

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU100318\
 Data File : VU027361.D
 Acq On : 03 Oct 2018 15:32
 Operator : MD/SY
 Sample : J5229-01
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 38022-121917

Quant Time: Oct 03 15:59:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U100318DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Wed Oct 03 09:31:21 2018
 Response via : Initial Calibration

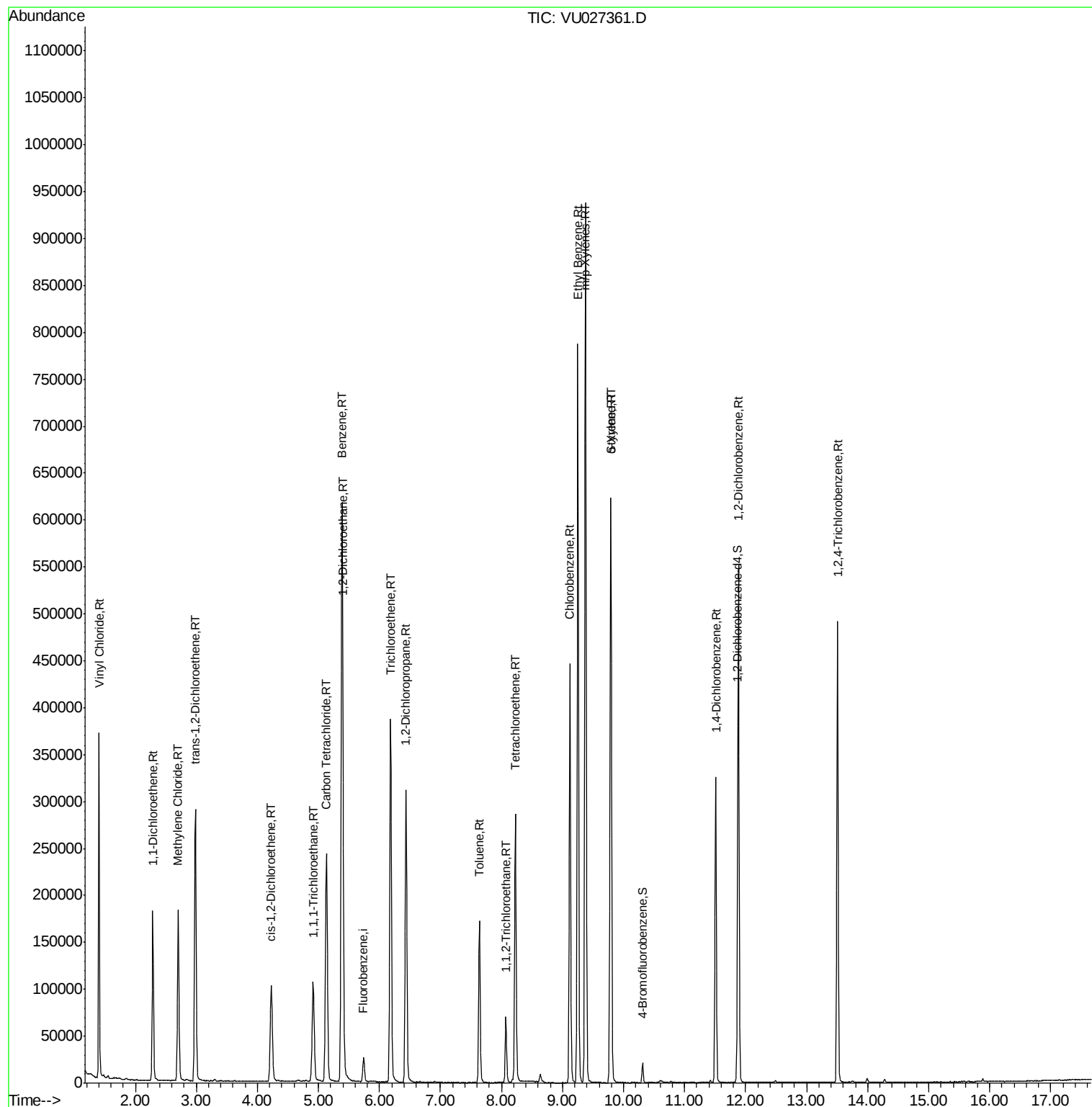
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.74	96	22383	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	7079	0.84	ug/l	0.00
Spiked Amount 1.000			Recovery	=	84.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	6426	0.89	ug/l	0.00
Spiked Amount 1.000			Recovery	=	89.00%	
Target Compounds						
					Ovalue	
4) Vinyl Chloride	1.40	62	236978	26.718	ug/l	100
9) 1,1-Dichloroethene	2.29	96	51275	10.184	ug/l	98
15) Methylene Chloride	2.70	84	70920	10.873	ug/l	99
16) trans-1,2-Dichloroethene	2.98	96	101487	17.329	ug/l	97
22) cis-1,2-Dichloroethene	4.23	96	49902	7.072	ug/l	85
28) 1,1,1-Trichloroethane	4.91	97	80403	7.681	ug/l	99
30) Carbon Tetrachloride	5.13	117	172203	19.891	ug/l	99
35) Benzene	5.39	78	556649	20.193	ug/l	100
36) 1,2-Dichloroethane	5.41	62	53862	5.960	ug/l	98
37) Trichloroethene	6.18	130	124902	20.410	ug/l	99
38) 1,2-Dichloropropane	6.44	63	121615	14.593	ug/l	99
49) Toluene	7.64	92	68081	4.517	ug/l	96
52) 1,1,2-Trichloroethane	8.07	97	20450	4.190	ug/l	99
58) Tetrachloroethene	8.22	164	61496	11.335	ug/l	98
59) Chlorobenzene	9.12	112	219389	13.957	ug/l	98
63) Ethyl Benzene	9.25	91	514203	19.056	ug/l	99
64) m/p-Xylenes	9.38	106	243986	24.118	ug/l	99
65) o-Xylene	9.78	106	57774	6.016	ug/l	96
66) Styrene	9.79	104	214599	12.732	ug/l	96
83) 1,4-Dichlorobenzene	11.51	146	119912	9.310	ug/l	99
85) 1,2-Dichlorobenzene	11.88	146	201424	16.920	ug/l	100
87) 1,2,4-Trichlorobenzene	13.50	180	138833	18.398	ug/l	99
-----	-----	-----	-----	-----	-----	-----

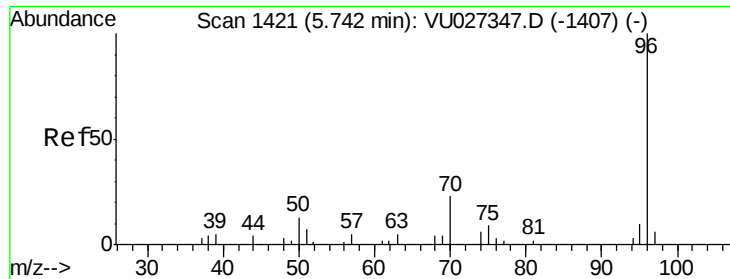
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Oct 03 09:31:21 2018
Response via : Initial Calibration





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1420

Delta R.T. -0.00 min

Lab File: VU027361.D

Acq: 03 Oct 2018 15:32

Instrument :

MSVOA_U

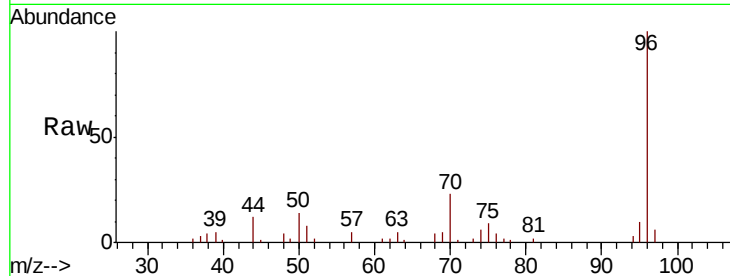
ClientSampleId :

38022-121917

Tot Ion: 96 Resp: 22383

Ion Ratio Lower Upper

96	100		
70	23.7	19.2	28.8
95	0.0	7.7	11.5#
97	0.0	0.0	0.0

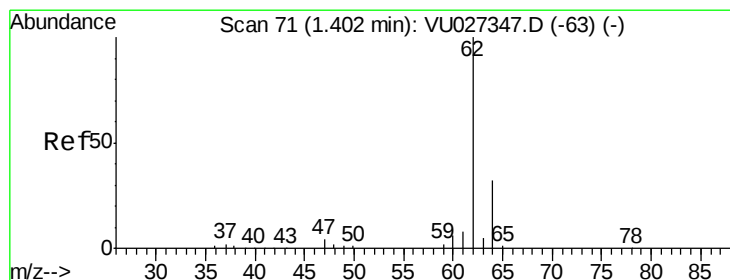
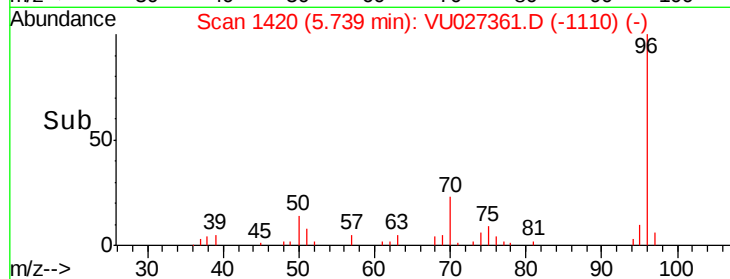
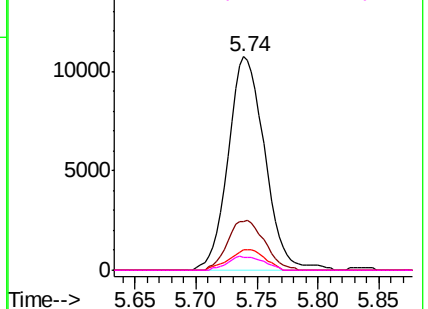


