

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU051721\
 Data File : VU043789.D
 Acq On : 17 May 2021 13:48
 Operator : SY/MD
 Sample : M2396-01
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 18 03:11:30 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR051521WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat May 15 00:49:19 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.256	114	248575	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.423	117	239746	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.819	152	121696	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	80880	4.41	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.20%
7) Chloroethane-d5	1.919	69	58344	4.56	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.20%
11) 1,1-Dichloroethene-d2	2.572	65	35319	4.65	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	93.00%
20) 2-Butanone-d5	4.649	46	158015	45.34	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	90.68%
24) Chloroform-d	5.073	84	138412	4.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.80%
26) 1,2-Dichloroethane-d4	5.710	65	72177	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.60%
32) Benzene-d6	5.735	84	301370	4.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.00%
36) 1,2-Dichloropropane-d6	6.700	67	93002	4.79	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.80%
41) Toluene-d8	7.906	98	278335	4.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.00%
43) trans-1,3-Dichloroprop...	8.185	79	35499	4.93	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	98.60%
46) 2-Hexanone-d5	8.642	63	163139	50.28	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.56%
56) 1,1,2,2-Tetrachloroeth...	10.764	84	74659	4.69	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.80%
66) 1,2-Dichlorobenzene-d4	12.201	152	98737	4.87	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.40%
Target Compounds						
					Qvalue	
3) Chloromethane	1.523	50	2751	0.13	ug/L	99
6) Bromomethane	1.864	94	21947	1.76	ug/L	98
12) 1,1-Dichloroethene	2.588	96	35992	2.19	ug/L #	75
13) Acetone	2.652	43	112590	50.89	ug/L	66
14) Carbon disulfide	2.800	76	414718	7.56	ug/L	100
15) Methyl Acetate	2.964	43	285913	43.42	ug/L	96
16) Methylene chloride	3.054	84	141124	5.80	ug/L	97
17) Methyl tert-butyl Ether	3.372	73	481218	12.96	ug/L	98
21) 2-Butanone	4.726	43	105648	24.97	ug/L	100
22) cis-1,2-Dichloroethene	4.678	96	126025	6.96	ug/L	98
25) Chloroform	5.096	83	10693	0.35	ug/L	92
27) 1,2-Dichloroethane	5.803	62	111319	5.86	ug/L	99
30) Cyclohexane	5.398	56	303486	10.94	ug/L	98
33) Benzene	5.784	78	396322	5.72	ug/L	100
34) Trichloroethene	6.549	95	67636	3.80	ug/L	96
35) Methylcyclohexane	6.771	83	555411	20.08	ug/L	97
37) 1,2-Dichloropropane	6.768	63	5037	0.28	ug/L #	88
40) 4-Methyl-2-pentanone	7.800	43	345568	29.87	ug/L	98
42) Toluene	7.976	91	1312611	18.02	ug/L	100

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

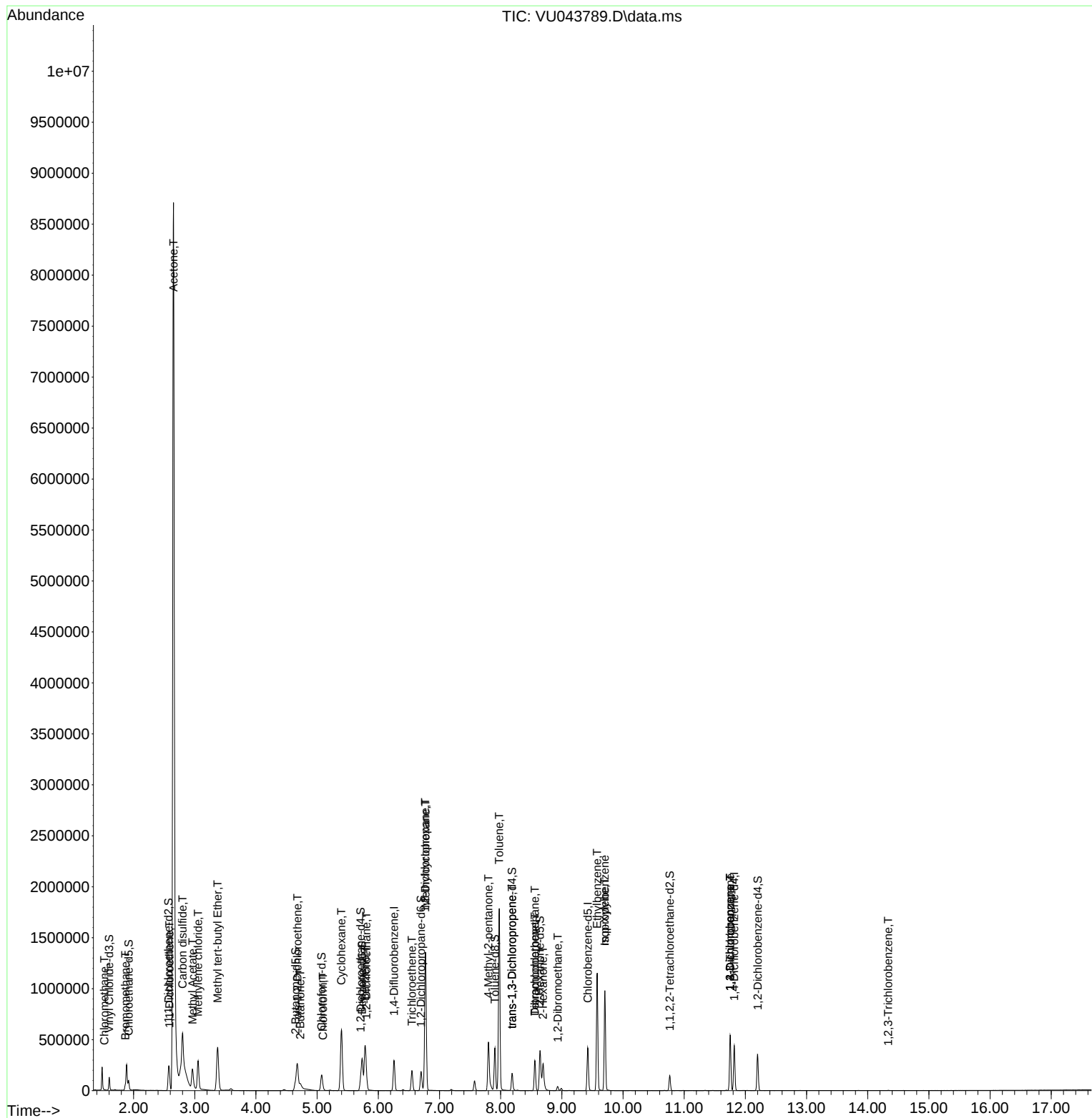
44) trans-1,3-Dichloropropene	8.185	75	3735	0.18	ug/L	87
47) Tetrachloroethene	8.558	164	69926	4.86	ug/L	98
48) 2-Hexanone	8.693	43	179873	20.96	ug/L	98
49) Dibromochloromethane	8.558	129	64515	4.44	ug/L #	11
50) 1,2-Dibromoethane	8.931	107	28109	2.29	ug/L	99
52) Ethylbenzene	9.578	91	805086	10.80	ug/L	99
53) m,p-Xylene	9.703	106	273471	9.64	ug/L	98
60) Isopropylbenzene	9.703	105	134148	2.01	ug/L #	33
61) 1,2,3-Trichloropropane	11.751	75	65181	5.61	ug/L #	51
64) 1,3-Dichlorobenzene	11.751	146	233826	6.80	ug/L	99
65) 1,4-Dichlorobenzene	11.751	146	233826	6.76	ug/L	99
72) 1,2,3-Trichlorobenzene	14.333	180	976	0.05	ug/L #	85

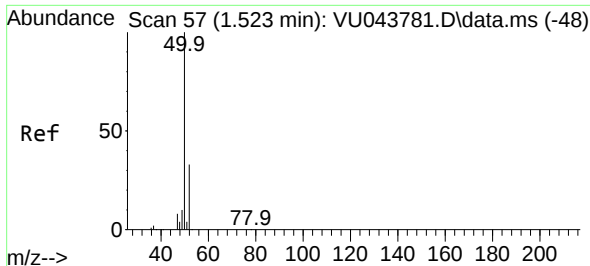
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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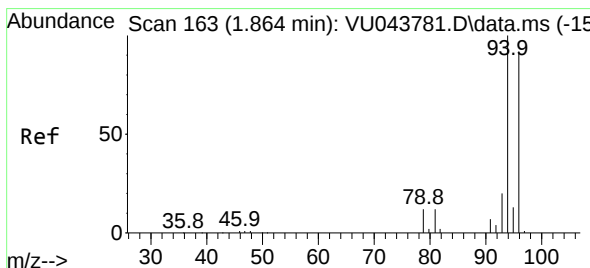
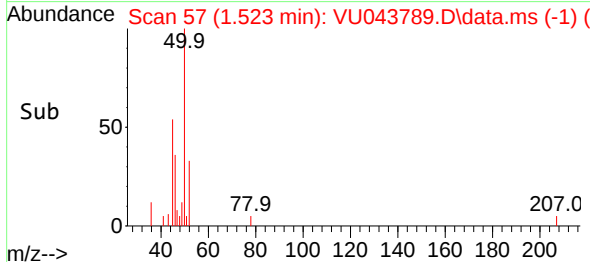
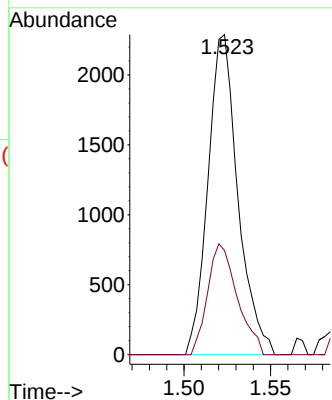
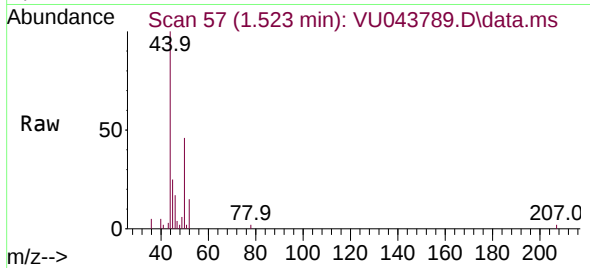




