

Data Path : W:\HPCHEM1\MSVOA U\DATA\VU043018\
 Data File : VU023539.D
 Acq On : 30 Apr 2018 20:57
 Operator : MD/SY
 Sample : J2241-06
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 1221

Quant Time: May 01 05:44:15 2018
 Quant Method : W:\HPCHEM1\MSVOA U\METHOD\524U043018DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue May 01 05:06:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	5.74	96	47182	1.00	ug/l	0.00

System Monitoring Compounds

57) 4-Bromofluorobenzene	10.31	95	15184	0.99	ug/l	0.00
Spiked Amount 1.000			Recovery	=	99.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	16111	1.08	ug/l	0.00
Spiked Amount 1.000			Recovery	=	108.00%	

Target Compounds

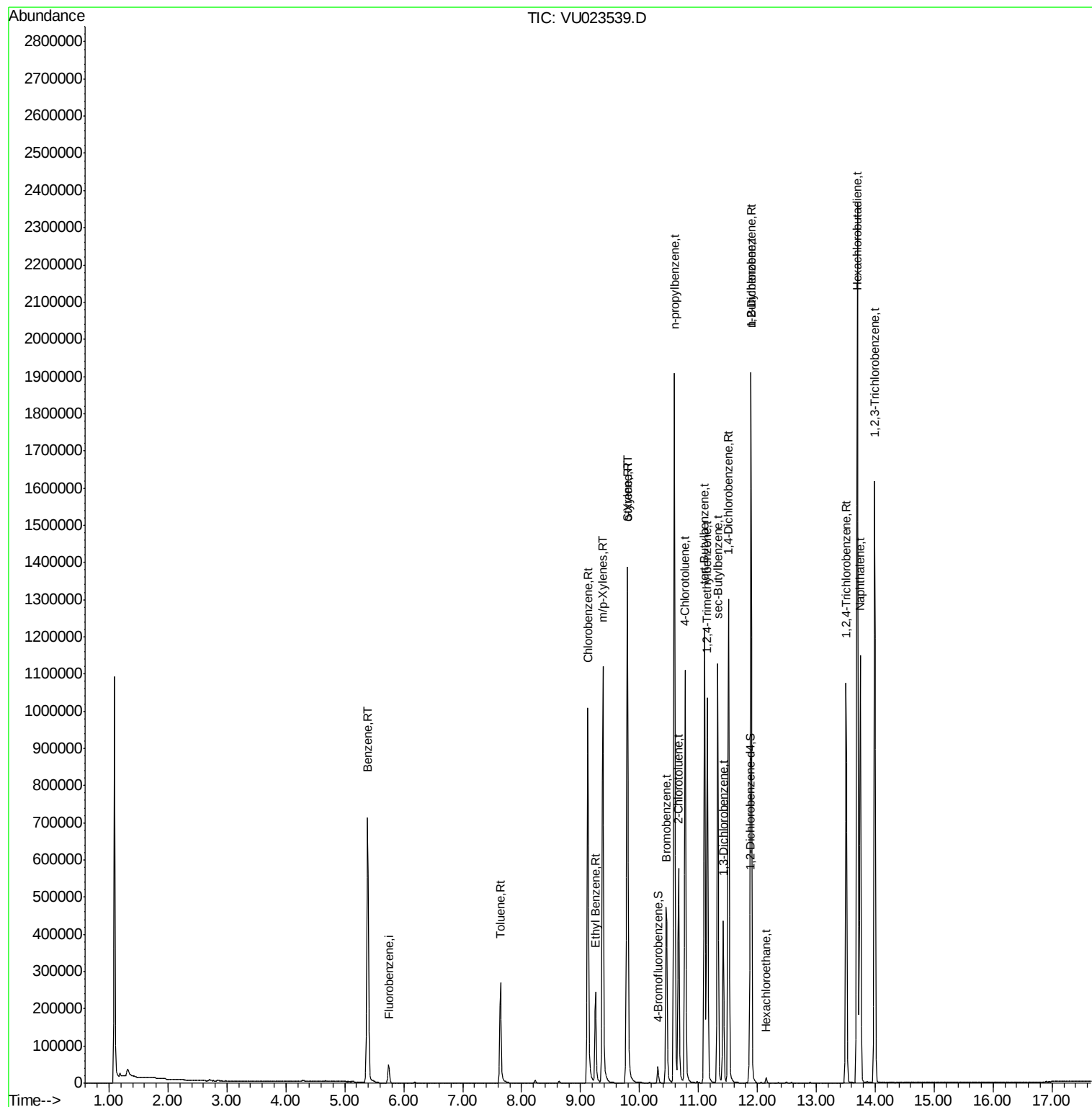
						Ovalue
35) Benzene	5.39	78	702769	13.26	ug/l	100
49) Toluene	7.64	92	121499	3.97	ug/l	98
59) Chlorobenzene	9.12	112	566824	17.29	ug/l	100
62) Hexachloroethane	12.15	117	2566	0.34	ug/l	87
63) Ethyl Benzene	9.25	91	174752	3.21	ug/l	99
64) m/p-Xylenes	9.38	106	327960	15.61	ug/l	99
65) o-Xylene	9.78	106	125883	6.22	ug/l	100
66) Styrene	9.80	104	576899	17.29	ug/l	94
72) Bromobenzene	10.46	156	139150	10.73	ug/l	96
73) n-propylbenzene	10.59	120	323495	22.46	ug/l	98
74) 2-Chlorotoluene	10.66	126	108267	8.50	ug/l	93
76) 4-Chlorotoluene	10.78	126	216319	16.39	ug/l	83
77) tert-Butylbenzene	11.10	119	572631	13.92	ug/l	93
78) 1,2,4-Trimethylbenzene	11.15	105	550245	12.41	ug/l	100
79) sec-Butylbenzene	11.33	105	769452	13.36	ug/l	100
82) 1,3-Dichlorobenzene	11.42	146	179652	6.94	ug/l	100
83) 1,4-Dichlorobenzene	11.51	146	531108	20.54	ug/l	99
84) n-Butylbenzene	11.89	91	915277	19.81	ug/l	100
85) 1,2-Dichlorobenzene	11.88	146	143046	6.12	ug/l	99
87) 1,2,4-Trichlorobenzene	13.51	180	333001	19.69	ug/l	99
88) Hexachlorobutadiene	13.70	225	456421	44.52	ug/l	99
89) Naphthalene	13.75	128	869959	34.16	ug/l	100
90) 1,2,3-Trichlorobenzene	13.99	180	505685	31.86	ug/l	99

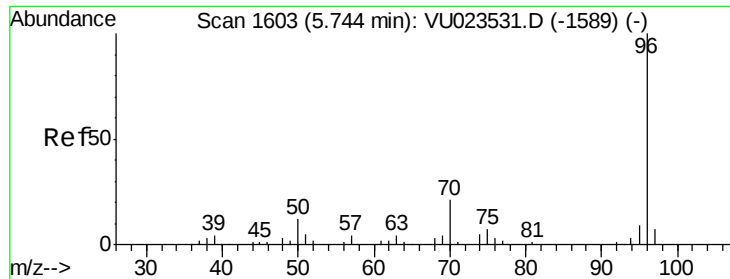
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA U\DATA\VU043018\
Data File : VU023539.D
Acq On : 30 Apr 2018 20:57
Operator : MD/SY
Sample : J2241-06
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
1221

Quant Time: May 01 05:44:15 2018
Quant Method : W:\HPCHEM1\MSVOA U\METHOD\524U043018DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Tue May 01 05:06:52 2018
Response via : Initial Calibration





#1

Fluorobenzene

Concen: 1.00 ug/l

RT: 5.74 min Scan# 1603

Delta R.T. 0.00 min

Lab File: VU023539.D

Acq: 30 Apr 2018 20:57

Instrument :
MSVOA_U
ClientSampleId :
1221

Tot Ion: 96 Resp: 47182

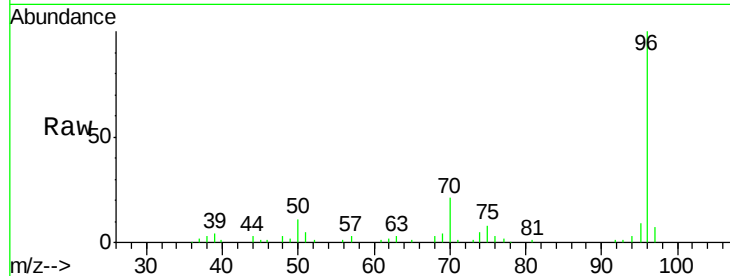
Ion Ratio Lower Upper

96 100

70 21.0 16.2 24.4

95 8.7 6.9 10.3

97 6.9 0.0 0.0#

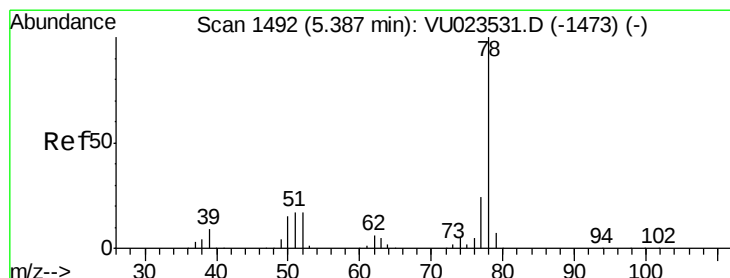
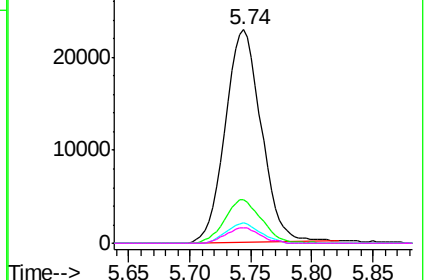
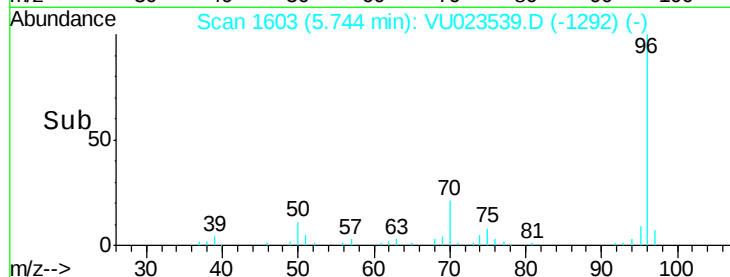


