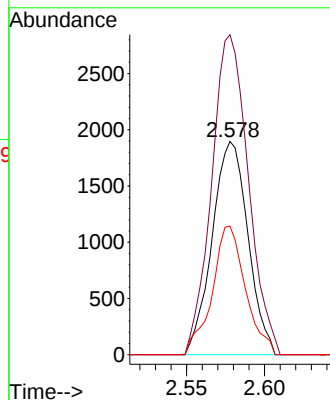
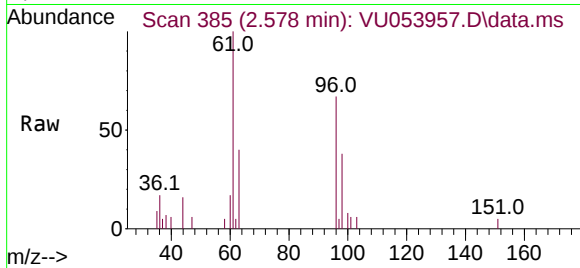




#12
1,1-Dichloroethene
Concen: 0.397 ug/L
RT: 2.578 min Scan# 311
Delta R.T. -0.000 min
Lab File: VU053957.D
Acq: 28 Apr 2023 00:06

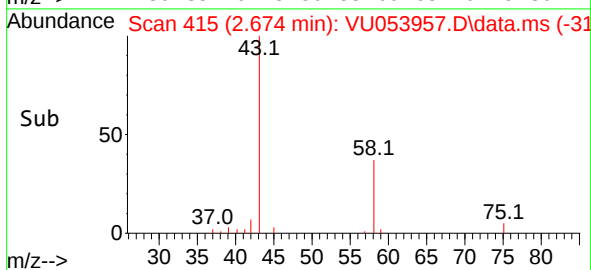
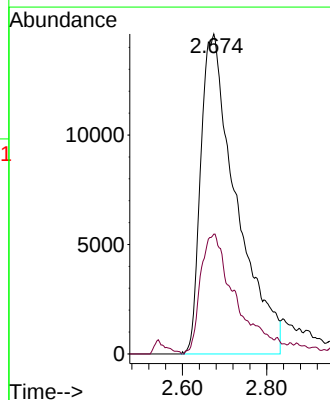
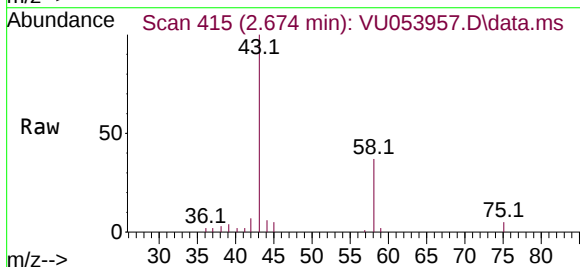
Instrument :
MSVOA_U
ClientSampleId :
HOA36

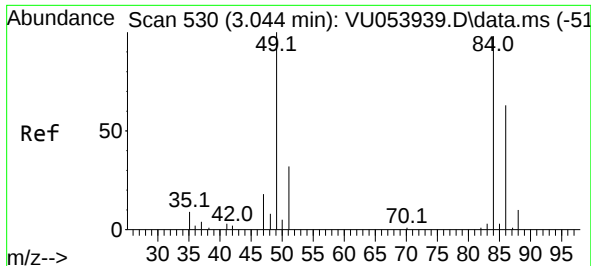
Tgt Ion: 96 Resp: 3030
Ion Ratio Lower Upper
96 100
61 150.1 111.5 207.1
63 60.3 68.7 127.7#



#13
Acetone
Concen: 77.671 ug/L
RT: 2.674 min Scan# 415
Delta R.T. 0.013 min
Lab File: VU053957.D
Acq: 28 Apr 2023 00:06

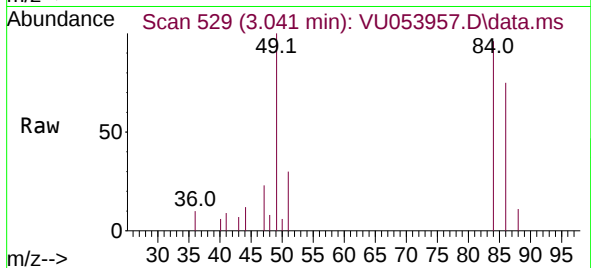
Tgt Ion: 43 Resp: 85266
Ion Ratio Lower Upper
43 100
58 32.9 0.0 76.2





