

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U012320\
 Data File : VU036534.D
 Acq On : 23 Jan 2020 12:08
 Operator : JC/MD
 Sample : L1134-07
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 24 00:51:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U012220DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Thu Jan 23 08:59:25 2020
 Response via : Initial Calibration

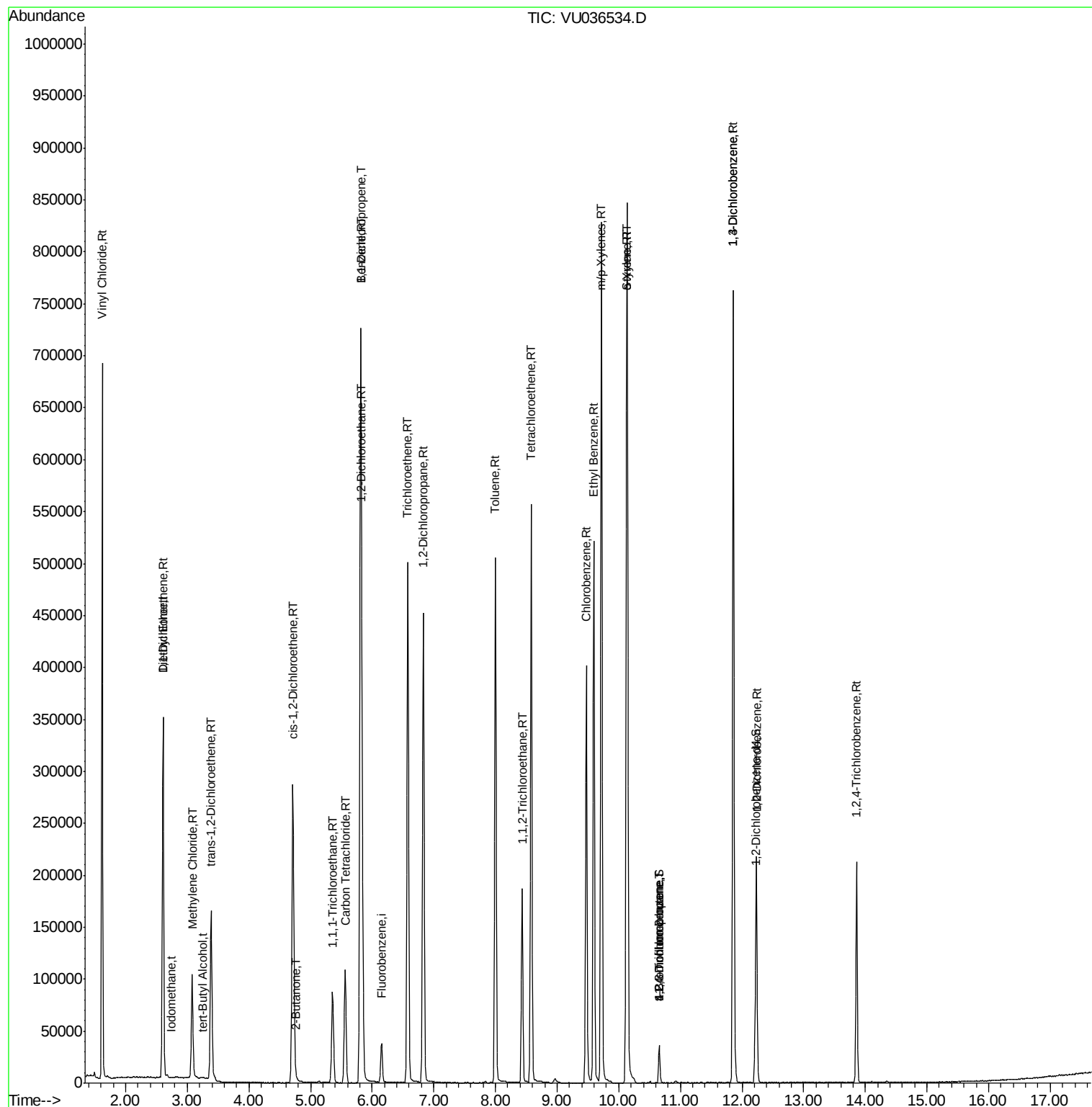
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.15	96	35508	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.65	95	13265	0.99	ug/l	0.00
Spiked Amount 1.000			Recovery	=	99.00%	
68) 1,2-Dichlorobenzene-d4	12.21	152	13731	1.00	ug/l	0.00
Spiked Amount 1.000			Recovery	=	100.00%	
Target Compounds						
					Ovalue	
4) Vinyl Chloride	1.62	62	456764	32.048	ug/l	99
9) 1,1-Dichloroethene	2.61	96	123540	13.230	ug/l	98
10) Iodomethane	2.75	142	19	0.641	ug/l #	37
13) Acetone	2.68	43	2092	Below Cal		99
15) Methylene Chloride	3.08	84	50362	4.095	ug/l	96
16) trans-1,2-Dichloroethene	3.39	96	71457	6.938	ug/l	99
18) 2-Butanone	4.78	43	556	0.226	ug/l	75
22) cis-1,2-Dichloroethene	4.71	96	156254	14.622	ug/l	92
23) Diethyl Ether	2.61	59	5887	0.816	ug/l #	16
24) tert-Butyl Alcohol	3.26	59	297	0.461	ug/l #	72
28) 1,1,1-Trichloroethane	5.36	97	62623	4.498	ug/l	99
29) 1,1-Dichloropropene	5.81	75	12280	0.904	ug/l #	1
30) Carbon Tetrachloride	5.56	117	74854	6.279	ug/l	99
35) Benzene	5.82	78	673674	17.122	ug/l	100
36) 1,2-Dichloroethane	5.84	62	175954	16.613	ug/l	99
37) Trichloroethene	6.58	130	177052	16.300	ug/l	97
38) 1,2-Dichloropropane	6.83	63	185907	18.793	ug/l	99
46) t-1,4-Dichloro-2-butene	10.66	75	6221	2.428	ug/l #	29
49) Toluene	8.00	92	219594	8.744	ug/l	99
52) 1,1,1-Trichloroethane	8.43	97	59911	8.178	ug/l	99
58) Tetrachloroethene	8.58	164	128270	11.814	ug/l	98
59) Chlorobenzene	9.47	112	231198	8.264	ug/l	100
63) Ethyl Benzene	9.60	91	376312	8.026	ug/l	99
64) m/p-Xylenes	9.72	106	248023	13.364	ug/l	99
65) o-Xylene	10.12	106	124900	6.950	ug/l	99
66) Styrene	10.14	104	328289	10.908	ug/l	96
71) 1,2,3-Trichloropropane	10.66	75	6221	0.943	ug/l #	30
82) 1,3-Dichlorobenzene	11.86	146	334372	14.693	ug/l	99
83) 1,4-Dichlorobenzene	11.86	146	334372	14.701	ug/l	100
85) 1,2-Dichlorobenzene	12.23	146	88017	4.042	ug/l	99
87) 1,2,4-Trichlorobenzene	13.86	180	68186	4.895	ug/l	98

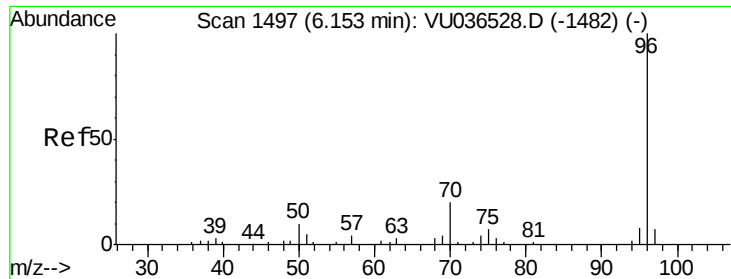
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 6.15 min Scan# 1497

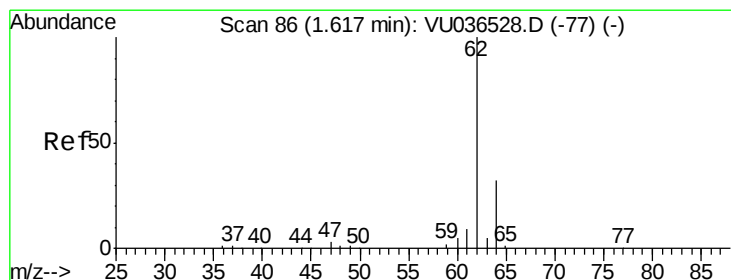
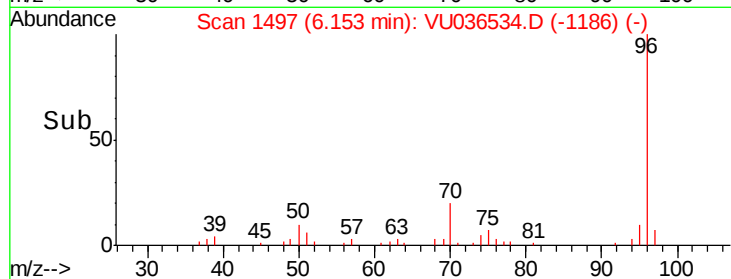
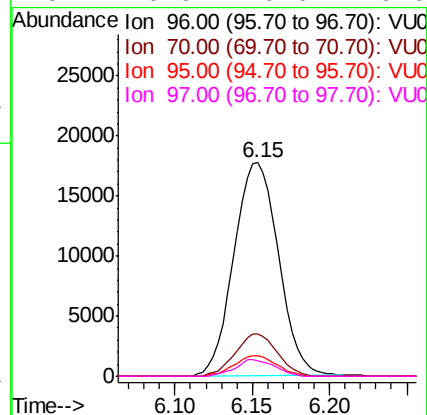
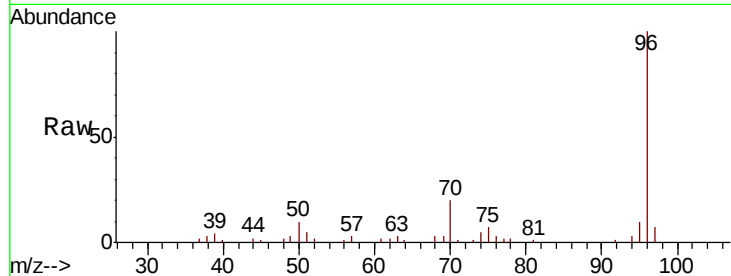
Delta R.T. -0.00 min

Lab File: VU036534.D

Acq: 23 Jan 2020 12:08

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:	96	Resp:	35508
Ion	Ratio	Lower	Upper
96	100		
70	18.7	15.6	23.4
95	0.0	7.0	10.6#
97	6.9	0.0	0.0#



#4

Vinyl Chloride

Concen: 32.048 ug/l

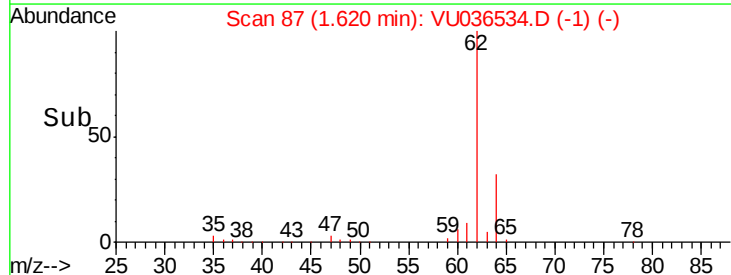
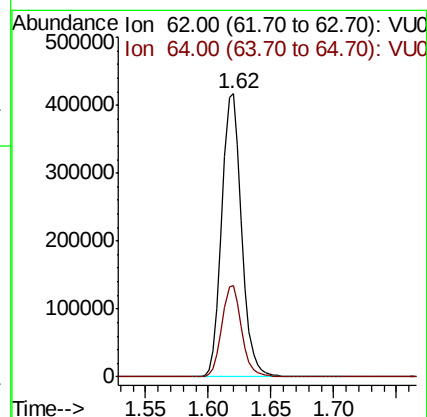
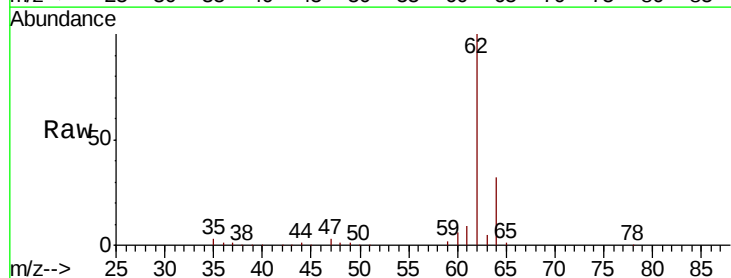
RT: 1.62 min Scan# 87

