

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102318\
 Data File : VU027759.D
 Acq On : 23 Oct 2018 11:45
 Operator : MD/SY
 Sample : J5026-06
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 1721

Quant Time: Oct 24 09:20:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U0102318DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Oct 23 09:12:15 2018
 Response via : Initial Calibration

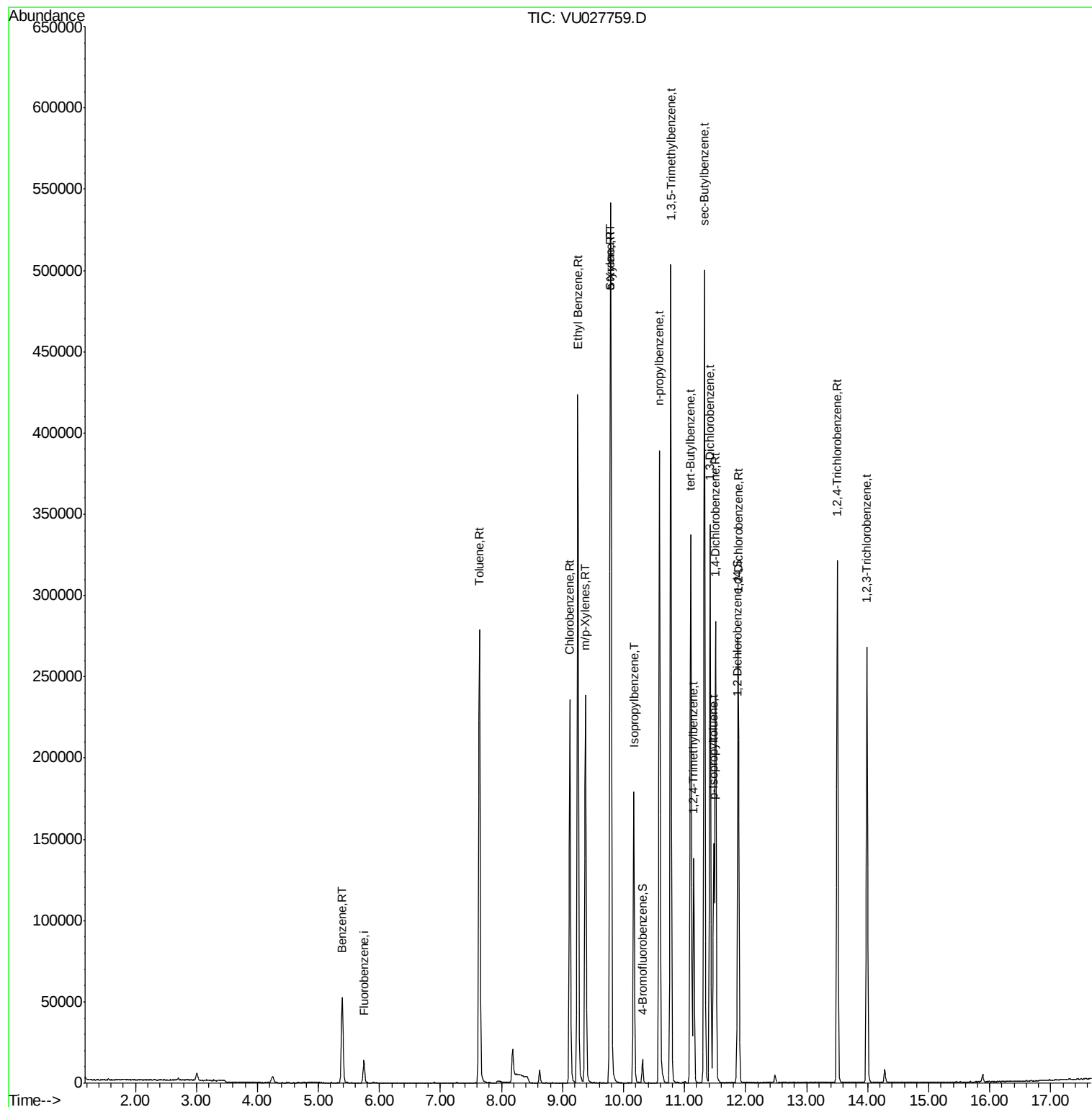
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.75	96	12903	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	4867	0.99	ug/l	0.00
Spiked Amount 1.000			Recovery	=	99.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	4492	0.97	ug/l	0.00
Spiked Amount 1.000			Recovery	=	97.00%	
Target Compounds					Ovalue	
35) Benzene	5.39	78	47739	3.192	ug/l	98
49) Toluene	7.64	92	112204	12.646	ug/l	99
59) Chlorobenzene	9.12	112	114665	12.058	ug/l	99
63) Ethyl Benzene	9.25	91	292743	16.253	ug/l	100
64) m/p-Xylenes	9.38	106	65007	10.114	ug/l	99
65) o-Xylene	9.78	106	62618	9.826	ug/l	98
66) Styrene	9.79	104	178888	17.011	ug/l	97
69) Isopropylbenzene	10.17	105	111451	6.389	ug/l	99
73) n-propylbenzene	10.59	120	62164	13.816	ug/l	97
75) 1,3,5-Trimethylbenzene	10.77	105	262460	18.029	ug/l	99
77) tert-Butylbenzene	11.10	119	152010	10.616	ug/l	90
78) 1,2,4-Trimethylbenzene	11.15	105	72326	4.836	ug/l	99
79) sec-Butylbenzene	11.32	105	325631	17.174	ug/l	100
81) p-Isopropyltoluene	11.48	119	75453	4.869	ug/l	99
82) 1,3-Dichlorobenzene	11.42	146	132008	17.162	ug/l	100
83) 1,4-Dichlorobenzene	11.51	146	104808	13.599	ug/l	99
85) 1,2-Dichlorobenzene	11.88	146	105853	14.423	ug/l	99
87) 1,2,4-Trichlorobenzene	13.50	180	94026	17.631	ug/l	100
90) 1,2,3-Trichlorobenzene	13.99	180	79673	15.700	ug/l	99
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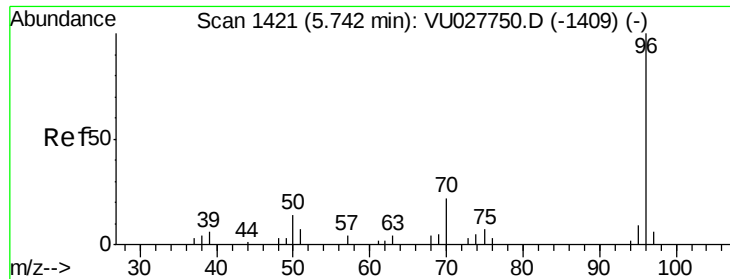
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Oct 23 09:12:15 2018
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#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.75 min Scan# 1422

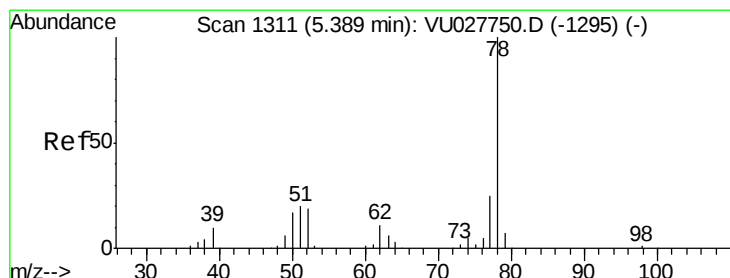
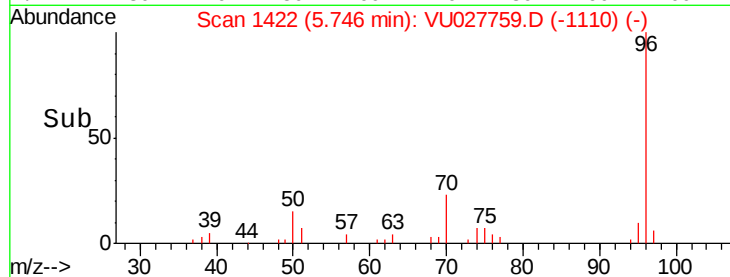
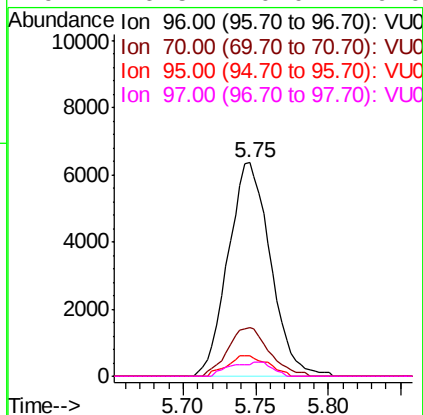
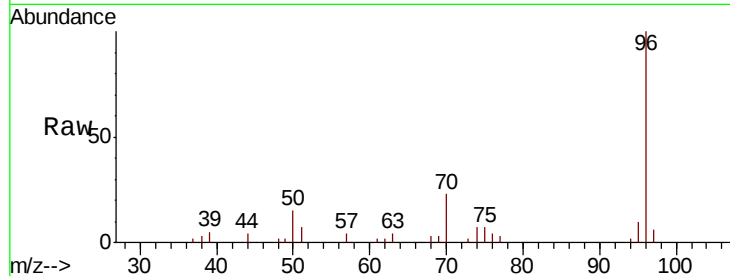
Delta R.T. 0.00 min

