

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV122318\
 Data File : VW007814.D
 Acq On : 21 Dec 2018 23:44
 Operator : SY/AP
 Sample : J6377-05RE
 Misc : 5.36G/5ML/MSVOA W/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 22 01:59:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W122118S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 06:30:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	16093	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	30733	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	24181	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	7305	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	7746	43.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.82%	
35) Dibromofluoromethane	7.88	113	5991	31.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	63.90%	
50) Toluene-d8	10.32	98	14992	21.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	42.42%	
62) 4-Bromofluorobenzene	12.62	95	4825	17.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	35.34%	

Target Compounds

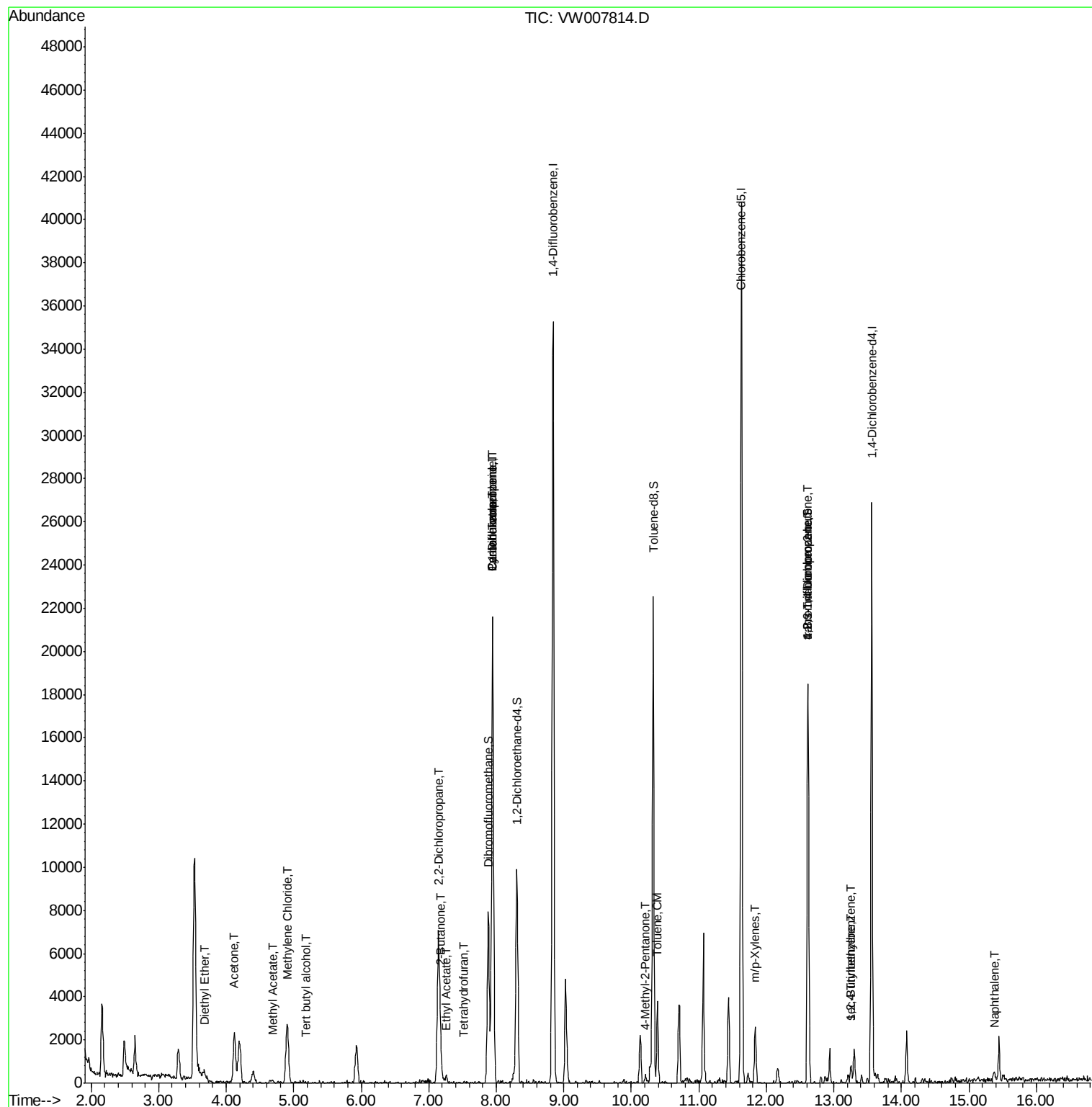
						Qvalue
8) Diethyl Ether	3.68	74	172	2.412	ug/l #	10
11) Tert butyl alcohol	5.18	59	34	2.857	ug/l #	73
16) Acetone	4.12	43	4135	125.189	ug/l	94
18) Methyl Acetate	4.69	43	461	5.869	ug/l #	46
20) Methylene Chloride	4.90	84	2250	8.371	ug/l	96
25) 2-Butanone	7.18	43	1160	29.984	ug/l	97
26) 2,2-Dichloropropane	7.15	77	390	1.858	ug/l #	53
29) Tetrahydrofuran	7.52	42	99	4.290	ug/l #	27
31) Cyclohexane	7.95	56	324	1.234	ug/l #	25
36) 1,1-Dichloropropene	7.95	75	1246	4.201	ug/l #	40
37) Ethyl Acetate	7.25	43	431	4.210	ug/l #	68
38) Carbon Tetrachloride	7.95	117	1783	5.104	ug/l #	11
51) 4-Methyl-2-Pentanone	10.21	43	396	4.086	ug/l #	72
52) Toluene	10.38	92	1874	3.529	ug/l	97
68) m/p-Xylenes	11.84	106	972	2.790	ug/l	100
76) 1,2,3-Trichloropropane	12.62	75	2605	46.138	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	2605	96.847	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.25	105	868	1.806	ug/l	98
85) sec-Butylbenzene	13.25	105	868	1.507	ug/l #	56
95) Naphthalene	15.37	128	815	2.823	ug/l #	69

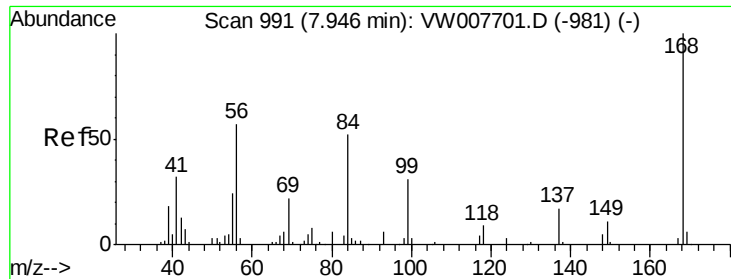
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Dec 20 06:30:23 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW007814.D

Acq: 21 Dec 2018 23:44

Instrument :

MSVOA_W

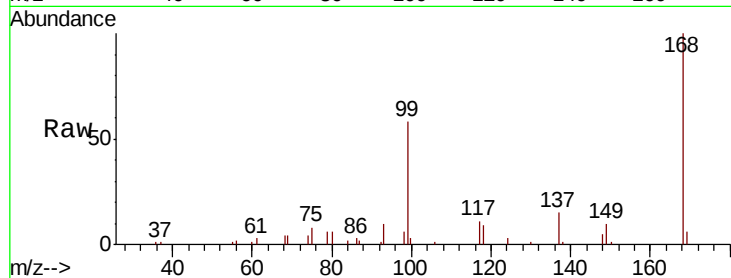
ClientSampled :

Tot Ion:168 Resp: 16093

Ion Ratio Lower Upper

168 100

99 57.8 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

8000

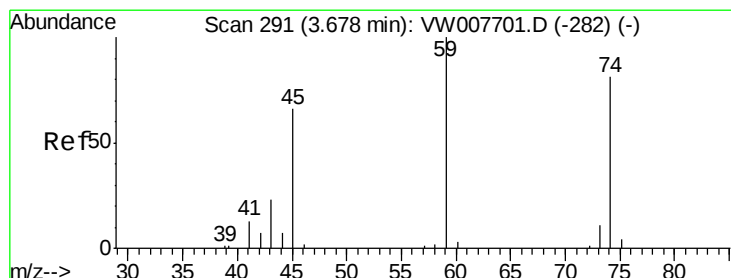
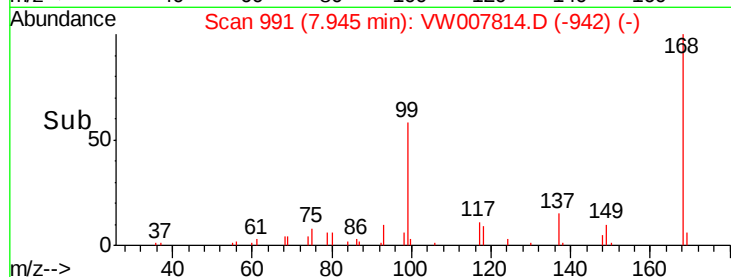
6000

