

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU012320\
 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 :
 PT-RVOA-WS

Quant Time: Jan 24 01:26:57 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

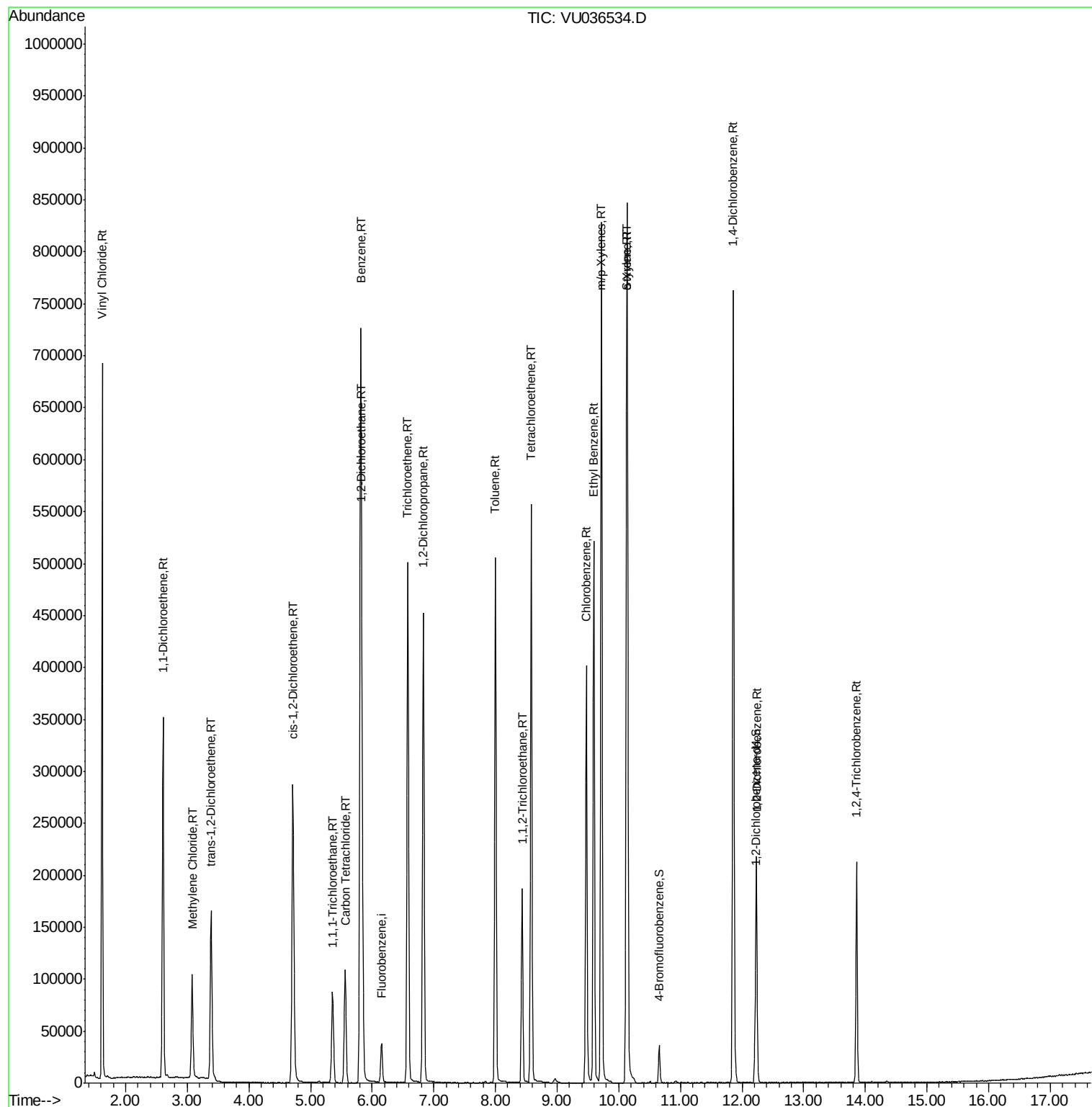
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	6.15	96	35508	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.65	95	13265	0.99	ug/l	0.00
Spiked Amount 1.000			Recovery	=	99.00%	
68) 1,2-Dichlorobenzene-d4	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
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
22) cis-1,2-Dichloroethene	4.71	96	156254	14.622	ug/l	92
28) 1,1,1-Trichloroethane	5.36	97	62623	4.498	ug/l	99
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
49) Toluene	8.00	92	219594	8.744	ug/l	99
52) 1,1,2-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
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
-----	-----	-----	-----	-----	-----	-----

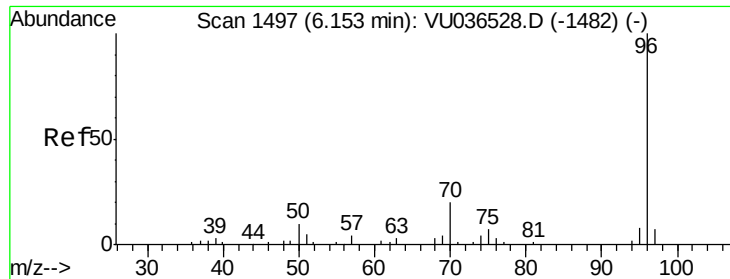
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jan 23 08:59:25 2020
Response via : Initial Calibration





#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

ClientSampleId :

PT-RVOA-WS

Tot Ion: 96 Resp: 35508

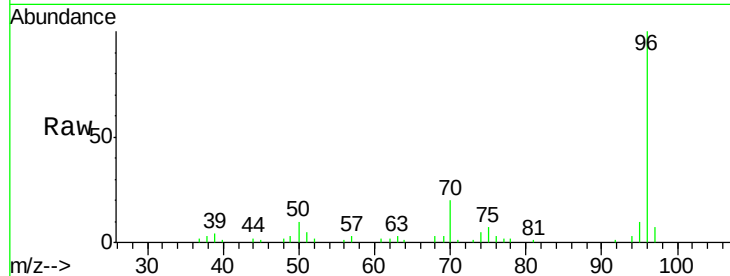
Ion Ratio Lower Upper

96 100

70 18.7 15.6 23.4

95 0.0 7.0 10.6#

97 6.9 0.0 0.0#

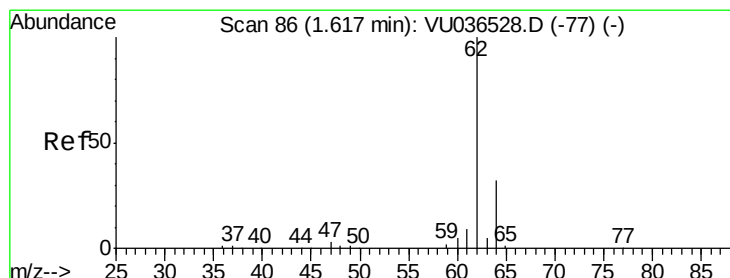
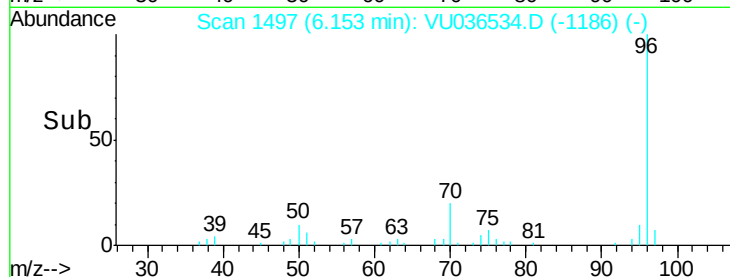
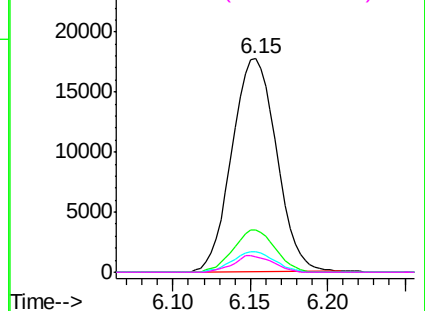


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0



#4

Vinyl Chloride

Concen: 32.048 ug/l

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU036534.D

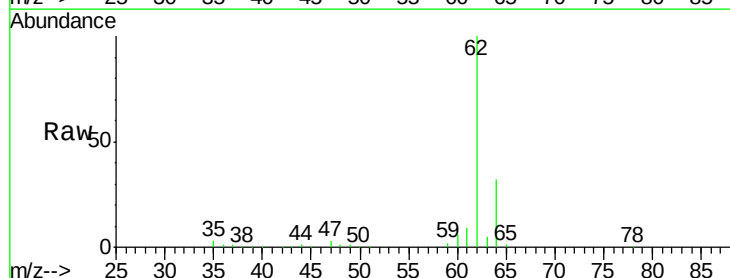
Acq: 23 Jan 2020 12:08

Tgt Ion: 62 Resp: 456764

Ion Ratio Lower Upper

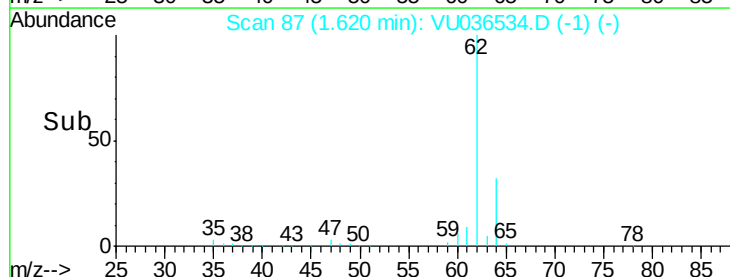
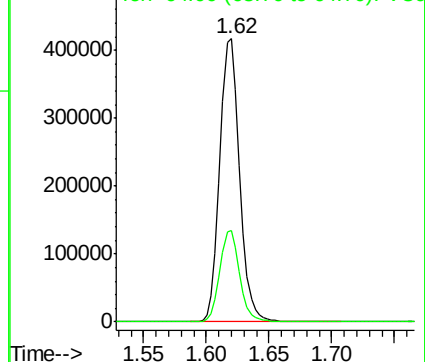
62 100