Lab File: VU027759.D

Acq: 23 Oct 2018 11:45

Instrument :
MSVOA_U
ClientSampleId :
1721

Tot Ion:	96	Resp:	12903
Ion	Ratio	Lower	Upper
96	100		
70	22.1	17.7	26.5
95	9.2	7.0	10.6
97	6.5	0.0	0.0#



#35

Benzene

Concen: 3.192 ug/l

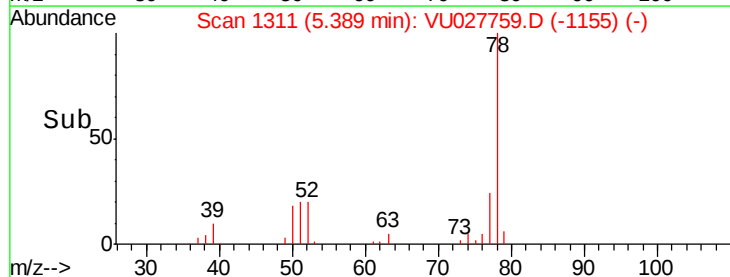
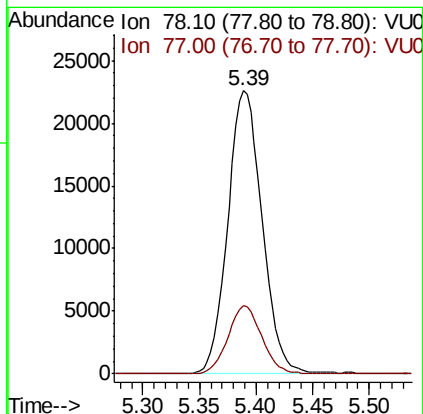
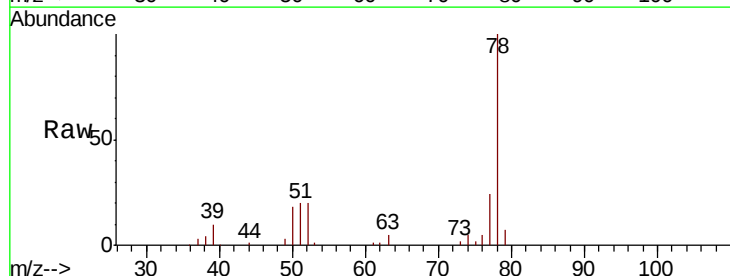
RT: 5.39 min Scan# 1311

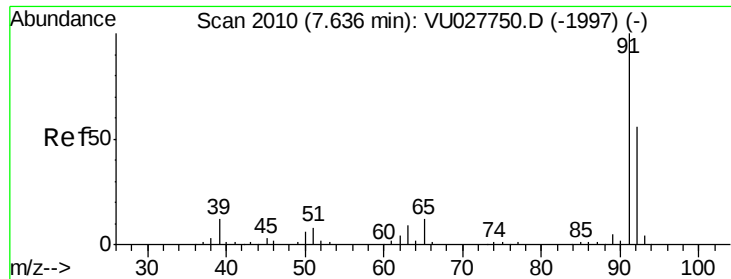
Delta R.T. 0.00 min

Lab File: VU027759.D

Acq: 23 Oct 2018 11:45

Tgt Ion:	78	Resp:	47739
Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.9	29.9





#49

Toluene

Concen: 12.646 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU027759.D

Acq: 23 Oct 2018 11:45

Instrument :

MSVOA_U

ClientSampled :

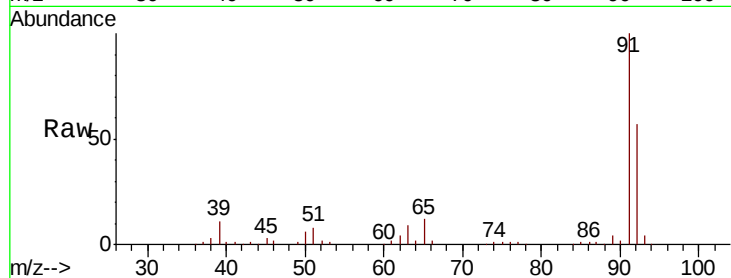
1721

Tot Ion: 92 Resp: 112204

Ion Ratio Lower Upper

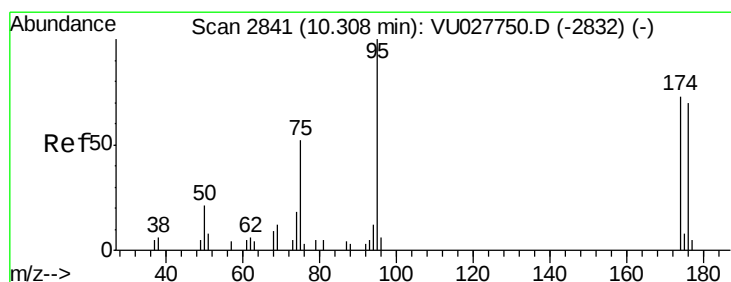
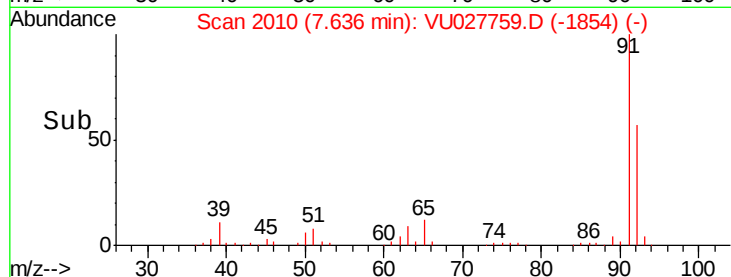
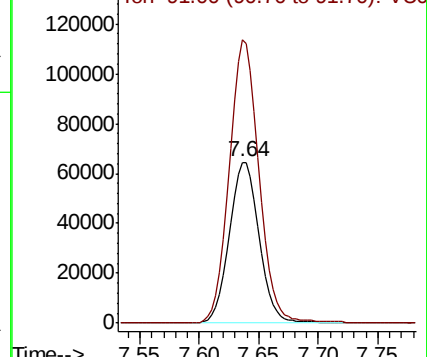
92 100

91 175.9 141.8 212.8



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# 2841

Delta R.T. 0.00 min

Lab File: VU027759.D

Acq: 23 Oct 2018 11:45

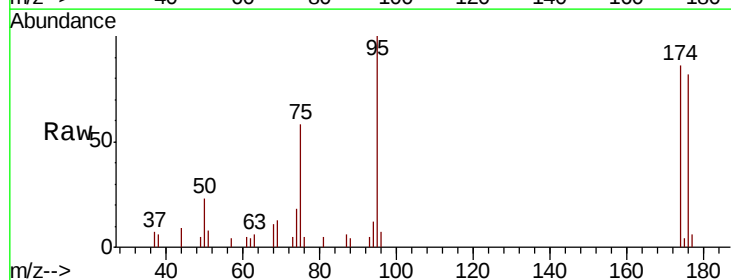
Tgt Ion: 95 Resp: 4867

Ion Ratio Lower Upper

95 100

174 81.3 64.5 96.7

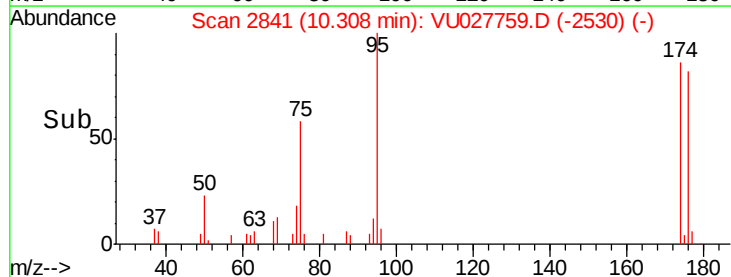
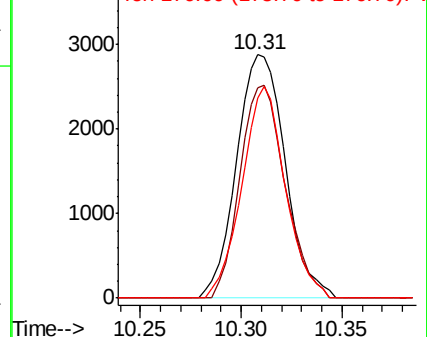
176 77.4 58.3 87.5

