

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111523\
 Data File : VU056359.D
 Acq On : 15 Nov 2023 16:50
 Operator : MD/SY
 Sample : 05340-18DL 5X
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 16 04:40:18 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR111323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Nov 16 04:37:29 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.243	114	294949	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	294221	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	136709	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	115520	5.236	ug/L	0.00
Spiked Amount	5.000	Range 40 - 130	Recovery	= 104.800%		
7) Chloroethane-d5	1.903	69	75847	4.484	ug/L	0.00
Spiked Amount	5.000	Range 65 - 130	Recovery	= 89.600%		
11) 1,1-Dichloroethene-d2	2.558	65	51070	5.245	ug/L	0.00
Spiked Amount	5.000	Range 60 - 125	Recovery	= 105.000%		
20) 2-Butanone-d5	4.619	46	238892	54.306	ug/L	0.00
Spiked Amount	50.000	Range 40 - 130	Recovery	= 108.620%		
24) Chloroform-d	5.054	84	214633	5.030	ug/L	0.00
Spiked Amount	5.000	Range 70 - 125	Recovery	= 100.600%		
26) 1,2-Dichloroethane-d4	5.697	65	109507	5.554	ug/L	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	= 111.000%		
32) Benzene-d6	5.719	84	435259	4.965	ug/L	0.00
Spiked Amount	5.000	Range 70 - 125	Recovery	= 99.400%		
36) 1,2-Dichloropropane-d6	6.684	67	136809	5.178	ug/L	0.00
Spiked Amount	5.000	Range 60 - 140	Recovery	= 103.600%		
41) Toluene-d8	7.893	98	380200	4.912	ug/L	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	= 98.200%		
43) trans-1,3-Dichloroprop...	8.176	79	50263	4.961	ug/L	0.00
Spiked Amount	5.000	Range 55 - 130	Recovery	= 99.200%		
46) 2-Hexanone-d5	8.639	63	208540	52.372	ug/L	0.00
Spiked Amount	50.000	Range 45 - 130	Recovery	= 104.740%		
56) 1,1,2,2-Tetrachloroeth...	10.754	84	101217	5.362	ug/L	0.00
Spiked Amount	5.000	Range 65 - 120	Recovery	= 107.200%		
66) 1,2-Dichlorobenzene-d4	12.188	152	140483	5.563	ug/L	0.00
Spiked Amount	5.000	Range 80 - 120	Recovery	= 111.200%		
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	2.568	96	3914	0.217	ug/L #	1
16) Methylene chloride	3.038	84	12813	0.536	ug/L	96
17) Methyl tert-butyl Ether	3.356	73	8526	0.194	ug/L	98
19) 1,1-Dichloroethane	3.857	63	3460	0.094	ug/L	88
22) cis-1,2-Dichloroethene	4.665	96	4766	0.226	ug/L	85
27) 1,2-Dichloroethane	5.796	62	4429	0.196	ug/L #	94
29) 1,1,1-Trichloroethane	5.314	97	5242	0.155	ug/L	99
33) Benzene	5.764	78	10452	0.125	ug/L	100
34) Trichloroethene	6.536	95	220943	9.659	ug/L	98
37) 1,2-Dichloropropane	6.787	63	3430	0.157	ug/L	98
38) Bromodichloromethane	7.105	83	4458	0.158	ug/L	93
39) cis-1,3-Dichloropropene	7.606	75	4832	0.150	ug/L	86
44) trans-1,3-Dichloropropene	8.211	75	4205	0.164	ug/L	100
47) Tetrachloroethene	8.549	164	39207	2.542	ug/L	98
48) 2-Hexanone	8.696	43	10158	1.201	ug/L #	82
49) Dibromochloromethane	8.806	129	2341	0.141	ug/L	99
50) 1,2-Dibromoethane	8.922	107	2269	0.165	ug/L #	93
51) Chlorobenzene	9.449	112	9770	0.175	ug/L #	81
52) Ethylbenzene	9.568	91	15532	0.161	ug/L	94

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

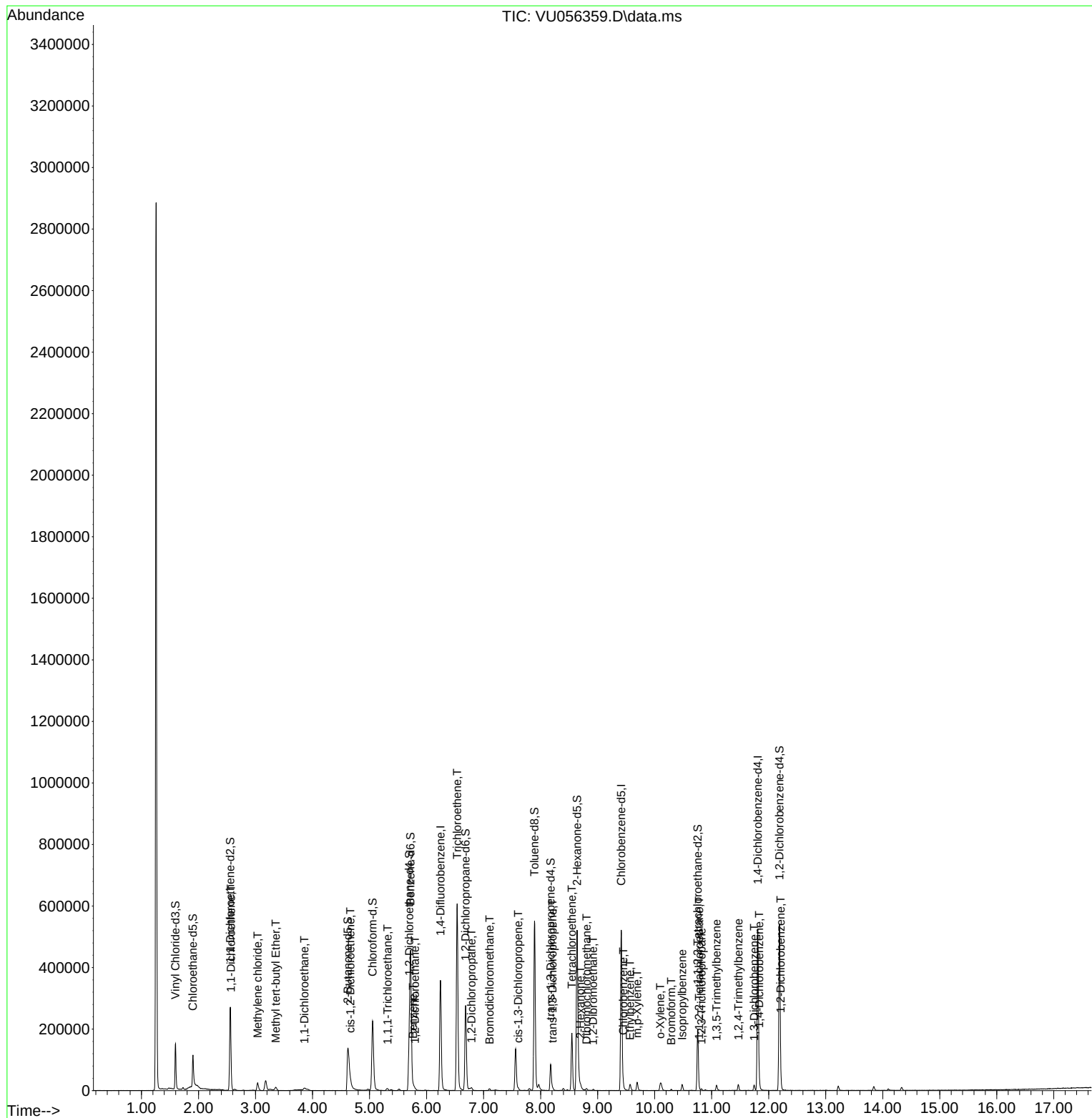
53) m,p-Xylene	9.693	106	8422	0.237	ug/L	86
54) o-Xylene	10.098	106	6100	0.177	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.780	83	2993	0.168	ug/L #	94
59) Bromoform	10.291	173	1644	0.193	ug/L #	95
60) Isopropylbenzene	10.484	105	13098	0.149	ug/L	96
61) 1,2,3-Trichloropropane	10.822	75	2332	0.199	ug/L #	86
62) 1,3,5-Trimethylbenzene	11.085	105	10284	0.142	ug/L	98
63) 1,2,4-Trimethylbenzene	11.468	105	10850	0.152	ug/L	95
64) 1,3-Dichlorobenzene	11.745	146	7300	0.182	ug/L	95
65) 1,4-Dichlorobenzene	11.835	146	6989	0.174	ug/L	97
67) 1,2-Dichlorobenzene	12.211	146	6931	0.188	ug/L	89

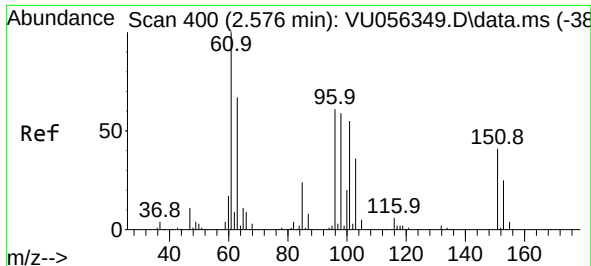
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#12