Abundance Ion 96.00 (95.70 to 96.70): VU027347.D (-1407) (-)

Ion 70.00 (69.70 to 70.70): VU027347.D (-1407) (-)

Ion 95.00 (94.70 to 95.70): VU027347.D (-1407) (-)

Ion 97.00 (96.70 to 97.70): VU027347.D (-1407) (-)



#4

Vinyl Chloride

Concen: 26.718 ug/l

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

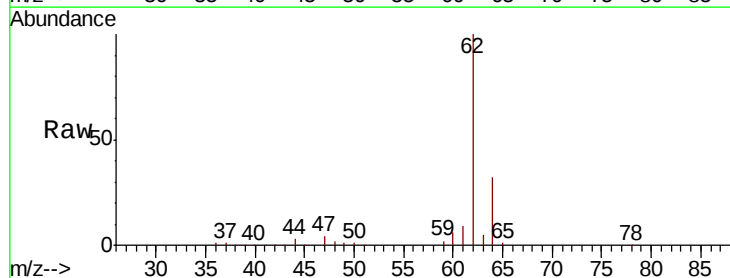
Lab File: VU027361.D

Acq: 03 Oct 2018 15:32

Tgt Ion: 62 Resp: 236978

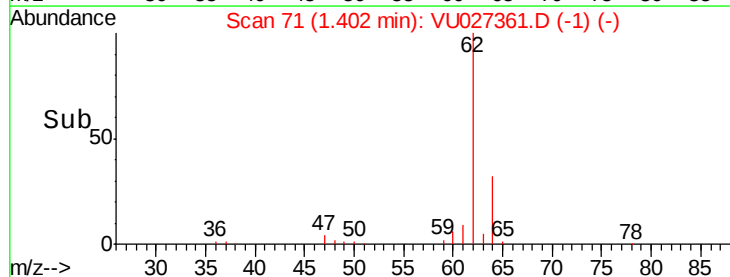
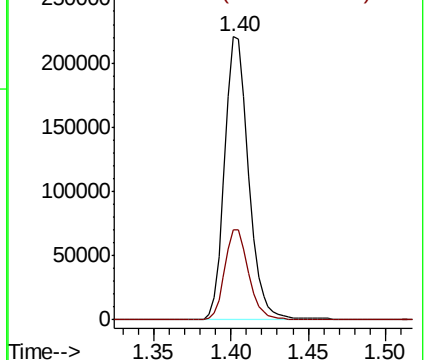
Ion Ratio Lower Upper

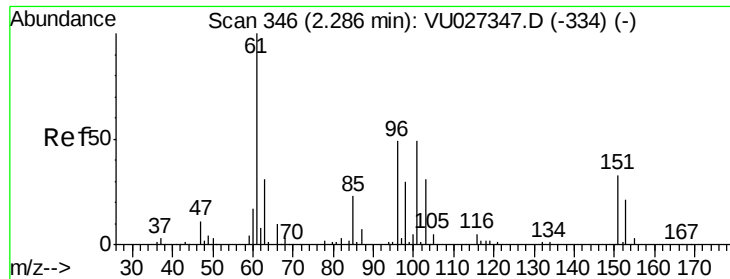
62	100		
64	31.8	25.6	38.4



Abundance Ion 62.00 (61.70 to 62.70): VU027347.D (-63) (-)

Ion 64.00 (63.70 to 64.70): VU027347.D (-63) (-)





#9

1,1-Dichloroethene

Concen: 10.184 ug/l

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU027361.D

Acq: 03 Oct 2018 15:32

Instrument :

MSVOA_U

ClientSampleId :

38022-121917

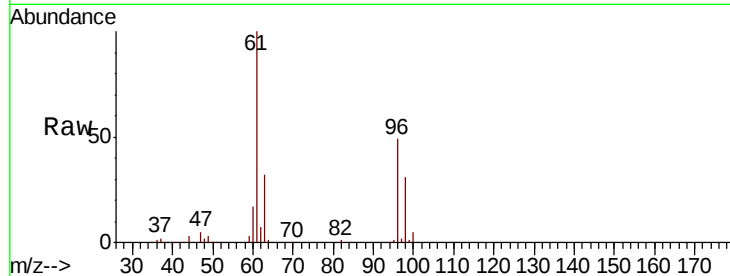
Tot Ion: 96 Resp: 51275

Ion Ratio Lower Upper

96 100

61 202.6 0.0 614.1

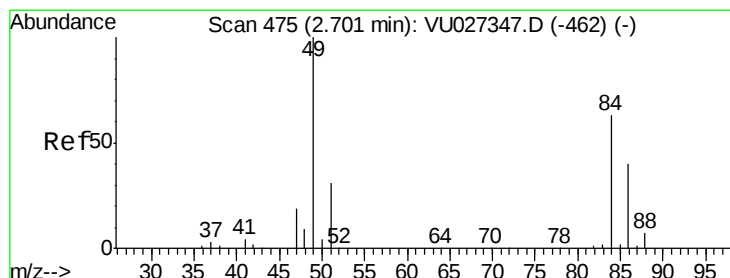
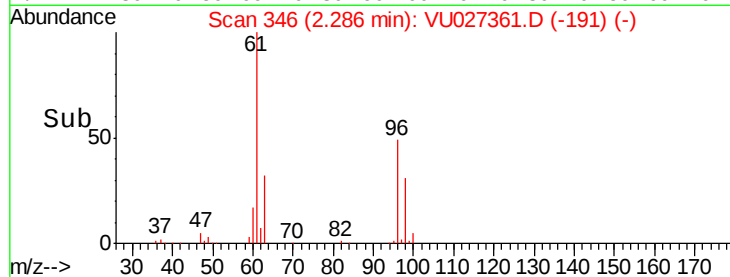
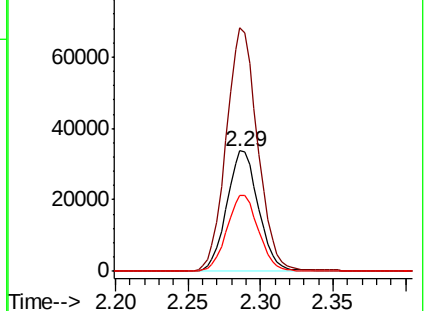
98 63.4 0.0 123.4



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



#15

Methylene Chloride

Concen: 10.873 ug/l

RT: 2.70 min Scan# 476

Delta R.T. 0.00 min

Lab File: VU027361.D

Acq: 03 Oct 2018 15:32

Tgt Ion: 84 Resp: 70920

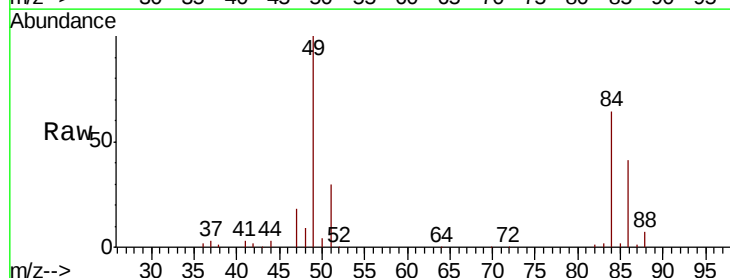
Ion Ratio Lower Upper

84 100

49 155.9 126.0 189.0

51 46.8 0.0 97.4

86 63.5 50.5 75.7

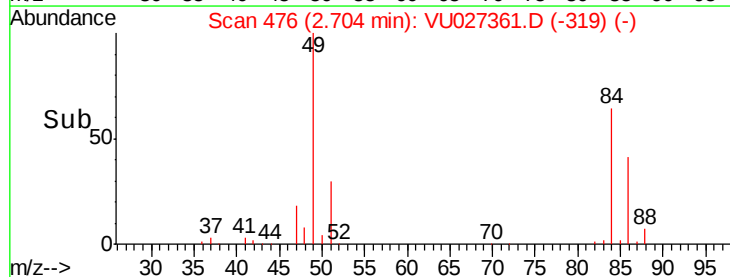
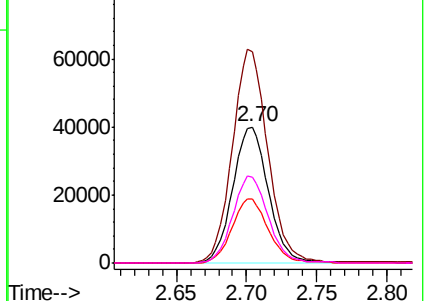


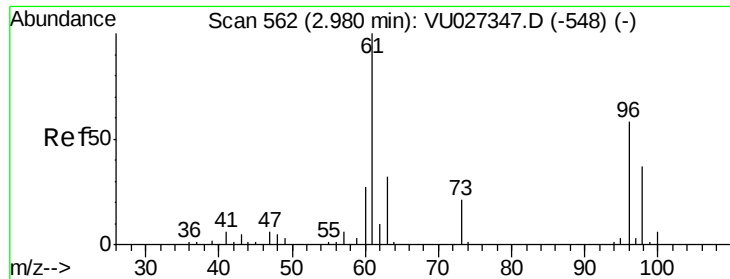
Abundance Ion 84.00 (83.70 to 84.70): VU0

