

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U042823\
 Data File : U053956.D
 Acq On : 27 Apr 2023 23:42
 Operator : JC/MD
 Sample : 02525-03
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 HOA35

Quant Time: Apr 28 07:22:21 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	135818	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	130959	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	62872	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	28354	3.427	ug/L	0.00
Spiked Amount	5.000	Range 40 - 130	Recovery	=	68.600%	
7) Chloroethane-d5	1.912	69	27319	3.935	ug/L	0.00
Spiked Amount	5.000	Range 65 - 130	Recovery	=	78.600%	
11) 1,1-Dichloroethene-d2	2.565	65	13651	4.010	ug/L	0.00
Spiked Amount	5.000	Range 60 - 125	Recovery	=	80.200%	
20) 2-Butanone-d5	4.639	46	75525	49.845	ug/L	0.00
Spiked Amount	50.000	Range 40 - 130	Recovery	=	99.700%	
24) Chloroform-d	5.057	84	71924	4.614	ug/L	0.00
Spiked Amount	5.000	Range 70 - 125	Recovery	=	92.200%	
26) 1,2-Dichloroethane-d4	5.700	65	33734	4.682	ug/L	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	=	93.600%	
32) Benzene-d6	5.726	84	133402	4.324	ug/L	0.00
Spiked Amount	5.000	Range 70 - 125	Recovery	=	86.400%	
36) 1,2-Dichloropropane-d6	6.687	67	43141	4.622	ug/L	0.00
Spiked Amount	5.000	Range 60 - 140	Recovery	=	92.400%	
41) Toluene-d8	7.896	98	118601	4.119	ug/L	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	=	82.400%	
43) trans-1,3-Dichloroprop...	8.176	79	15342	4.180	ug/L	0.00
Spiked Amount	5.000	Range 55 - 130	Recovery	=	83.600%	
46) 2-Hexanone-d5	8.629	63	65811	50.662	ug/L	0.00
Spiked Amount	50.000	Range 45 - 130	Recovery	=	101.320%	
56) 1,1,2,2-Tetrachloroeth...	10.751	84	32596	4.322	ug/L	0.00
Spiked Amount	5.000	Range 65 - 120	Recovery	=	86.400%	
66) 1,2-Dichlorobenzene-d4	12.189	152	45980	4.560	ug/L	0.00
Spiked Amount	5.000	Range 80 - 120	Recovery	=	91.200%	
Target Compounds						
					Qvalue	
10) 1,1,2-Trichloro-1,2,2-...	2.575	101	5092	0.526	ug/L #	42
12) 1,1-Dichloroethene	2.578	96	1668029	195.255	ug/L #	76
16) Methylene chloride	3.044	84	3446	0.296	ug/L	95
18) trans-1,2-Dichloroethene	3.359	96	1349	0.156	ug/L	91
19) 1,1-Dichloroethane	3.864	63	31300	2.003	ug/L	97
22) cis-1,2-Dichloroethene	4.662	96	55256	5.674	ug/L	94
25) Chloroform	5.083	83	103059	6.074	ug/L	100
27) 1,2-Dichloroethane	5.787	62	1556	0.160	ug/L #	71
29) 1,1,1-Trichloroethane	5.311	97	222444	15.110	ug/L	99
31) Carbon tetrachloride	5.520	117	69542	5.434	ug/L	95
33) Benzene	5.771	78	23851	0.646	ug/L	100
34) Trichloroethene	6.539	95	5682514	564.914	ug/L	98
35) Methylcyclohexane	6.684	83	10498	0.676	ug/L #	31
37) 1,2-Dichloropropane	6.690	63	4426	0.483	ug/L #	87
45) 1,1,2-Trichloroethane	8.571	97	266921	38.885	ug/L #	46
48) 2-Hexanone	8.684	43	2109	0.672	ug/L #	52
61) 1,2,3-Trichloropropane	11.742	75	3064	0.632	ug/L #	47
64) 1,3-Dichlorobenzene	11.742	146	10387	0.550	ug/L	99
65) 1,4-Dichlorobenzene	11.832	146	11119	0.582	ug/L	97

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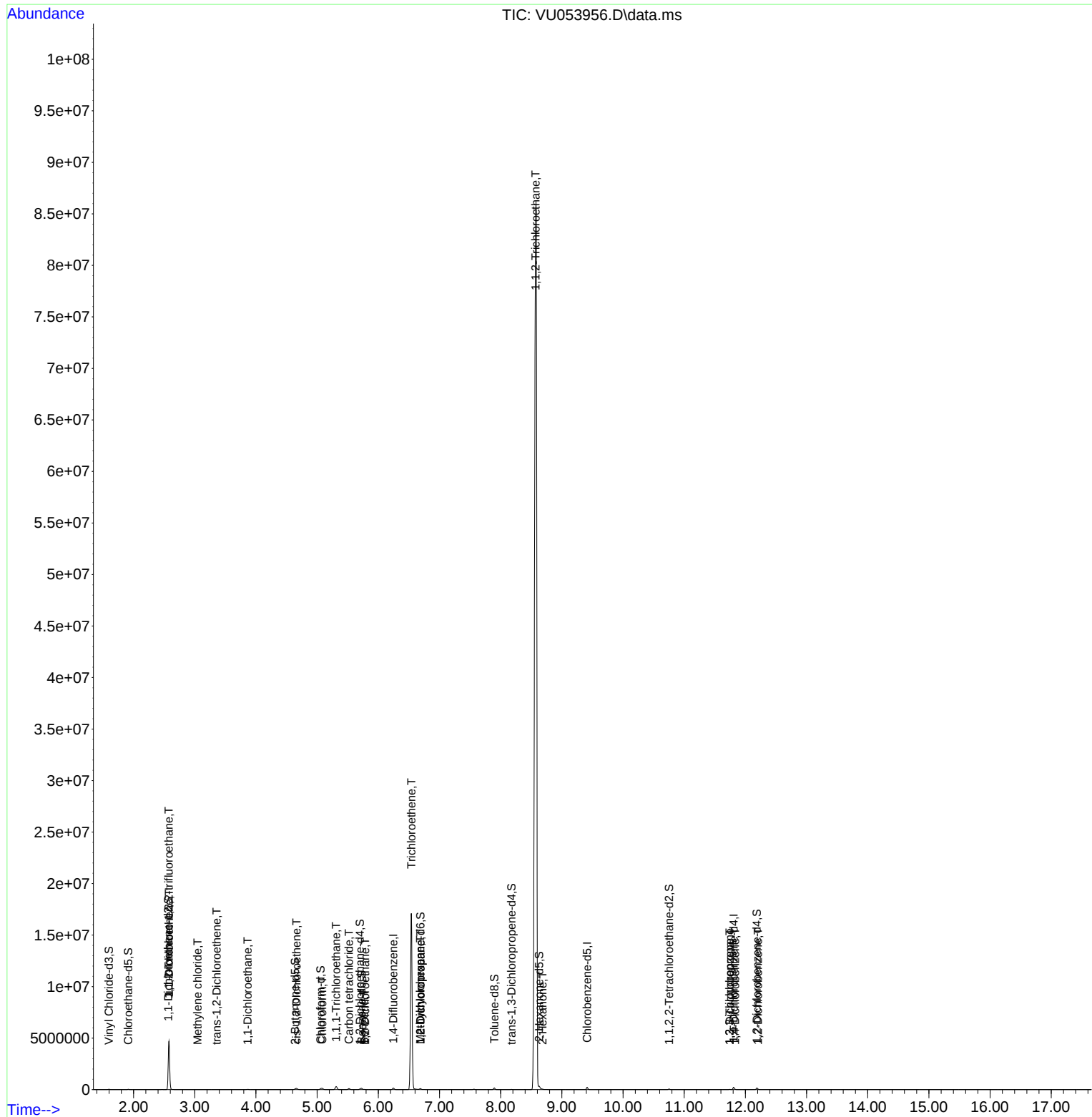
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,2-Dichlorobenzene	12.208	146	10241	0.587	ug/L	94