#3
Chloromethane
Concen: 0.13 ug/L
RT: 1.523 min Scan# 57
Delta R.T. -0.000 min
Lab File: VU043789.D
Acq: 17 May 2021 13:48

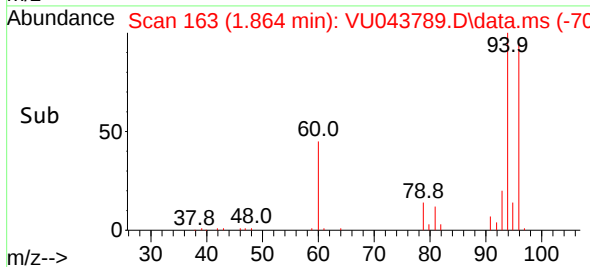
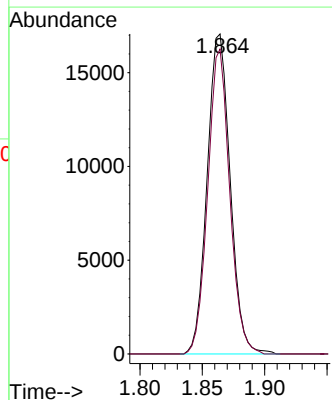
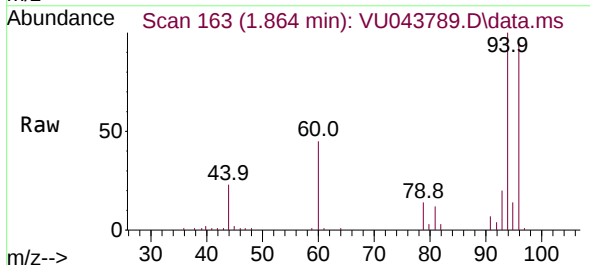
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MSVOA_U
ClientSampled :

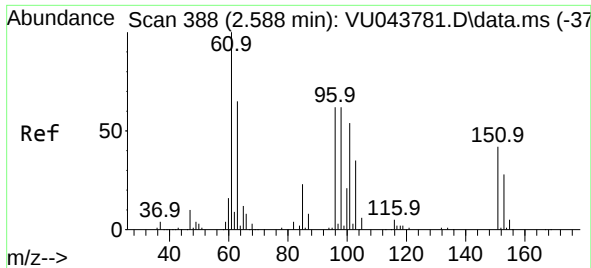
Tgt Ion: 50 Resp: 2751
Ion Ratio Lower Upper
50 100
52 32.6 23.2 43.2



#6
Bromomethane
Concen: 1.76 ug/L
RT: 1.864 min Scan# 163
Delta R.T. -0.000 min
Lab File: VU043789.D
Acq: 17 May 2021 13:48

Tgt Ion: 94 Resp: 21947
Ion Ratio Lower Upper
94 100
96 95.3 65.0 120.8

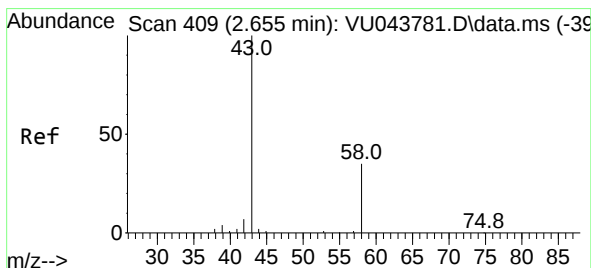
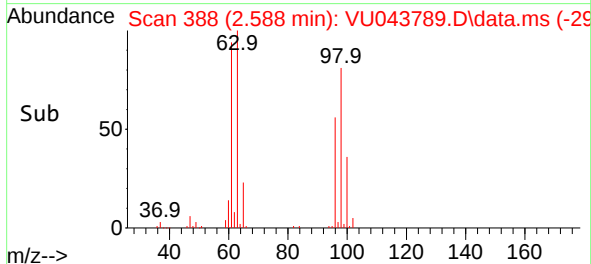
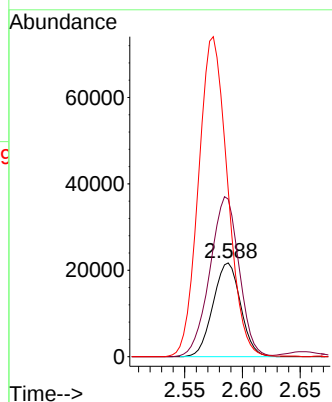
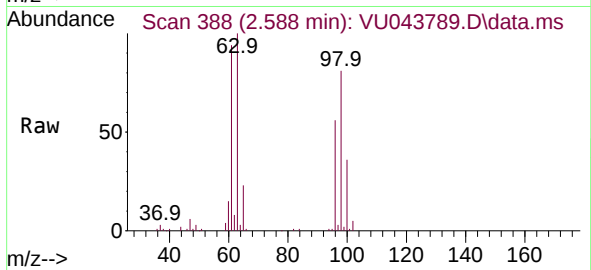




#12
1,1-Dichloroethene
Concen: 2.19 ug/L
RT: 2.588 min Scan# 388
Delta R.T. -0.000 min
Lab File: VU043789.D
Acq: 17 May 2021 13:48

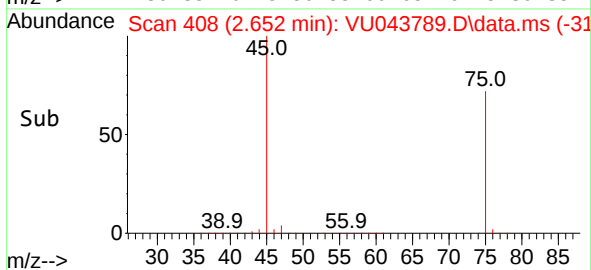
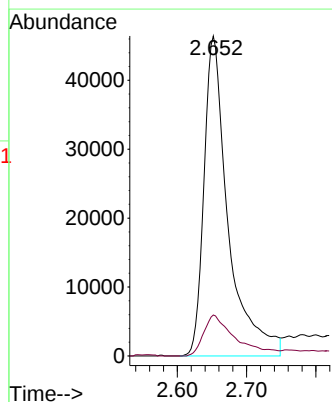
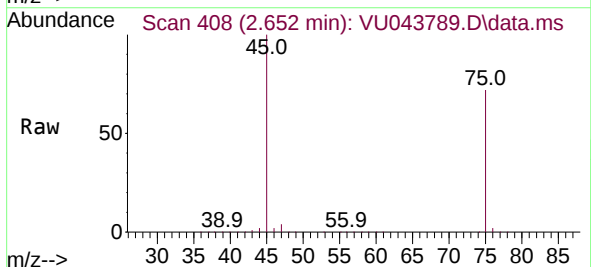
Instrument :
MSVOA_U
ClientSampled :

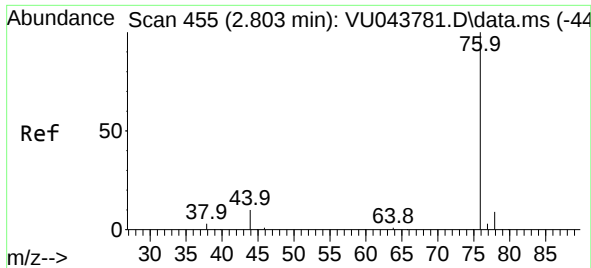
Tgt Ion: 96 Resp: 35992
Ion Ratio Lower Upper
96 100
61 168.0 117.5 218.1
63 178.2 77.3 143.7#



#13
Acetone
Concen: 50.89 ug/L
RT: 2.652 min Scan# 408
Delta R.T. -0.000 min
Lab File: VU043789.D
Acq: 17 May 2021 13:48

Tgt Ion: 43 Resp: 112590
Ion Ratio Lower Upper
43 100
58 16.0 0.0 71.6

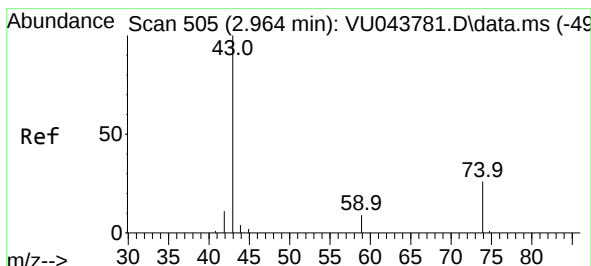
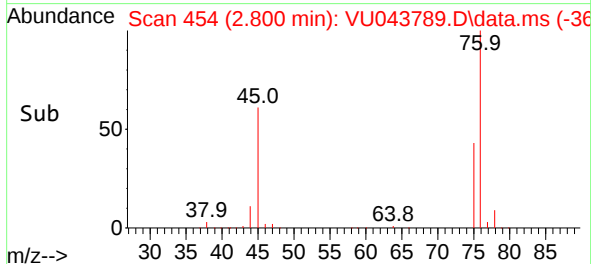
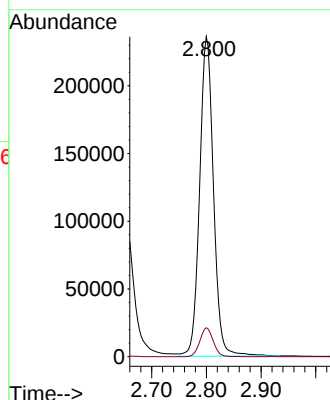
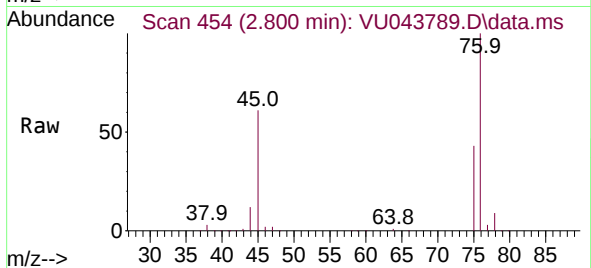




#14
Carbon disulfide
Concen: 7.56 ug/L
RT: 2.800 min Scan# 454
Delta R.T. -0.000 min
Lab File: VU043789.D
Acq: 17 May 2021 13:48