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

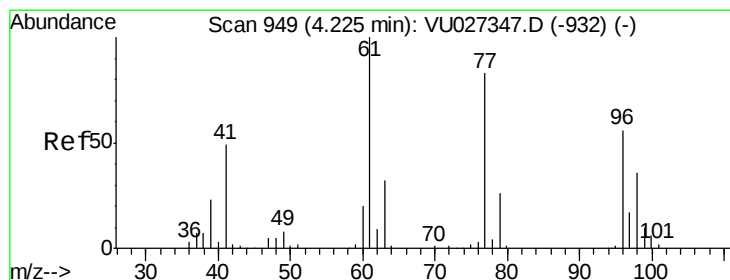
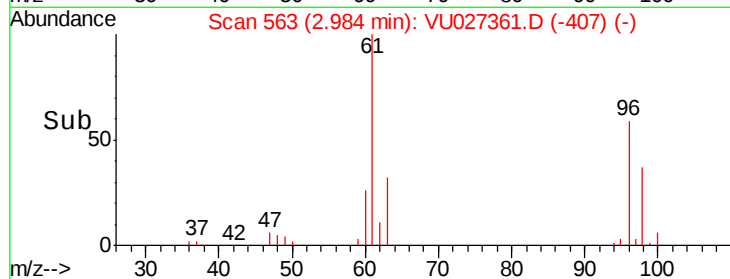
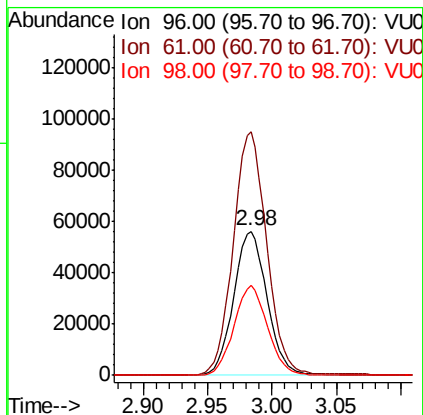
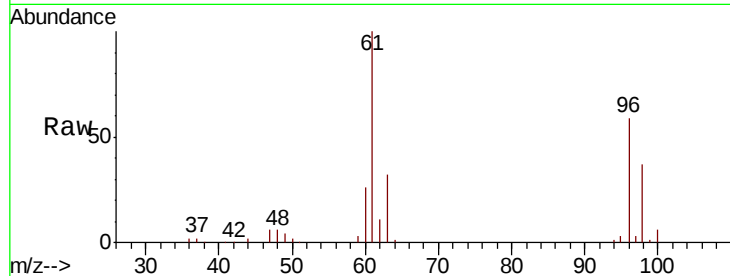




#16
trans-1,2-Dichloroethene
Concen: 17.329 ug/l
RT: 2.98 min Scan# 563
Delta R.T. 0.00 min
Lab File: VU027361.D
Acq: 03 Oct 2018 15:32

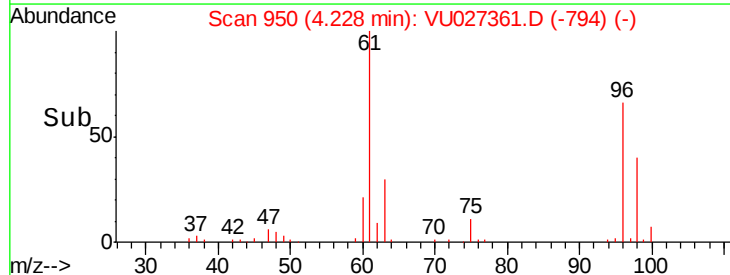
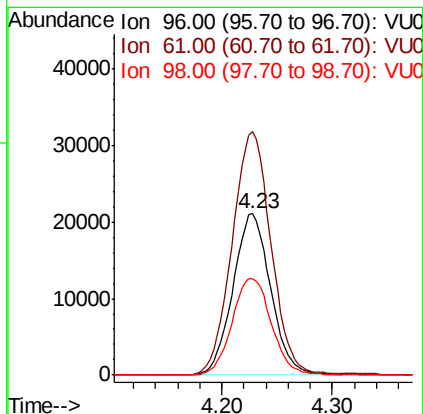
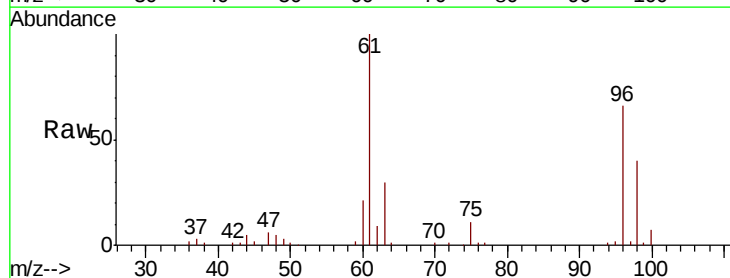
Instrument :
MSVOA_U
ClientSampleId :
38022-121917

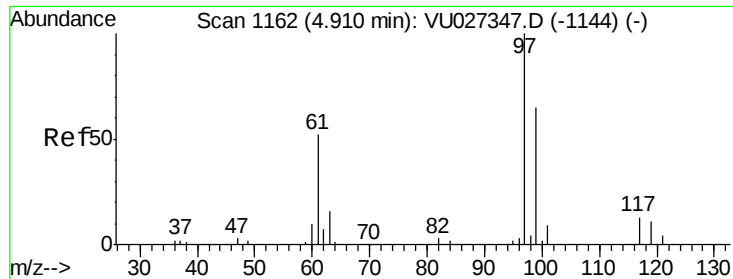
Tot Ion: 96 Resp: 101487
Ion Ratio Lower Upper
96 100
61 169.0 138.2 207.4
98 62.4 51.5 77.3



#22
cis-1,2-Dichloroethene
Concen: 7.072 ug/l
RT: 4.23 min Scan# 950
Delta R.T. 0.00 min
Lab File: VU027361.D
Acq: 03 Oct 2018 15:32

Tgt Ion: 96 Resp: 49902
Ion Ratio Lower Upper
96 100
61 157.0 0.0 461.8
98 62.5 32.5 97.4

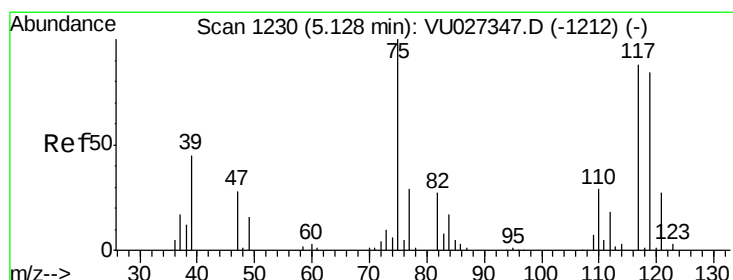
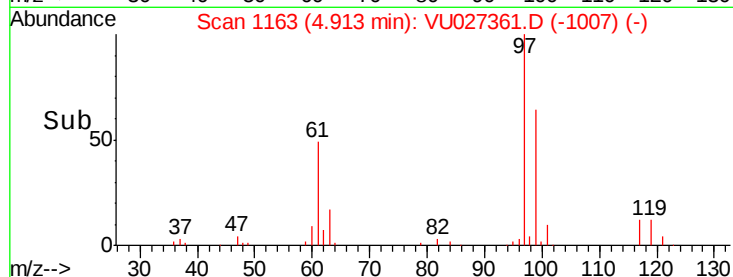
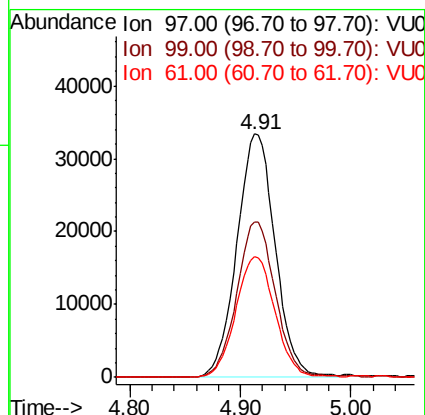
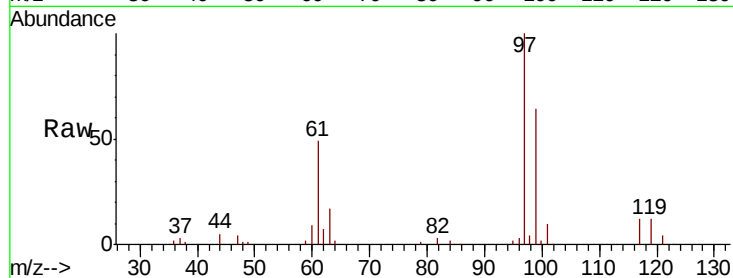




#28
 1,1,1-Trichloroethane
 Concen: 7.681 ug/l
 RT: 4.91 min Scan# 1163
 Delta R.T. 0.00 min
 Lab File: VU027361.D
 Acq: 03 Oct 2018 15:32

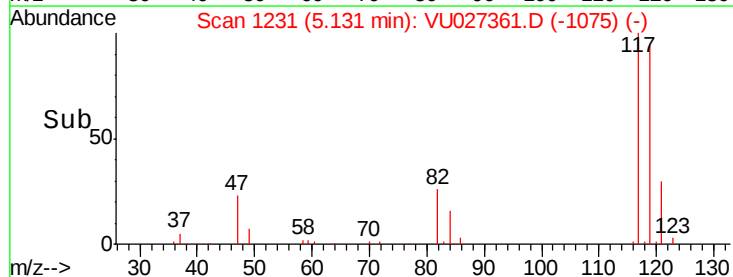
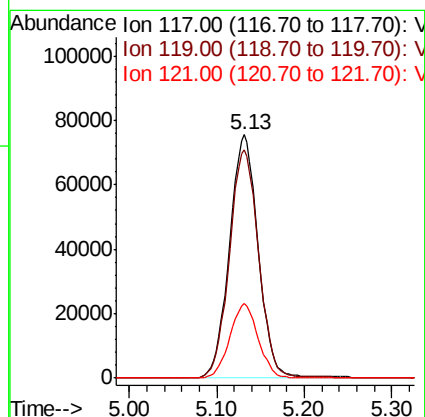
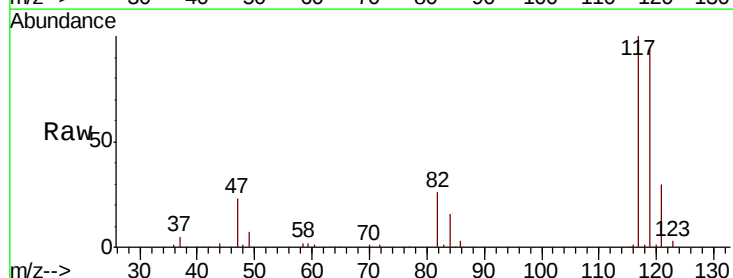
Instrument :
 MSVOA_U
 ClientSampleId :
 38022-121917

