

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU082222\
 Data File : VU050401.D
 Acq On : 22 Aug 2022 15:33
 Operator : SY/MD
 Sample : N3734-13DL 5X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WS-UNREGULATED-VOCSDL

Quant Time: Aug 23 08:27:56 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U081922DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Aug 23 08:18:20 2022
 Response via : Initial Calibration

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

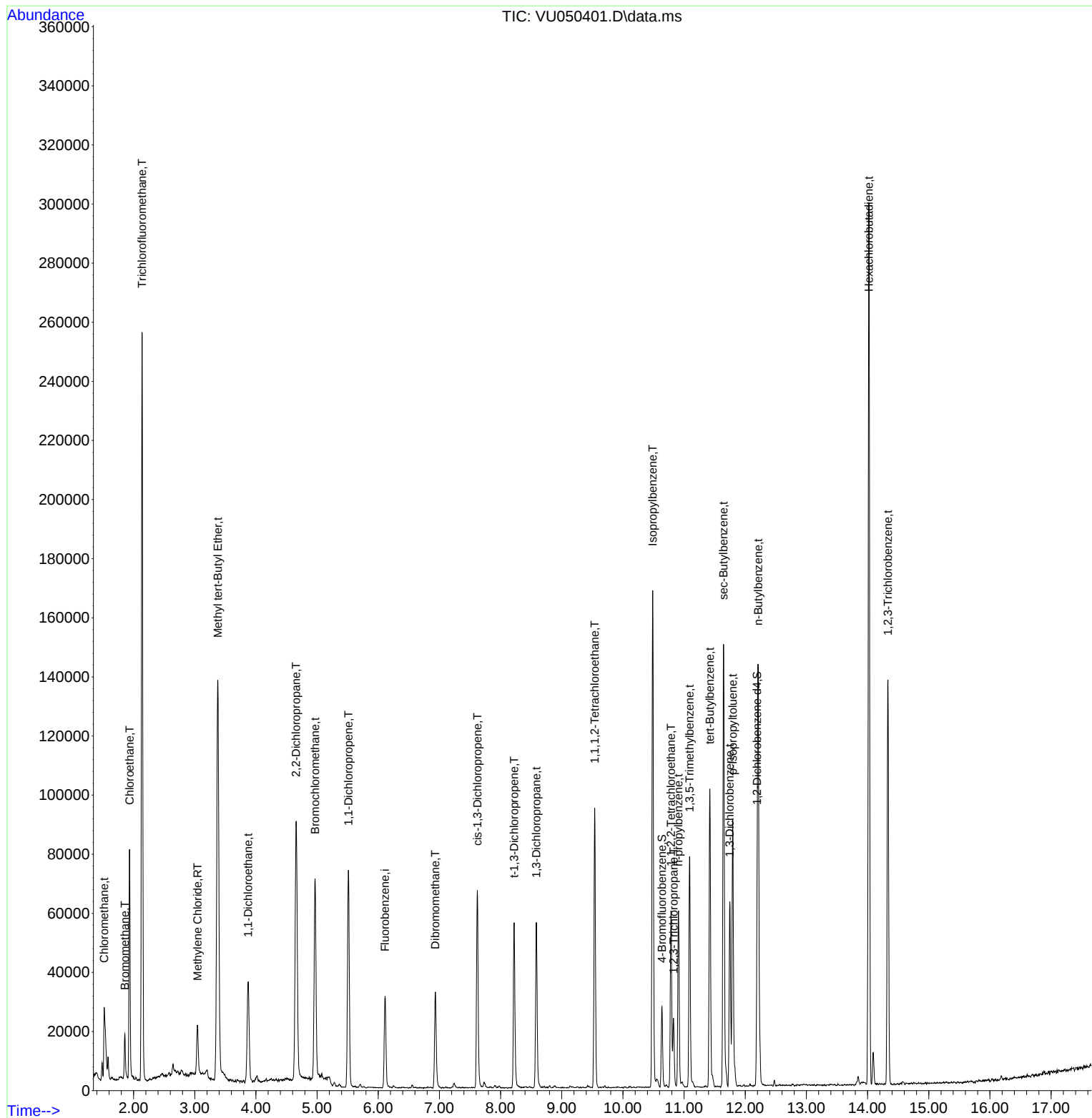
Internal Standards						
1) Fluorobenzene	6.112	96	30965	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.639	95	9475	0.899	ug/l	0.00
Spiked Amount 1.000			Recovery	=	90.000%	
68) 1,2-Dichlorobenzene-d4	12.195	152	13242	1.063	ug/l	0.00
Spiked Amount 1.000			Recovery	=	106.000%	
Target Compounds						
						Qvalue
3) Chloromethane	1.520	50	34827	2.233	ug/l	98
5) Bromomethane	1.858	94	7473	1.370	ug/l	94
6) Chloroethane	1.935	64	51869	6.433	ug/l	99
7) Trichlorofluoromethane	2.137	101	165381	9.942	ug/l	100
15) Methylene Chloride	3.044	84	7541	0.611	ug/l	95
17) 1,1-Dichloroethane	3.874	63	38973	1.985	ug/l	99
21) 2,2-Dichloropropane	4.658	77	64706	4.337	ug/l	94
25) Methyl tert-Butyl Ether	3.379	73	156655	6.467	ug/l	95
26) Bromochloromethane	4.967	128	19603	4.582	ug/l	91
29) 1,1-Dichloropropene	5.514	75	40422	3.108	ug/l	99
43) Dibromomethane	6.931	93	14005	2.532	ug/l	96
50) t-1,3-Dichloropropene	8.221	75	32371	3.185	ug/l	100
51) cis-1,3-Dichloropropene	7.620	75	42294	3.635	ug/l	94
53) 1,3-Dichloropropane	8.584	76	33821	2.642	ug/l	99
60) 1,1,1,2-Tetrachloroethane	9.539	131	24472	2.627	ug/l	97
69) Isopropylbenzene	10.488	105	103752	2.803	ug/l	98
70) 1,1,2,2-Tetrachloroethane	10.787	83	31477	2.814	ug/l	96
71) 1,2,3-Trichloropropane	10.828	75	9830	1.169	ug/l	83
73) n-propylbenzene	10.909	120	9760	1.343	ug/l	94
75) 1,3,5-Trimethylbenzene	11.089	105	42471	1.551	ug/l	98
77) tert-Butylbenzene	11.420	119	43108	1.605	ug/l	88
79) sec-Butylbenzene	11.645	105	96874	2.362	ug/l	100
81) p-Isopropyltoluene	11.796	119	48154	1.702	ug/l	99
82) 1,3-Dichlorobenzene	11.748	146	28644	1.454	ug/l	98
84) n-Butylbenzene	12.211	91	70144	2.336	ug/l	97
88) Hexachlorobutadiene	14.021	225	52606	7.315	ug/l	98
90) 1,2,3-Trichlorobenzene	14.333	180	42929	3.351	ug/l	98

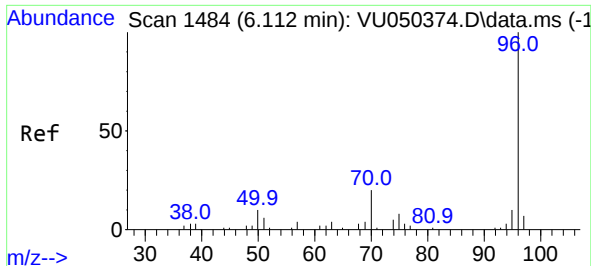
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
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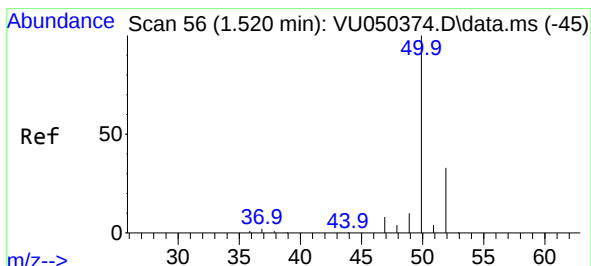
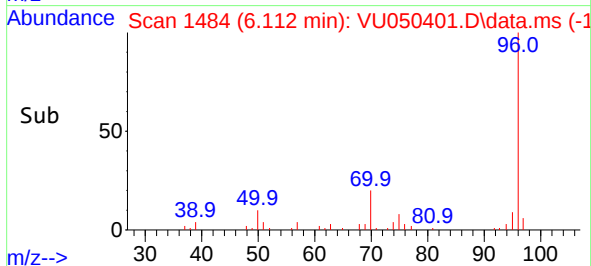
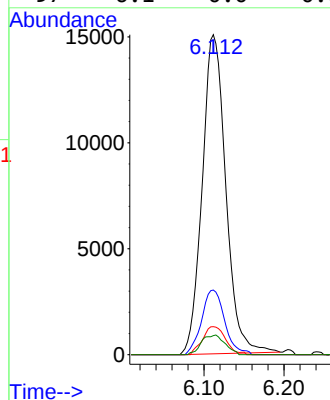
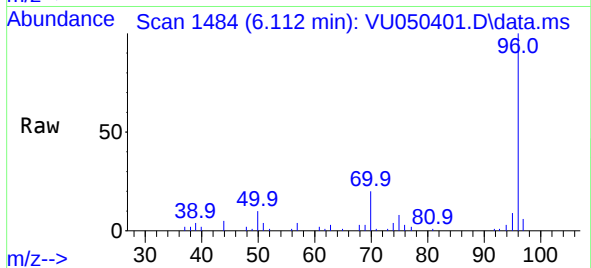




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.112 min Scan# 1484
Delta R.T. -0.003 min
Lab File: VU050401.D
Acq: 22 Aug 2022 15:33