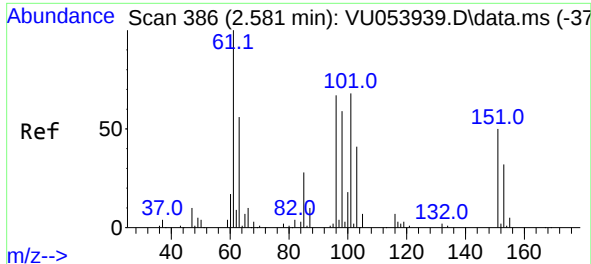
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.526 ug/L

RT: 2.575 min Scan# 384

Delta R.T. -0.006 min

Lab File: VU053956.D

Acq: 27 Apr 2023 23:42

Instrument :

MSVOA_U

ClientSampleId :

HOA35

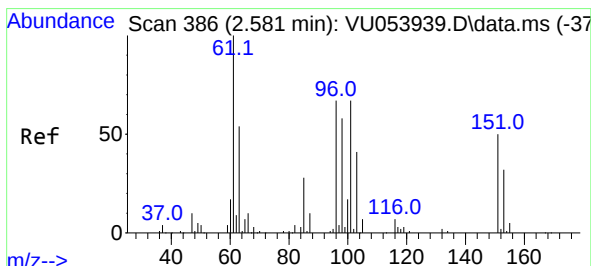
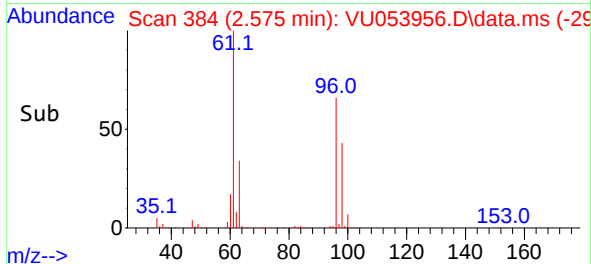
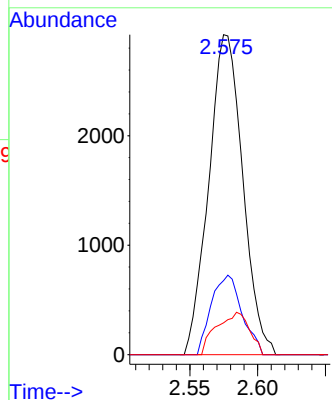
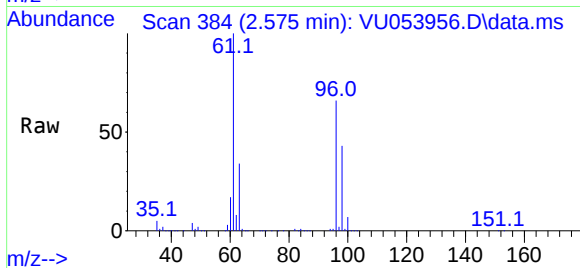
Tgt Ion:101 Resp: 5092

Ion Ratio Lower Upper

101 100

85 22.4 34.7 52.1#

151 12.8 59.1 88.7#



#12

1,1-Dichloroethene

Concen: 195.255 ug/L

RT: 2.578 min Scan# 385

Delta R.T. 0.000 min

Lab File: VU053956.D

Acq: 27 Apr 2023 23:42

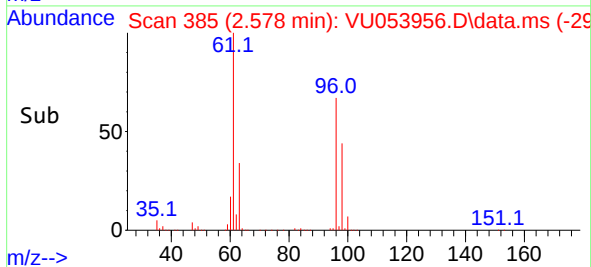
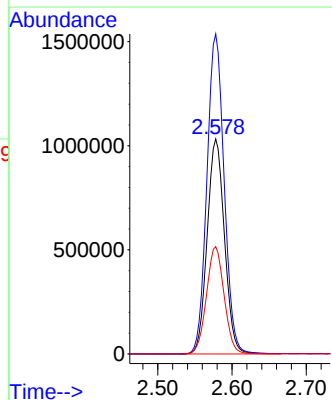
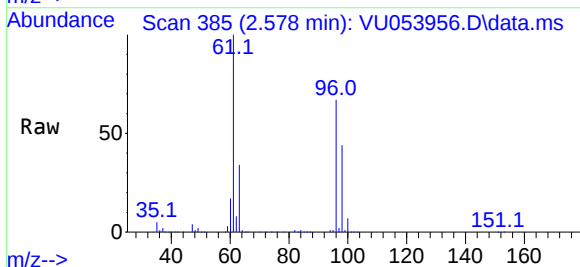
Tgt Ion: 96 Resp: 1668029

