

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU060922\
 Data File : VU048984.D
 Acq On : 09 Jun 2022 18:29
 Operator : SY/MD
 Sample : N3248-09
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EXYY0

Quant Time: Jun 10 01:05:24 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM051622WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jun 10 01:01:44 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.250	114	321570	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	302039	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	147040	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	103126	52.359	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	= 104.720%	
7) Chloroethane-d5	1.900	69	73673	49.927	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	= 99.860%	
11) 1,1-Dichloroethene-d2	2.562	63	148633	33.368	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	= 66.740%	
21) 2-Butanone-d5	4.620	46	224112	119.570	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	= 119.570%	
24) Chloroform-d	5.063	84	214862	43.170	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	= 86.340%	
26) 1,2-Dichloroethane-d4	5.700	65	138356	39.403	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	= 78.800%	
32) Benzene-d6	5.726	84	404076	48.070	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	= 96.140%	
36) 1,2-Dichloropropane-d6	6.690	67	140786	57.050	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	= 114.100%	
41) Toluene-d8	7.899	98	359735	45.497	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	= 91.000%	
43) trans-1,3-Dichloroprop...	8.179	79	67723	42.917	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	= 85.840%	
47) 2-Hexanone-d5	8.632	63	150489	111.198	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	= 111.200%	
56) 1,1,2,2-Tetrachloroeth...	10.758	84	207328	50.773	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	= 101.540%	
66) 1,2-Dichlorobenzene-d4	12.195	152	141677	47.133	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	= 94.260%	
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.601	62	134249	59.187	ug/L	97
8) Chloroethane	1.922	64	1244714	932.324	ug/L	100
9) Trichlorofluoromethane	2.131	101	2349	0.530	ug/L	94
12) 1,1-Dichloroethene	2.575	96	19317	9.233	ug/L #	1
13) Acetone	2.626	43	4241	2.785	ug/L	94
17) trans-1,2-Dichloroethene	3.350	96	11091	4.915	ug/L	91
19) 1,1-Dichloroethane	3.867	63	1536078	371.813	ug/L	99
20) cis-1,2-Dichloroethene	4.665	96	771350	303.103	ug/L	99
27) 1,2-Dichloroethane	5.796	62	5919	1.431	ug/L #	92
30) 1,1,1-Trichloroethane	5.317	97	1756424	384.061	ug/L	99
33) Benzene	5.774	78	8352	0.946	ug/L	100
34) Trichloroethene	6.542	95	18153	7.271	ug/L	95
35) Methylcyclohexane	6.764	83	2879	0.804	ug/L #	83
42) Toluene	7.970	91	232275	24.150	ug/L	100
46) Tetrachloroethene	8.555	164	33065	16.230	ug/L	95
52) Ethylbenzene	9.571	91	69685	6.340	ug/L	97
53) m,p-Xylene	9.690	106	53739	12.166	ug/L	95
54) o-Xylene	10.099	106	33340	7.879	ug/L	99
61) Isopropylbenzene	10.484	105	11144	1.231	ug/L	98

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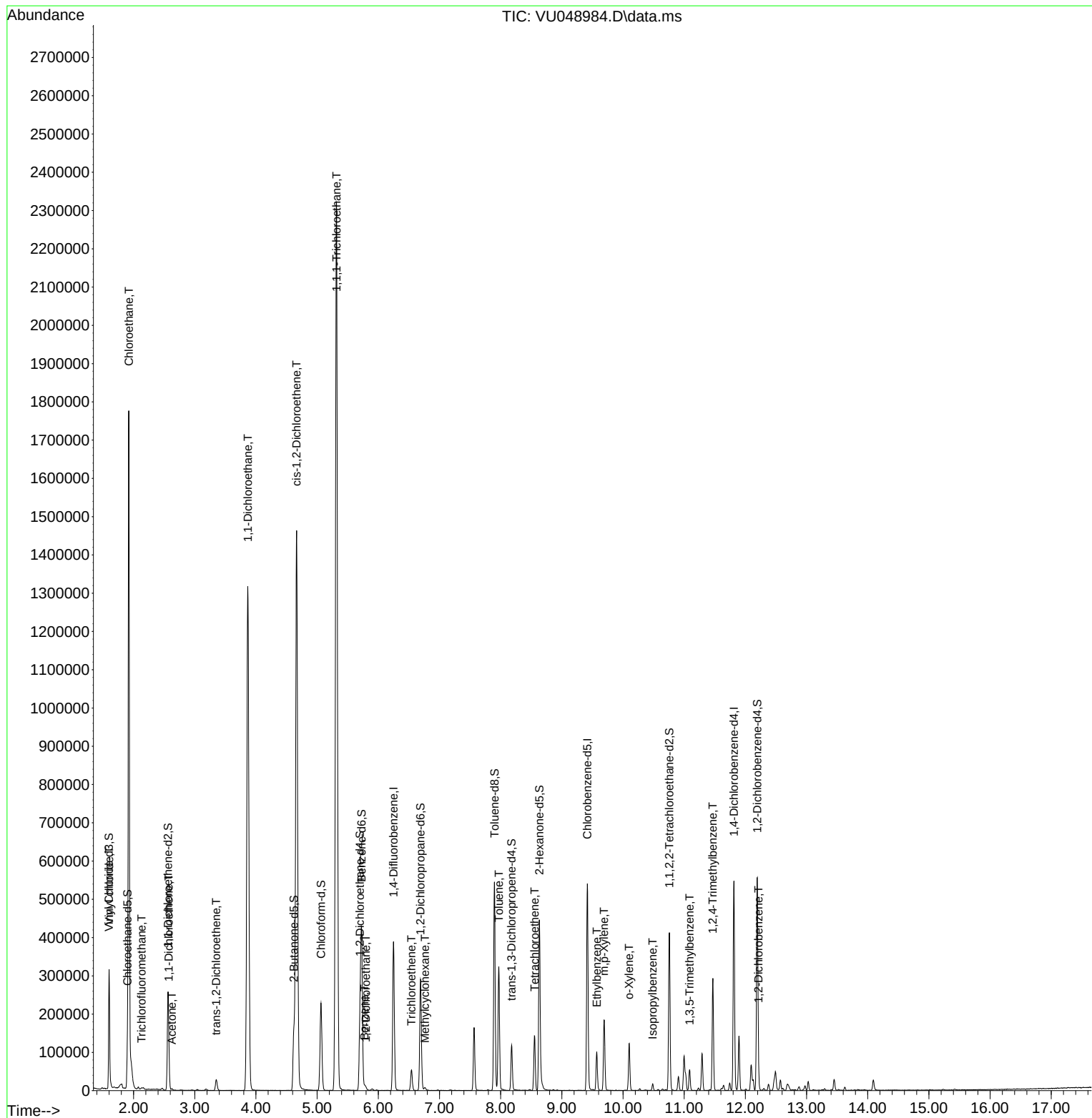
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3,5-Trimethylbenzene	11.089	105	30252	5.876	ug/L	98
63) 1,2,4-Trimethylbenzene	11.468	105	161197	20.136	ug/L	100
67) 1,2-Dichlorobenzene	12.214	146	7978	1.680	ug/L	98