Abundance Ion 96.00 (95.70 to 96.70): VU0

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



#35

Benzene

Concen: 13.26 ug/l

RT: 5.39 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VU023539.D

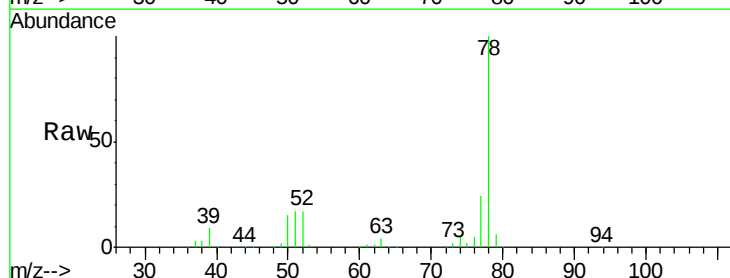
Acq: 30 Apr 2018 20:57

Tgt Ion: 78 Resp: 702769

Ion Ratio Lower Upper

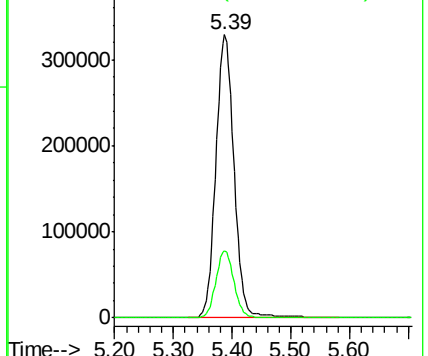
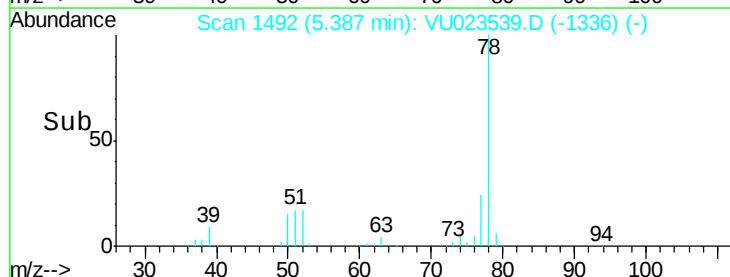
78 100

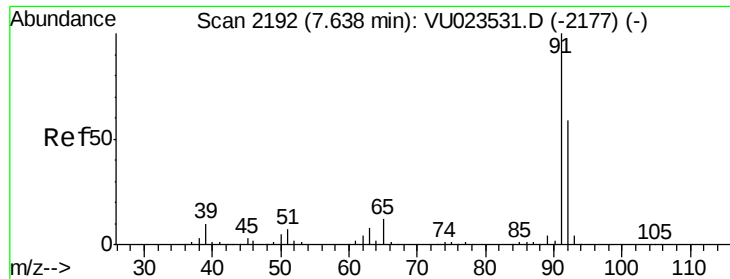
77 23.9 19.1 28.7



Abundance Ion 78.10 (77.80 to 78.80): VU0

Ion 77.00 (76.70 to 77.70): VU0





#49

Toluene

Concen: 3.97 ug/l

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU023539.D

Acq: 30 Apr 2018 20:57

Instrument :

MSVOA_U

ClientSampleId :

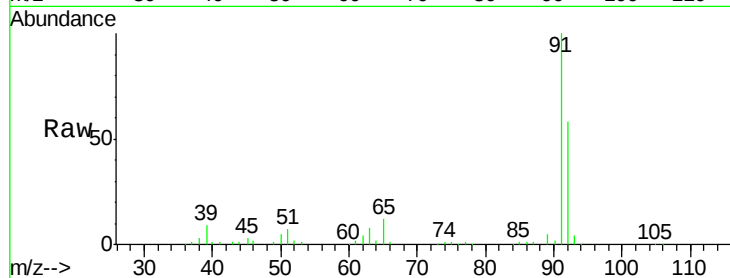
1221

Tot Ion: 92 Resp: 121499

Ion Ratio Lower Upper

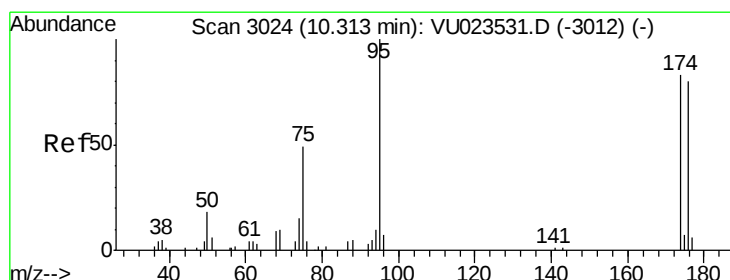
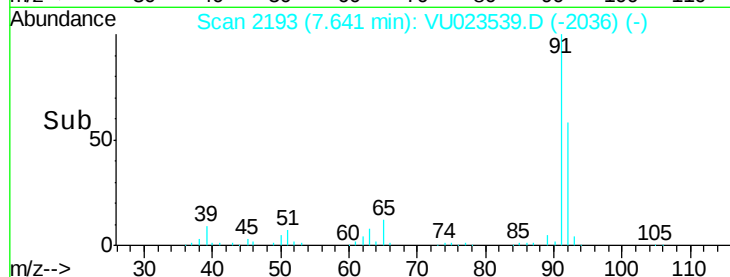
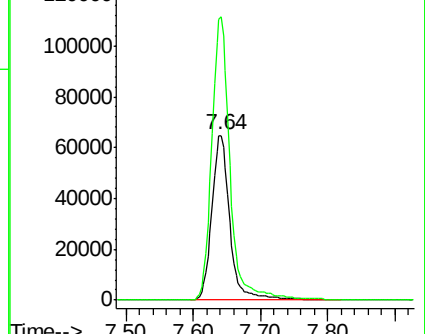
92 100

91 173.6 137.1 205.7



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0



#57

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.00 min

Lab File: VU023539.D

Acq: 30 Apr 2018 20:57

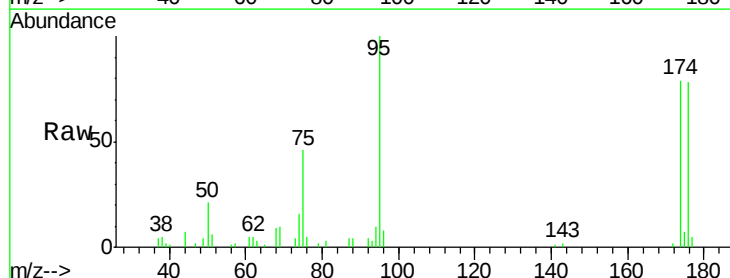
Tgt Ion: 95 Resp: 15184

Ion Ratio Lower Upper

95 100

174 86.5 65.6 98.4

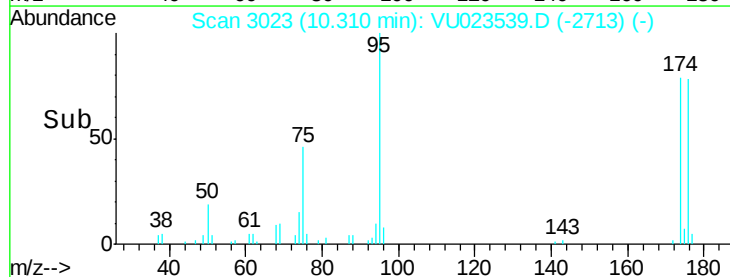
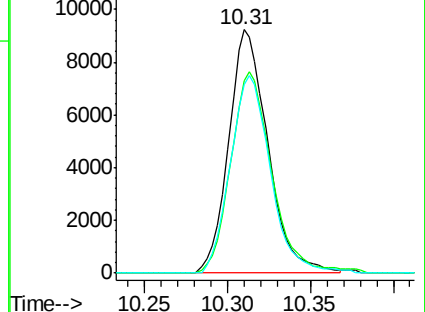
176 83.2 62.0 93.0

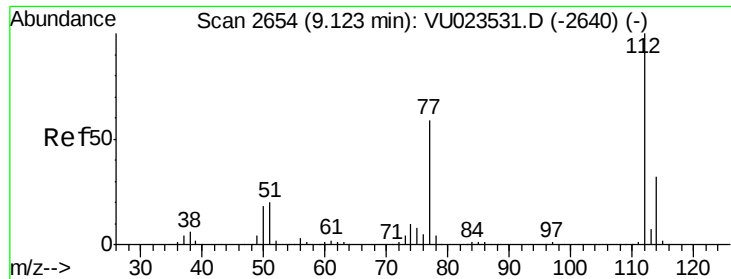


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#59

Chlorobenzene

Concen: 17.29 ug/l

RT: 9.12 min Scan# 2654

Delta R.T. 0.00 min

Lab File: VU023539.D

Acq: 30 Apr 2018 20:57

Instrument :

MSVOA_U

ClientSampleId :