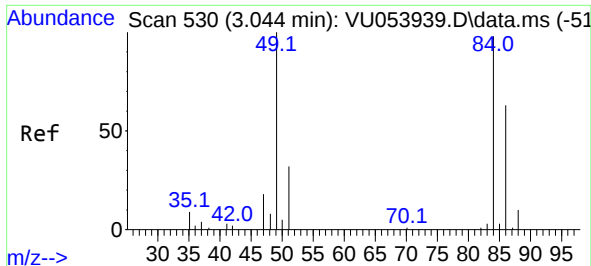
Ion Ratio Lower Upper

96 100

61 148.8 111.5 207.1

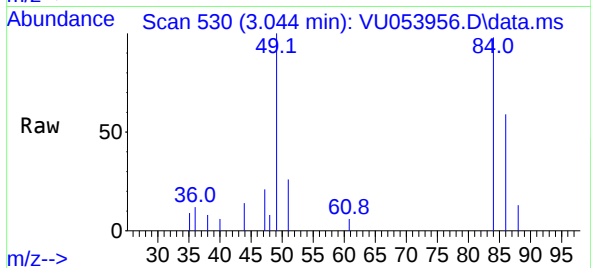
63 49.9 68.7 127.7#



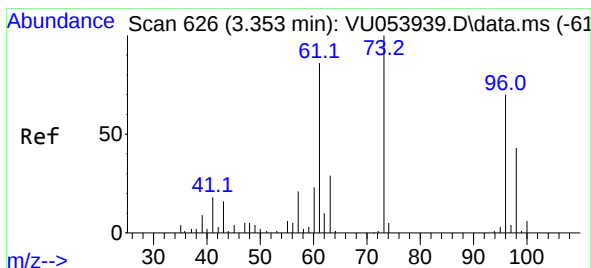
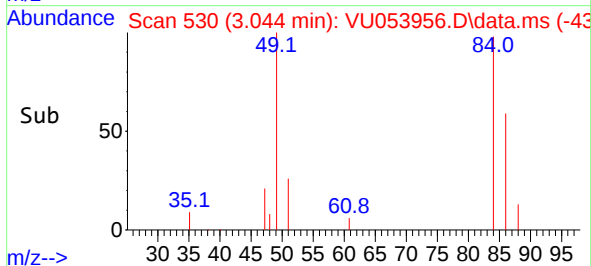
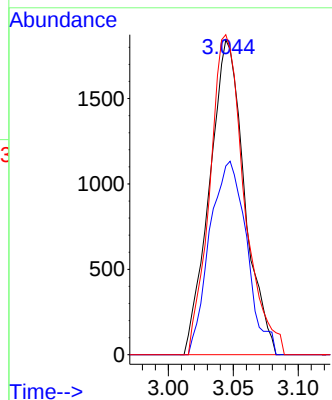


#16
Methylene chloride
Concen: 0.296 ug/L
RT: 3.044 min Scan# 51
Delta R.T. 0.000 min
Lab File: VU053956.D
Acq: 27 Apr 2023 23:42

Instrument :
MSVOA_U
ClientSampleId :
HOA35

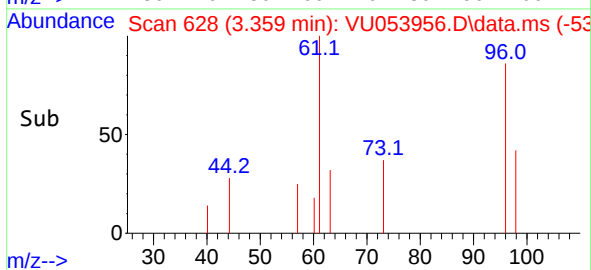
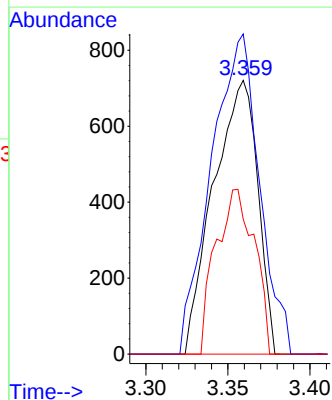
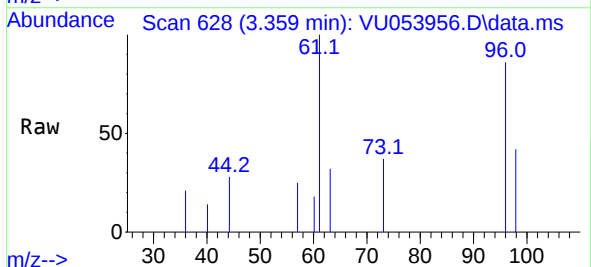


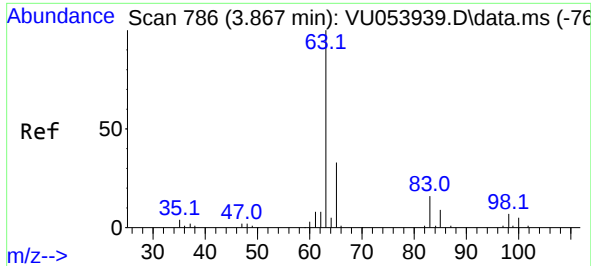
Tgt Ion: 84 Resp: 3446
Ion Ratio Lower Upper
84 100
86 60.0 45.0 83.6
49 101.7 74.8 138.8



#18
trans-1,2-Dichloroethene
Concen: 0.156 ug/L
RT: 3.359 min Scan# 628
Delta R.T. 0.007 min
Lab File: VU053956.D
Acq: 27 Apr 2023 23:42

Tgt Ion: 96 Resp: 1349
Ion Ratio Lower Upper
96 100
61 116.9 86.2 160.0
98 49.2 42.8 79.4





#19

1,1-Dichloroethane

Concen: 2.003 ug/L

RT: 3.864 min Scan# 7

Delta R.T. 0.000 min

Lab File: VU053956.D

Acq: 27 Apr 2023 23:42

Instrument :

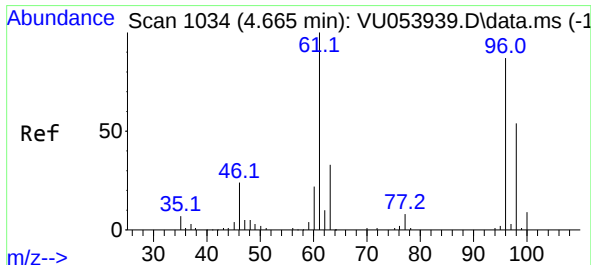
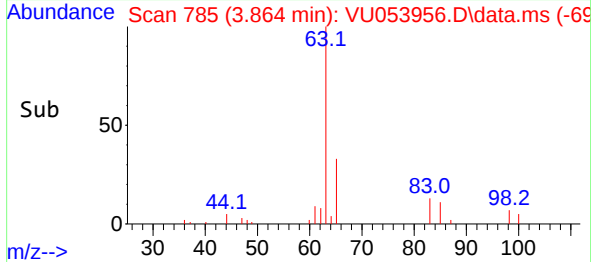
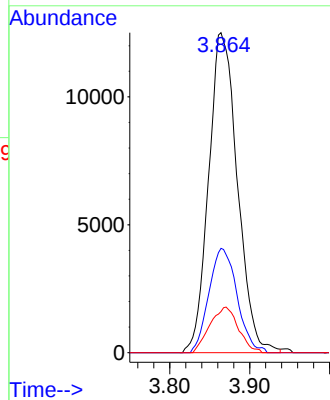
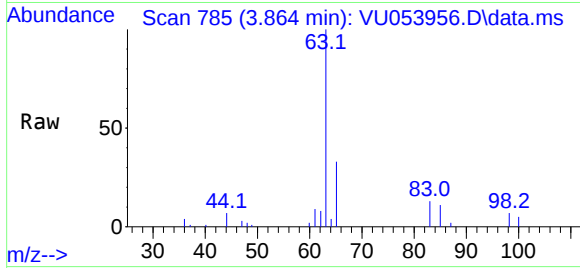
MSVOA_U

ClientSampleId :