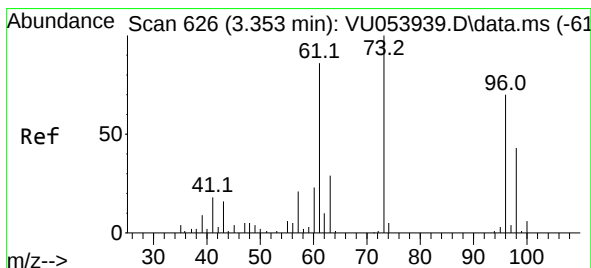
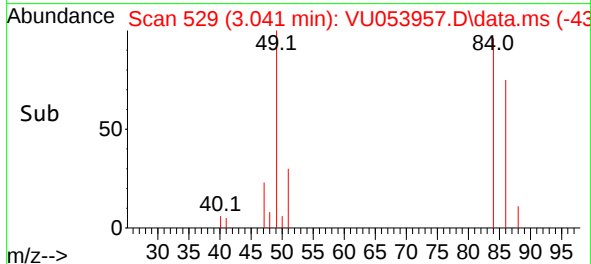
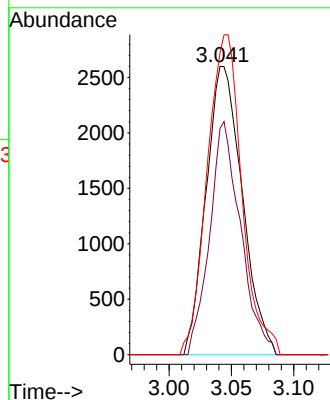
#16
Methylene chloride
Concen: 0.504 ug/L
RT: 3.041 min Scan# 51
Delta R.T. -0.003 min
Lab File: VU053957.D
Acq: 28 Apr 2023 00:06

Instrument :
MSVOA_U
ClientSampleId :
HOA36



Tgt Ion: 84 Resp: 5248

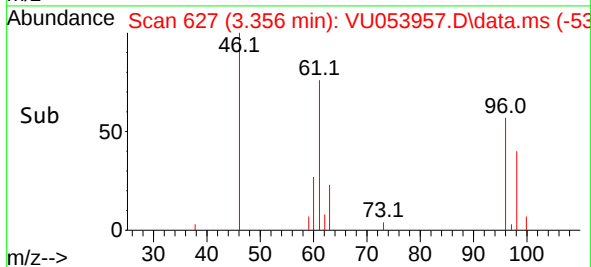
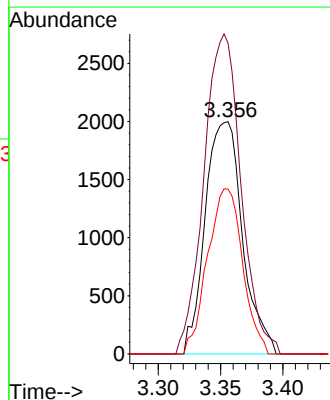
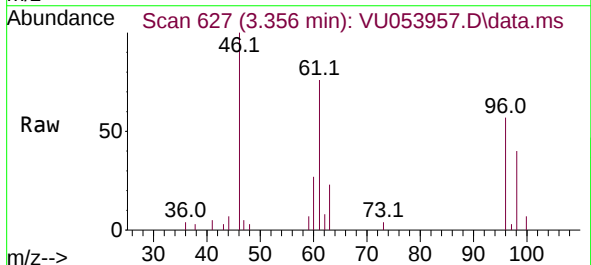
Ion	Ratio	Lower	Upper
84	100		
86	78.5	45.0	83.6
49	104.7	74.8	138.8

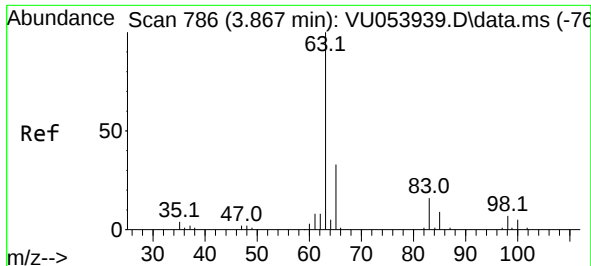


#18
trans-1,2-Dichloroethene
Concen: 0.540 ug/L
RT: 3.356 min Scan# 627
Delta R.T. 0.003 min
Lab File: VU053957.D
Acq: 28 Apr 2023 00:06

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 :

MSVOA_U

ClientSampleId :