4000

2000

0

Time-->



#8

Diethyl Ether

Concen: 2.412 ug/l

RT: 3.68 min Scan# 292

Delta R.T. 0.01 min

Lab File: VW007814.D

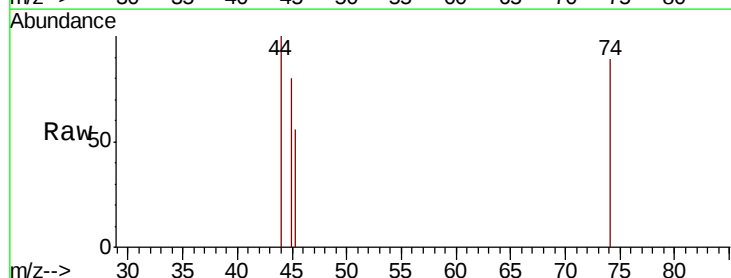
Acq: 21 Dec 2018 23:44

Tgt Ion: 74 Resp: 172

Ion Ratio Lower Upper

74 100

45 0.0 39.4 118.1#



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

200

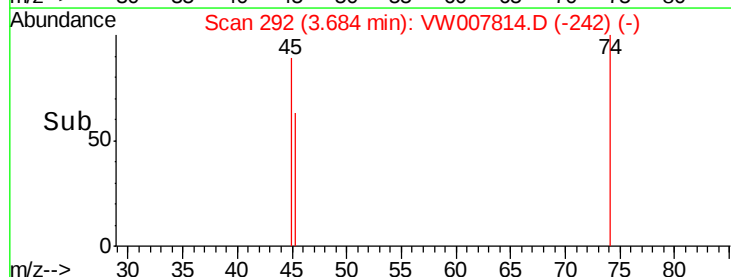
150

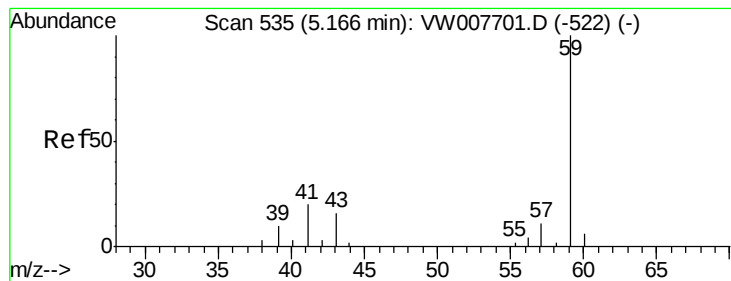
100

50

0

Time-->



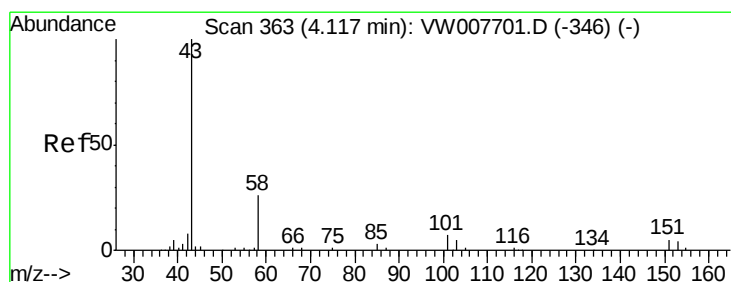
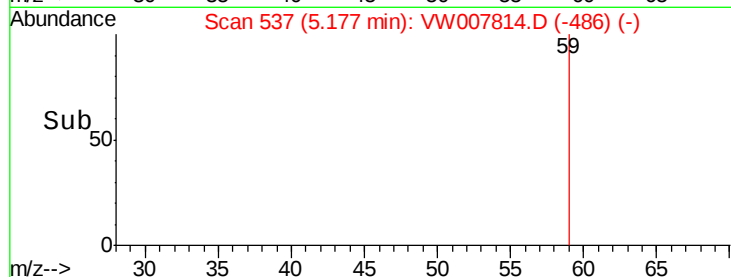
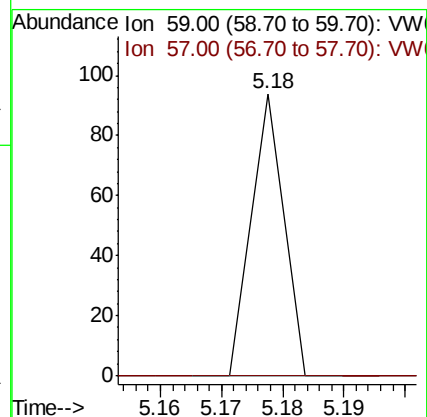
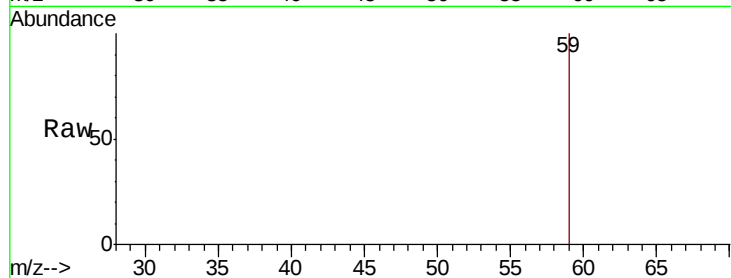


#11

Tert butyl alcohol
 Concen: 2.857 ug/l
 RT: 5.18 min Scan# 537
 Delta R.T. 0.01 min
 Lab File: VW007814.D
 Acq: 21 Dec 2018 23:44

Instrument :
 MSVOA_W
 ClientSampled :

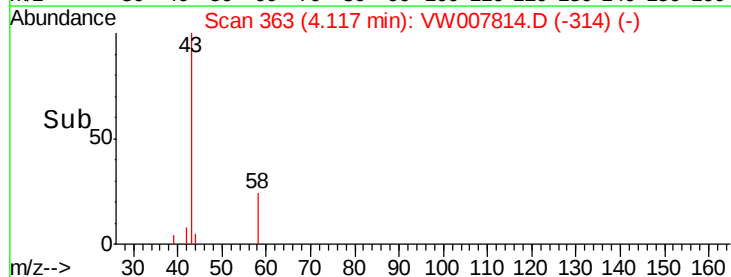
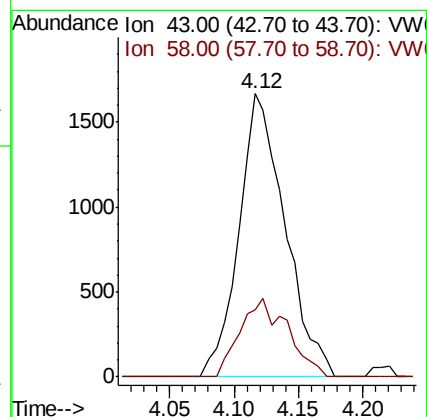
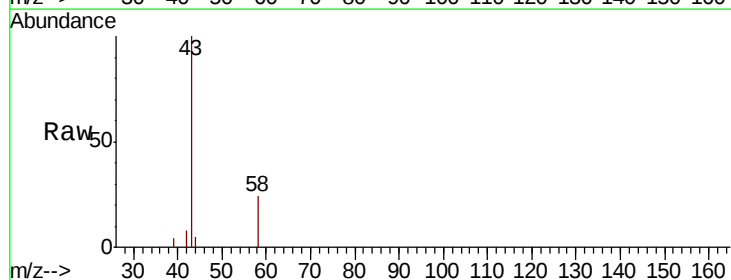
Tot Ion: 59 Resp: 34
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#

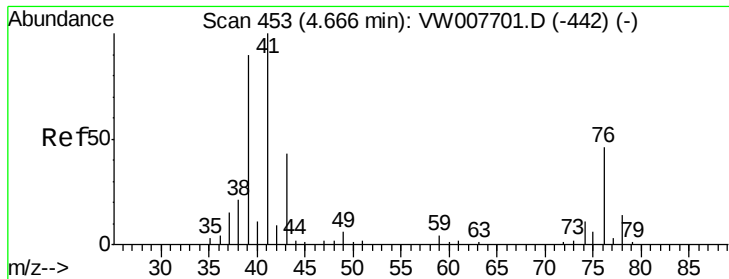


#16

Acetone
 Concen: 125.189 ug/l
 RT: 4.12 min Scan# 363
 Delta R.T. -0.00 min
 Lab File: VW007814.D
 Acq: 21 Dec 2018 23:44

Tgt Ion: 43 Resp: 4135
 Ion Ratio Lower Upper
 43 100
 58 23.6 21.2 31.8





#18

Methyl Acetate

Concen: 5.869 ug/l

RT: 4.69 min Scan# 457

Delta R.T. 0.02 min

Lab File: VW007814.D

Acq: 21 Dec 2018 23:44

Instrument :

MSVOA_W

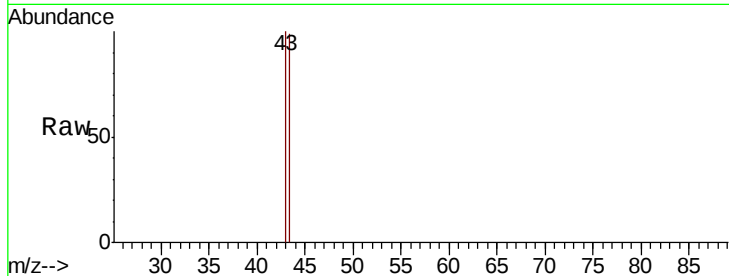
ClientSampleId :

Tot Ion: 43 Resp: 461

Ion Ratio Lower Upper

43 100

74 0.0 22.7 34.1#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

4.69

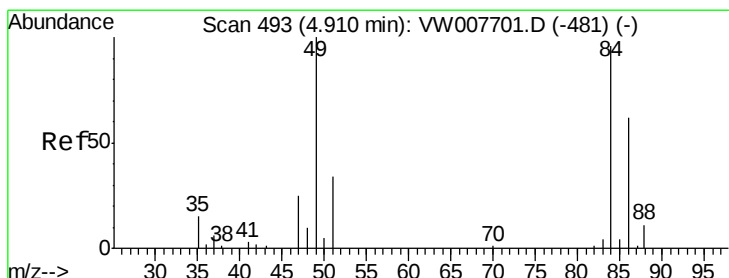
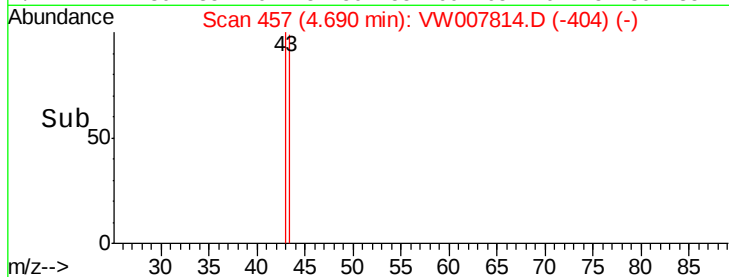
150