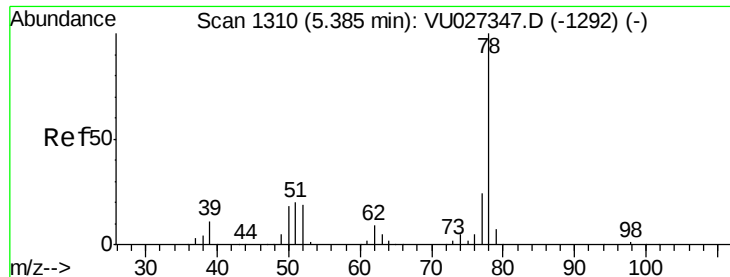
Tot Ion: 97 Resp: 80403
 Ion Ratio Lower Upper
 97 100
 99 64.4 31.9 95.9
 61 50.9 25.7 77.1



#30
 Carbon Tetrachloride
 Concen: 19.891 ug/l
 RT: 5.13 min Scan# 1231
 Delta R.T. 0.00 min
 Lab File: VU027361.D
 Acq: 03 Oct 2018 15:32

Tgt Ion: 117 Resp: 172203
 Ion Ratio Lower Upper
 117 100
 119 93.7 75.9 113.9
 121 30.4 24.6 37.0





#35

Benzene

Concen: 20.193 ug/l

RT: 5.39 min Scan# 1310

Delta R.T. -0.00 min

Lab File: VU027361.D

Acq: 03 Oct 2018 15:32

Instrument :

MSVOA_U

ClientSampleId :

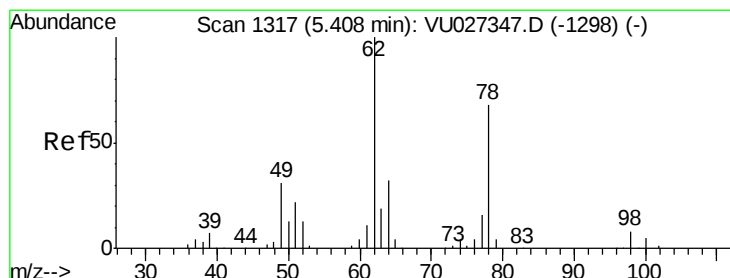
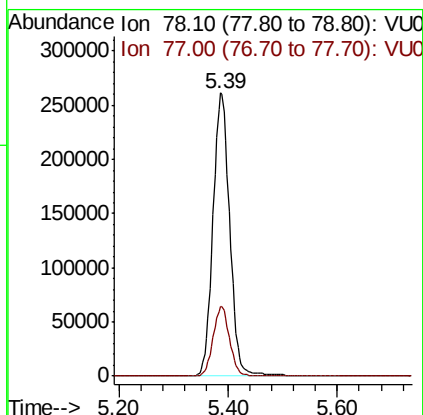
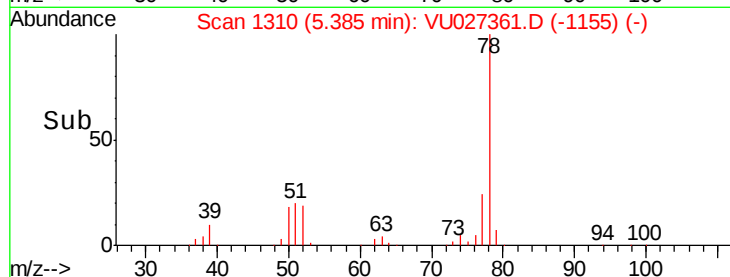
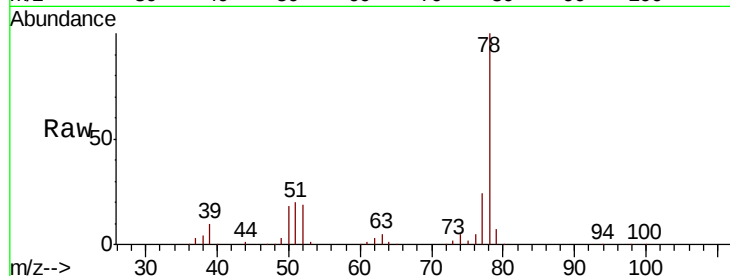
38022-121917

Tot Ion: 78 Resp: 556649

Ion Ratio Lower Upper

78 100

77 24.4 19.5 29.3



#36

1,2-Dichloroethane

Concen: 5.960 ug/l

RT: 5.41 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VU027361.D

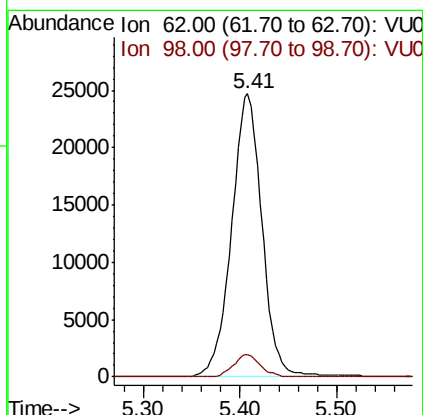
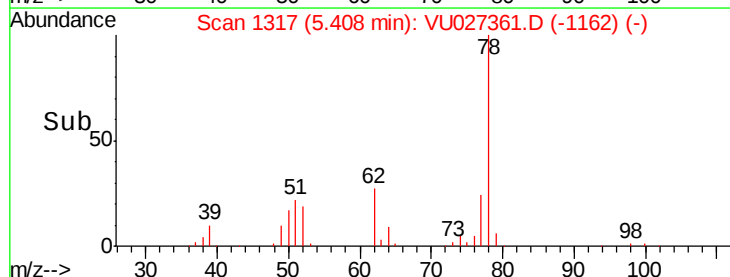
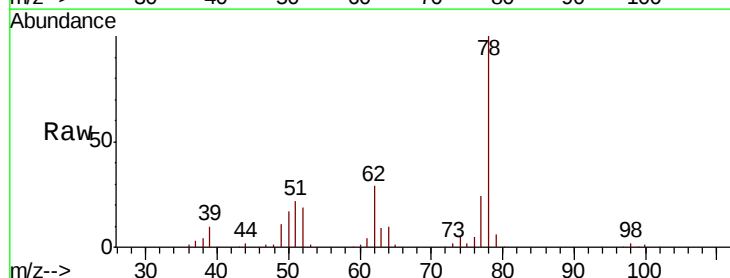
Acq: 03 Oct 2018 15:32

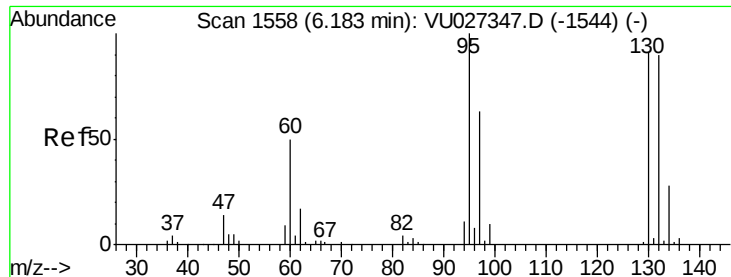
Tgt Ion: 62 Resp: 53862

Ion Ratio Lower Upper

62 100

98 6.9 6.2 9.2





#37

Trichloroethene

Concen: 20.410 ug/l

RT: 6.18 min Scan# 1558

Delta R.T. -0.00 min

Lab File: VU027361.D

Acq: 03 Oct 2018 15:32

Instrument :

MSVOA_U

ClientSampleId :

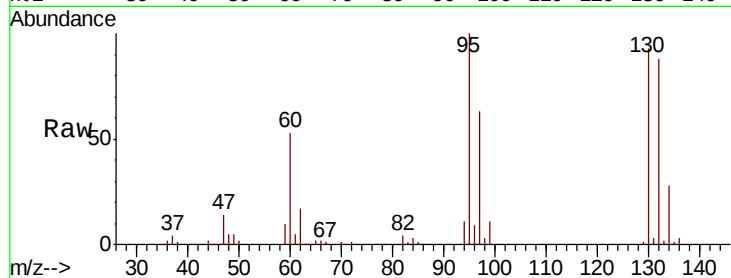
38022-121917

Tot Ion:130 Resp: 124902

Ion Ratio Lower Upper

130 100

95 107.9 87.6 131.4



Abundance Ion 129.90 (129.60 to 130.60): VU027347.D (-1544) (-)

Ion 94.90 (94.60 to 95.60): VU027361.D (-1403) (-)

618

80000

60000

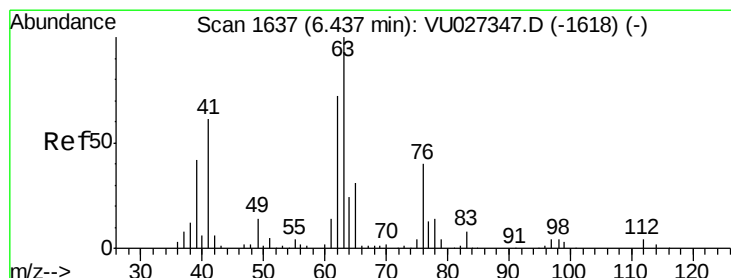
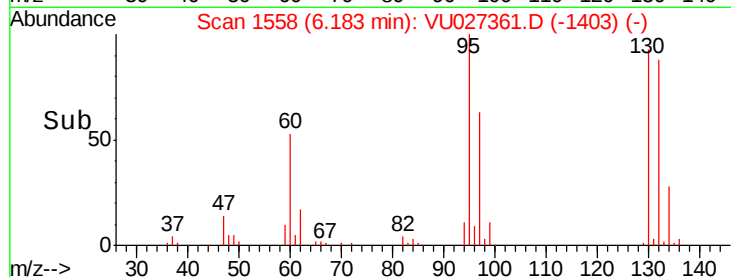
40000