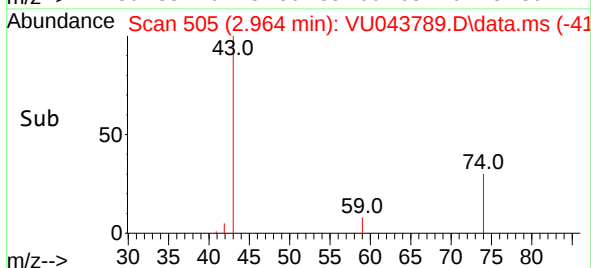
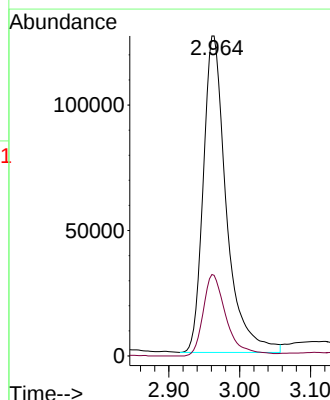
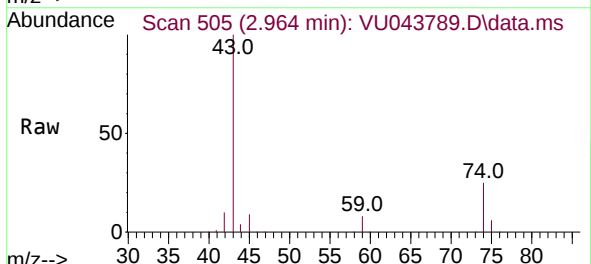
Instrument :
MSVOA_U
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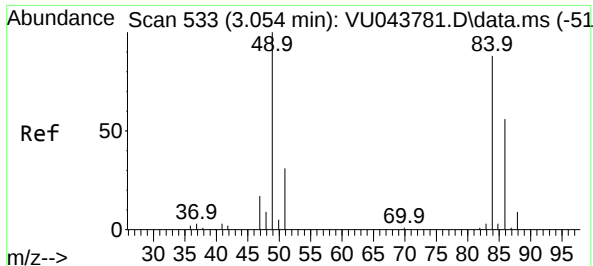
Tgt Ion: 76 Resp: 414718
Ion Ratio Lower Upper
76 100
78 9.1 7.2 10.8



#15
Methyl Acetate
Concen: 43.42 ug/L
RT: 2.964 min Scan# 505
Delta R.T. -0.000 min
Lab File: VU043789.D
Acq: 17 May 2021 13:48

Tgt Ion: 43 Resp: 285913
Ion Ratio Lower Upper
43 100
74 25.9 19.3 28.9

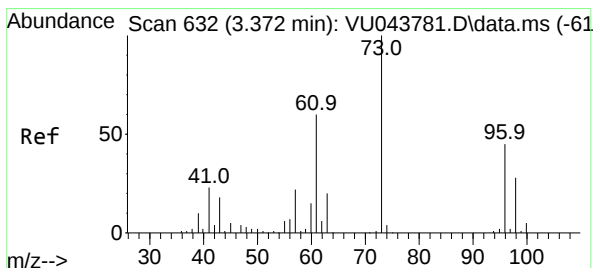
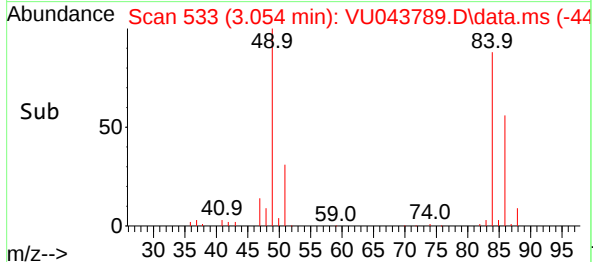
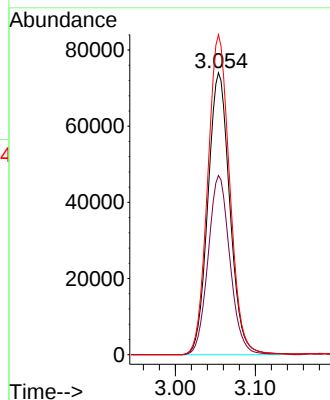
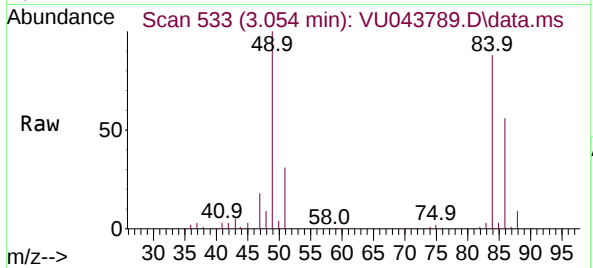




#16
Methylene chloride
Concen: 5.80 ug/L
RT: 3.054 min Scan# 533
Delta R.T. -0.000 min
Lab File: VU043789.D
Acq: 17 May 2021 13:48

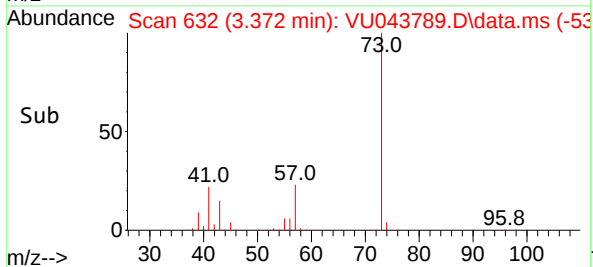
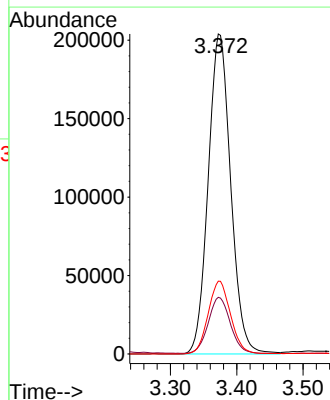
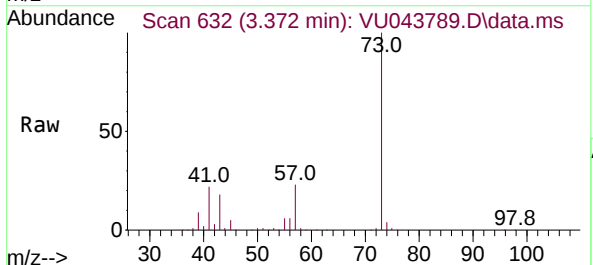
Instrument :
MSVOA_U
ClientSampled :

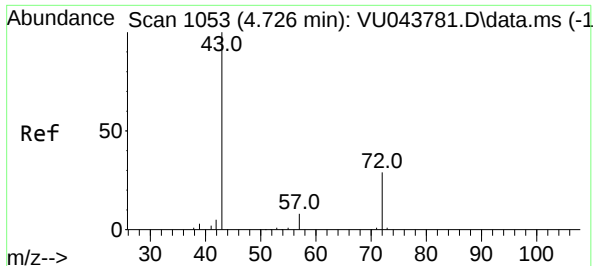
Tgt Ion: 84 Resp: 141124
Ion Ratio Lower Upper
84 100
86 63.6 44.7 82.9
49 113.5 83.1 154.3



#17
Methyl tert-butyl Ether
Concen: 12.96 ug/L
RT: 3.372 min Scan# 632
Delta R.T. -0.000 min
Lab File: VU043789.D
Acq: 17 May 2021 13:48

Tgt Ion: 73 Resp: 481218
Ion Ratio Lower Upper
73 100
43 17.1 15.0 22.4
57 22.6 18.6 27.8

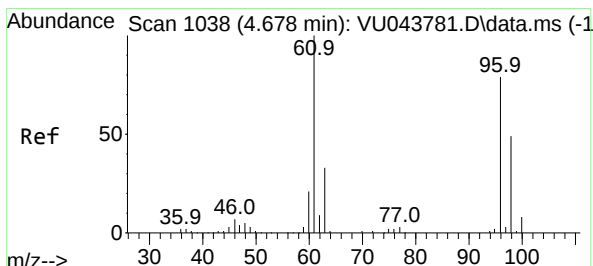
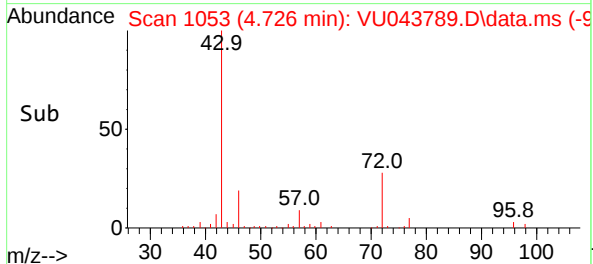
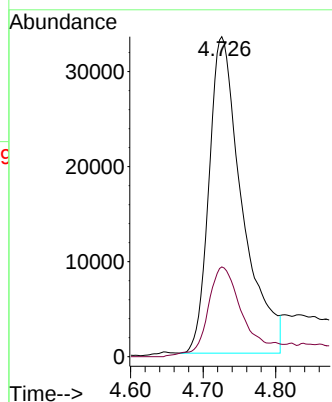
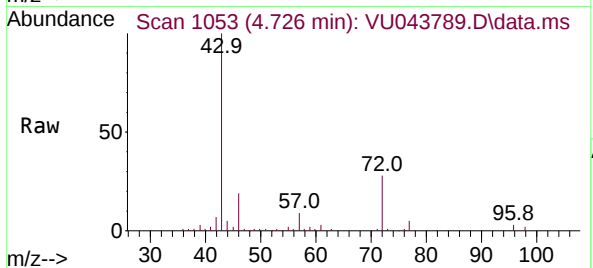




#21
2-Butanone
Concen: 24.97 ug/L
RT: 4.726 min Scan# 1053
Delta R.T. 0.003 min
Lab File: VU043789.D
Acq: 17 May 2021 13:48