100

50

0

Time-->



#20

Methylene Chloride

Concen: 8.371 ug/l

RT: 4.90 min Scan# 491

Delta R.T. -0.01 min

Lab File: VW007814.D

Acq: 21 Dec 2018 23:44

Tgt Ion: 84 Resp: 2250

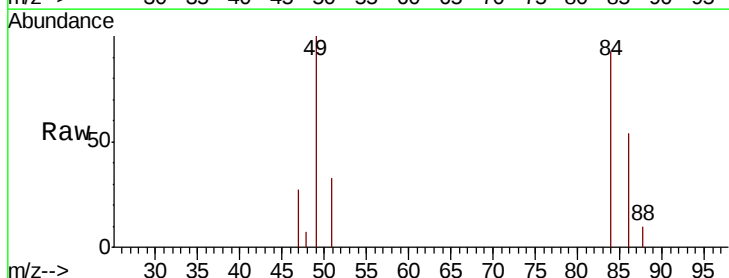
Ion Ratio Lower Upper

84 100

49 107.7 83.7 125.5

51 35.6 28.2 42.2

86 58.3 52.2 78.2



Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW

1200

1000

800

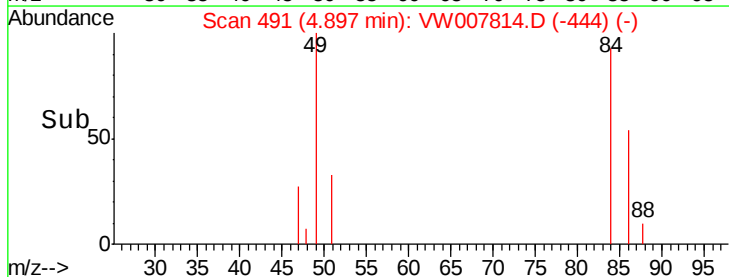
600

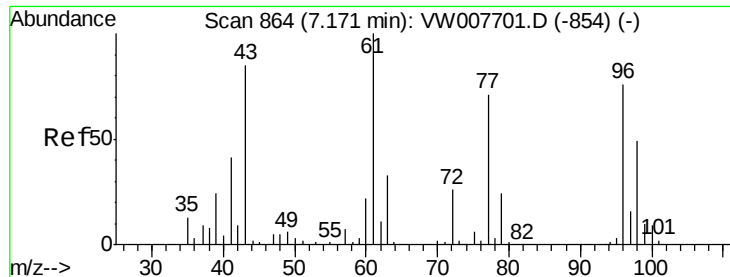
400

200

0

Time-->





#25

2-Butanone

Concen: 29.984 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW007814.D

Acq: 21 Dec 2018 23:44

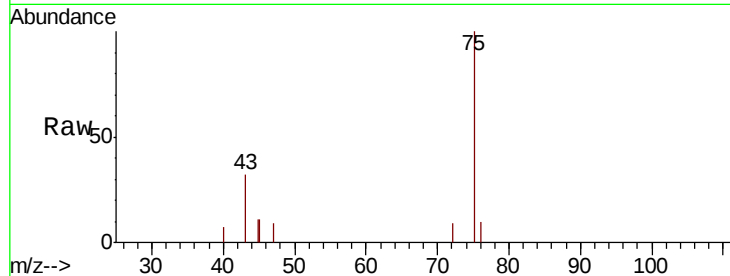
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 43 Resp: 1160

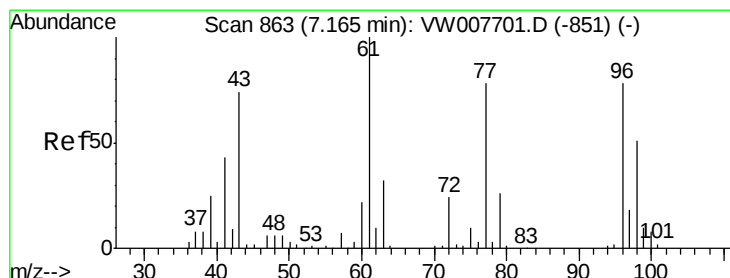
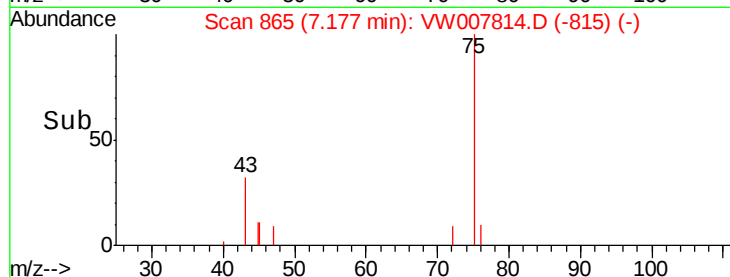
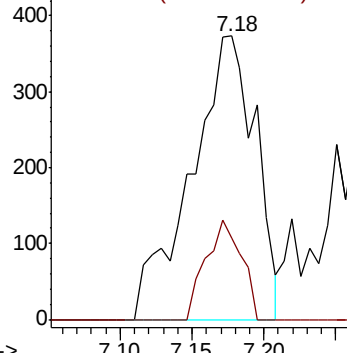
Ion Ratio Lower Upper

43 100

72 29.0 24.5 36.7



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW



#26

2,2-Dichloropropane

Concen: 1.858 ug/l

RT: 7.15 min Scan# 861

Delta R.T. -0.01 min

Lab File: VW007814.D

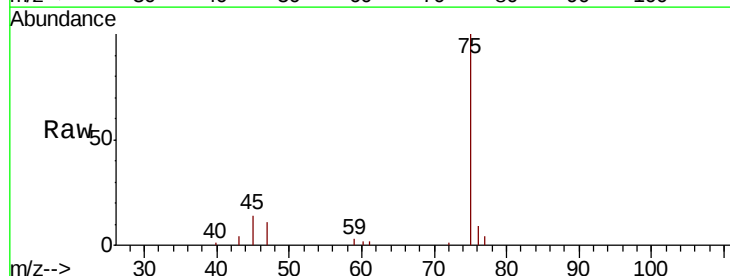
Acq: 21 Dec 2018 23:44

Tgt Ion: 77 Resp: 390

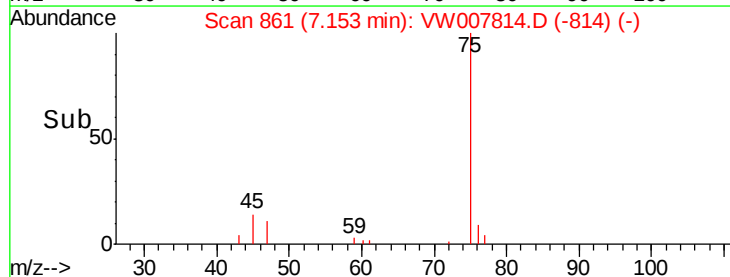
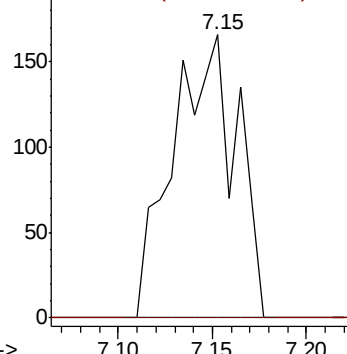
Ion Ratio Lower Upper

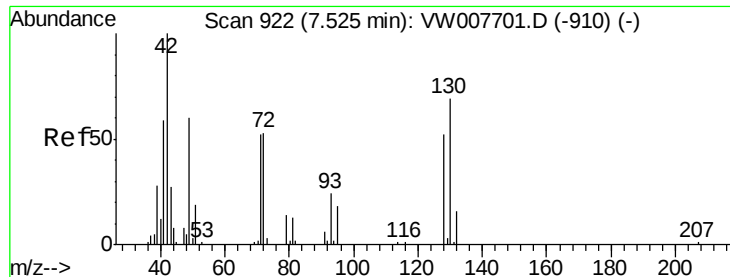
77 100

97 0.0 11.3 33.9#



Abundance Ion 76.90 (76.60 to 77.60): VW
Ion 96.90 (96.60 to 97.60): VW

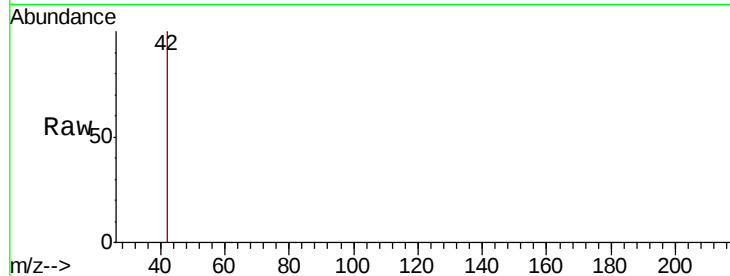




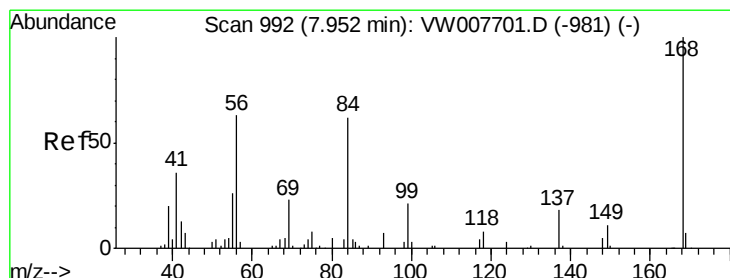
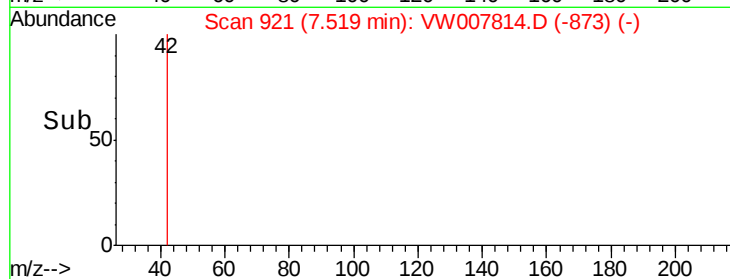
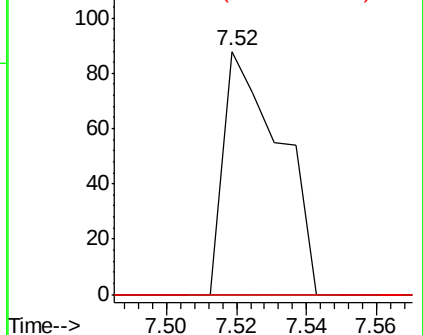
#29
Tetrahydrofuran
Concen: 4.290 ug/l
RT: 7.52 min Scan# 921
Delta R.T. -0.01 min
Lab File: VW007814.D
Acq: 21 Dec 2018 23:44

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 42 Resp: 99
Ion Ratio Lower Upper
42 100
72 0.0 41.7 62.5#
71 0.0 39.0 58.6#