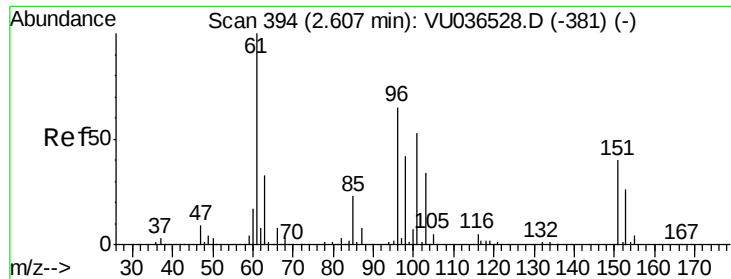
Delta R.T. 0.00 min

Lab File: VU036534.D

Acq: 23 Jan 2020 12:08

Tgt Ion:	62	Resp:	456764
Ion	Ratio	Lower	Upper
62	100		
64	32.3	25.4	38.2





#9

1,1-Dichloroethene

Concen: 13.230 ug/l

RT: 2.61 min Scan# 394

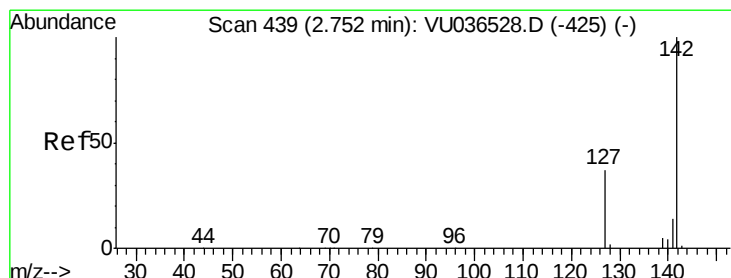
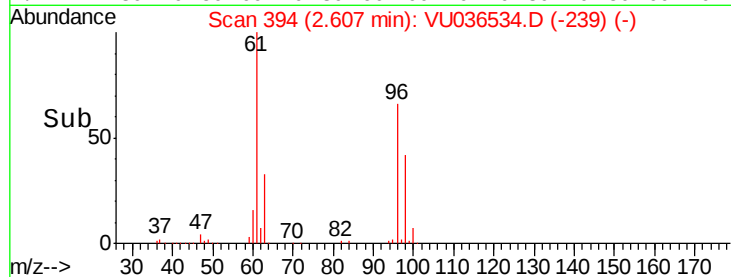
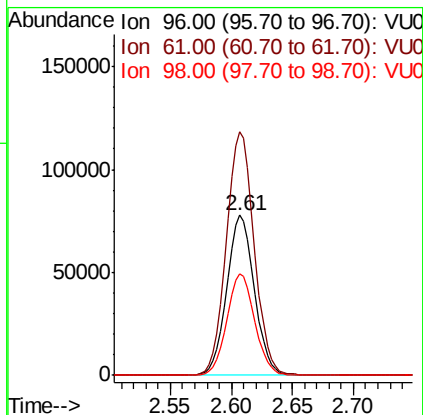
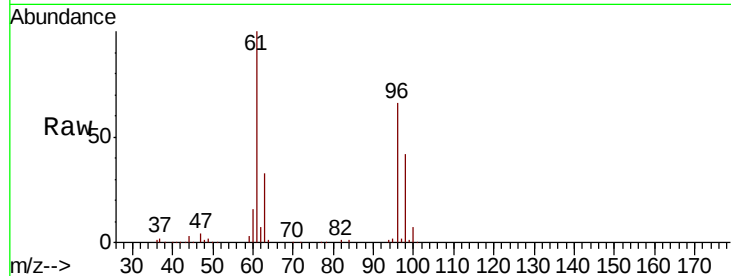
Delta R.T. -0.00 min

Lab File: VU036534.D

Acq: 23 Jan 2020 12:08

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:	96	Resp:	123540
Ion	Ratio	Lower	Upper
96	100		
61	152.4	0.0	463.2
98	63.6	0.0	130.0



#10

Iodomethane

Concen: 0.641 ug/l

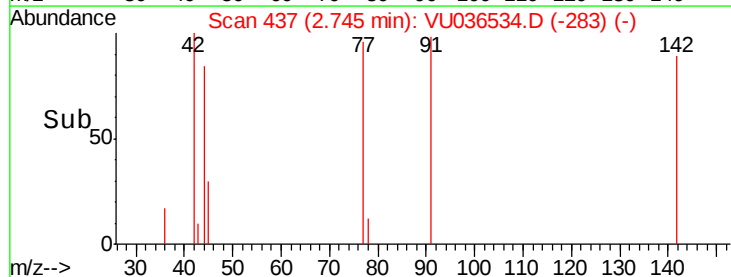
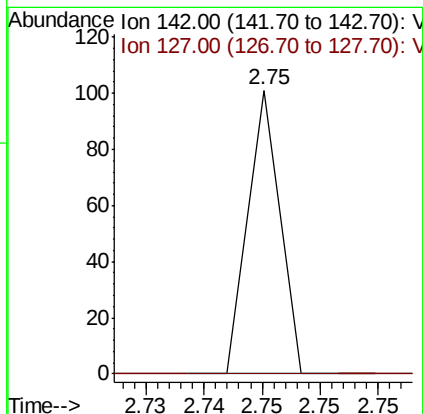
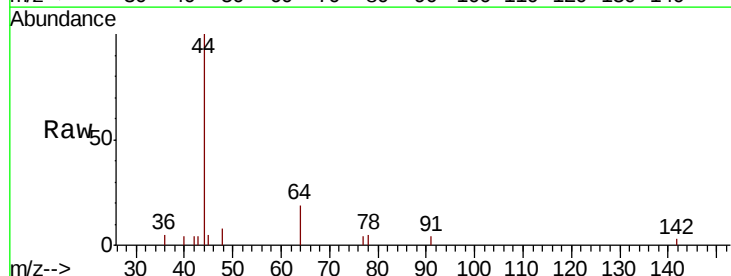
RT: 2.75 min Scan# 437

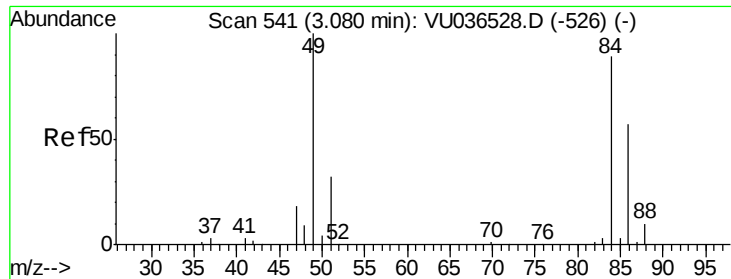
Delta R.T. -0.01 min

Lab File: VU036534.D

Acq: 23 Jan 2020 12:08

Tgt Ion:	142	Resp:	19
Ion	Ratio	Lower	Upper
142	100		
127	0.0	30.3	45.5#

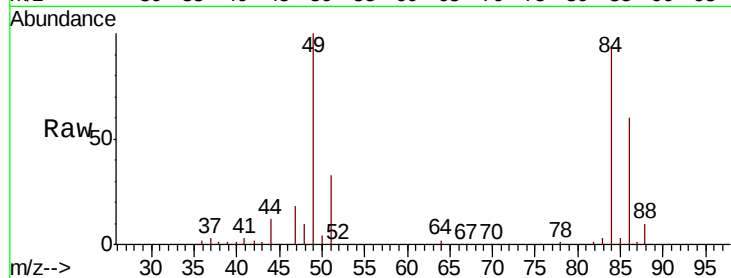




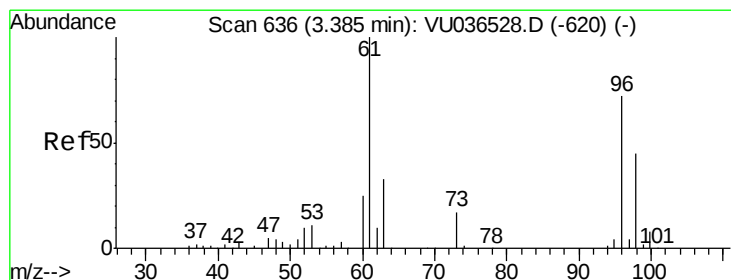
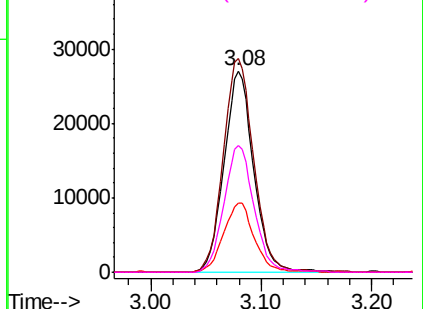
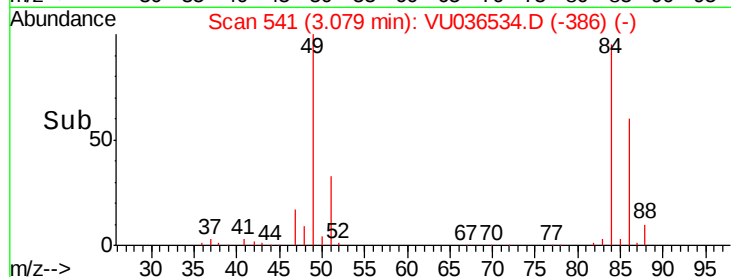
#15
Methvlene Chloride
Concen: 4.095 ug/l
RT: 3.08 min Scan# 541
Delta R.T. -0.00 min
Lab File: VU036534.D
Acq: 23 Jan 2020 12:08

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:	84	Resp:	50362
Ion	Ratio	Lower	Upper
84	100		
49	106.1	89.7	134.5
51	34.6	0.0	71.6
86	63.1	51.4	77.2

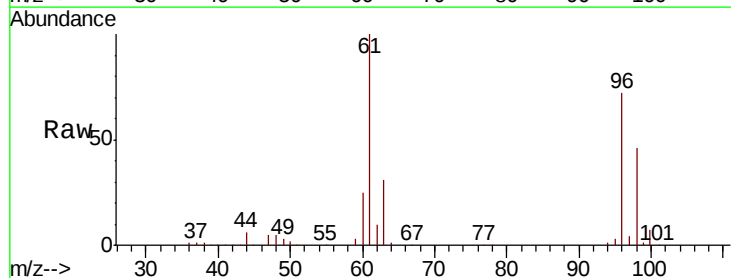


Abundance Ion 84.00 (83.70 to 84.70): VU0
Ion 49.00 (48.70 to 49.70): VU0
Ion 51.00 (50.70 to 51.70): VU0
Ion 86.00 (85.70 to 86.70): VU0

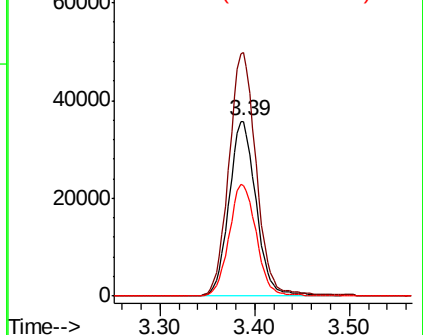
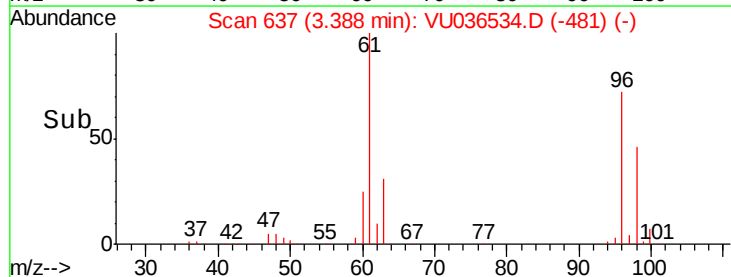


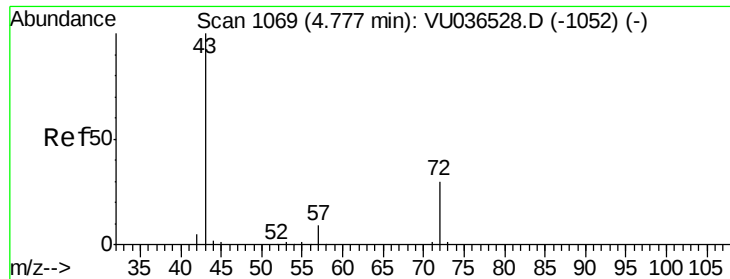
#16
trans-1,2-Dichloroethene
Concen: 6.938 ug/l
RT: 3.39 min Scan# 637
Delta R.T. 0.00 min
Lab File: VU036534.D
Acq: 23 Jan 2020 12:08

Tgt Ion:	96	Resp:	71457
Ion	Ratio	Lower	Upper
96	100		
61	139.3	110.8	166.2
98	63.5	50.3	75.5