HOA36

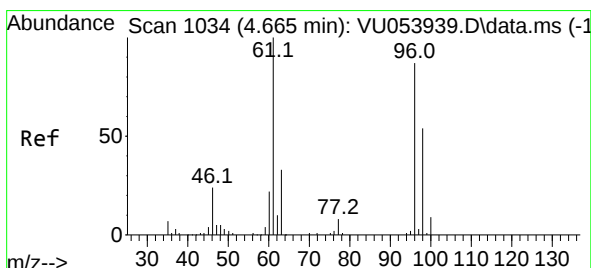
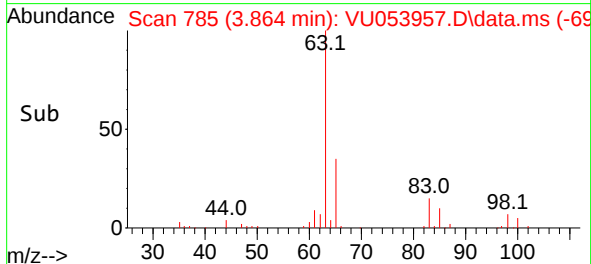
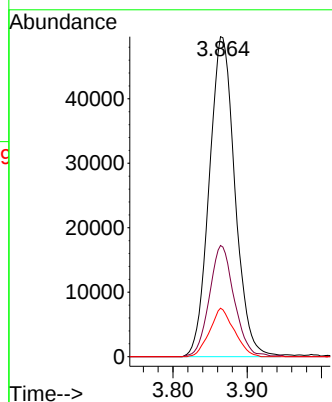
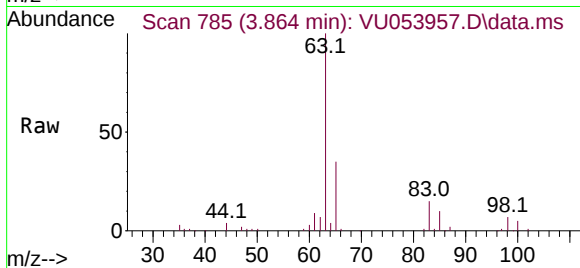
Tgt Ion: 63 Resp: 119173

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

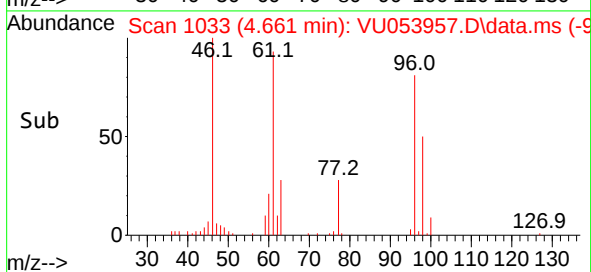
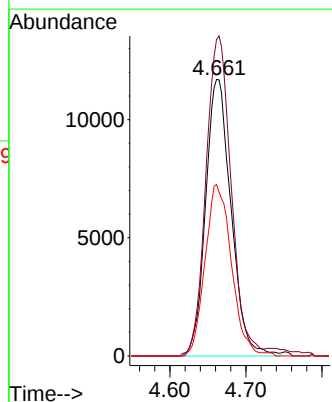
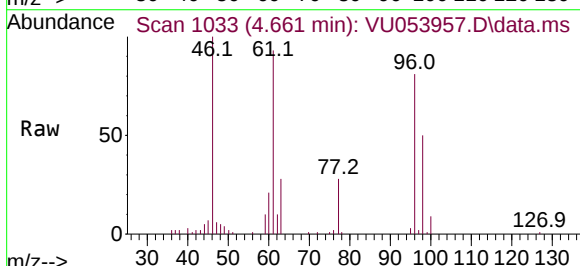
Tgt Ion: 96 Resp: 27261

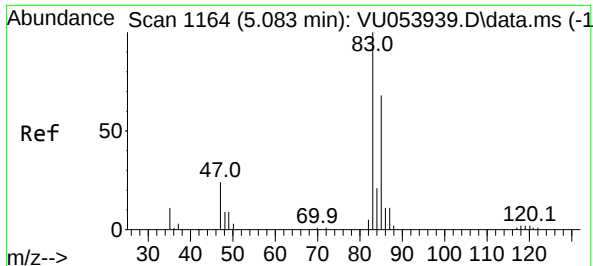
Ion Ratio Lower Upper

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

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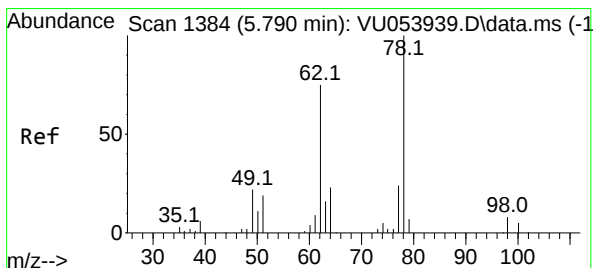
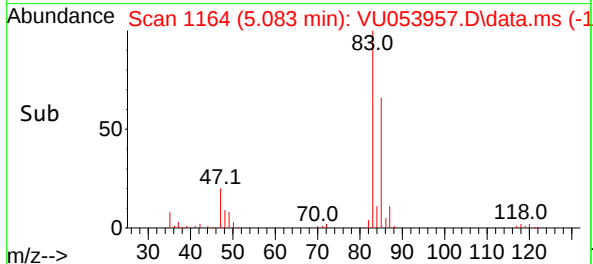
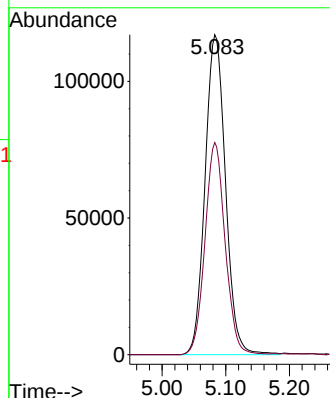
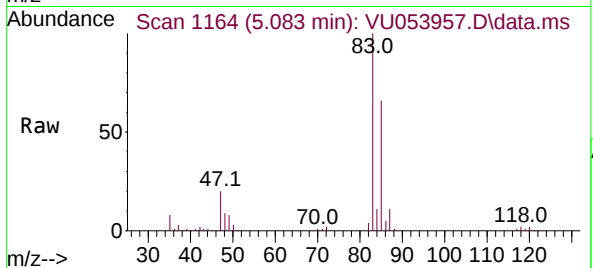
HOA36