HOA35

Tgt Ion: 63 Resp: 31300

Ion	Ratio	Lower	Upper
63	100		
65	32.6	22.0	40.8
83	12.9	10.3	19.1



#22

cis-1,2-Dichloroethene

Concen: 5.674 ug/L

RT: 4.662 min Scan# 1033

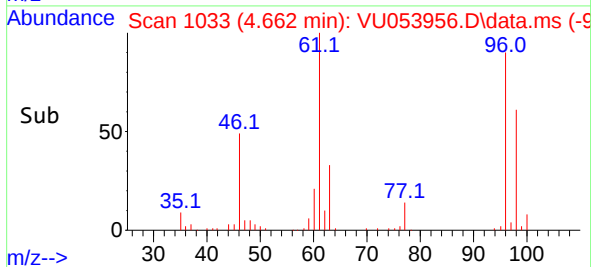
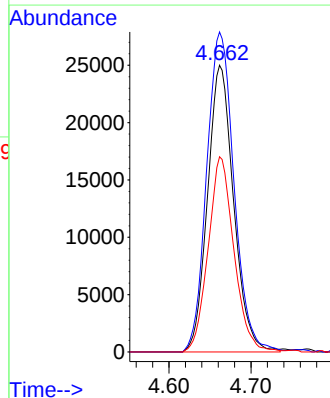
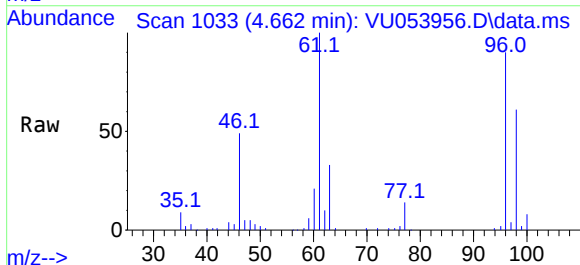
Delta R.T. 0.000 min

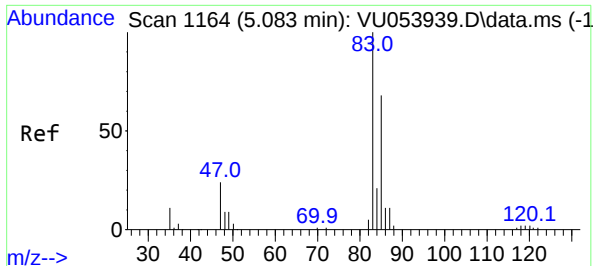
Lab File: VU053956.D

Acq: 27 Apr 2023 23:42

Tgt Ion: 96 Resp: 55256

Ion	Ratio	Lower	Upper
96	100		
61	111.6	84.3	156.5
98	68.1	46.4	86.2

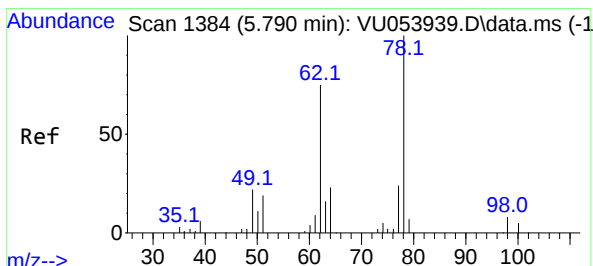
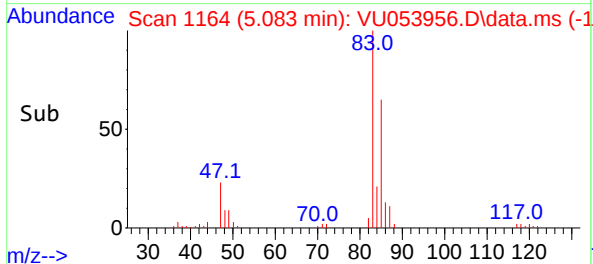
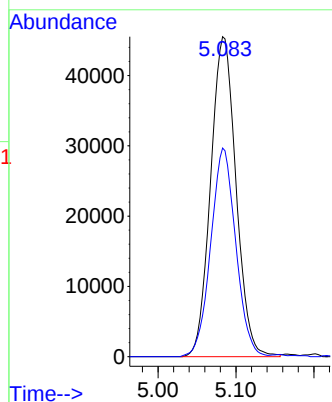
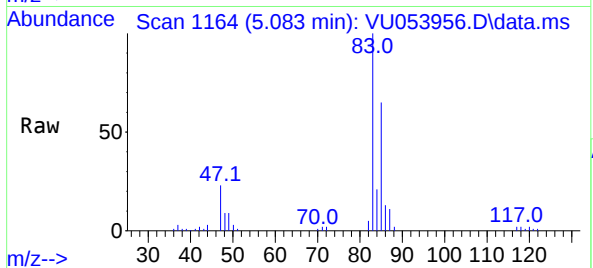




#25
Chloroform
Concen: 6.074 ug/L
RT: 5.083 min Scan# 1164
Delta R.T. -0.003 min
Lab File: VU053956.D
Acq: 27 Apr 2023 23:42

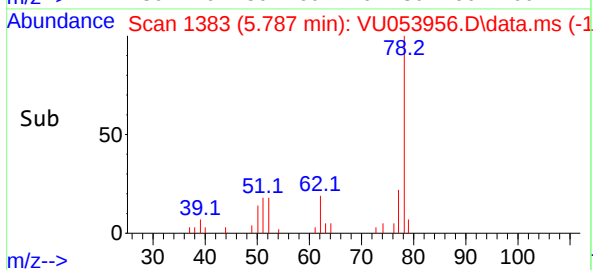
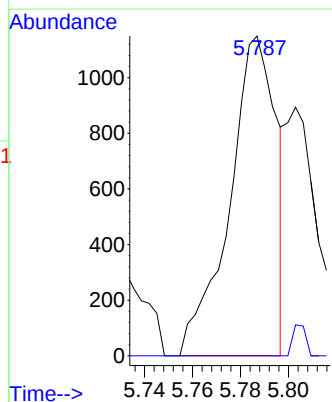
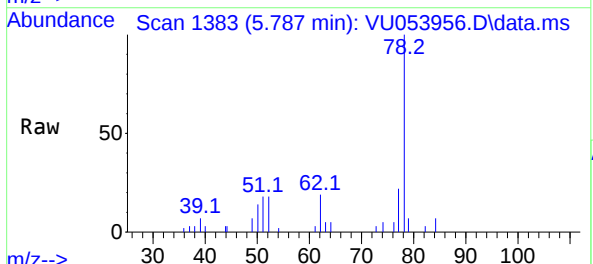
Instrument :
MSVOA_U
ClientSampleId :
HOA35

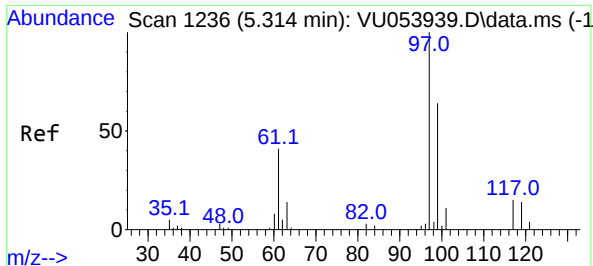
Tgt Ion: 83 Resp: 103059
Ion Ratio Lower Upper
83 100
85 65.2 45.6 84.8