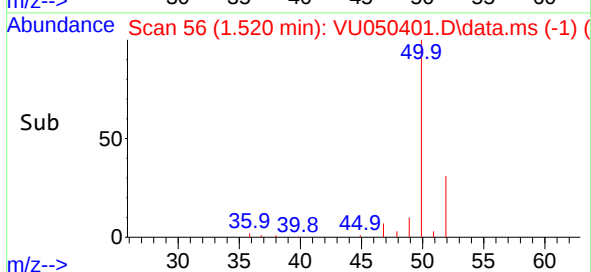
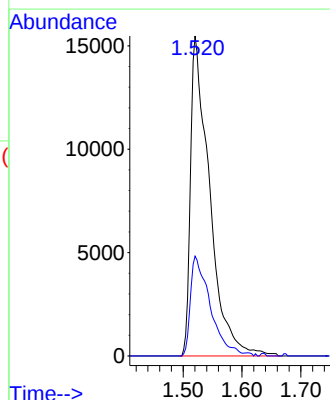
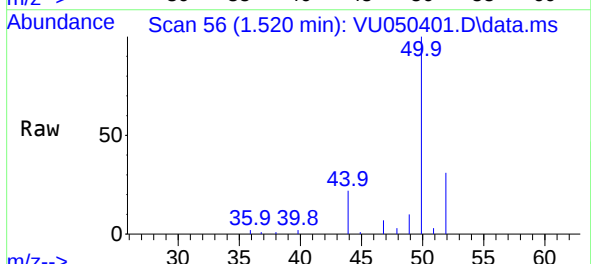
Instrument :
MSVOA_U
ClientSampleId :
WS-UNREGULATED-VOCSDL

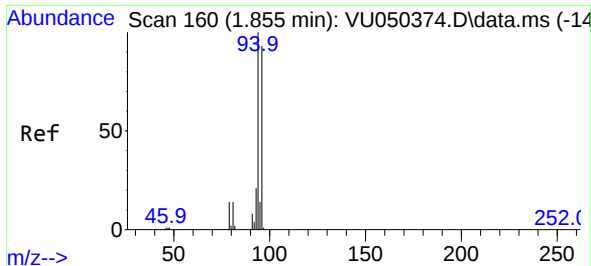
Tgt Ion:	96	Resp:	30965
Ion Ratio	Lower	Upper	
96	100		
70	19.9	16.7	25.1
95	8.6	7.4	11.0
97	6.1	0.0	0.0



#3
Chloromethane
Concen: 2.233 ug/l
RT: 1.520 min Scan# 56
Delta R.T. 0.000 min
Lab File: VU050401.D
Acq: 22 Aug 2022 15:33

Tgt Ion:	50	Resp:	34827
Ion Ratio	Lower	Upper	
50	100		
52	31.2	26.1	39.1

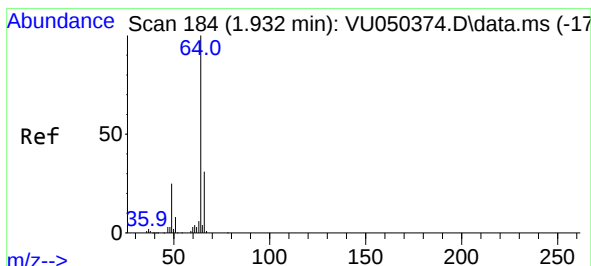
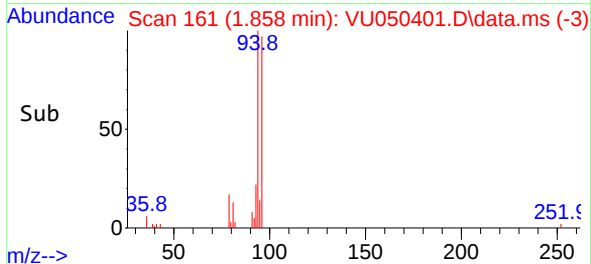
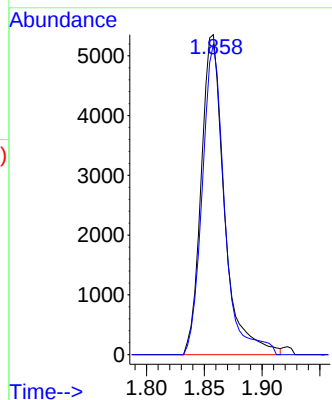
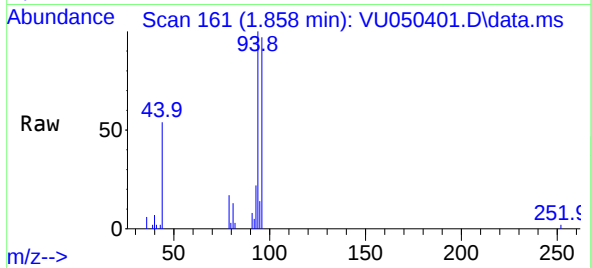




#5
Bromomethane
Concen: 1.370 ug/l
RT: 1.858 min Scan# 161
Delta R.T. 0.006 min
Lab File: VU050401.D
Acq: 22 Aug 2022 15:33

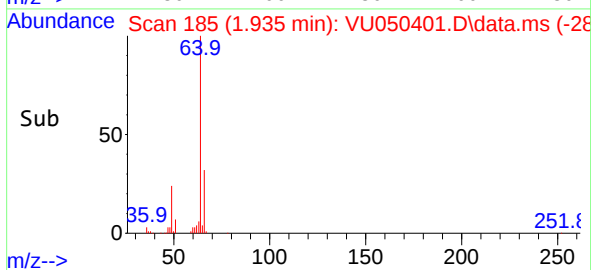
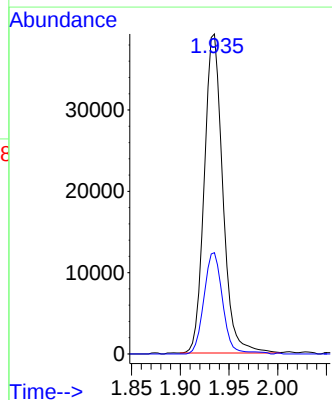
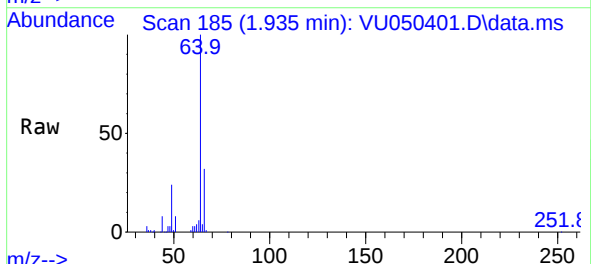
Instrument :
MSVOA_U
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WS-UNREGULATED-VOCSDL

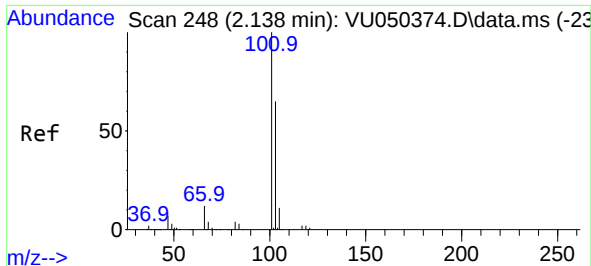
Tgt Ion: 94 Resp: 7473
Ion Ratio Lower Upper
94 100
96 96.9 73.0 109.6



#6
Chloroethane
Concen: 6.433 ug/l
RT: 1.935 min Scan# 185
Delta R.T. 0.003 min
Lab File: VU050401.D
Acq: 22 Aug 2022 15:33

Tgt Ion: 64 Resp: 51869
Ion Ratio Lower Upper
64 100
66 31.8 25.8 38.6

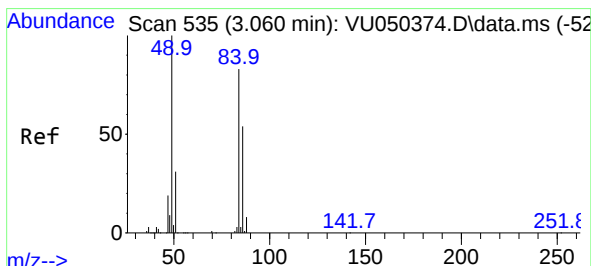
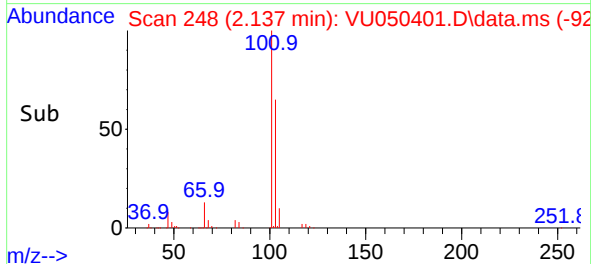
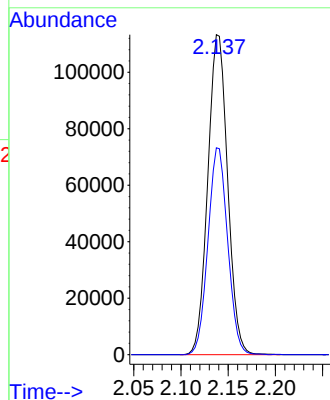
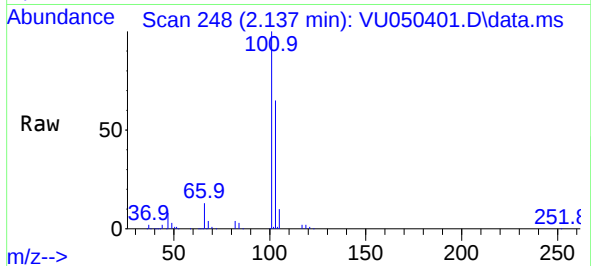




#7
Trichlorofluoromethane
Concen: 9.942 ug/l
RT: 2.137 min Scan# 24
Delta R.T. 0.000 min
Lab File: VU050401.D
Acq: 22 Aug 2022 15:33