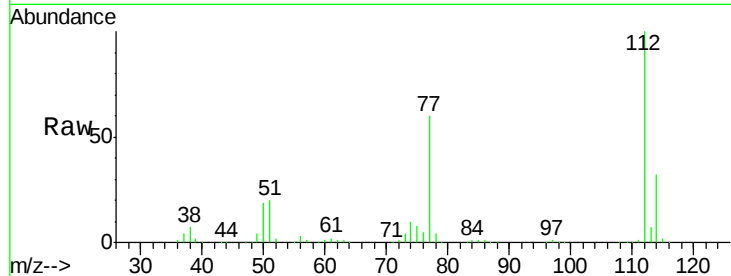
1221

Tot Ion:112 Resp: 566824

Ion Ratio Lower Upper

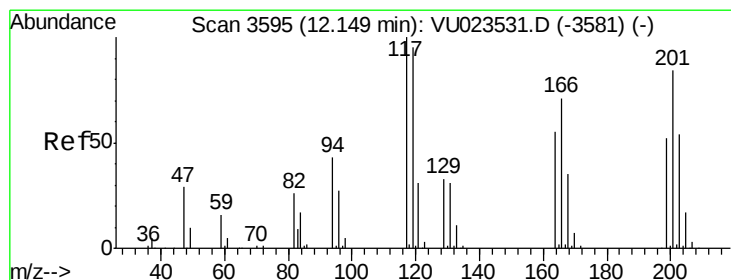
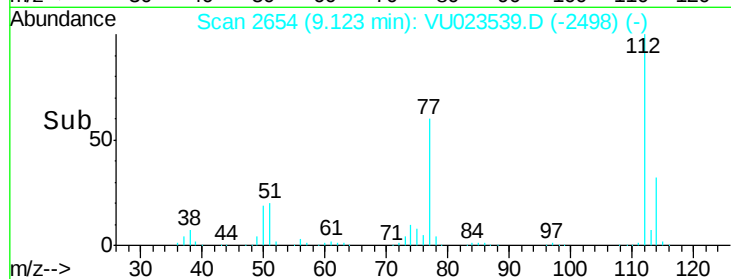
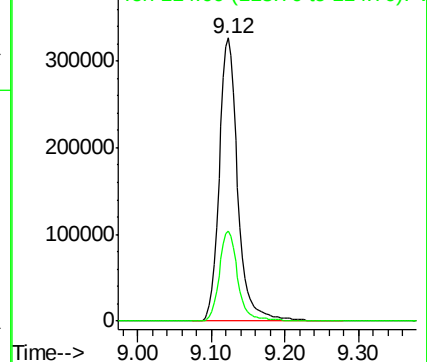
112 100

114 31.7 25.4 38.2



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#62

Hexachloroethane

Concen: 0.34 ug/l

RT: 12.15 min Scan# 3595

Delta R.T. 0.00 min

Lab File: VU023539.D

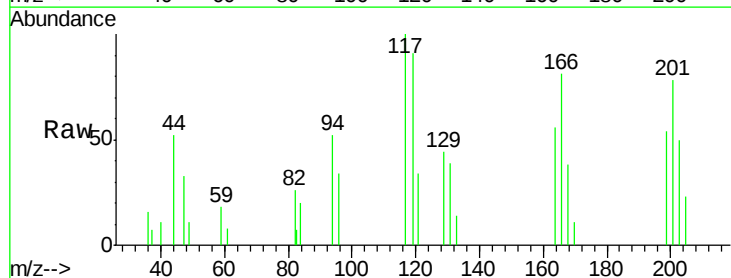
Acq: 30 Apr 2018 20:57

Tgt Ion:117 Resp: 2566

Ion Ratio Lower Upper

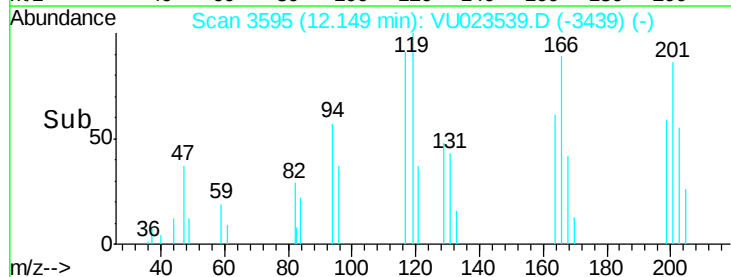
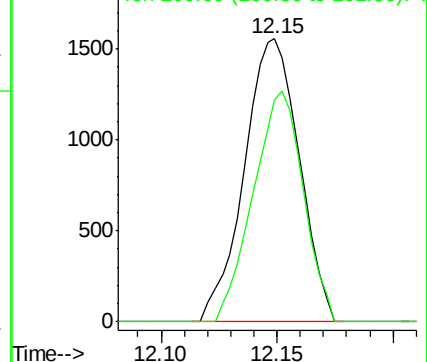
117 100

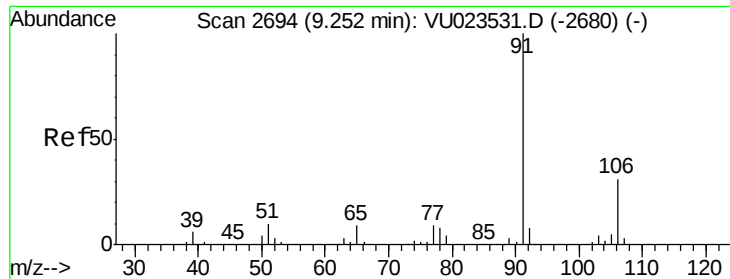
201 74.1 68.7 103.1



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.60 (200.30 to 201.30): V





#63

Ethyl Benzene

Concen: 3.21 ug/l

RT: 9.25 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VU023539.D

Acq: 30 Apr 2018 20:57

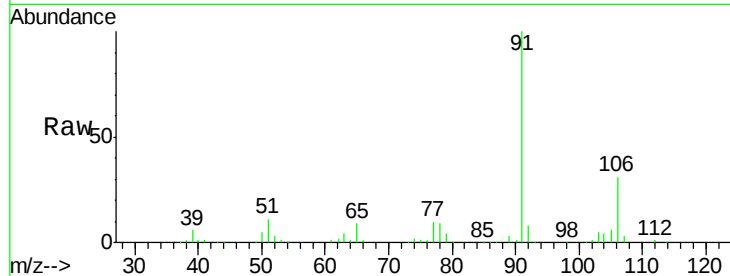
Instrument :
MSVOA_U
ClientSampled :
1221

Tot Ion: 91 Resp: 174752

Ion Ratio Lower Upper

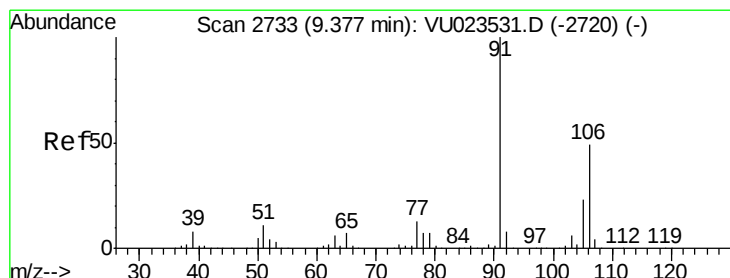
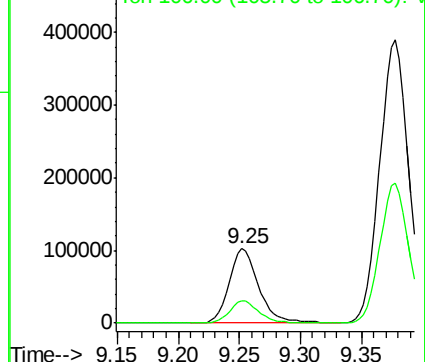
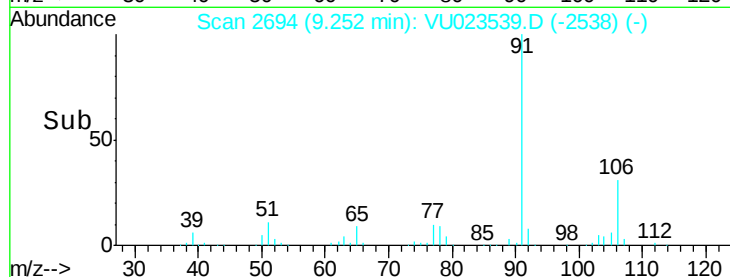
91 100

106 30.5 24.7 37.1



Abundance Ion 91.00 (90.70 to 91.70): VU023539.D (-2538) (-)

Ion 106.00 (105.70 to 106.70): VU023539.D (-2538) (-)



#64

m/p-Xylenes

Concen: 15.61 ug/l

RT: 9.38 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU023539.D

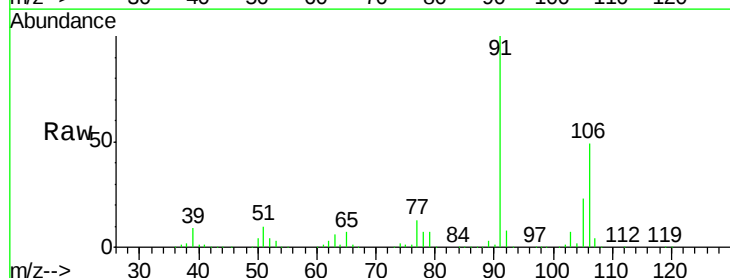
Acq: 30 Apr 2018 20:57

Tgt Ion:106 Resp: 327960

Ion Ratio Lower Upper

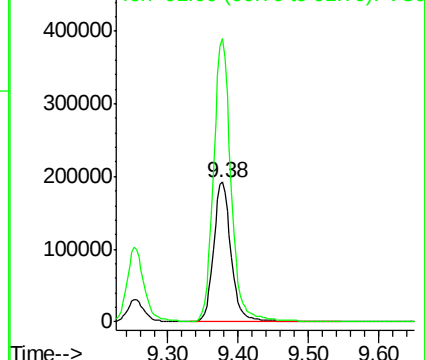
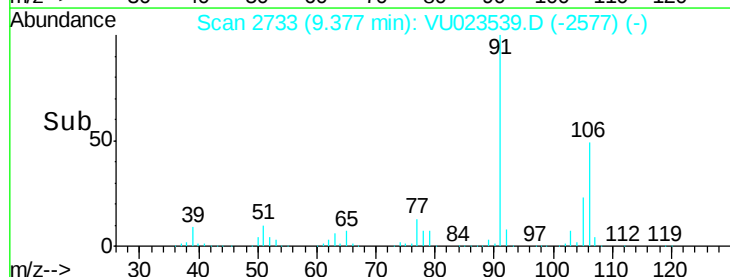
106 100

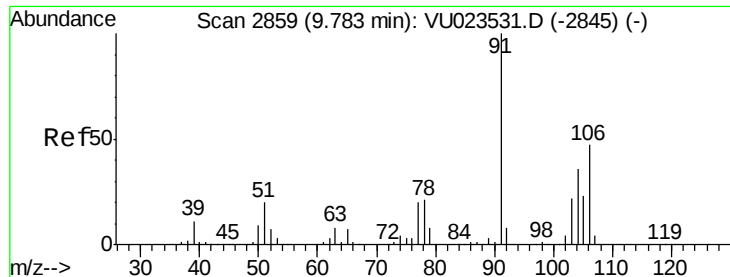
91 203.9 164.1 246.1



Abundance Ion 106.00 (105.70 to 106.70): VU023539.D (-2577) (-)