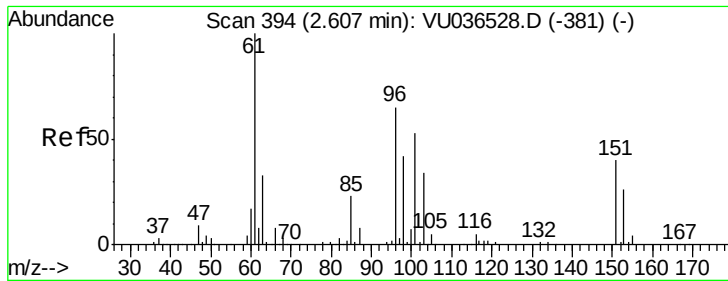
64 32.3 25.4 38.2



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0





#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

ClientSampleId :

PT-RVOA-WS

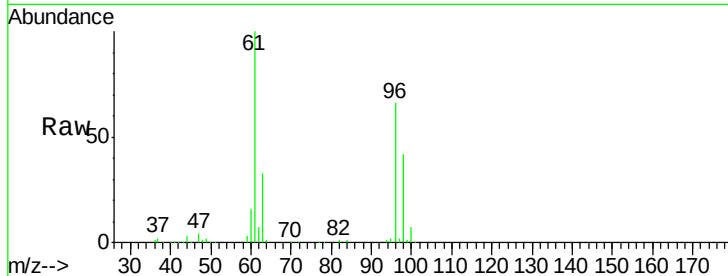
Tot Ion: 96 Resp: 123540

Ion Ratio Lower Upper

96 100

61 152.4 0.0 463.2

98 63.6 0.0 130.0

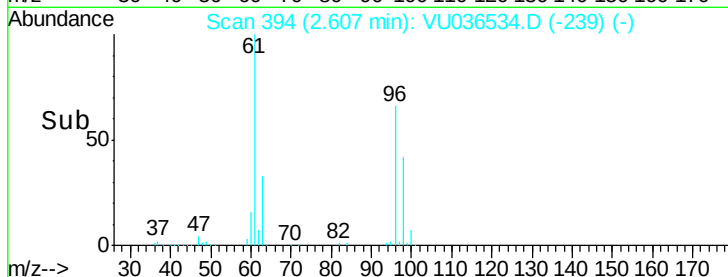


Abundance Ion 96.00 (95.70 to 96.70): VU036528.D (-381) (-)

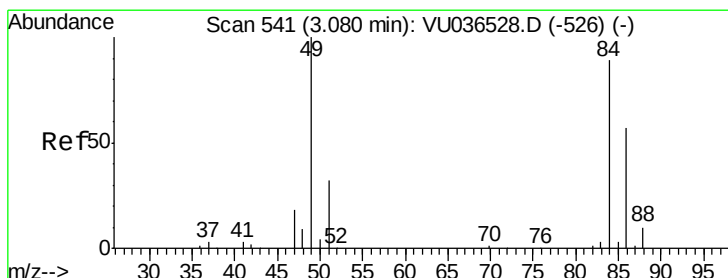
Ion 61.00 (60.70 to 61.70): VU036528.D (-381) (-)

Ion 98.00 (97.70 to 98.70): VU036528.D (-381) (-)

Time-->



Time-->



#15

Methylene 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

Tgt Ion: 84 Resp: 50362

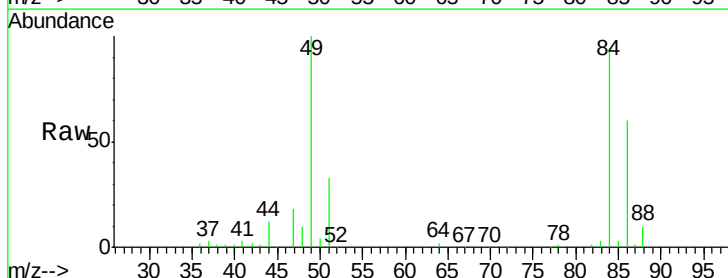
Ion Ratio Lower Upper

84 100

49 106.1 89.7 134.5

51 34.6 0.0 71.6

86 63.1 51.4 77.2



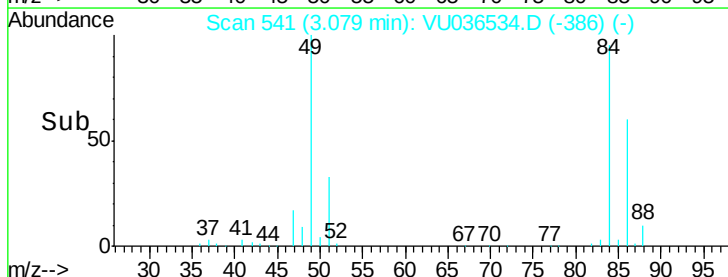
Abundance Ion 84.00 (83.70 to 84.70): VU036528.D (-526) (-)

Ion 49.00 (48.70 to 49.70): VU036528.D (-526) (-)

Ion 51.00 (50.70 to 51.70): VU036528.D (-526) (-)

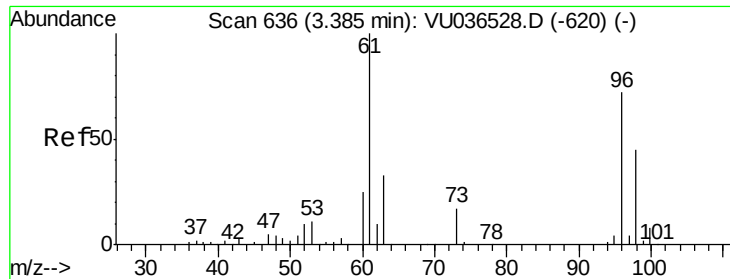
Ion 86.00 (85.70 to 86.70): VU036528.D (-526) (-)

Time-->



Time-->

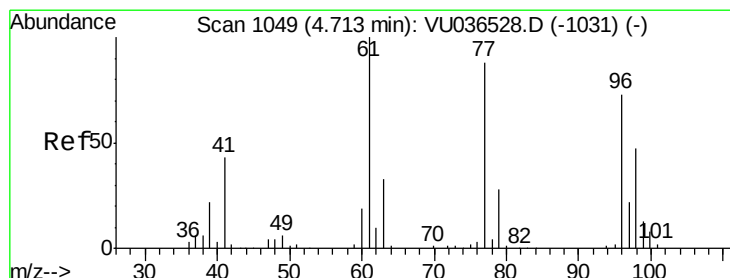
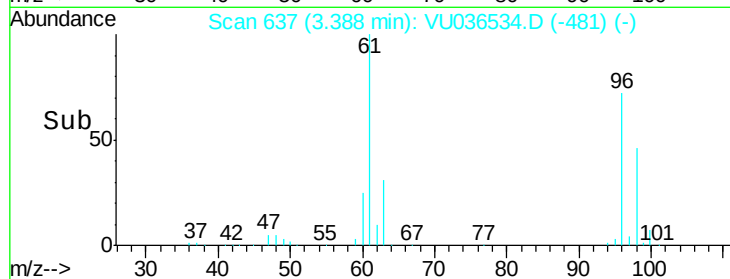
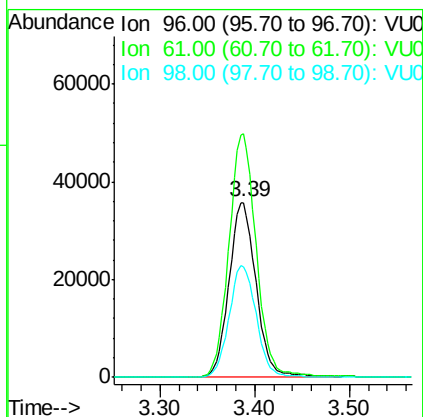
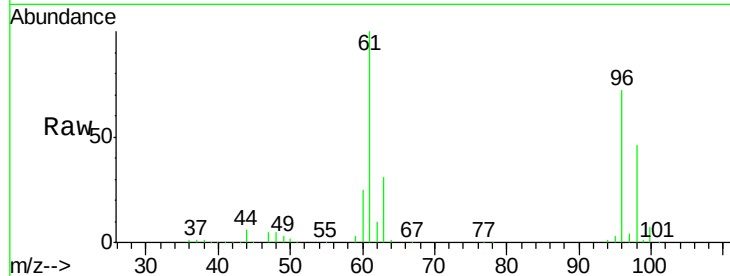
Time-->