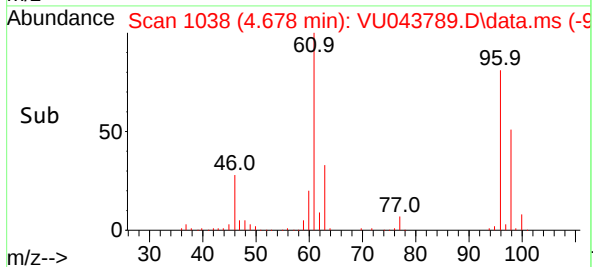
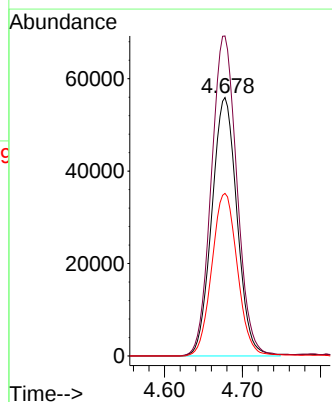
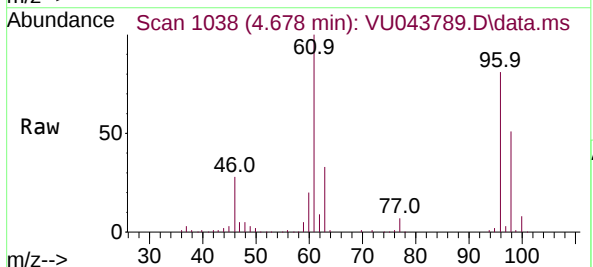
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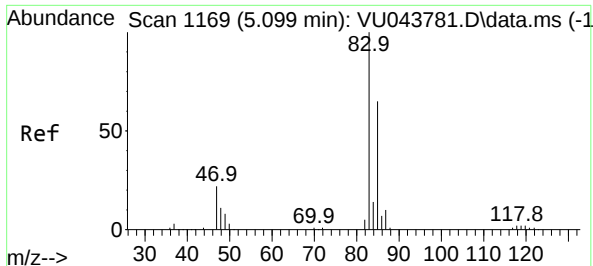
Tgt Ion: 43 Resp: 105648
Ion Ratio Lower Upper
43 100
72 29.0 14.5 43.6



#22
cis-1,2-Dichloroethene
Concen: 6.96 ug/L
RT: 4.678 min Scan# 1038
Delta R.T. -0.000 min
Lab File: VU043789.D
Acq: 17 May 2021 13:48

Tgt Ion: 96 Resp: 126025
Ion Ratio Lower Upper
96 100
61 123.8 89.0 165.4
98 62.9 44.9 83.3



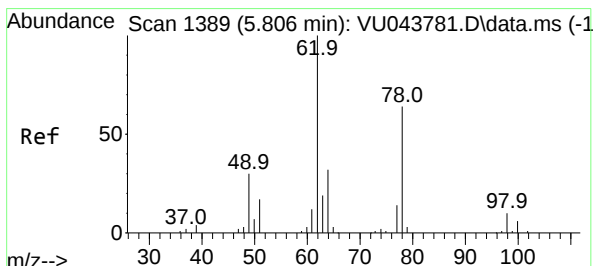
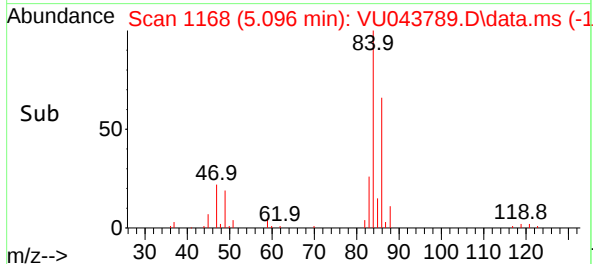
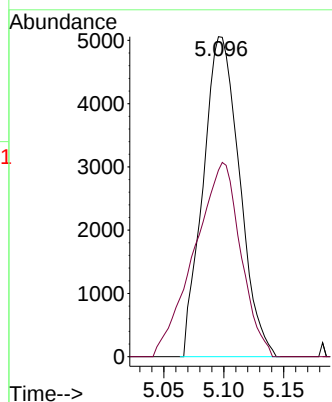
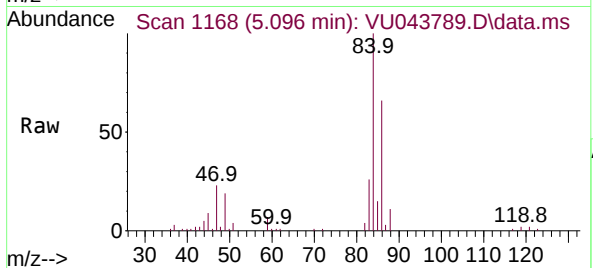


#25

Chloroform
Concen: 0.35 ug/L
RT: 5.096 min Scan# 1168
Delta R.T. -0.003 min
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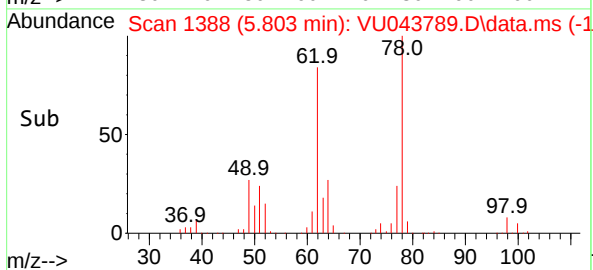
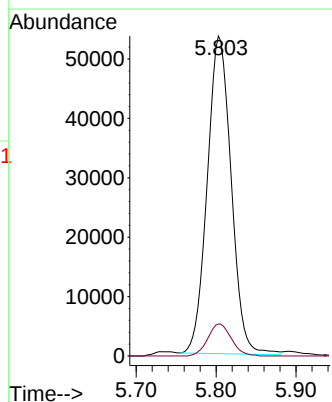
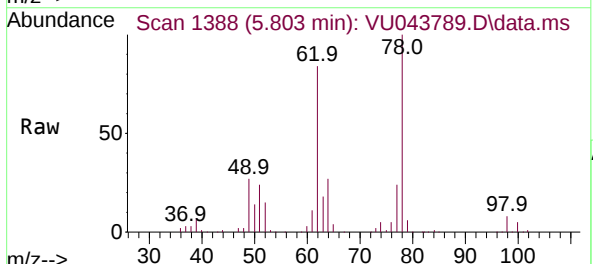
Tgt Ion: 83 Resp: 10693
Ion Ratio Lower Upper
83 100
85 58.2 45.0 83.6

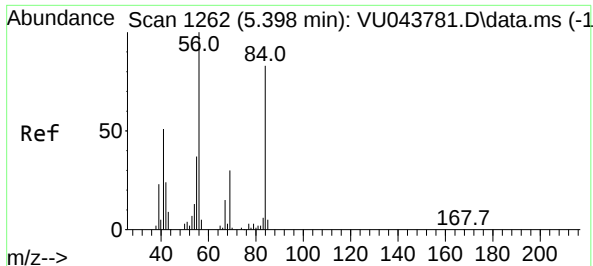


#27

1,2-Dichloroethane
Concen: 5.86 ug/L
RT: 5.803 min Scan# 1388
Delta R.T. -0.000 min
Lab File: VU043789.D
Acq: 17 May 2021 13:48

Tgt Ion: 62 Resp: 111319
Ion Ratio Lower Upper
62 100
98 10.0 7.7 11.5





#30

Cyclohexane

Concen: 10.94 ug/L

RT: 5.398 min Scan# 1262

Delta R.T. -0.000 min

Lab File: VU043789.D

Acq: 17 May 2021 13:48

Tgt Ion: 56 Resp: 303486

Ion Ratio Lower Upper

56 100

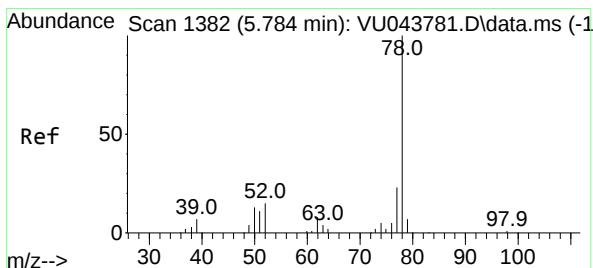
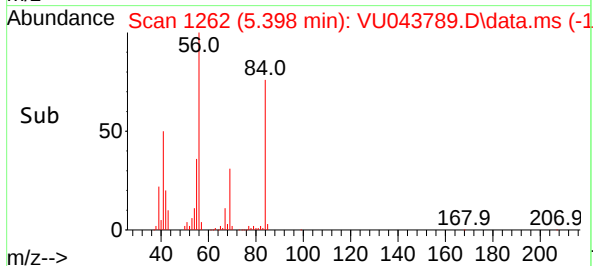
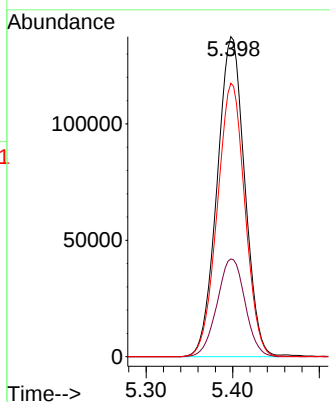
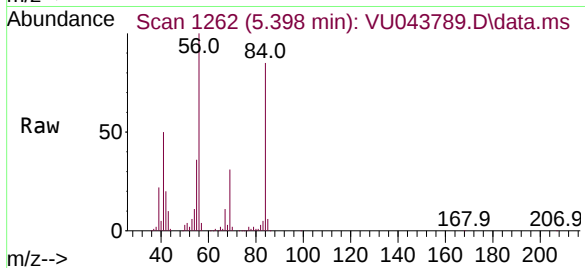
69 31.1 24.8 37.2

84 85.7 66.8 100.2

Instrument :

MSVOA_U

ClientSampled :



#33

Benzene

Concen: 5.72 ug/L

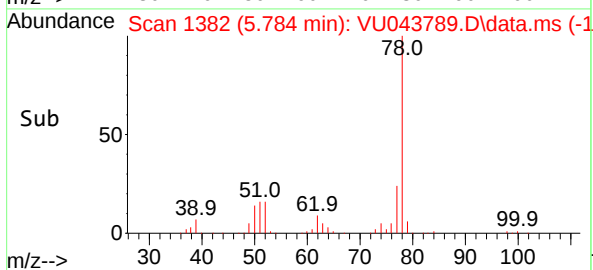
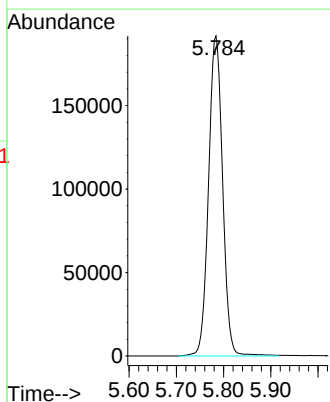
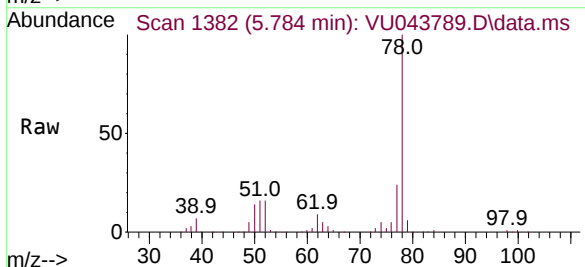
RT: 5.784 min Scan# 1382