#27
1,2-Dichloroethane
Concen: 0.160 ug/L
RT: 5.787 min Scan# 1383
Delta R.T. -0.003 min
Lab File: VU053956.D
Acq: 27 Apr 2023 23:42

Tgt Ion: 62 Resp: 1556
Ion Ratio Lower Upper
62 100
98 0.0 8.7 13.1#





#29

1,1,1-Trichloroethane

Concen: 15.110 ug/L

RT: 5.311 min Scan# 11

Delta R.T. -0.003 min

Lab File: VU053956.D

Acq: 27 Apr 2023 23:42

Instrument :

MSVOA_U

ClientSampleId :

HOA35

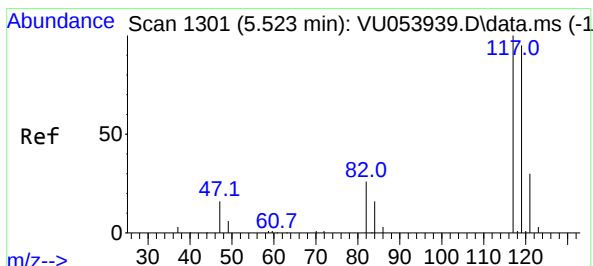
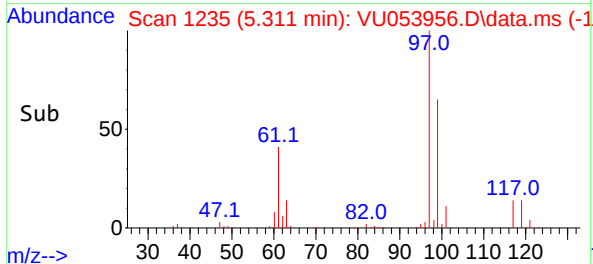
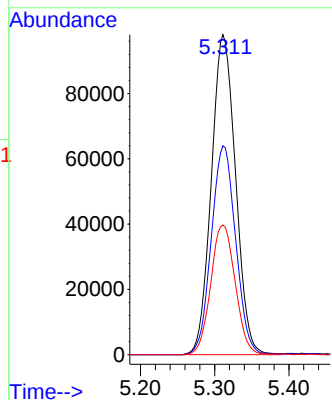
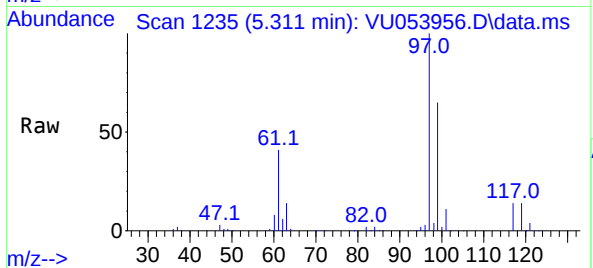
Tgt Ion: 97 Resp: 222444

Ion Ratio Lower Upper

97 100

99 65.7 52.9 79.3

61 40.9 33.8 50.8



#31

Carbon tetrachloride

Concen: 5.434 ug/L

RT: 5.520 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VU053956.D

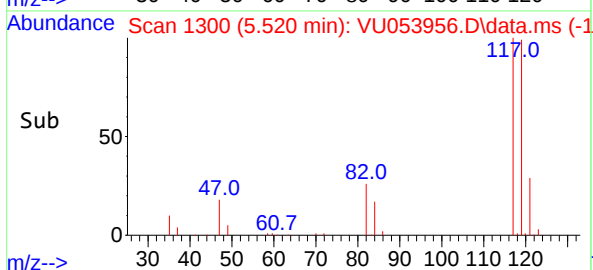
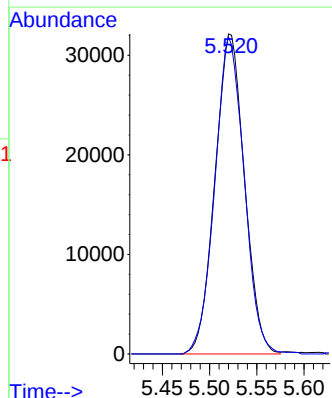
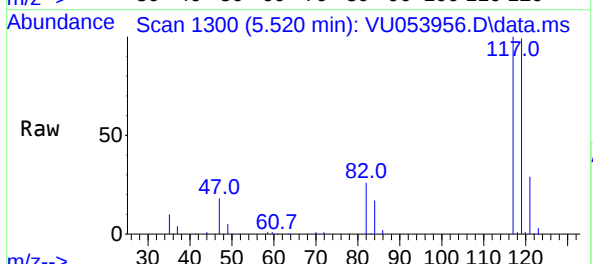
Acq: 27 Apr 2023 23:42

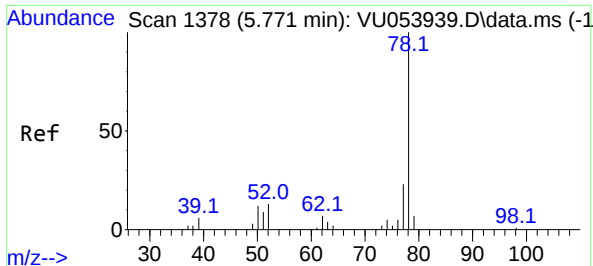
Tgt Ion:117 Resp: 69542

Ion Ratio Lower Upper

117 100

119 98.6 75.0 112.6





Benzene

Concen: 0.646 ug/L

RT: 5.771 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU053956.D

Acq: 27 Apr 2023 23:42

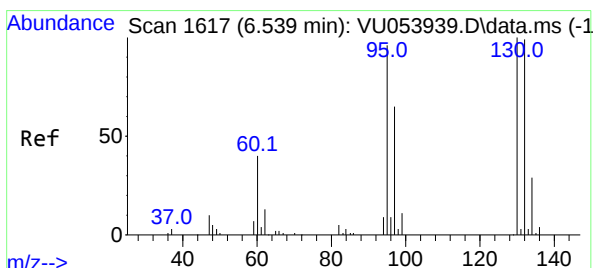
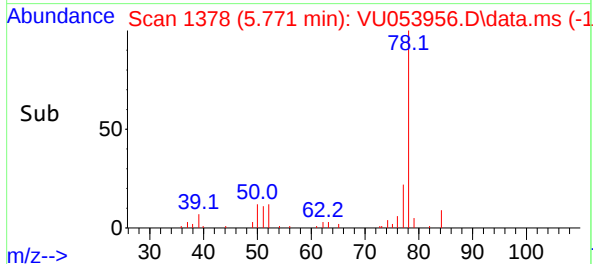
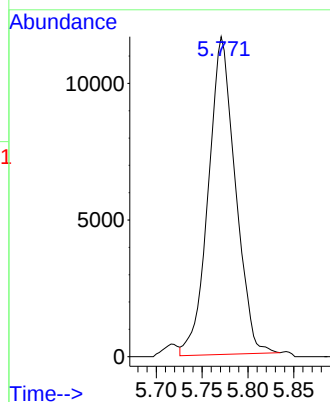
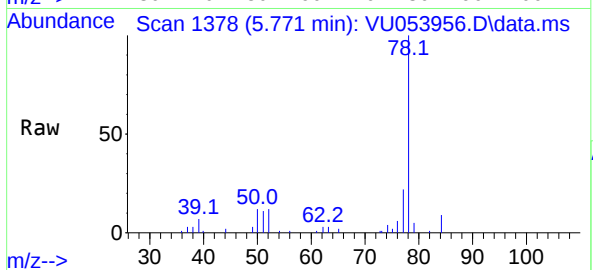
Instrument :