1,1-Dichloroethene

Concen: 0.217 ug/L

RT: 2.568 min Scan# 71

Delta R.T. -0.008 min

Lab File: VU056359.D

Acq: 15 Nov 2023 16:50

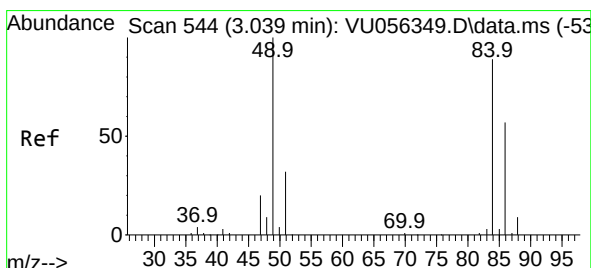
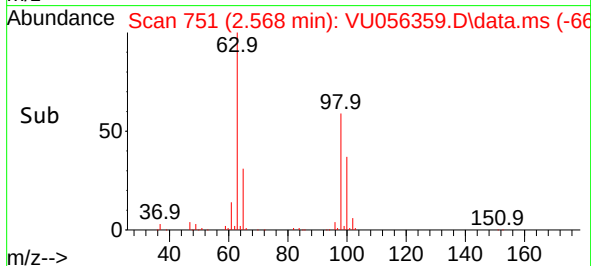
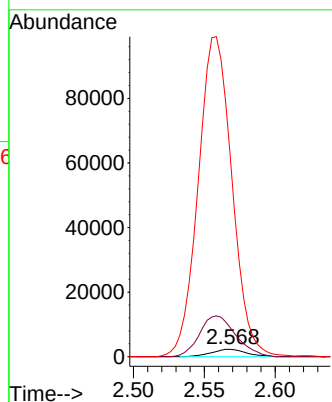
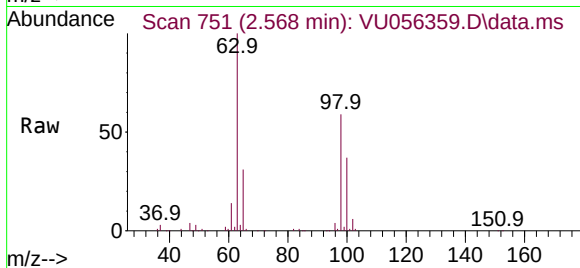
Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 96 Resp: 3914

Ion	Ratio	Lower	Upper
96	100		
61	393.6	123.1	228.7#
63	2732.4	93.3	173.3#



#16

Methylene chloride

Concen: 0.536 ug/L

RT: 3.038 min Scan# 897

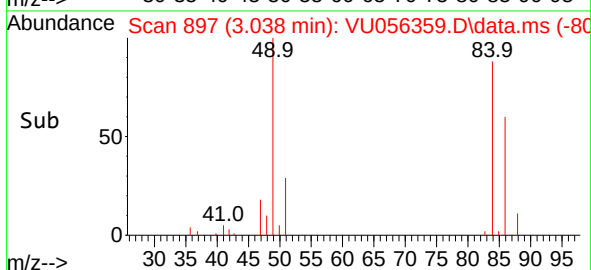
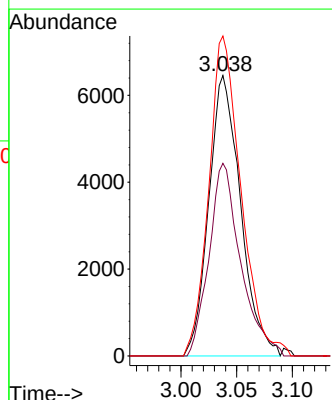
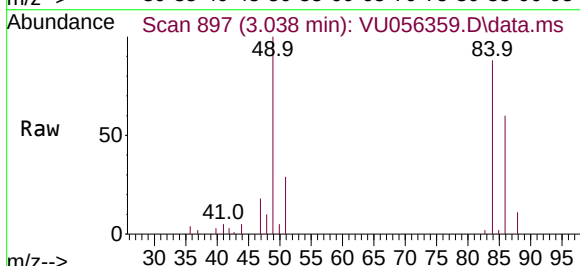
Delta R.T. -0.002 min

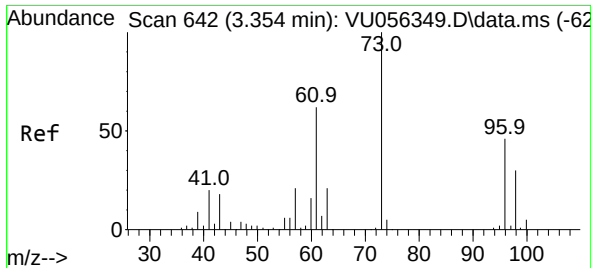
Lab File: VU056359.D

Acq: 15 Nov 2023 16:50

Tgt Ion: 84 Resp: 12813

Ion	Ratio	Lower	Upper
84	100		
86	68.7	44.7	83.1
49	114.1	81.8	152.0

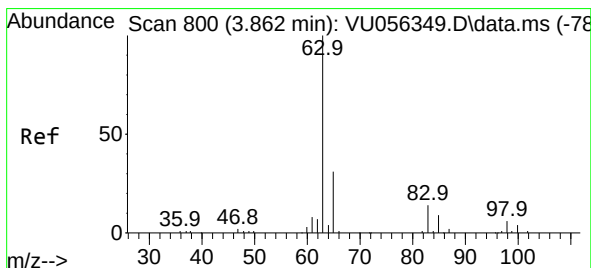
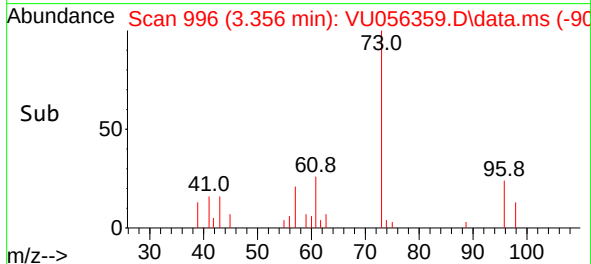
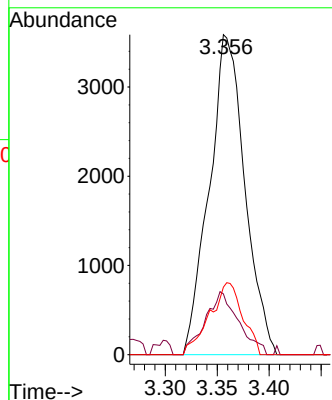
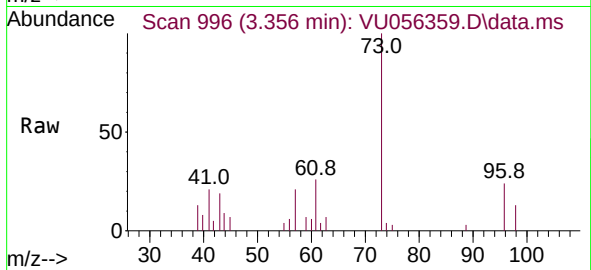




#17
Methyl tert-butyl Ether
Concen: 0.194 ug/L
RT: 3.356 min Scan# 911
Delta R.T. 0.002 min
Lab File: VU056359.D
Acq: 15 Nov 2023 16:50

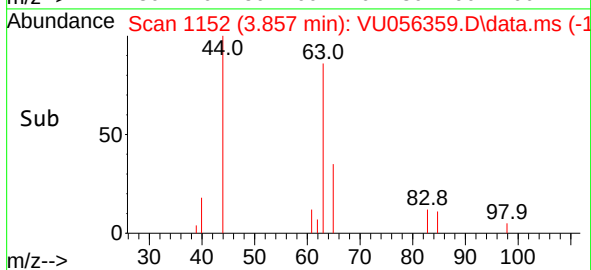
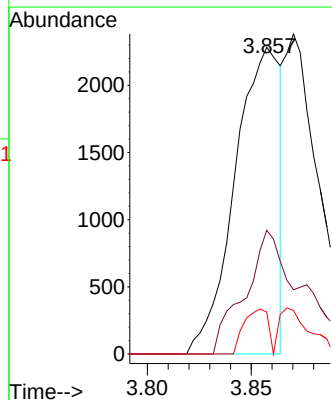
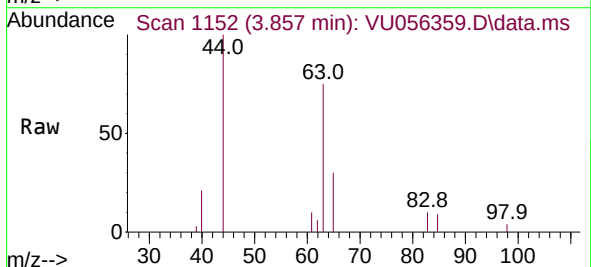
Instrument :
MSVOA_U
ClientSampleId :

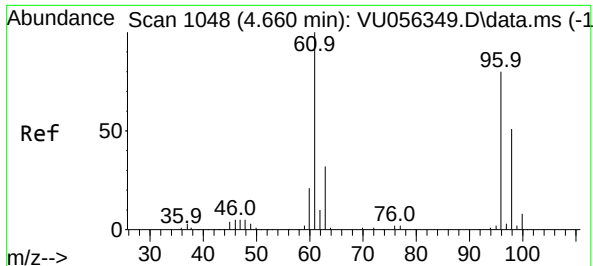
Tgt Ion: 73	Resp:	8526
Ion	Ratio	Lower Upper
73	100	
43	18.5	15.1 22.7
57	20.9	17.8 26.8



#19
1,1-Dichloroethane
Concen: 0.094 ug/L
RT: 3.857 min Scan# 1152
Delta R.T. -0.005 min
Lab File: VU056359.D
Acq: 15 Nov 2023 16:50

Tgt Ion: 63	Resp:	3460
Ion	Ratio	Lower Upper
63	100	
65	40.3	21.8 40.6
83	13.7	9.7 17.9

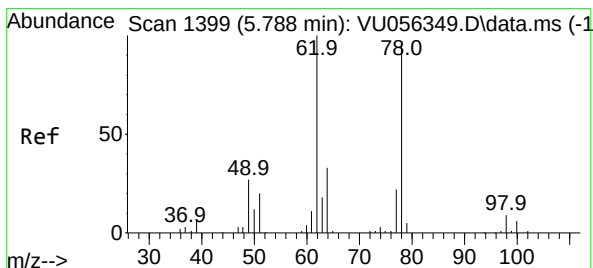
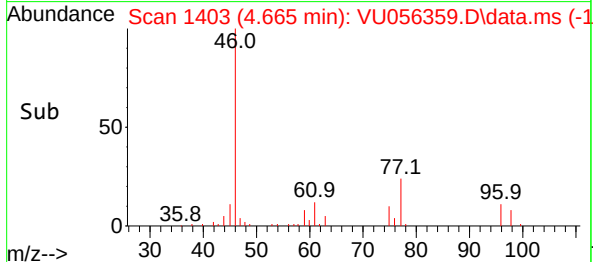
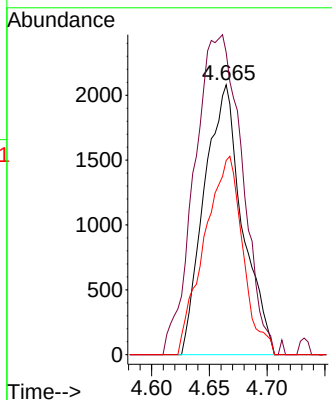
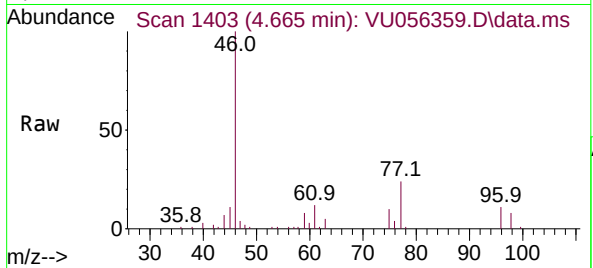