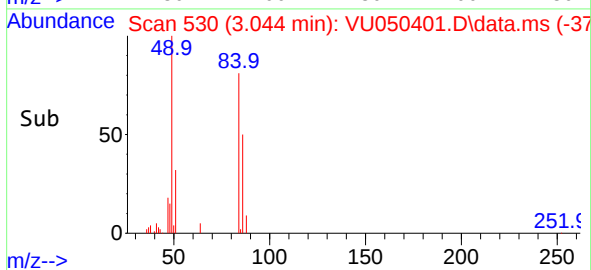
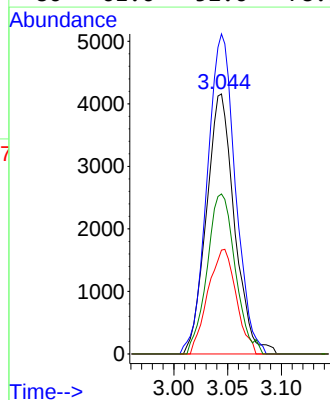
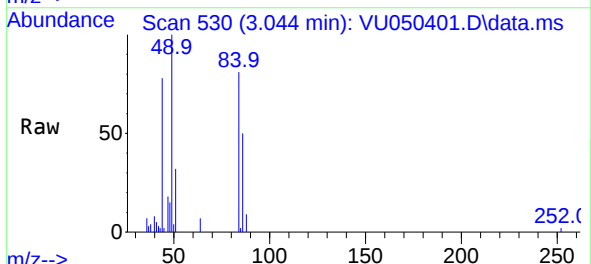
Instrument :
MSVOA_U
ClientSampleId :
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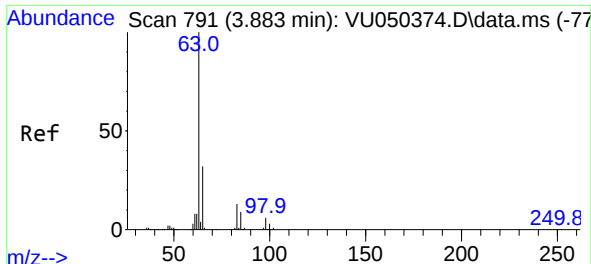
Tgt Ion:101 Resp: 165381
Ion Ratio Lower Upper
101 100
103 64.7 51.8 77.6



#15
Methylene Chloride
Concen: 0.611 ug/l
RT: 3.044 min Scan# 530
Delta R.T. 0.000 min
Lab File: VU050401.D
Acq: 22 Aug 2022 15:33

Tgt Ion: 84 Resp: 7541
Ion Ratio Lower Upper
84 100
49 123.1 104.6 157.0
51 39.9 0.0 81.4
86 61.6 52.6 78.8

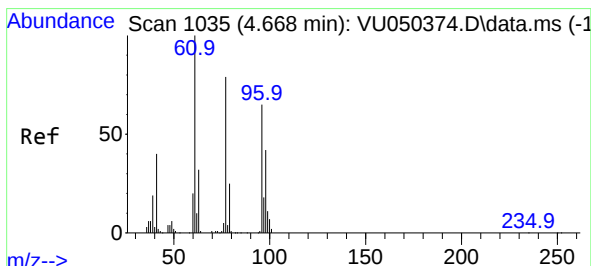
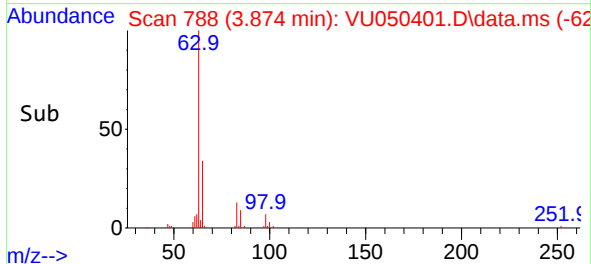
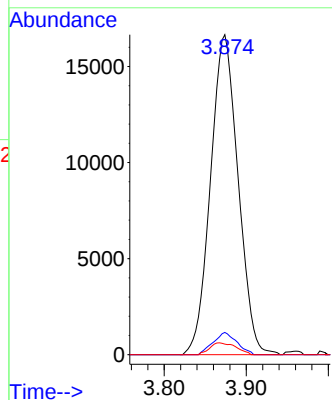
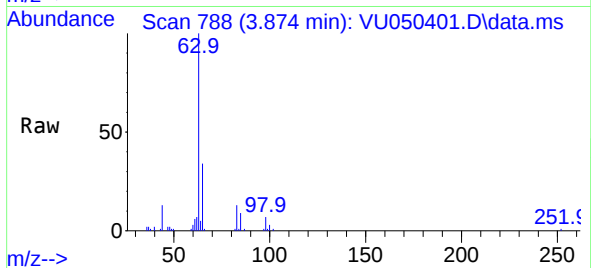




#17
1,1-Dichloroethane
Concen: 1.985 ug/l
RT: 3.874 min Scan# 791
Delta R.T. 0.010 min
Lab File: VU050401.D
Acq: 22 Aug 2022 15:33

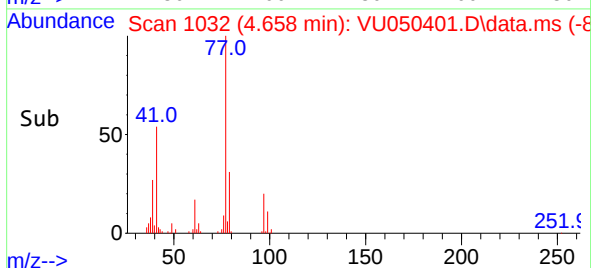
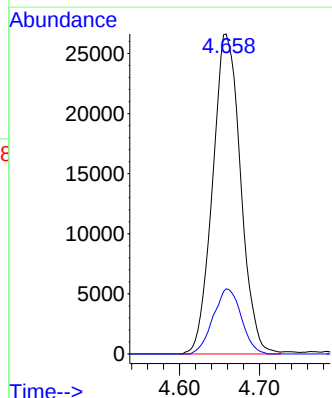
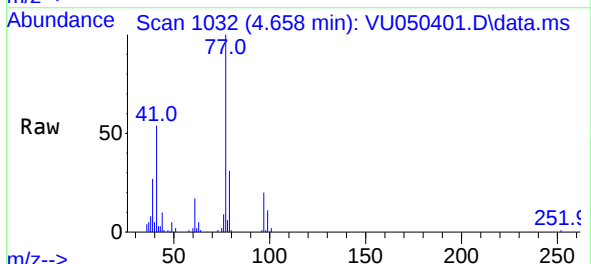
Instrument :
MSVOA_U
ClientSampleId :
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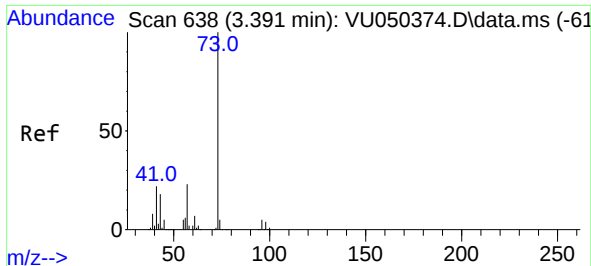
Tgt Ion: 63 Resp: 38973
Ion Ratio Lower Upper
63 100
98 7.0 3.4 10.2
100 3.3 2.0 6.0



#21
2,2-Dichloropropane
Concen: 4.337 ug/l
RT: 4.658 min Scan# 1032
Delta R.T. -0.006 min
Lab File: VU050401.D
Acq: 22 Aug 2022 15:33

Tgt Ion: 77 Resp: 64706
Ion Ratio Lower Upper
77 100
97 20.4 18.5 27.7

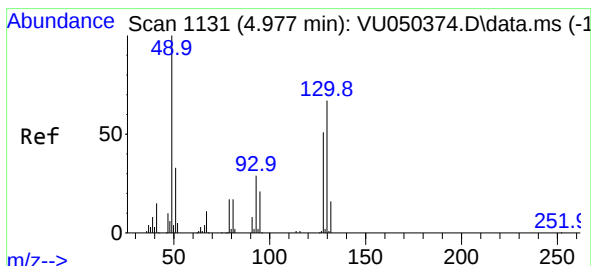
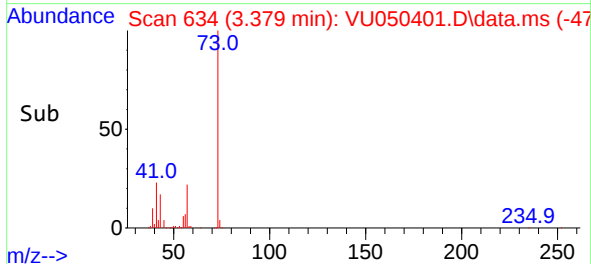
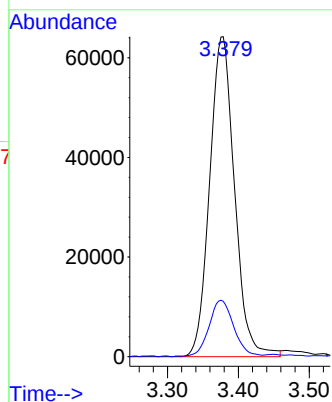
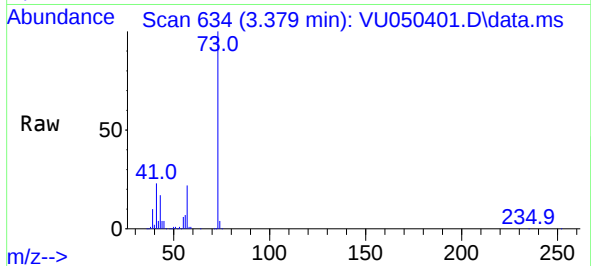




#25
Methyl tert-Butyl Ether
Concen: 6.467 ug/l
RT: 3.379 min Scan# 61
Delta R.T. 0.010 min
Lab File: VU050401.D
Acq: 22 Aug 2022 15:33