MSVOA_U

ClientSampleId :

HOA35

Tgt Ion: 78 Resp: 23851



Trichloroethene

Concen: 564.914 ug/L

RT: 6.539 min Scan# 1617

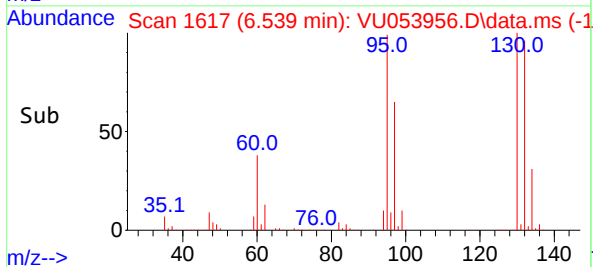
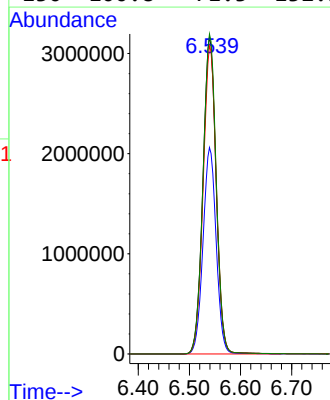
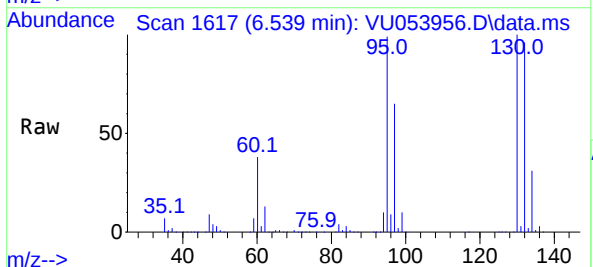
Delta R.T. 0.000 min

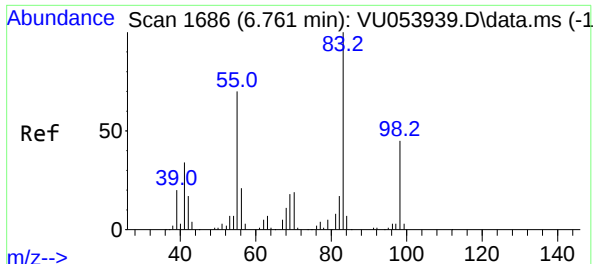
Lab File: VU053956.D

Acq: 27 Apr 2023 23:42

Tgt Ion: 95 Resp: 5682514

Ion	Ratio	Lower	Upper
95	100		
97	65.0	45.1	83.9
132	97.0	69.9	129.9
130	100.8	71.3	132.3

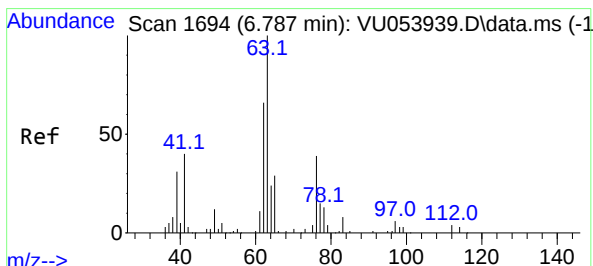
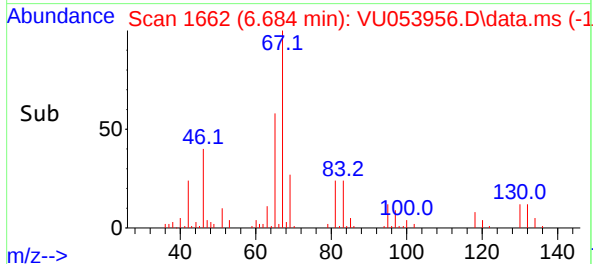
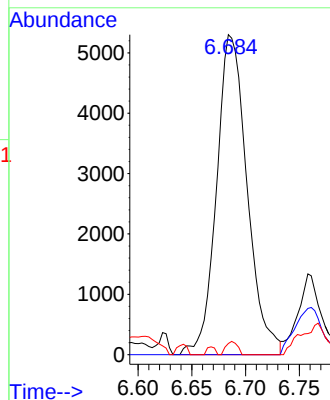
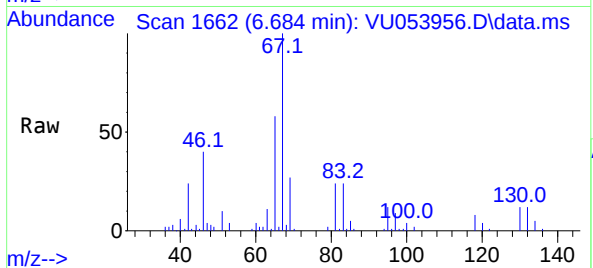




#35
Methylcyclohexane
Concen: 0.676 ug/L
RT: 6.684 min Scan# 1662
Delta R.T. -0.074 min
Lab File: VU053956.D
Acq: 27 Apr 2023 23:42

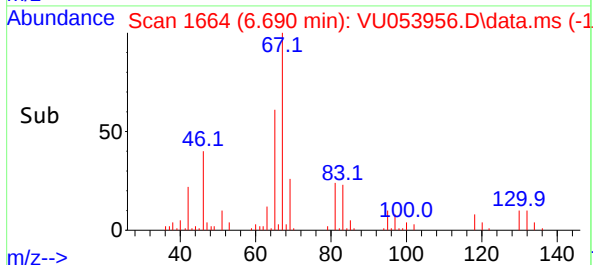
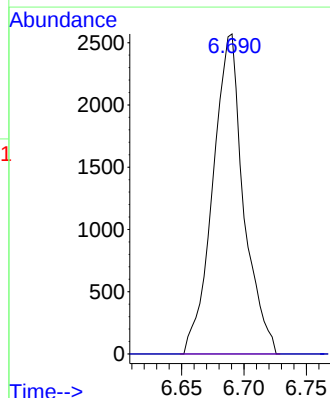
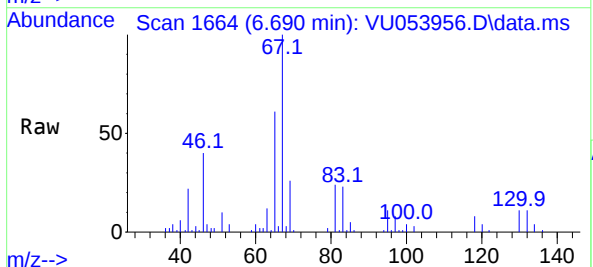
Instrument :
MSVOA_U
ClientSampleId :
HOA35