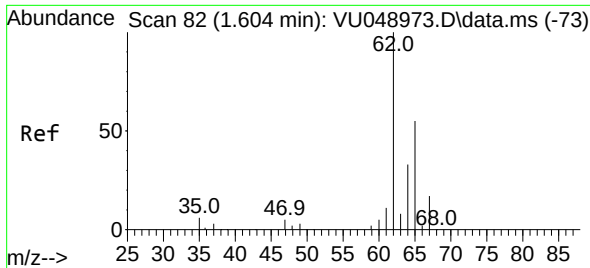
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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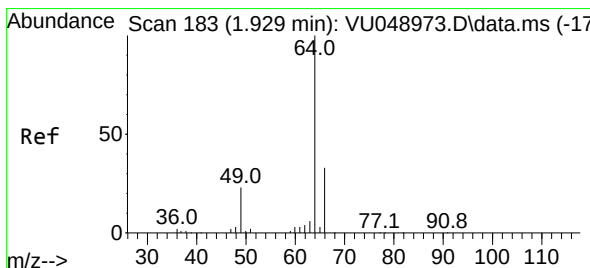
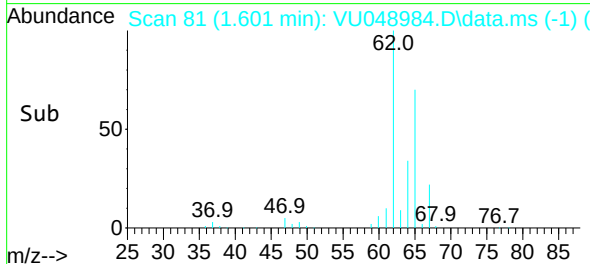
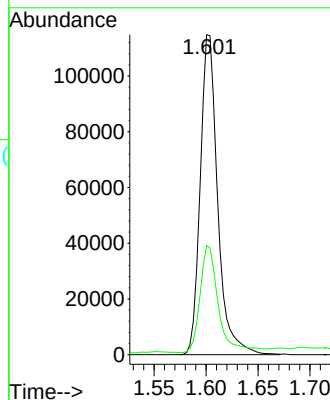
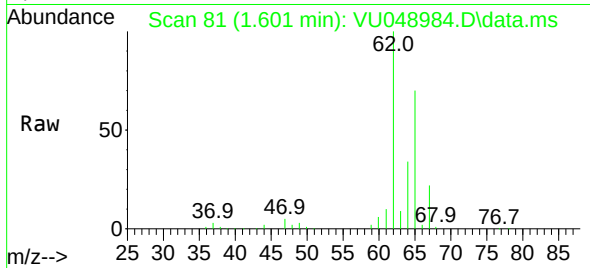




#5
 Vinyl chloride
 Concen: 59.187 ug/L
 RT: 1.601 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VU048984.D
 Acq: 09 Jun 2022 18:29

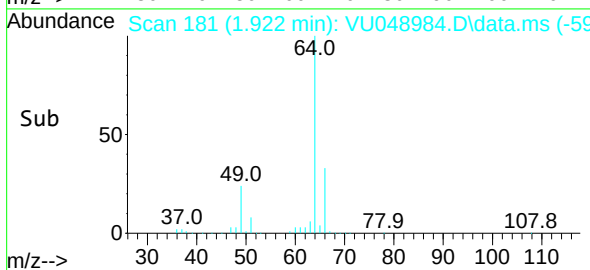
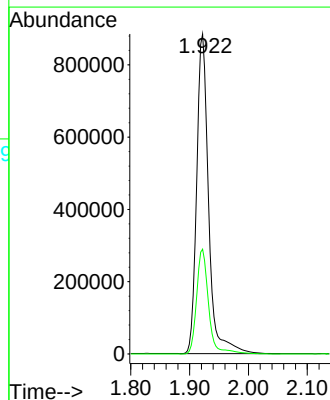
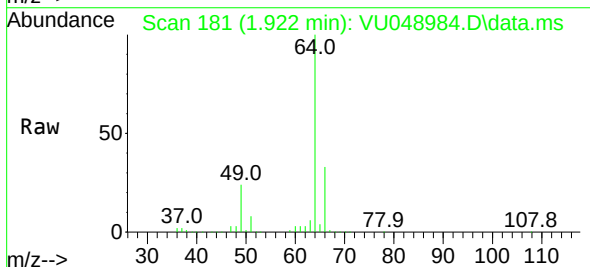
Instrument :
 MSVOA_U
 ClientSampleId :
 EXYY0

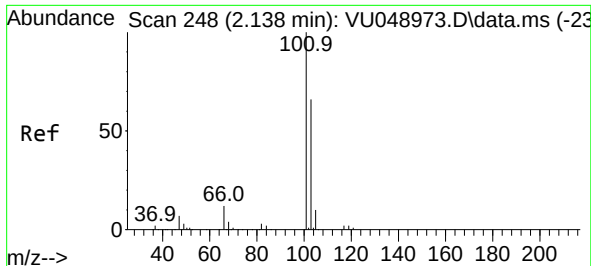
Tgt Ion: 62 Resp: 134249
 Ion Ratio Lower Upper
 62 100
 64 34.1 22.9 42.5



#8
 Chloroethane
 Concen: 932.324 ug/L
 RT: 1.922 min Scan# 181
 Delta R.T. -0.006 min
 Lab File: VU048984.D
 Acq: 09 Jun 2022 18:29

Tgt Ion: 64 Resp: 1244714
 Ion Ratio Lower Upper
 64 100
 66 32.7 23.1 42.9

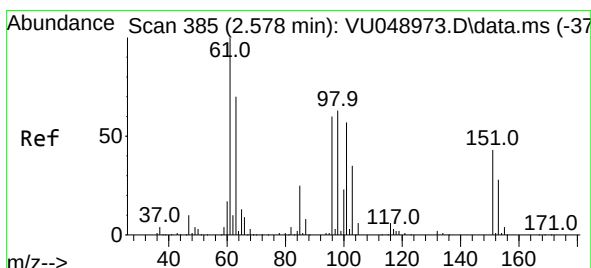
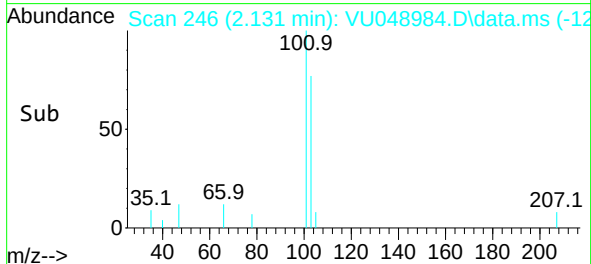
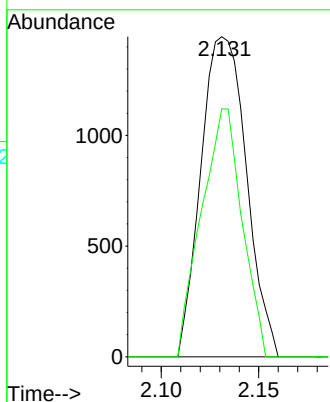
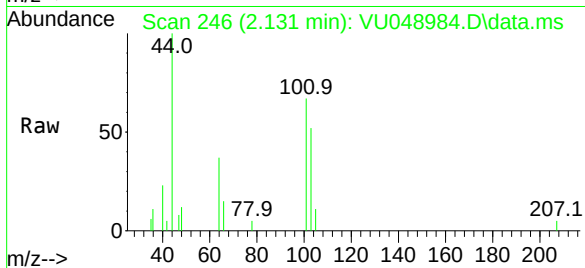




#9
 Trichlorofluoromethane
 Concen: 0.530 ug/L
 RT: 2.131 min Scan# 24
 Delta R.T. -0.006 min
 Lab File: VU048984.D
 Acq: 09 Jun 2022 18:29