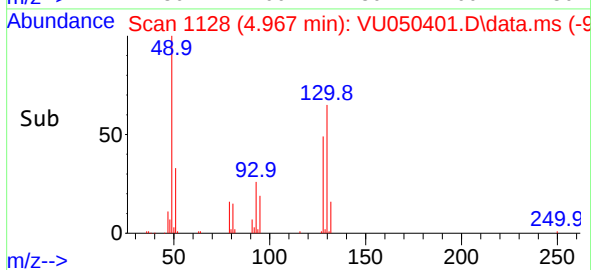
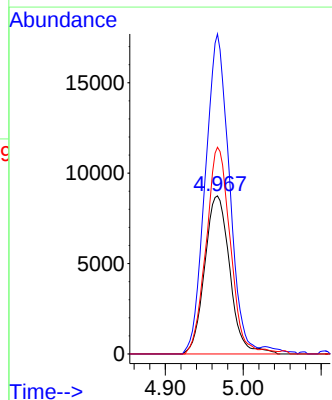
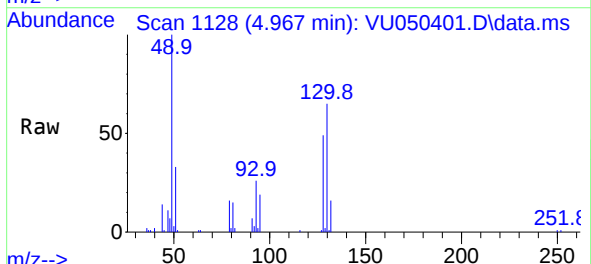
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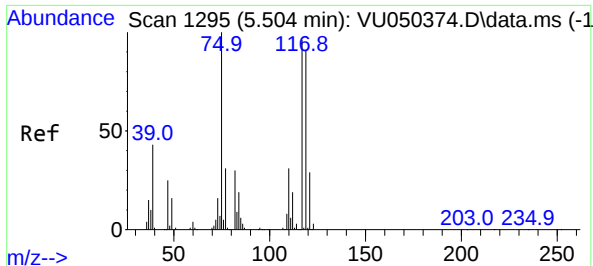
Tgt Ion: 73 Resp: 156655
Ion Ratio Lower Upper
73 100
43 17.7 15.9 23.9



#26
Bromochloromethane
Concen: 4.582 ug/l
RT: 4.967 min Scan# 1128
Delta R.T. -0.006 min
Lab File: VU050401.D
Acq: 22 Aug 2022 15:33

Tgt Ion: 128 Resp: 19603
Ion Ratio Lower Upper
128 100
49 193.1 0.0 349.2
130 124.8 103.0 154.6

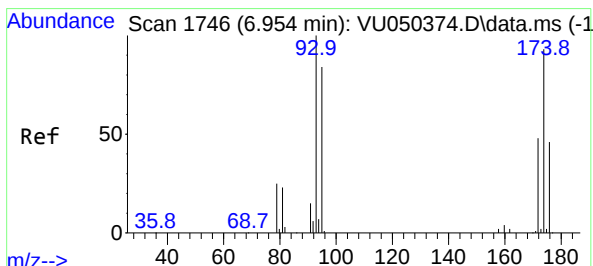
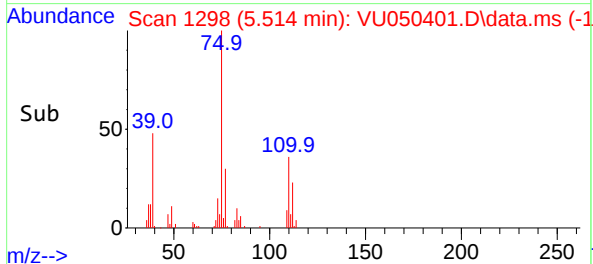
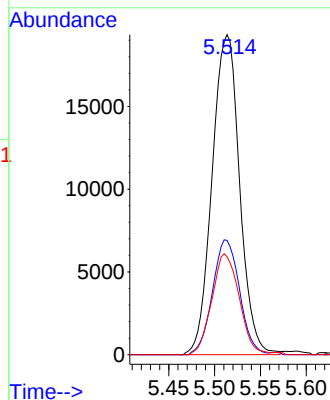
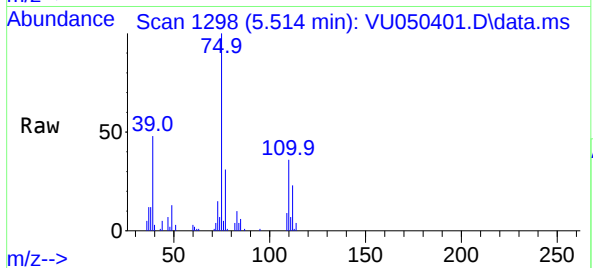




#29
1,1-Dichloropropene
Concen: 3.108 ug/l
RT: 5.514 min Scan# 11
Delta R.T. -0.010 min
Lab File: VU050401.D
Acq: 22 Aug 2022 15:33

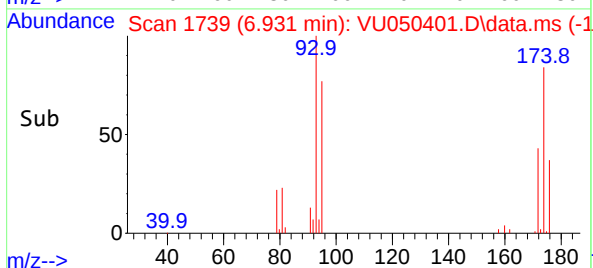
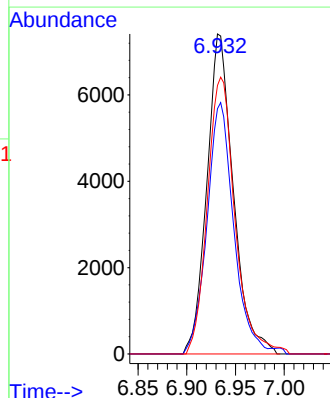
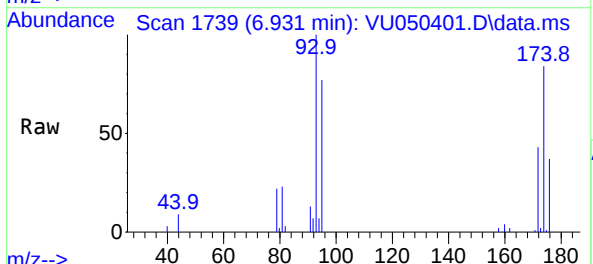
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MSVOA_U
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WS-UNREGULATED-VOCSDL

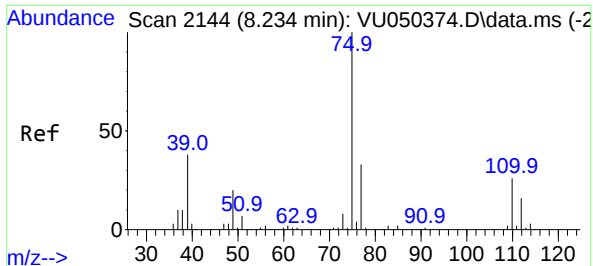
Tgt Ion:	75	Resp:	40422
Ion	Ratio	Lower	Upper
75	100		
110	35.2	17.3	52.0
77	31.3	24.6	37.0



#43
Dibromomethane
Concen: 2.532 ug/l
RT: 6.931 min Scan# 1739
Delta R.T. 0.013 min
Lab File: VU050401.D
Acq: 22 Aug 2022 15:33

Tgt Ion:	93	Resp:	14005
Ion	Ratio	Lower	Upper
93	100		
95	79.2	65.0	97.6
174	90.2	76.3	114.5





#50

t-1,3-Dichloropropene

Concen: 3.185 ug/l

RT: 8.221 min Scan# 2144

Delta R.T. 0.010 min

Lab File: VU050401.D

Acq: 22 Aug 2022 15:33

Instrument :

MSVOA_U

ClientSampleId :

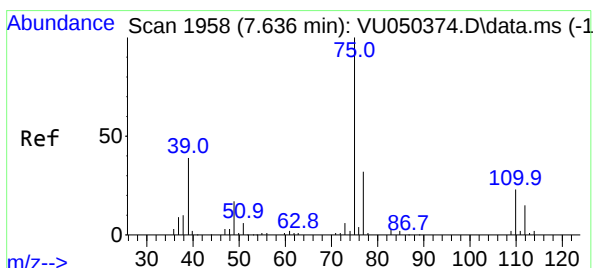
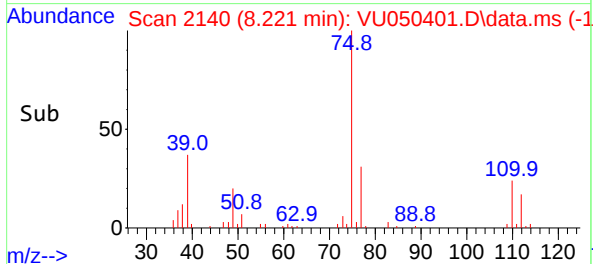
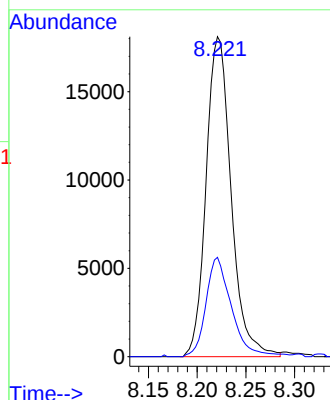
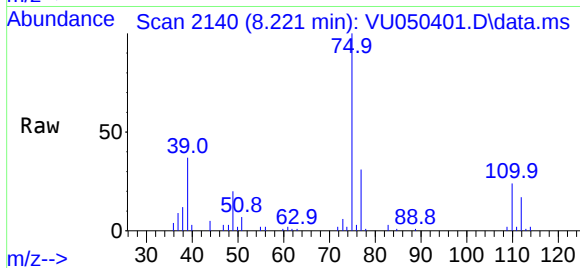
WS-UNREGULATED-VOCSDL