#22
 cis-1,2-Dichloroethene
 Concen: 0.226 ug/L
 RT: 4.665 min Scan# 1403
 Delta R.T. 0.005 min
 Lab File: VU056359.D
 Acq: 15 Nov 2023 16:50

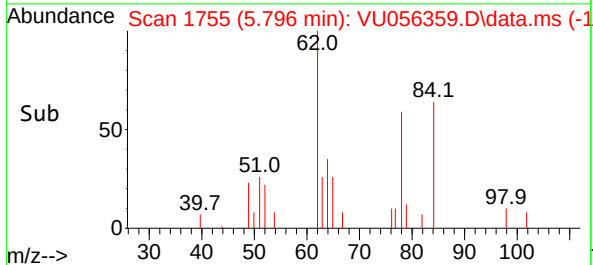
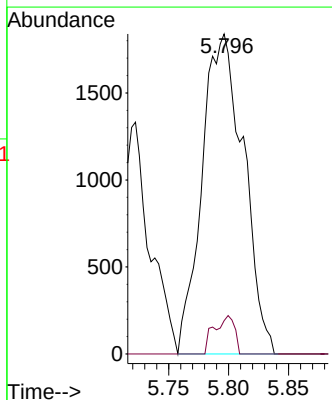
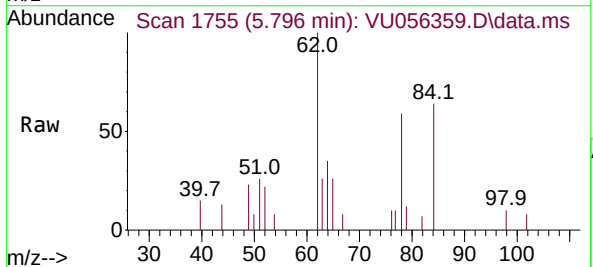
Instrument :
 MSVOA_U
 ClientSampleId :

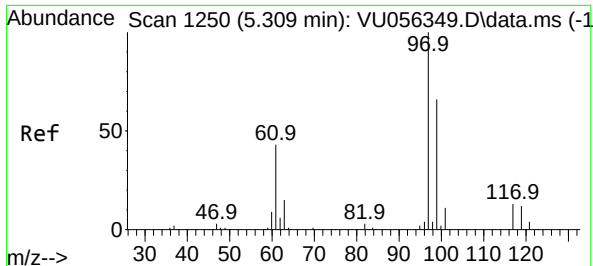
Tgt Ion: 96 Resp: 4766
 Ion Ratio Lower Upper
 96 100
 61 111.9 93.2 173.2
 98 71.9 44.8 83.2



#27
 1,2-Dichloroethane
 Concen: 0.196 ug/L
 RT: 5.796 min Scan# 1755
 Delta R.T. 0.008 min
 Lab File: VU056359.D
 Acq: 15 Nov 2023 16:50

Tgt Ion: 62 Resp: 4429
 Ion Ratio Lower Upper
 62 100
 98 10.4 6.6 10.0#

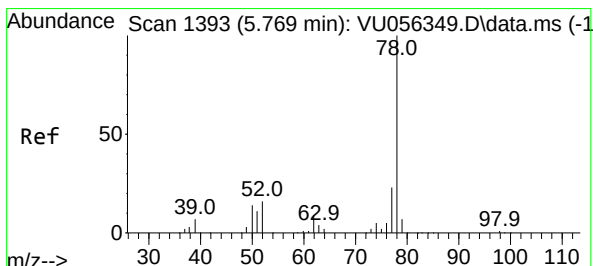
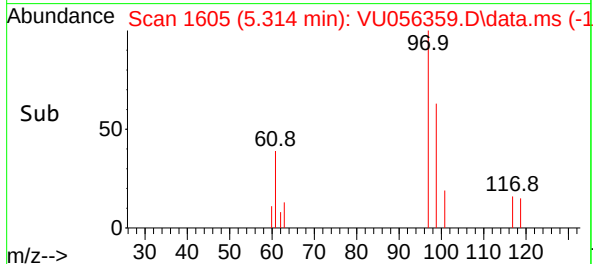
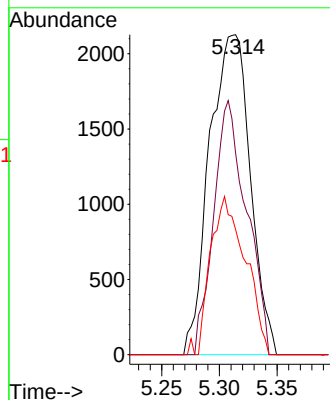
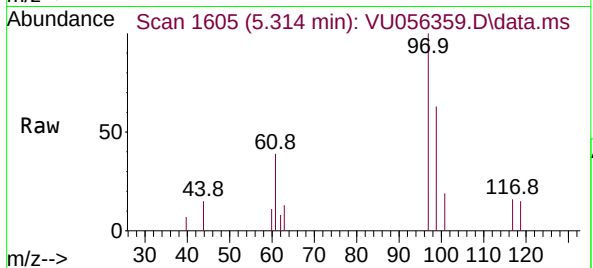




#29
1,1,1-Trichloroethane
Concen: 0.155 ug/L
RT: 5.314 min Scan# 1745
Delta R.T. 0.005 min
Lab File: VU056359.D
Acq: 15 Nov 2023 16:50

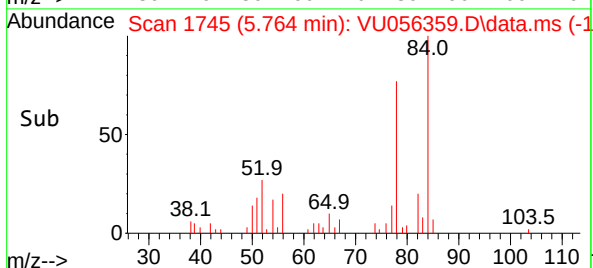
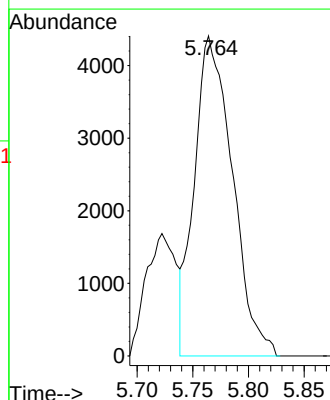
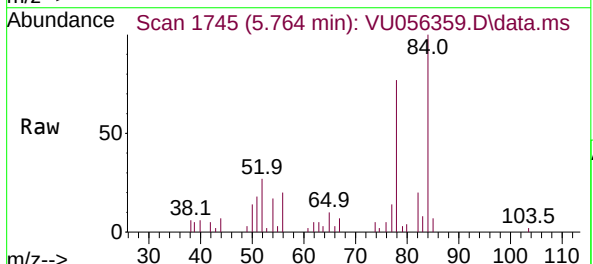
Instrument :
MSVOA_U
ClientSampleId :

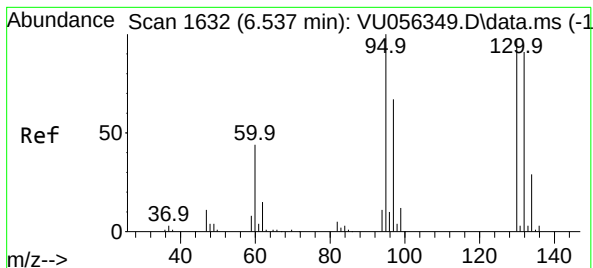
Tgt Ion: 97 Resp: 5242
Ion Ratio Lower Upper
97 100
99 64.0 51.6 77.4
61 41.8 34.3 51.5



#33
Benzene
Concen: 0.125 ug/L
RT: 5.764 min Scan# 1745
Delta R.T. -0.005 min
Lab File: VU056359.D
Acq: 15 Nov 2023 16:50

Tgt Ion: 78 Resp: 10452





#34

Trichloroethene

Concen: 9.659 ug/L

RT: 6.536 min Scan# 1

Delta R.T. -0.002 min

Lab File: VU056359.D

Acq: 15 Nov 2023 16:50

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 95 Resp: 220943

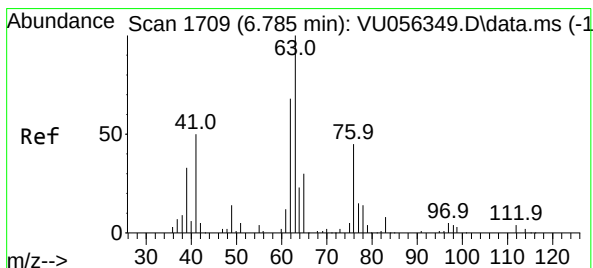
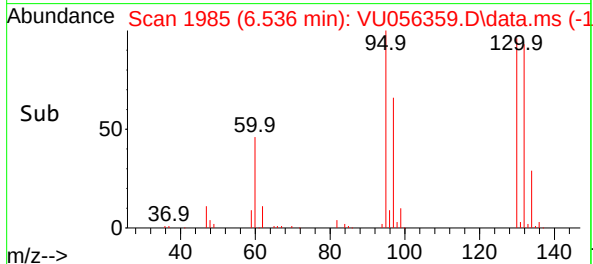
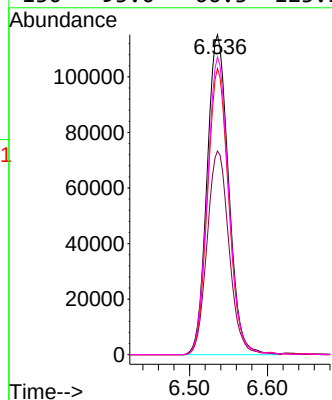
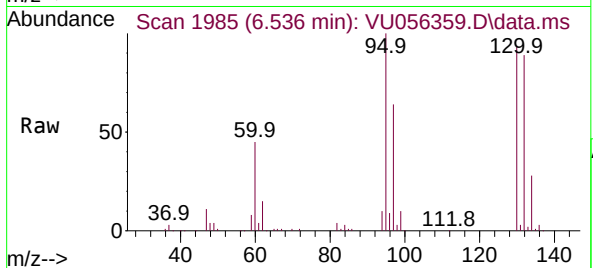
Ion Ratio Lower Upper