Ion 91.00 (90.70 to 91.70): VU023539.D (-2577) (-)

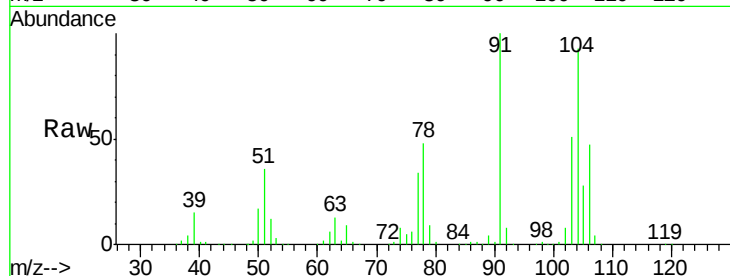




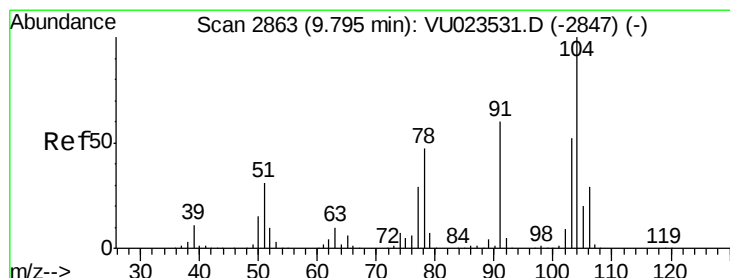
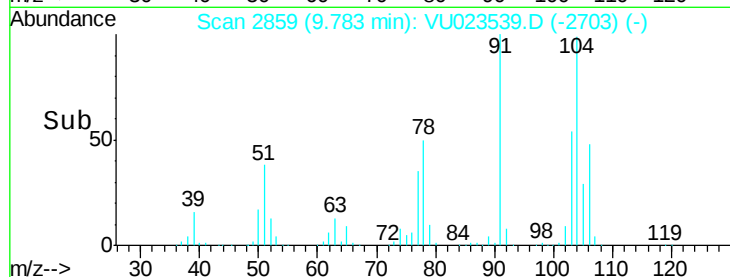
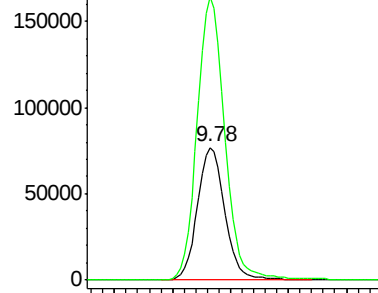
#65
o-Xylene
Concen: 6.22 ug/l
RT: 9.78 min Scan# 2859
Delta R.T. 0.00 min
Lab File: VU023539.D
Acq: 30 Apr 2018 20:57

Instrument :
MSVOA_U
ClientSampled :
1221

Tot Ion:106 Resp: 125883
Ion Ratio Lower Upper
106 100
91 215.0 107.9 323.7

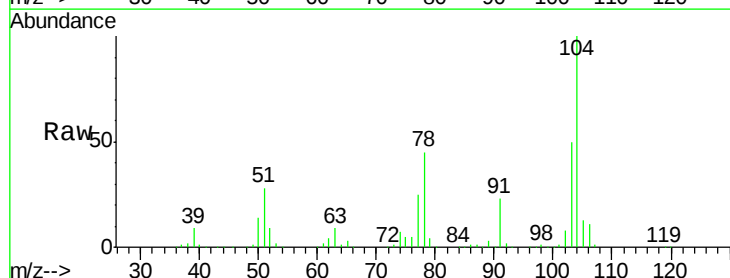


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

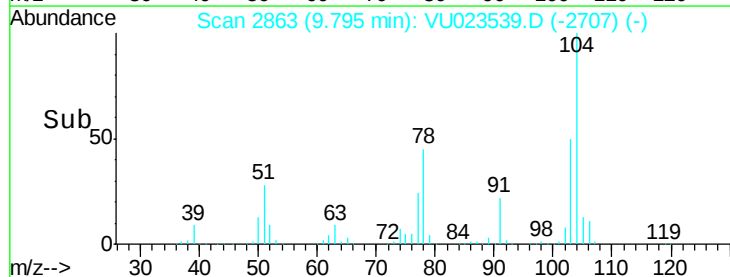
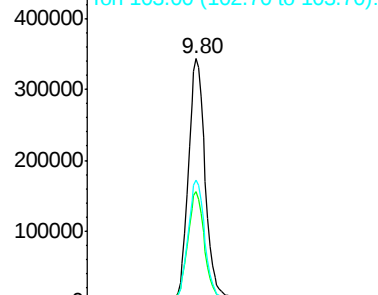


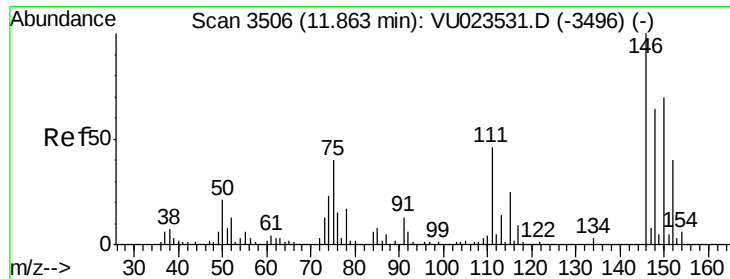
#66
Styrene
Concen: 17.29 ug/l
RT: 9.80 min Scan# 2863
Delta R.T. 0.00 min
Lab File: VU023539.D
Acq: 30 Apr 2018 20:57

Tgt Ion:104 Resp: 576899
Ion Ratio Lower Upper
104 100
78 46.1 40.2 60.2
103 51.0 44.2 66.4



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0
Ion 103.00 (102.70 to 103.70): V





#68

1,2-Dichlorobenzene-d4

Concen: N.D. ug/l

RT: 11.86 min Scan# 3506

Delta R.T. 0.00 min

Lab File: VU023539.D

Acq: 30 Apr 2018 20:57

Instrument :

MSVOA_U

ClientSampled :

1221

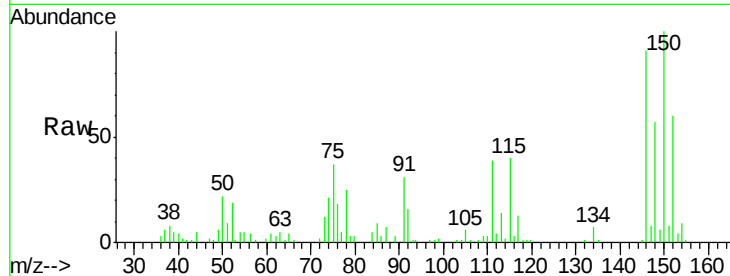
Tot Ion:152 Resp: 16111

Ion Ratio Lower Upper

152 100

115 57.8 0.0 118.8

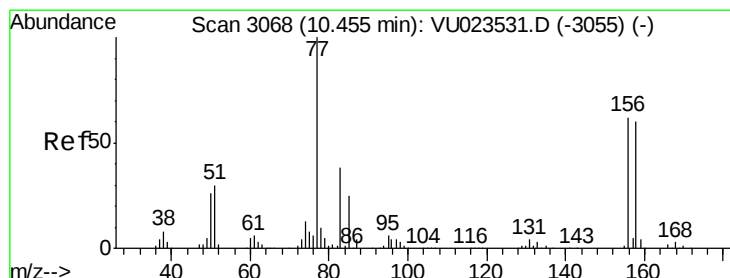
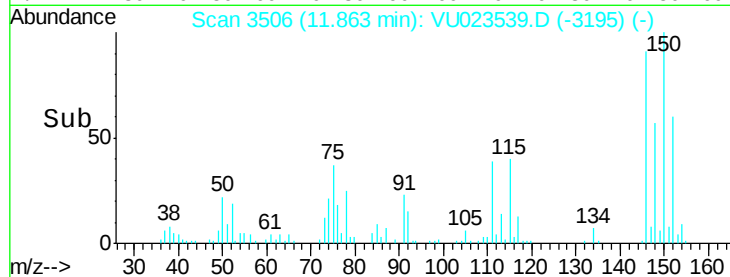
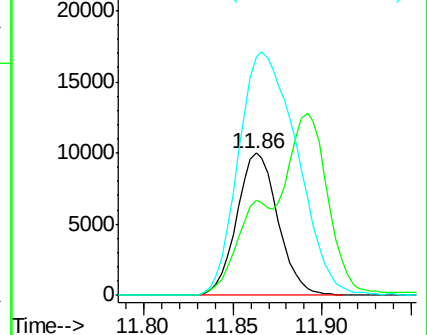
150 243.5 0.0 0.0#



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



#72

Bromobenzene

Concen: 10.73 ug/l

RT: 10.46 min Scan# 3069

Delta R.T. 0.00 min

Lab File: VU023539.D

Acq: 30 Apr 2018 20:57

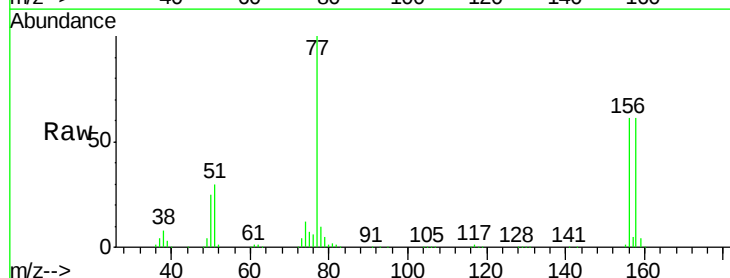
Tgt Ion:156 Resp: 139150

Ion Ratio Lower Upper

156 100

77 163.1 0.0 309.8

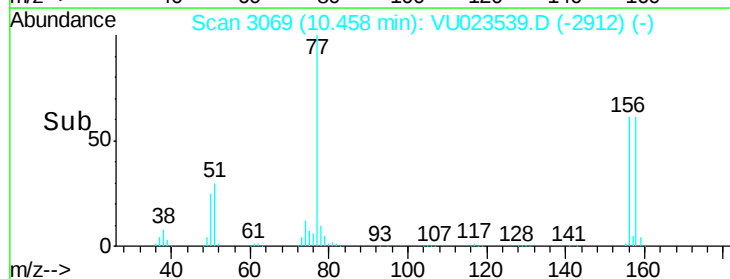
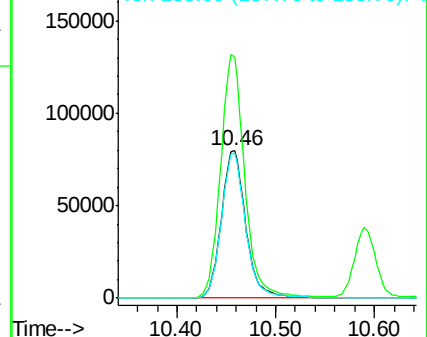
158 97.9 0.0 193.0