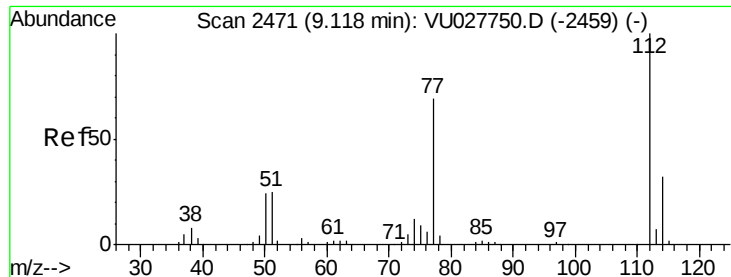


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#59

Chlorobenzene

Concen: 12.058 ug/l

RT: 9.12 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VU027759.D

Acq: 23 Oct 2018 11:45

Instrument :

MSVOA_U

ClientSampleId :

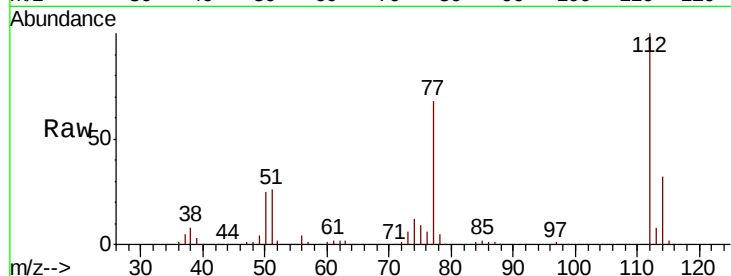
1721

Tot Ion:112 Resp: 114665

Ion Ratio Lower Upper

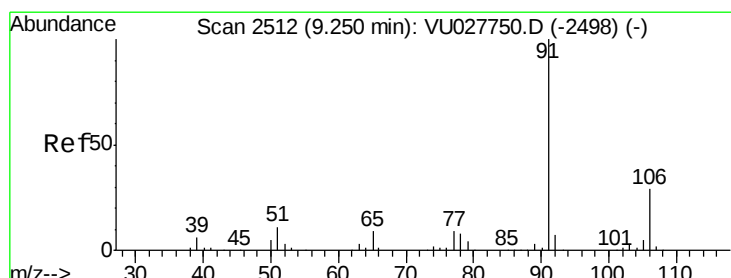
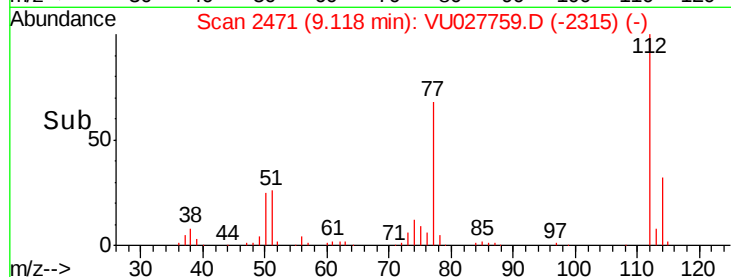
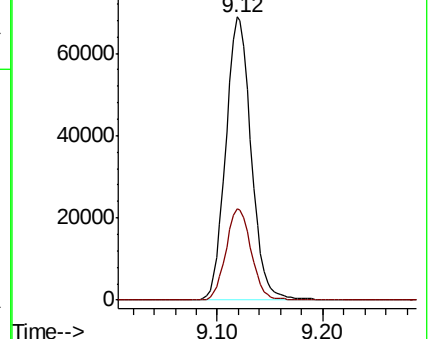
112 100

114 32.2 25.4 38.0



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#63

Ethyl Benzene

Concen: 16.253 ug/l

RT: 9.25 min Scan# 2512

Delta R.T. 0.00 min

Lab File: VU027759.D

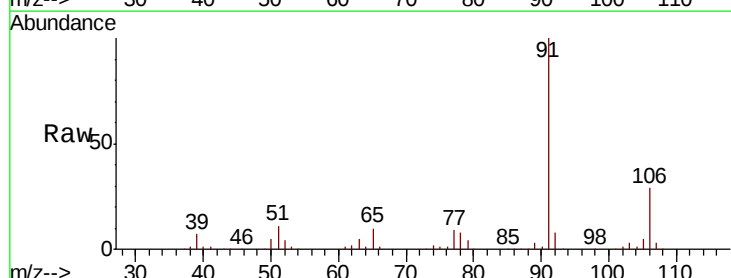
Acq: 23 Oct 2018 11:45

Tgt Ion: 91 Resp: 292743

Ion Ratio Lower Upper

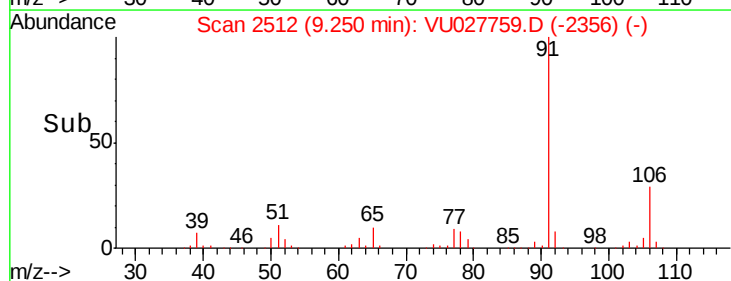
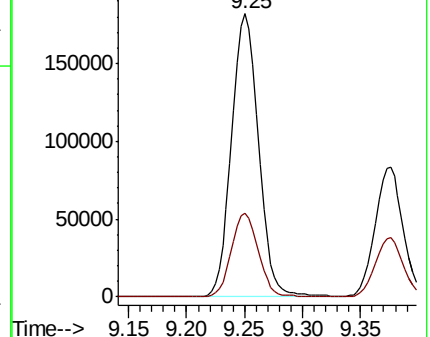
91 100

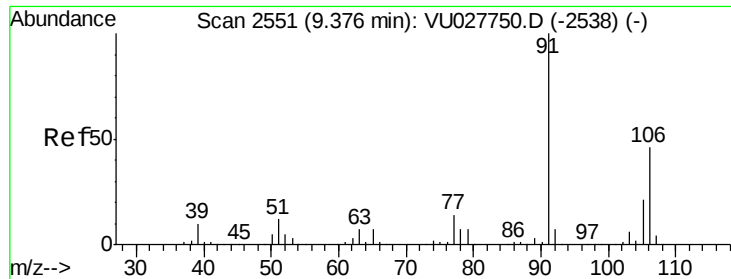
106 29.5 23.5 35.3



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V





#64

m/p-Xylenes

Concen: 10.114 ug/l

RT: 9.38 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VU027759.D

Acq: 23 Oct 2018 11:45

Instrument :

MSVOA_U

ClientSampled :