20000

0

Time-->

6.10 6.20 6.30



#38

1,2-Dichloropropane

Concen: 14.593 ug/l

RT: 6.44 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VU027361.D

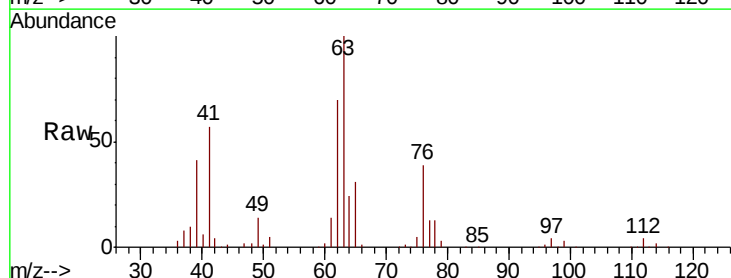
Acq: 03 Oct 2018 15:32

Tgt Ion: 63 Resp: 121615

Ion Ratio Lower Upper

63 100

65 30.8 24.9 37.3



Abundance Ion 63.00 (62.70 to 63.70): VU027347.D (-1618) (-)

Ion 65.00 (64.70 to 65.70): VU027361.D (-1482) (-)

644

60000

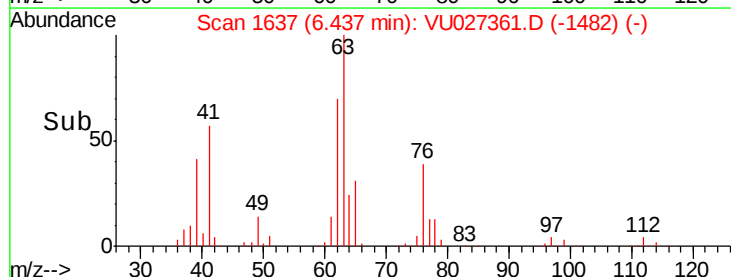
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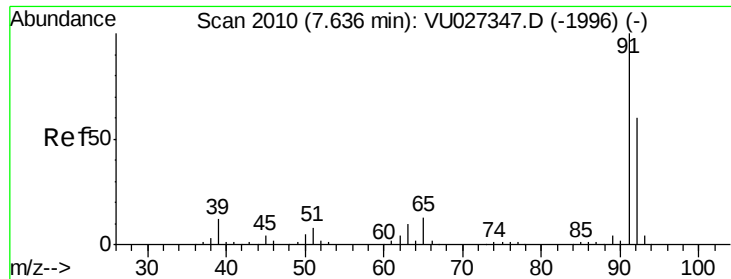
20000

0

Time-->

6.35 6.40 6.45 6.50





#49

Toluene

Concen: 4.517 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU027361.D

Acq: 03 Oct 2018 15:32

Instrument :

MSVOA_U

ClientSampleId :

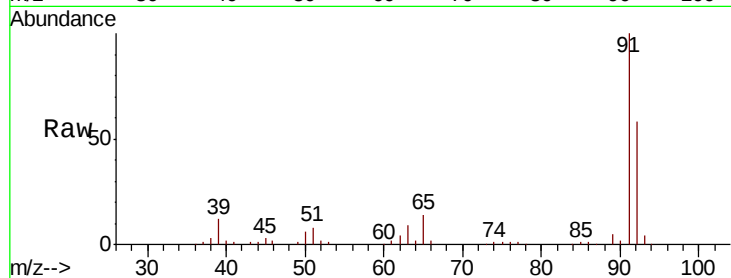
38022-121917

Tot Ion: 92 Resp: 68081

Ion Ratio Lower Upper

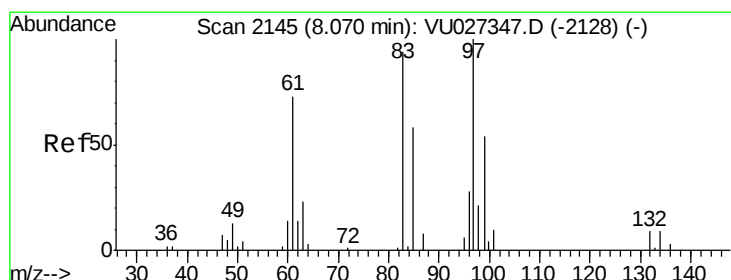
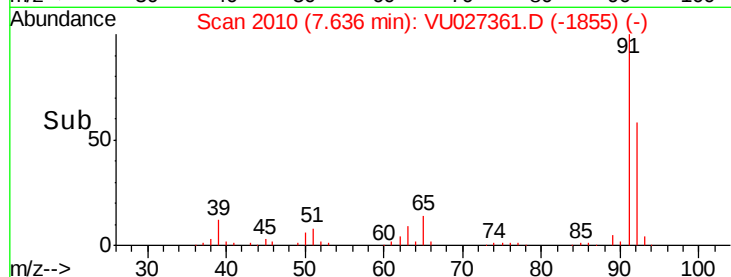
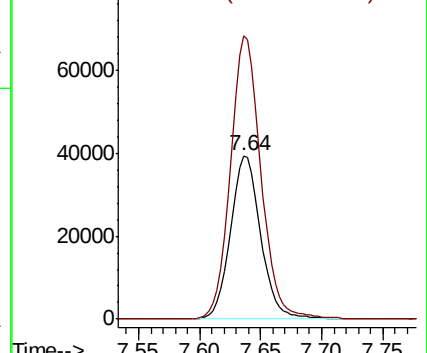
92 100

91 175.7 136.4 204.6



Abundance Ion 92.00 (91.70 to 92.70): VU027347.D (-1996) (-)

Ion 91.00 (90.70 to 91.70): VU027347.D (-1996) (-)



#52

1,1,2-Trichloroethane

Concen: 4.190 ug/l

RT: 8.07 min Scan# 2145

Delta R.T. -0.00 min

Lab File: VU027361.D

Acq: 03 Oct 2018 15:32

Tgt Ion: 97 Resp: 20450

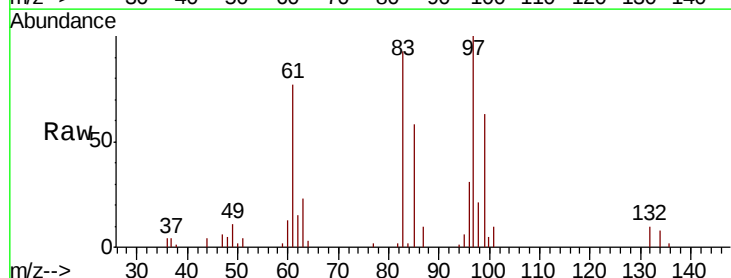
Ion Ratio Lower Upper

97 100

83 93.4 75.3 112.9

85 58.0 47.3 70.9

99 63.4 51.7 77.5

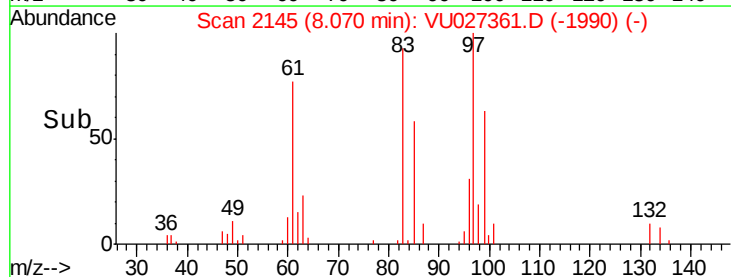
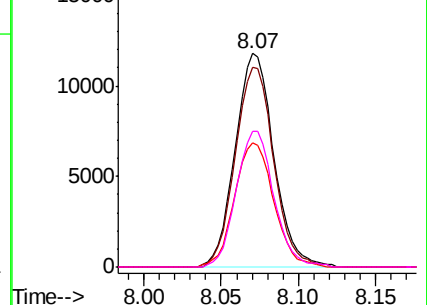


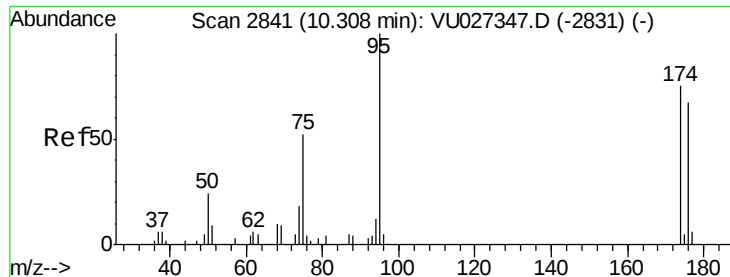
Abundance Ion 97.00 (96.70 to 97.70): VU027347.D (-2128) (-)

Ion 82.95 (82.65 to 83.65): VU027347.D (-2128) (-)

Ion 84.95 (84.65 to 85.65): VU027347.D (-2128) (-)

Ion 98.95 (98.65 to 99.65): VU027347.D (-2128) (-)