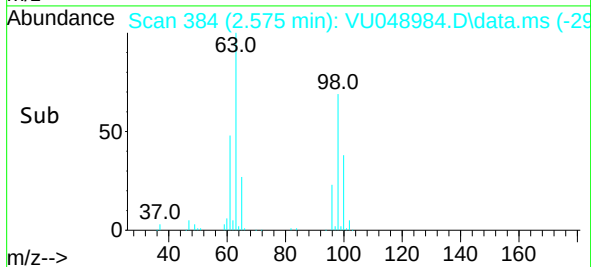
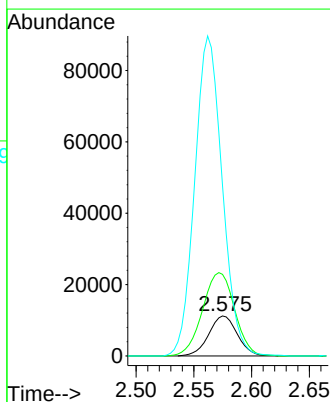
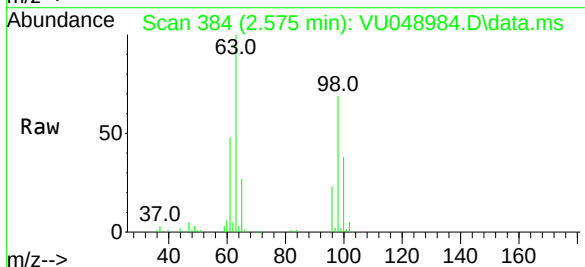
Instrument :
 MSVOA_U
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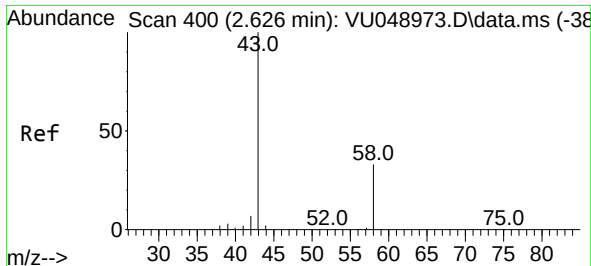
Tgt Ion:101 Resp: 2349
 Ion Ratio Lower Upper
 101 100
 103 69.0 51.6 77.4



#12
 1,1-Dichloroethene
 Concen: 9.233 ug/L
 RT: 2.575 min Scan# 384
 Delta R.T. -0.003 min
 Lab File: VU048984.D
 Acq: 09 Jun 2022 18:29

Tgt Ion: 96 Resp: 19317
 Ion Ratio Lower Upper
 96 100
 61 203.7 120.6 224.0
 63 425.8 82.3 152.9#





#13

Acetone

Concen: 2.785 ug/L

RT: 2.626 min Scan# 400

Delta R.T. -0.000 min

Lab File: VU048984.D

Acq: 09 Jun 2022 18:29

Instrument :

MSVOA_U

ClientSampleId :

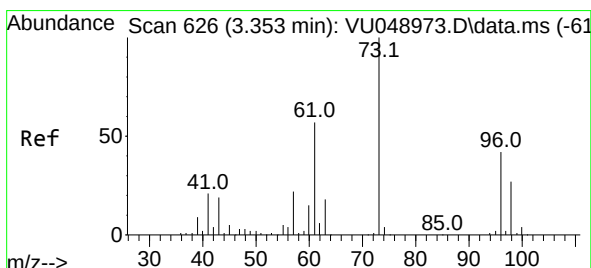
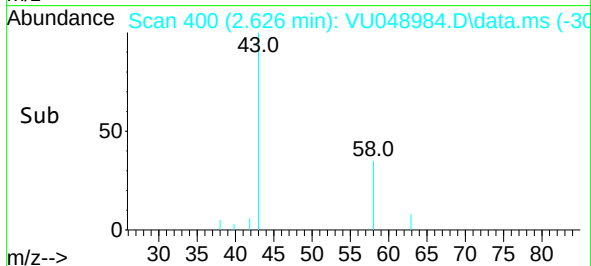
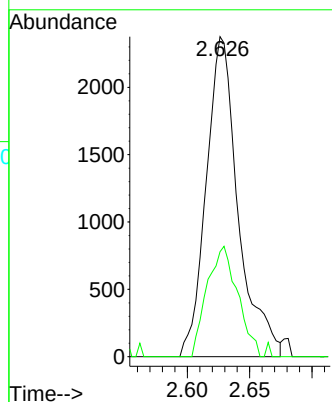
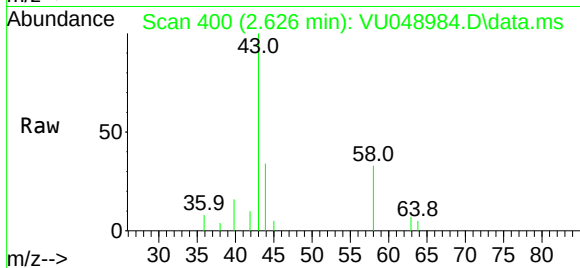
EXYY0

Tgt Ion: 43 Resp: 4241

Ion Ratio Lower Upper

43 100

58 33.1 0.0 59.8



#17

trans-1,2-Dichloroethene

Concen: 4.915 ug/L

RT: 3.350 min Scan# 625

Delta R.T. -0.003 min

Lab File: VU048984.D

Acq: 09 Jun 2022 18:29

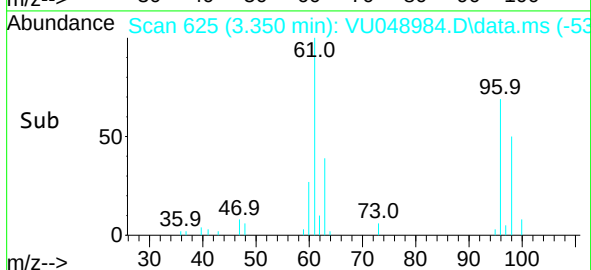
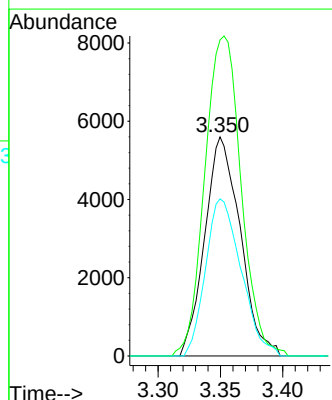
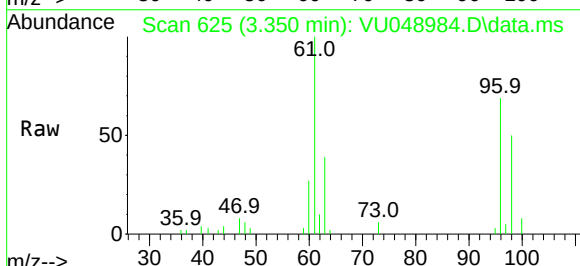
Tgt Ion: 96 Resp: 11091

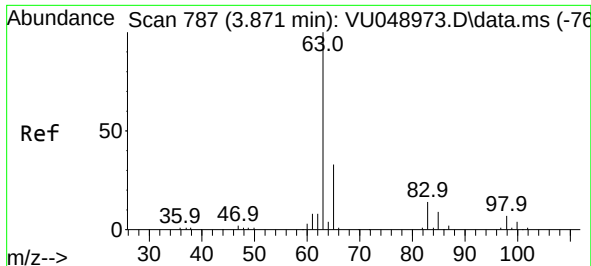
Ion Ratio Lower Upper

96 100

61 144.3 94.2 175.0

98 71.7 45.1 83.7





#19

1,1-Dichloroethane

Concen: 371.813 ug/L

RT: 3.867 min Scan# 71

Delta R.T. -0.003 min

Lab File: VU048984.D

Acq: 09 Jun 2022 18:29

Instrument :