#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

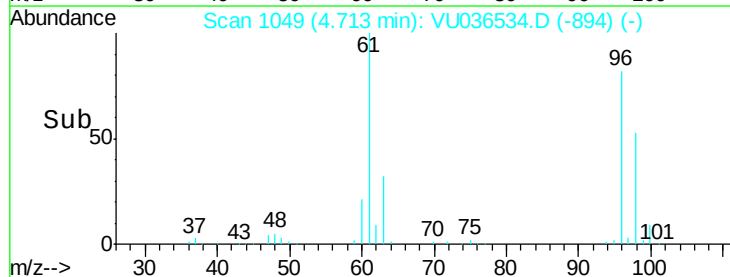
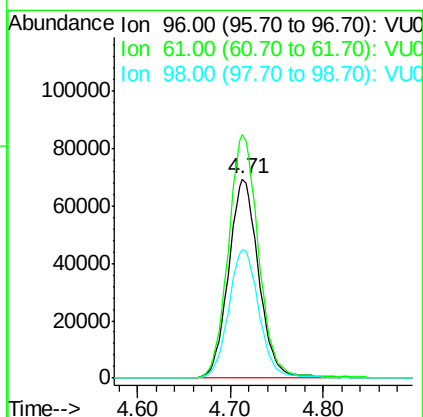
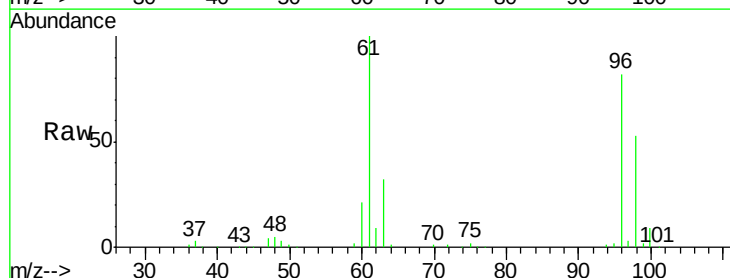
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WS

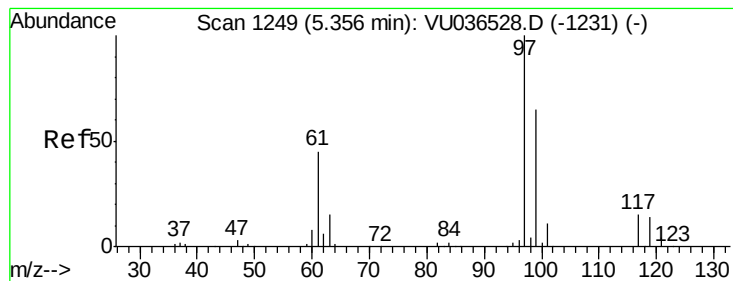
Tot Ion: 96 Resp: 71457
 Ion Ratio Lower Upper
 96 100
 61 139.3 110.8 166.2
 98 63.5 50.3 75.5



#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





#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 :

PT-RVOA-WS

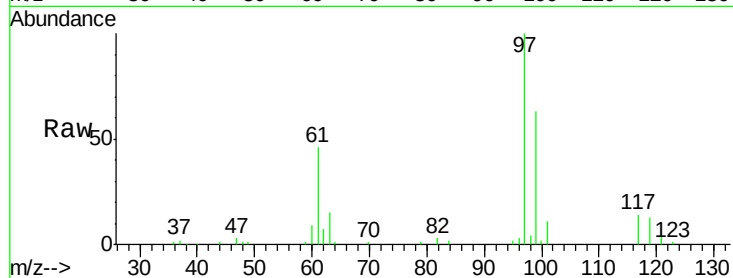
Tot Ion: 97 Resp: 62623

Ion Ratio Lower Upper

97 100

99 65.0 32.1 96.3

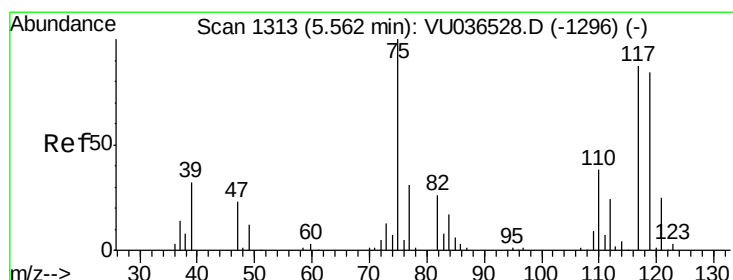
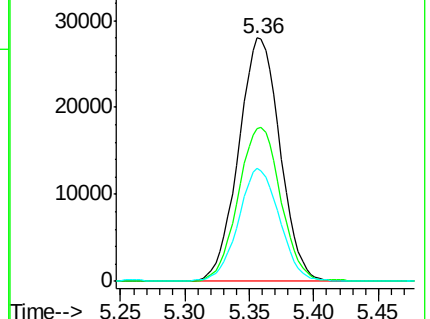
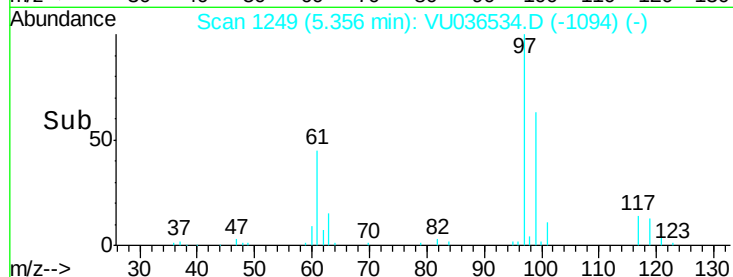
61 46.0 22.7 68.0



Abundance Ion 97.00 (96.70 to 97.70): VU036534.D (-1094) (-)

Ion 99.00 (98.70 to 99.70): VU036534.D (-1094) (-)

Ion 61.00 (60.70 to 61.70): VU036534.D (-1094) (-)



#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

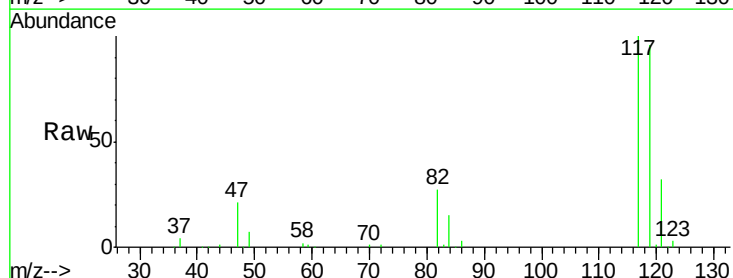
Tgt Ion: 117 Resp: 74854

Ion Ratio Lower Upper

117 100

119 96.4 77.0 115.6

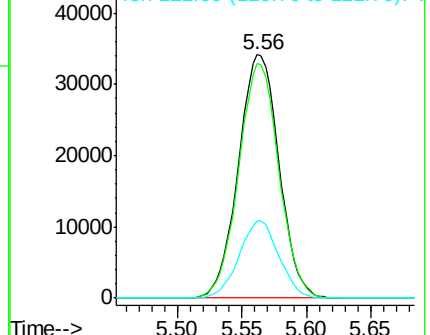
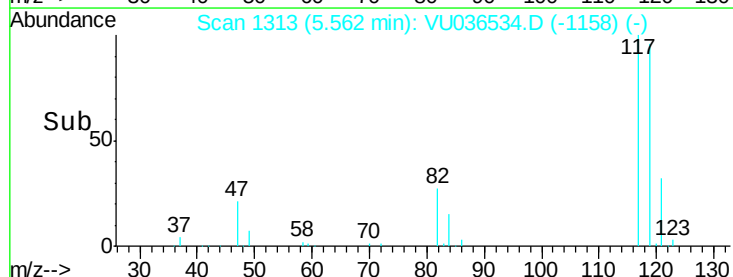
121 31.5 23.3 34.9

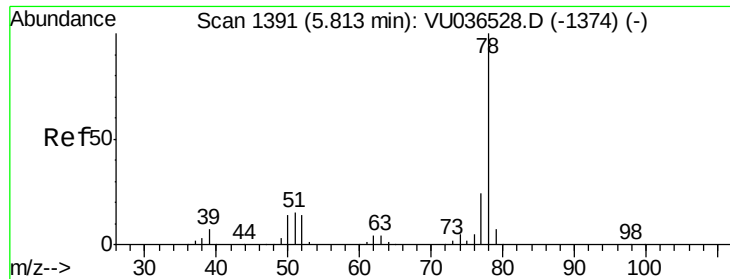


Abundance Ion 117.00 (116.70 to 117.70): VU036534.D (-1158) (-)

Ion 119.00 (118.70 to 119.70): VU036534.D (-1158) (-)