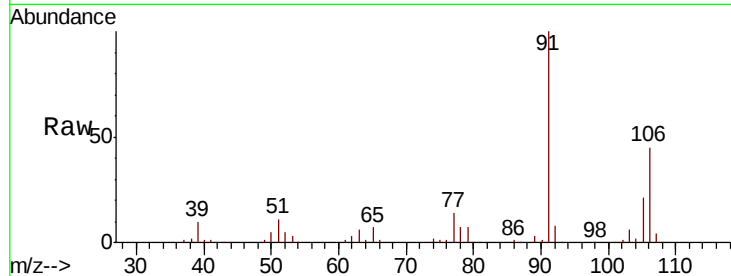
1721

Tot Ion:106 Resp: 65007

Ion Ratio Lower Upper

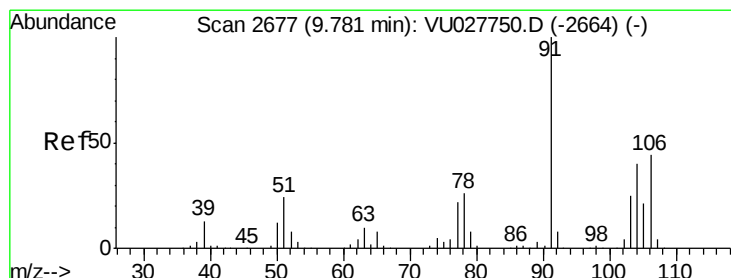
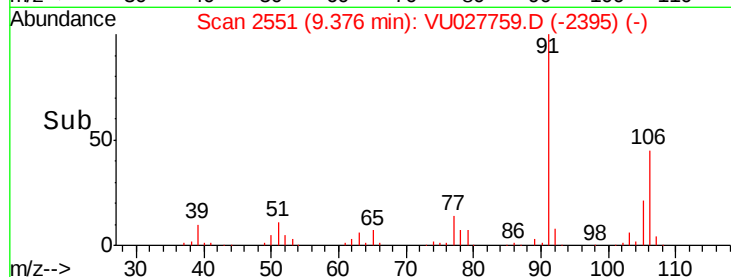
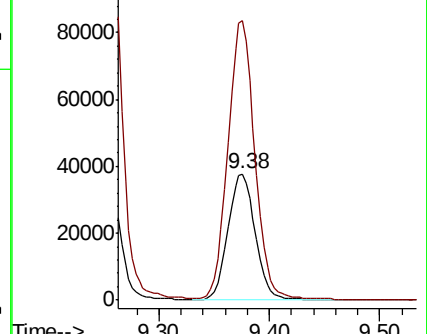
106 100

91 219.0 173.3 259.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#65

o-Xylene

Concen: 9.826 ug/l

RT: 9.78 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VU027759.D

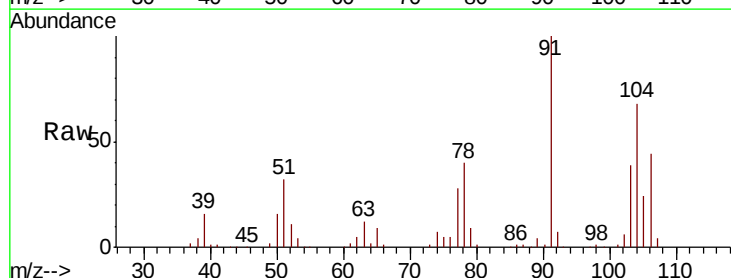
Acq: 23 Oct 2018 11:45

Tgt Ion:106 Resp: 62618

Ion Ratio Lower Upper

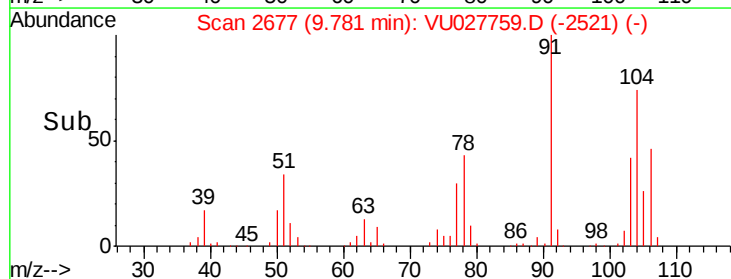
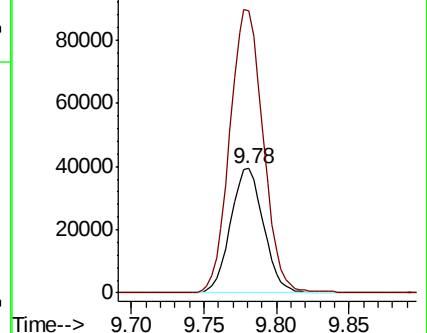
106 100

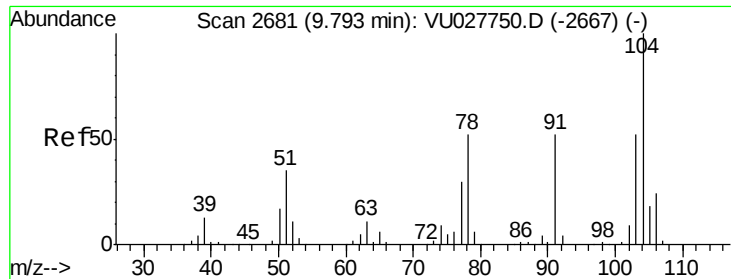
91 229.9 113.4 340.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#66

Stvrene

Concen: 17.011 ug/l

RT: 9.79 min Scan# 2681

Delta R.T. 0.00 min

Lab File: VU027759.D

Acq: 23 Oct 2018 11:45

Instrument :
MSVOA_U
ClientSampled :
1721

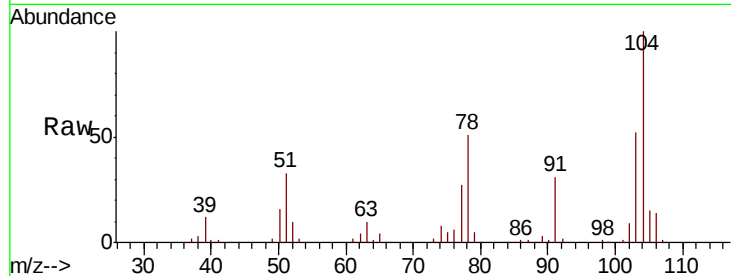
Tot Ion:104 Resp: 178888

Ion Ratio Lower Upper

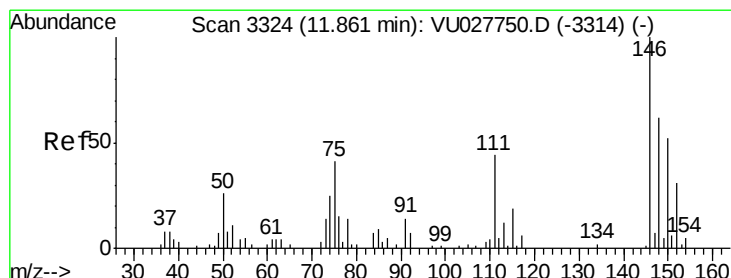
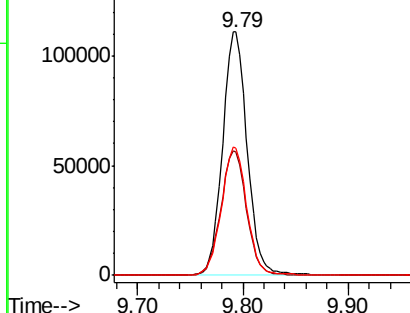
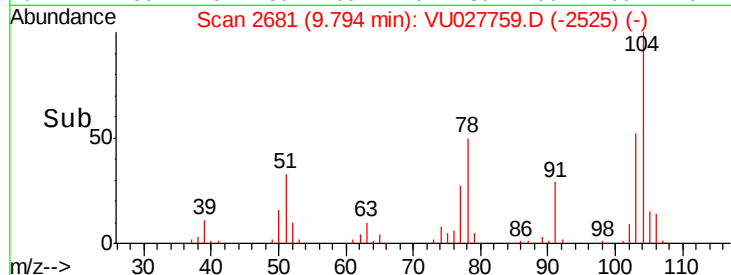
104 100

78 53.6 45.2 67.8

103 54.3 44.8 67.2



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# 3324

Delta R.T. 0.00 min

Lab File: VU027759.D

Acq: 23 Oct 2018 11:45

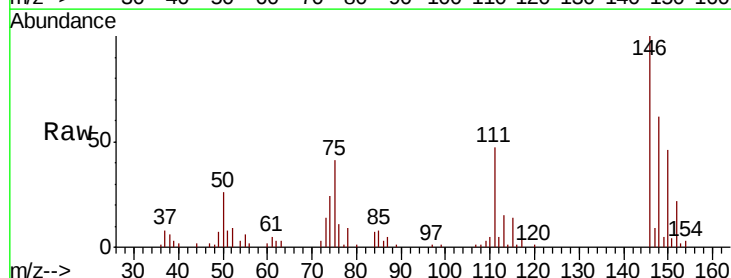
Tgt Ion:152 Resp: 4492

Ion Ratio Lower Upper

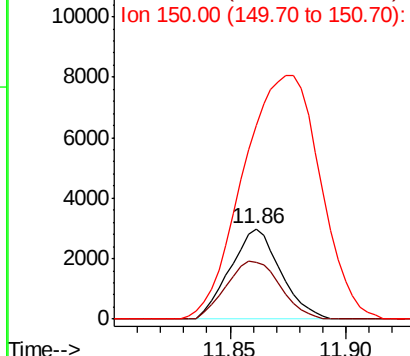
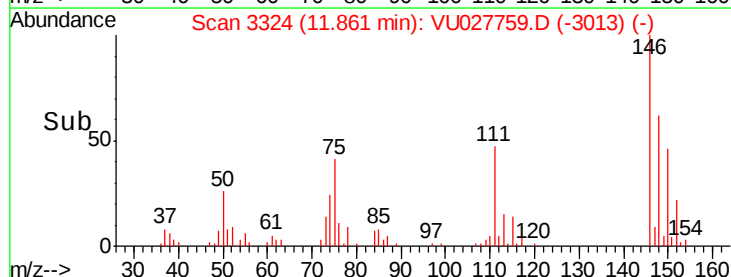
152 100