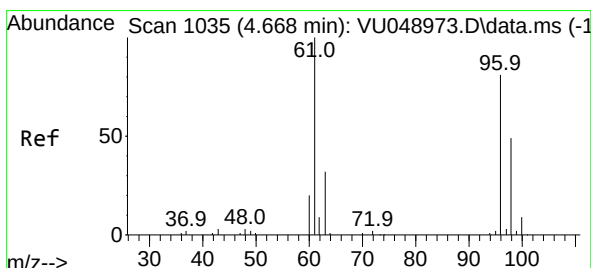
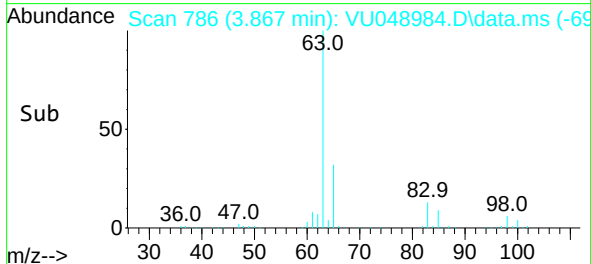
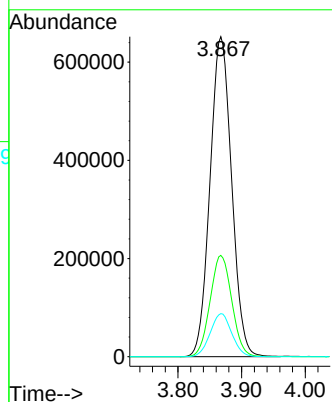
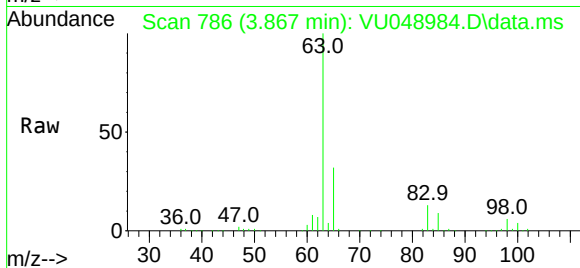
MSVOA_U

ClientSampleId :

EXYY0

Tgt Ion: 63 Resp: 1536078

Ion	Ratio	Lower	Upper
63	100		
65	31.6	21.8	40.6
83	13.4	9.8	18.2



#20

cis-1,2-Dichloroethene

Concen: 303.103 ug/L

RT: 4.665 min Scan# 1034

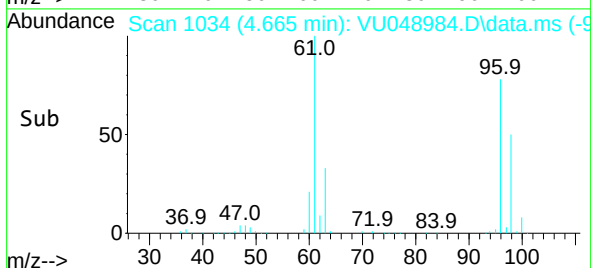
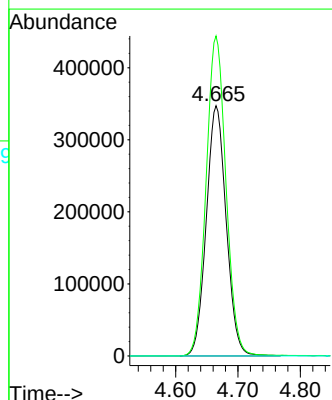
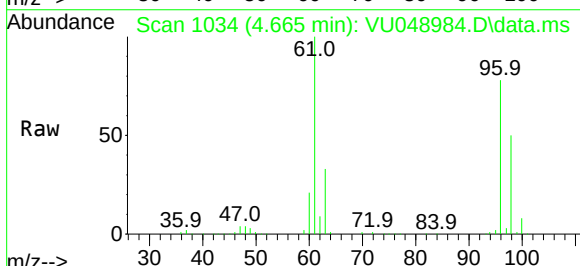
Delta R.T. -0.003 min

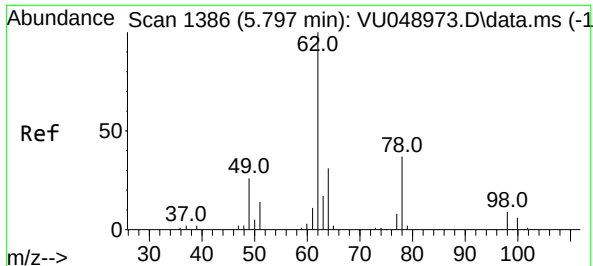
Lab File: VU048984.D

Acq: 09 Jun 2022 18:29

Tgt Ion: 96 Resp: 771350

Ion	Ratio	Lower	Upper
96	100		
61	127.9	88.3	164.1
68	0.0	0.0	0.0

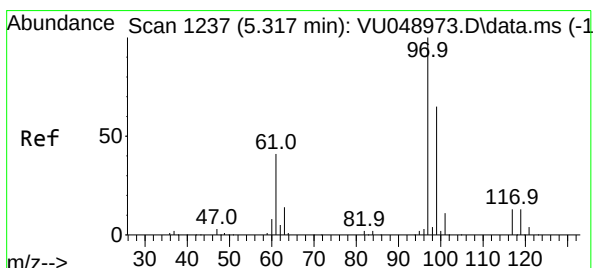
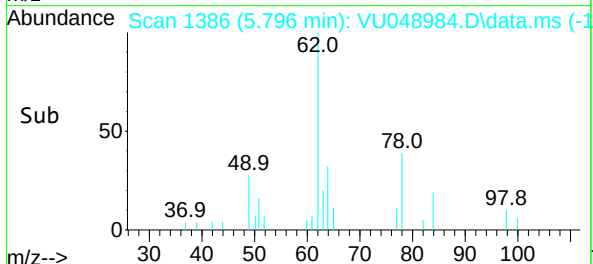
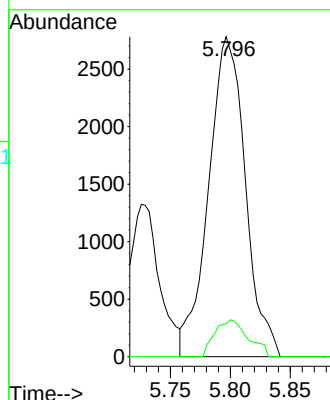
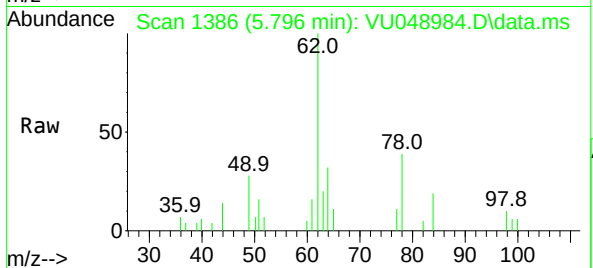




#27
1,2-Dichloroethane
Concen: 1.431 ug/L
RT: 5.796 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU048984.D
Acq: 09 Jun 2022 18:29