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

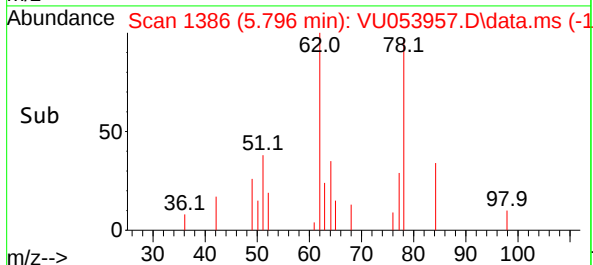
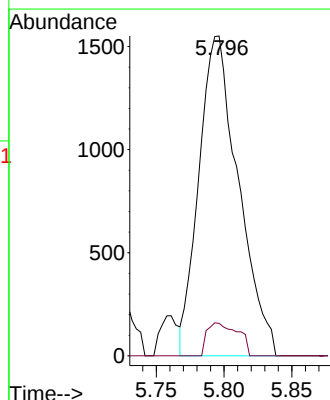
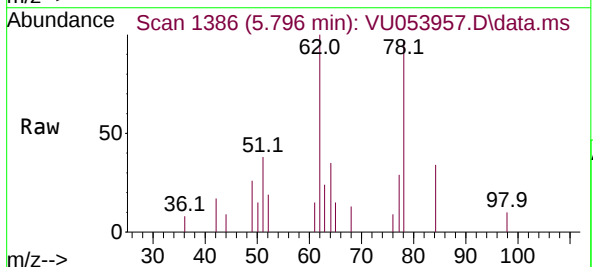
Acq: 28 Apr 2023 00:06

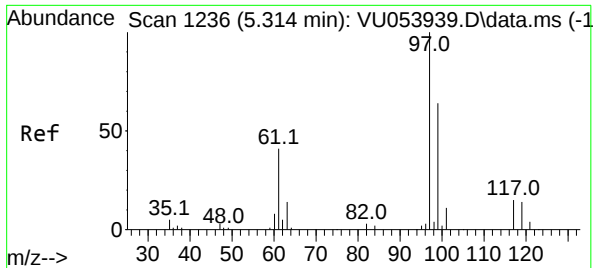
Tgt Ion: 62 Resp: 3147

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# 1

Delta R.T. -0.003 min

Lab File: VU053957.D

Acq: 28 Apr 2023 00:06

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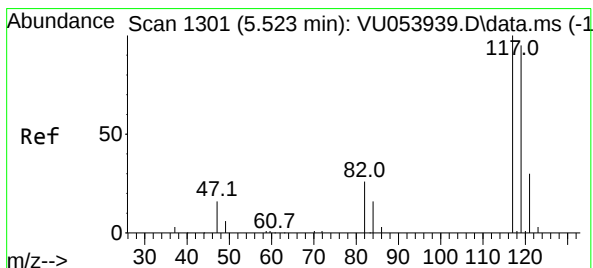
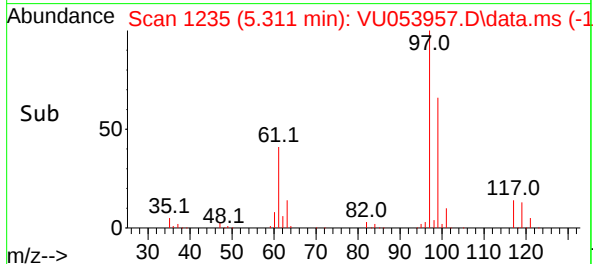
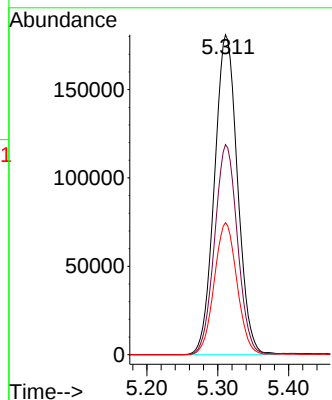
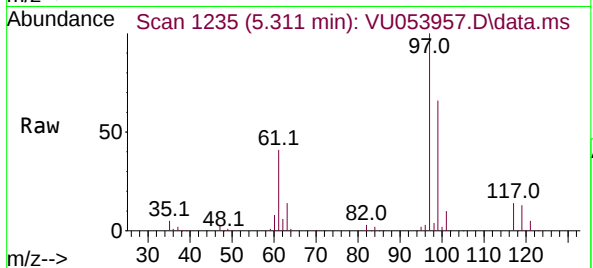
Tgt Ion: 97 Resp: 410049