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

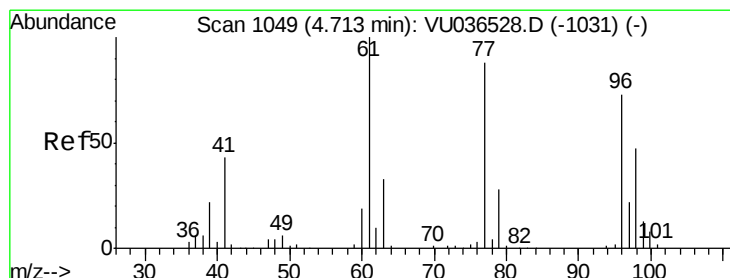
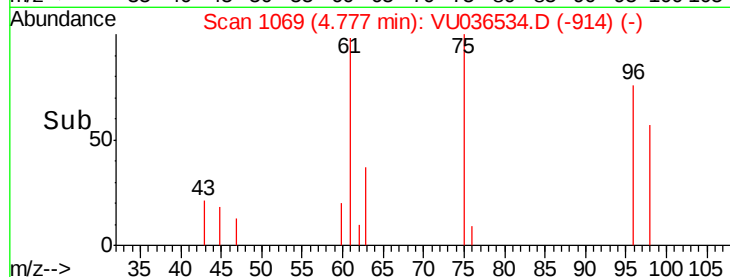
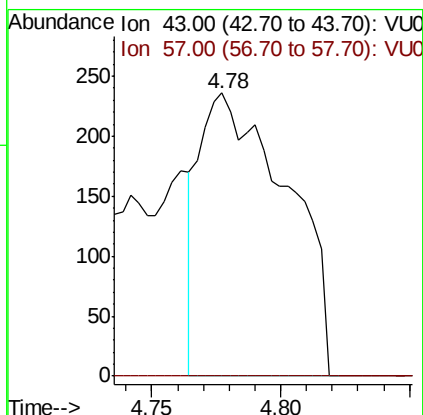
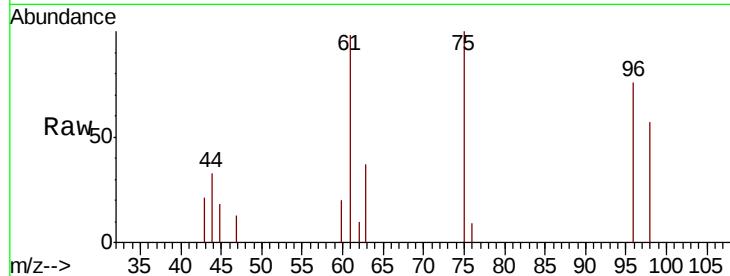




#18
2-Butanone
Concen: 0.226 ug/l
RT: 4.78 min Scan# 1069
Delta R.T. -0.00 min
Lab File: VU036534.D
Acq: 23 Jan 2020 12:08

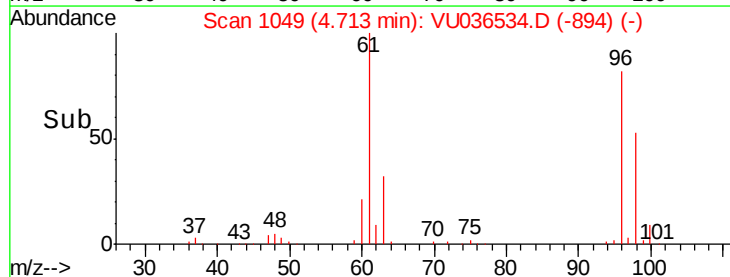
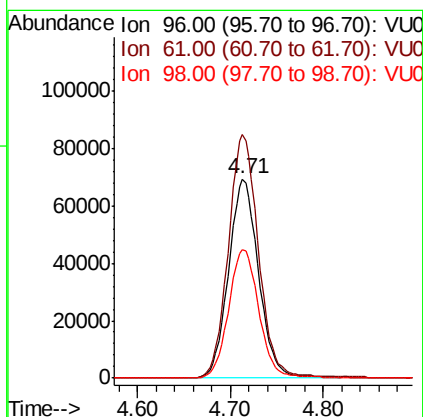
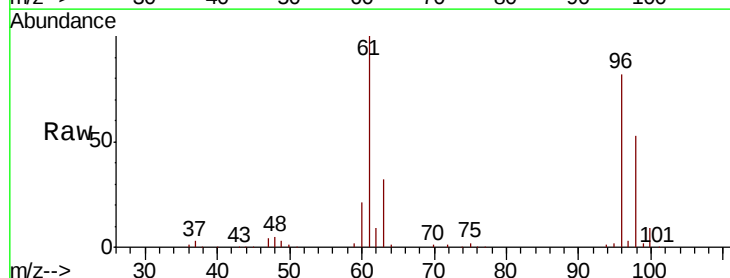
Instrument :
MSVOA_U
ClientSampled :

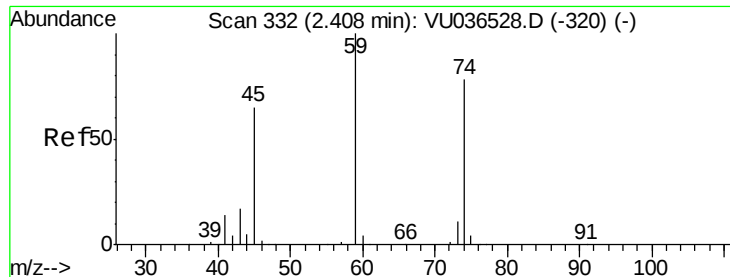
Tot Ion: 43 Resp: 556
Ion Ratio Lower Upper
43 100
57 0.0 0.0 17.8



#22
cis-1,2-Dichloroethene
Concen: 14.622 ug/l
RT: 4.71 min Scan# 1049
Delta R.T. -0.00 min
Lab File: VU036534.D
Acq: 23 Jan 2020 12:08

Tgt Ion: 96 Resp: 156254
Ion Ratio Lower Upper
96 100
61 122.7 0.0 342.0
98 64.9 32.0 96.0





#23

Diethyl Ether

Concen: 0.816 ug/l

RT: 2.61 min Scan# 394

Delta R.T. 0.20 min

Lab File: VU036534.D

Acq: 23 Jan 2020 12:08

Instrument :

MSVOA_U

ClientSampleId :

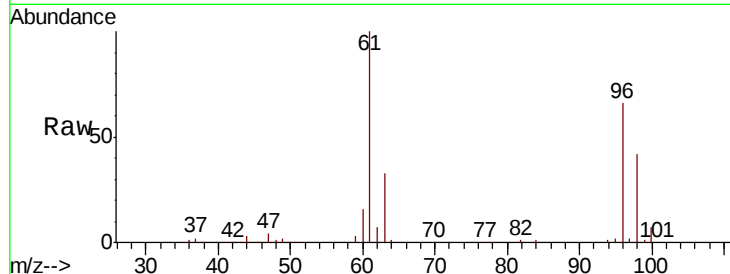
Tot Ion: 59 Resp: 5887

Ion Ratio Lower Upper

59 100

45 3.5 52.4 78.6#

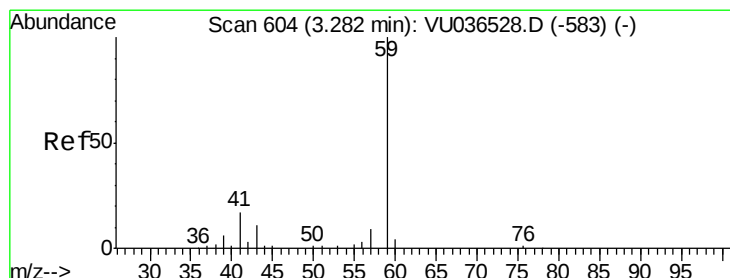
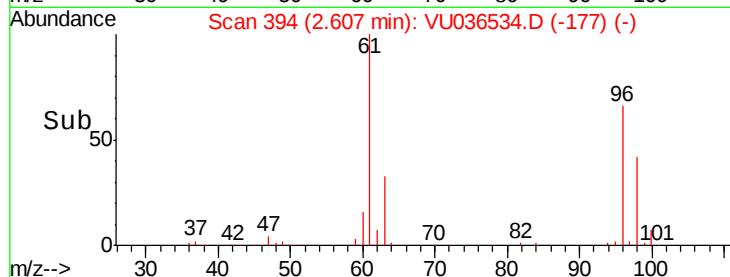
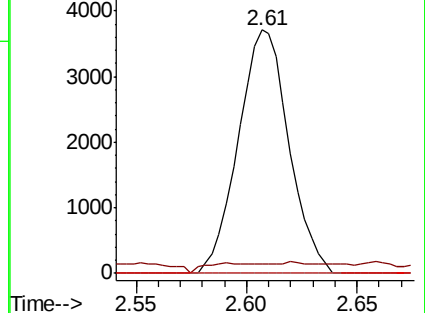
74 0.0 62.1 93.1#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 45.00 (44.70 to 45.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#24

tert-Butyl Alcohol

Concen: 0.461 ug/l

RT: 3.26 min Scan# 596

Delta R.T. -0.03 min

Lab File: VU036534.D

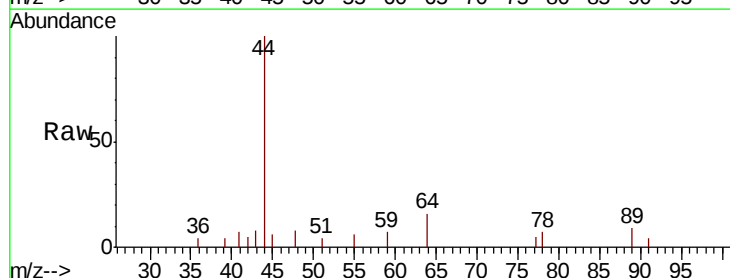
Acq: 23 Jan 2020 12:08

Tgt Ion: 59 Resp: 297

Ion Ratio Lower Upper

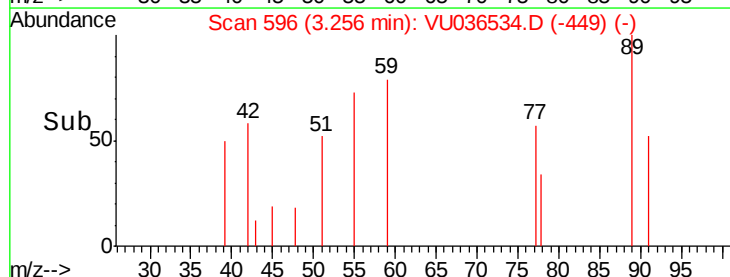
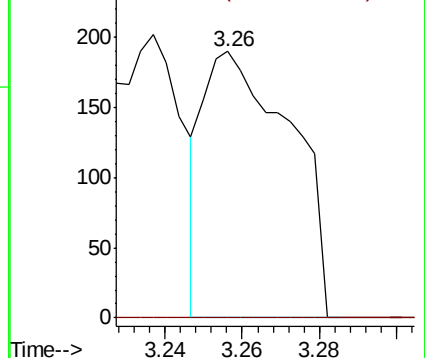
59 100

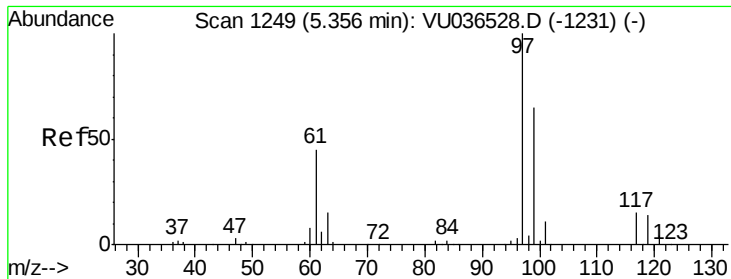
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

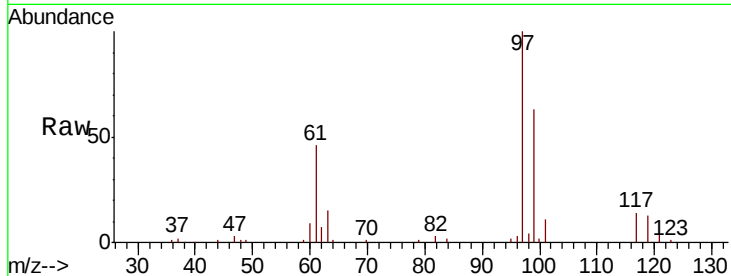




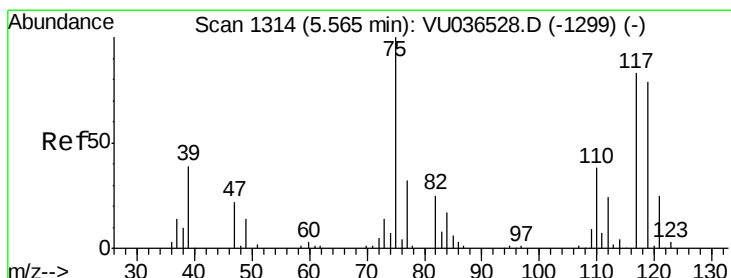
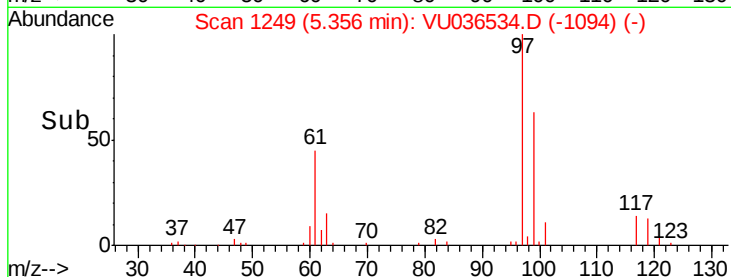
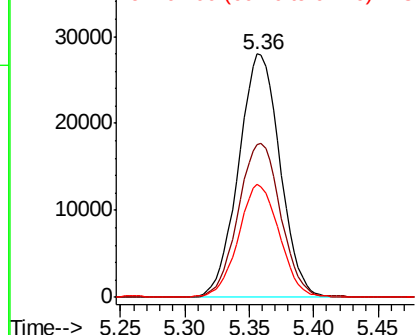
#28
 1,1,1-Trichloroethane
 Concen: 4.498 ug/l
 RT: 5.36 min Scan# 1249
 Delta R.T. -0.00 min
 Lab File: VU036534.D
 Acq: 23 Jan 2020 12:08