95 100

97 63.7 46.5 86.3

132 89.5 62.0 115.2

130 93.0 66.3 123.1



#37

1,2-Dichloropropane

Concen: 0.157 ug/L

RT: 6.787 min Scan# 2063

Delta R.T. 0.002 min

Lab File: VU056359.D

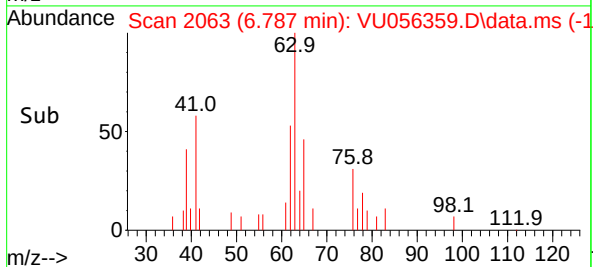
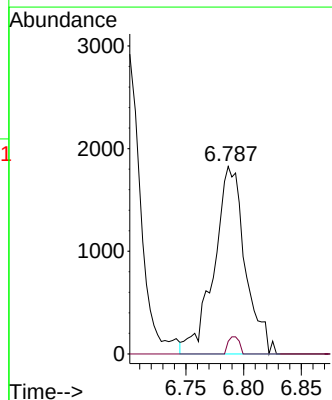
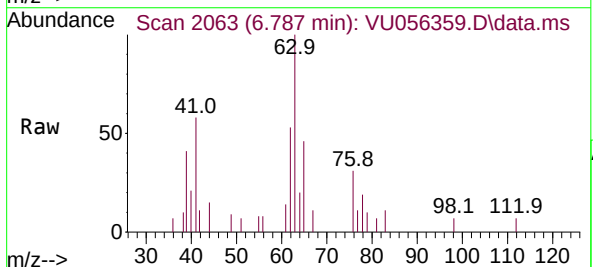
Acq: 15 Nov 2023 16:50

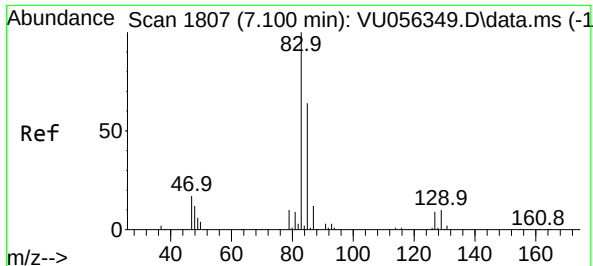
Tgt Ion: 63 Resp: 3430

Ion Ratio Lower Upper

63 100

112 3.3 3.2 4.8





#38

Bromodichloromethane

Concen: 0.158 ug/L

RT: 7.105 min Scan# 2162

Delta R.T. 0.005 min

Lab File: VU056359.D

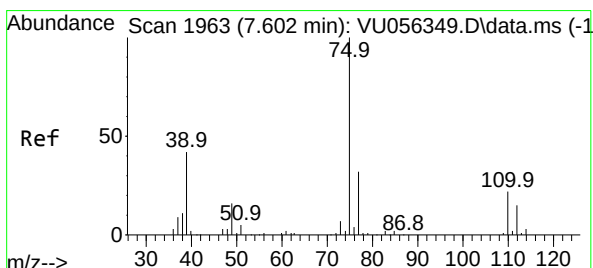
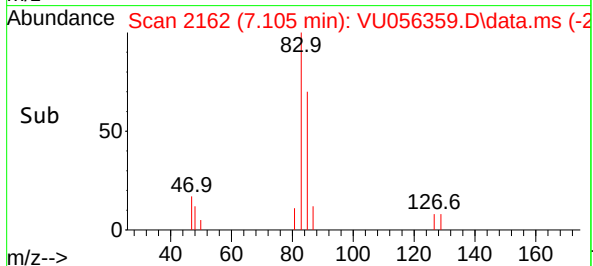
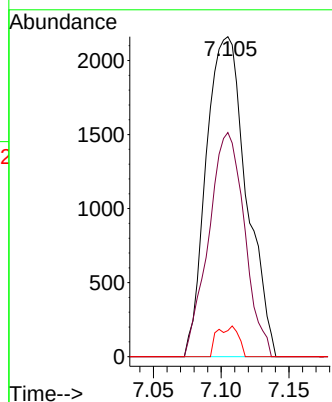
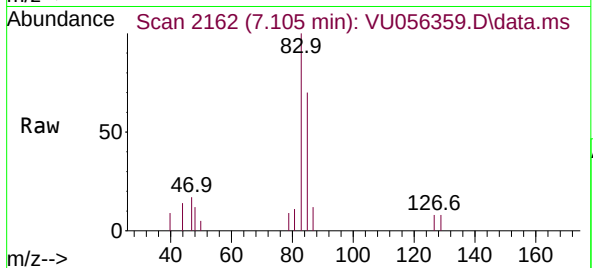
Acq: 15 Nov 2023 16:50

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:	83	Resp:	4458
Ion	Ratio	Lower	Upper
83	100		
85	70.1	44.9	83.5
127	8.1	6.9	10.3



#39

cis-1,3-Dichloropropene

Concen: 0.150 ug/L

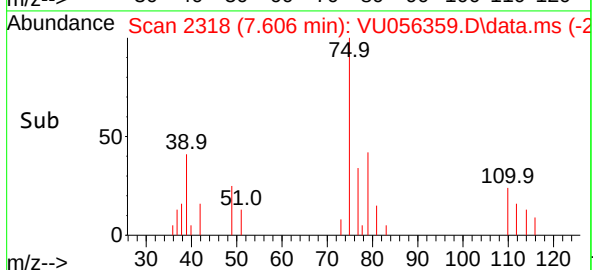
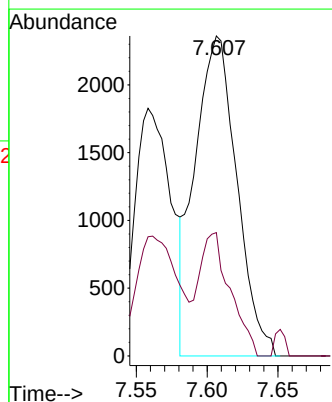
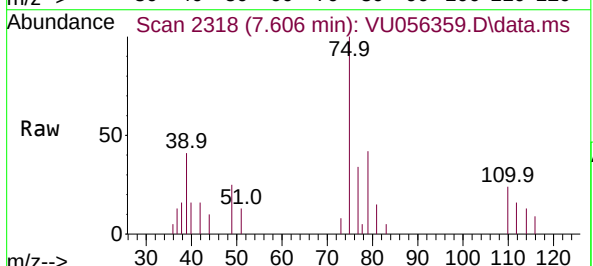
RT: 7.606 min Scan# 2318

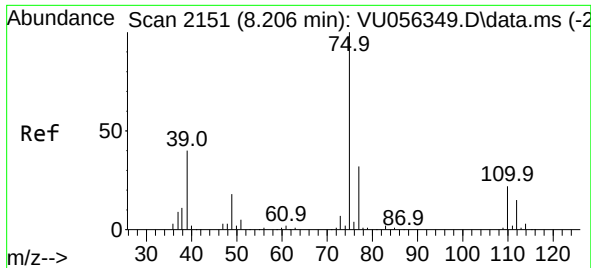
Delta R.T. 0.005 min

Lab File: VU056359.D

Acq: 15 Nov 2023 16:50

Tgt Ion:	75	Resp:	4832
Ion	Ratio	Lower	Upper
75	100		
77	38.5	21.5	39.9

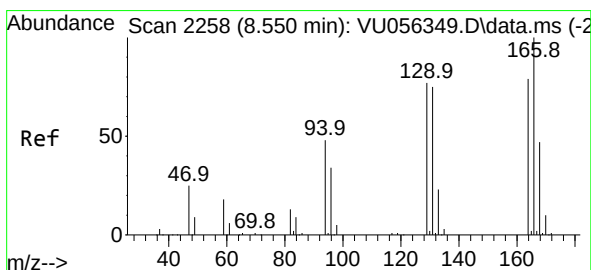
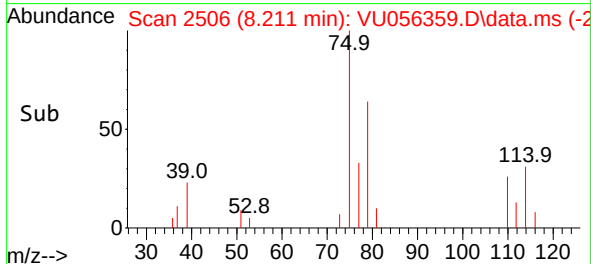
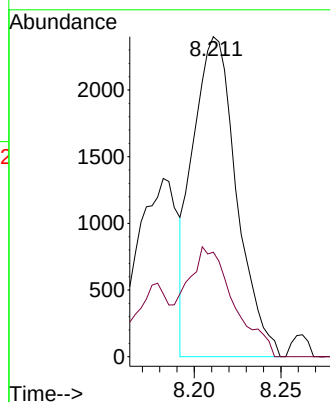
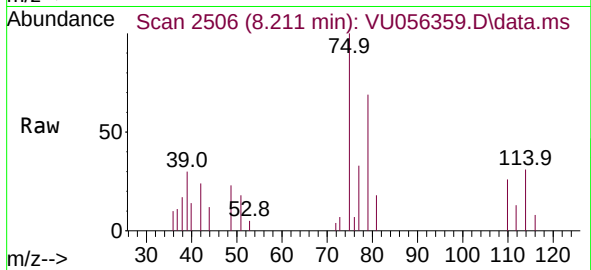