Tgt Ion: 75 Resp: 32371

Ion Ratio Lower Upper

75 100

77 31.0 24.7 37.1



#51

cis-1,3-Dichloropropene

Concen: 3.635 ug/l

RT: 7.620 min Scan# 1953

Delta R.T. 0.010 min

Lab File: VU050401.D

Acq: 22 Aug 2022 15:33

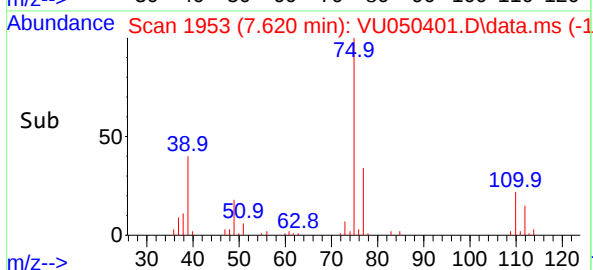
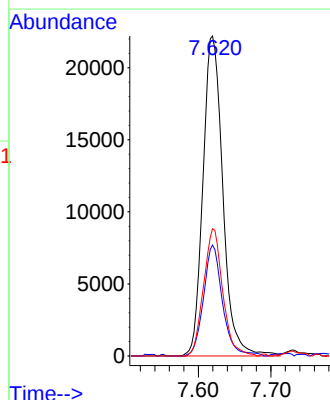
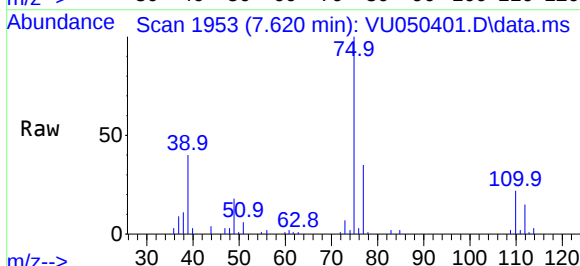
Tgt Ion: 75 Resp: 42294

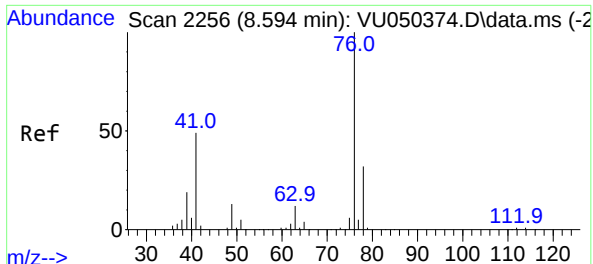
Ion Ratio Lower Upper

75 100

77 34.7 25.4 38.0

39 39.7 35.1 52.7





#53

1,3-Dichloropropane

Concen: 2.642 ug/l

RT: 8.584 min Scan# 21

Delta R.T. 0.006 min

Lab File: VU050401.D

Acq: 22 Aug 2022 15:33

Instrument :

MSVOA_U

ClientSampleId :

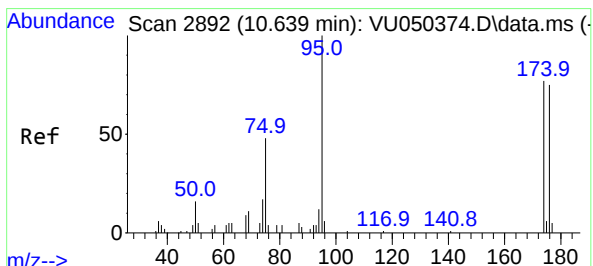
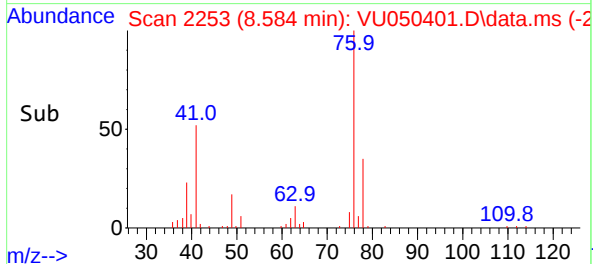
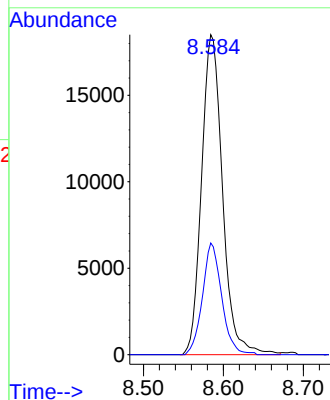
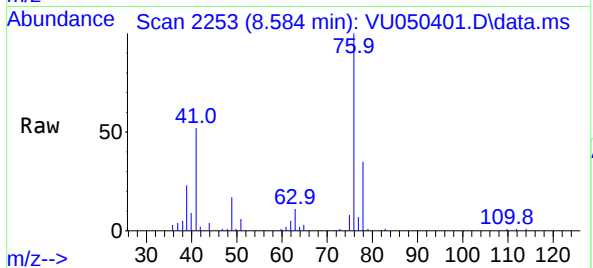
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Tgt Ion: 76 Resp: 33821

Ion Ratio Lower Upper

76 100

78 32.0 26.0 39.0



#57

4-Bromofluorobenzene

Concen: 0.899 ug/l

RT: 10.639 min Scan# 2892

Delta R.T. 0.006 min

Lab File: VU050401.D

Acq: 22 Aug 2022 15:33

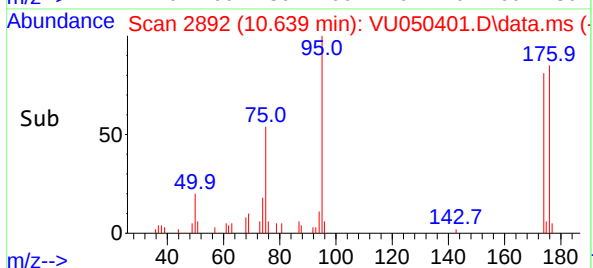
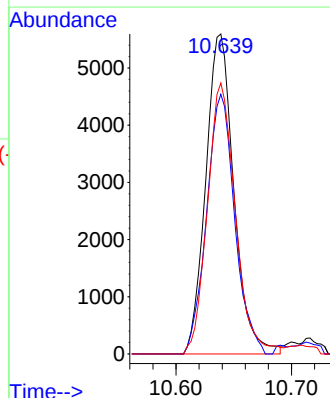
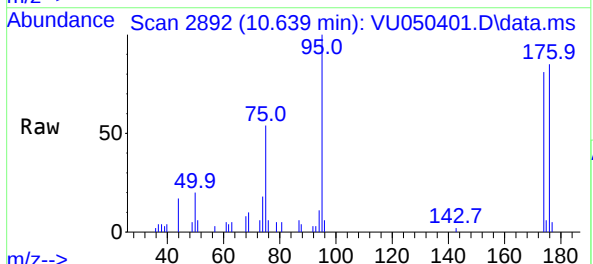
Tgt Ion: 95 Resp: 9475

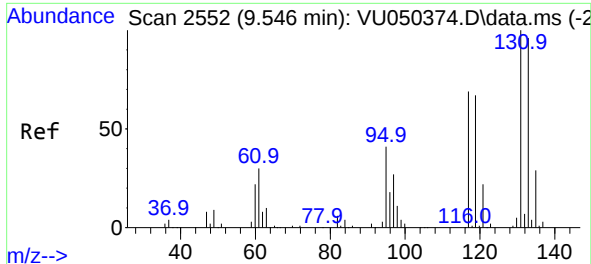
Ion Ratio Lower Upper

95 100

174 80.9 62.4 93.6

176 84.2 56.2 84.2

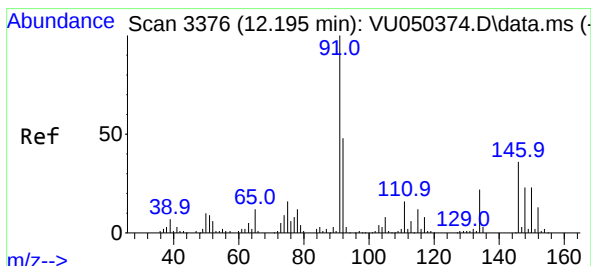
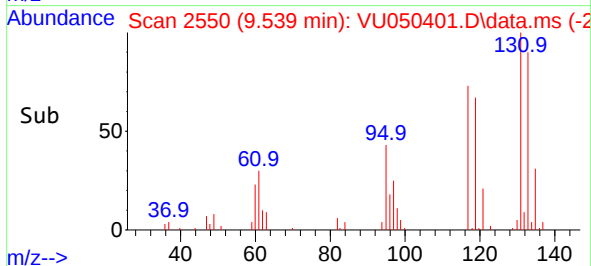
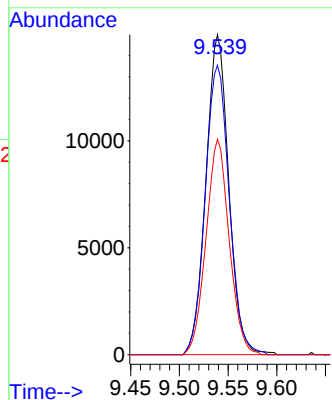
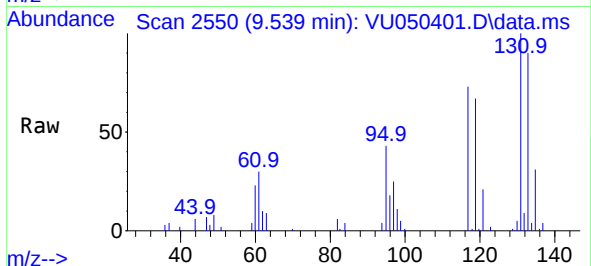




#60
1,1,1,2-Tetrachloroethane
Concen: 2.627 ug/l
RT: 9.539 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU050401.D
Acq: 22 Aug 2022 15:33