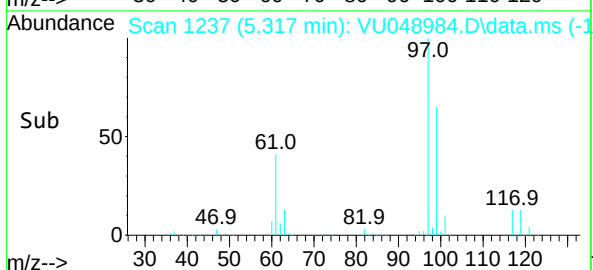
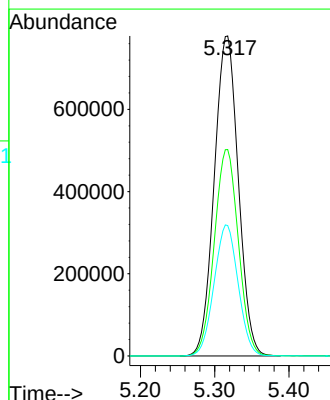
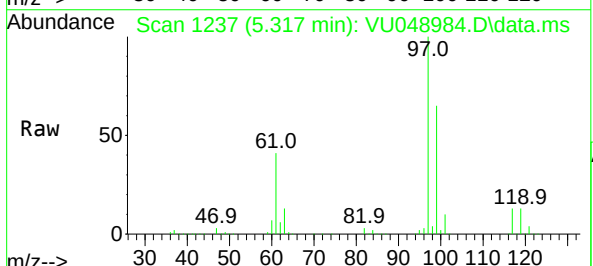
Instrument :
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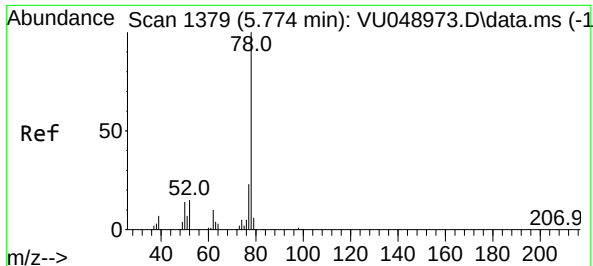
Tgt Ion: 62 Resp: 5919
Ion Ratio Lower Upper
62 100
98 10.3 6.0 9.0#



#30
1,1,1-Trichloroethane
Concen: 384.061 ug/L
RT: 5.317 min Scan# 1237
Delta R.T. -0.000 min
Lab File: VU048984.D
Acq: 09 Jun 2022 18:29

Tgt Ion: 97 Resp: 1756424
Ion Ratio Lower Upper
97 100
99 64.6 50.3 75.5
61 40.9 32.6 48.8

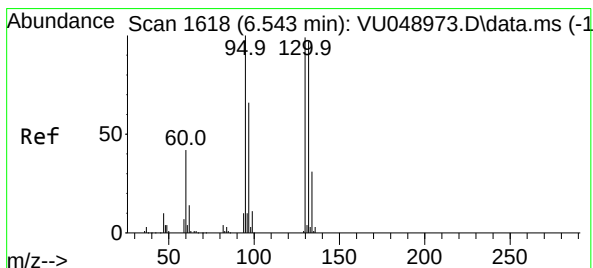
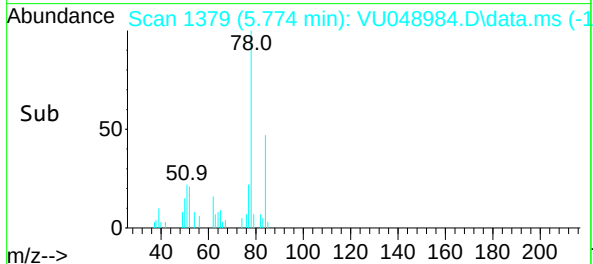
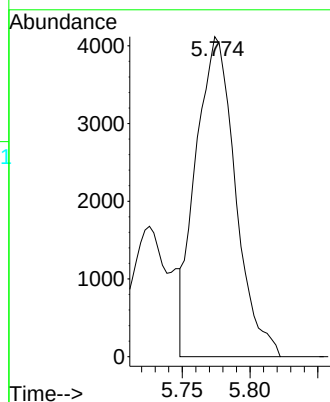
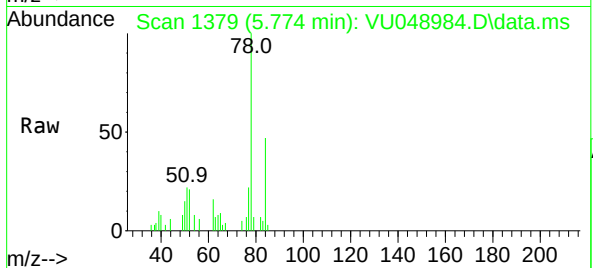




#33
Benzene
Concen: 0.946 ug/L
RT: 5.774 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU048984.D
Acq: 09 Jun 2022 18:29

Instrument :
MSVOA_U
ClientSampleId :
EXYY0

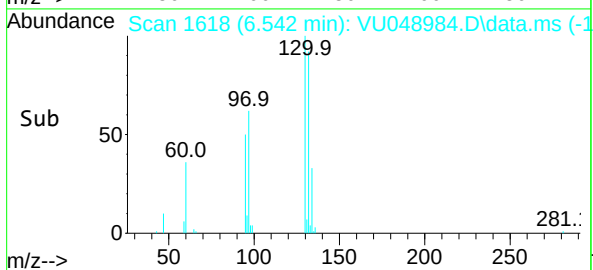
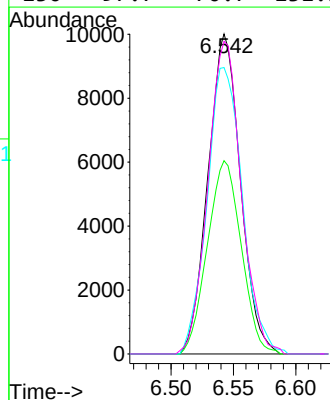
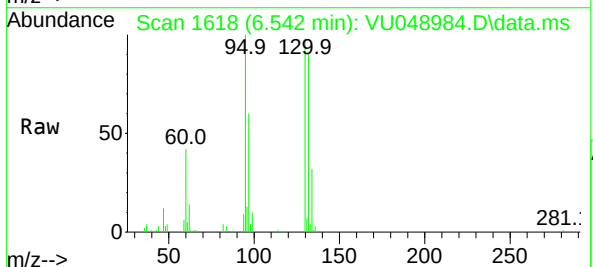
Tgt Ion: 78 Resp: 8352

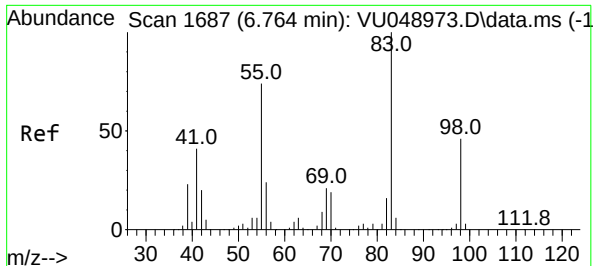


#34
Trichloroethene
Concen: 7.271 ug/L
RT: 6.542 min Scan# 1618
Delta R.T. -0.000 min
Lab File: VU048984.D
Acq: 09 Jun 2022 18:29

Tgt Ion: 95 Resp: 18153

Ion	Ratio	Lower	Upper
95	100		
97	60.4	45.2	84.0
132	89.5	67.3	124.9
130	97.7	70.7	131.3