#44
trans-1,3-Dichloropropene
Concen: 0.164 ug/L
RT: 8.211 min Scan# 2151
Delta R.T. 0.005 min
Lab File: VU056359.D
Acq: 15 Nov 2023 16:50

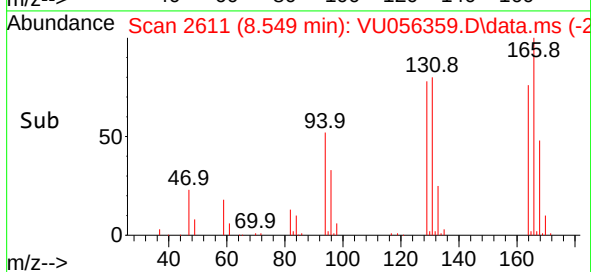
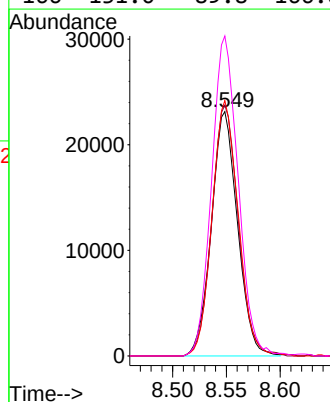
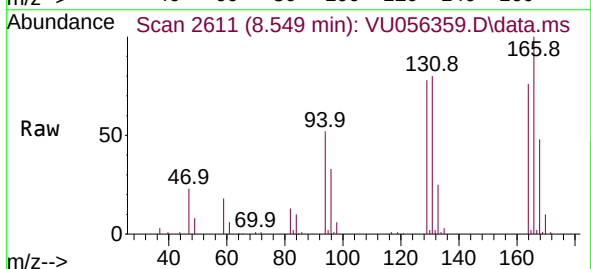
Instrument :
MSVOA_U
ClientSampleId :

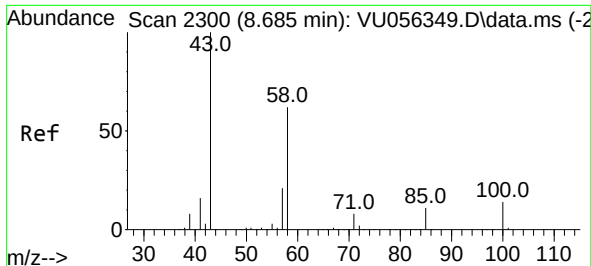
Tgt Ion: 75 Resp: 4205
Ion Ratio Lower Upper
75 100
77 32.7 22.8 42.4



#47
Tetrachloroethene
Concen: 2.542 ug/L
RT: 8.549 min Scan# 2611
Delta R.T. -0.002 min
Lab File: VU056359.D
Acq: 15 Nov 2023 16:50

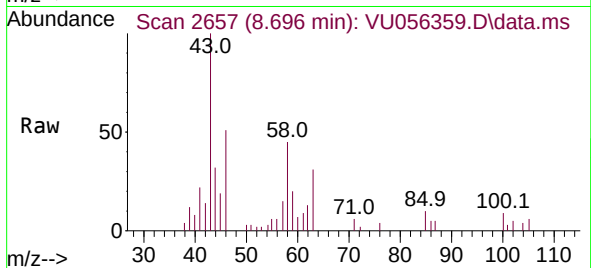
Tgt Ion:164 Resp: 39207
Ion Ratio Lower Upper
164 100
129 102.7 71.0 131.9
131 104.5 70.3 130.7
166 131.0 89.8 166.8



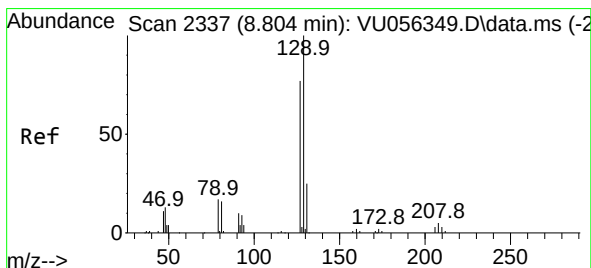
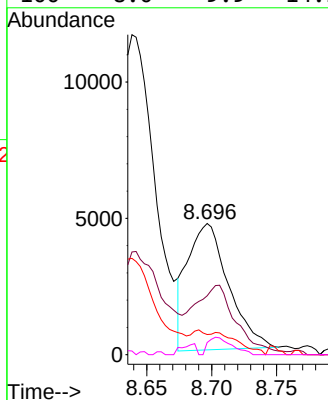
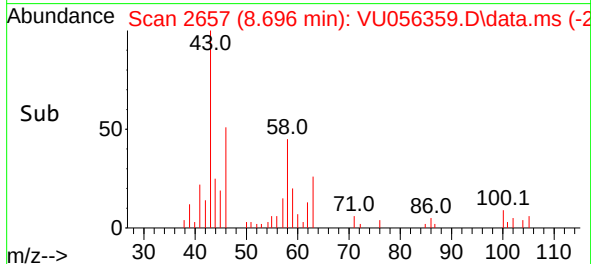


#48
2-Hexanone
Concen: 1.201 ug/L
RT: 8.696 min Scan# 20
Delta R.T. 0.011 min
Lab File: VU056359.D
Acq: 15 Nov 2023 16:50

Instrument :
MSVOA_U
ClientSampleId :

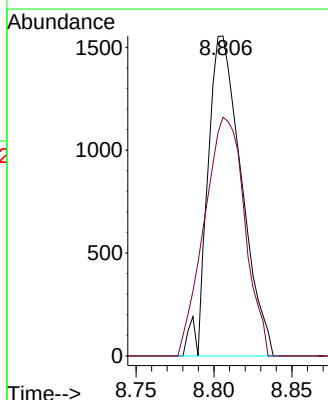
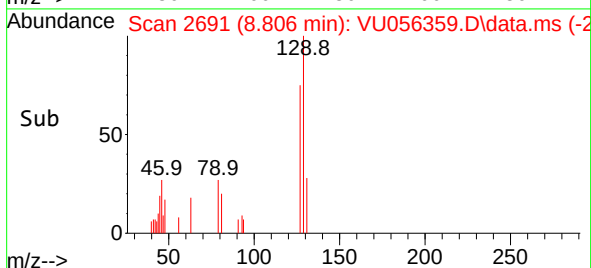
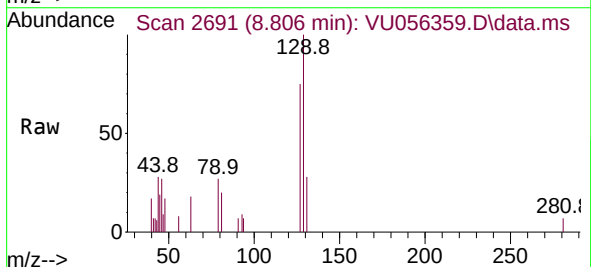


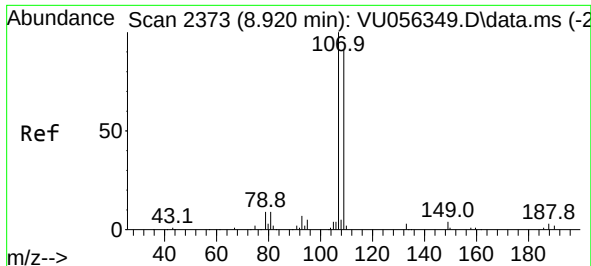
Tgt Ion: 43 Resp: 10158
Ion Ratio Lower Upper
43 100
58 52.7 48.7 73.1
57 0.0 16.8 25.2#
100 8.0 9.9 14.9#



#49
Dibromochloromethane
Concen: 0.141 ug/L
RT: 8.806 min Scan# 2691
Delta R.T. 0.002 min
Lab File: VU056359.D
Acq: 15 Nov 2023 16:50

Tgt Ion: 129 Resp: 2341
Ion Ratio Lower Upper
129 100
127 74.6 52.9 98.3





#50

1,2-Dibromoethane

Concen: 0.165 ug/L

RT: 8.922 min Scan# 21

Delta R.T. 0.002 min

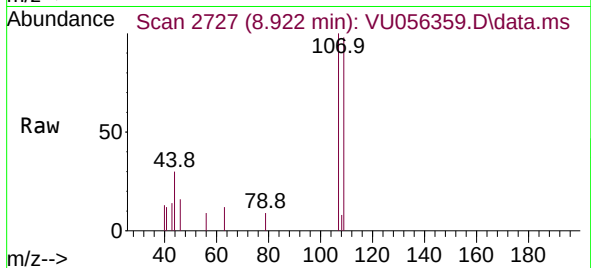
Lab File: VU056359.D

Acq: 15 Nov 2023 16:50

Instrument :

MSVOA_U

ClientSampleId :



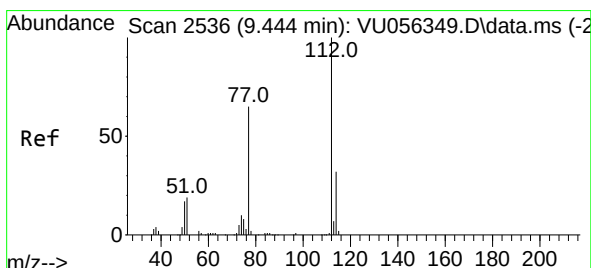
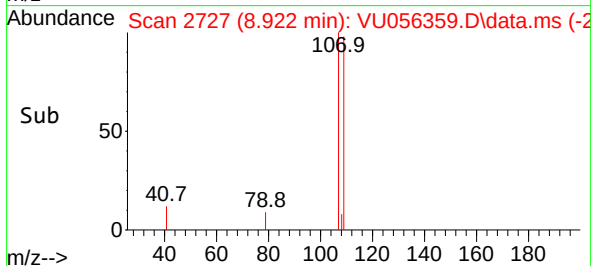
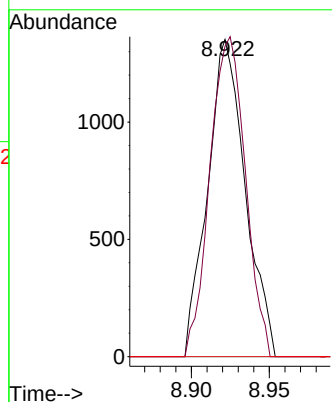
Tgt Ion:107 Resp: 2269