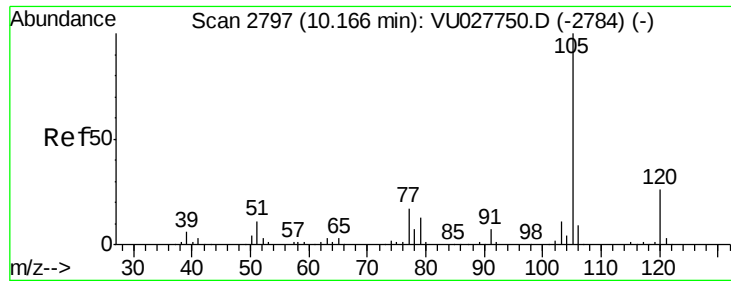
115 68.7 0.0 130.2

150 414.6 0.0 650.6



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





#69

Isopropylbenzene

Concen: 6.389 ug/l

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU027759.D

Acq: 23 Oct 2018 11:45

Instrument :

MSVOA_U

ClientSampled :

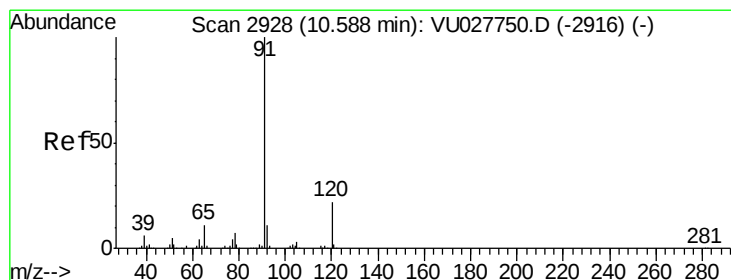
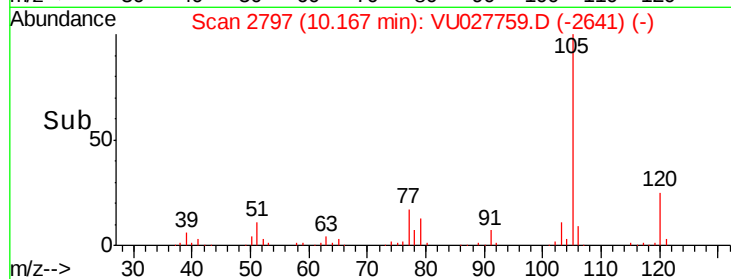
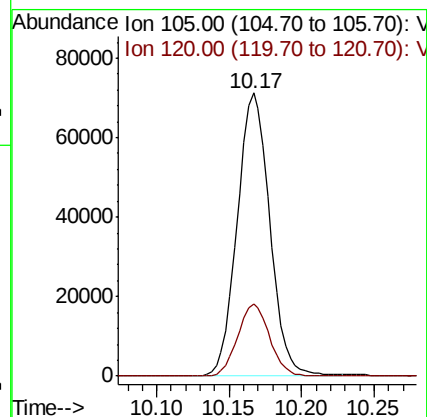
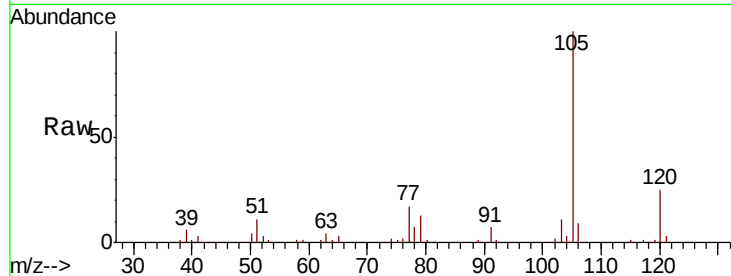
1721

Tot Ion:105 Resp: 111451

Ion Ratio Lower Upper

105 100

120 24.9 12.8 38.3



#73

n-propylbenzene

Concen: 13.816 ug/l

RT: 10.59 min Scan# 2928

Delta R.T. 0.00 min

Lab File: VU027759.D

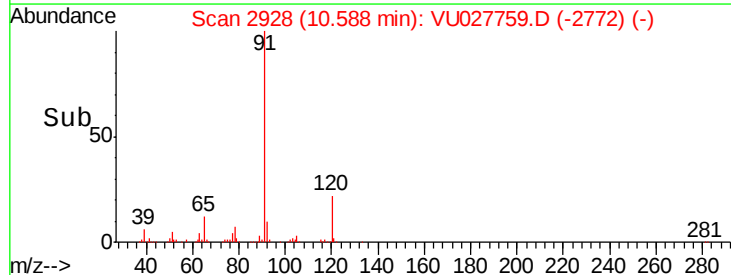
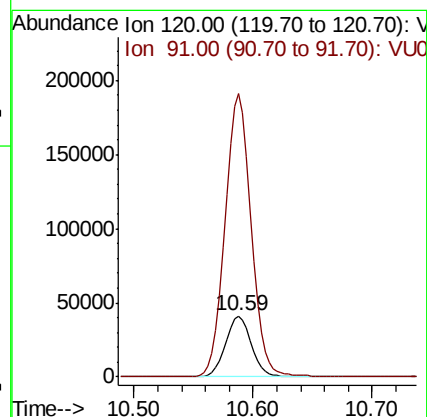
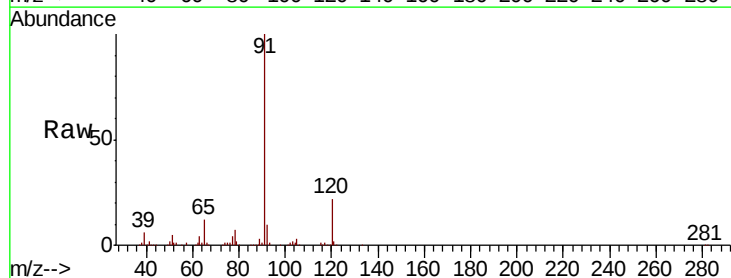
Acq: 23 Oct 2018 11:45

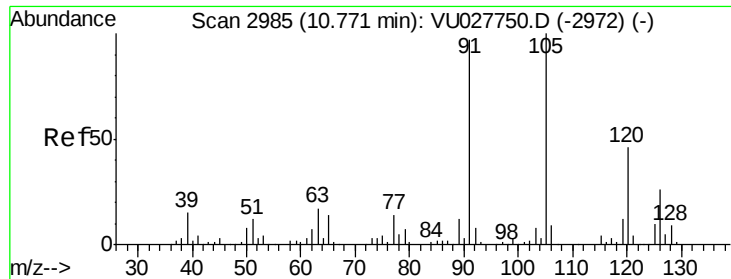
Tgt Ion:120 Resp: 62164

Ion Ratio Lower Upper

120 100

91 468.2 369.0 553.6





#75

1,3,5-Trimethylbenzene

Concen: 18.029 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. 0.00 min

Lab File: VU027759.D

Acq: 23 Oct 2018 11:45

Instrument :

MSVOA_U

ClientSampleId :