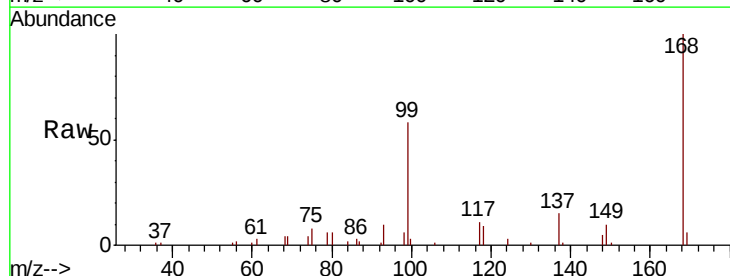


Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW

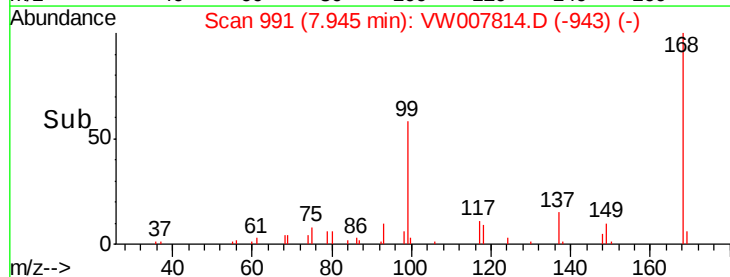
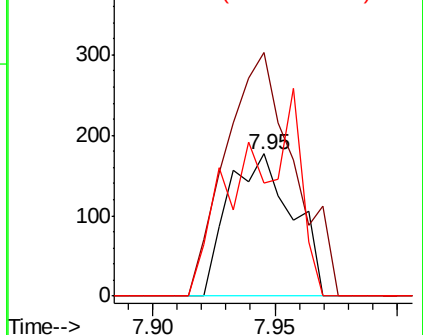


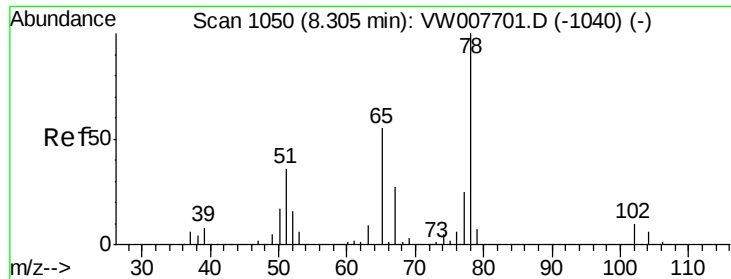
#31
Cyclohexane
Concen: 1.234 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW007814.D
Acq: 21 Dec 2018 23:44

Tgt Ion: 56 Resp: 324
Ion Ratio Lower Upper
56 100
69 171.2 29.7 44.5#
84 79.7 78.9 118.3



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

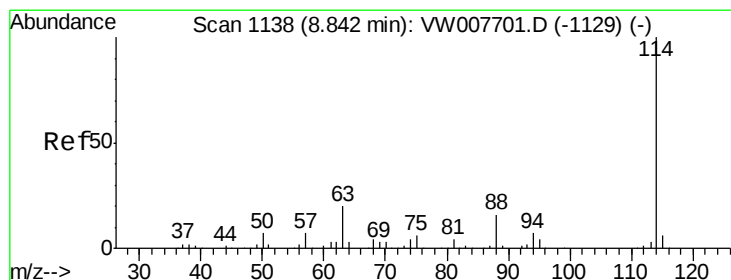
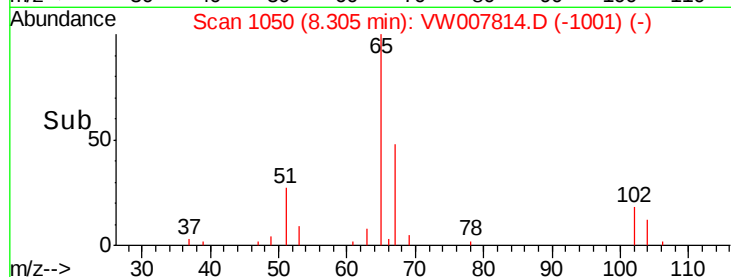
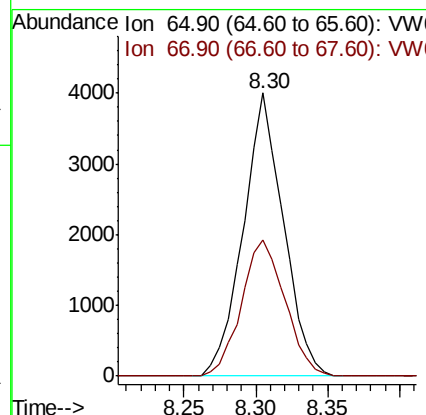
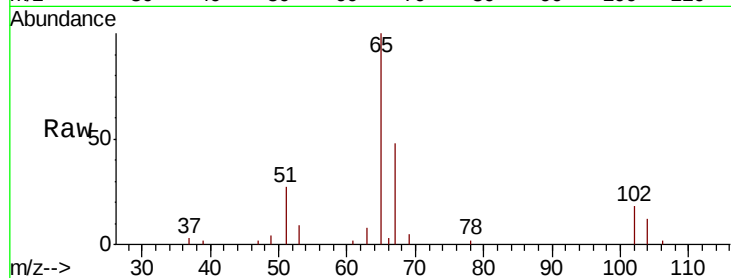




#33
 1,2-Dichloroethane-d4
 Concen: 43.915 ug/l
 RT: 8.30 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW007814.D
 Acq: 21 Dec 2018 23:44

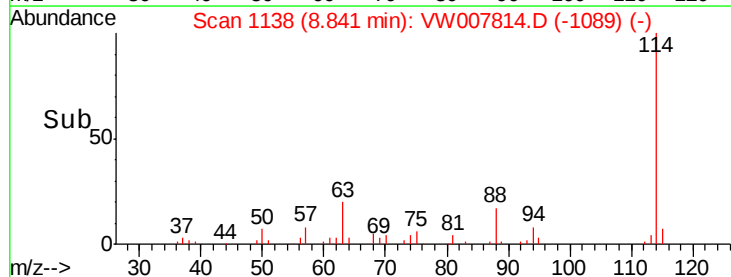
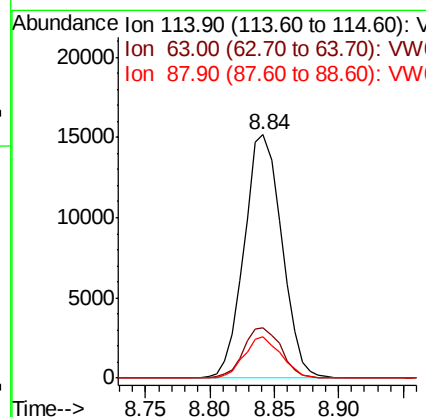
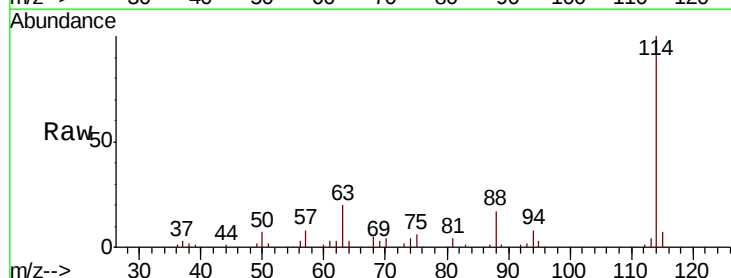
Instrument :
 MSVOA_W
 ClientSampleId :

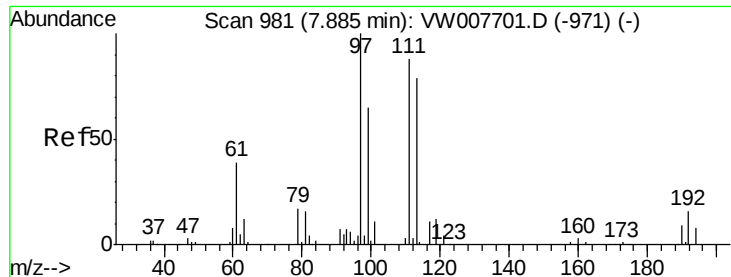
Tot Ion: 65 Resp: 7746
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 100.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW007814.D
 Acq: 21 Dec 2018 23:44

Tgt Ion: 114 Resp: 30733
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 40.0
 88 16.9 0.0 32.6





#35

Dibromofluoromethane

Concen: 31.954 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW007814.D

Acq: 21 Dec 2018 23:44

Instrument :

MSVOA_W

ClientSampleId :

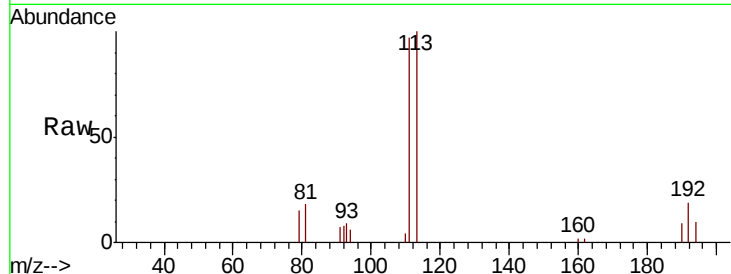
Tot Ion:113 Resp: 5991

Ion Ratio Lower Upper

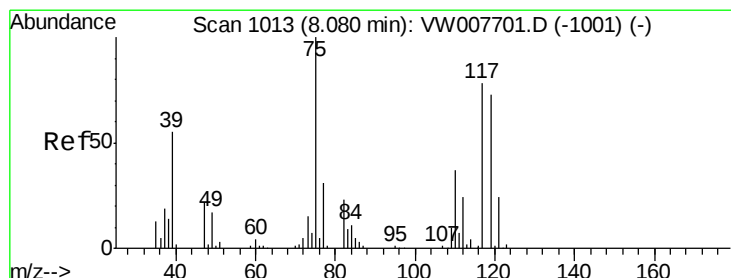
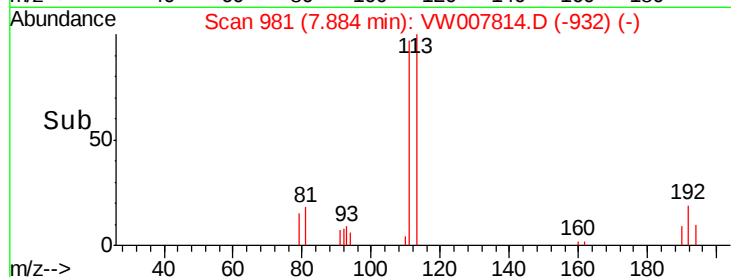
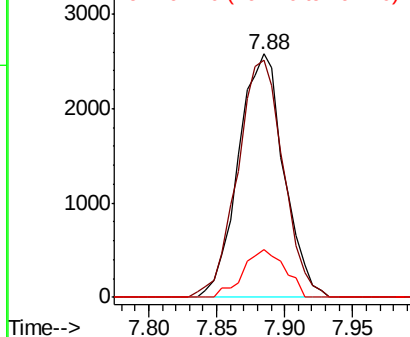
113 100