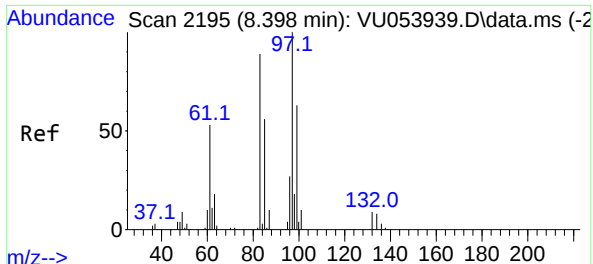
Tgt Ion: 83 Resp: 10498
Ion Ratio Lower Upper
83 100
55 13.0 55.4 83.2#
98 0.0 37.3 55.9#



#37
1,2-Dichloropropane
Concen: 0.483 ug/L
RT: 6.690 min Scan# 1664
Delta R.T. -0.096 min
Lab File: VU053956.D
Acq: 27 Apr 2023 23:42

Tgt Ion: 63 Resp: 4426
Ion Ratio Lower Upper
63 100
112 0.0 3.5 5.3#





#45

1,1,2-Trichloroethane

Concen: 38.885 ug/L

RT: 8.571 min Scan# 2195

Delta R.T. 0.177 min

Lab File: VU053956.D

Acq: 27 Apr 2023 23:42

Instrument :

MSVOA_U

ClientSampleId :

HOA35

Tgt Ion: 97 Resp: 266921

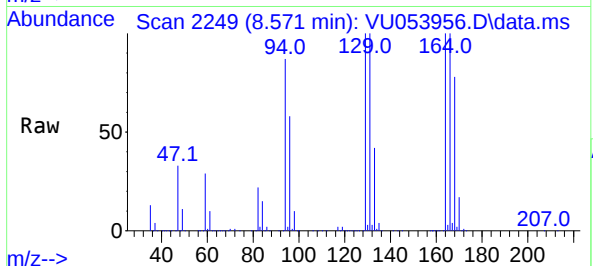
Ion Ratio Lower Upper

97 100

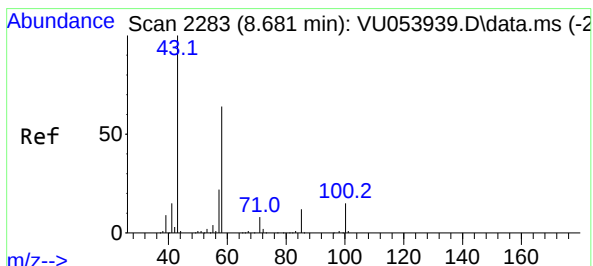
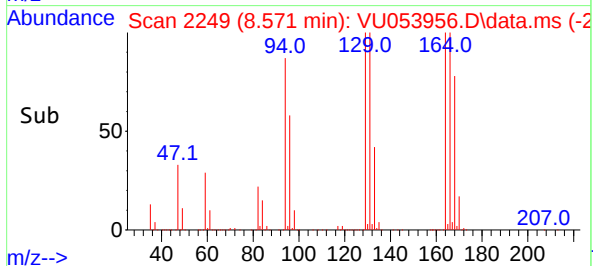
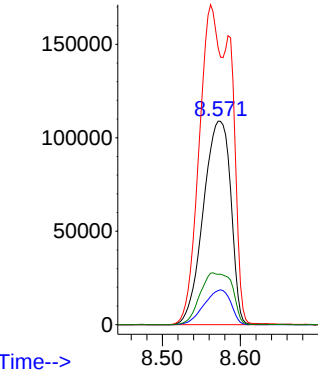
99 16.7 44.7 83.1#

83 136.1 59.8 111.1#

85 24.7 39.5 73.3#



Abundance



#48

2-Hexanone

Concen: 0.672 ug/L

RT: 8.684 min Scan# 2284

Delta R.T. 0.003 min

Lab File: VU053956.D

Acq: 27 Apr 2023 23:42

Tgt Ion: 43 Resp: 2109

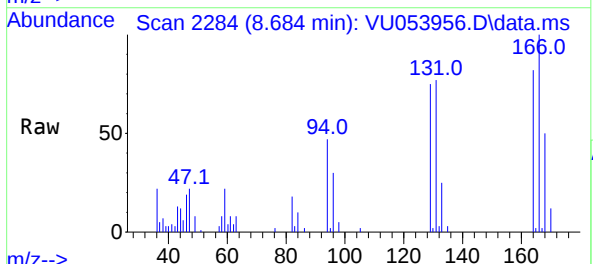
Ion Ratio Lower Upper

43 100

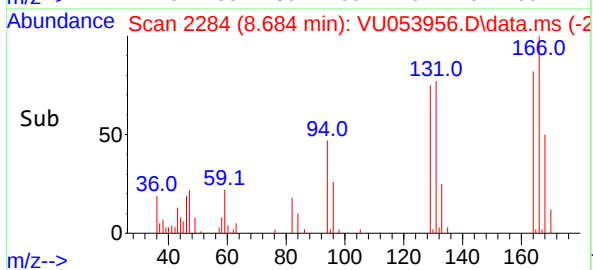
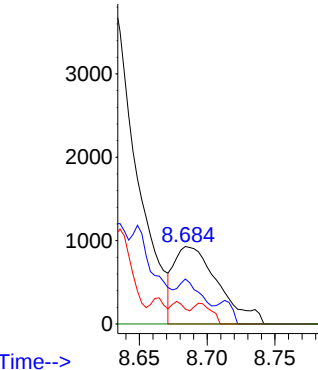
58 16.2 49.8 74.6#