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

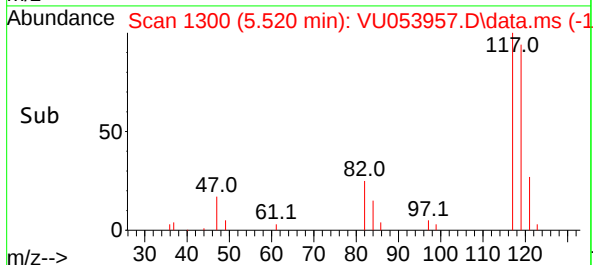
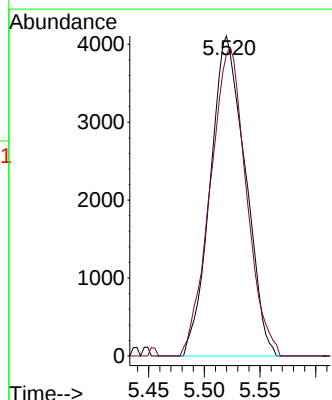
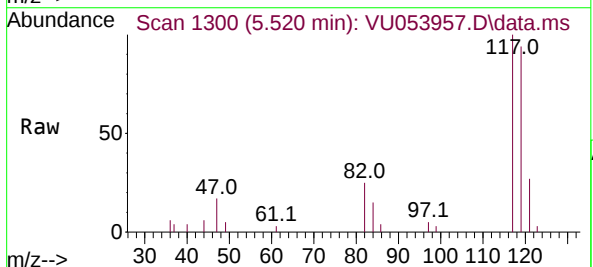
Acq: 28 Apr 2023 00:06

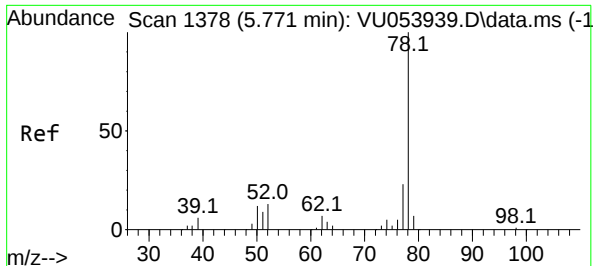
Tgt Ion: 117 Resp: 8954

Ion Ratio Lower Upper

117 100

119 99.3 75.0 112.6

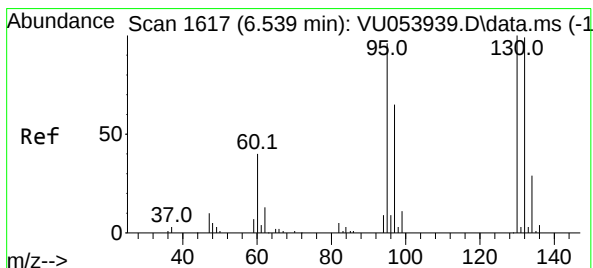
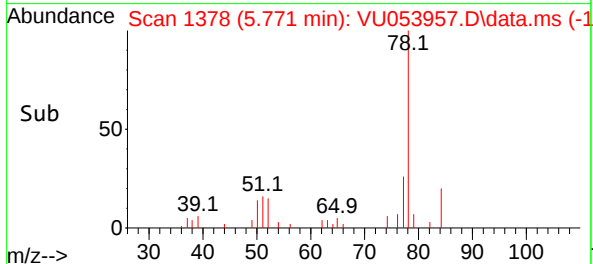
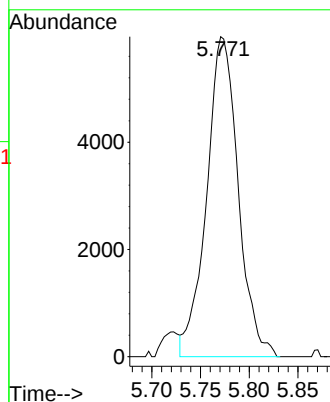
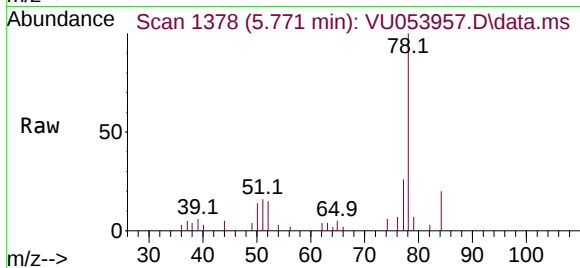




#33
Benzene
Concen: 0.403 ug/L
RT: 5.771 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU053957.D
Acq: 28 Apr 2023 00:06