111 98.2 82.6 124.0

192 18.0 15.5 23.3



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.201 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW007814.D

Acq: 21 Dec 2018 23:44

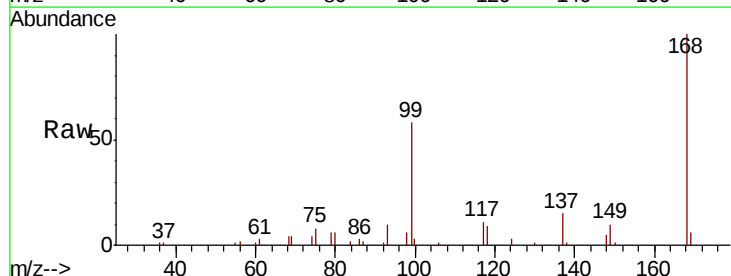
Tgt Ion: 75 Resp: 1246

Ion Ratio Lower Upper

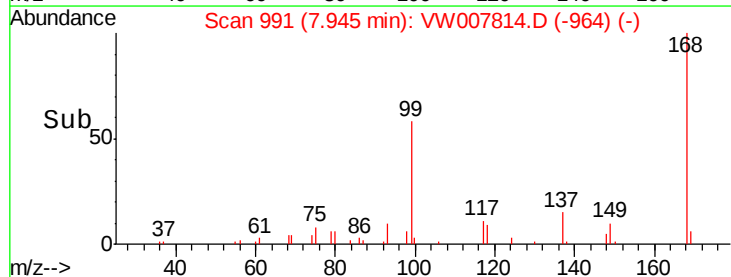
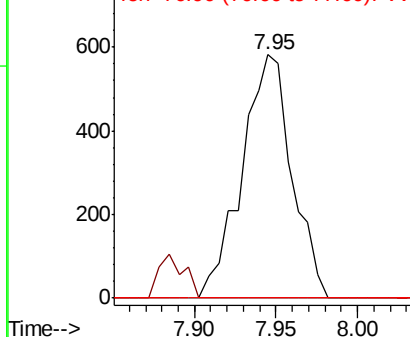
75 100

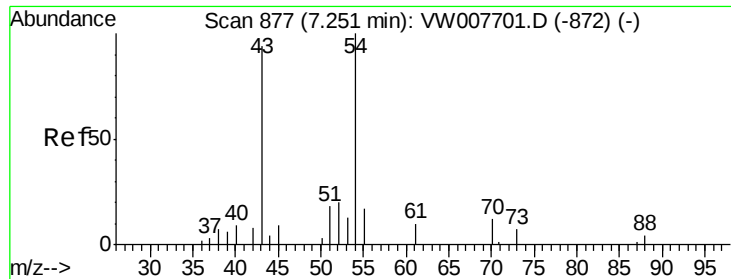
110 0.0 18.6 55.8#

77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VW





#37

Ethyl Acetate

Concen: 4.210 ug/l

RT: 7.25 min Scan# 877

Delta R.T. -0.00 min

Lab File: VW007814.D

Acq: 21 Dec 2018 23:44

Instrument :

MSVOA_W

ClientSampleId :

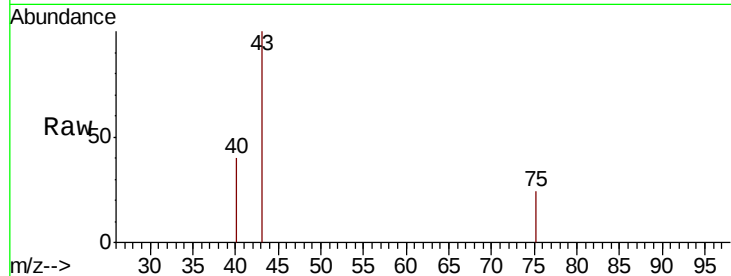
Tot Ion: 43 Resp: 431

Ion Ratio Lower Upper

43 100

61 0.0 11.2 16.8#

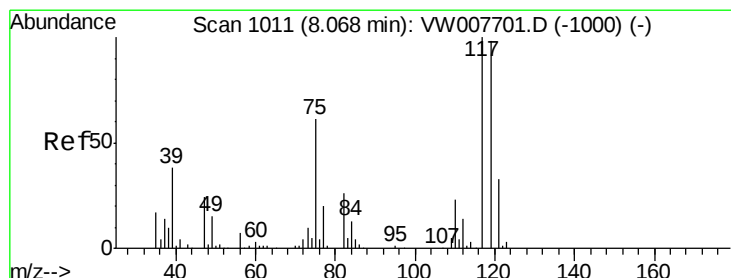
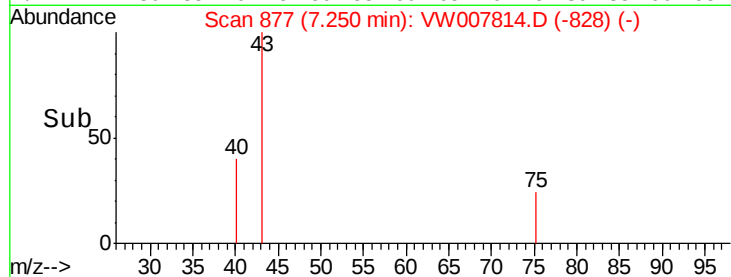
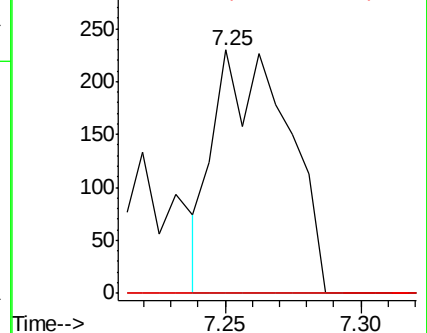
70 0.0 9.3 13.9#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 70.00 (69.70 to 70.70): VW



#38

Carbon Tetrachloride

Concen: 5.104 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW007814.D

Acq: 21 Dec 2018 23:44

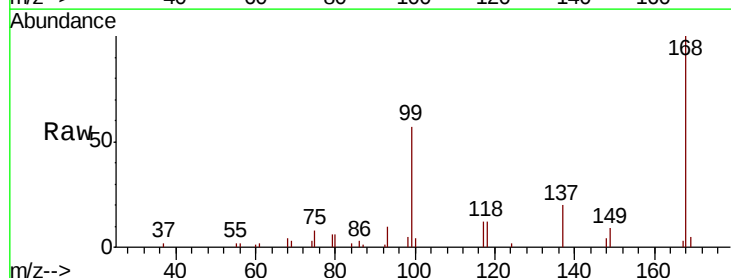
Tgt Ion: 117 Resp: 1783

Ion Ratio Lower Upper

117 100

119 0.0 78.2 117.2#

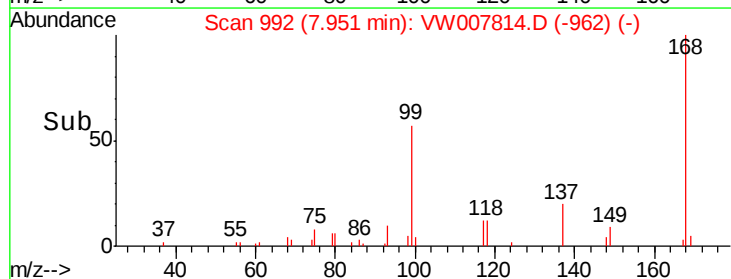
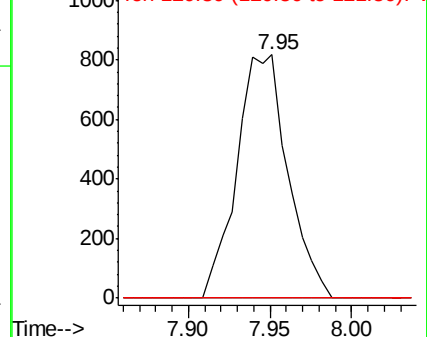
121 0.0 26.1 39.1#

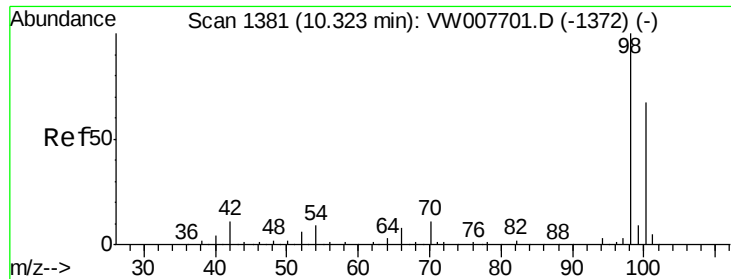


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 21.211 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW007814.D

Acq: 21 Dec 2018 23:44

Instrument :