#35

Methylcyclohexane

Concen: 0.804 ug/L

RT: 6.764 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU048984.D

Acq: 09 Jun 2022 18:29

Instrument :

MSVOA_U

ClientSampleId :

EXYY0

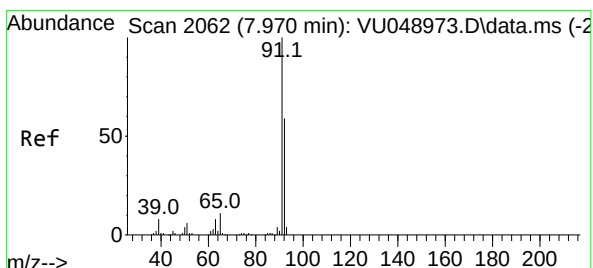
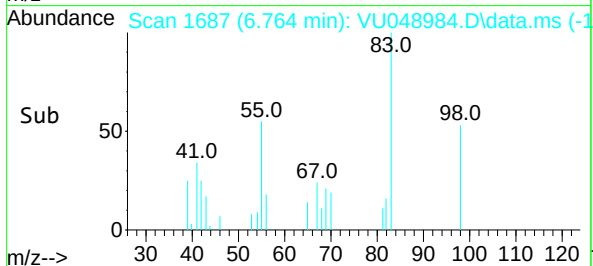
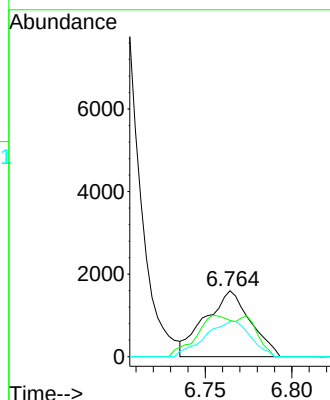
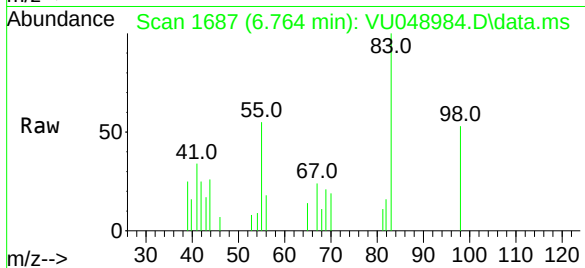
Tgt Ion: 83 Resp: 2879

Ion Ratio Lower Upper

83 100

55 52.1 56.2 84.4#

98 54.0 38.2 57.2



#42

Toluene

Concen: 24.150 ug/L

RT: 7.970 min Scan# 2062

Delta R.T. -0.000 min

Lab File: VU048984.D

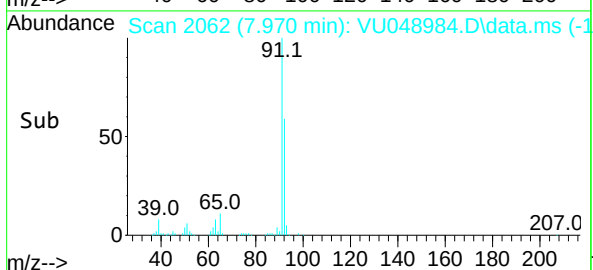
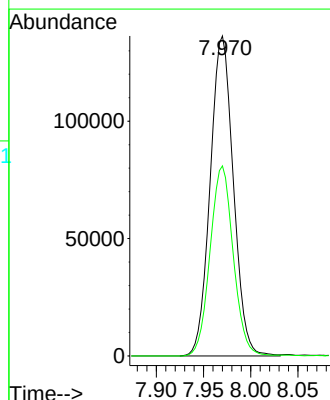
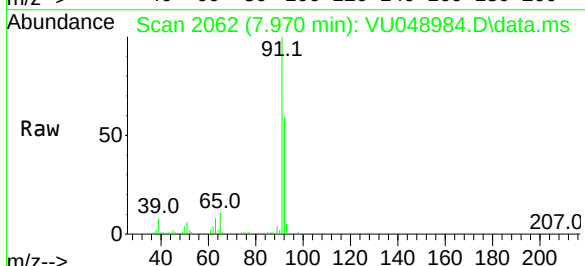
Acq: 09 Jun 2022 18:29

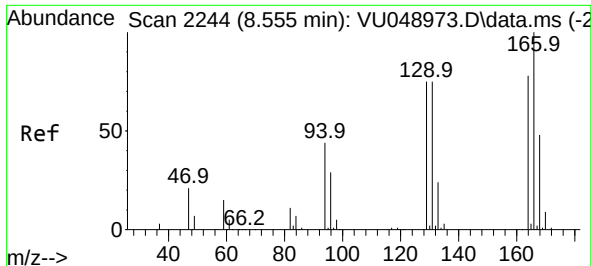
Tgt Ion: 91 Resp: 232275

Ion Ratio Lower Upper

91 100

92 59.4 41.4 77.0

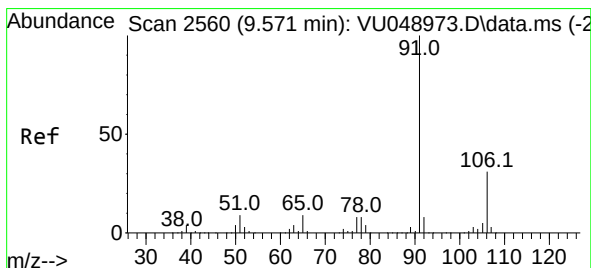
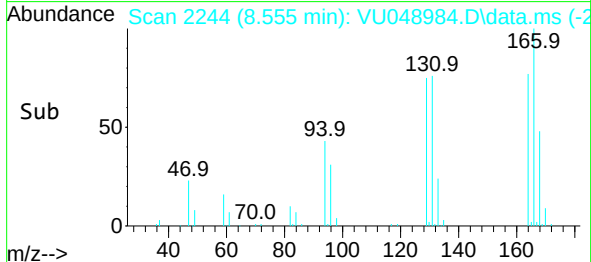
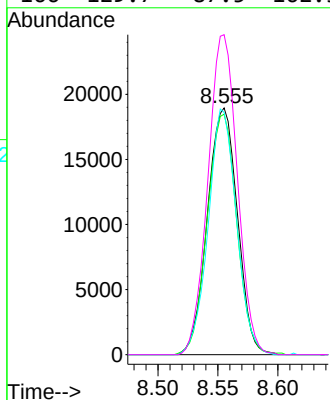
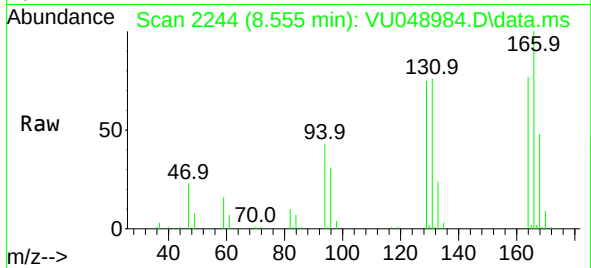




#46
Tetrachloroethene
Concen: 16.230 ug/L
RT: 8.555 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU048984.D
Acq: 09 Jun 2022 18:29