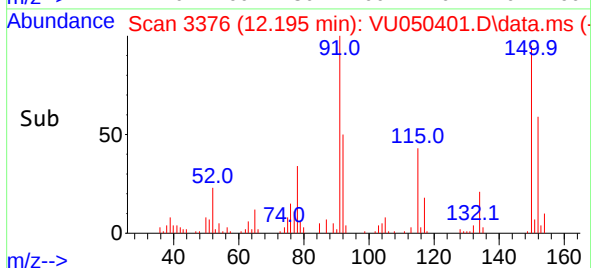
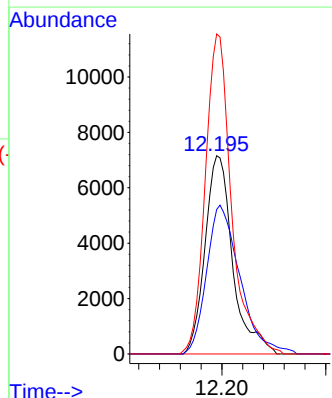
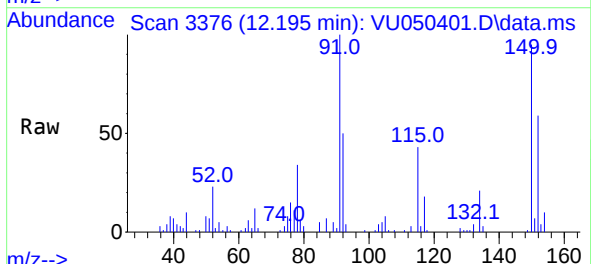
Instrument :
MSVOA_U
ClientSampleId :
WS-UNREGULATED-VOCSDL

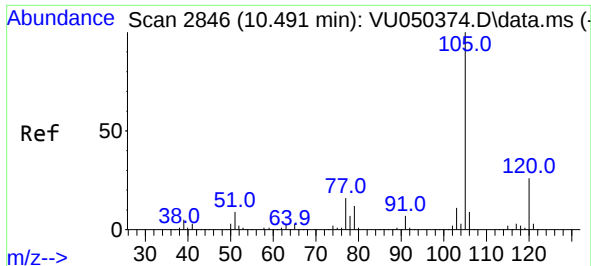
Tgt Ion:131 Resp: 24472
Ion Ratio Lower Upper
131 100
133 94.7 78.3 117.5
119 68.2 53.2 79.8



#68
1,2-Dichlorobenzene-d4
Concen: 1.063 ug/l
RT: 12.195 min Scan# 3376
Delta R.T. 0.000 min
Lab File: VU050401.D
Acq: 22 Aug 2022 15:33

Tgt Ion:152 Resp: 13242
Ion Ratio Lower Upper
152 100
115 90.3 0.0 254.6
150 153.3 0.0 623.6

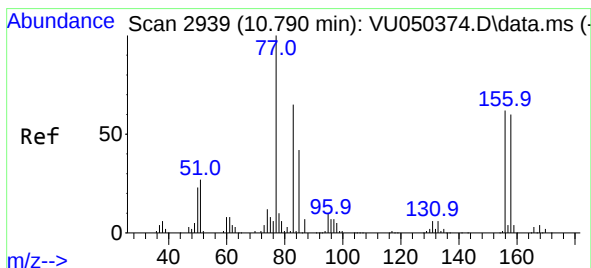
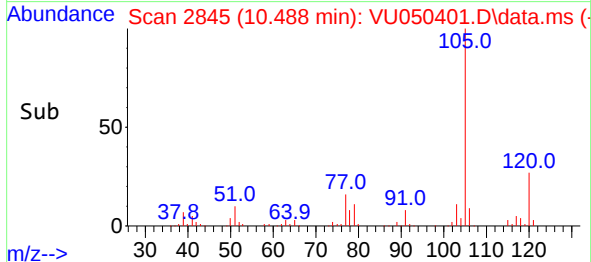
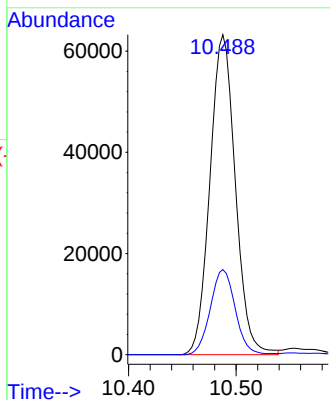
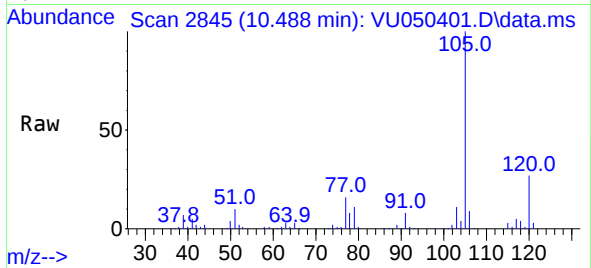




#69
Isopropylbenzene
Concen: 2.803 ug/l
RT: 10.488 min Scan# 2845
Delta R.T. 0.003 min
Lab File: VU050401.D
Acq: 22 Aug 2022 15:33

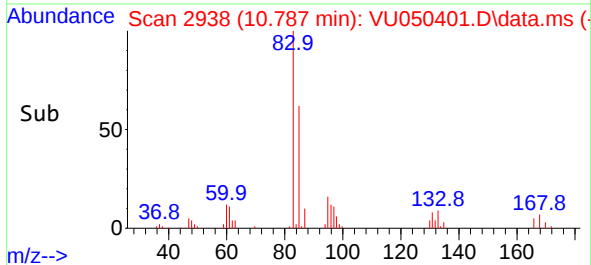
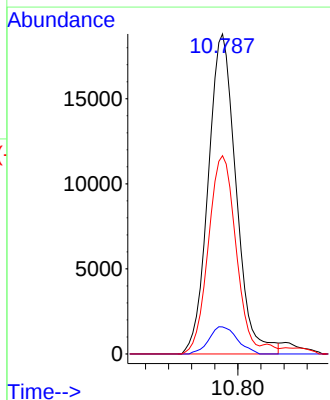
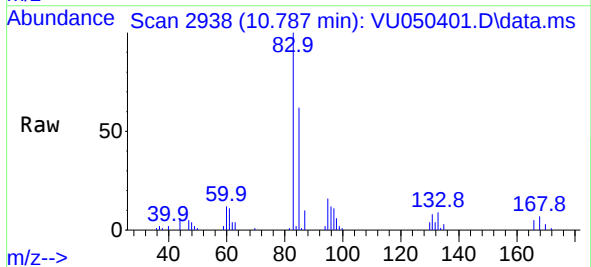
Instrument :
MSVOA_U
ClientSampleId :
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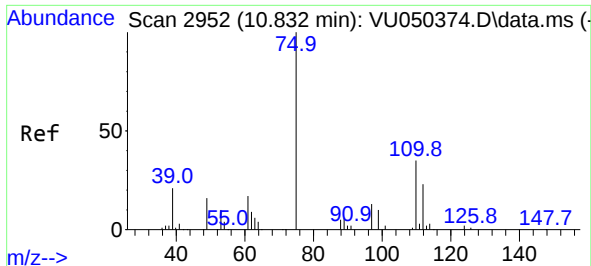
Tgt Ion:105 Resp: 103752
Ion Ratio Lower Upper
105 100
120 26.0 12.6 37.8



#70
1,1,2,2-Tetrachloroethane
Concen: 2.814 ug/l
RT: 10.787 min Scan# 2938
Delta R.T. 0.003 min
Lab File: VU050401.D
Acq: 22 Aug 2022 15:33

Tgt Ion: 83 Resp: 31477
Ion Ratio Lower Upper
83 100
131 8.6 7.7 11.5
85 61.0 51.2 76.8



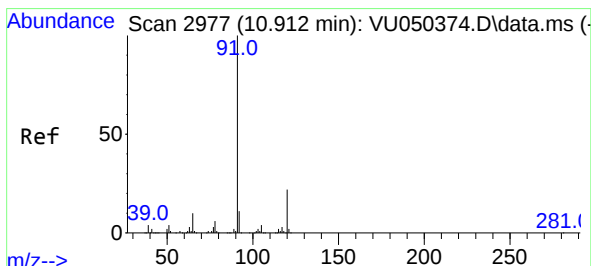
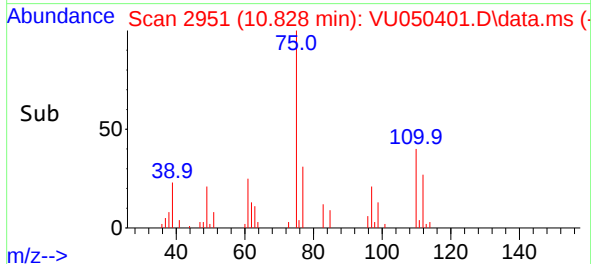
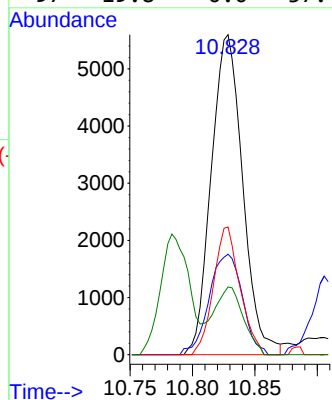
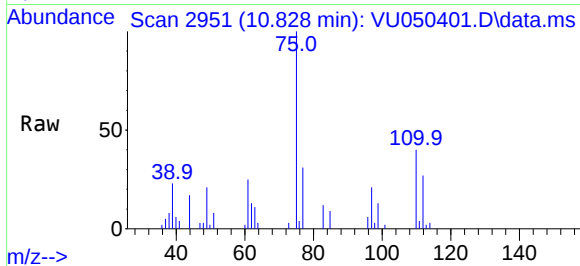


#71
1,2,3-Trichloropropane
Concen: 1.169 ug/l
RT: 10.828 min Scan# 2951
Delta R.T. 0.003 min
Lab File: VU050401.D
Acq: 22 Aug 2022 15:33