MSVOA_W

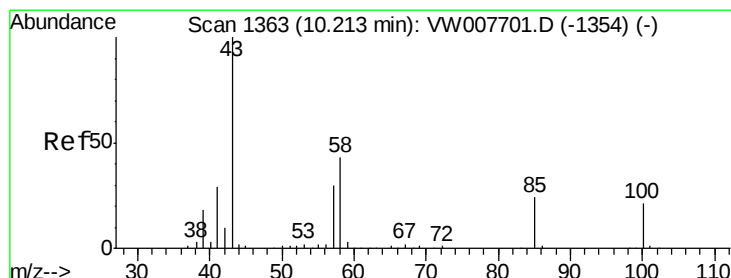
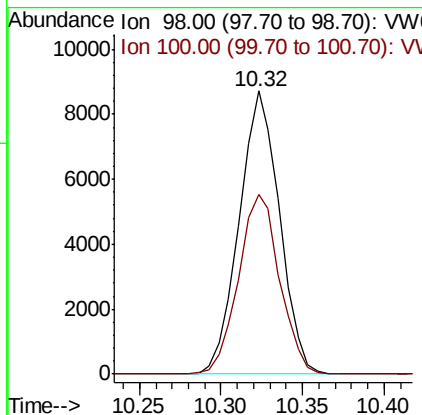
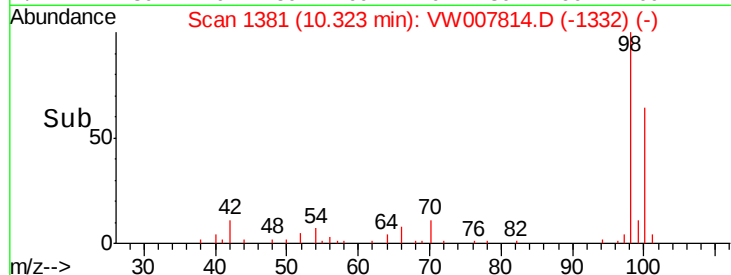
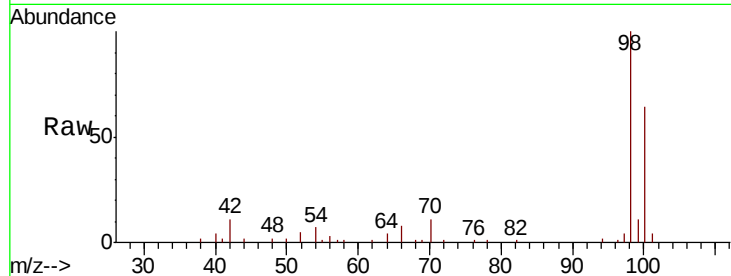
ClientSampled :

Tot Ion: 98 Resp: 14992

Ion Ratio Lower Upper

98 100

100 64.9 52.2 78.2



#51

4-Methyl-2-Pentanone

Concen: 4.086 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. -0.00 min

Lab File: VW007814.D

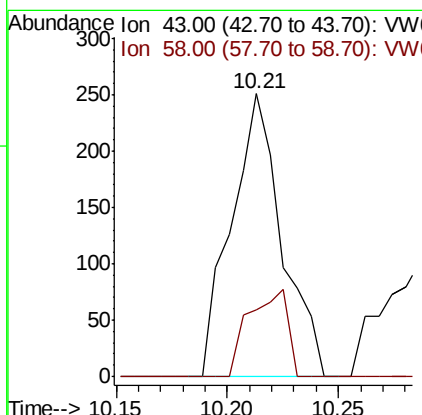
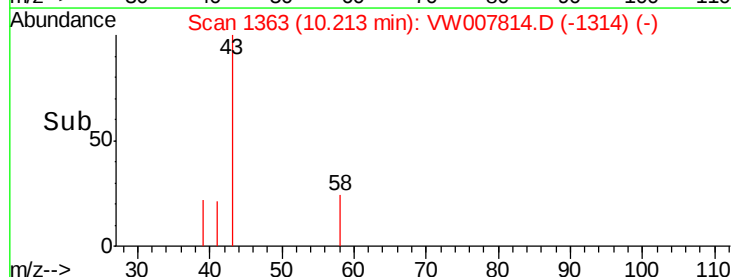
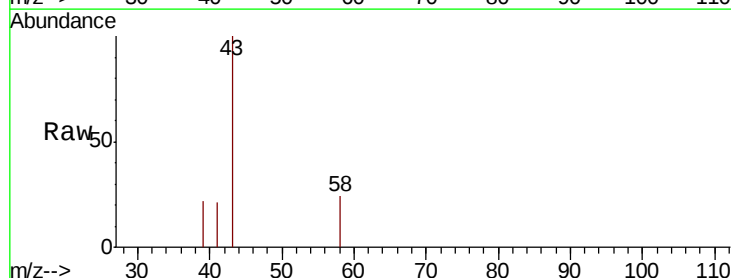
Acq: 21 Dec 2018 23:44

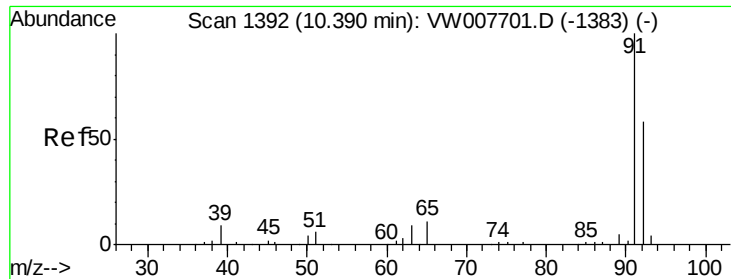
Tgt Ion: 43 Resp: 396

Ion Ratio Lower Upper

43 100

58 23.7 33.2 49.8#





#52

Toluene

Concen: 3.529 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW007814.D

Acq: 21 Dec 2018 23:44

Instrument :

MSVOA_W

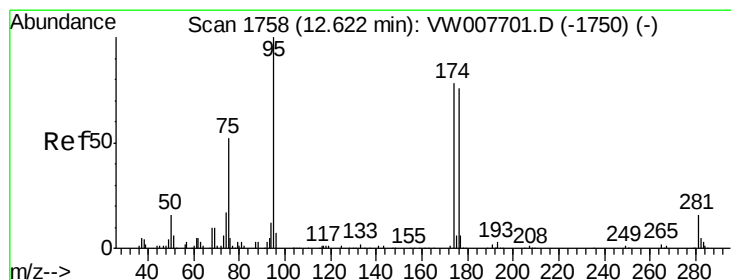
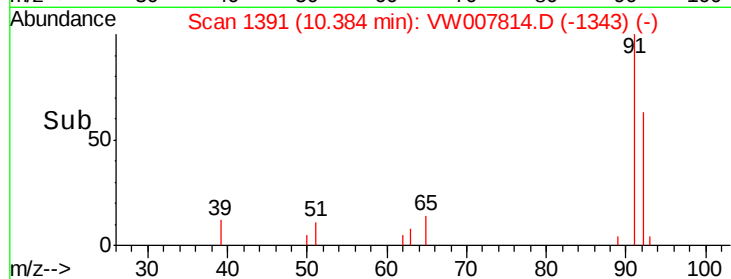
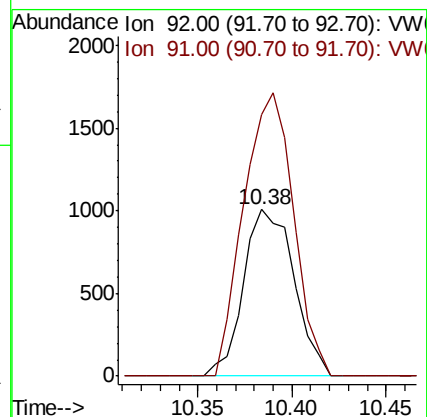
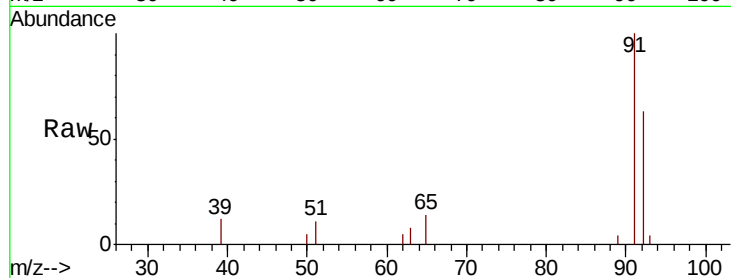
ClientSampleId :

Tot Ion: 92 Resp: 1874

Ion Ratio Lower Upper

92 100

91 167.6 137.0 205.4



#62

4-Bromofluorobenzene

Concen: 17.671 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007814.D

Acq: 21 Dec 2018 23:44

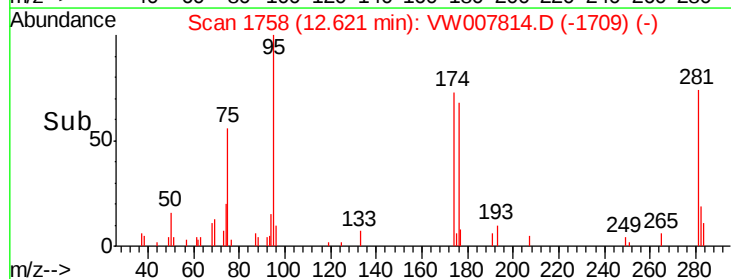
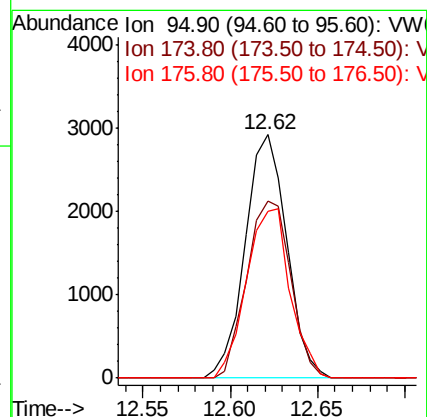
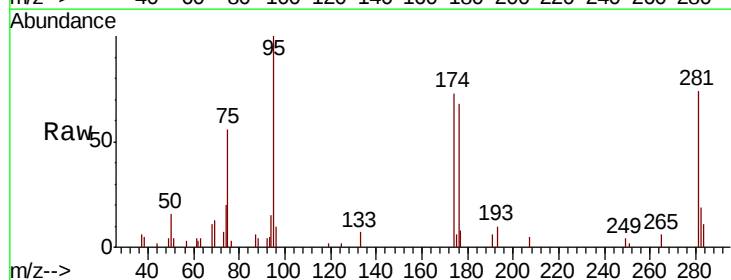
Tgt Ion: 95 Resp: 4825