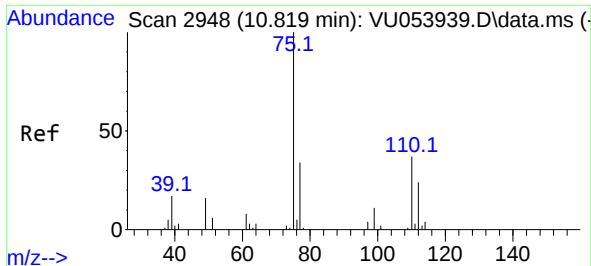
57 9.9 16.9 25.3#

100 0.0 11.8 17.8#



Abundance

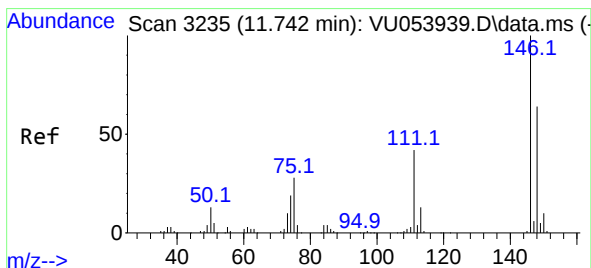
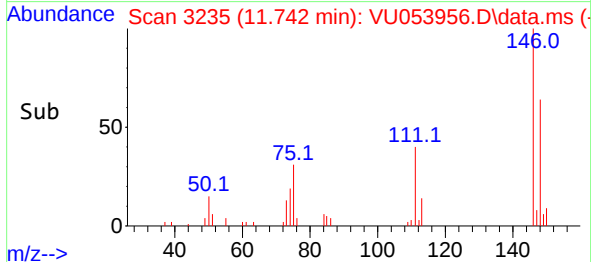
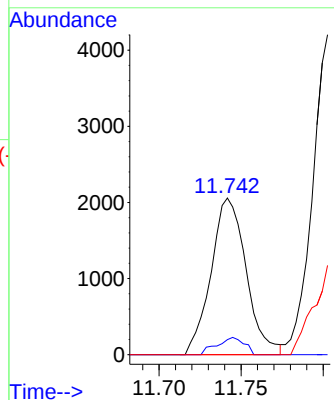
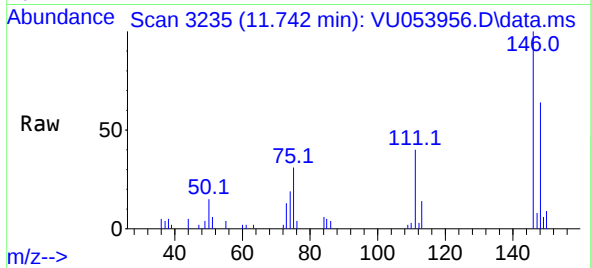




#61
1,2,3-Trichloropropane
Concen: 0.632 ug/L
RT: 11.742 min Scan# 3111
Delta R.T. 0.923 min
Lab File: VU053956.D
Acq: 27 Apr 2023 23:42

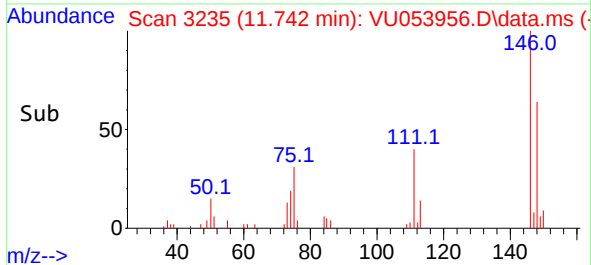
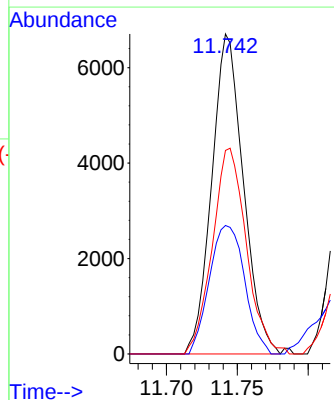
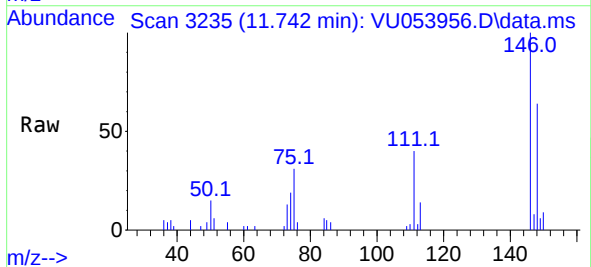
Instrument :
MSVOA_U
ClientSampleId :
HOA35

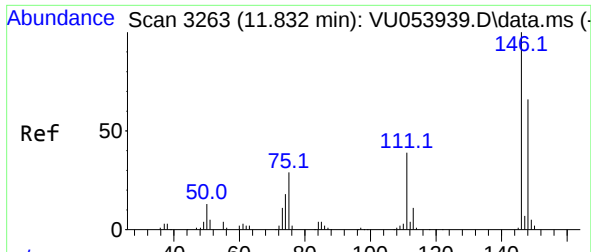
Tgt Ion: 75 Resp: 3064
Ion Ratio Lower Upper
75 100
110 8.6 30.7 46.1#
77 0.0 26.2 39.4#



#64
1,3-Dichlorobenzene
Concen: 0.550 ug/L
RT: 11.742 min Scan# 3235
Delta R.T. 0.000 min
Lab File: VU053956.D
Acq: 27 Apr 2023 23:42

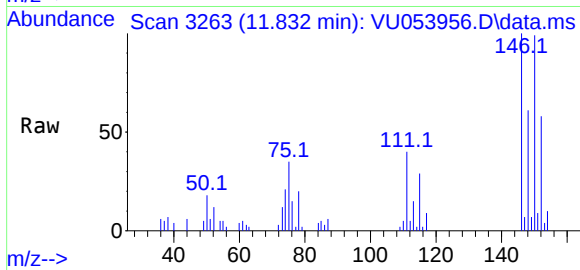
Tgt Ion:146 Resp: 10387
Ion Ratio Lower Upper
146 100
111 40.1 27.9 51.9
148 63.6 43.7 81.1



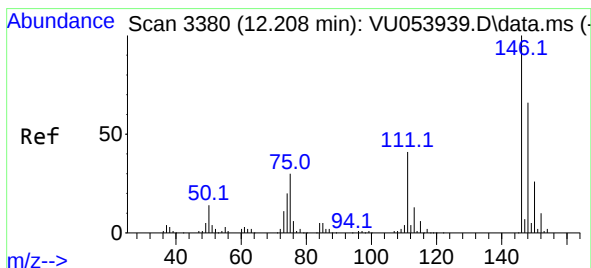
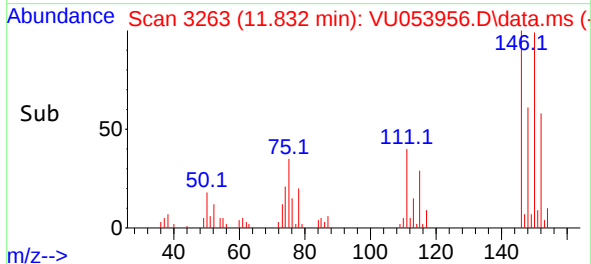
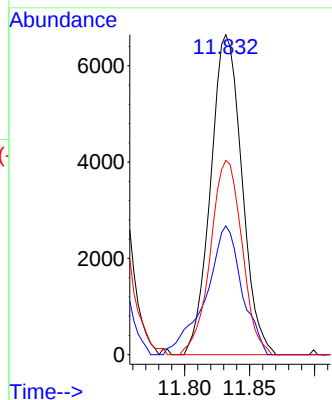


#65
1,4-Dichlorobenzene
Concen: 0.582 ug/L
RT: 11.832 min Scan# 311
Delta R.T. 0.000 min
Lab File: VU053956.D
Acq: 27 Apr 2023 23:42

Instrument :
MSVOA_U
ClientSampleId :
HOA35



Tgt Ion:146 Resp: 11119
Ion Ratio Lower Upper
146 100
111 40.2 28.3 52.7
148 60.7 45.4 84.2



#67
1,2-Dichlorobenzene
Concen: 0.587 ug/L
RT: 12.208 min Scan# 3380
Delta R.T. 0.000 min
Lab File: VU053956.D
Acq: 27 Apr 2023 23:42

Tgt Ion:146 Resp: 10241
Ion Ratio Lower Upper
146 100
111 37.8 32.6 49.0
148 69.2 51.0 76.4