Ion 121.00 (120.70 to 121.70): VU036534.D (-1158) (-)





#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

Instrument :

MSVOA_U

ClientSampleId :

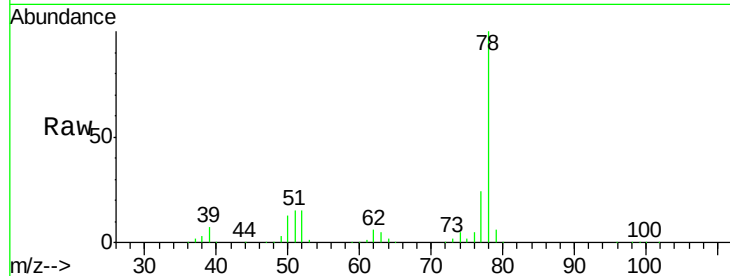
PT-RVOA-WS

Tot 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): VU036528.D (-1374) (-)

Ion 77.00 (76.70 to 77.70): VU036528.D (-1374) (-)

5.82

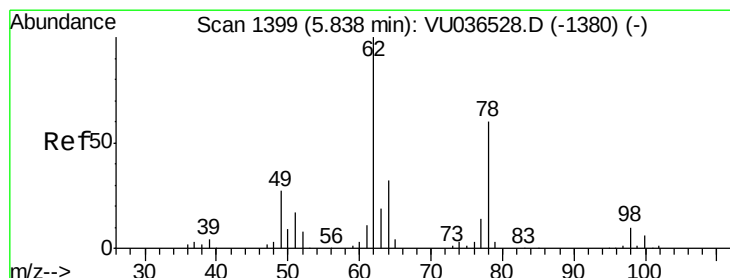
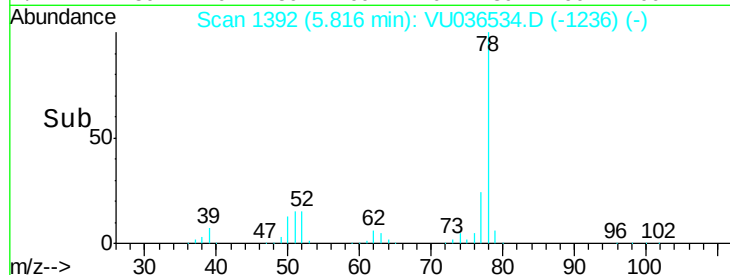
300000

200000

100000

0

Time-->



#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

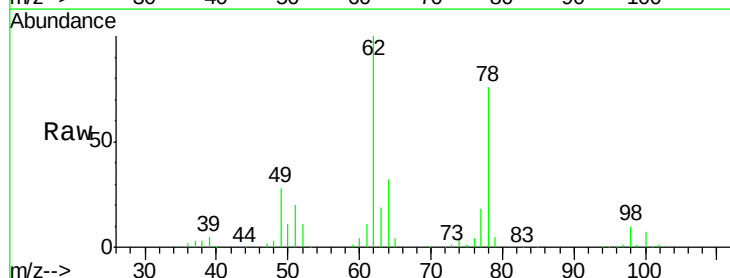
Acq: 23 Jan 2020 12:08

Tgt Ion: 62 Resp: 175954

Ion Ratio Lower Upper

62 100

98 10.0 7.8 11.8



Abundance Ion 62.00 (61.70 to 62.70): VU036528.D (-1380) (-)

Ion 98.00 (97.70 to 98.70): VU036528.D (-1380) (-)

5.84

100000

80000

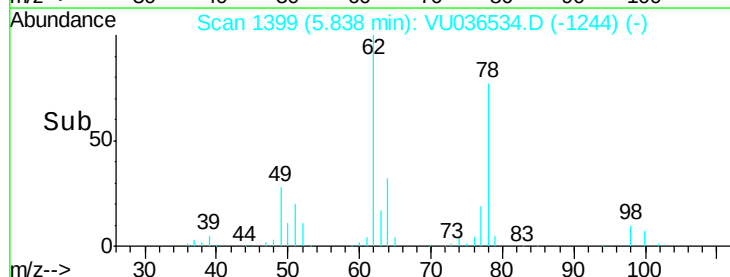
60000

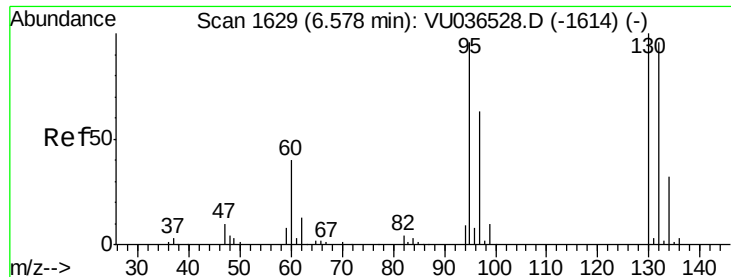
40000

20000

0

Time-->

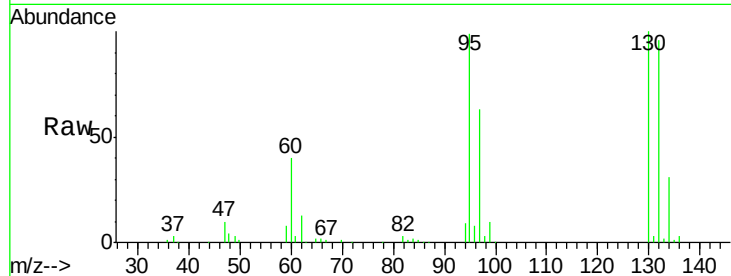




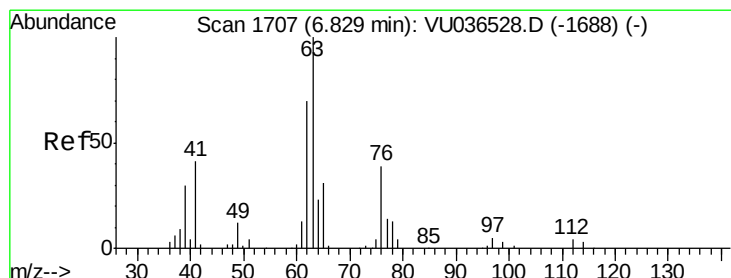
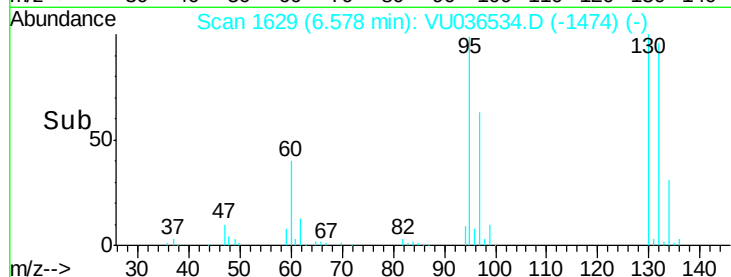
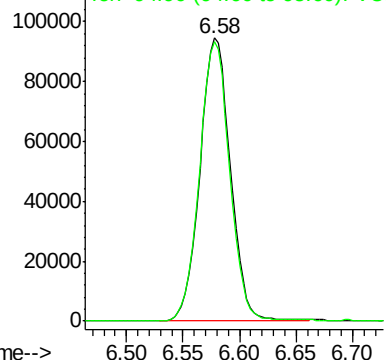
#37
 Trichloroethene
 Concen: 16.300 ug/l
 RT: 6.58 min Scan# 1629
 Delta R.T. -0.00 min
 Lab File: VU036534.D
 Acq: 23 Jan 2020 12:08

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WS

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

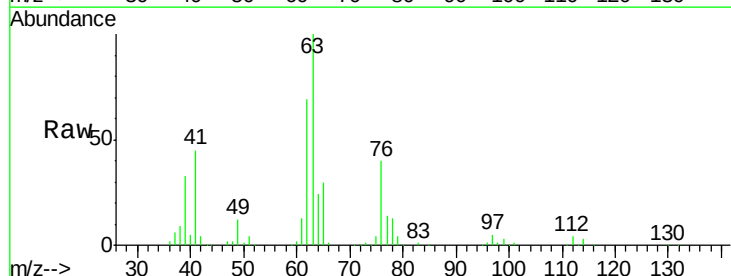


Abundance Ion 129.90 (129.60 to 130.60): VU036528.D (-1614) (-)
 Ion 94.90 (94.60 to 95.60): VU036528.D (-1614) (-)

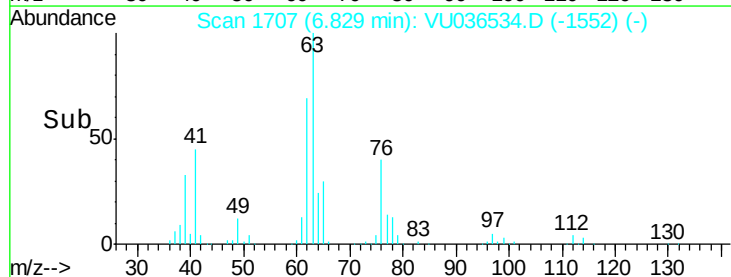
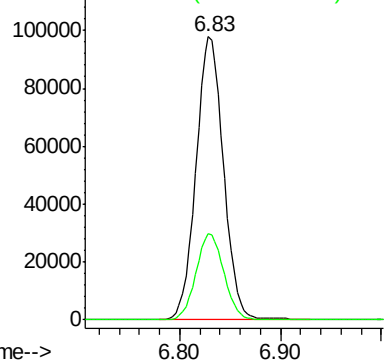