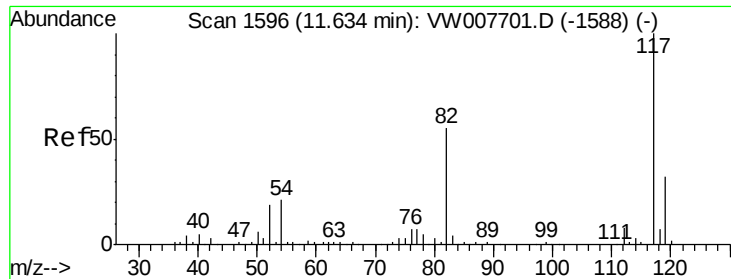
Ion Ratio Lower Upper

95 100

174 76.9 0.0 152.2

176 73.1 0.0 146.8

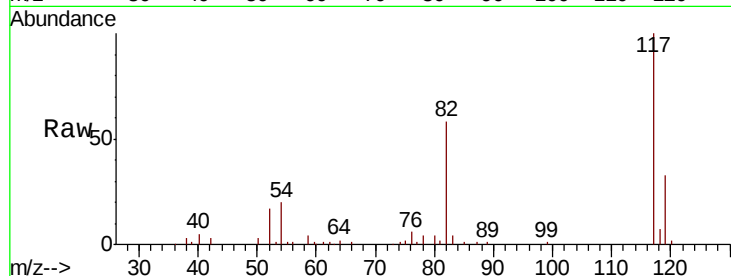




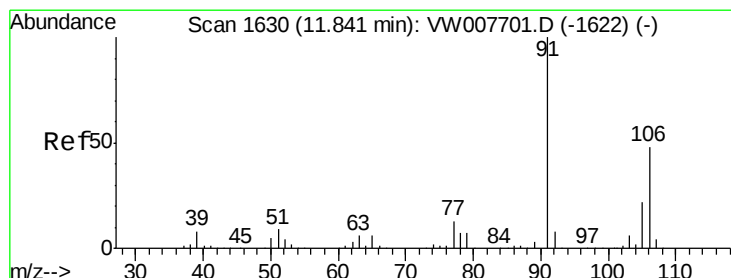
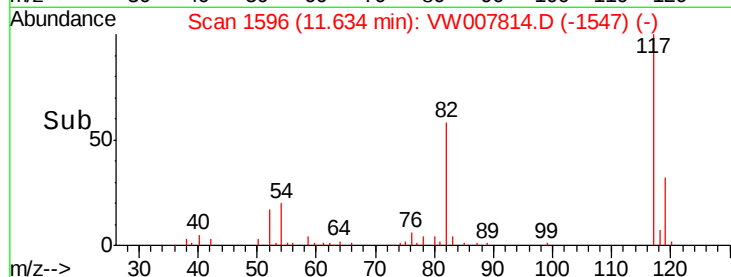
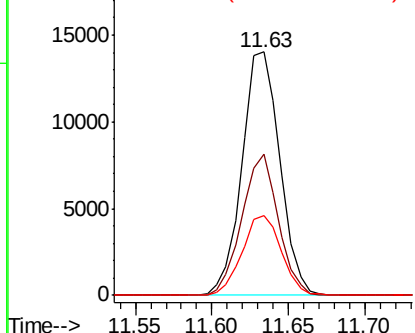
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW007814.D
Acq: 21 Dec 2018 23:44

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:117 Resp: 24181
Ion Ratio Lower Upper
117 100
82 58.0 44.3 66.5
119 32.8 25.7 38.5

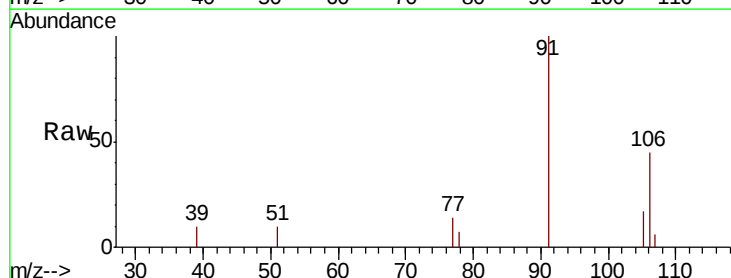


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VW
Ion 118.90 (118.60 to 119.60): V

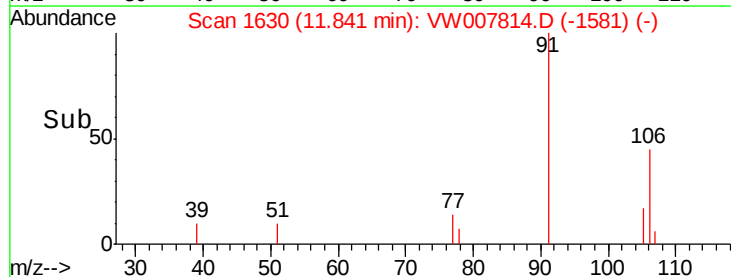
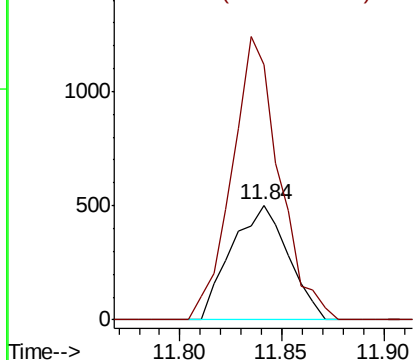


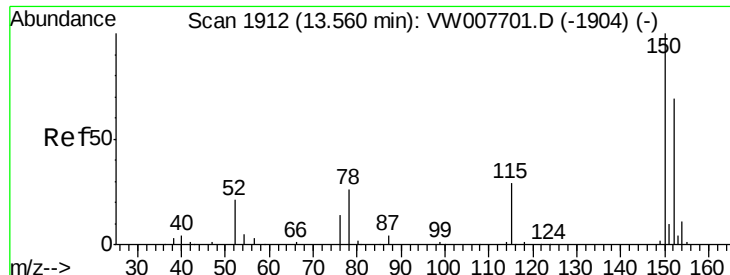
#68
m/p-Xylenes
Concen: 2.790 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW007814.D
Acq: 21 Dec 2018 23:44

Tgt Ion:106 Resp: 972
Ion Ratio Lower Upper
106 100
91 206.5 165.2 247.8



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW007814.D

Acq: 21 Dec 2018 23:44

Instrument :

MSVOA_W

ClientSampleId :

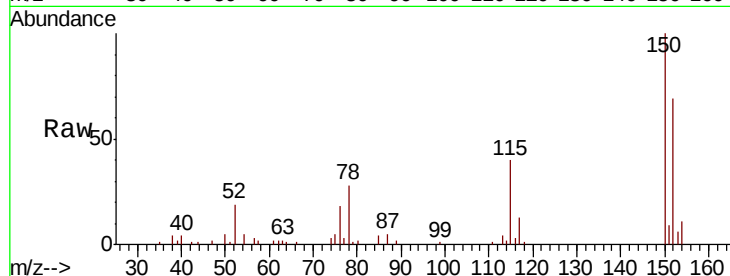
Tot Ion:152 Resp: 7305

Ion Ratio Lower Upper

152 100

115 61.8 31.8 95.4

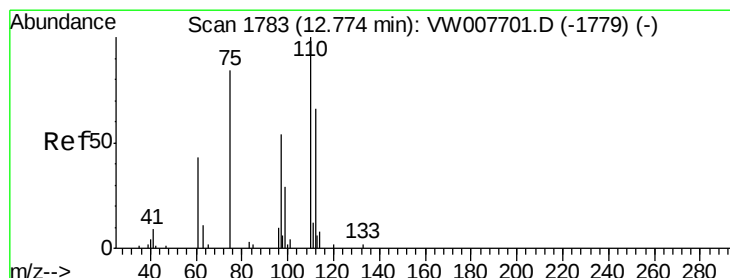
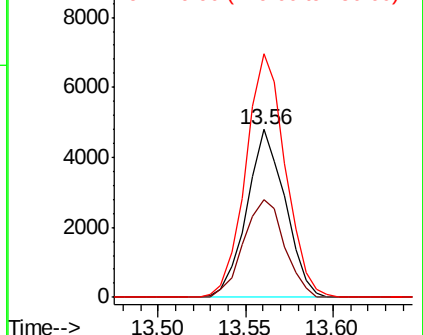
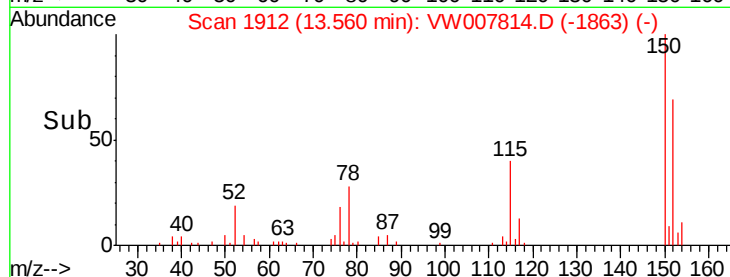
150 149.7 0.0 350.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 46.138 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW007814.D

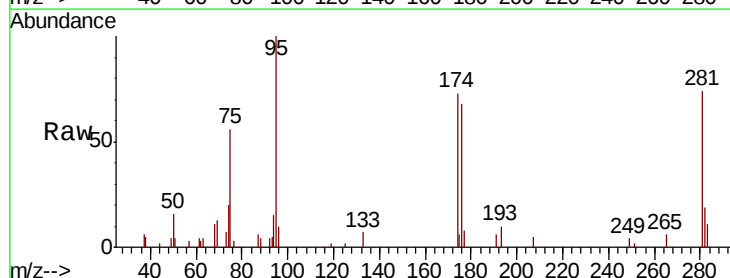
Acq: 21 Dec 2018 23:44

Tgt Ion: 75 Resp: 2605

Ion Ratio Lower Upper

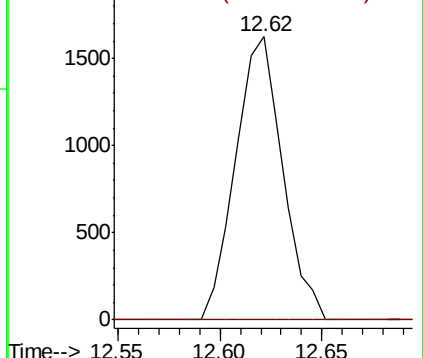
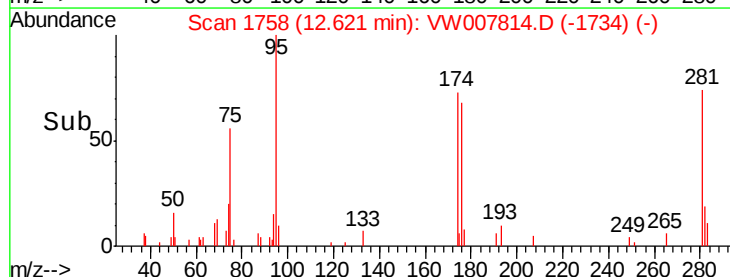
75 100