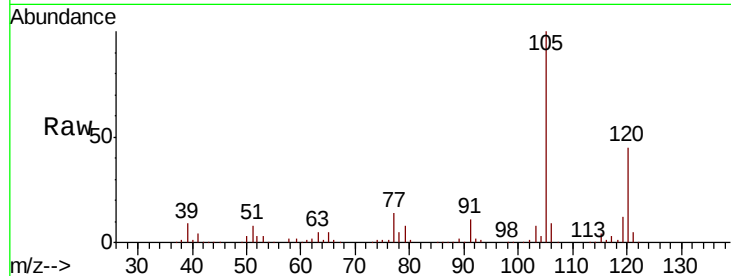
1721

Tot Ion:105 Resp: 262460

Ion Ratio Lower Upper

105 100

120 46.0 37.2 55.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

200000

150000

100000

50000

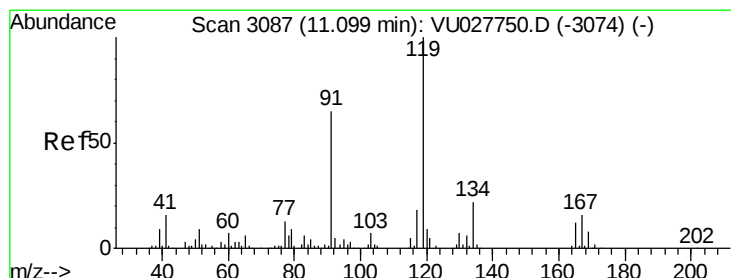
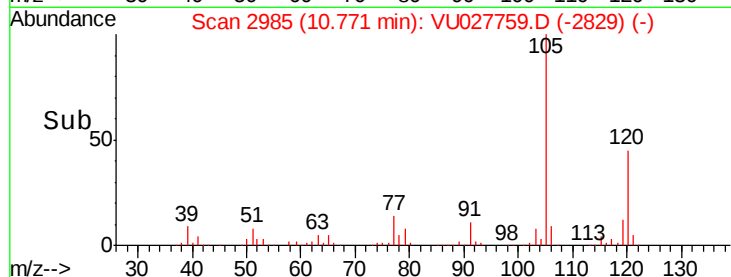
0

10.77

10.80

10.90

Time-->



#77

tert-Butylbenzene

Concen: 10.616 ug/l

RT: 11.10 min Scan# 3087

Delta R.T. 0.00 min

Lab File: VU027759.D

Acq: 23 Oct 2018 11:45

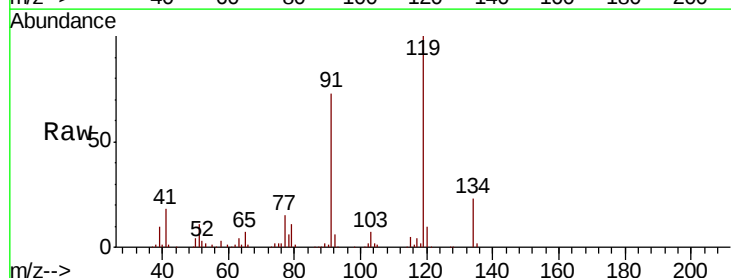
Tgt Ion:119 Resp: 152010

Ion Ratio Lower Upper

119 100

91 73.4 31.8 95.4

134 23.2 17.7 26.5



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VU0

Ion 134.00 (133.70 to 134.70): V

120000

100000

80000

60000

40000

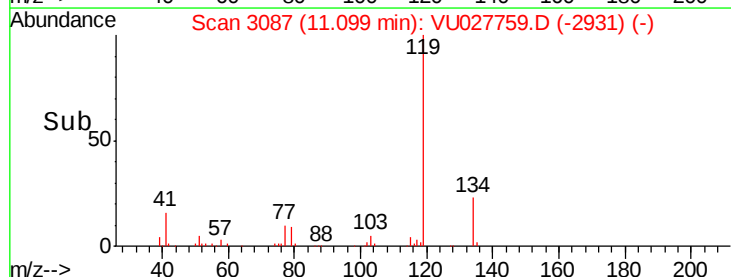
20000

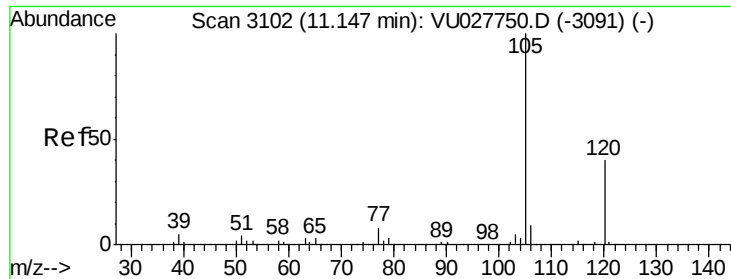
0

11.10

11.15

Time-->

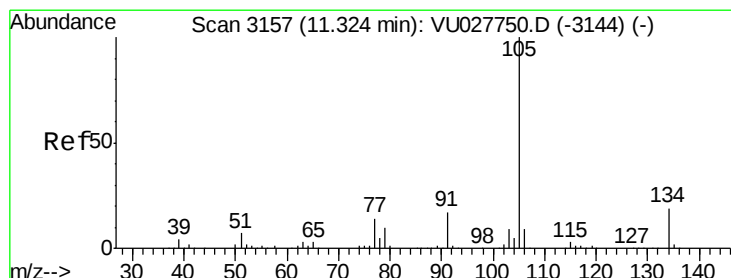
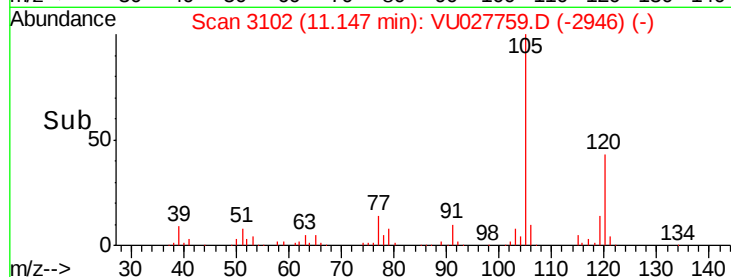
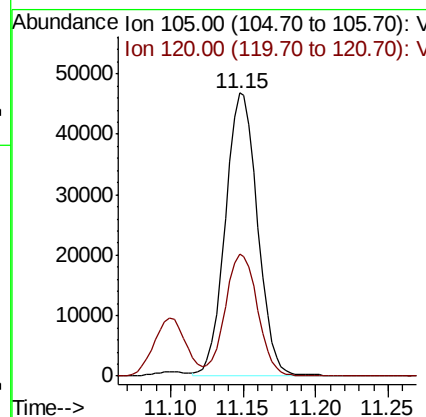
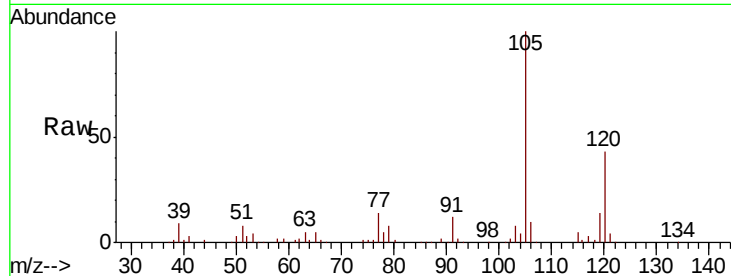




#78
 1,2,4-Trimethylbenzene
 Concen: 4.836 ug/l
 RT: 11.15 min Scan# 3102
 Delta R.T. 0.00 min
 Lab File: VU027759.D
 Acq: 23 Oct 2018 11:45

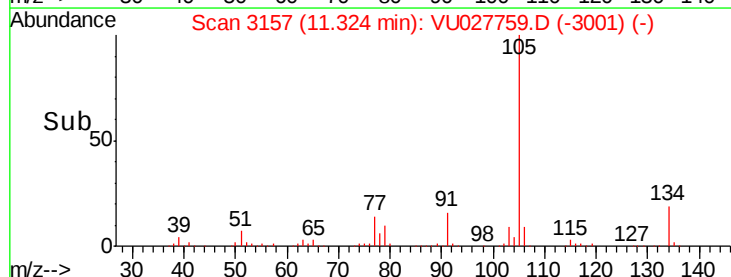
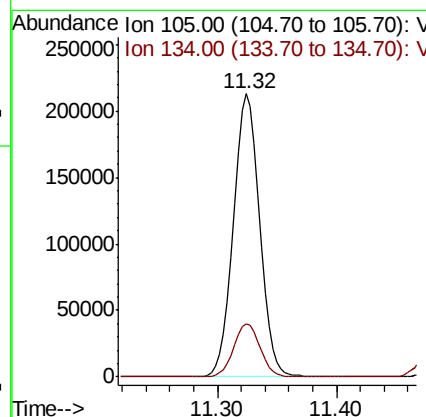
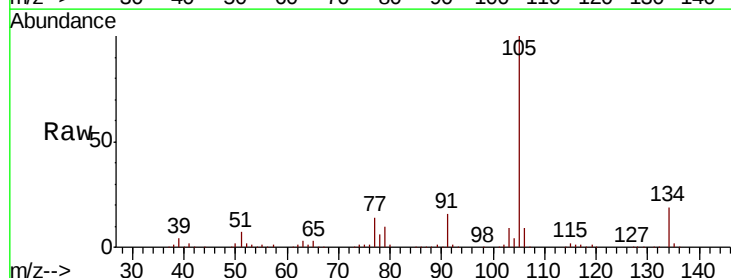
Instrument :
 MSVOA_U
 ClientSampleId :
 1721