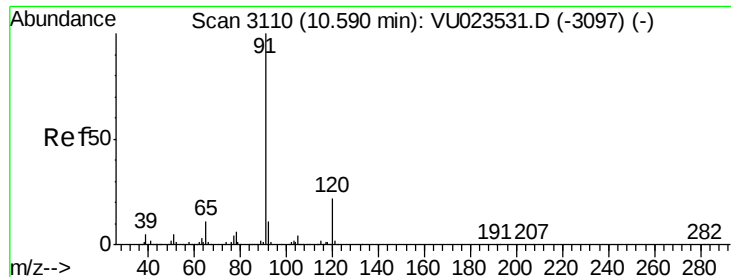


Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VU0

Ion 158.00 (157.70 to 158.70): V





#73

n-propylbenzene

Concen: 22.46 ug/l

RT: 10.59 min Scan# 3110

Delta R.T. 0.00 min

Lab File: VU023539.D

Acq: 30 Apr 2018 20:57

Instrument :

MSVOA_U

ClientSampled :

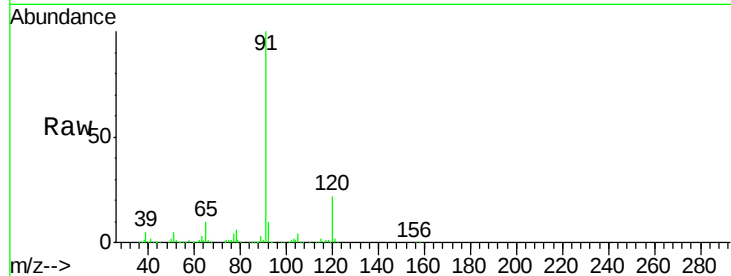
1221

Tot Ion:120 Resp: 323495

Ion Ratio Lower Upper

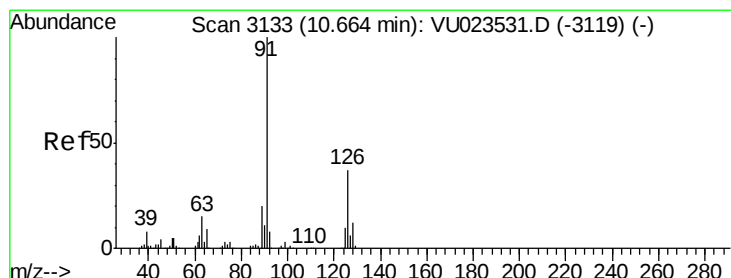
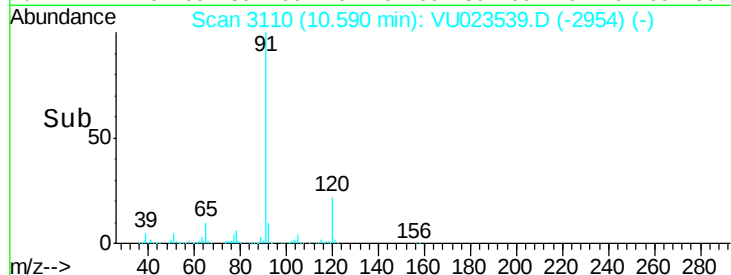
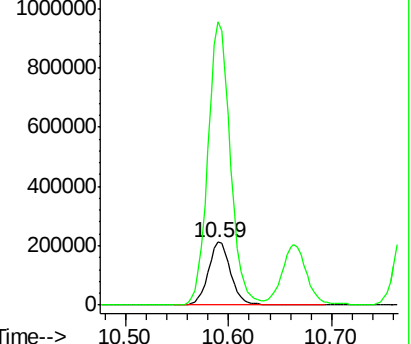
120 100

91 444.2 352.2 528.4



Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0



#74

2-Chlorotoluene

Concen: 8.50 ug/l

RT: 10.66 min Scan# 3133

Delta R.T. 0.00 min

Lab File: VU023539.D

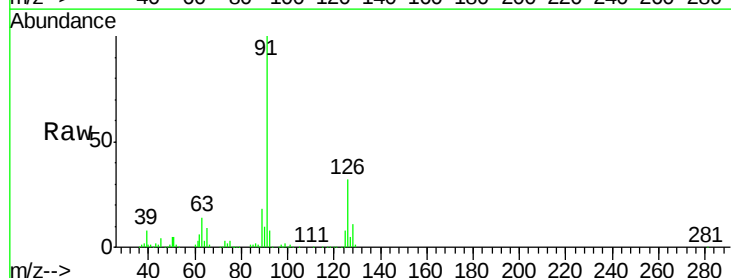
Acq: 30 Apr 2018 20:57

Tgt Ion:126 Resp: 108267

Ion Ratio Lower Upper

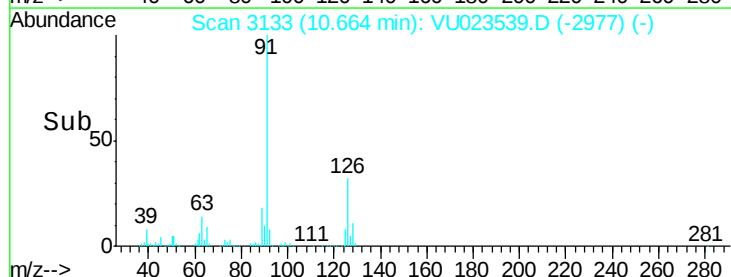
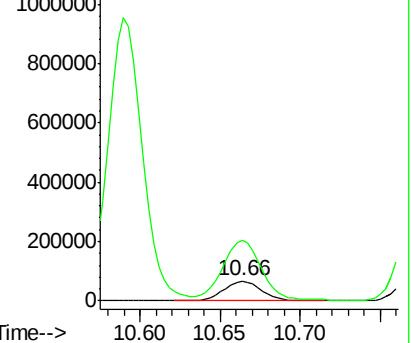
126 100

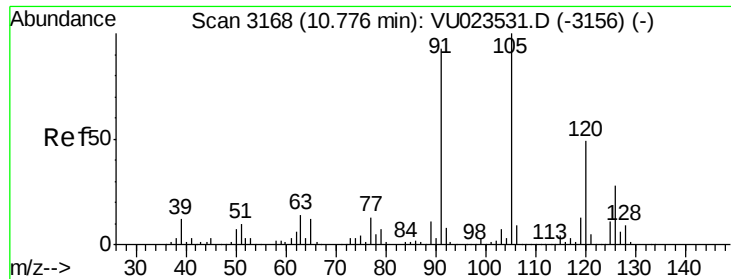
91 321.3 0.0 613.0



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0

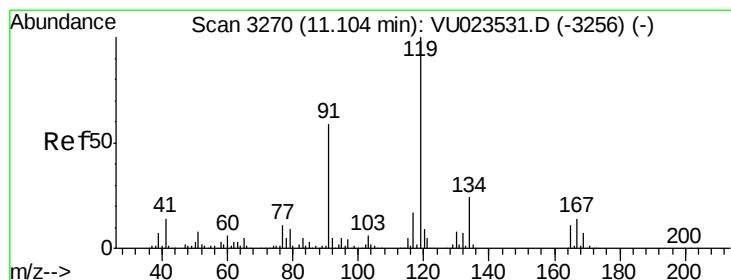
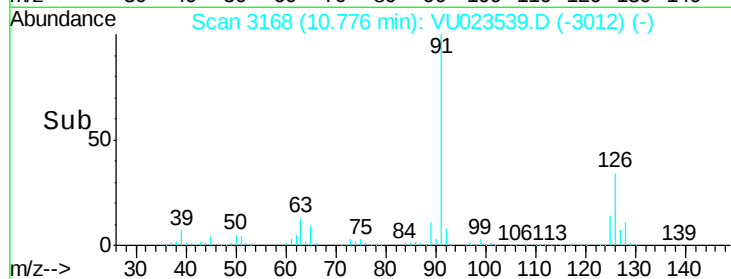
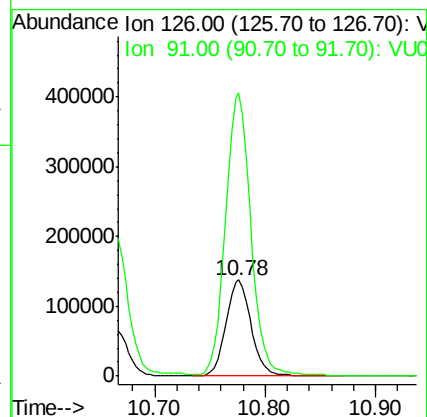
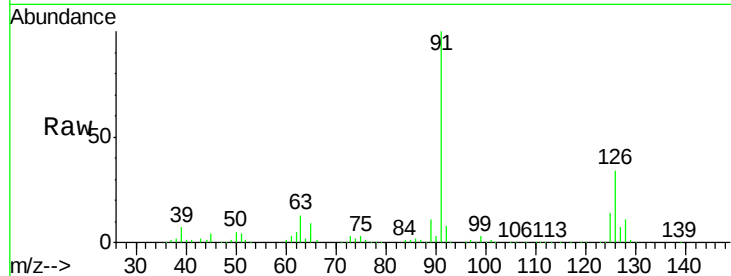




#76
 4-Chlorotoluene
 Concen: 16.39 ug/l
 RT: 10.78 min Scan# 3168
 Delta R.T. 0.00 min
 Lab File: VU023539.D
 Acq: 30 Apr 2018 20:57