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 97 Resp: 62623
 Ion Ratio Lower Upper
 97 100
 99 65.0 32.1 96.3
 61 46.0 22.7 68.0

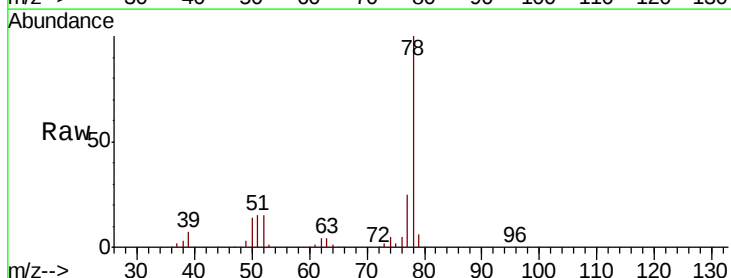


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0

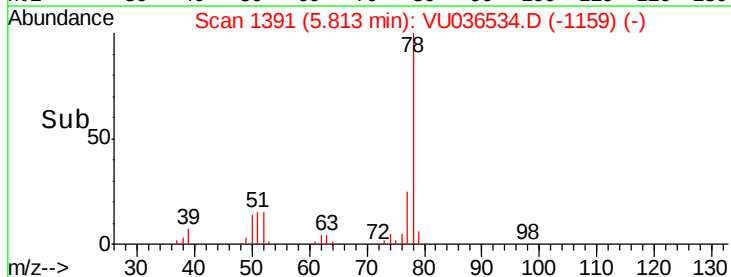
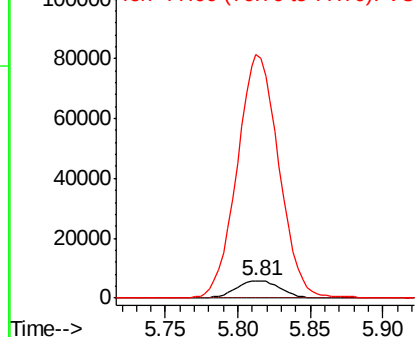


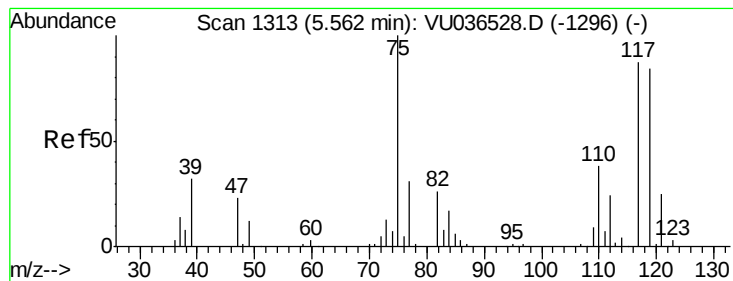
#29
 1,1-Dichloropropene
 Concen: 0.904 ug/l
 RT: 5.81 min Scan# 1391
 Delta R.T. 0.25 min
 Lab File: VU036534.D
 Acq: 23 Jan 2020 12:08

Tgt Ion: 75 Resp: 12280
 Ion Ratio Lower Upper
 75 100
 110 0.0 18.6 55.8#
 77 1329.6 25.0 37.4#



Abundance Ion 75.00 (74.70 to 75.70): VU0
 Ion 110.00 (109.70 to 110.70): V
 Ion 77.00 (76.70 to 77.70): VU0





#30

Carbon Tetrachloride

Concen: 6.279 ug/l

RT: 5.56 min Scan# 1313

Delta R.T. -0.00 min

Lab File: VU036534.D

Acq: 23 Jan 2020 12:08

Instrument :

MSVOA_U

ClientSampleId :

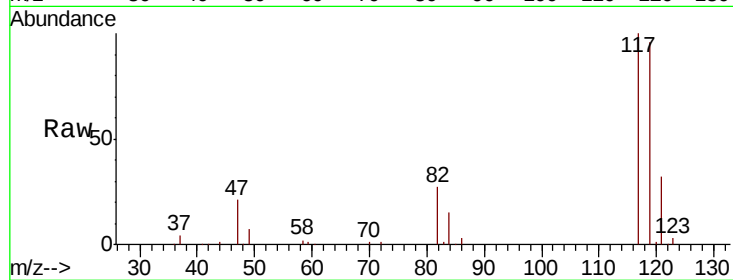
Tot Ion:117 Resp: 74854

Ion Ratio Lower Upper

117 100

119 96.4 77.0 115.6

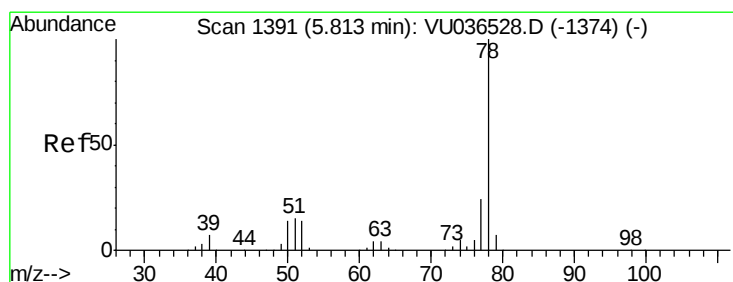
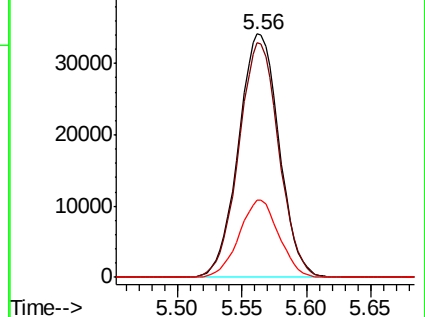
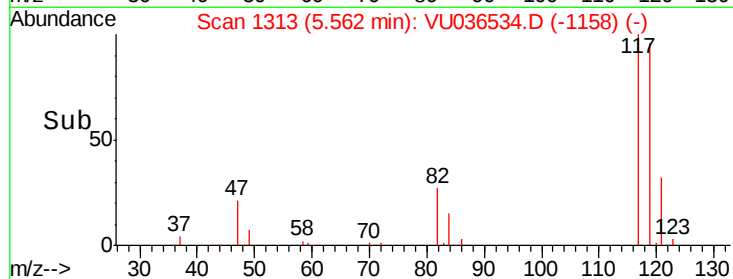
121 31.5 23.3 34.9



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#35

Benzene

Concen: 17.122 ug/l

RT: 5.82 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VU036534.D

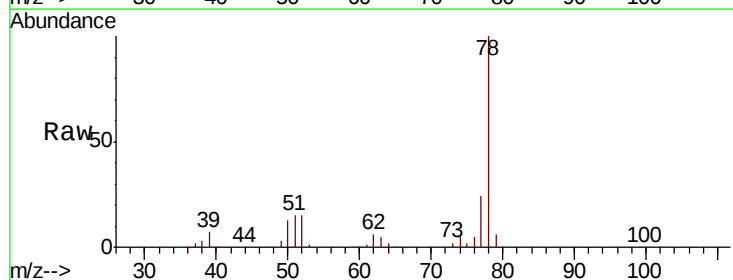
Acq: 23 Jan 2020 12:08

Tgt Ion: 78 Resp: 673674

Ion Ratio Lower Upper

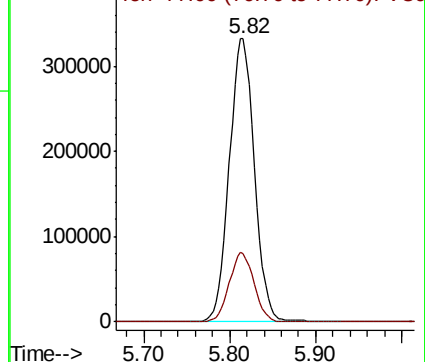
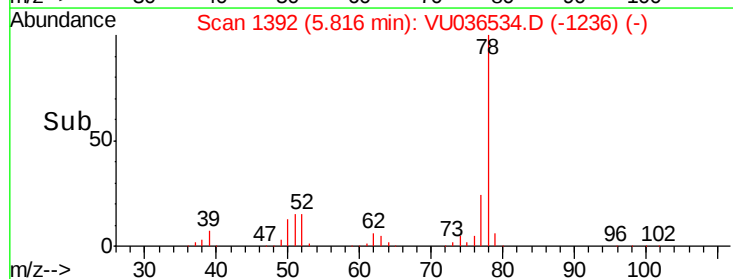
78 100

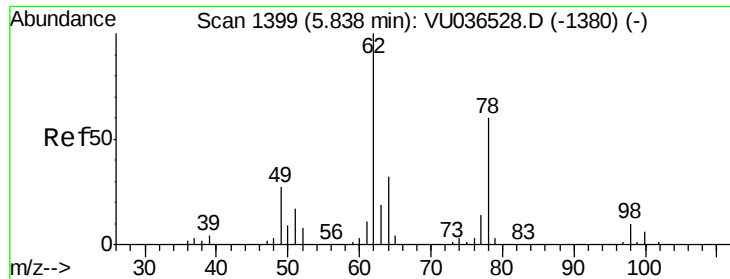
77 24.1 19.4 29.0



Abundance Ion 78.10 (77.80 to 78.80): VU0

Ion 77.00 (76.70 to 77.70): VU0

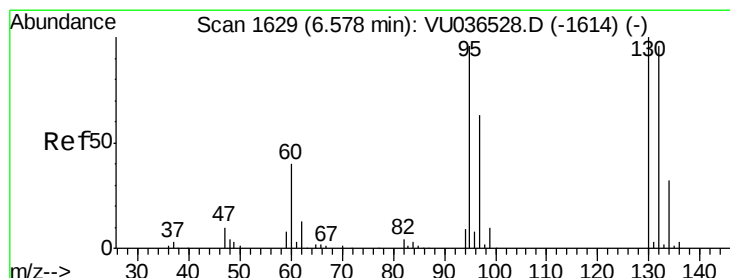
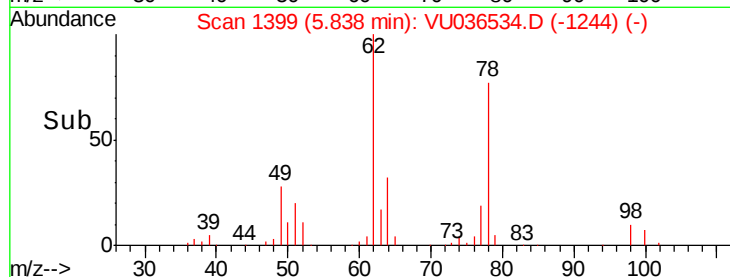
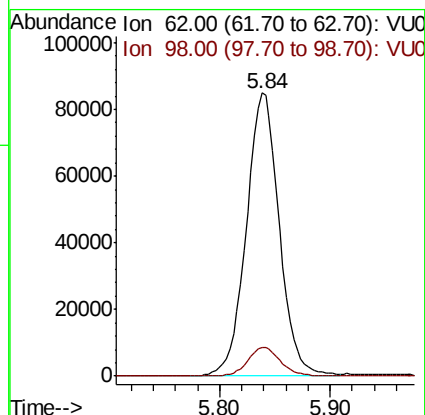
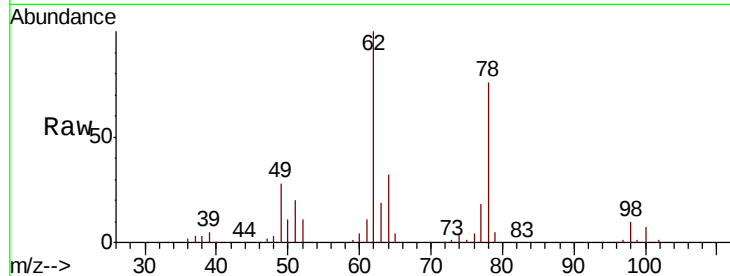




#36
 1,2-Dichloroethane
 Concen: 16.613 ug/l
 RT: 5.84 min Scan# 1399
 Delta R.T. -0.00 min
 Lab File: VU036534.D
 Acq: 23 Jan 2020 12:08