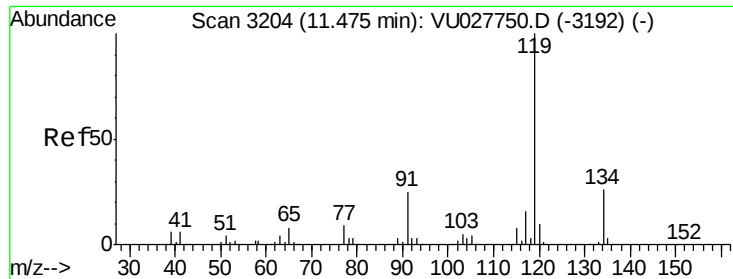
Tot Ion:105 Resp: 72326
 Ion Ratio Lower Upper
 105 100
 120 43.5 21.6 64.6



#79
 sec-Butylbenzene
 Concen: 17.174 ug/l
 RT: 11.32 min Scan# 3157
 Delta R.T. 0.00 min
 Lab File: VU027759.D
 Acq: 23 Oct 2018 11:45

Tgt Ion:105 Resp: 325631
 Ion Ratio Lower Upper
 105 100
 134 18.9 15.2 22.8

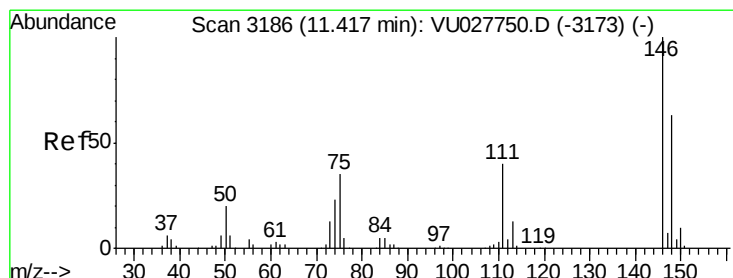
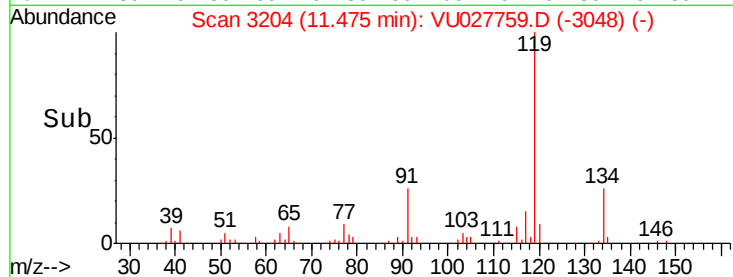
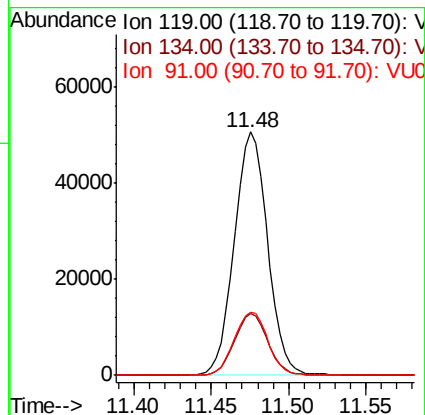
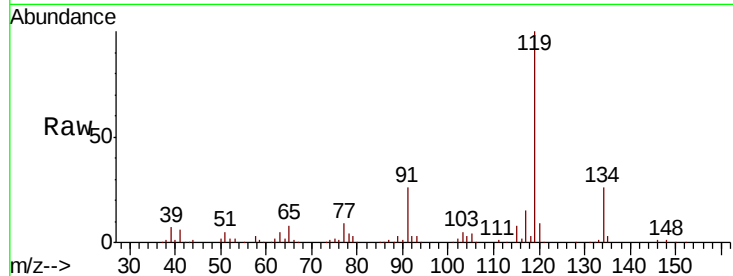




#81
 p-Isopropyltoluene
 Concen: 4.869 ug/l
 RT: 11.48 min Scan# 3204
 Delta R.T. 0.00 min
 Lab File: VU027759.D
 Acq: 23 Oct 2018 11:45

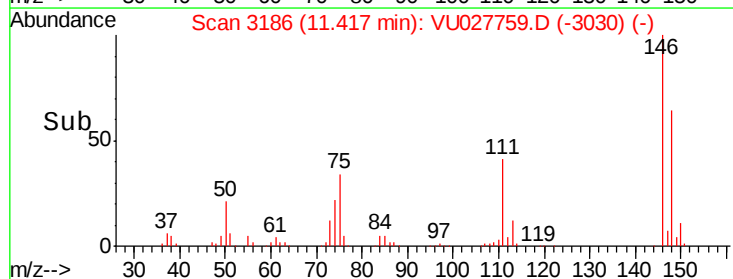
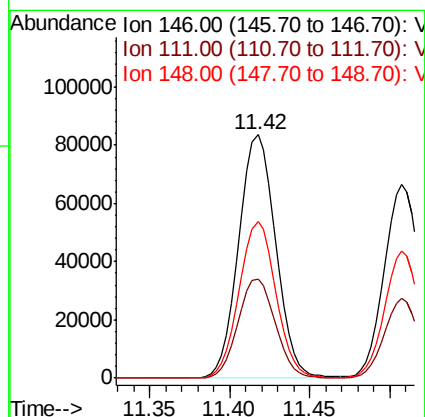
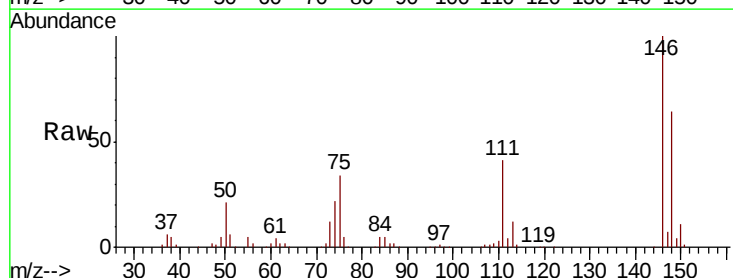
Instrument :
 MSVOA_U
 ClientSampleId :
 1721

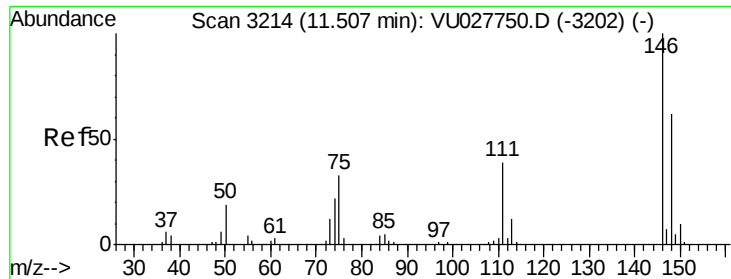
Tot Ion:119 Resp: 75453
 Ion Ratio Lower Upper
 119 100
 134 25.5 20.3 30.5
 91 26.3 20.2 30.4



#82
 1,3-Dichlorobenzene
 Concen: 17.162 ug/l
 RT: 11.42 min Scan# 3186
 Delta R.T. 0.00 min
 Lab File: VU027759.D
 Acq: 23 Oct 2018 11:45

Tgt Ion:146 Resp: 132008
 Ion Ratio Lower Upper
 146 100
 111 41.0 32.7 49.1
 148 63.7 50.6 75.8