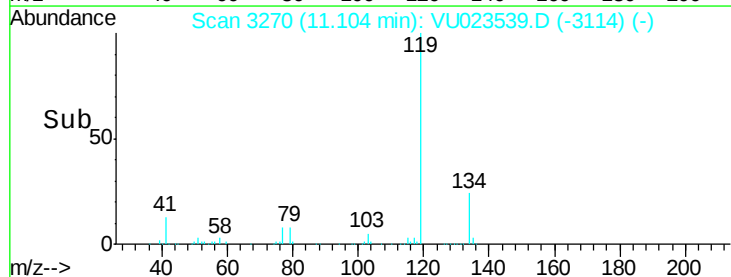
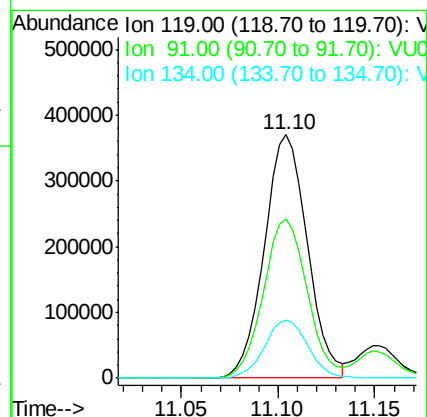
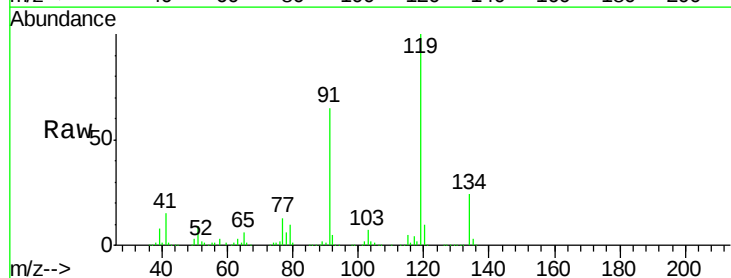
Instrument :
 MSVOA_U
 ClientSampled :
 1221

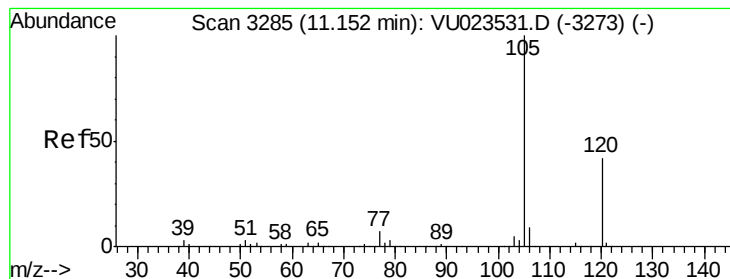
Tot Ion:126 Resp: 216319
 Ion Ratio Lower Upper
 126 100
 91 298.6 0.0 667.2



#77
 tert-Butylbenzene
 Concen: 13.92 ug/l
 RT: 11.10 min Scan# 3270
 Delta R.T. -0.00 min
 Lab File: VU023539.D
 Acq: 30 Apr 2018 20:57

Tgt Ion:119 Resp: 572631
 Ion Ratio Lower Upper
 119 100
 91 66.6 29.6 88.8
 134 24.5 19.1 28.7





#78

1,2,4-Trimethylbenzene

Concen: 12.41 ug/l

RT: 11.15 min Scan# 3285

Delta R.T. 0.00 min

Lab File: VU023539.D

Acq: 30 Apr 2018 20:57

Instrument :

MSVOA_U

ClientSampled :

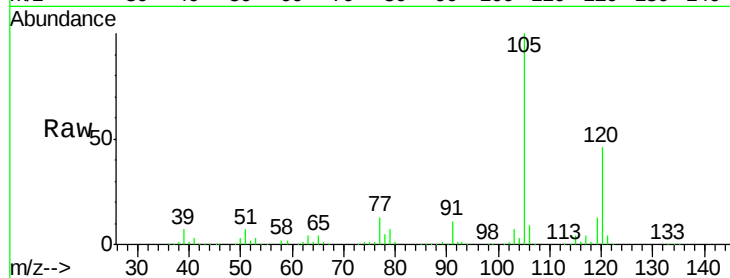
1221

Tot Ion:105 Resp: 550245

Ion Ratio Lower Upper

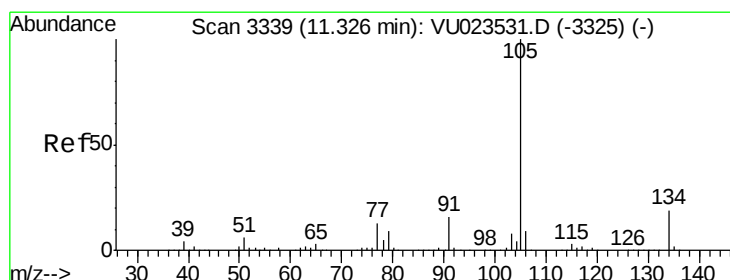
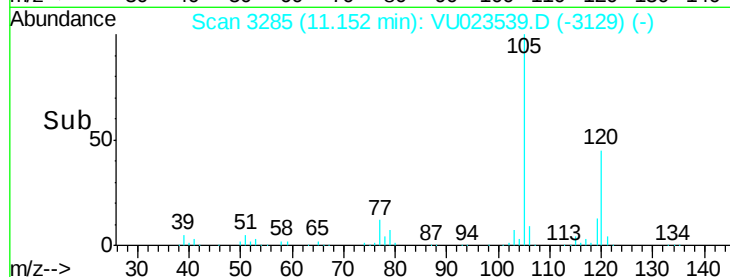
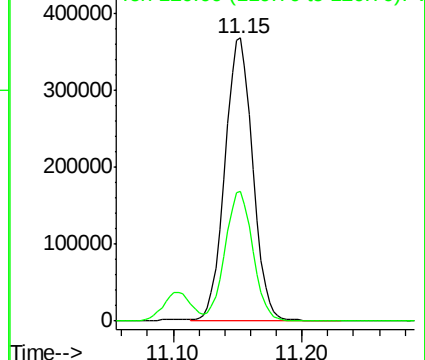
105 100

120 46.0 23.1 69.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#79

sec-Butylbenzene

Concen: 13.36 ug/l

RT: 11.33 min Scan# 3339

Delta R.T. 0.00 min

Lab File: VU023539.D

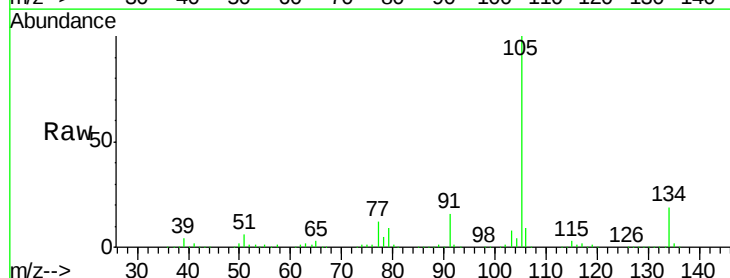
Acq: 30 Apr 2018 20:57

Tgt Ion:105 Resp: 769452

Ion Ratio Lower Upper

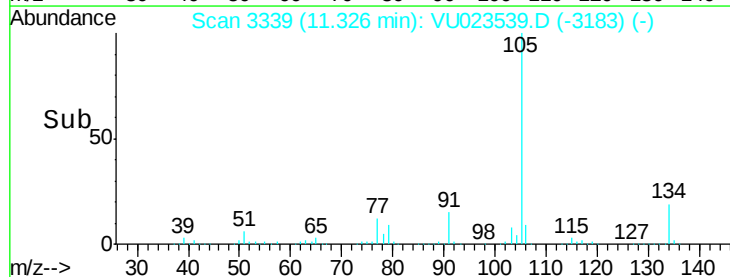
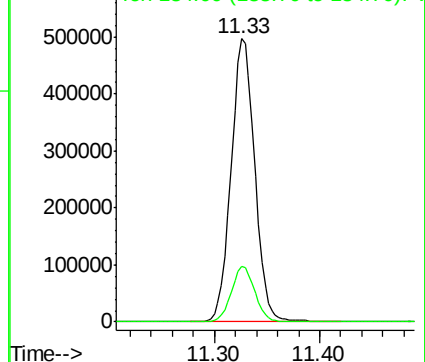
105 100

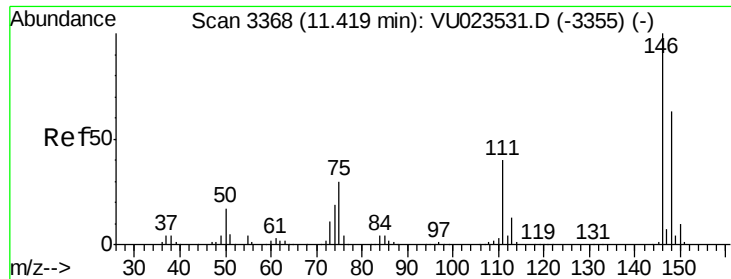
134 19.5 15.6 23.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





#82

1,3-Dichlorobenzene

Concen: 6.94 ug/l

RT: 11.42 min Scan# 3368

Delta R.T. -0.00 min

Lab File: VU023539.D

Acq: 30 Apr 2018 20:57

Instrument :

MSVOA_U

ClientSampled :