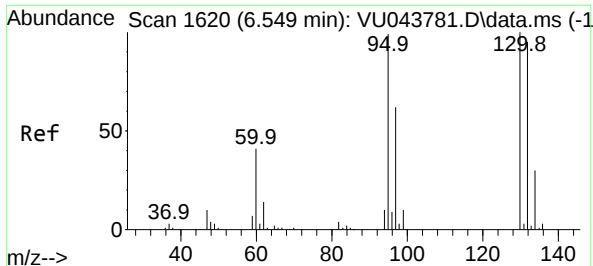
Delta R.T. -0.000 min

Lab File: VU043789.D

Acq: 17 May 2021 13:48

Tgt Ion: 78 Resp: 396322



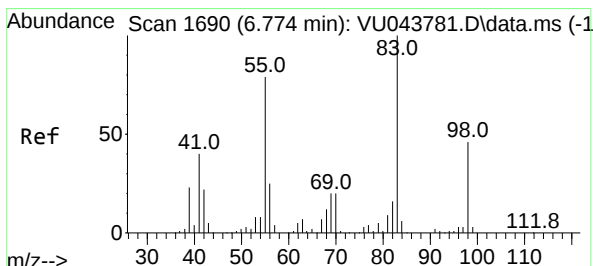
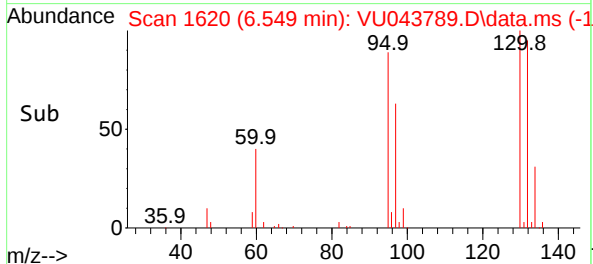
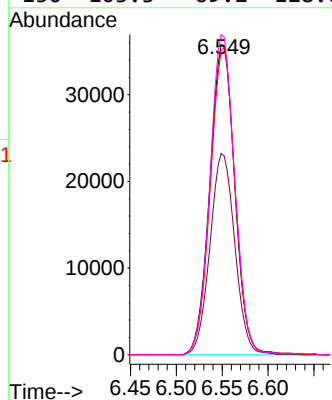
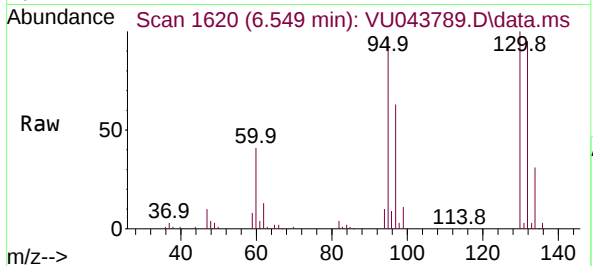


#34
Trichloroethene
Concen: 3.80 ug/L
RT: 6.549 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VU043789.D
Acq: 17 May 2021 13:48

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 95 Resp: 67636

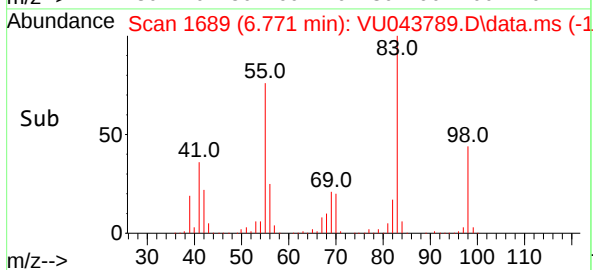
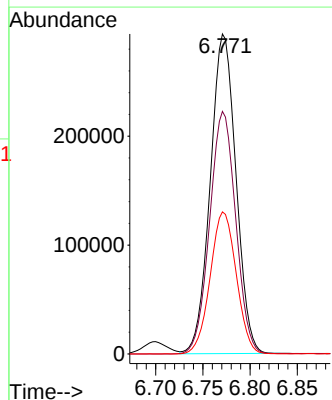
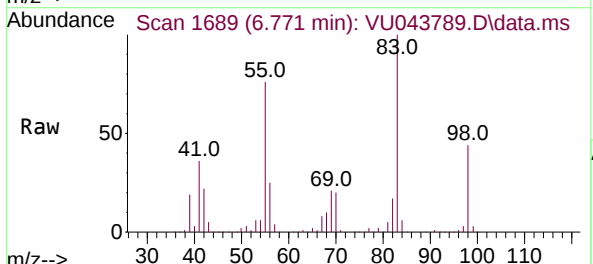
Ion	Ratio	Lower	Upper
95	100		
97	64.9	44.3	82.3
132	98.1	66.0	122.6
130	103.3	69.2	128.6

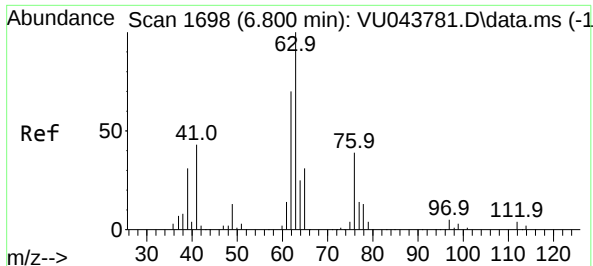


#35
Methylcyclohexane
Concen: 20.08 ug/L
RT: 6.771 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VU043789.D
Acq: 17 May 2021 13:48

Tgt Ion: 83 Resp: 555411

Ion	Ratio	Lower	Upper
83	100		
55	77.0	64.8	97.2
98	45.2	35.9	53.9



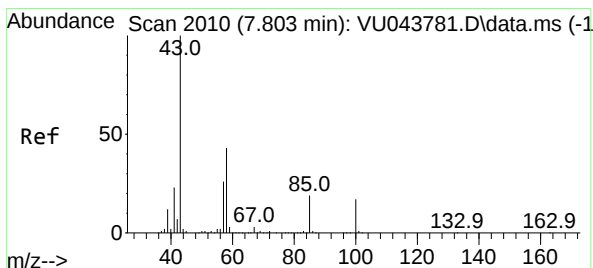
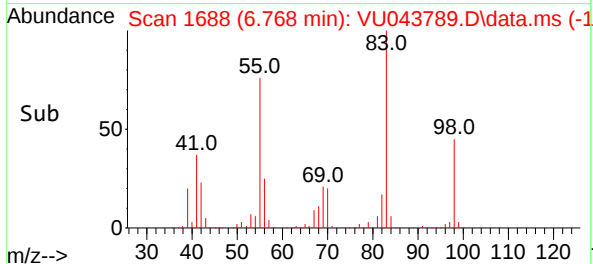
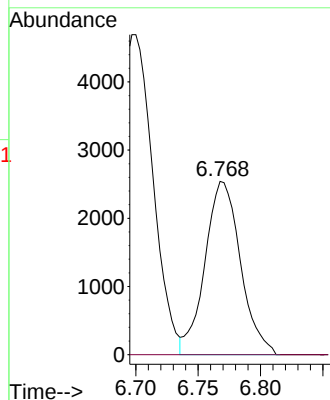
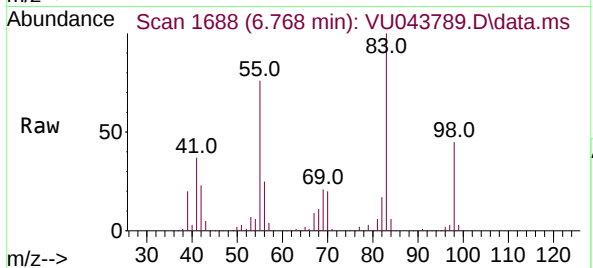


#37

1,2-Dichloropropane
Concen: 0.28 ug/L
RT: 6.768 min Scan# 1688
Delta R.T. -0.032 min
Lab File: VU043789.D
Acq: 17 May 2021 13:48

Instrument :
MSVOA_U
ClientSampled :

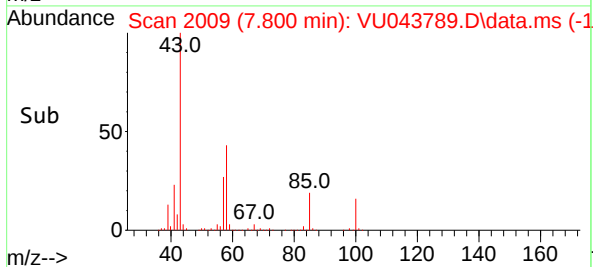
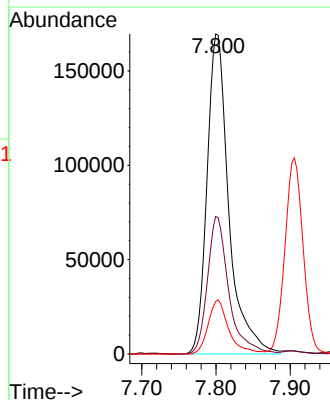
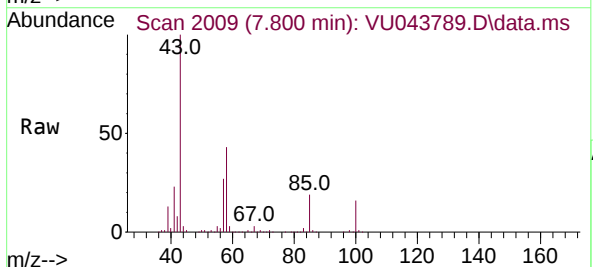
Tgt Ion: 63 Resp: 5037
Ion Ratio Lower Upper
63 100
112 0.0 3.3 4.9#

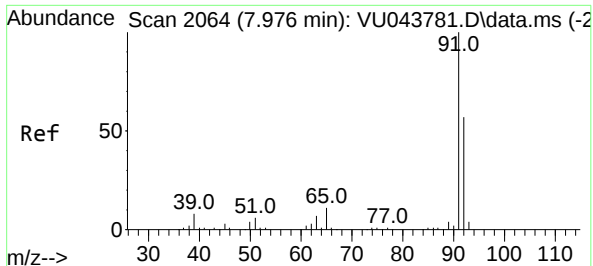


#40

4-Methyl-2-pentanone
Concen: 29.87 ug/L
RT: 7.800 min Scan# 2009
Delta R.T. -0.000 min
Lab File: VU043789.D
Acq: 17 May 2021 13:48