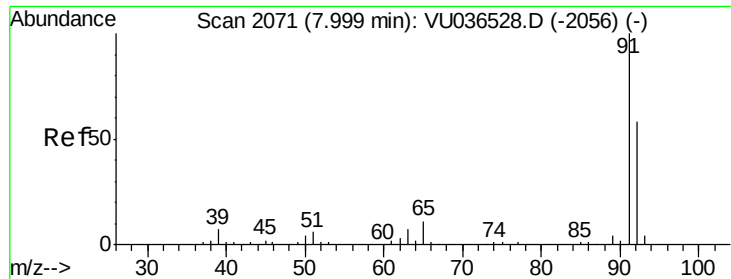
#38
 1,2-Dichloropropane
 Concen: 18.793 ug/l
 RT: 6.83 min Scan# 1707
 Delta R.T. -0.00 min
 Lab File: VU036534.D
 Acq: 23 Jan 2020 12:08

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



Abundance Ion 63.00 (62.70 to 63.70): VU036528.D (-1688) (-)
 Ion 65.00 (64.70 to 65.70): VU036528.D (-1688) (-)





#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

ClientSampleId :

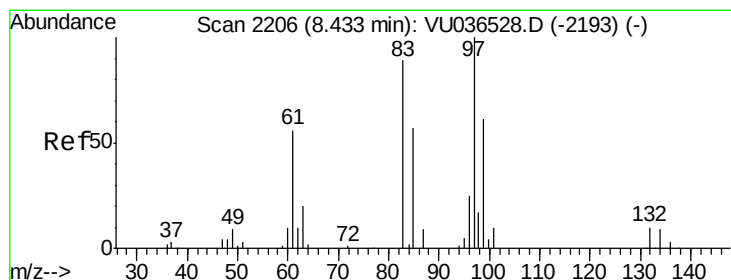
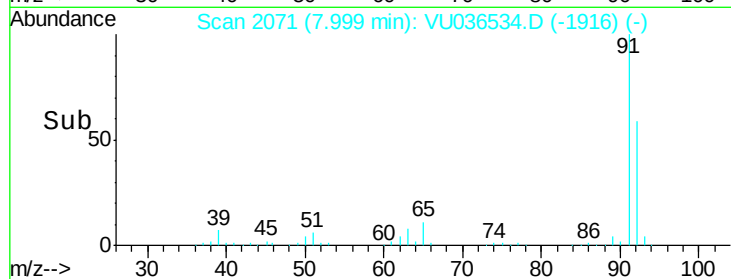
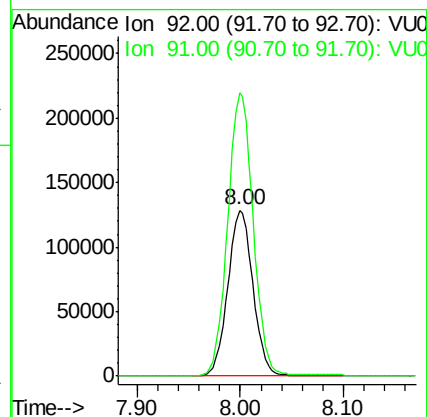
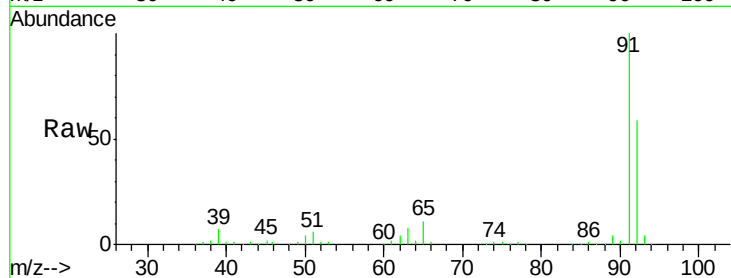
PT-RVOA-WS

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

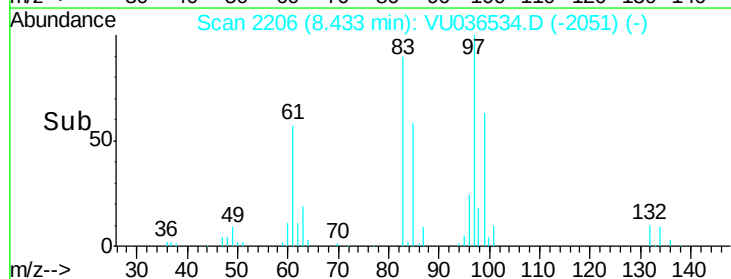
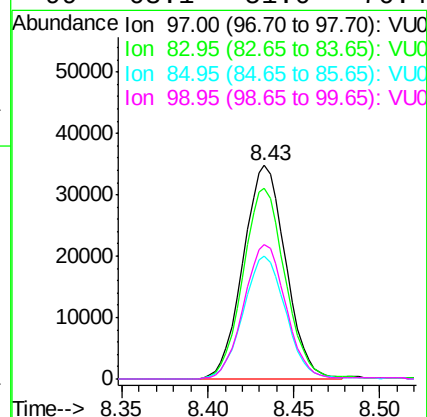
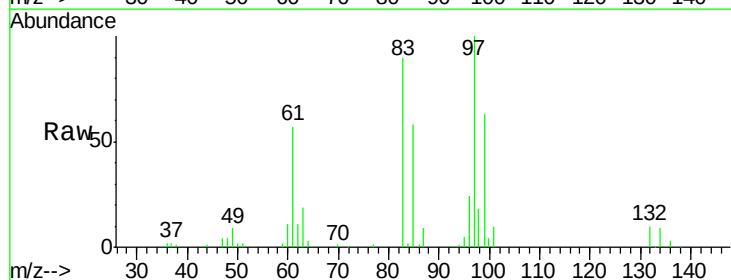
Ion Ratio Lower Upper

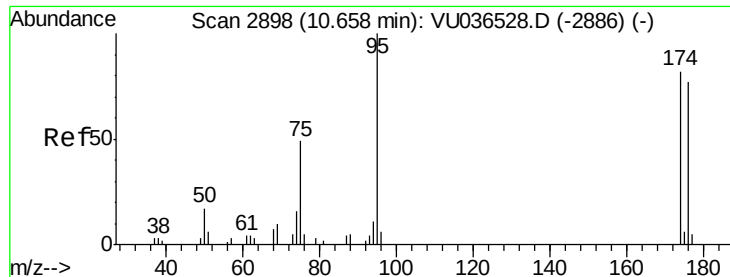
97 100

83 89.6 70.9 106.3

85 57.6 45.6 68.4

99 63.1 51.0 76.4

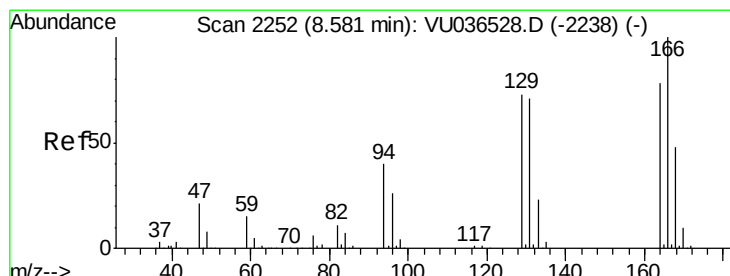
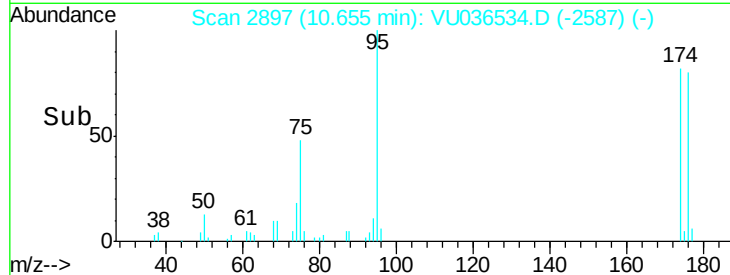
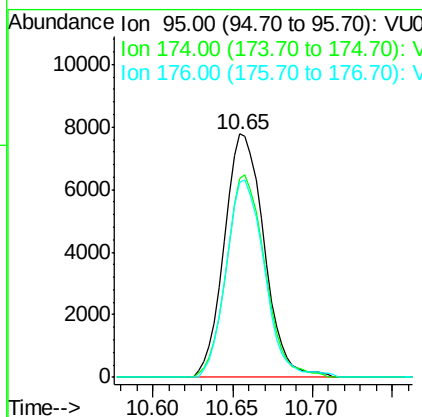
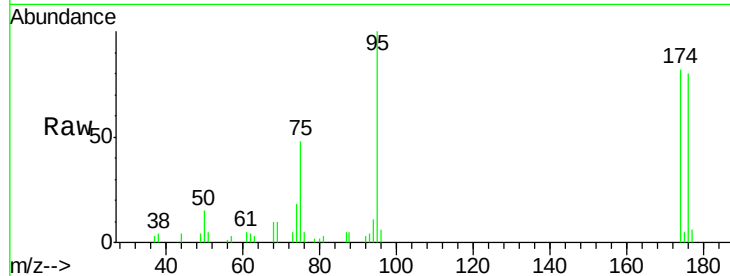