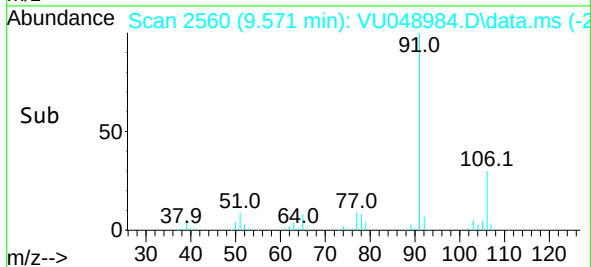
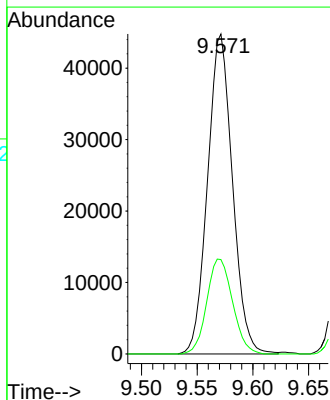
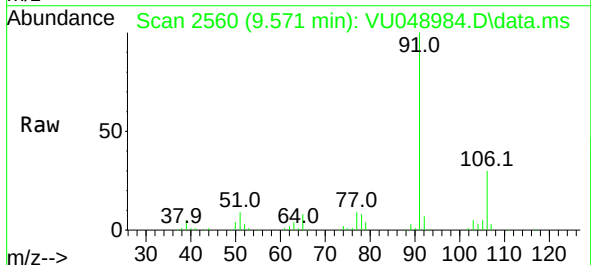
Instrument :
MSVOA_U
ClientSampleId :
EXYY0

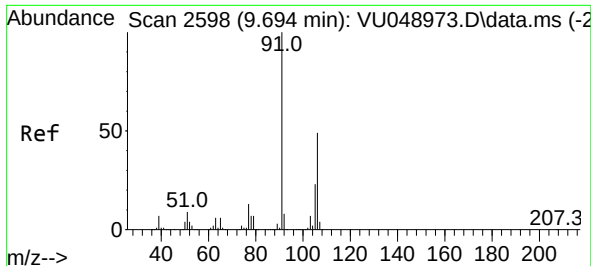
Tgt Ion:164 Resp: 33065
Ion Ratio Lower Upper
164 100
129 97.5 64.3 119.3
131 98.2 64.5 119.7
166 129.7 87.5 162.5



#52
Ethylbenzene
Concen: 6.340 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. -0.000 min
Lab File: VU048984.D
Acq: 09 Jun 2022 18:29

Tgt Ion: 91 Resp: 69685
Ion Ratio Lower Upper
91 100
106 29.5 21.8 40.6

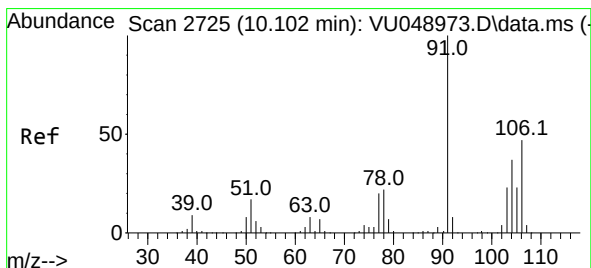
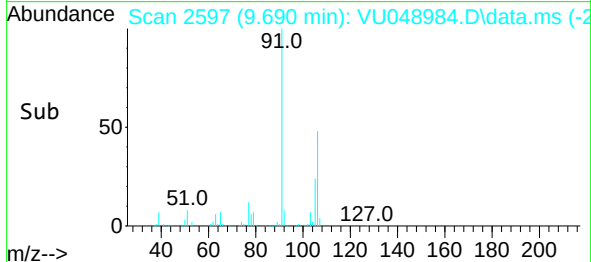
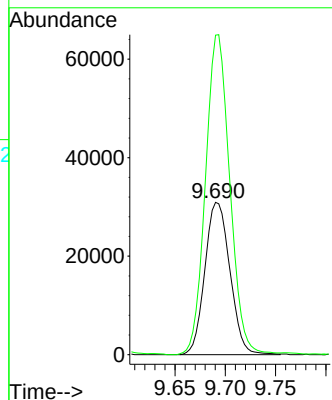
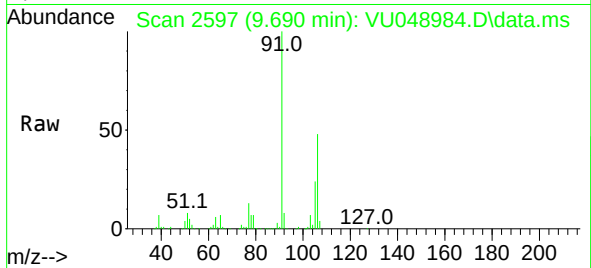




#53
m,p-Xylene
Concen: 12.166 ug/L
RT: 9.690 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU048984.D
Acq: 09 Jun 2022 18:29

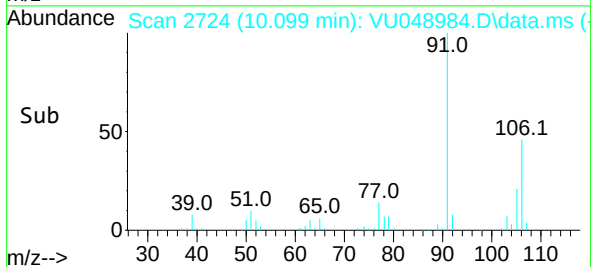
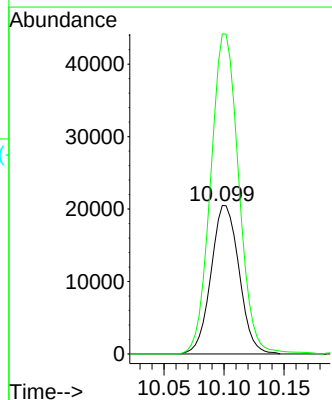
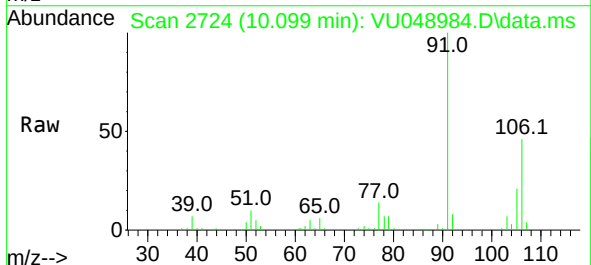
Instrument :
MSVOA_U
ClientSampleId :
EXYY0

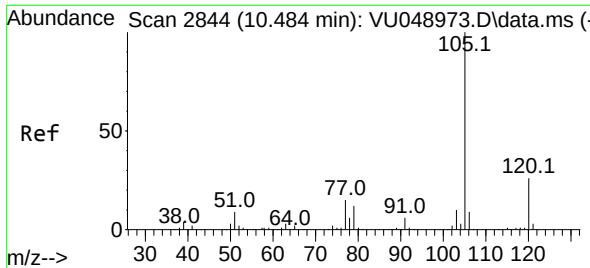
Tgt Ion:106 Resp: 53739
Ion Ratio Lower Upper
106 100
91 209.8 141.8 263.4



#54
o-Xylene
Concen: 7.879 ug/L
RT: 10.099 min Scan# 2724
Delta R.T. -0.003 min
Lab File: VU048984.D
Acq: 09 Jun 2022 18:29