Tgt Ion: 43 Resp: 345568
Ion Ratio Lower Upper
43 100
58 42.1 32.8 49.2
100 16.1 11.9 17.9





#42

Toluene

Concen: 18.02 ug/L

RT: 7.976 min Scan# 2064

Delta R.T. -0.000 min

Lab File: VU043789.D

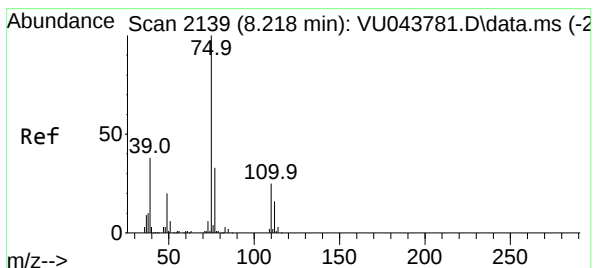
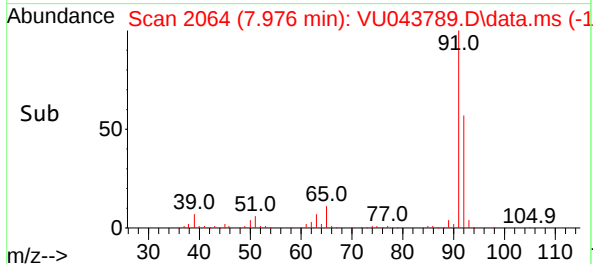
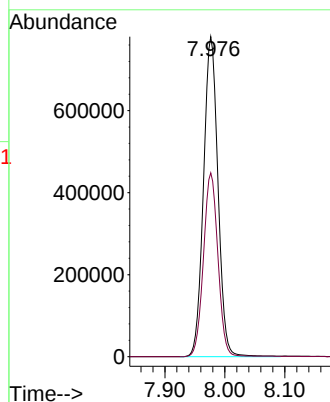
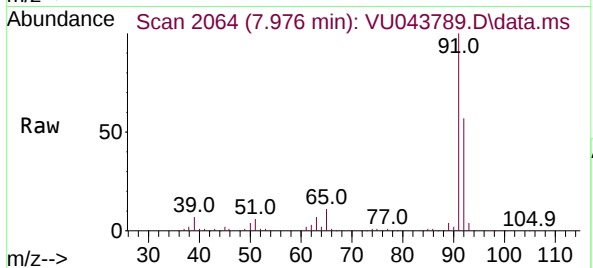
Acq: 17 May 2021 13:48

Tgt Ion: 91 Resp: 1312611

Ion Ratio Lower Upper

91 100

92 57.5 40.3 74.8



#44

trans-1,3-Dichloropropene

Concen: 0.18 ug/L

RT: 8.185 min Scan# 2129

Delta R.T. -0.032 min

Lab File: VU043789.D

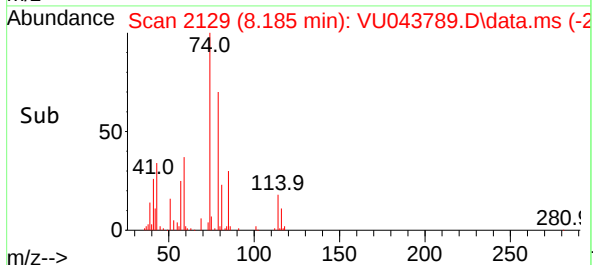
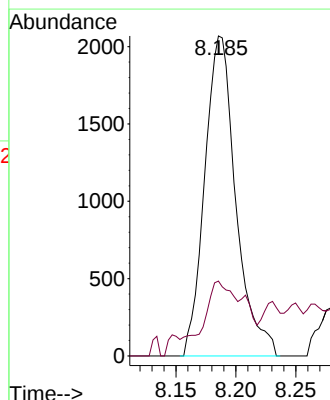
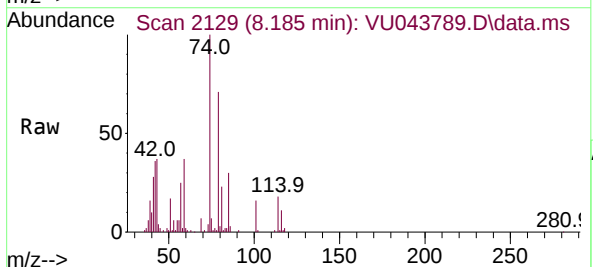
Acq: 17 May 2021 13:48

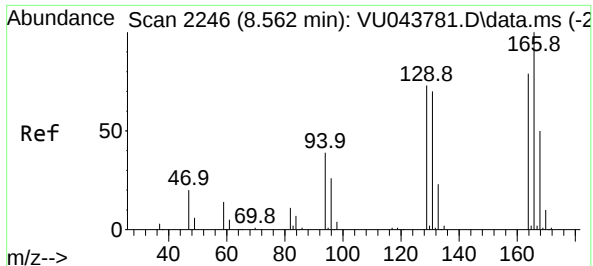
Tgt Ion: 75 Resp: 3735

Ion Ratio Lower Upper

75 100

77 23.4 21.5 39.9





#47

Tetrachloroethene

Concen: 4.86 ug/L

RT: 8.558 min Scan# 2245

Delta R.T. -0.000 min

Lab File: VU043789.D

Acq: 17 May 2021 13:48

Tgt Ion:164 Resp: 69926

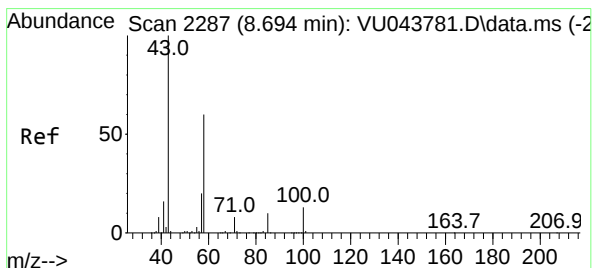
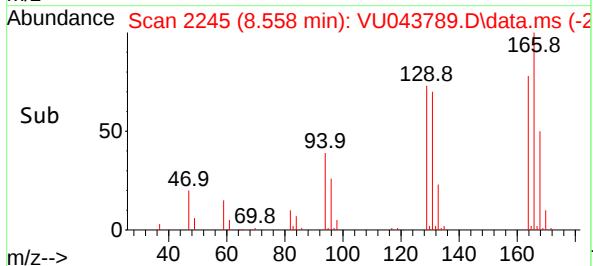
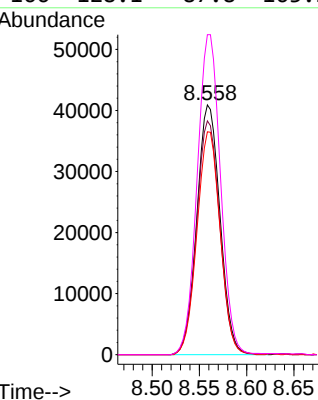
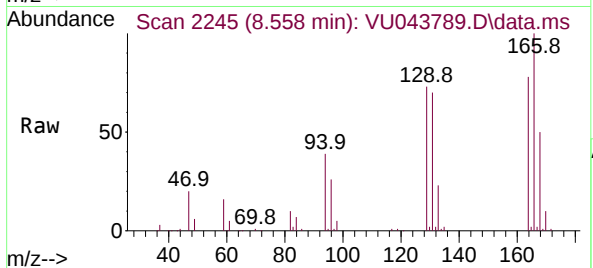
Ion Ratio Lower Upper

164 100

129 93.6 64.1 119.1

131 89.2 61.2 113.8

166 128.1 87.8 163.2



#48

2-Hexanone

Concen: 20.96 ug/L

RT: 8.693 min Scan# 2287

Delta R.T. -0.000 min

Lab File: VU043789.D

Acq: 17 May 2021 13:48

Tgt Ion: 43 Resp: 179873

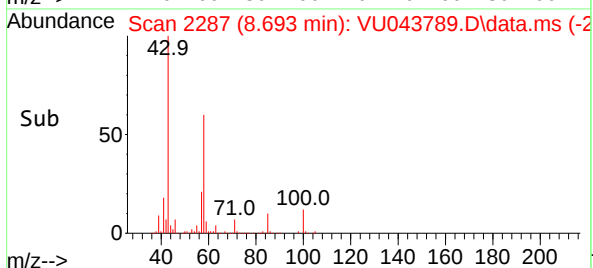
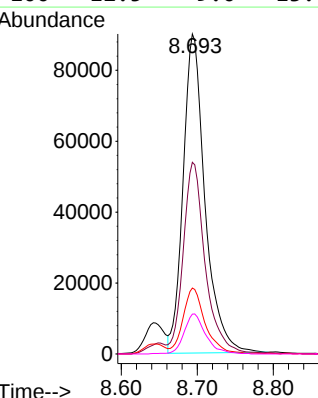
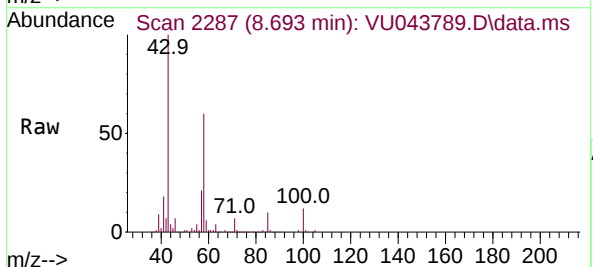
Ion Ratio Lower Upper