Instrument :
MSVOA_U
ClientSampleId :
WS-UNREGULATED-VOCSDL

Tgt Ion: 75 Resp: 9830

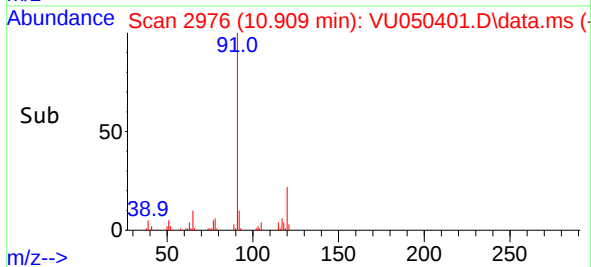
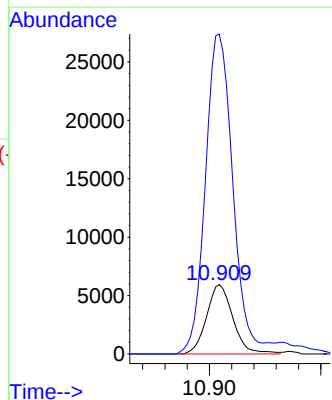
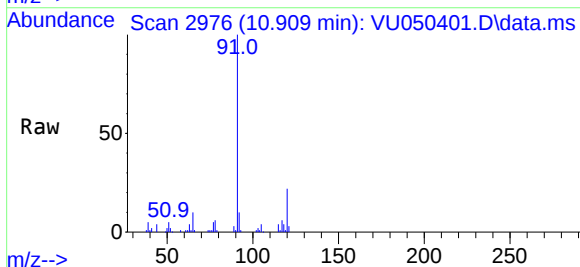
Ion	Ratio	Lower	Upper
75	100		
77	33.2	0.0	112.4
110	33.7	0.0	70.6
97	19.8	0.0	37.4

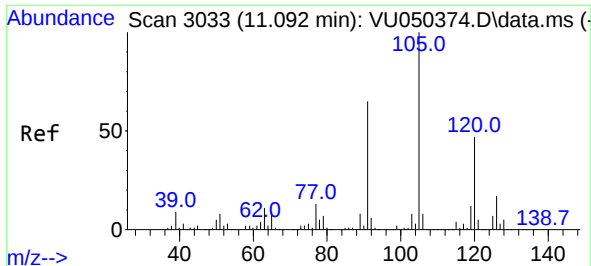


#73
n-propylbenzene
Concen: 1.343 ug/l
RT: 10.909 min Scan# 2976
Delta R.T. 0.003 min
Lab File: VU050401.D
Acq: 22 Aug 2022 15:33

Tgt Ion: 120 Resp: 9760

Ion	Ratio	Lower	Upper
120	100		
91	476.0	367.8	551.6

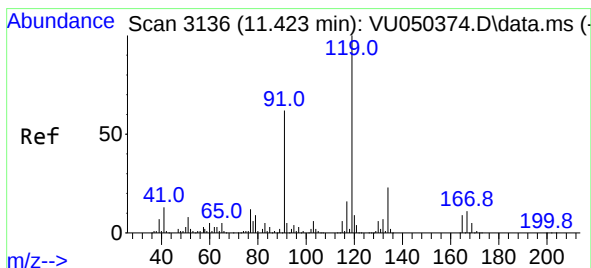
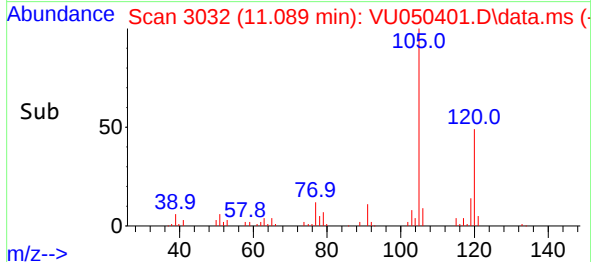
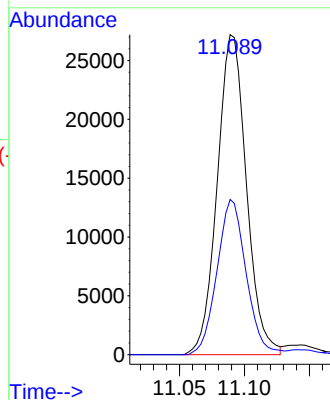
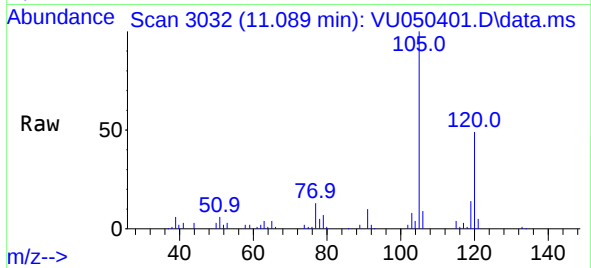




#75
1,3,5-Trimethylbenzene
Concen: 1.551 ug/l
RT: 11.089 min Scan# 3033
Delta R.T. 0.000 min
Lab File: VU050401.D
Acq: 22 Aug 2022 15:33

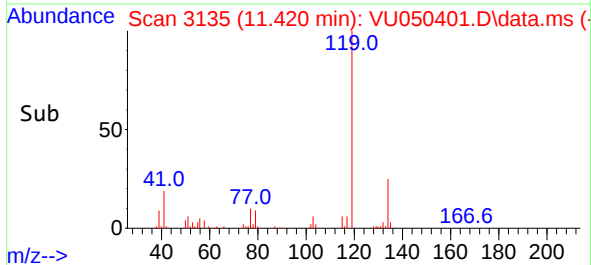
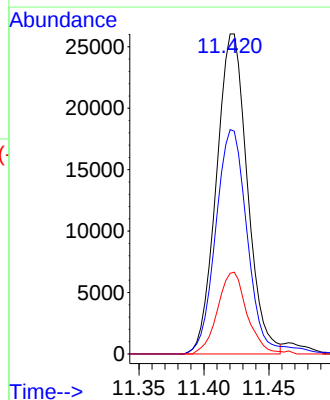
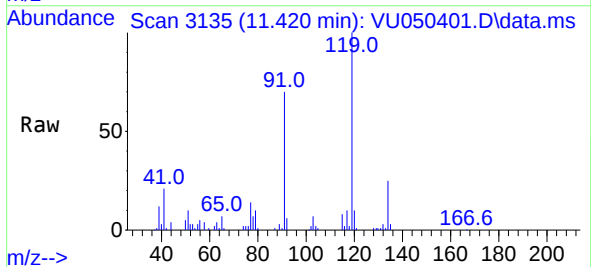
Instrument :
MSVOA_U
ClientSampleId :
WS-UNREGULATED-VOCSDL

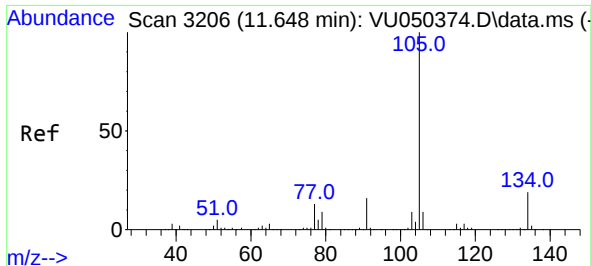
Tgt Ion:105 Resp: 42471
Ion Ratio Lower Upper
105 100
120 48.3 37.6 56.4



#77
tert-Butylbenzene
Concen: 1.605 ug/l
RT: 11.420 min Scan# 3135
Delta R.T. 0.000 min
Lab File: VU050401.D
Acq: 22 Aug 2022 15:33

Tgt Ion:119 Resp: 43108
Ion Ratio Lower Upper
119 100
91 72.4 30.4 91.3
134 24.5 17.8 26.6

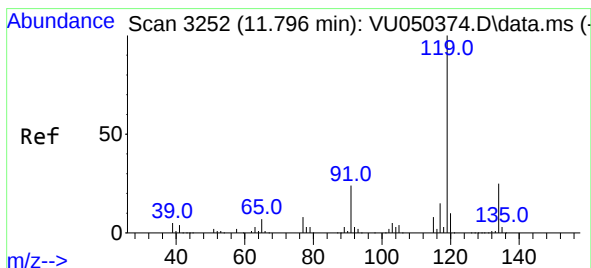
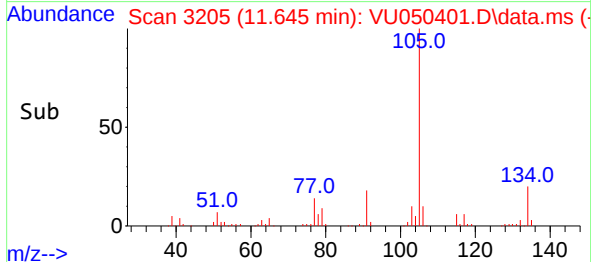
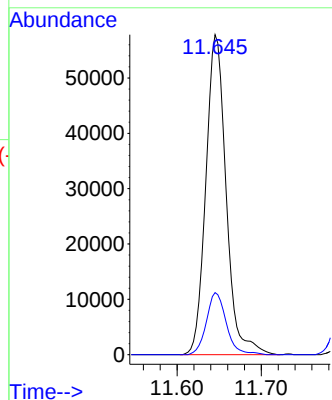
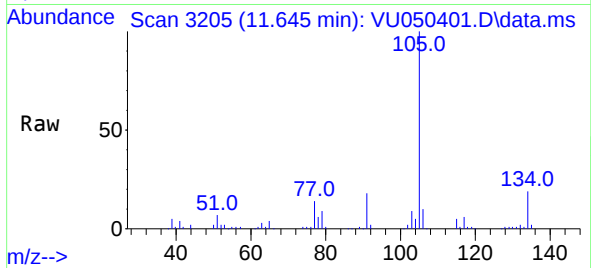




#79
 sec-Butylbenzene
 Concen: 2.362 ug/l
 RT: 11.645 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: VU050401.D
 Acq: 22 Aug 2022 15:33