Tgt Ion:106 Resp: 33340
Ion Ratio Lower Upper
106 100
91 215.4 150.1 278.9

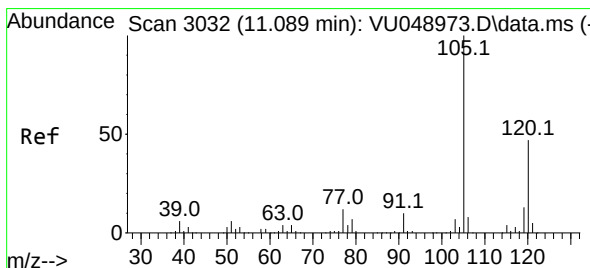
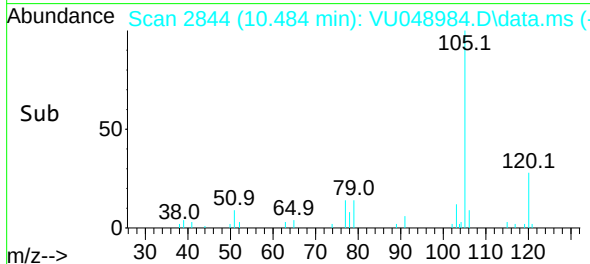
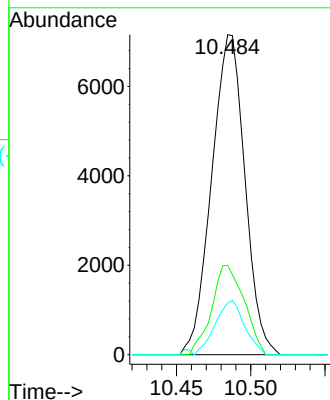
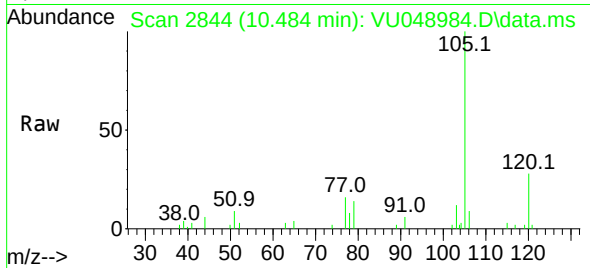




#61
Isopropylbenzene
Concen: 1.231 ug/L
RT: 10.484 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU048984.D
Acq: 09 Jun 2022 18:29

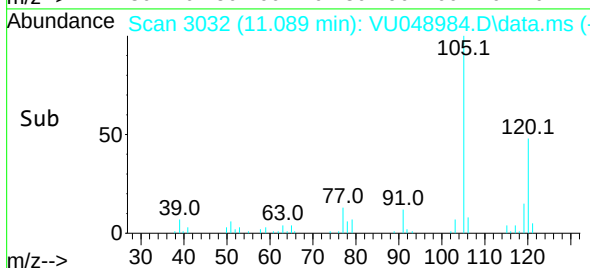
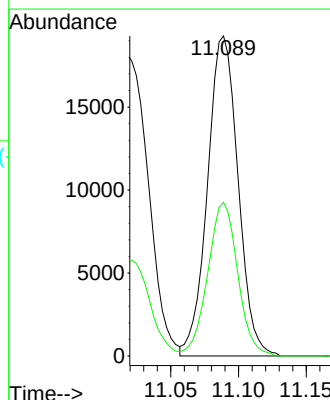
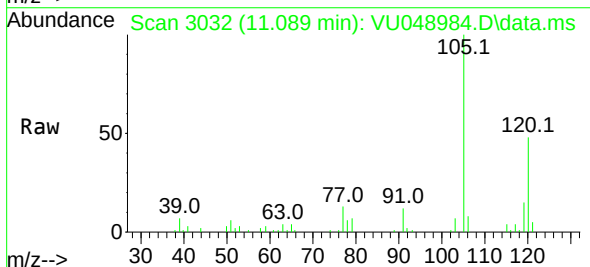
Instrument :
MSVOA_U
ClientSampleId :
EXYY0

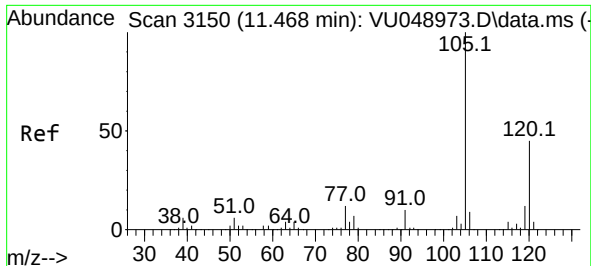
Tgt Ion:105 Resp: 11144
Ion Ratio Lower Upper
105 100
120 27.3 21.0 31.6
77 14.9 12.5 18.7



#62
1,3,5-Trimethylbenzene
Concen: 5.876 ug/L
RT: 11.089 min Scan# 3032
Delta R.T. -0.000 min
Lab File: VU048984.D
Acq: 09 Jun 2022 18:29

Tgt Ion:105 Resp: 30252
Ion Ratio Lower Upper
105 100
120 47.1 38.5 57.7

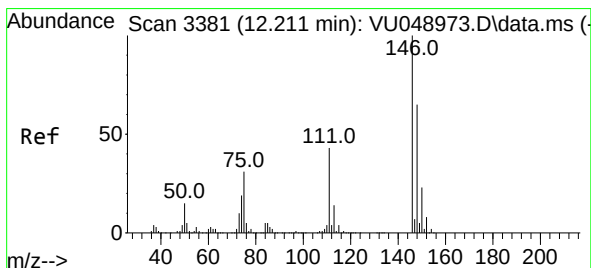
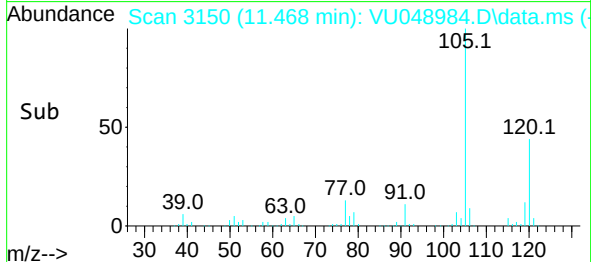
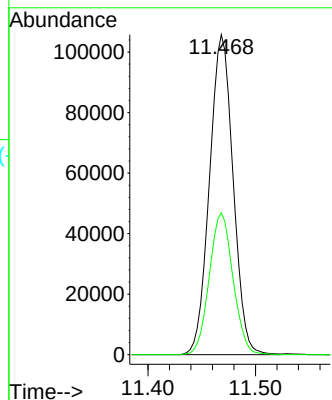
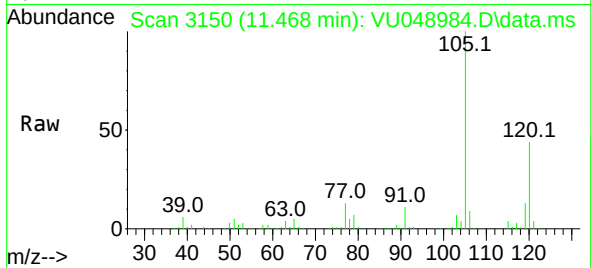




#63
1,2,4-Trimethylbenzene
Concen: 20.136 ug/L
RT: 11.468 min Scan# 3150
Delta R.T. -0.000 min
Lab File: VU048984.D
Acq: 09 Jun 2022 18:29

Instrument :
MSVOA_U
ClientSampleId :
EXYY0

Tgt Ion:105 Resp: 161197
Ion Ratio Lower Upper
105 100
120 44.5 35.4 53.2



#67
1,2-Dichlorobenzene
Concen: 1.680 ug/L
RT: 12.214 min Scan# 3382
Delta R.T. 0.003 min
Lab File: VU048984.D
Acq: 09 Jun 2022 18:29

Tgt Ion:146 Resp: 7978
Ion Ratio Lower Upper
146 100
111 41.6 34.1 51.1
148 65.1 50.9 76.3