Instrument :
MSVOA_U
ClientSampleId :
HOA36

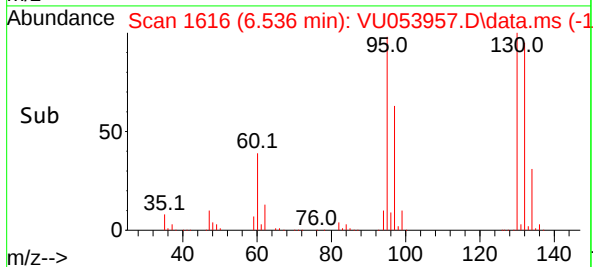
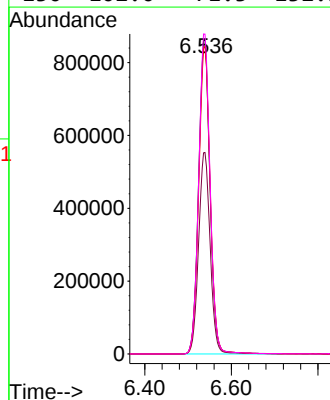
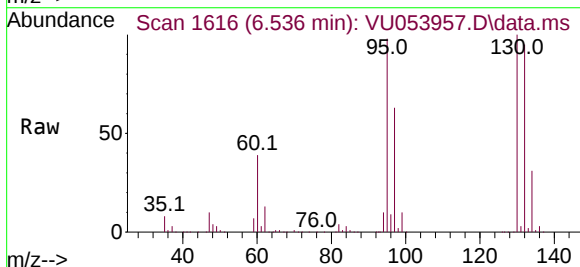
Tgt Ion: 78 Resp: 13465

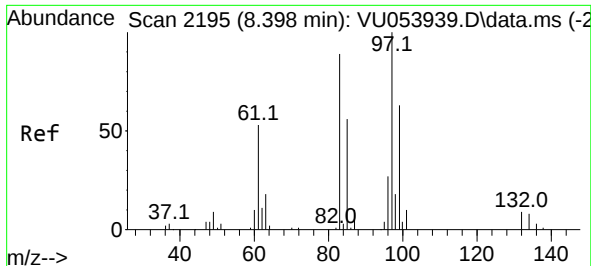


#34
Trichloroethene
Concen: 173.806 ug/L
RT: 6.536 min Scan# 1616
Delta R.T. -0.003 min
Lab File: VU053957.D
Acq: 28 Apr 2023 00:06

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



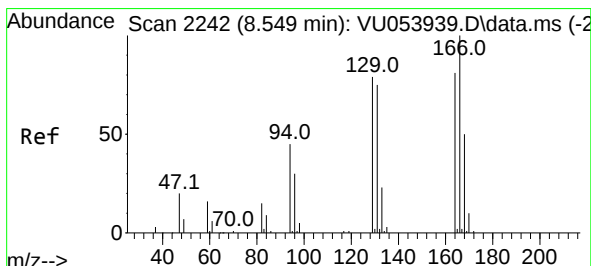
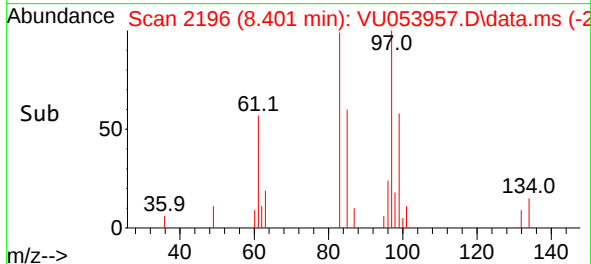
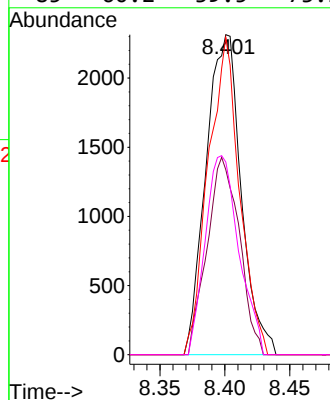
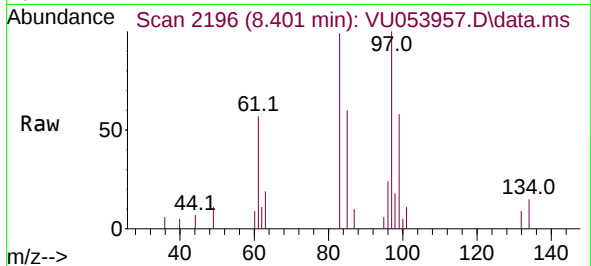


#45
1,1,2-Trichloroethane
Concen: 0.699 ug/L
RT: 8.401 min Scan# 2195
Delta R.T. 0.006 min
Lab File: VU053957.D
Acq: 28 Apr 2023 00:06