Ion Ratio Lower Upper

107 100

109 97.9 64.2 119.2

188 0.0 2.6 4.0#



#51

Chlorobenzene

Concen: 0.175 ug/L

RT: 9.449 min Scan# 2891

Delta R.T. 0.005 min

Lab File: VU056359.D

Acq: 15 Nov 2023 16:50

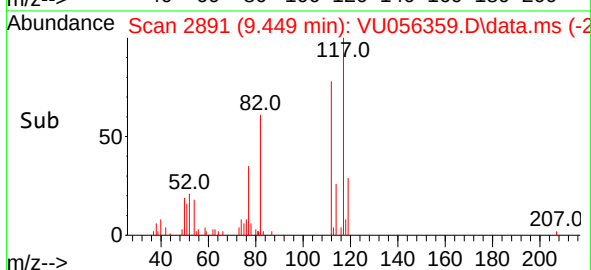
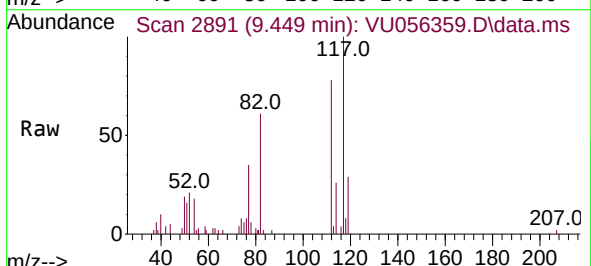
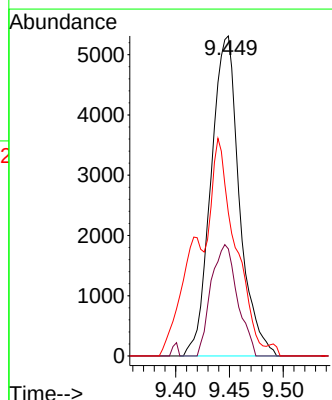
Tgt Ion:112 Resp: 9770

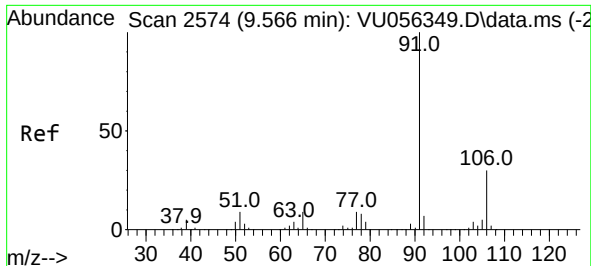
Ion Ratio Lower Upper

112 100

114 31.7 22.5 41.7

77 42.5 51.7 77.5#

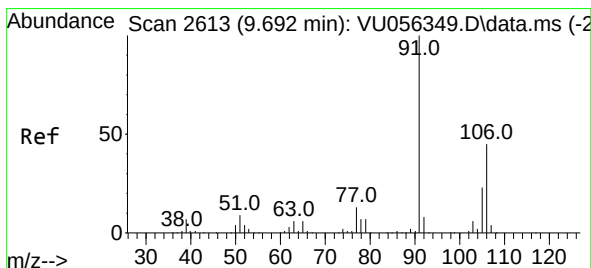
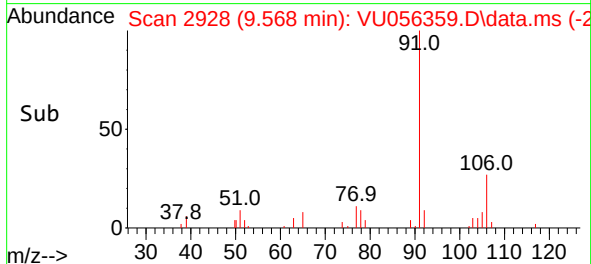
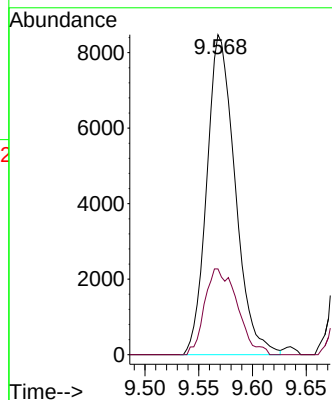
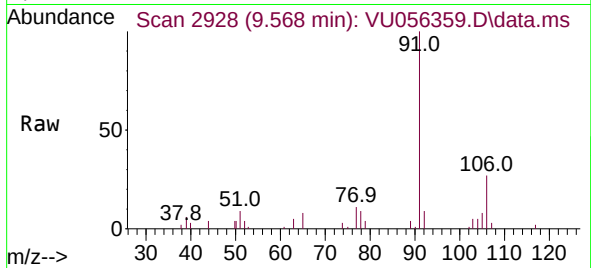




#52
Ethylbenzene
Concen: 0.161 ug/L
RT: 9.568 min Scan# 2967
Delta R.T. 0.002 min
Lab File: VU056359.D
Acq: 15 Nov 2023 16:50

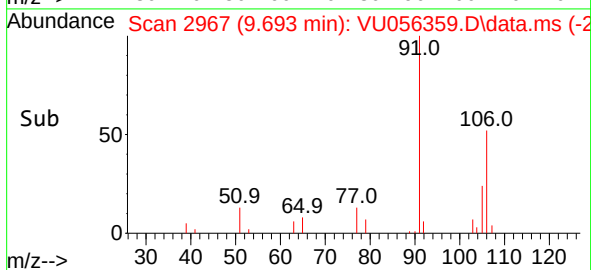
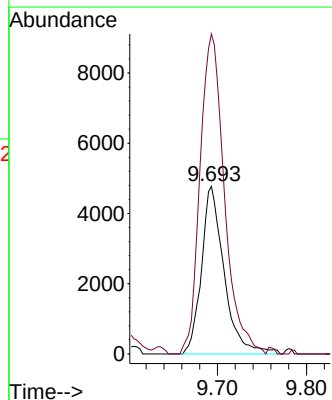
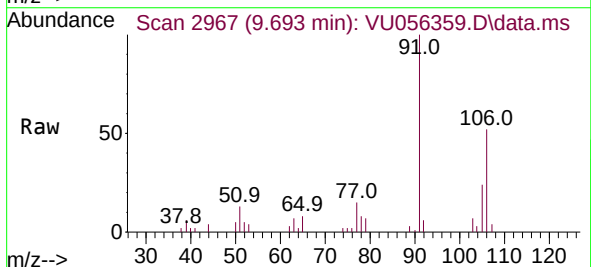
Instrument :
MSVOA_U
ClientSampleId :

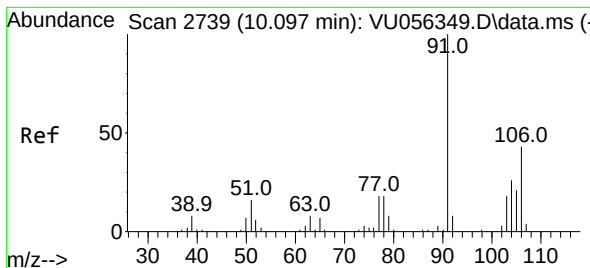
Tgt Ion: 91 Resp: 15532
Ion Ratio Lower Upper
91 100
106 26.8 21.1 39.1



#53
m,p-Xylene
Concen: 0.237 ug/L
RT: 9.693 min Scan# 2967
Delta R.T. 0.002 min
Lab File: VU056359.D
Acq: 15 Nov 2023 16:50

Tgt Ion: 106 Resp: 8422
Ion Ratio Lower Upper
106 100
91 190.9 149.6 277.8





#54

o-Xylene

Concen: 0.177 ug/L

RT: 10.098 min Scan# 3093

Delta R.T. 0.002 min

Lab File: VU056359.D

Acq: 15 Nov 2023 16:50

Instrument :

MSVOA_U

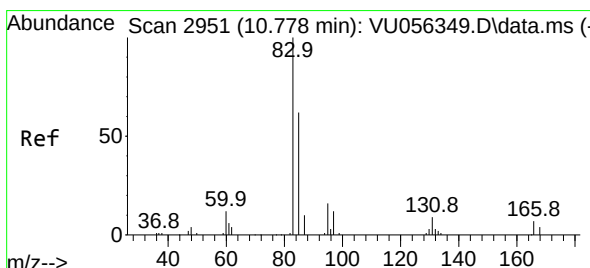
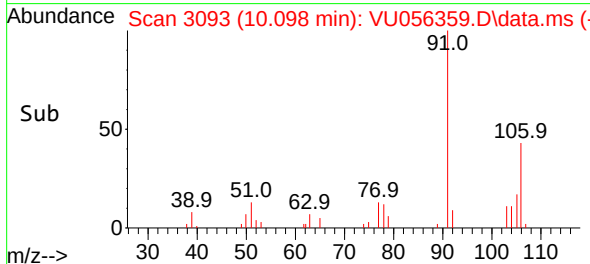
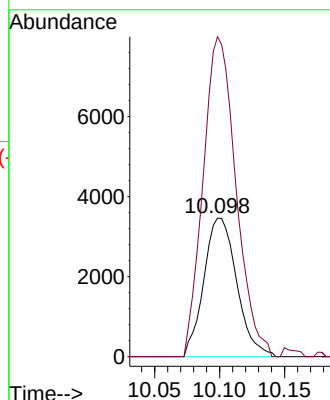
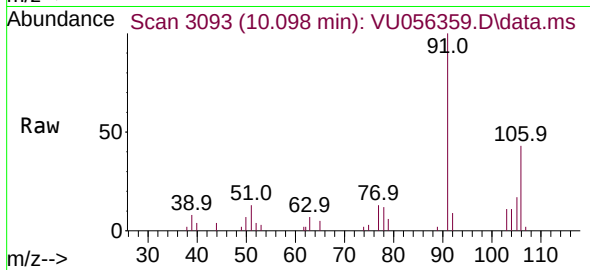
ClientSampleId :