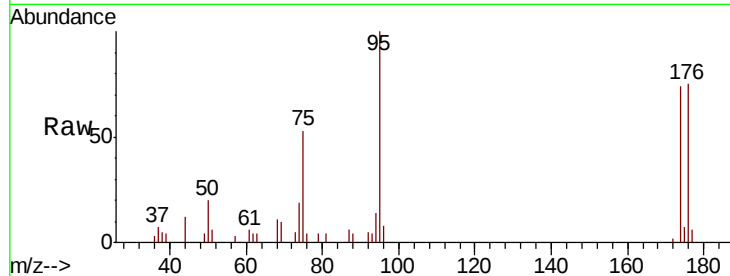




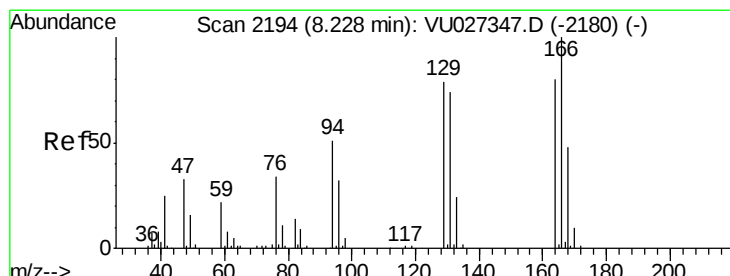
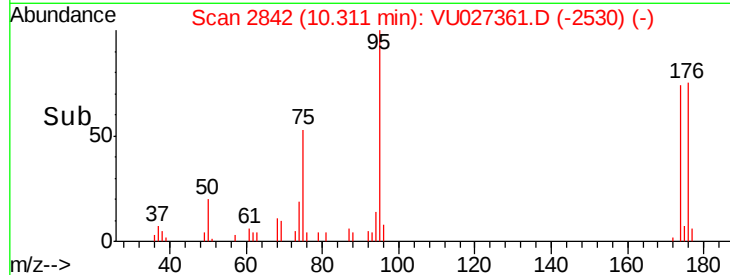
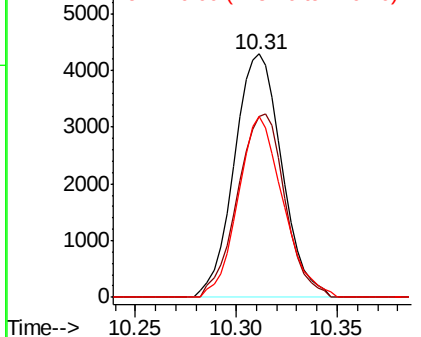
#57
 4-Bromofluorobenzene
 Concen: N.D. ug/l
 RT: 10.31 min Scan# 2842
 Delta R.T. 0.00 min
 Lab File: VU027361.D
 Acq: 03 Oct 2018 15:32

Instrument :
 MSVOA_U
 ClientSampleId :
 38022-121917

Tot Ion:	95	Resp:	7079
Ion	Ratio	Lower	Upper
95	100		
174	75.1	61.0	91.6
176	70.4	57.2	85.8

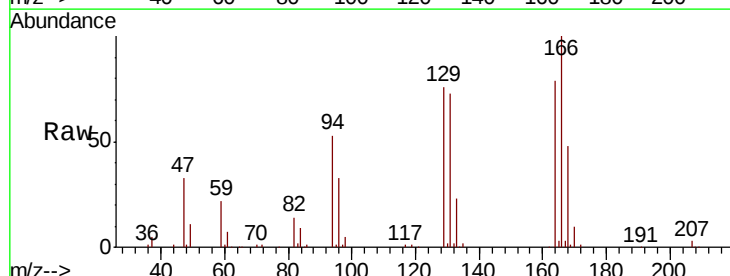


Abundance Ion 95.00 (94.70 to 95.70): VU027361.D (-2530) (-)
 Ion 174.00 (173.70 to 174.70): VU027361.D (-2530) (-)
 Ion 176.00 (175.70 to 176.70): VU027361.D (-2530) (-)

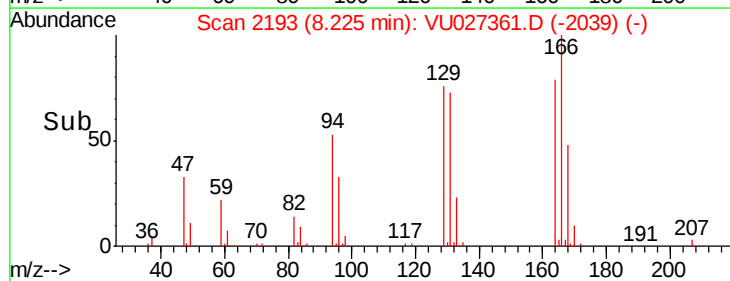
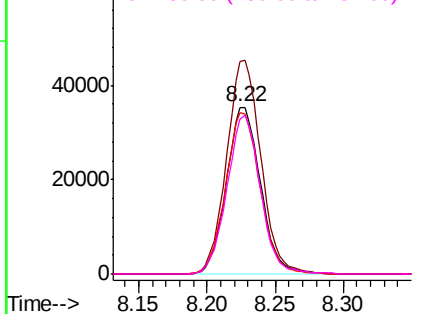


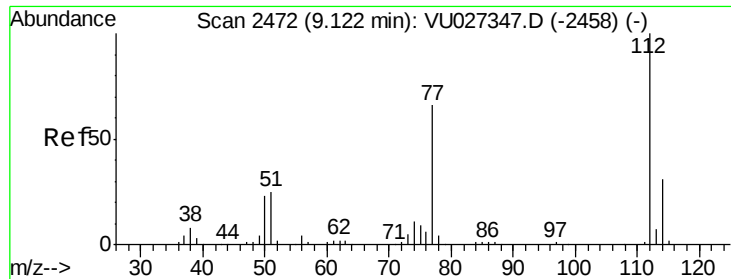
#58
 Tetrachloroethene
 Concen: 11.335 ug/l
 RT: 8.22 min Scan# 2193
 Delta R.T. -0.00 min
 Lab File: VU027361.D
 Acq: 03 Oct 2018 15:32

Tgt Ion:	164	Resp:	61496
Ion	Ratio	Lower	Upper
164	100		
166	127.1	99.9	149.9
129	96.8	78.6	117.8
131	93.1	73.6	110.4



Abundance Ion 163.85 (163.55 to 164.55): VU027361.D (-2039) (-)
 Ion 165.80 (165.50 to 166.50): VU027361.D (-2039) (-)
 Ion 128.90 (128.60 to 129.60): VU027361.D (-2039) (-)
 Ion 130.90 (130.60 to 131.60): VU027361.D (-2039) (-)





#59

Chlorobenzene

Concen: 13.957 ug/l

RT: 9.12 min Scan# 2472

Delta R.T. -0.00 min

Lab File: VU027361.D

Acq: 03 Oct 2018 15:32

Instrument :

MSVOA_U

ClientSampleId :

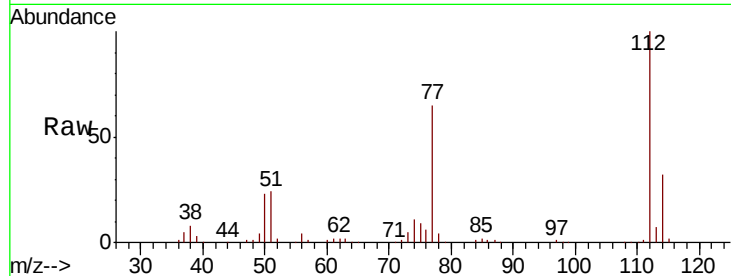
38022-121917

Tot Ion:112 Resp: 219389

Ion Ratio Lower Upper

112 100

114 32.1 25.0 37.4



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

150000

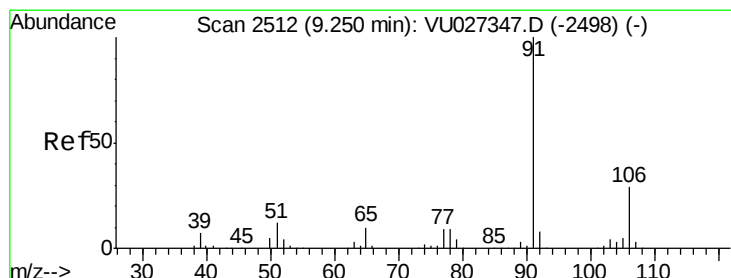
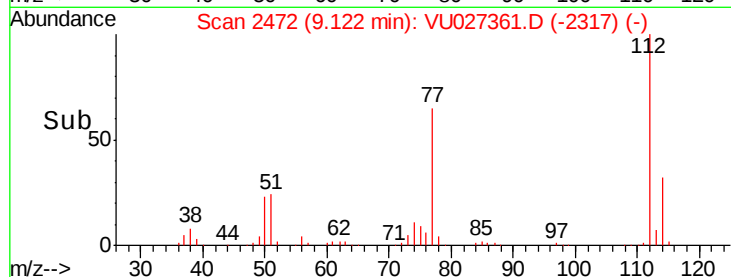
100000