1221

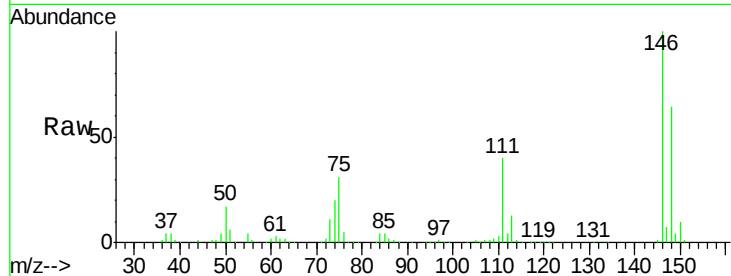
Tot Ion:146 Resp: 179652

Ion Ratio Lower Upper

146 100

111 39.8 31.8 47.6

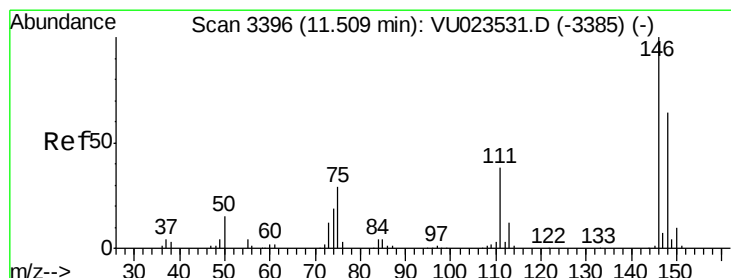
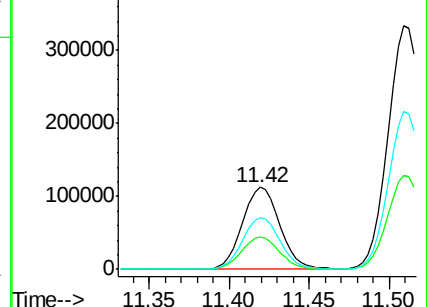
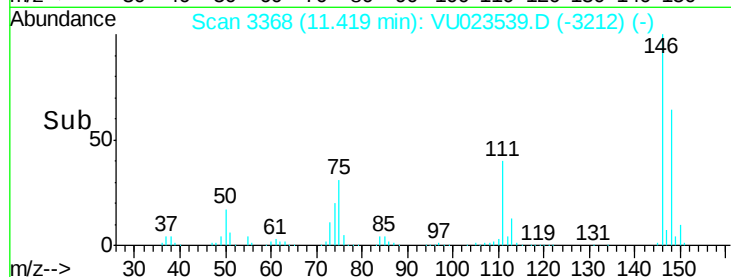
148 63.6 51.0 76.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#83

1,4-Dichlorobenzene

Concen: 20.54 ug/l

RT: 11.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VU023539.D

Acq: 30 Apr 2018 20:57

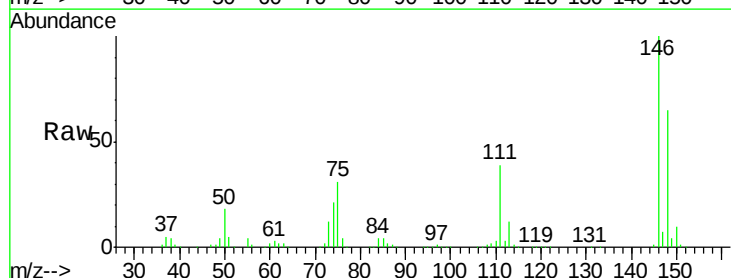
Tgt Ion:146 Resp: 531108

Ion Ratio Lower Upper

146 100

111 38.7 30.1 45.1

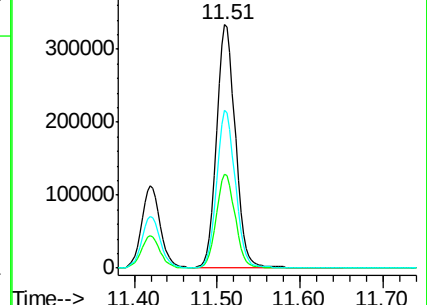
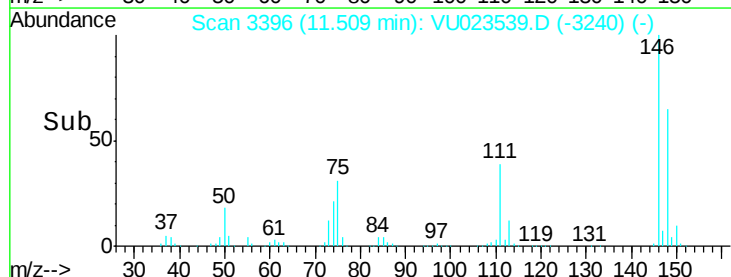
148 64.2 50.6 76.0

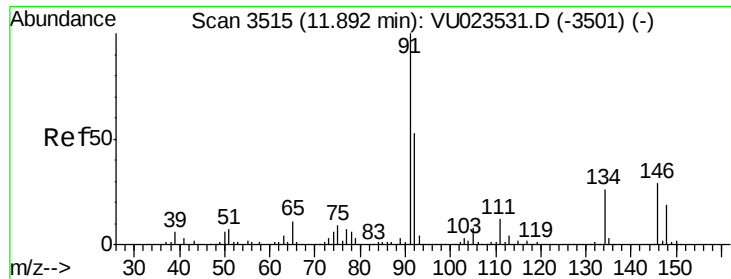


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

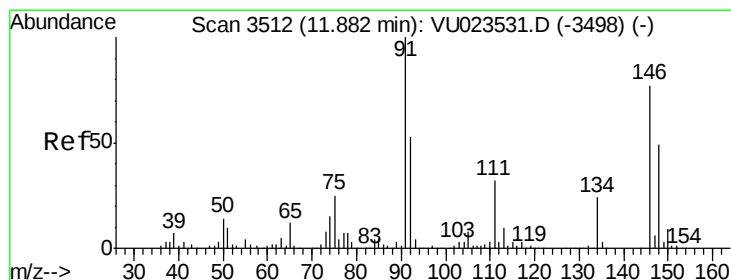
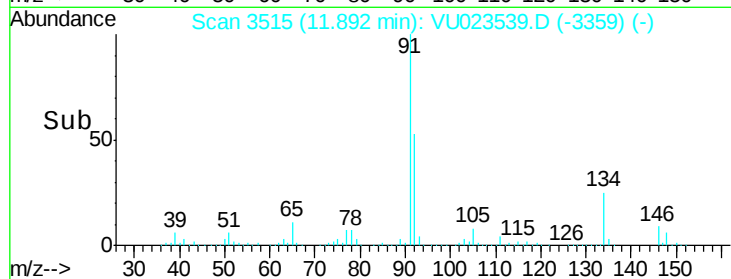
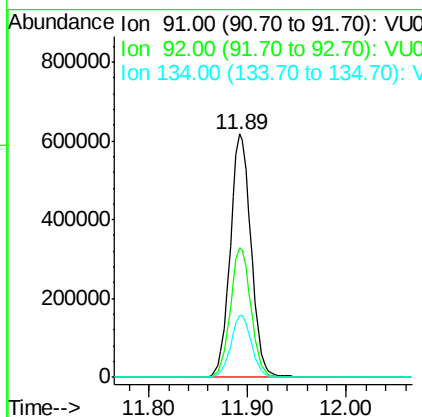
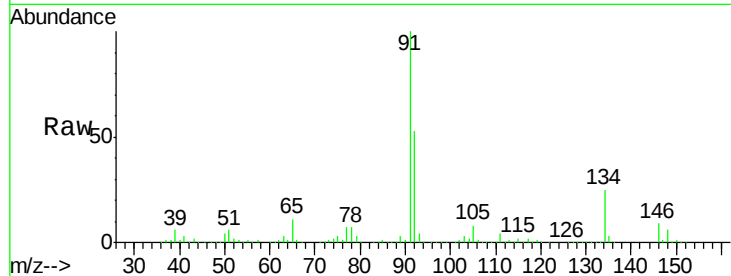




#84
n-Butylbenzene
Concen: 19.81 ug/l
RT: 11.89 min Scan# 3515
Delta R.T. -0.00 min
Lab File: VU023539.D
Acq: 30 Apr 2018 20:57

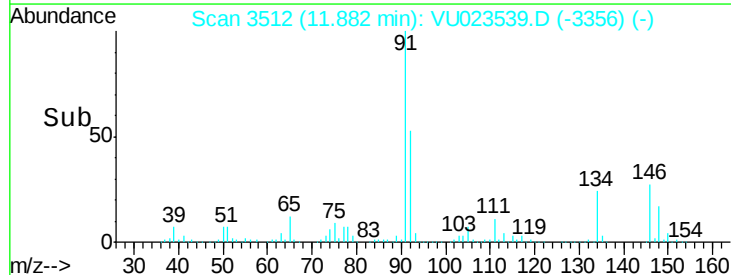
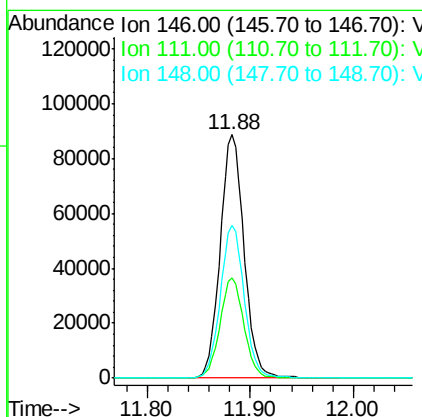
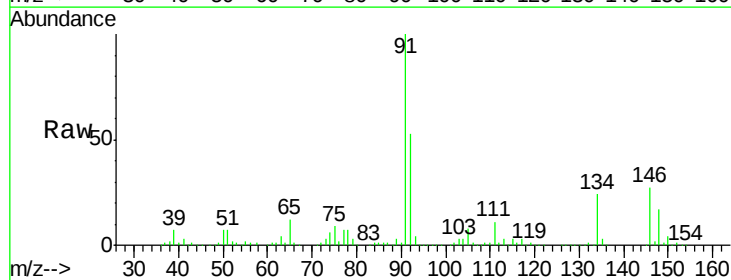
Instrument :
MSVOA_U
ClientSampleId :
1221

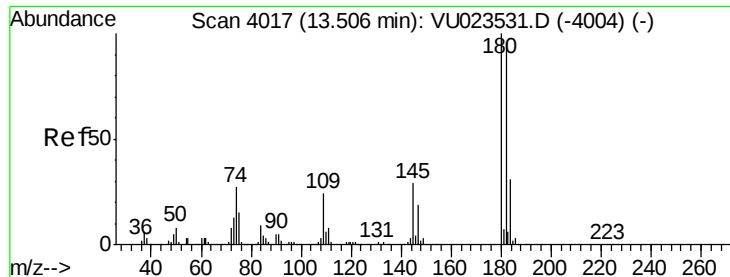
Tot Ion: 91 Resp: 915277
Ion Ratio Lower Upper
91 100
92 52.6 42.2 63.2
134 25.3 20.3 30.5



#85
1,2-Dichlorobenzene
Concen: 6.12 ug/l
RT: 11.88 min Scan# 3512
Delta R.T. 0.00 min
Lab File: VU023539.D
Acq: 30 Apr 2018 20:57