Tgt Ion:106 Resp: 6100

Ion Ratio Lower Upper

106 100

91 231.0 159.3 295.9



#57

1,1,2,2-Tetrachloroethane

Concen: 0.168 ug/L

RT: 10.780 min Scan# 3305

Delta R.T. 0.002 min

Lab File: VU056359.D

Acq: 15 Nov 2023 16:50

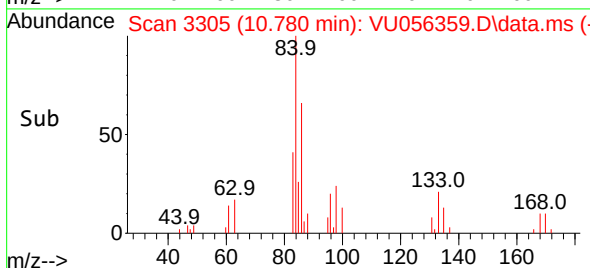
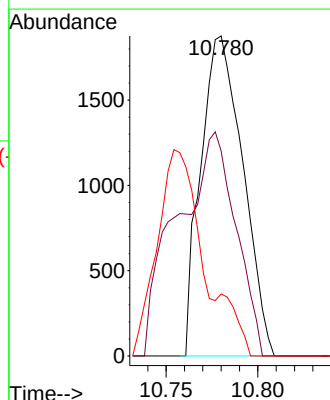
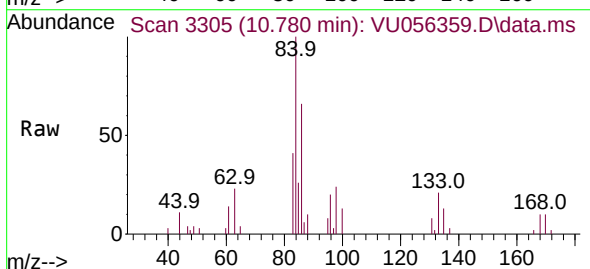
Tgt Ion: 83 Resp: 2993

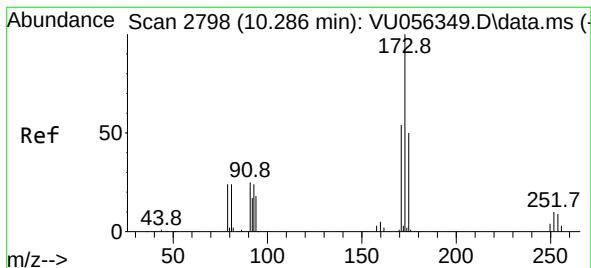
Ion Ratio Lower Upper

83 100

85 64.0 46.3 86.1

131 19.4 6.7 10.1#





#59

Bromoform

Concen: 0.193 ug/L

RT: 10.291 min Scan# 3153

Delta R.T. 0.005 min

Lab File: VU056359.D

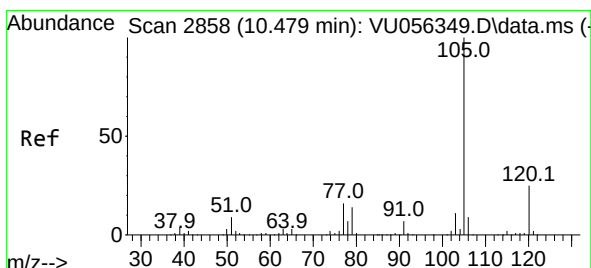
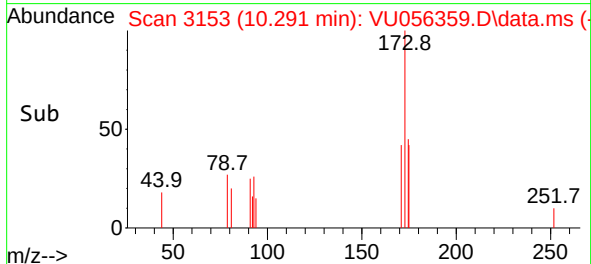
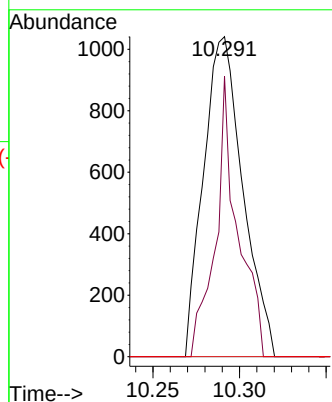
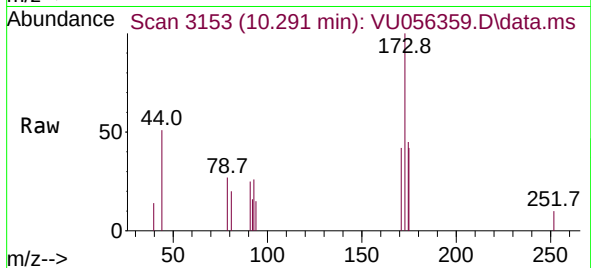
Acq: 15 Nov 2023 16:50

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:	173	Resp:	1644
Ion Ratio	Lower	Upper	
173	100		
175	49.6	38.9	58.3
254	0.0	6.7	10.1



#60

Isopropylbenzene

Concen: 0.149 ug/L

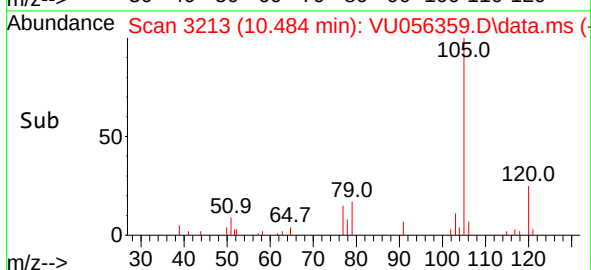
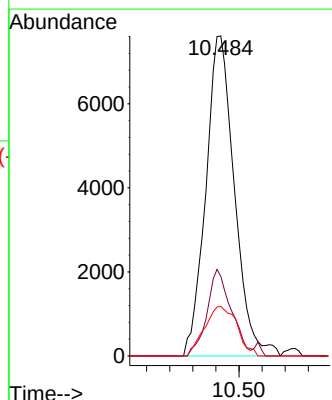
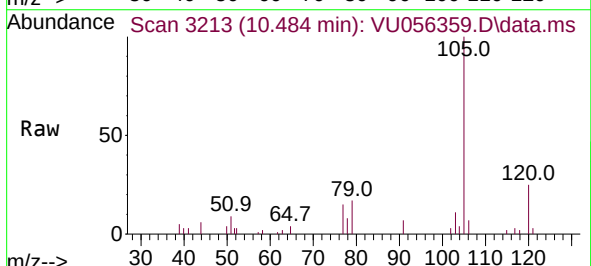
RT: 10.484 min Scan# 3213

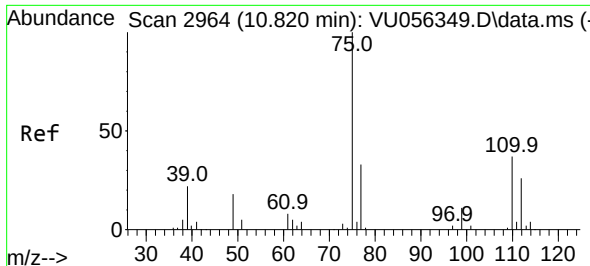
Delta R.T. 0.005 min

Lab File: VU056359.D

Acq: 15 Nov 2023 16:50

Tgt Ion:	105	Resp:	13098
Ion Ratio	Lower	Upper	
105	100		
120	22.9	20.4	30.6
77	17.4	13.3	19.9

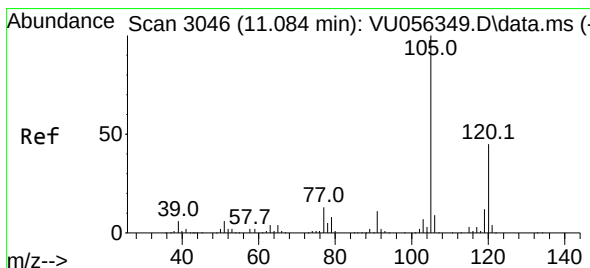
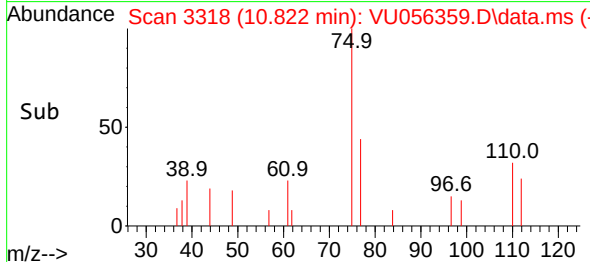
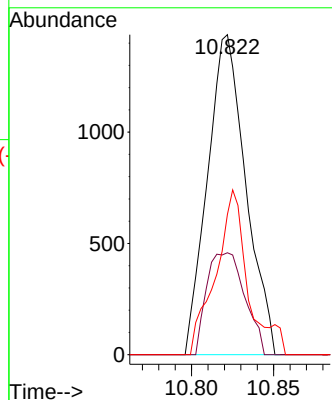
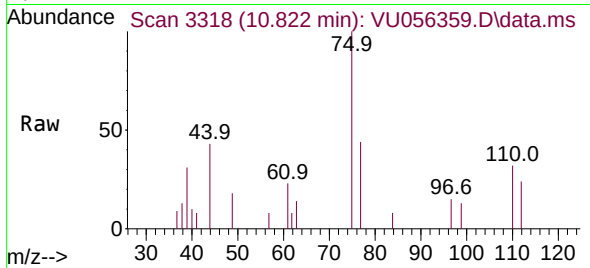




#61
 1,2,3-Trichloropropane
 Concen: 0.199 ug/L
 RT: 10.822 min Scan# 311
 Delta R.T. 0.002 min
 Lab File: VU056359.D
 Acq: 15 Nov 2023 16:50