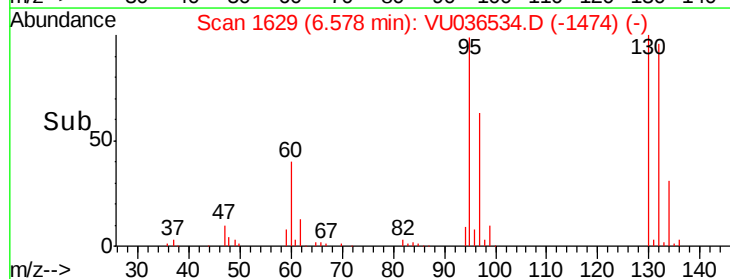
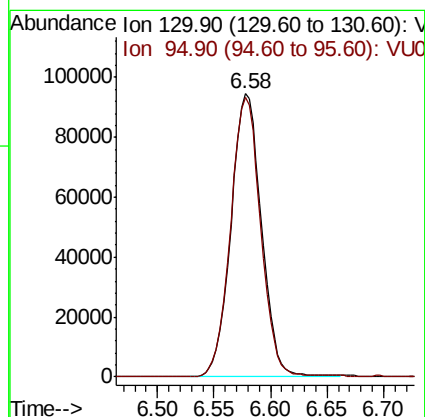
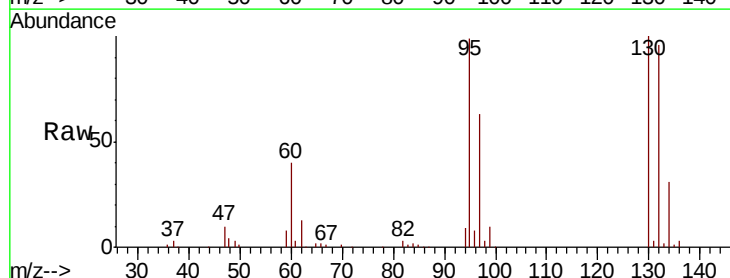
Instrument :
 MSVOA_U
 ClientSampleId :

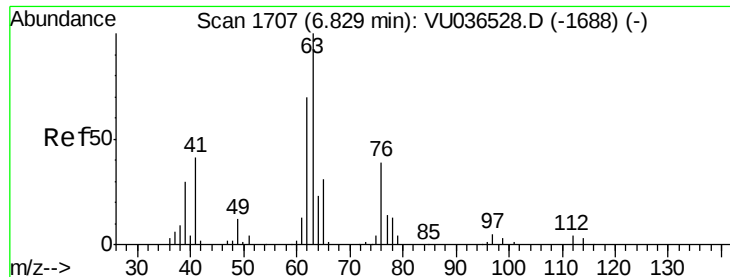
Tot Ion: 62 Resp: 175954
 Ion Ratio Lower Upper
 62 100
 98 10.0 7.8 11.8



#37
 Trichloroethene
 Concen: 16.300 ug/l
 RT: 6.58 min Scan# 1629
 Delta R.T. -0.00 min
 Lab File: VU036534.D
 Acq: 23 Jan 2020 12:08

Tgt Ion:130 Resp: 177052
 Ion Ratio Lower Upper
 130 100
 95 98.9 77.0 115.4

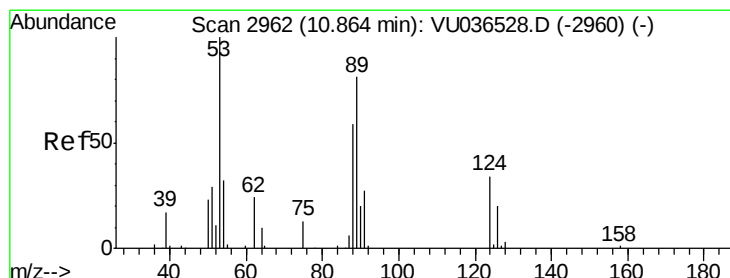
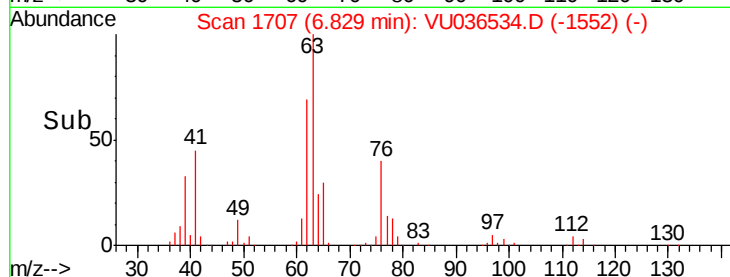
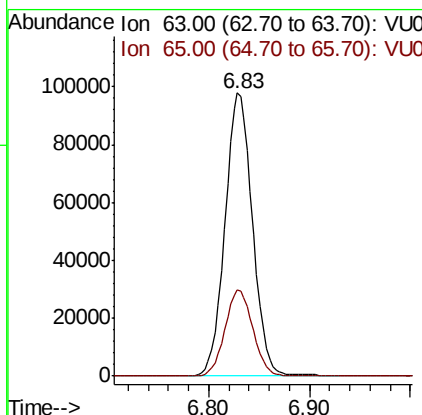
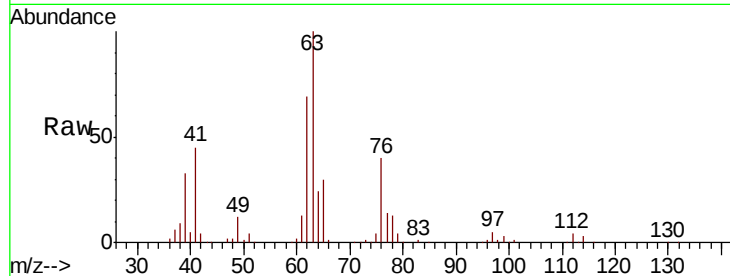




#38
 1,2-Dichloropropane
 Concen: 18.793 ug/l
 RT: 6.83 min Scan# 1707
 Delta R.T. -0.00 min
 Lab File: VU036534.D
 Acq: 23 Jan 2020 12:08

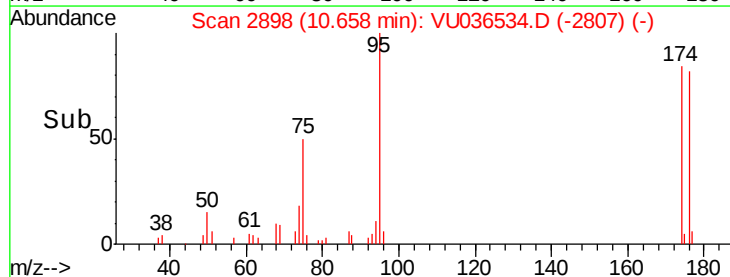
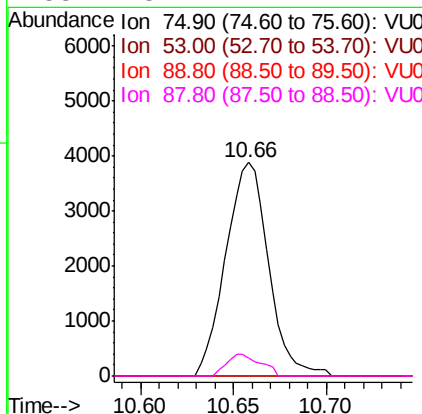
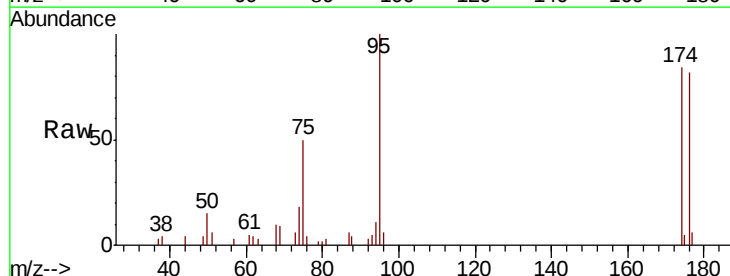
Instrument :
 MSVOA_U
 ClientSampled :

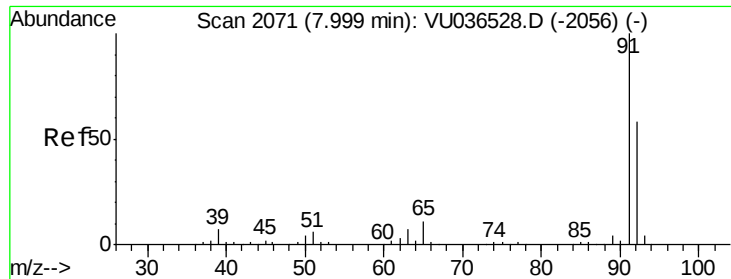
Tot Ion: 63 Resp: 185907
 Ion Ratio Lower Upper
 63 100
 65 30.4 24.7 37.1



#46
 t-1,4-Dichloro-2-butene
 Concen: 2.428 ug/l
 RT: 10.66 min Scan# 2898
 Delta R.T. -0.21 min
 Lab File: VU036534.D
 Acq: 23 Jan 2020 12:08

Tgt Ion: 75 Resp: 6221
 Ion Ratio Lower Upper
 75 100
 53 0.0 52.2 78.2#
 89 0.0 39.8 59.6#
 88 8.1 27.4 41.2#





#49

Toluene

Concen: 8.744 ug/l

RT: 8.00 min Scan# 2071

Delta R.T. -0.00 min

Lab File: VU036534.D

Acq: 23 Jan 2020 12:08

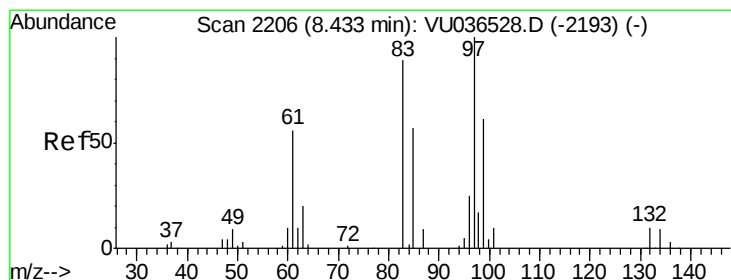
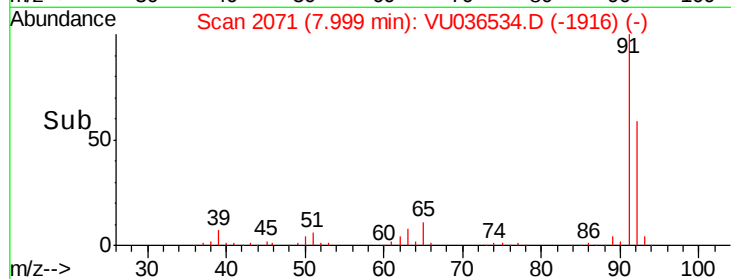
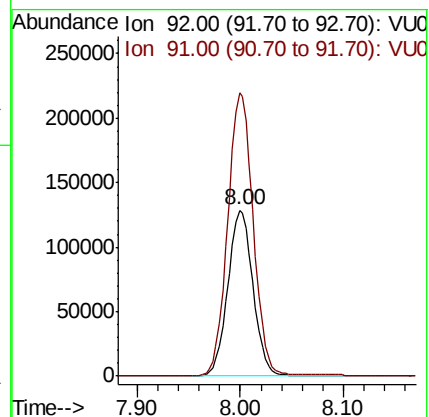
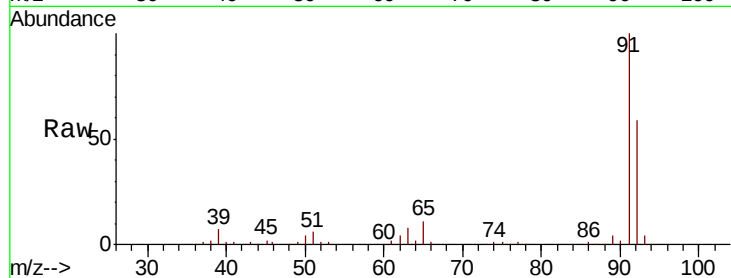
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 92 Resp: 219594

Ion Ratio Lower Upper

92 100

91 172.7 139.1 208.7



#52

1,1,2-Trichloroethane

Concen: 8.178 ug/l

RT: 8.43 min Scan# 2206

Delta R.T. -0.00 min

Lab File: VU036534.D

Acq: 23 Jan 2020 12:08

Tgt Ion: 97 Resp: 59911

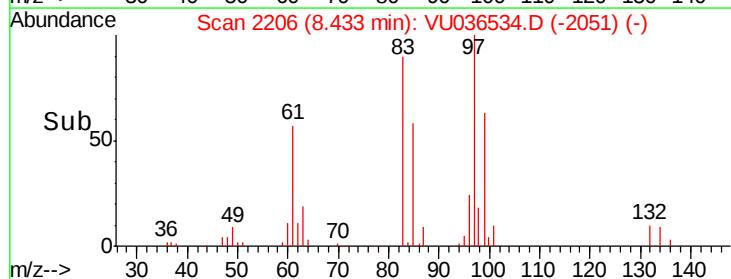
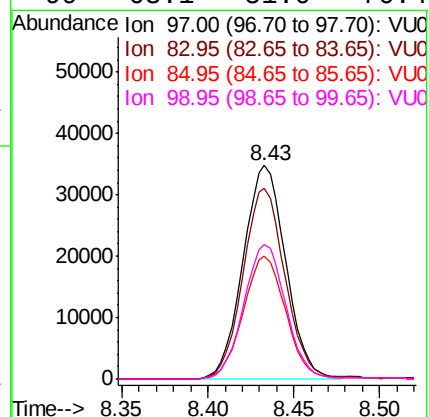
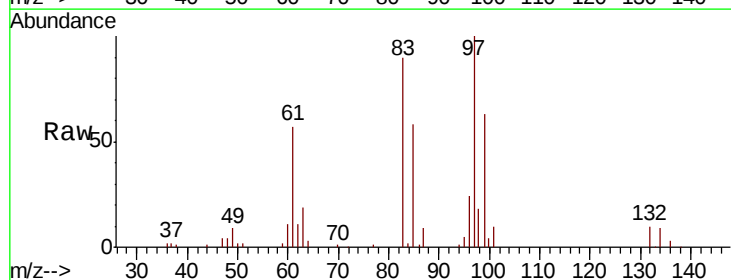
Ion Ratio Lower Upper