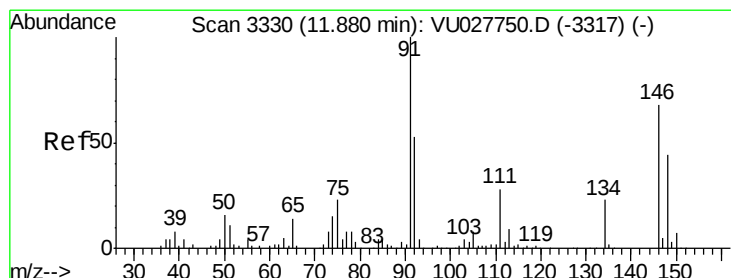
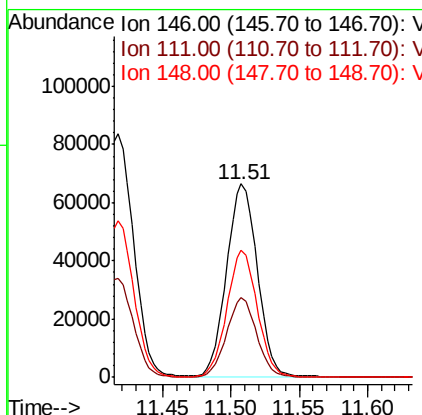
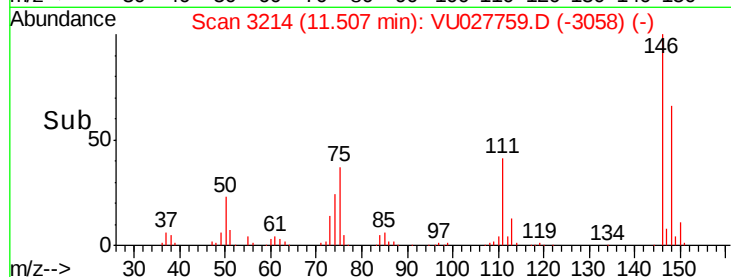
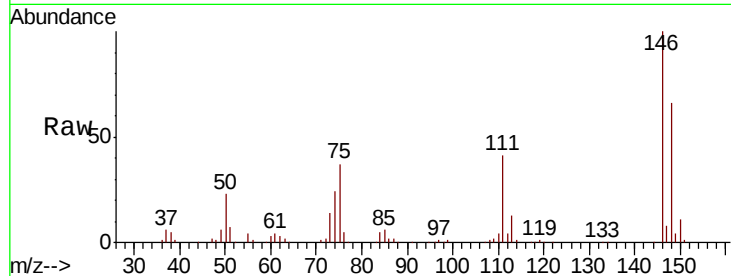




#83
 1,4-Dichlorobenzene
 Concen: 13.599 ug/l
 RT: 11.51 min Scan# 3214
 Delta R.T. 0.00 min
 Lab File: VU027759.D
 Acq: 23 Oct 2018 11:45

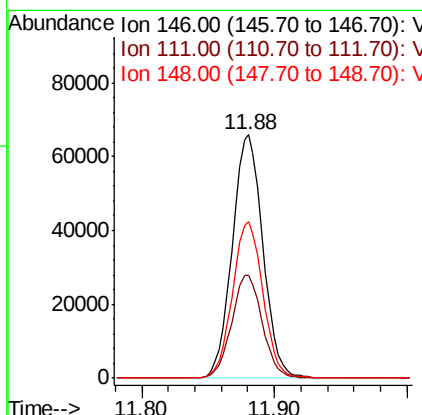
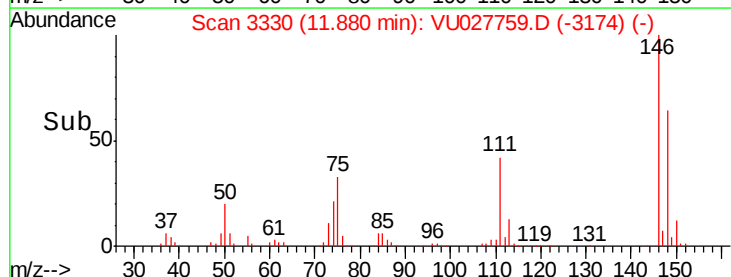
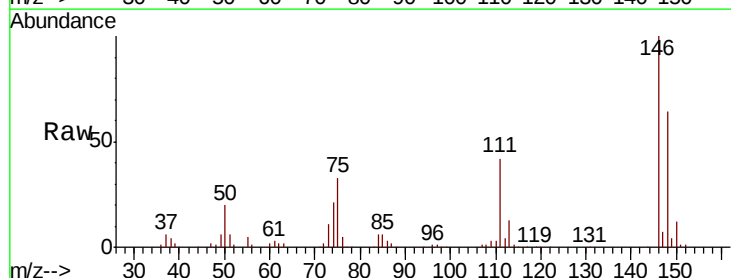
Instrument :
 MSVOA_U
 ClientSampled :
 1721

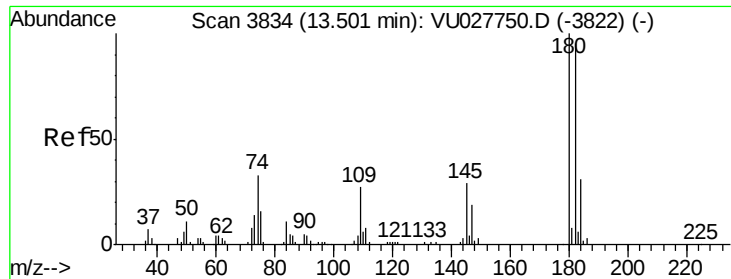
Tot Ion:146 Resp: 104808
 Ion Ratio Lower Upper
 146 100
 111 40.2 32.0 48.0
 148 64.7 50.9 76.3



#85
 1,2-Dichlorobenzene
 Concen: 14.423 ug/l
 RT: 11.88 min Scan# 3330
 Delta R.T. 0.00 min
 Lab File: VU027759.D
 Acq: 23 Oct 2018 11:45

Tgt Ion:146 Resp: 105853
 Ion Ratio Lower Upper
 146 100
 111 42.3 21.2 63.6
 148 63.8 32.2 96.6

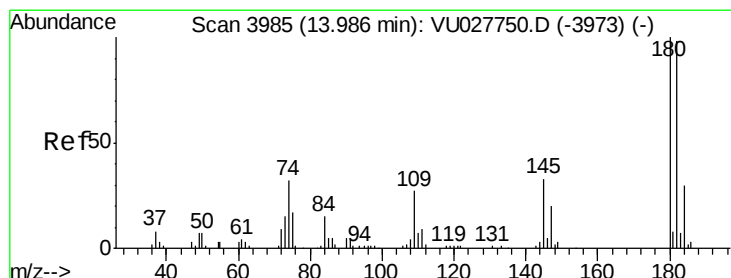
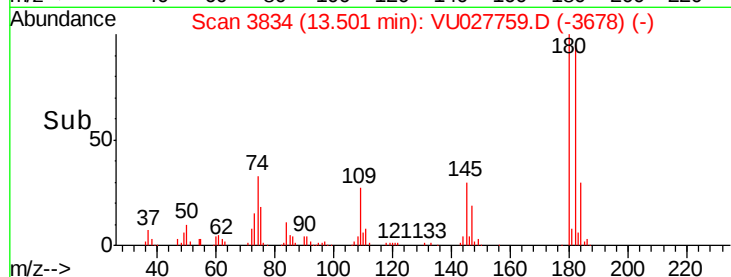
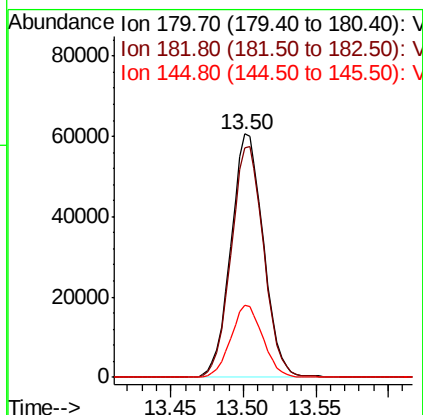
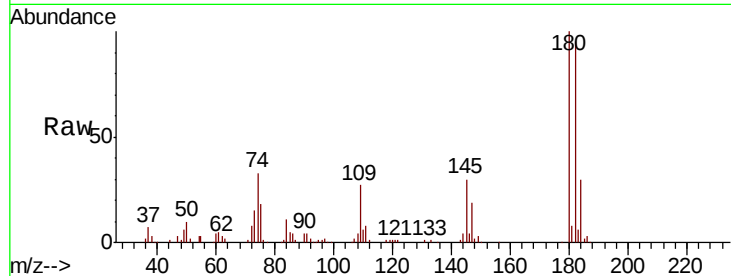




#87
 1,2,4-Trichlorobenzene
 Concen: 17.631 ug/l
 RT: 13.50 min Scan# 3834
 Delta R.T. 0.00 min
 Lab File: VU027759.D
 Acq: 23 Oct 2018 11:45

Instrument :
 MSVOA_U
 ClientSampleId :
 1721

Tot Ion:180 Resp: 94026
 Ion Ratio Lower Upper
 180 100
 182 95.3 75.9 113.9
 145 29.3 23.6 35.4



#90
 1,2,3-Trichlorobenzene
 Concen: 15.700 ug/l
 RT: 13.99 min Scan# 3985
 Delta R.T. 0.00 min
 Lab File: VU027759.D
 Acq: 23 Oct 2018 11:45

Tgt Ion:180 Resp: 79673
 Ion Ratio Lower Upper
 180 100
 182 94.7 77.0 115.6
 145 31.2 25.4 38.2