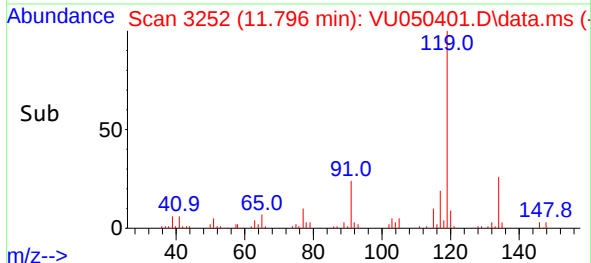
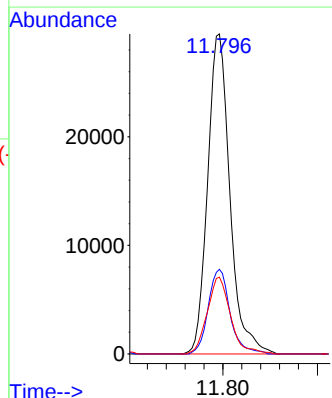
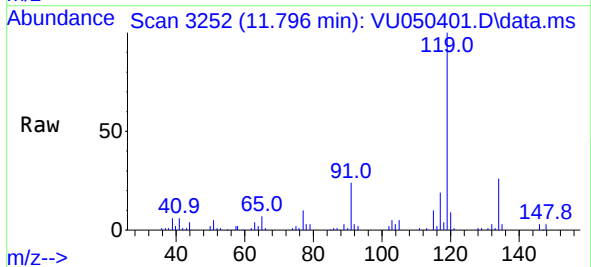
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 MSVOA_U
 ClientSampleId :
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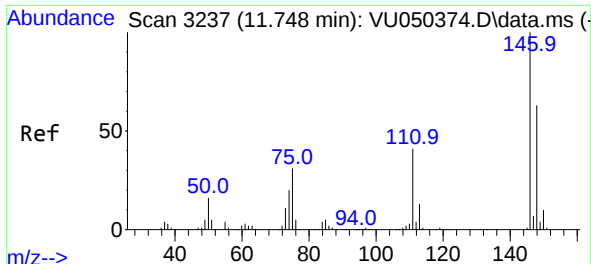
Tgt Ion:105 Resp: 96874
 Ion Ratio Lower Upper
 105 100
 134 19.1 15.4 23.0



#81
 p-Isopropyltoluene
 Concen: 1.702 ug/l
 RT: 11.796 min Scan# 3252
 Delta R.T. 0.003 min
 Lab File: VU050401.D
 Acq: 22 Aug 2022 15:33

Tgt Ion:119 Resp: 48154
 Ion Ratio Lower Upper
 119 100
 134 26.0 20.5 30.7
 91 25.0 19.8 29.6

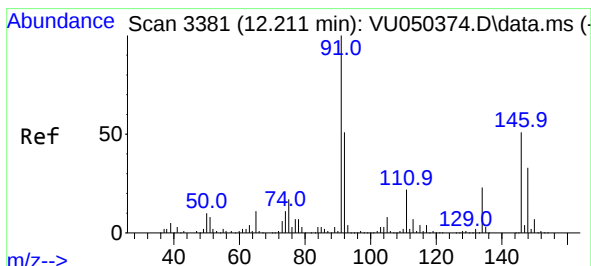
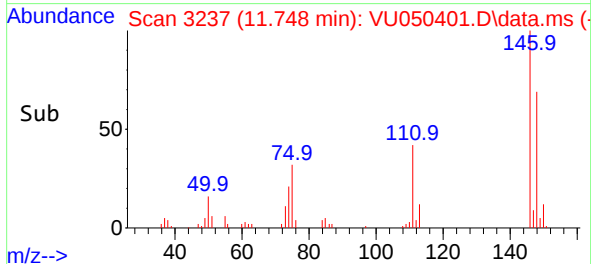
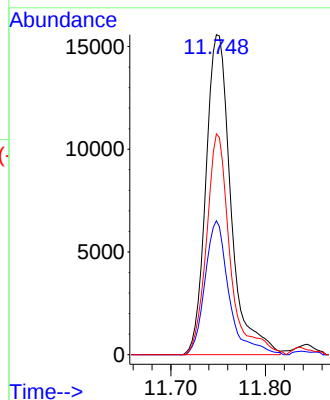
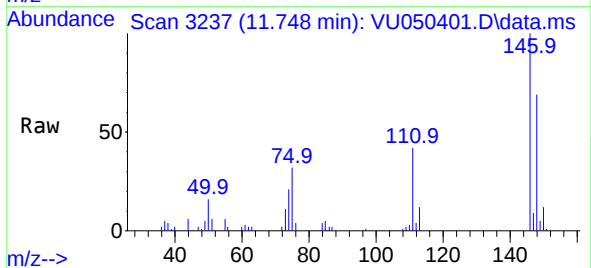




#82
1,3-Dichlorobenzene
Concen: 1.454 ug/l
RT: 11.748 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU050401.D
Acq: 22 Aug 2022 15:33

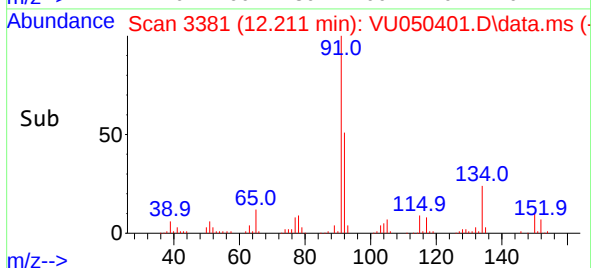
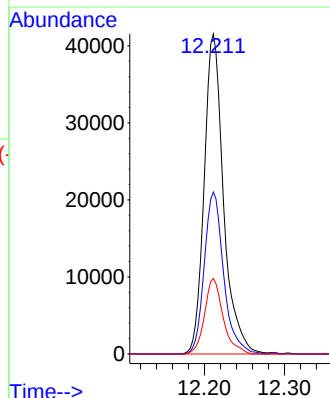
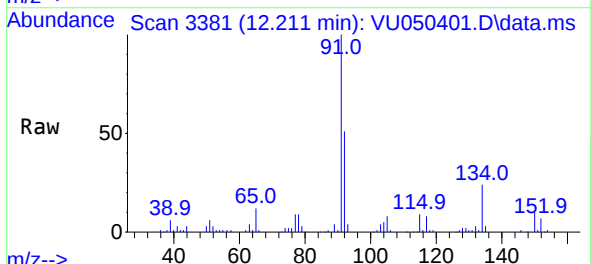
Instrument :
MSVOA_U
ClientSampleId :
WS-UNREGULATED-VOCSDL

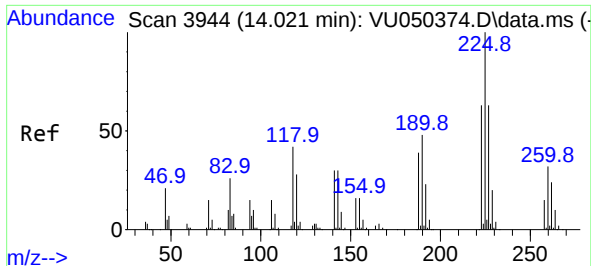
Tgt Ion:	146	Resp:	28644
Ion	Ratio	Lower	Upper
146	100		
111	40.4	33.4	50.2
148	65.0	51.2	76.8



#84
n-Butylbenzene
Concen: 2.336 ug/l
RT: 12.211 min Scan# 3381
Delta R.T. 0.000 min
Lab File: VU050401.D
Acq: 22 Aug 2022 15:33

Tgt Ion:	91	Resp:	70144
Ion	Ratio	Lower	Upper
91	100		
92	50.7	42.3	63.5
134	22.6	19.6	29.4

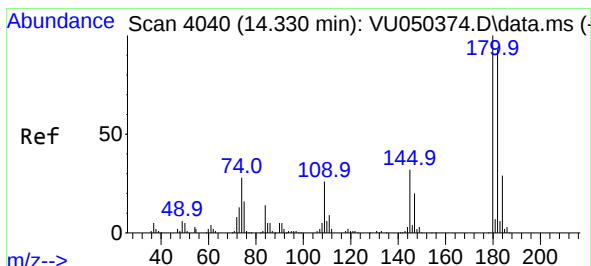
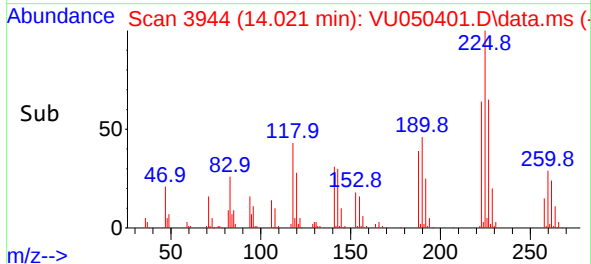
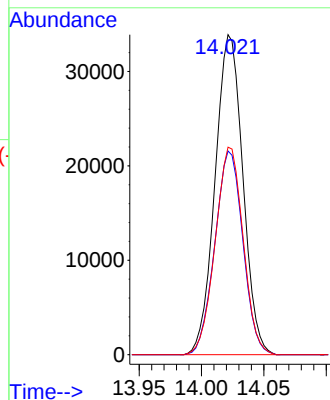
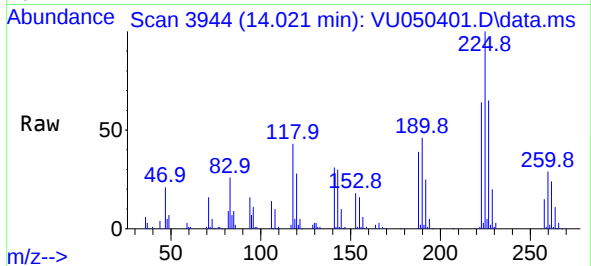




#88
Hexachlorobutadiene
Concen: 7.315 ug/l
RT: 14.021 min Scan# 3944
Delta R.T. 0.000 min
Lab File: VU050401.D
Acq: 22 Aug 2022 15:33

Instrument :
MSVOA_U
ClientSampleId :
WS-UNREGULATED-VOCSDL

Tgt Ion:225 Resp: 52606
Ion Ratio Lower Upper
225 100
223 64.0 50.6 76.0
227 65.1 50.7 76.1



#90
1,2,3-Trichlorobenzene
Concen: 3.351 ug/l
RT: 14.333 min Scan# 4041
Delta R.T. 0.003 min
Lab File: VU050401.D
Acq: 22 Aug 2022 15:33

Tgt Ion:180 Resp: 42929
Ion Ratio Lower Upper
180 100
182 97.9 76.6 114.8
145 32.6 27.3 40.9