Instrument :
MSVOA_U
ClientSampleId :
HOA36

Tgt Ion: 97 Resp: 4343

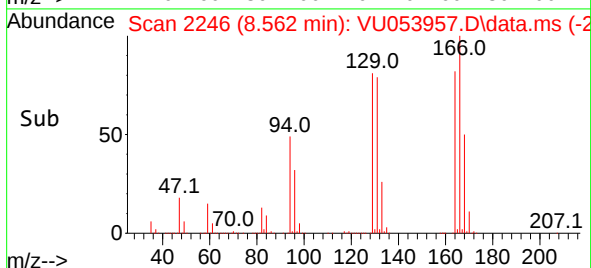
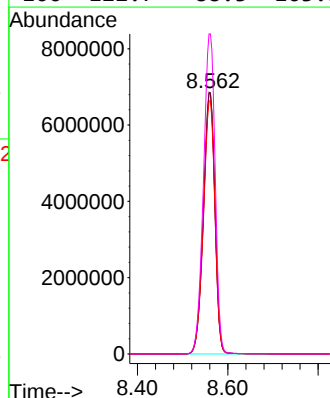
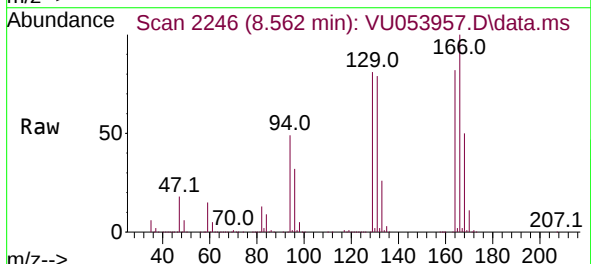
Ion	Ratio	Lower	Upper
97	100		
99	57.8	44.7	83.1
83	99.1	59.8	111.1
85	60.2	39.5	73.3

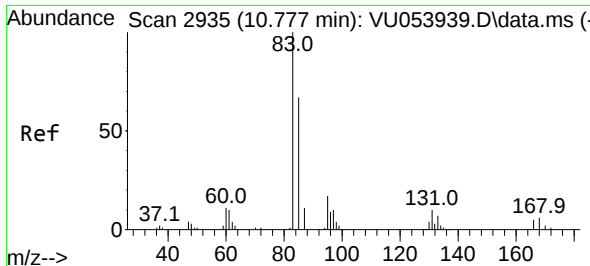


#47
Tetrachloroethene
Concen: 1684.890 ug/L
RT: 8.562 min Scan# 2246
Delta R.T. 0.013 min
Lab File: VU053957.D
Acq: 28 Apr 2023 00:06

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

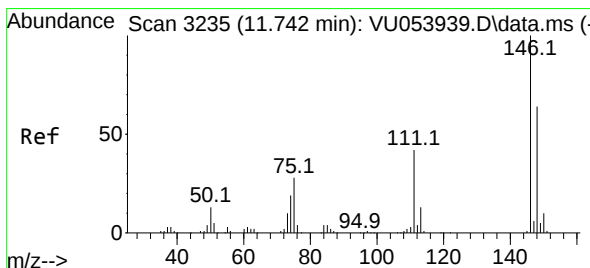
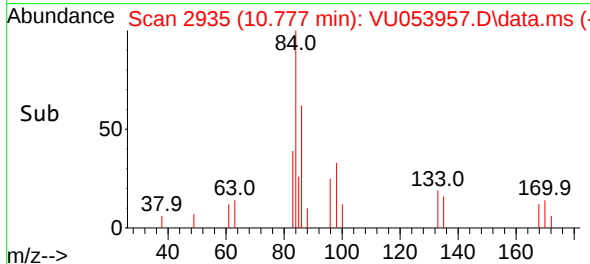
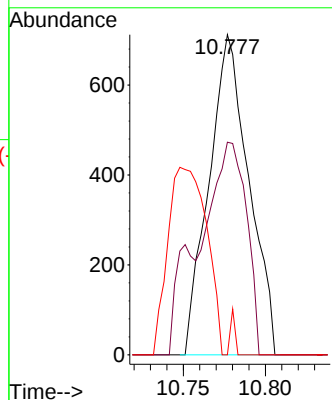
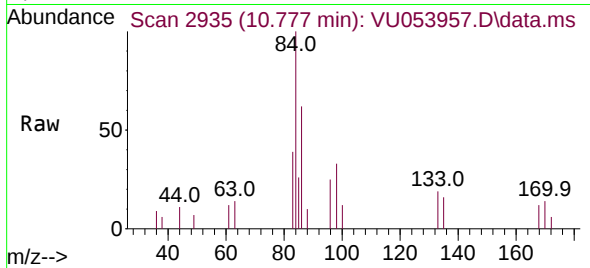




#57
 1,1,2,2-Tetrachloroethane
 Concen: 0.162 ug/L
 RT: 10.777 min Scan# 2935
 Delta R.T. -0.000 min
 Lab File: VU053957.D
 Acq: 28 Apr 2023 00:06