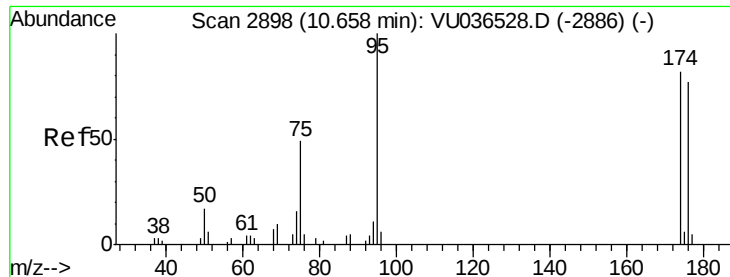
97 100

83 89.6 70.9 106.3

85 57.6 45.6 68.4

99 63.1 51.0 76.4

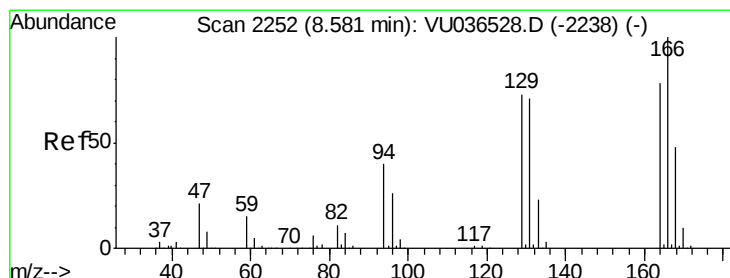
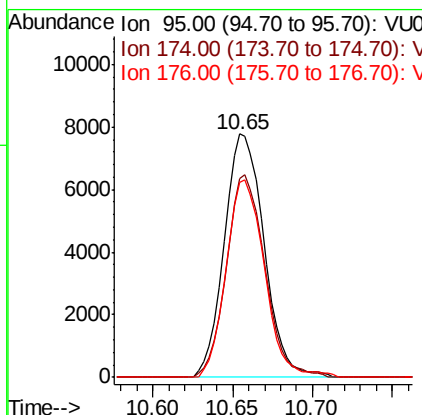
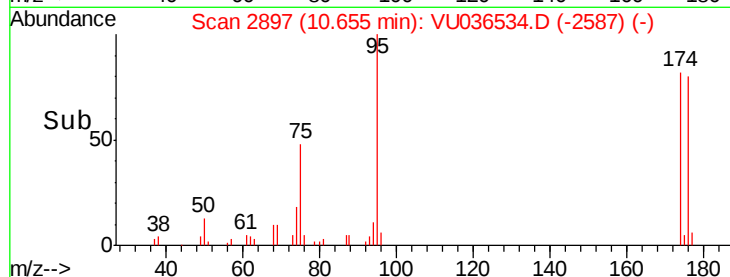
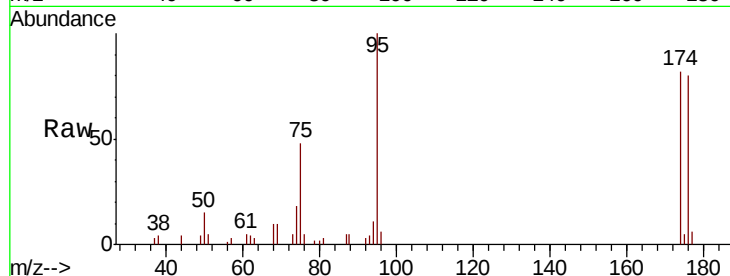




#57
4-Bromofluorobenzene
Concen: 0.989 ug/l
RT: 10.65 min Scan# 2897
Delta R.T. -0.00 min
Lab File: VU036534.D
Acq: 23 Jan 2020 12:08

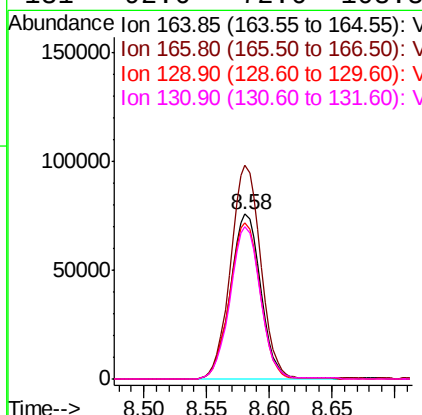
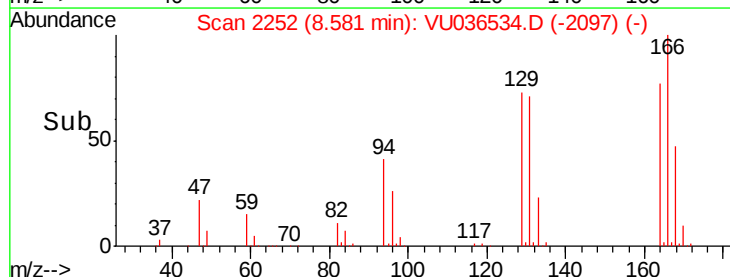
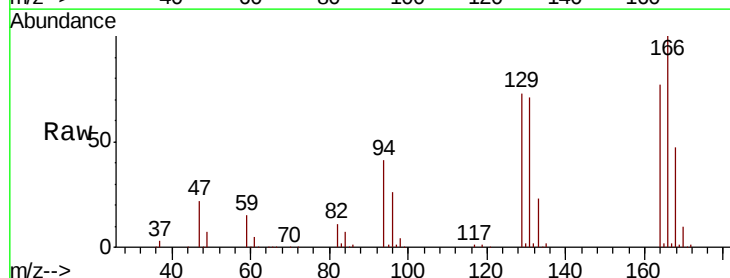
Instrument :
MSVOA_U
ClientSampled :

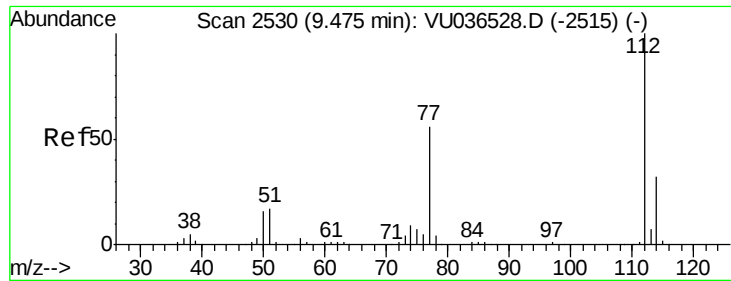
Tot Ion: 95 Resp: 13265
Ion Ratio Lower Upper
95 100
174 80.1 64.7 97.1
176 78.1 60.6 91.0



#58
Tetrachloroethene
Concen: 11.814 ug/l
RT: 8.58 min Scan# 2252
Delta R.T. -0.00 min
Lab File: VU036534.D
Acq: 23 Jan 2020 12:08

Tgt Ion: 164 Resp: 128270
Ion Ratio Lower Upper
164 100
166 129.8 102.0 153.0
129 94.9 74.9 112.3
131 92.6 72.6 108.8

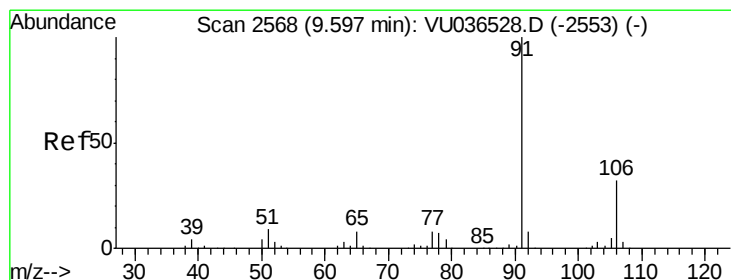
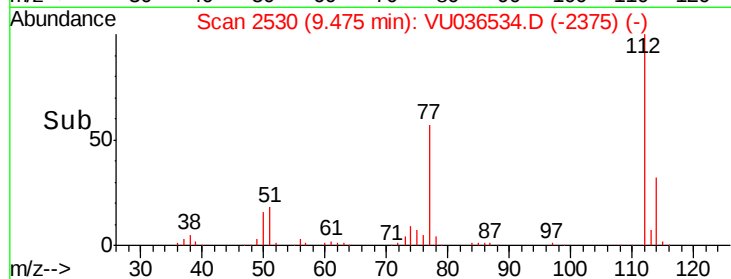
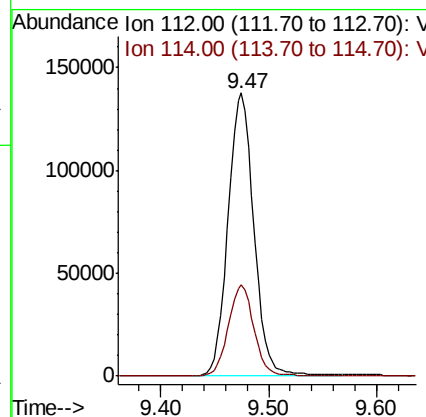
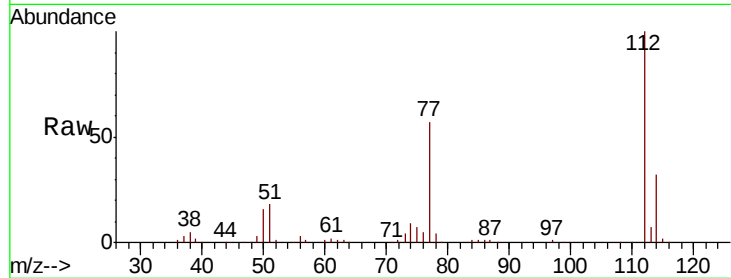




#59
Chlorobenzene
Concen: 8.264 ug/l
RT: 9.47 min Scan# 2530
Delta R.T. -0.00 min
Lab File: VU036534.D
Acq: 23 Jan 2020 12:08

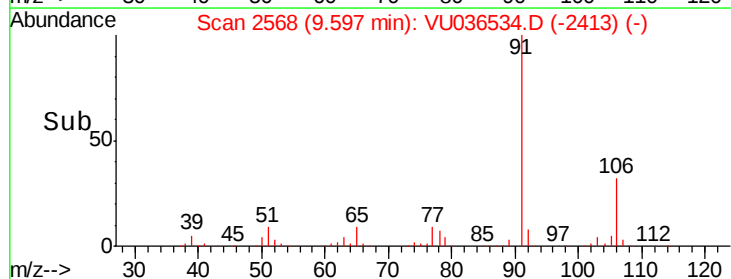
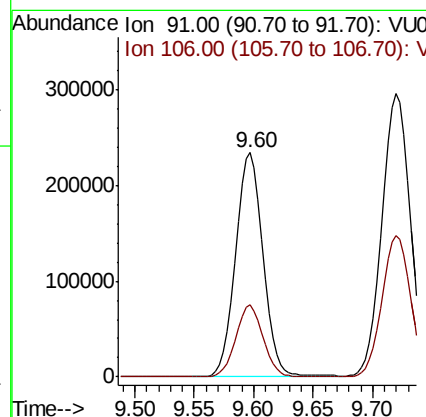
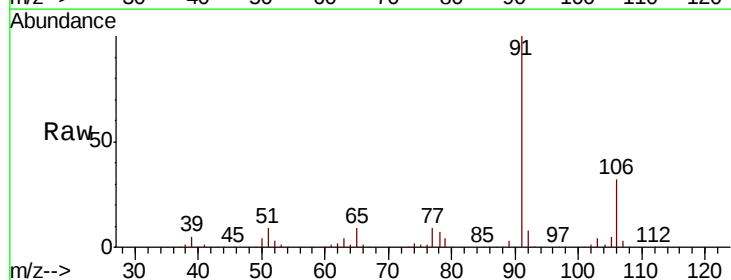
Instrument :
MSVOA_U
ClientSampled :