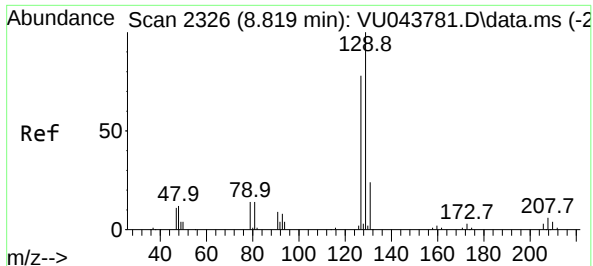
43 100

58 60.6 47.0 70.4

57 20.6 15.8 23.8

100 12.5 9.0 13.4





#49

Dibromochloromethane

Concen: 4.44 ug/L

RT: 8.558 min Scan# 2245

Delta R.T. -0.257 min

Lab File: VU043789.D

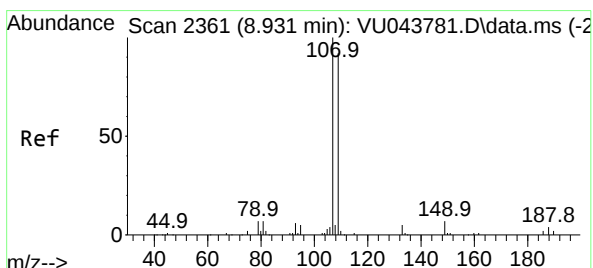
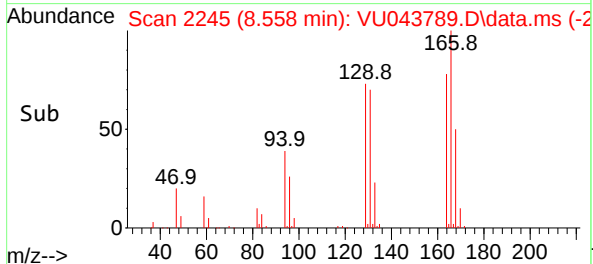
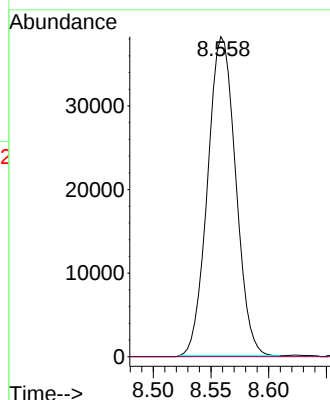
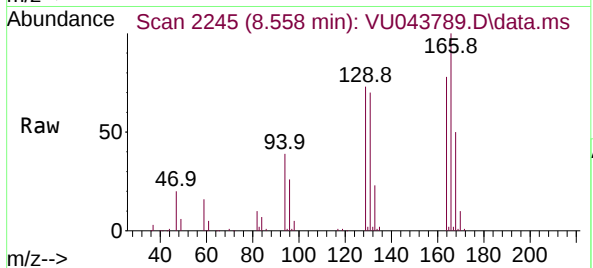
Acq: 17 May 2021 13:48

Tgt Ion:129 Resp: 64515

Ion Ratio Lower Upper

129 100

127 0.0 53.4 99.2#



#50

1,2-Dibromoethane

Concen: 2.29 ug/L

RT: 8.931 min Scan# 2361

Delta R.T. -0.000 min

Lab File: VU043789.D

Acq: 17 May 2021 13:48

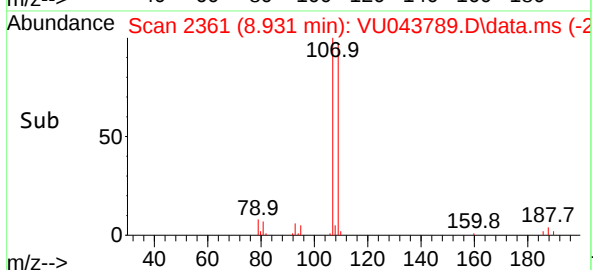
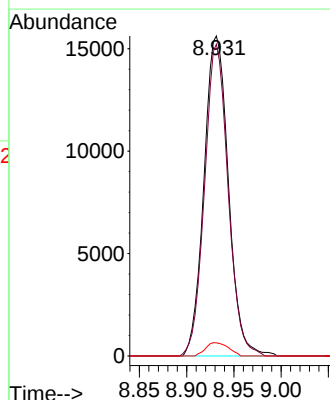
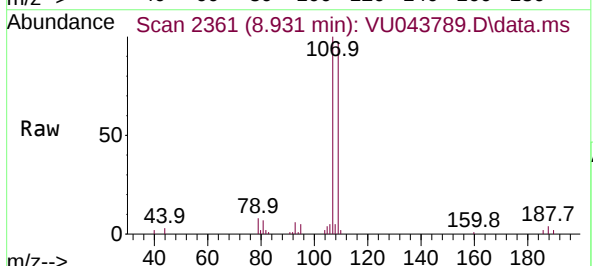
Tgt Ion:107 Resp: 28109

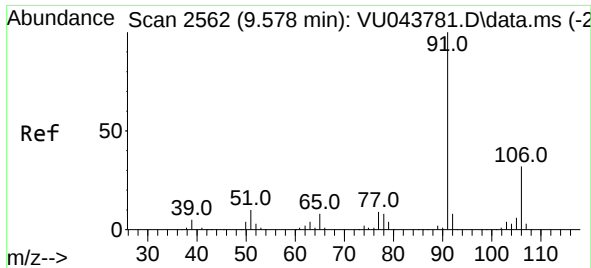
Ion Ratio Lower Upper

107 100

109 97.4 67.7 125.7

188 4.1 3.3 4.9

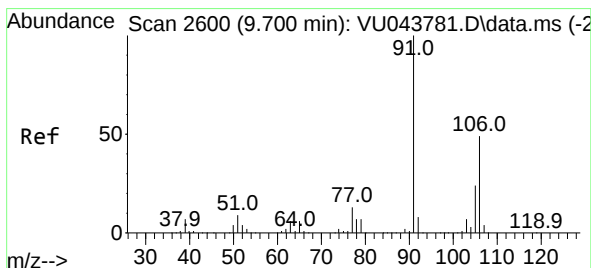
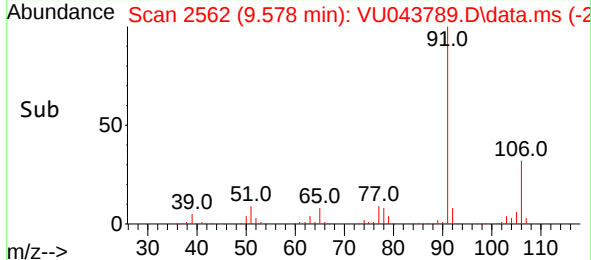
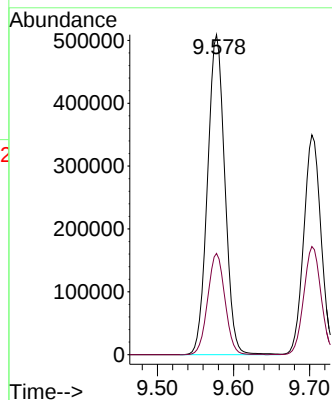
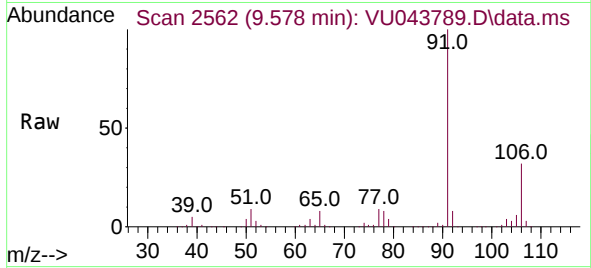




#52
Ethylbenzene
Concen: 10.80 ug/L
RT: 9.578 min Scan# 2562
Delta R.T. -0.000 min
Lab File: VU043789.D
Acq: 17 May 2021 13:48

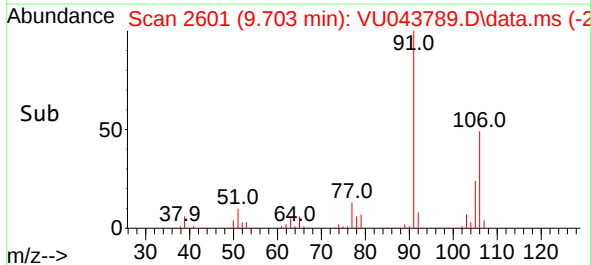
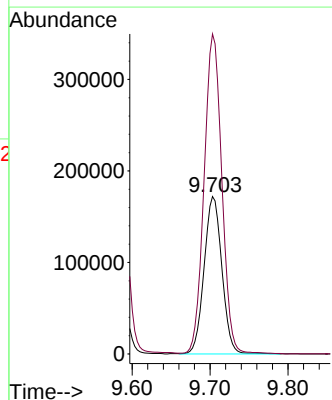
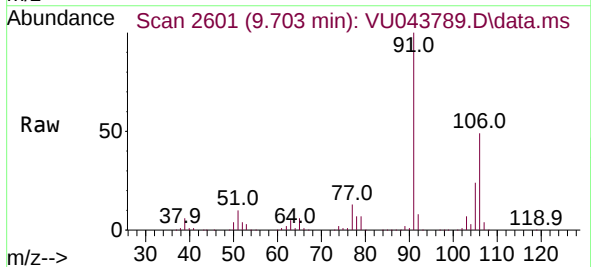
Instrument :
MSVOA_U
ClientSampled :

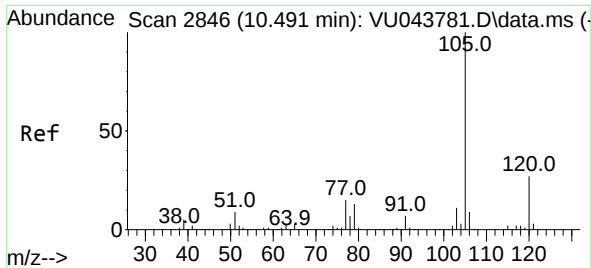
Tgt Ion: 91 Resp: 805086
Ion Ratio Lower Upper
91 100
106 31.7 21.7 40.3



#53
m,p-Xylene
Concen: 9.64 ug/L
RT: 9.703 min Scan# 2601
Delta R.T. 0.003 min
Lab File: VU043789.D
Acq: 17 May 2021 13:48