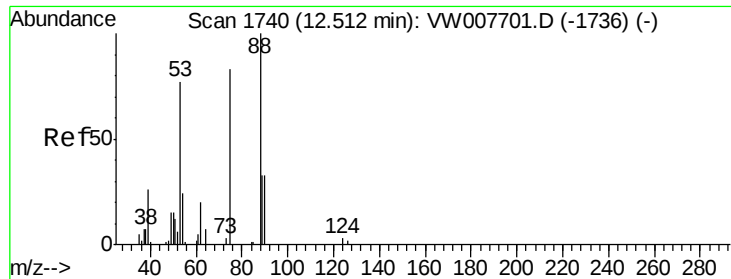
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 96.847 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW007814.D

Acq: 21 Dec 2018 23:44

Instrument :

MSVOA_W

ClientSampleId :

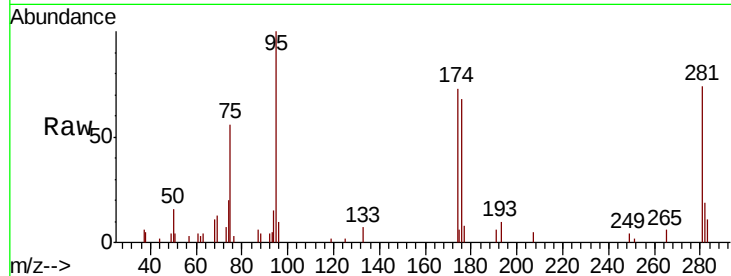
Tot Ion: 75 Resp: 2605

Ion Ratio Lower Upper

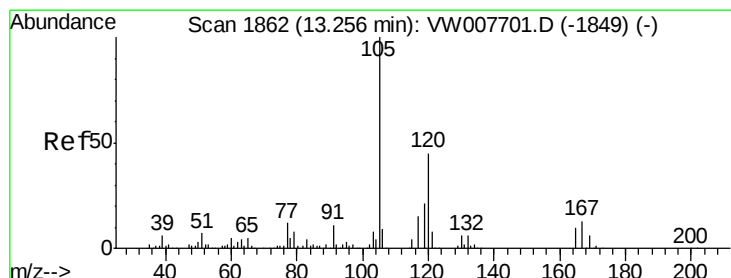
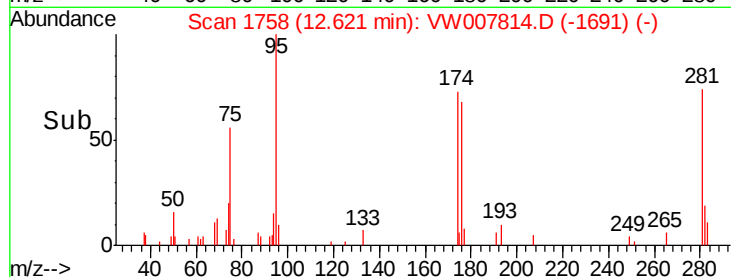
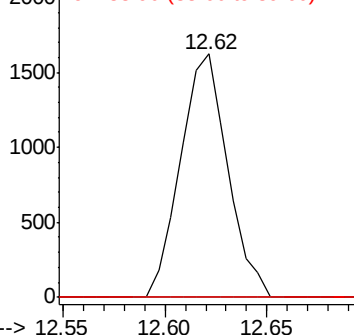
75 100

53 0.0 80.2 120.2#

89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 53.00 (52.70 to 53.70): VW
Ion 88.90 (88.60 to 89.60): VW



#84

1,2,4-Trimethylbenzene

Concen: 1.806 ug/l

RT: 13.25 min Scan# 1861

Delta R.T. -0.01 min

Lab File: VW007814.D

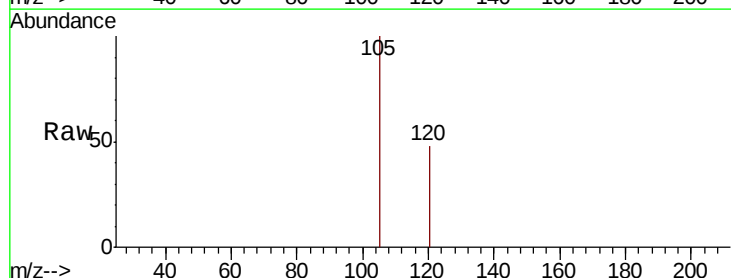
Acq: 21 Dec 2018 23:44

Tgt Ion: 105 Resp: 868

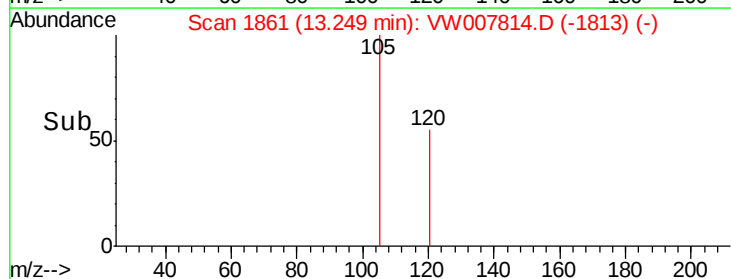
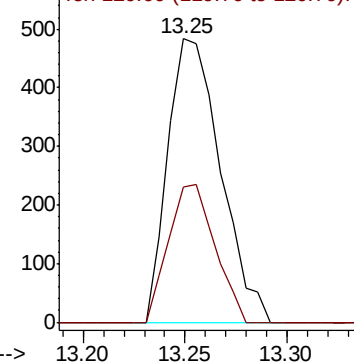
Ion Ratio Lower Upper

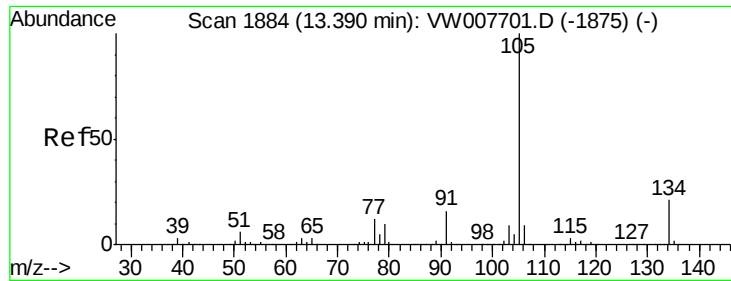
105 100

120 42.5 22.0 66.0



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

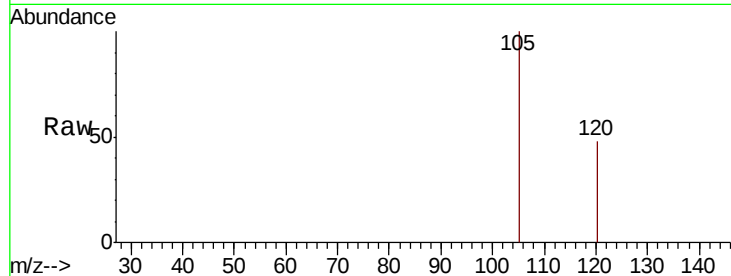




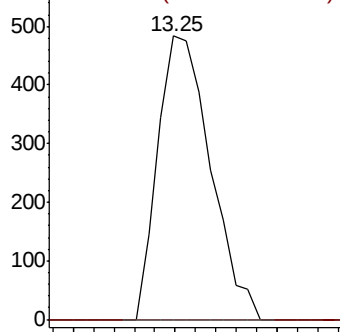
#85
 sec-Butylbenzene
 Concen: 1.507 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. -0.14 min
 Lab File: VW007814.D
 Acq: 21 Dec 2018 23:44

Instrument :
 MSVOA_W
 ClientSampleID :

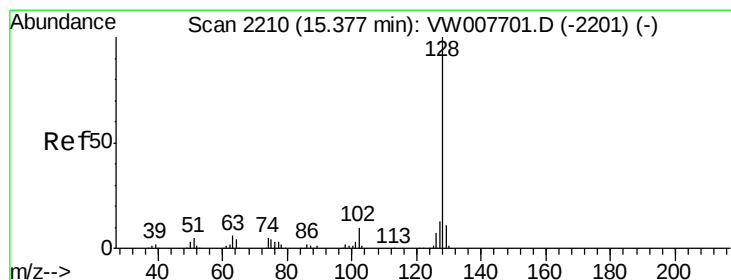
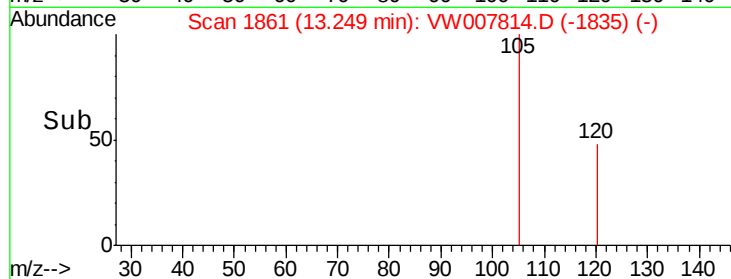
Tot Ion:105 Resp: 868
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.2 30.4#



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 134.00 (133.70 to 134.70): V

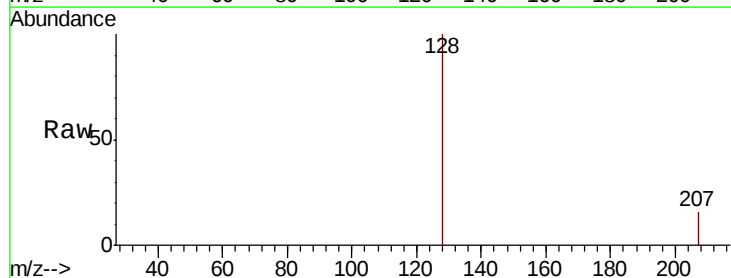


Time-->

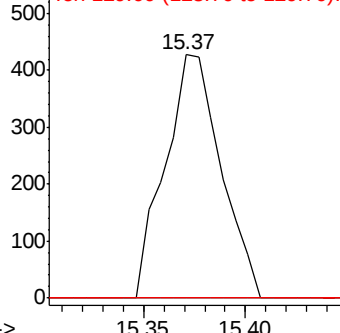


#95
 Naphthalene
 Concen: 2.823 ug/l
 RT: 15.37 min Scan# 2209
 Delta R.T. -0.01 min
 Lab File: VW007814.D
 Acq: 21 Dec 2018 23:44

Tgt Ion:128 Resp: 815
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.7 16.1#
 129 0.0 8.8 13.2#



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



Time-->