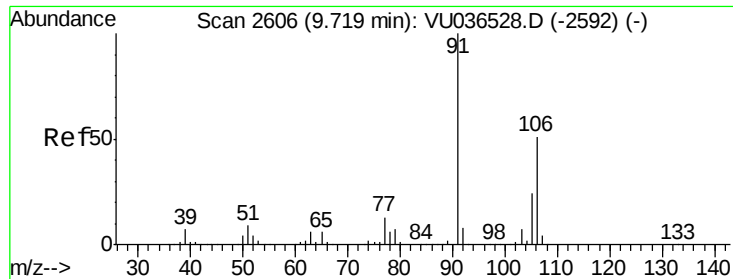
Tot Ion: 112 Resp: 231198
Ion Ratio Lower Upper
112 100
114 32.2 25.8 38.8



#63
Ethyl Benzene
Concen: 8.026 ug/l
RT: 9.60 min Scan# 2568
Delta R.T. -0.00 min
Lab File: VU036534.D
Acq: 23 Jan 2020 12:08

Tgt Ion: 91 Resp: 376312
Ion Ratio Lower Upper
91 100
106 31.9 26.0 39.0

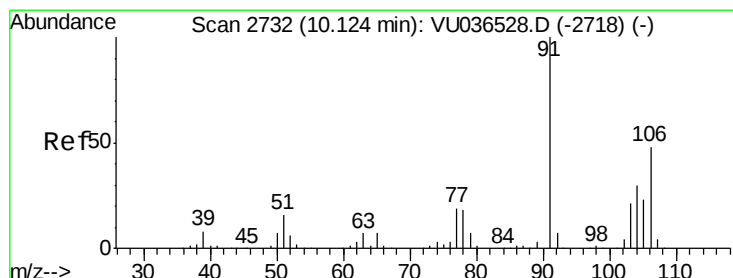
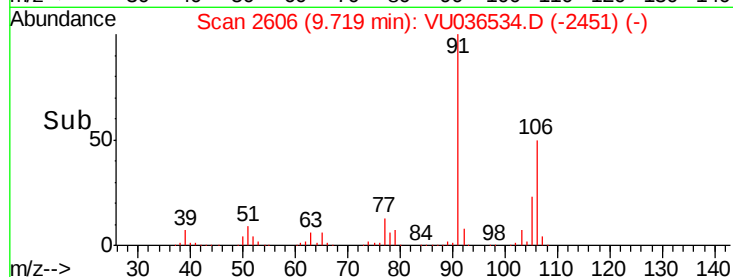
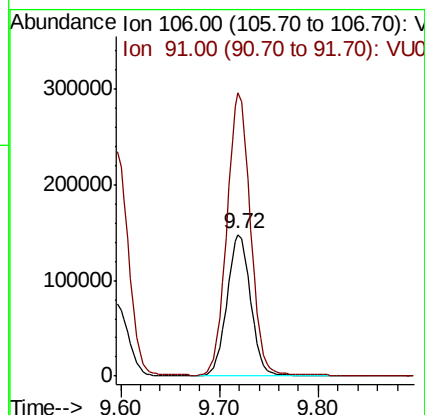
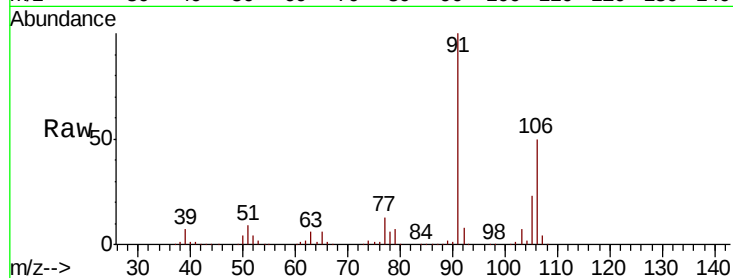




#64
m/p-Xylenes
Concen: 13.364 ug/l
RT: 9.72 min Scan# 2606
Delta R.T. -0.00 min
Lab File: VU036534.D
Acq: 23 Jan 2020 12:08

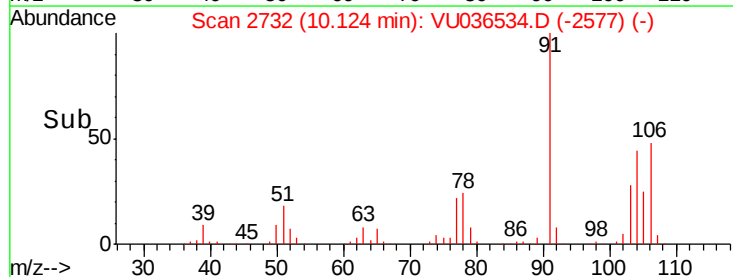
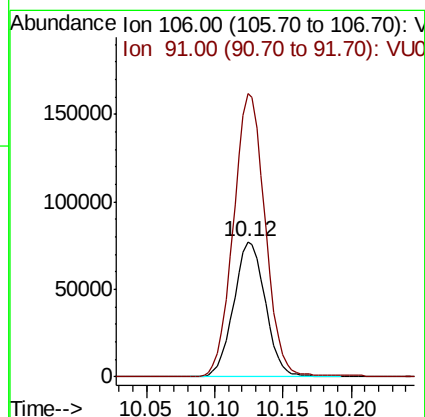
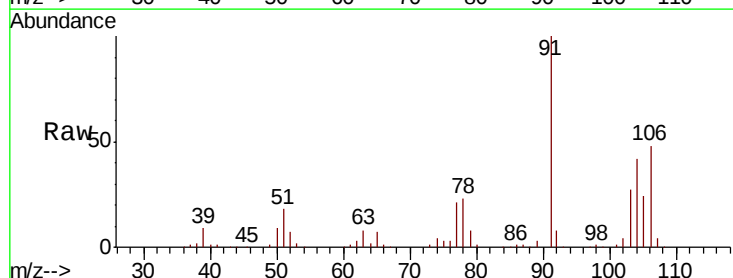
Instrument :
MSVOA_U
ClientSampleId :

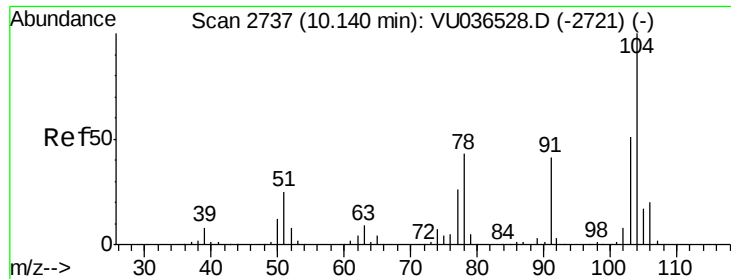
Tot Ion:106 Resp: 248023
Ion Ratio Lower Upper
106 100
91 199.8 158.2 237.4



#65
o-Xylene
Concen: 6.950 ug/l
RT: 10.12 min Scan# 2732
Delta R.T. -0.00 min
Lab File: VU036534.D
Acq: 23 Jan 2020 12:08

Tgt Ion:106 Resp: 124900
Ion Ratio Lower Upper
106 100
91 210.8 104.3 312.9

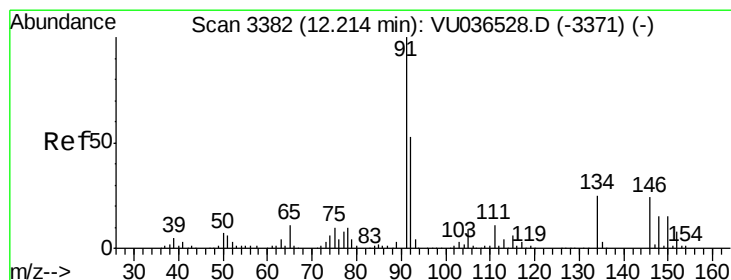
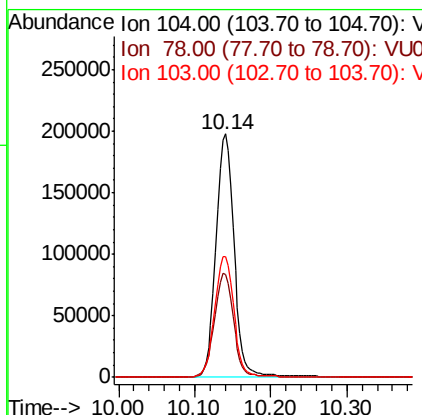
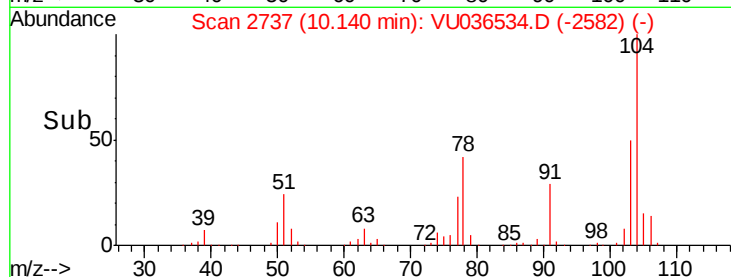
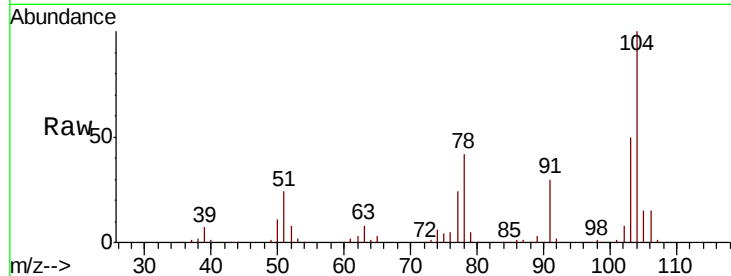




#66
Stvrene
Concen: 10.908 ug/l
RT: 10.14 min Scan# 2737
Delta R.T. -0.00 min
Lab File: VU036534.D
Acq: 23 Jan 2020 12:08

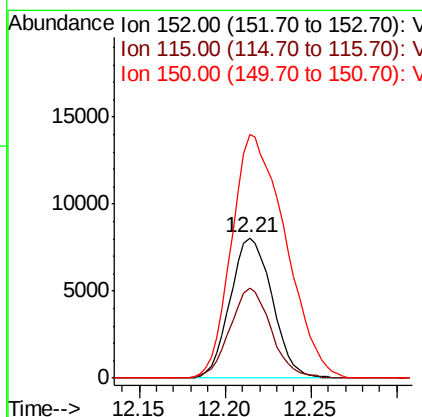
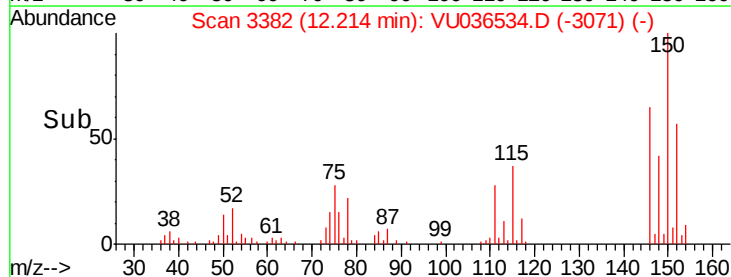
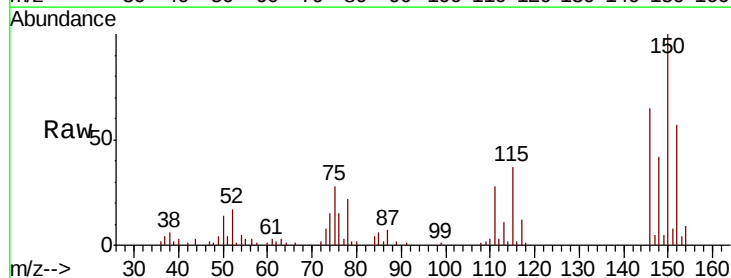
Instrument :
MSVOA_U
ClientSampled :

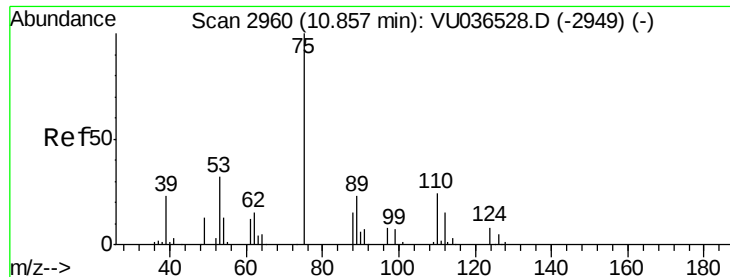
Tot Ion	Ratio	Lower	Upper
104	100		
78	45.1	38.6	57.8
103	53.0	44.4	66.6



#68
1,2-Dichlorobenzene-d4
Concen: 1.001 ug/l
RT: 12.21 min Scan# 3382
Delta R.T. -0.00 min
Lab File: VU036534.D
Acq: 23 Jan 2020 12:08