Tgt Ion: 146 Resp: 143046
Ion Ratio Lower Upper
146 100
111 41.2 20.7 62.1
148 62.9 31.9 95.5

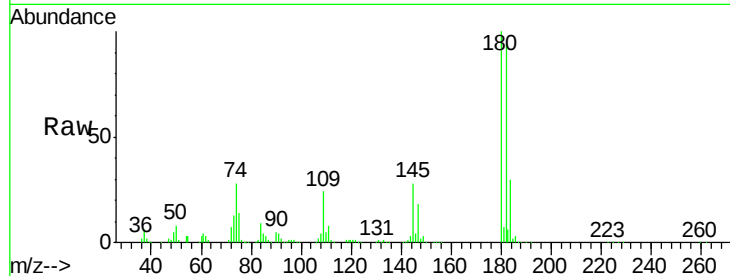




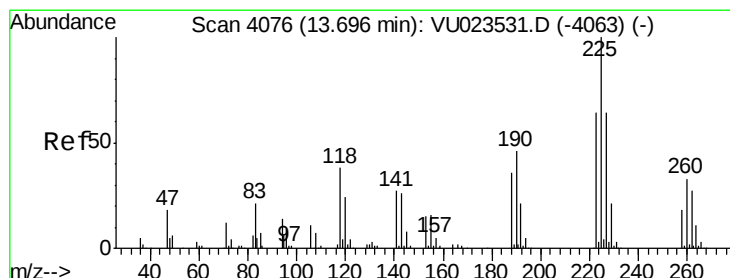
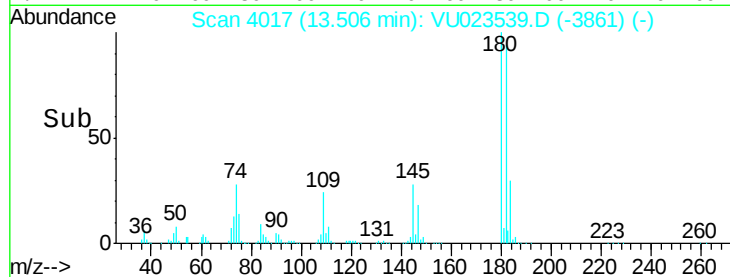
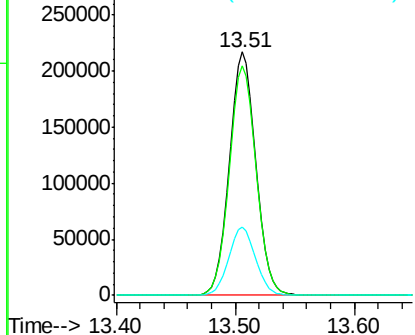
#87
 1,2,4-Trichlorobenzene
 Concen: 19.69 ug/l
 RT: 13.51 min Scan# 4017
 Delta R.T. -0.00 min
 Lab File: VU023539.D
 Acq: 30 Apr 2018 20:57

Instrument :
 MSVOA_U
 ClientSampled :
 1221

Tot Ion:180 Resp: 333001
 Ion Ratio Lower Upper
 180 100
 182 95.7 77.1 115.7
 145 28.5 23.3 34.9

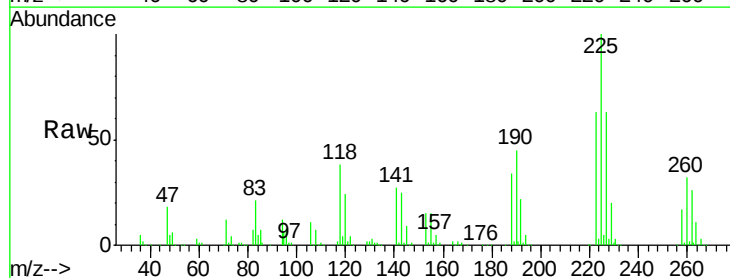


Abundance Ion 179.70 (179.40 to 180.40): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

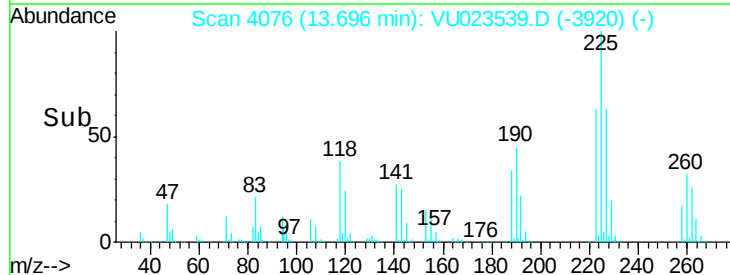
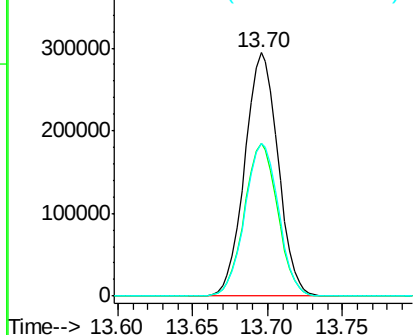


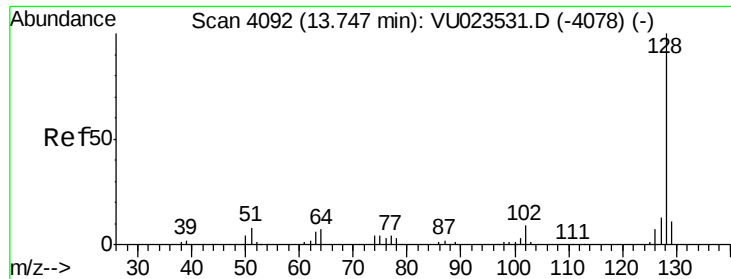
#88
 Hexachlorobutadiene
 Concen: 44.52 ug/l
 RT: 13.70 min Scan# 4076
 Delta R.T. 0.00 min
 Lab File: VU023539.D
 Acq: 30 Apr 2018 20:57

Tgt Ion:225 Resp: 456421
 Ion Ratio Lower Upper
 225 100
 223 62.7 50.6 75.8
 227 63.4 51.8 77.6



Abundance Ion 224.60 (224.30 to 225.30): V
 Ion 222.60 (222.30 to 223.30): V
 Ion 226.60 (226.30 to 227.30): V





#89

Naphthalene

Concen: 34.16 ug/l

RT: 13.75 min Scan# 4092

Delta R.T. 0.00 min

Lab File: VU023539.D

Acq: 30 Apr 2018 20:57

Instrument :

MSVOA_U

ClientSampleId :

1221

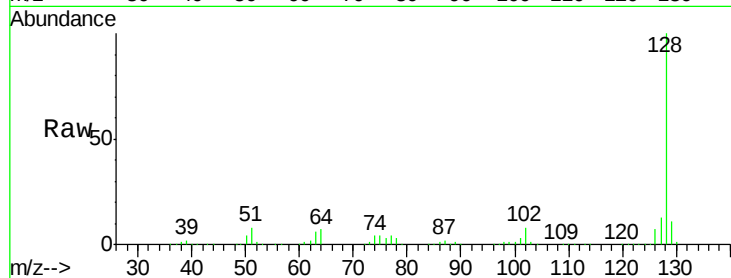
Tot Ion:128 Resp: 869959

Ion Ratio Lower Upper

128 100

127 13.1 10.5 15.7

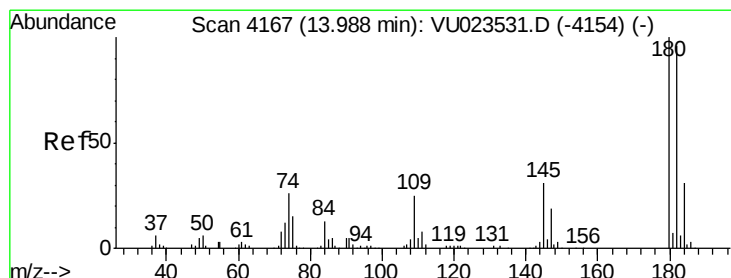
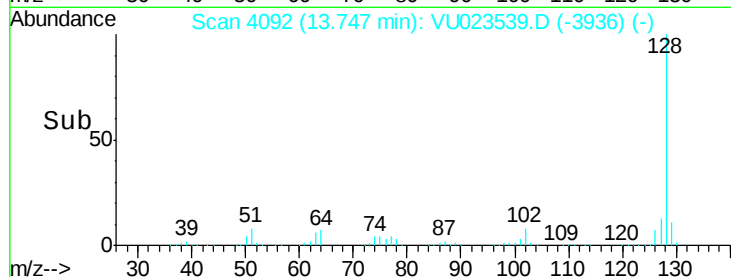
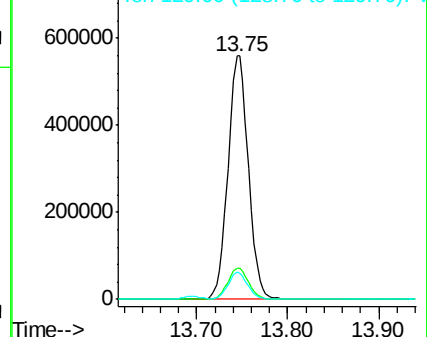
129 10.9 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#90

1,2,3-Trichlorobenzene

Concen: 31.86 ug/l

RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

Lab File: VU023539.D

Acq: 30 Apr 2018 20:57

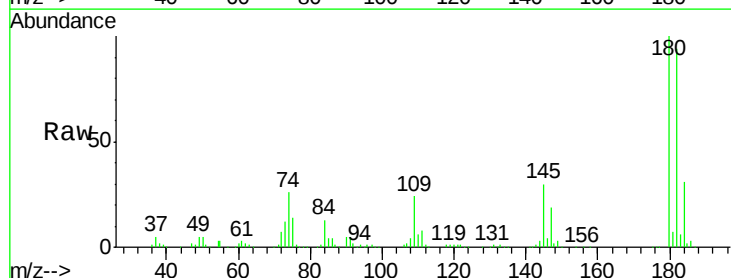
Tgt Ion:180 Resp: 505685

Ion Ratio Lower Upper

180 100

182 94.4 76.8 115.2

145 30.3 24.6 36.8



Abundance Ion 179.70 (179.40 to 180.40): V

Ion 181.70 (181.40 to 182.40): V

Ion 144.80 (144.50 to 145.50): V