#57
4-Bromofluorobenzene
Concen: 0.989 ug/l
RT: 10.65 min Scan# 2897
Delta R.T. -0.00 min
Lab File: VU036534.D
Acq: 23 Jan 2020 12:08

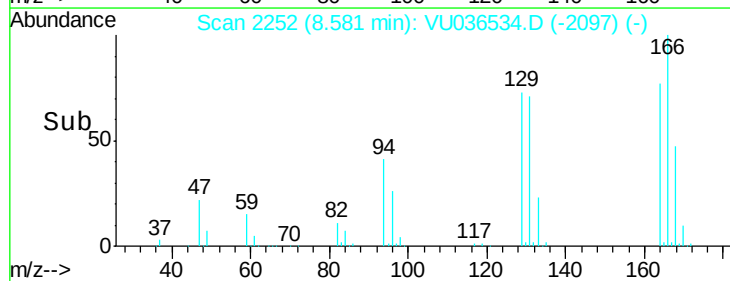
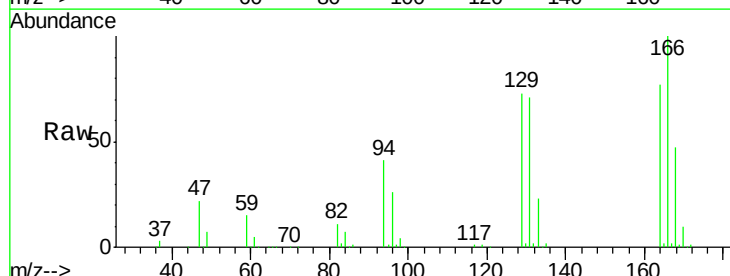
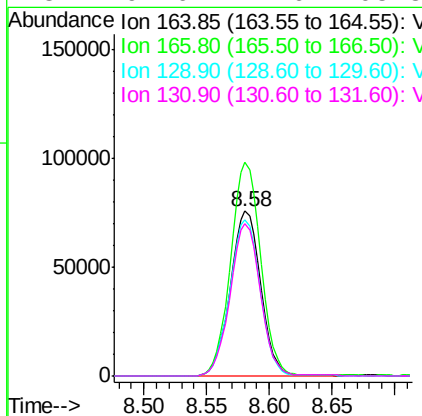
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

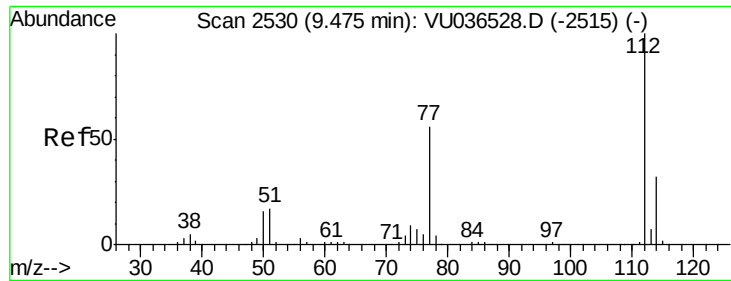
Tot Ion: 95 Resp: 13265
Ion Ratio Lower Upper
95 100
174 80.1 64.7 97.1
176 78.1 60.6 91.0



#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

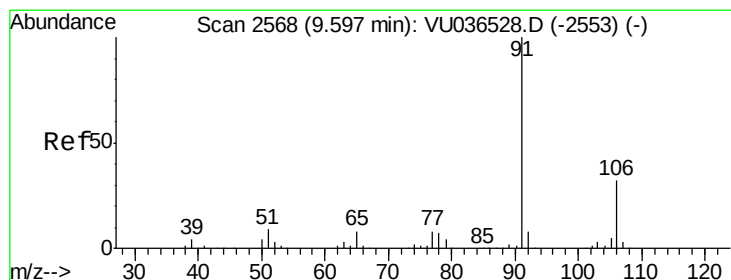
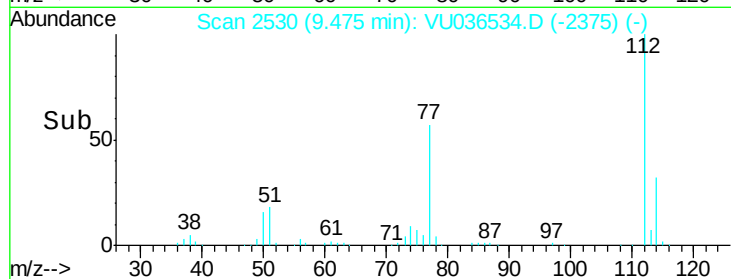
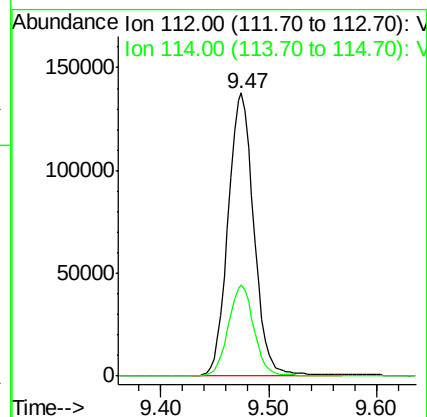
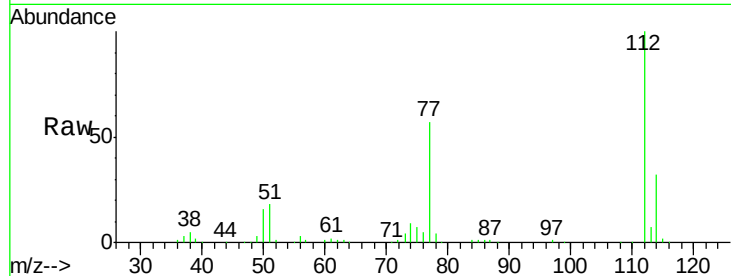




#59
Chlorobenzene
Concen: 8.264 ug/l
RT: 9.47 min Scan# 2530
Delta R.T. -0.00 min
Lab File: VU036534.D
Acq: 23 Jan 2020 12:08

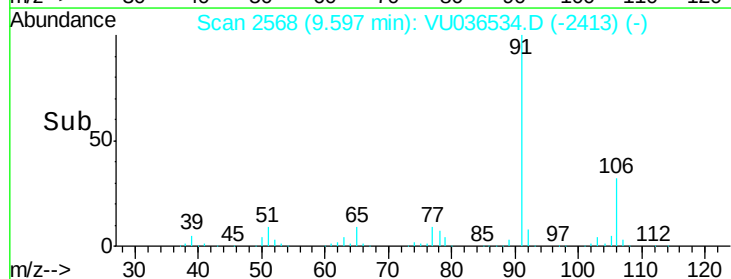
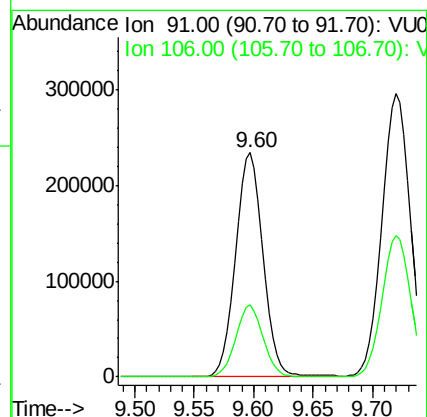
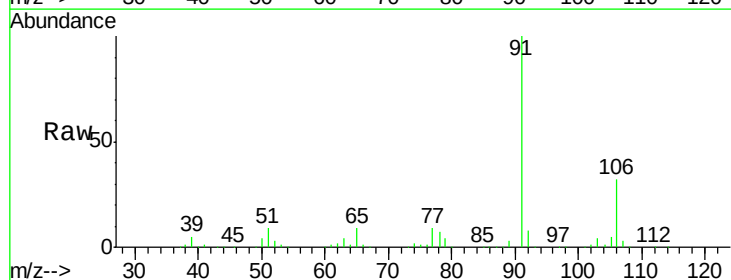
Instrument :
MSVOA_U
ClientSampleId :
PT-RVOA-WS

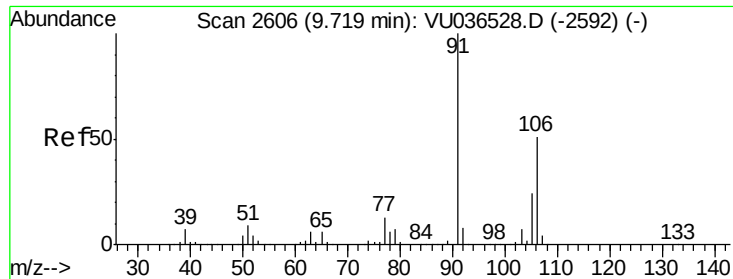
Tot Ion: 112 Resp: 231198
Ion Ratio Lower Upper
112 100
114 32.2 25.8 38.8