50000

0

9.05 9.10 9.15 9.20

Time-->



#63

Ethyl Benzene

Concen: 19.056 ug/l

RT: 9.25 min Scan# 2512

Delta R.T. -0.00 min

Lab File: VU027361.D

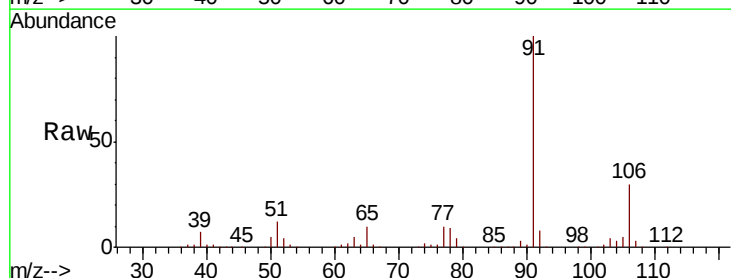
Acq: 03 Oct 2018 15:32

Tgt Ion: 91 Resp: 514203

Ion Ratio Lower Upper

91 100

106 29.9 23.6 35.4



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V

300000

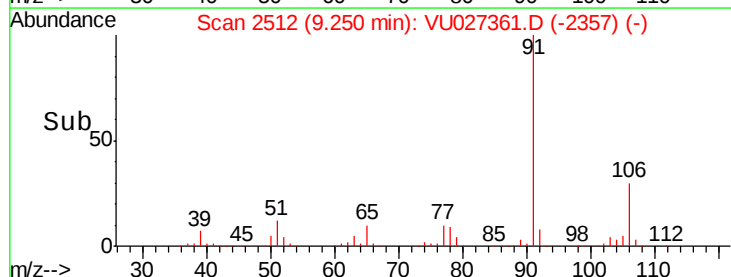
200000

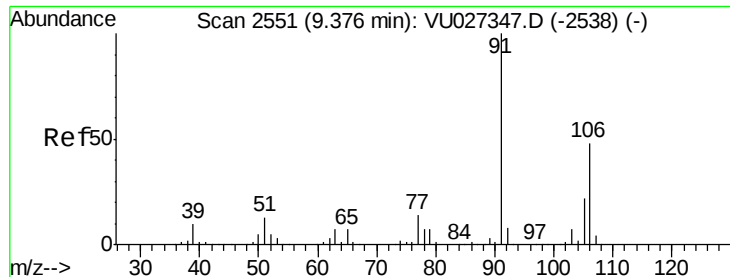
100000

0

9.15 9.20 9.25 9.30 9.35

Time-->





#64

m/p-Xylenes

Concen: 24.118 ug/l

RT: 9.38 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VU027361.D

Acq: 03 Oct 2018 15:32

Instrument :

MSVOA_U

ClientSampleId :

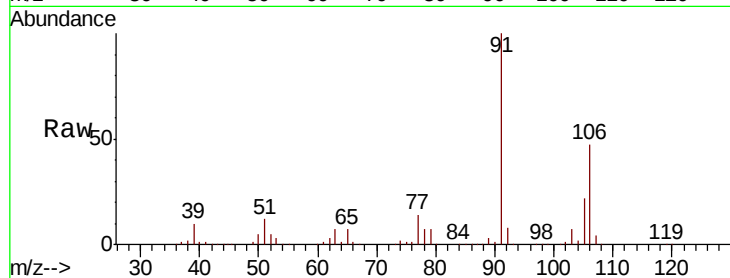
38022-121917

Tot Ion:106 Resp: 243986

Ion Ratio Lower Upper

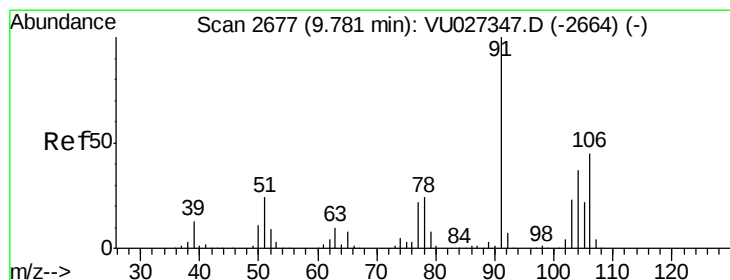
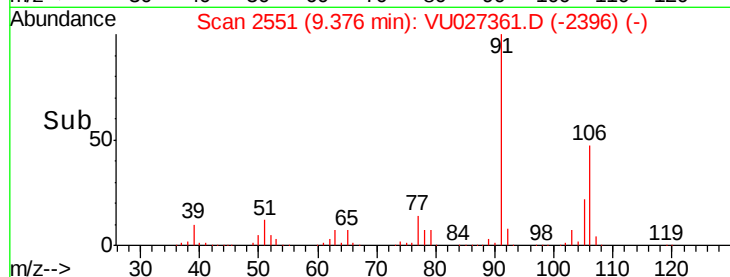
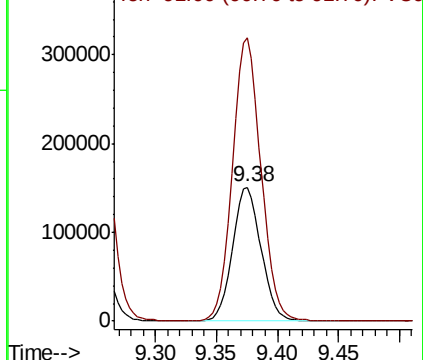
106 100

91 211.5 169.8 254.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#65

o-Xylene

Concen: 6.016 ug/l

RT: 9.78 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VU027361.D

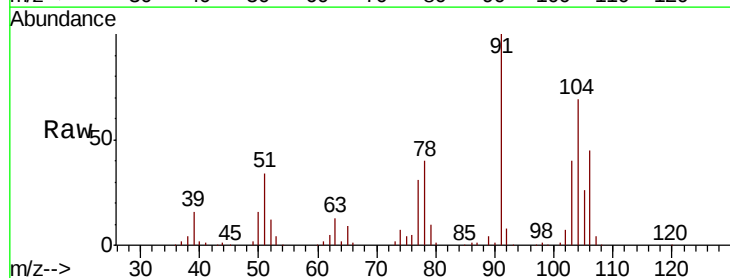
Acq: 03 Oct 2018 15:32

Tgt Ion:106 Resp: 57774

Ion Ratio Lower Upper

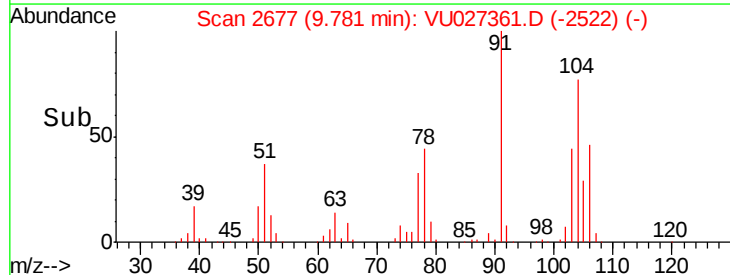
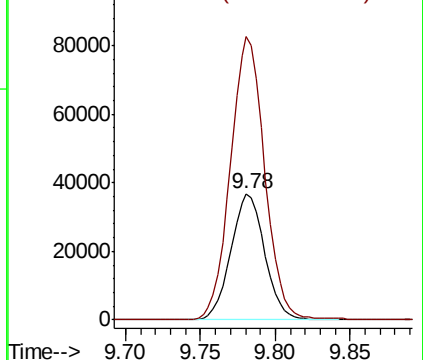
106 100

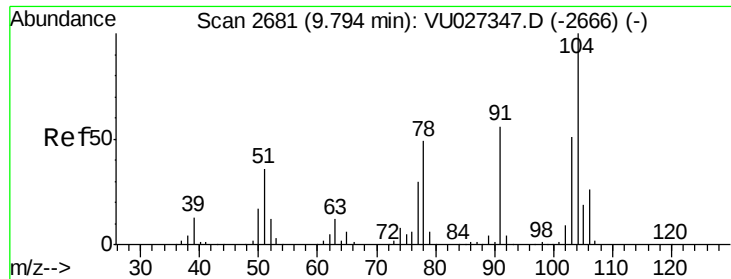
91 227.8 111.1 333.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

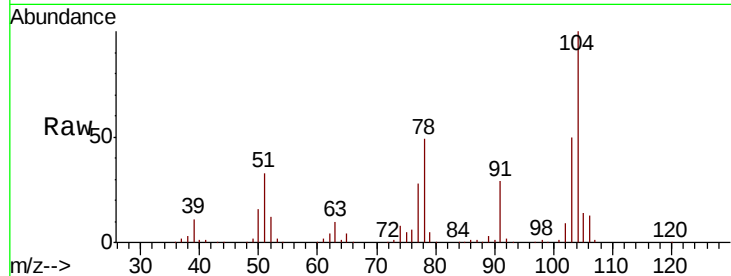




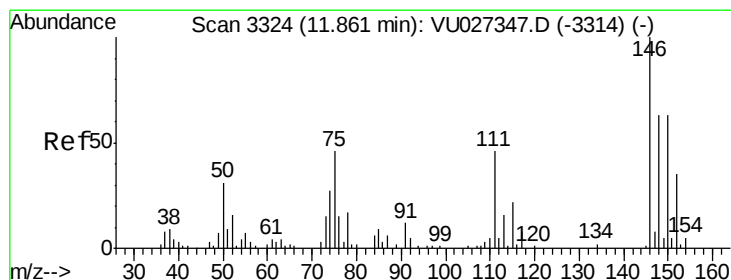
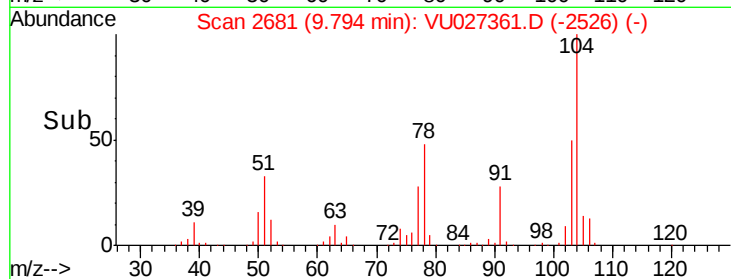
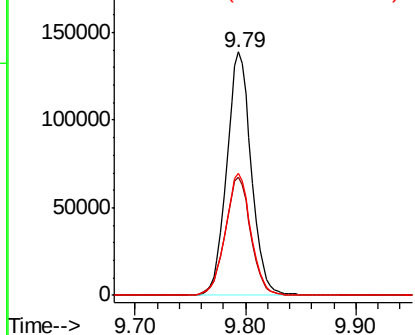
#66
 Stvrene
 Concen: 12.732 ug/l
 RT: 9.79 min Scan# 2681
 Delta R.T. -0.00 min
 Lab File: VU027361.D
 Acq: 03 Oct 2018 15:32