Tgt Ion:106 Resp: 273471
Ion Ratio Lower Upper
106 100
91 203.2 144.4 268.2

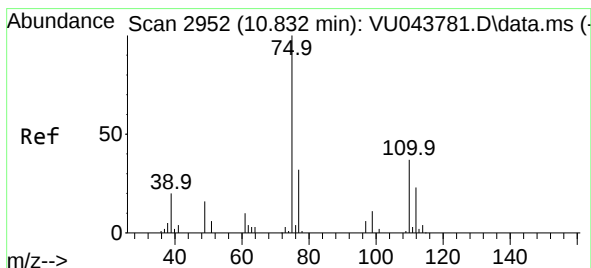
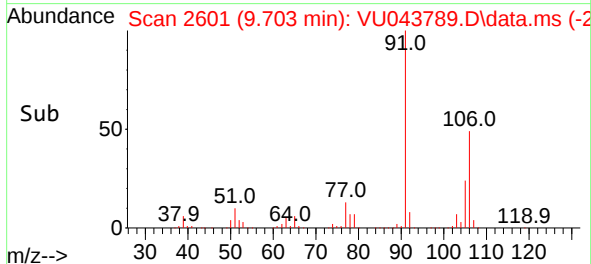
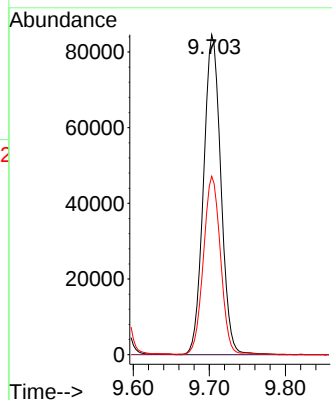
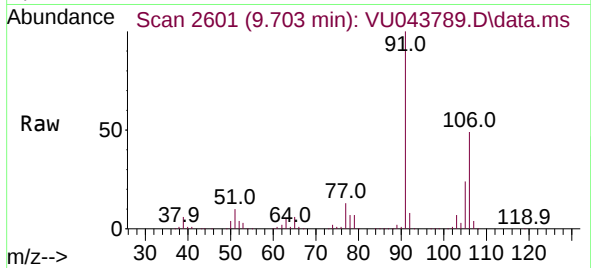




#60
Isopropylbenzene
Concen: 2.01 ug/L
RT: 9.703 min Scan# 2601
Delta R.T. -0.788 min
Lab File: VU043789.D
Acq: 17 May 2021 13:48

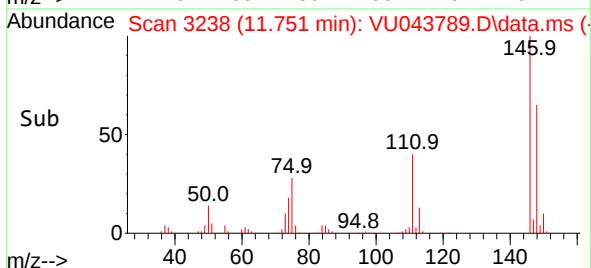
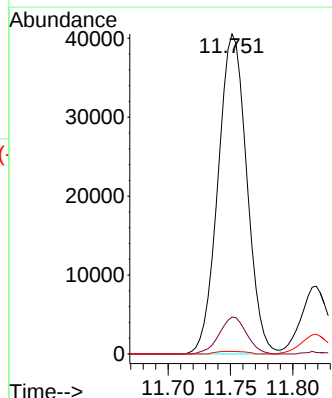
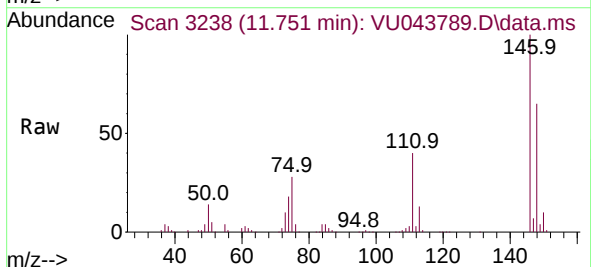
Instrument :
MSVOA_U
ClientSampleId :

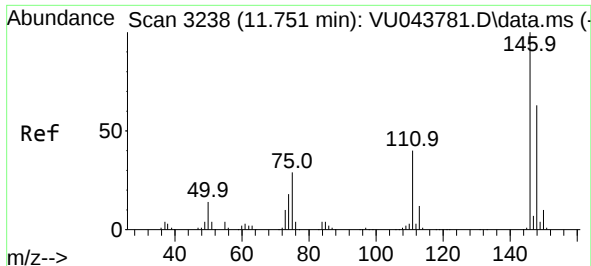
Tgt Ion:105 Resp: 134148
Ion Ratio Lower Upper
105 100
120 0.0 21.3 31.9#
77 54.8 12.6 19.0#



#61
1,2,3-Trichloropropane
Concen: 5.61 ug/L
RT: 11.751 min Scan# 3238
Delta R.T. 0.923 min
Lab File: VU043789.D
Acq: 17 May 2021 13:48

Tgt Ion: 75 Resp: 65181
Ion Ratio Lower Upper
75 100
110 10.9 27.9 41.9#
77 0.0 25.9 38.9#

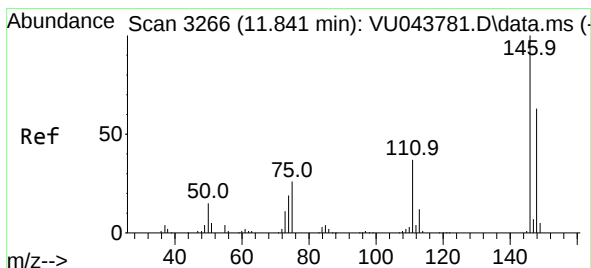
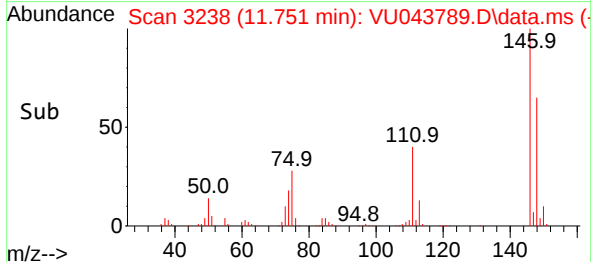
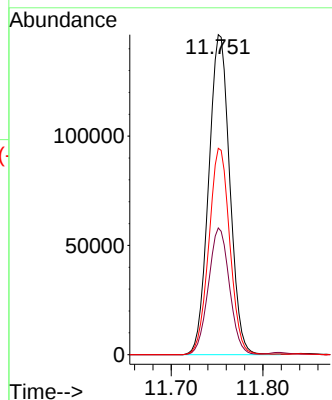
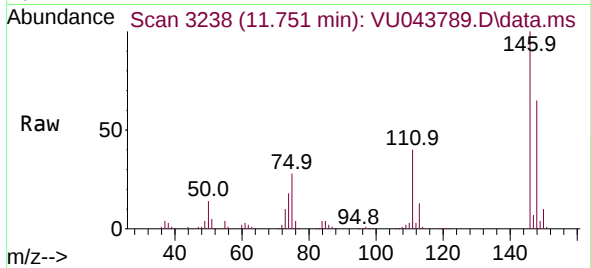




#64
1,3-Dichlorobenzene
Concen: 6.80 ug/L
RT: 11.751 min Scan# 3238
Delta R.T. -0.000 min
Lab File: VU043789.D
Acq: 17 May 2021 13:48

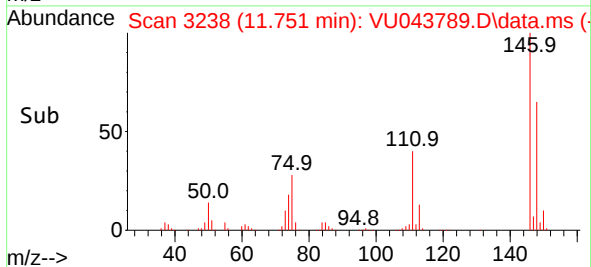
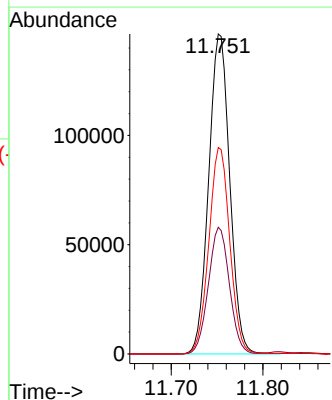
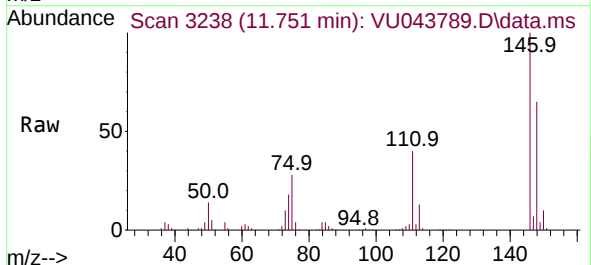
Instrument :
MSVOA_U
ClientSampled :

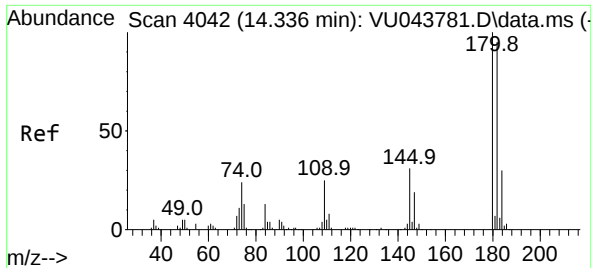
Tgt Ion:146 Resp: 233826
Ion Ratio Lower Upper
146 100
111 39.6 28.1 52.1
148 64.5 45.6 84.6



#65
1,4-Dichlorobenzene
Concen: 6.76 ug/L
RT: 11.751 min Scan# 3238
Delta R.T. -0.090 min
Lab File: VU043789.D
Acq: 17 May 2021 13:48

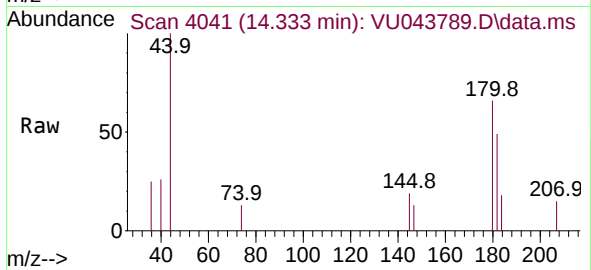
Tgt Ion:146 Resp: 233826
Ion Ratio Lower Upper
146 100
111 39.6 27.0 50.2
148 64.5 45.0 83.6





#72
 1,2,3-Trichlorobenzene
 Concen: 0.05 ug/L
 RT: 14.333 min Scan# 4041
 Delta R.T. -0.003 min
 Lab File: VU043789.D
 Acq: 17 May 2021 13:48

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:	180	Resp:	976
Ion Ratio	Lower	Upper	
180	100		
182	85.8	77.0	115.4
145	14.3	24.6	36.8#