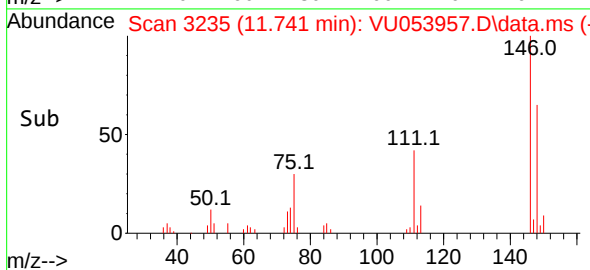
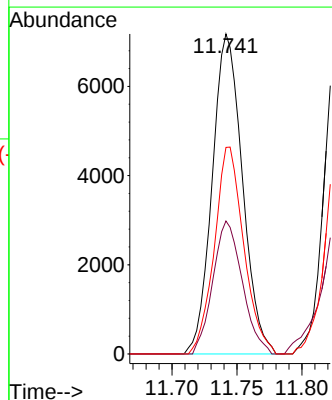
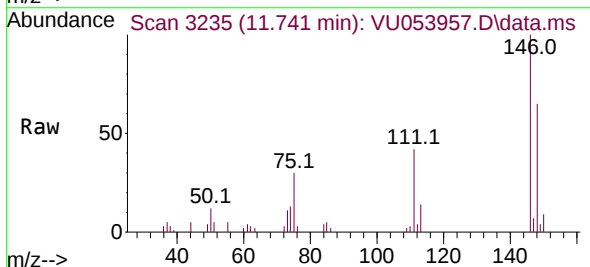
Instrument :
 MSVOA_U
 ClientSampleId :
 HOA36

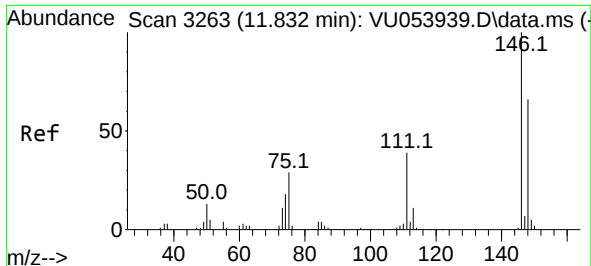
Tgt Ion: 83 Resp: 1200
 Ion Ratio Lower Upper
 83 100
 85 66.4 43.5 80.9
 131 0.0 7.8 11.6#



#64
 1,3-Dichlorobenzene
 Concen: 0.622 ug/L
 RT: 11.741 min Scan# 3235
 Delta R.T. -0.000 min
 Lab File: VU053957.D
 Acq: 28 Apr 2023 00:06

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# 31

Delta R.T. -0.000 min

Lab File: VU053957.D

Acq: 28 Apr 2023 00:06

Instrument :

MSVOA_U

ClientSampleId :

HOA36

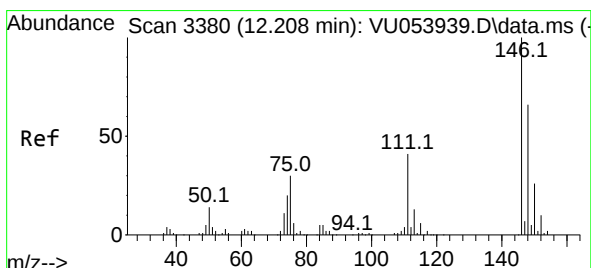
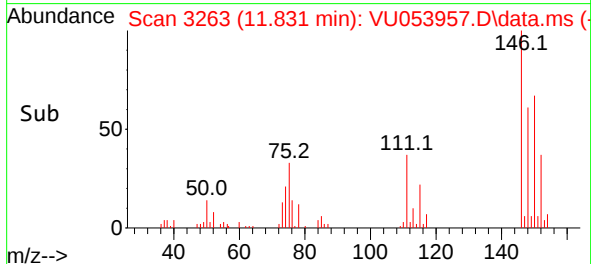
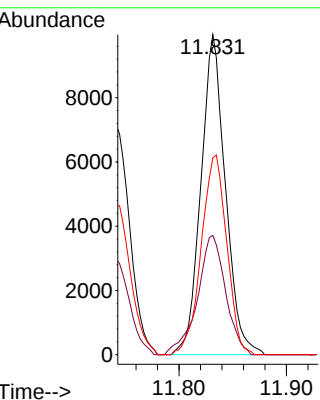
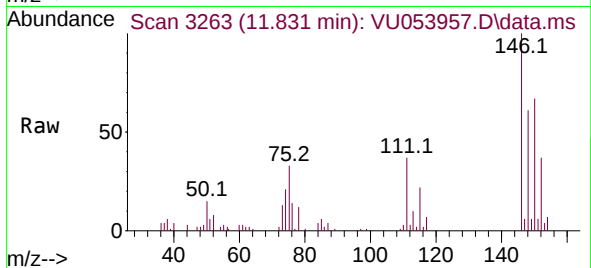
Tgt Ion:146 Resp: 15787

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# 3380

Delta R.T. -0.000 min

Lab File: VU053957.D

Acq: 28 Apr 2023 00:06

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