Instrument :
 MSVOA_U
 ClientSampleId :
 38022-121917

Tot Ion:104 Resp: 214599
 Ion Ratio Lower Upper
 104 100
 78 50.8 43.1 64.7
 103 51.9 43.8 65.8

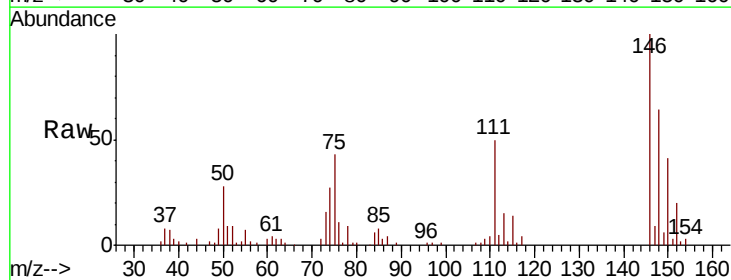


Abundance Ion 104.00 (103.70 to 104.70): V
 Ion 78.00 (77.70 to 78.70): VU0
 Ion 103.00 (102.70 to 103.70): V

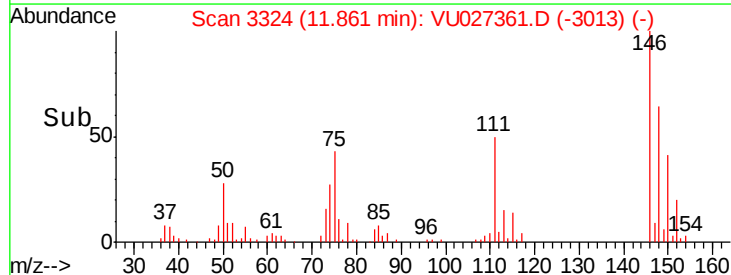
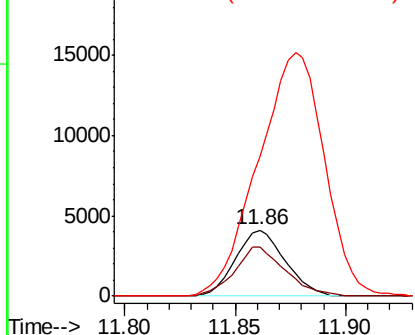


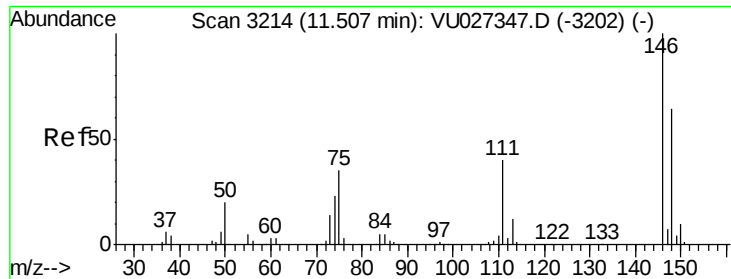
#68
 1,2-Dichlorobenzene-d4
 Concen: N.D. ug/l
 RT: 11.86 min Scan# 3324
 Delta R.T. -0.00 min
 Lab File: VU027361.D
 Acq: 03 Oct 2018 15:32

Tgt Ion:152 Resp: 6426
 Ion Ratio Lower Upper
 152 100
 115 75.2 0.0 131.6
 150 491.2 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

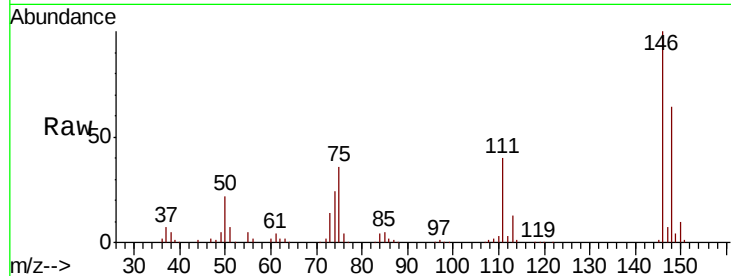




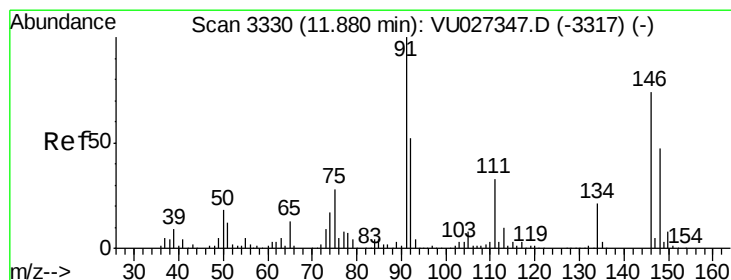
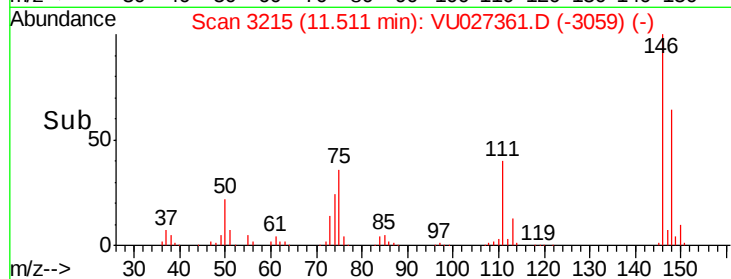
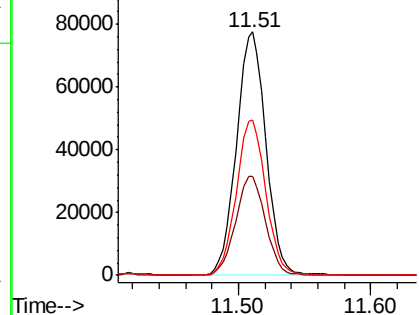
#83
 1,4-Dichlorobenzene
 Concen: 9.310 ug/l
 RT: 11.51 min Scan# 3215
 Delta R.T. 0.00 min
 Lab File: VU027361.D
 Acq: 03 Oct 2018 15:32

Instrument :
 MSVOA_U
 ClientSampleId :
 38022-121917

Tot Ion:146 Resp: 119912
 Ion Ratio Lower Upper
 146 100
 111 41.0 32.6 49.0
 148 63.5 51.4 77.2

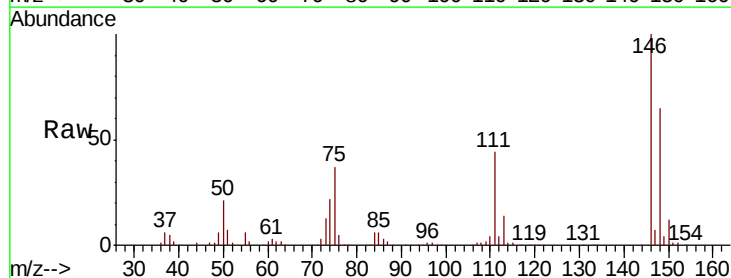


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

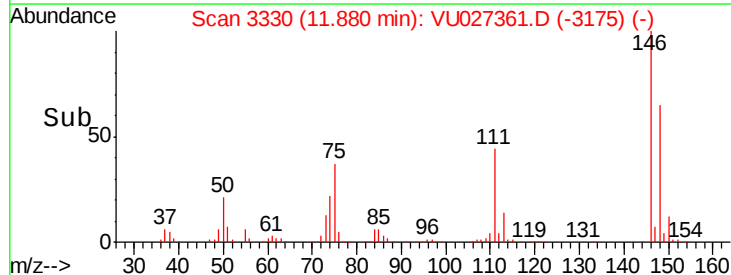
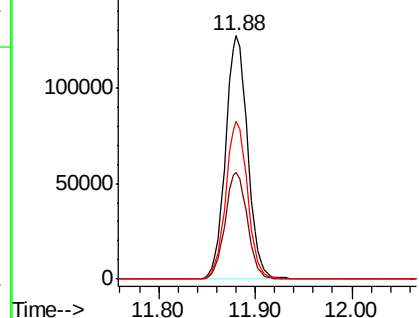


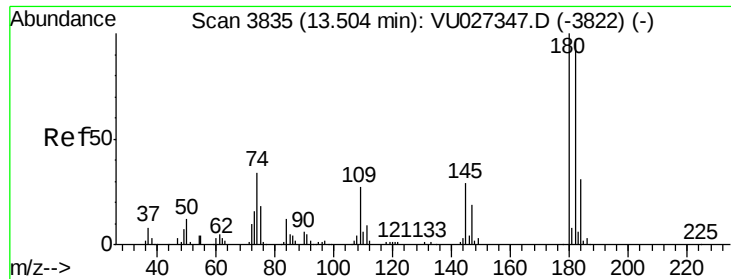
#85
 1,2-Dichlorobenzene
 Concen: 16.920 ug/l
 RT: 11.88 min Scan# 3330
 Delta R.T. -0.00 min
 Lab File: VU027361.D
 Acq: 03 Oct 2018 15:32

Tgt Ion:146 Resp: 201424
 Ion Ratio Lower Upper
 146 100
 111 44.3 22.1 66.3
 148 64.1 32.0 96.0



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





#87
 1,2,4-Trichlorobenzene
 Concen: 18.398 ug/l
 RT: 13.50 min Scan# 3835
 Delta R.T. -0.00 min
 Lab File: VU027361.D
 Acq: 03 Oct 2018 15:32

Instrument :
 MSVOA_U
 ClientSampleId :
 38022-121917

Tot Ion:	180	Resp:	138833
Ion Ratio	Lower	Upper	
180	100		
182	95.2	77.5	116.3
145	29.7	23.9	35.9