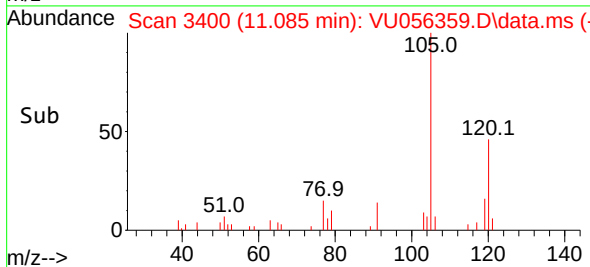
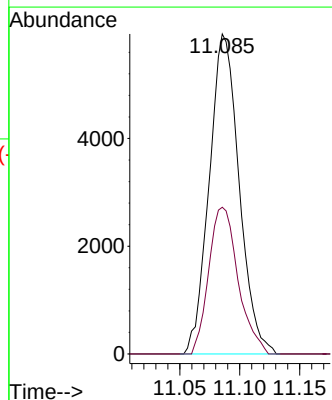
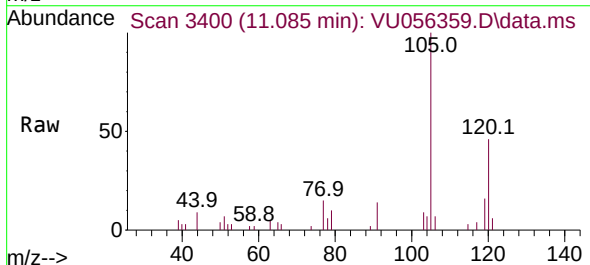
Instrument :
 MSVOA_U
 ClientSampleId :

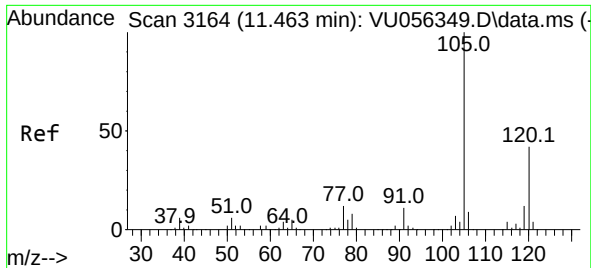
Tgt Ion: 75 Resp: 2332
 Ion Ratio Lower Upper
 75 100
 110 31.6 30.4 45.6
 77 43.4 27.0 40.6#



#62
 1,3,5-Trimethylbenzene
 Concen: 0.142 ug/L
 RT: 11.085 min Scan# 3400
 Delta R.T. 0.002 min
 Lab File: VU056359.D
 Acq: 15 Nov 2023 16:50

Tgt Ion: 105 Resp: 10284
 Ion Ratio Lower Upper
 105 100
 120 45.0 37.2 55.8

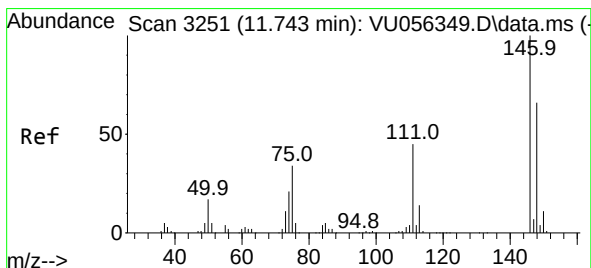
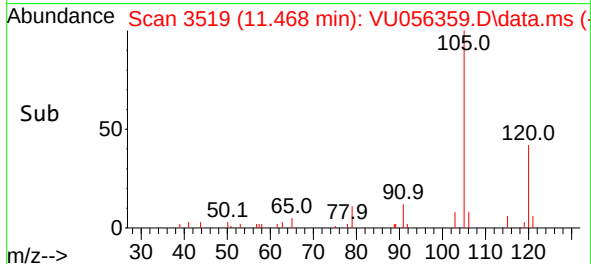
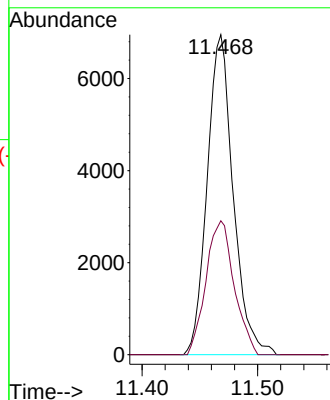
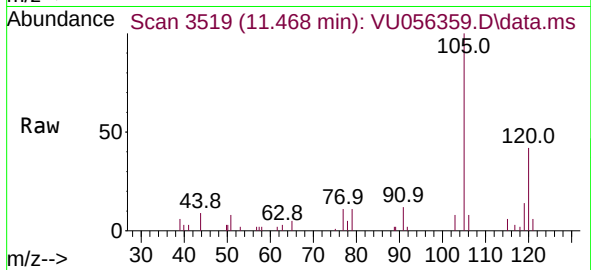




#63
1,2,4-Trimethylbenzene
Concen: 0.152 ug/L
RT: 11.468 min Scan# 3164
Delta R.T. 0.005 min
Lab File: VU056359.D
Acq: 15 Nov 2023 16:50

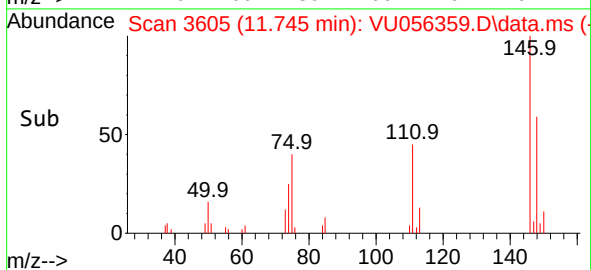
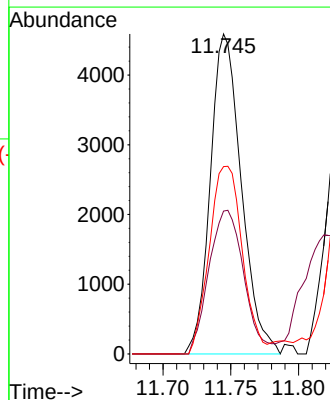
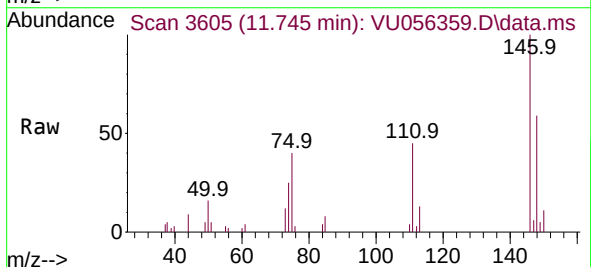
Instrument :
MSVOA_U
ClientSampleId :

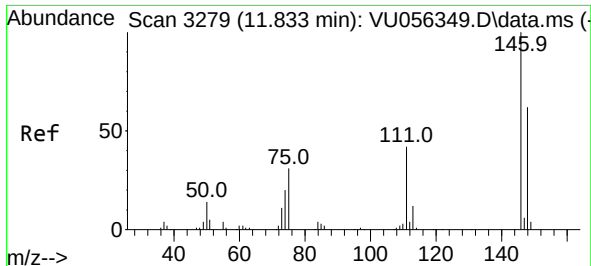
Tgt Ion:105 Resp: 10850
Ion Ratio Lower Upper
105 100
120 45.4 34.0 51.0



#64
1,3-Dichlorobenzene
Concen: 0.182 ug/L
RT: 11.745 min Scan# 3605
Delta R.T. 0.002 min
Lab File: VU056359.D
Acq: 15 Nov 2023 16:50

Tgt Ion:146 Resp: 7300
Ion Ratio Lower Upper
146 100
111 44.6 31.1 57.7
148 58.6 45.1 83.9

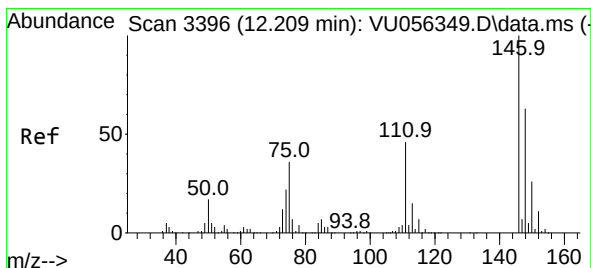
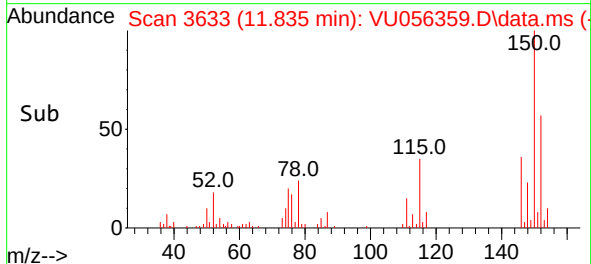
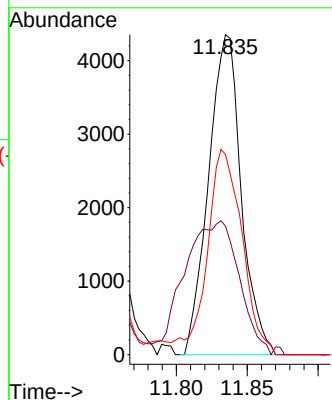
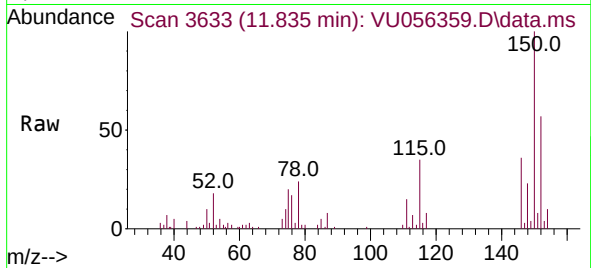




#65
 1,4-Dichlorobenzene
 Concen: 0.174 ug/L
 RT: 11.835 min Scan# 3070
 Delta R.T. 0.002 min
 Lab File: VU056359.D
 Acq: 15 Nov 2023 16:50

Instrument :
 MSVOA_U
 ClientSampleId :

Tgt Ion:146 Resp: 6989
 Ion Ratio Lower Upper
 146 100
 111 40.2 30.5 56.7
 148 62.6 44.8 83.2



#67
 1,2-Dichlorobenzene
 Concen: 0.188 ug/L
 RT: 12.211 min Scan# 3750
 Delta R.T. 0.002 min
 Lab File: VU056359.D
 Acq: 15 Nov 2023 16:50

Tgt Ion:146 Resp: 6931
 Ion Ratio Lower Upper
 146 100
 111 56.5 38.3 57.5
 148 72.8 52.2 78.4