Tgt Ion	Ratio	Lower	Upper
152	100		
115	62.6	0.0	241.8
150	221.4	0.0	652.4

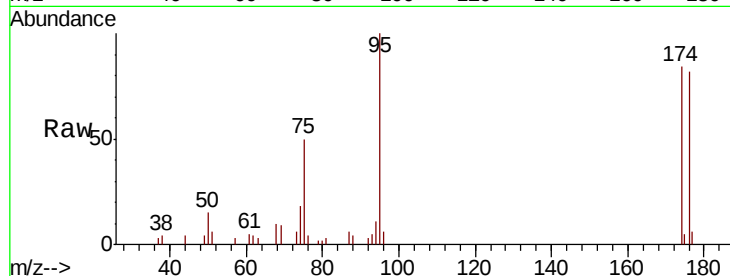




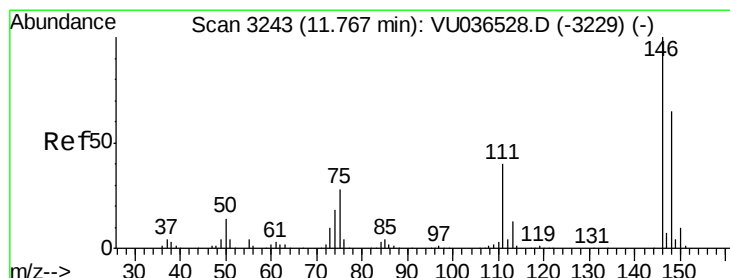
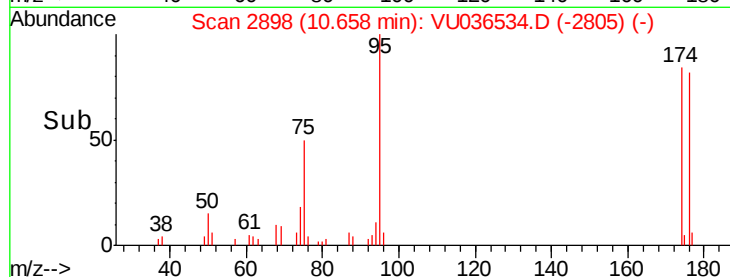
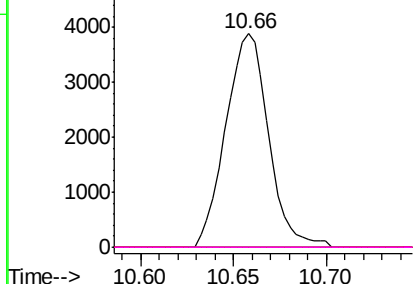
#71
 1,2,3-Trichloropropane
 Concen: 0.943 ug/l
 RT: 10.66 min Scan# 2898
 Delta R.T. -0.20 min
 Lab File: VU036534.D
 Acq: 23 Jan 2020 12:08

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	75	Resp:	6221
Ion	Ratio	Lower	Upper
75	100		
77	0.7	0.0	129.6
110	0.0	0.0	77.4
97	0.0	0.0	42.0

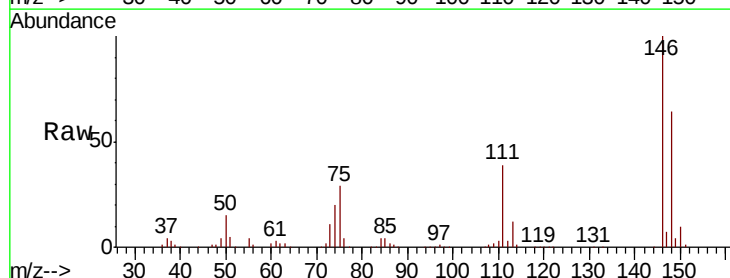


Abundance Ion 75.00 (74.70 to 75.70): VU036534.D (-2898) (-)
 Ion 77.00 (76.70 to 77.70): VU036534.D (-2898) (-)
 Ion 110.00 (109.70 to 110.70): VU036534.D (-2898) (-)
 Ion 97.00 (96.70 to 97.70): VU036534.D (-2898) (-)

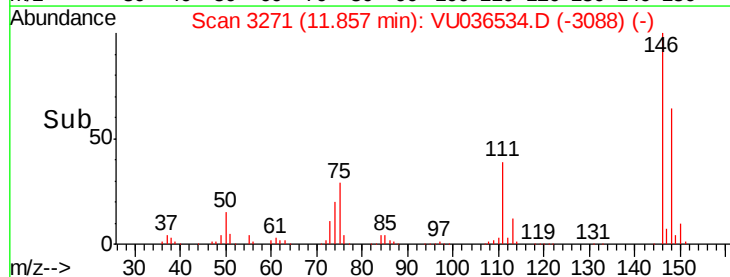
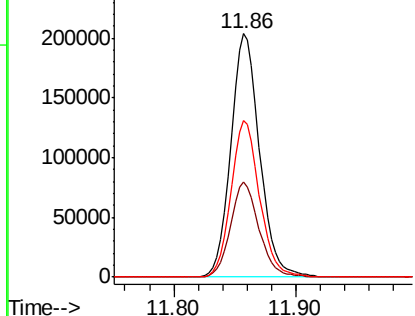


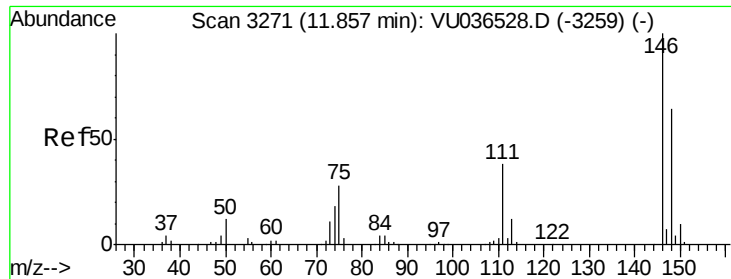
#82
 1,3-Dichlorobenzene
 Concen: 14.693 ug/l
 RT: 11.86 min Scan# 3271
 Delta R.T. 0.09 min
 Lab File: VU036534.D
 Acq: 23 Jan 2020 12:08

Tgt Ion:	146	Resp:	334372
Ion	Ratio	Lower	Upper
146	100		
111	38.5	32.2	48.2
148	64.0	51.4	77.2



Abundance Ion 146.00 (145.70 to 146.70): VU036534.D (-3243) (-)
 Ion 111.00 (110.70 to 111.70): VU036534.D (-3243) (-)
 Ion 148.00 (147.70 to 148.70): VU036534.D (-3243) (-)

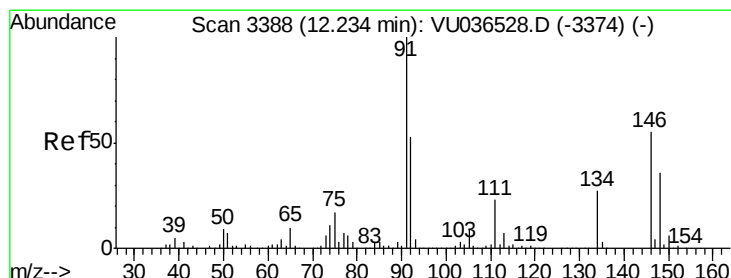
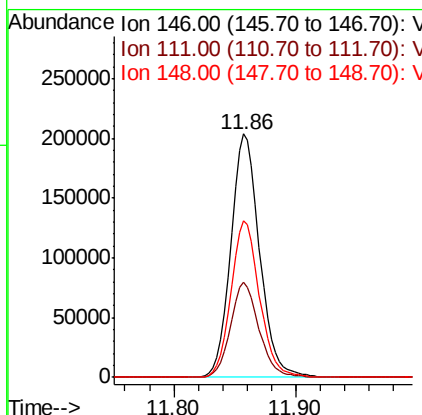
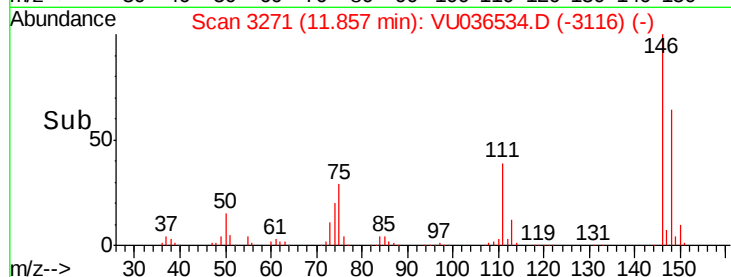
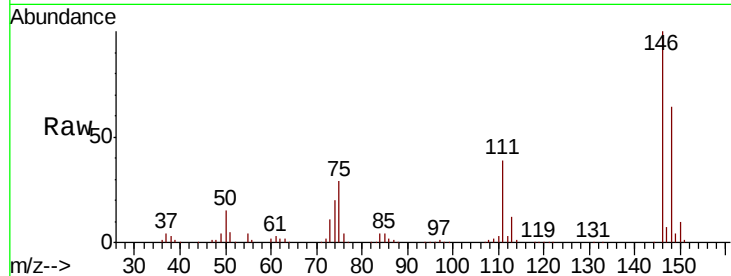




#83
 1,4-Dichlorobenzene
 Concen: 14.701 ug/l
 RT: 11.86 min Scan# 3271
 Delta R.T. -0.00 min
 Lab File: VU036534.D
 Acq: 23 Jan 2020 12:08

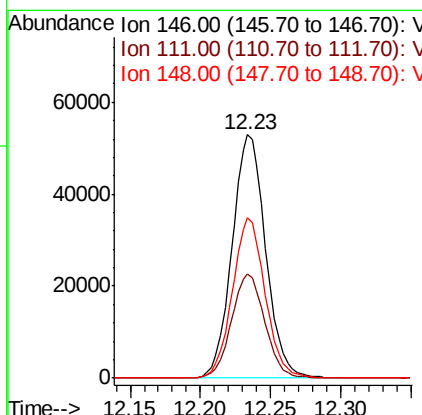
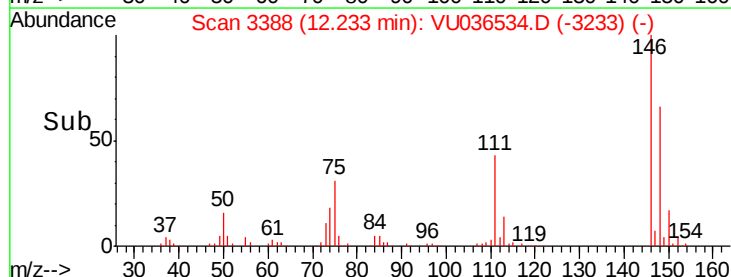
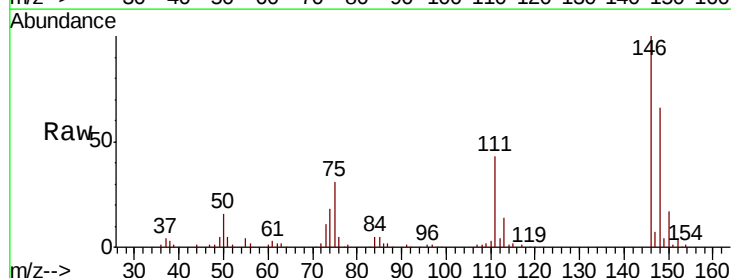
Instrument :
 MSVOA_U
 ClientSampled :

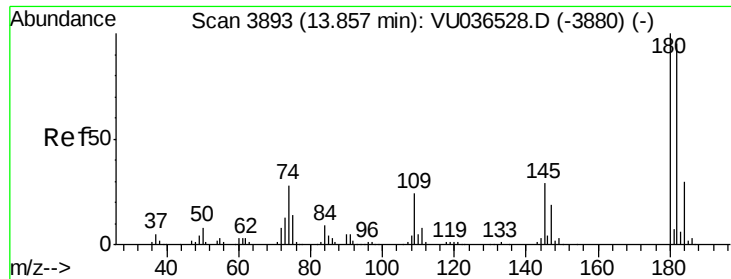
Tot Ion:146 Resp: 334372
 Ion Ratio Lower Upper
 146 100
 111 38.5 30.5 45.7
 148 64.0 51.0 76.4



#85
 1,2-Dichlorobenzene
 Concen: 4.042 ug/l
 RT: 12.23 min Scan# 3388
 Delta R.T. -0.00 min
 Lab File: VU036534.D
 Acq: 23 Jan 2020 12:08

Tgt Ion:146 Resp: 88017
 Ion Ratio Lower Upper
 146 100
 111 42.4 20.8 62.4
 148 64.4 32.0 96.2

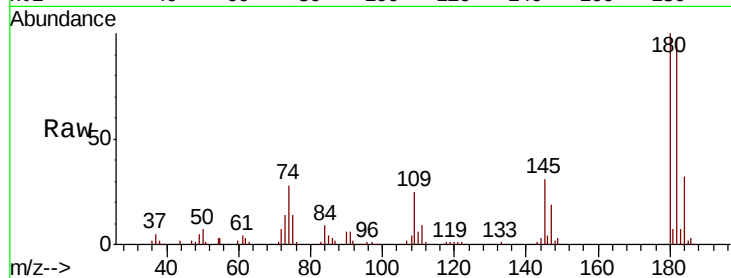




#87
 1,2,4-Trichlorobenzene
 Concen: 4.895 ug/l
 RT: 13.86 min Scan# 3894
 Delta R.T. 0.00 min
 Lab File: VU036534.D
 Acq: 23 Jan 2020 12:08

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.2	75.9	113.9
145	30.6	23.4	35.2



Abundance Ion 179.70 (179.40 to 180.40): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