#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 :

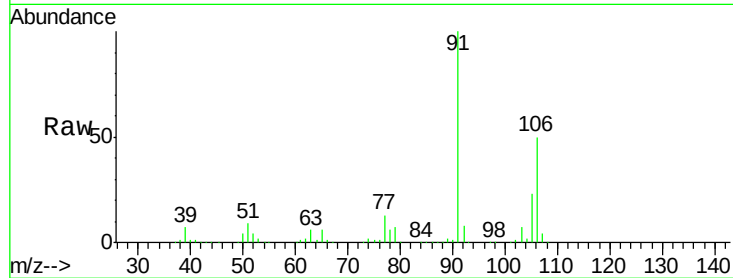
PT-RVOA-WS

Tot Ion:106 Resp: 248023

Ion Ratio Lower Upper

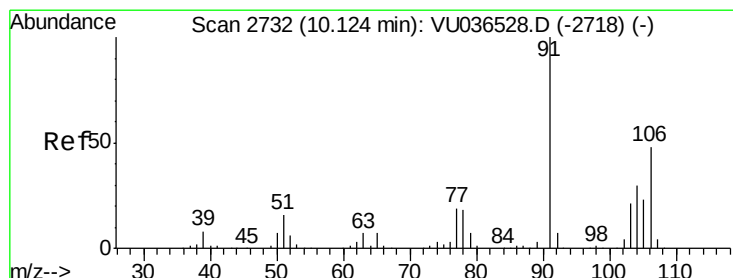
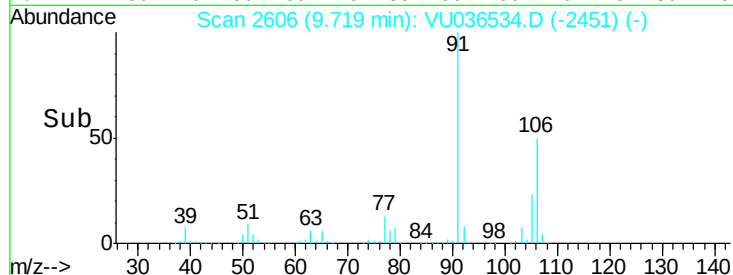
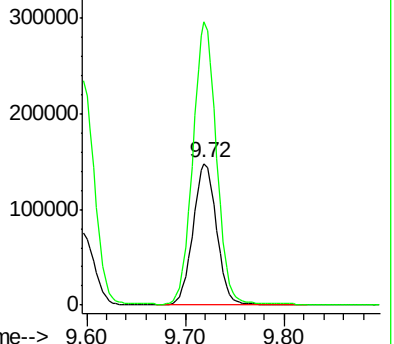
106 100

91 199.8 158.2 237.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#65

o-Xylene

Concen: 6.950 ug/l

RT: 10.12 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU036534.D

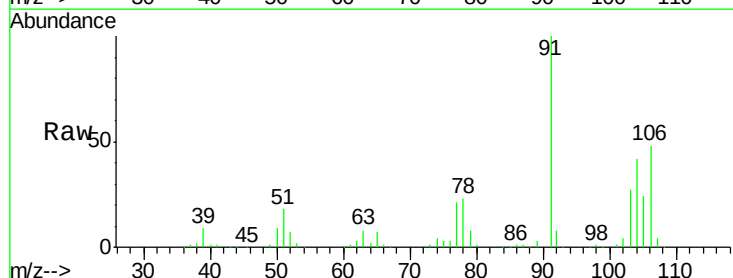
Acq: 23 Jan 2020 12:08

Tgt Ion:106 Resp: 124900

Ion Ratio Lower Upper

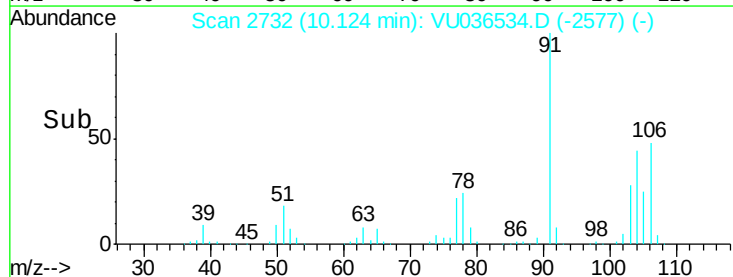
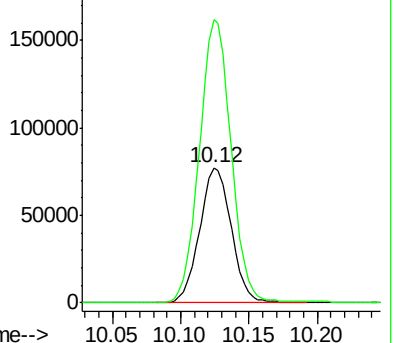
106 100

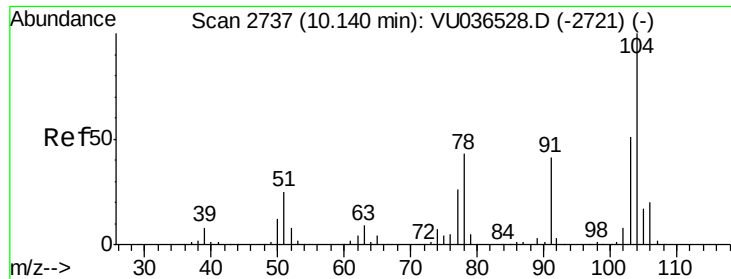
91 210.8 104.3 312.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#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

ClientSampleId :

PT-RVOA-WS

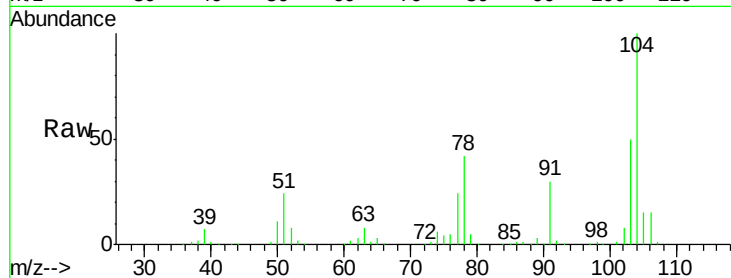
Tot Ion:104 Resp: 328289

Ion Ratio Lower Upper

104 100

78 45.1 38.6 57.8

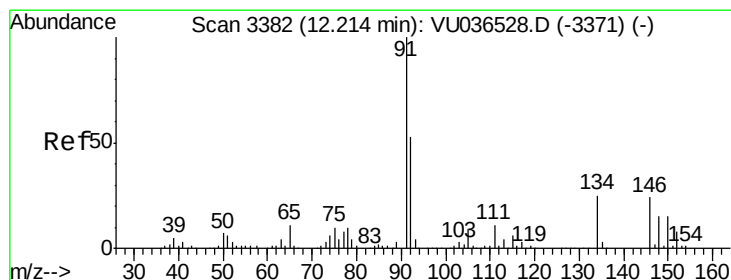
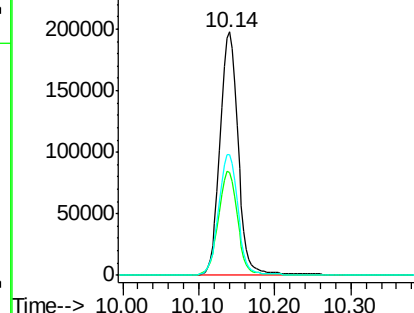
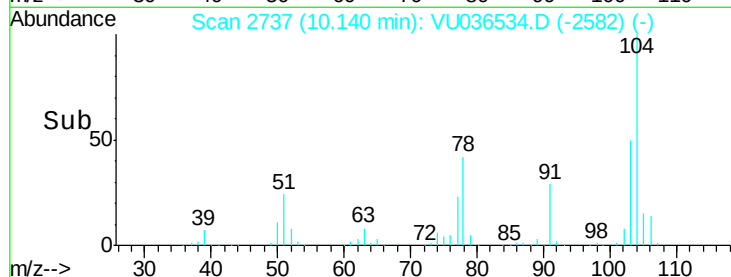
103 53.0 44.4 66.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#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

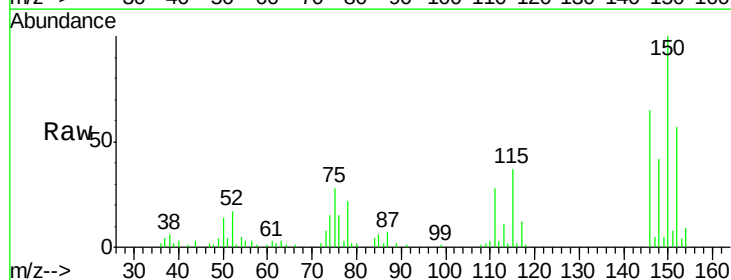
Tgt Ion:152 Resp: 13731

Ion Ratio Lower Upper

152 100

115 62.6 0.0 241.8

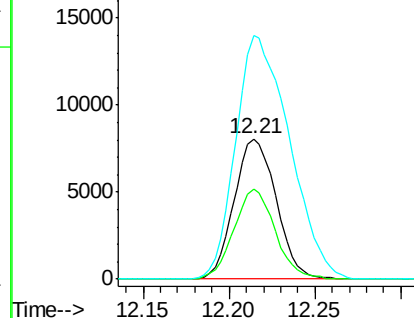
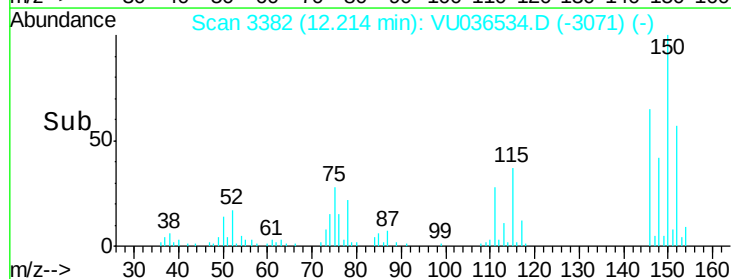
150 221.4 0.0 652.4

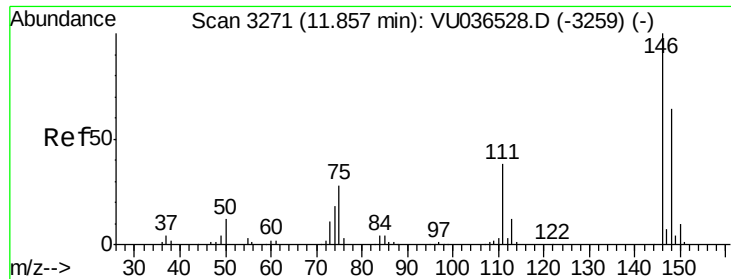


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V

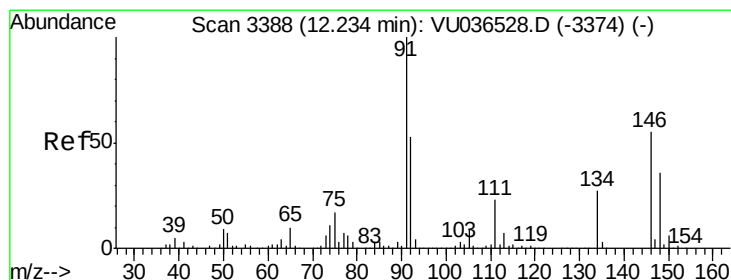
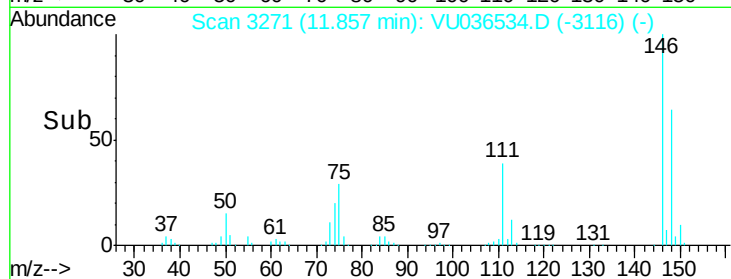
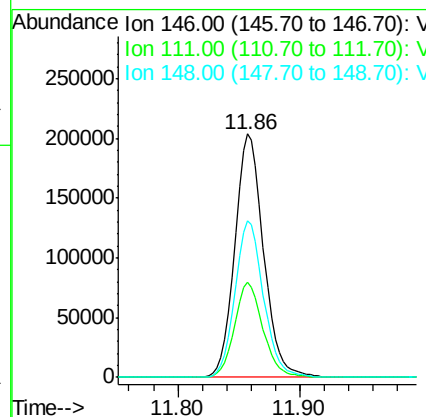
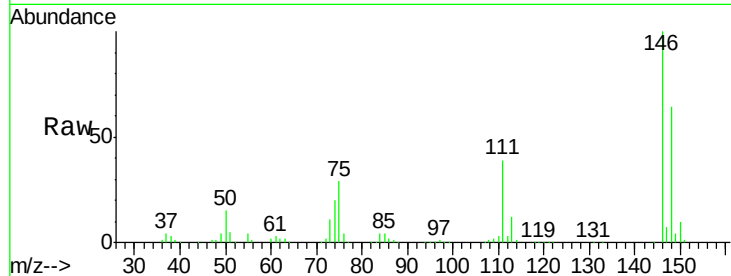




#83
 1,4-Dichlorobenzene
 Concen: 14.701 ug/l
 RT: 11.86 min Scan# 3271
 Delta R.T. -0.00 min
 Lab File: VU036534.D
 Acq: 23 Jan 2020 12:08

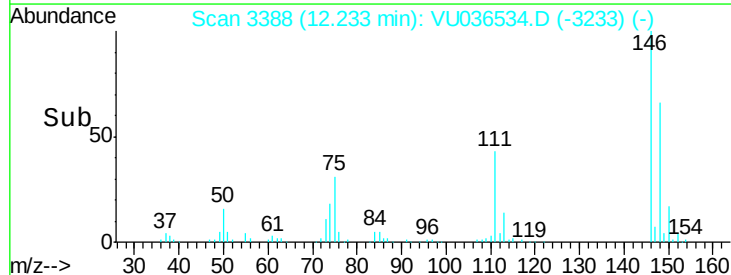
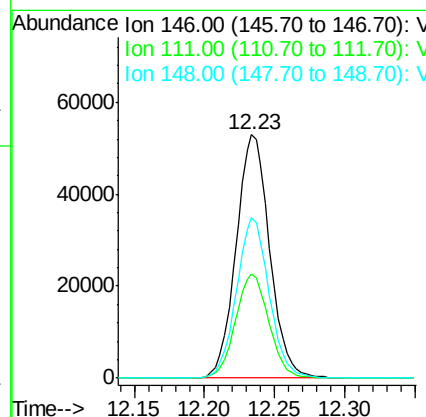
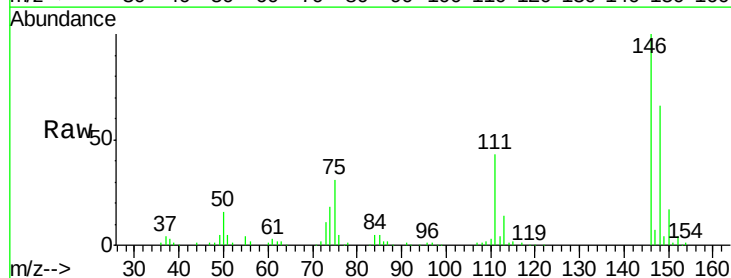
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WS

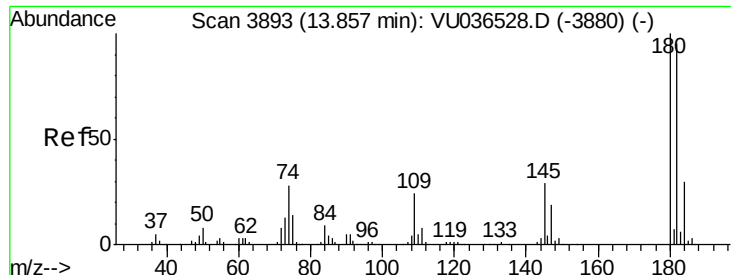
Tot Ion:146 Resp: 334372
 Ion Ratio Lower Upper
 146 100
 111 38.5 30.5 45.7
 148 64.0 51.0 76.4



#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

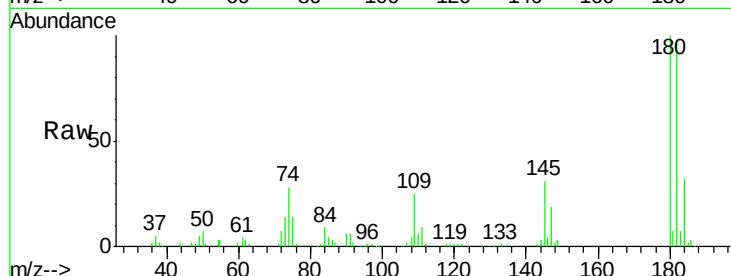
Acq: 23 Jan 2020 12:08

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WS



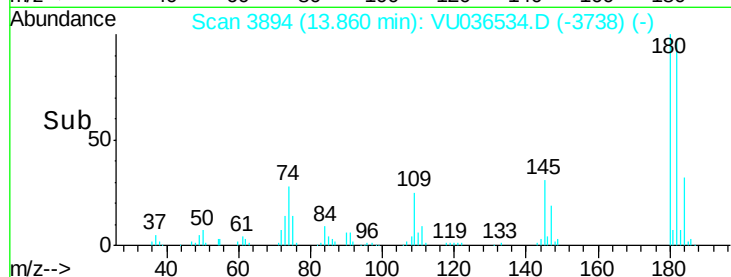
Tot Ion:180 Resp: 68186

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

