

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW073018\
 Data File : VW004336.D
 Acq On : 30 Jul 2018 02:52
 Operator : SY/AP
 Sample : J4152-01RE
 Misc : 5.36G/5ML/MSVOA W/SOIL
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

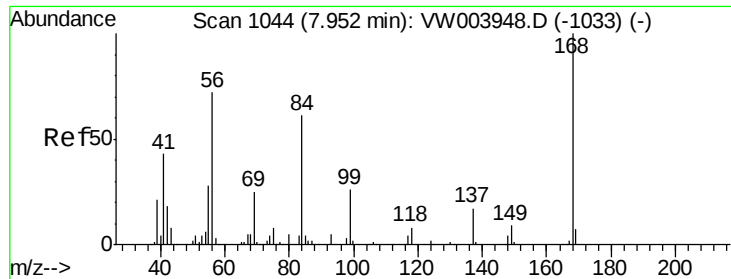
Quant Time: Jul 30 06:59:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W073018S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 30 02:37:04 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	41828	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	61676	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	52005	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	24340	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	20442	48.45	ug/l	0.00
Spiked Amount			Recovery	=	96.90%	
35) Dibromofluoromethane	7.89	113	19082	48.96	ug/l	0.00
Spiked Amount			Recovery	=	97.92%	
50) Toluene-d8	10.33	98	67289	43.68	ug/l	0.00
Spiked Amount			Recovery	=	87.36%	
62) 4-Bromofluorobenzene	12.62	95	21218	39.12	ug/l	0.00
Spiked Amount			Recovery	=	78.24%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.14	59	23	Below Cal	#	72
16) Acetone	4.13	43	2651	36.823	ug/l	95
18) Methyl Acetate	4.66	43	108	1.320	ug/l #	54
20) Methylene Chloride	4.92	84	2495	4.777	ug/l #	62
25) 2-Butanone	7.15	43	515	4.395	ug/l #	50
26) 2,2-Dichloropropane	7.15	77	630	1.331	ug/l #	52
29) Tetrahydrofuran	7.54	42	20	2.905	ug/l #	35
36) 1,1-Dichloropropene	7.95	75	3036	4.921	ug/l #	48
37) Ethyl Acetate	7.15	43	515	2.037	ug/l #	1
38) Carbon Tetrachloride	7.95	117	3860	6.336	ug/l #	13
51) 4-Methyl-2-Pentanone	10.32	43	278	1.112	ug/l #	1
74) N-amyl acetate	12.26	43	20	1.922	ug/l #	42
76) 1,2,3-Trichloropropane	12.62	75	9927	44.688	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	9927	103.984	ug/l #	11
95) Naphthalene	15.37	128	2027	2.297	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.00 min

Lab File: VW004336.D

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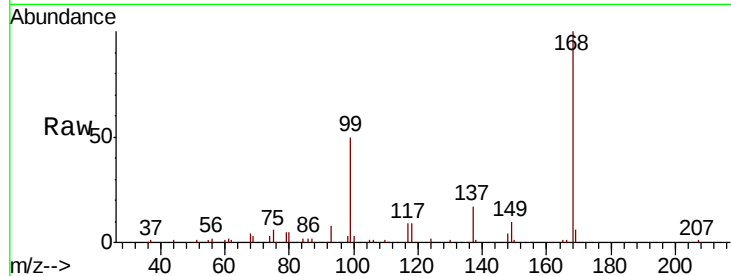
Instrument :
MSVOA_W
ClientSampled :

Tot Ion:168 Resp: 41828

Ion Ratio Lower Upper

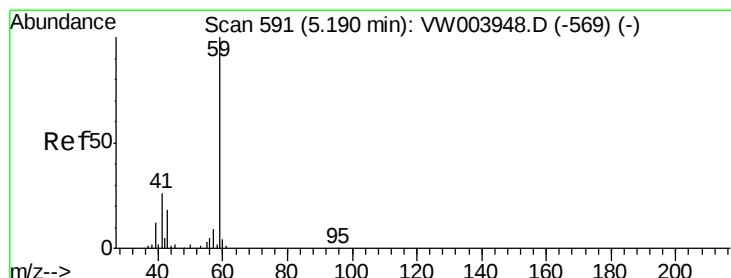
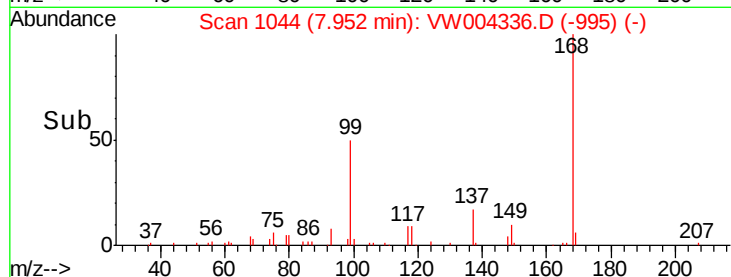
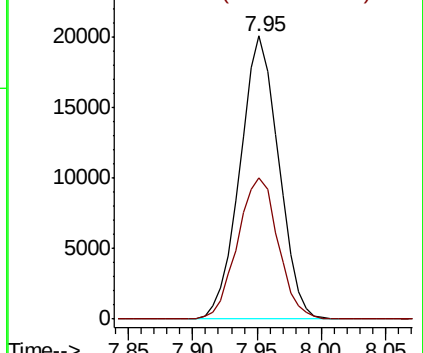
168 100

99 49.8 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.14 min Scan# 582

Delta R.T. -0.04 min

Lab File: VW004336.D

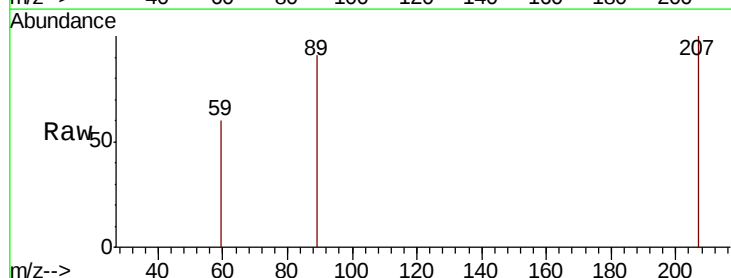
Acq: 30 Jul 2018 02:52

Tgt Ion: 59 Resp: 23

Ion Ratio Lower Upper

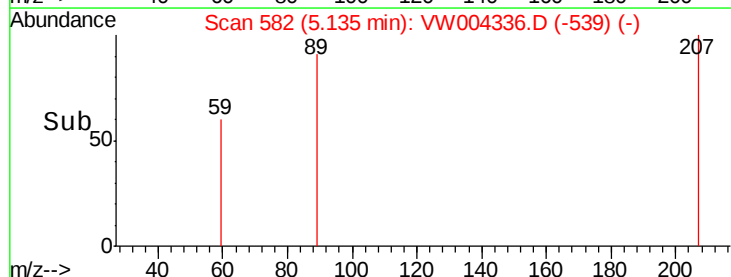
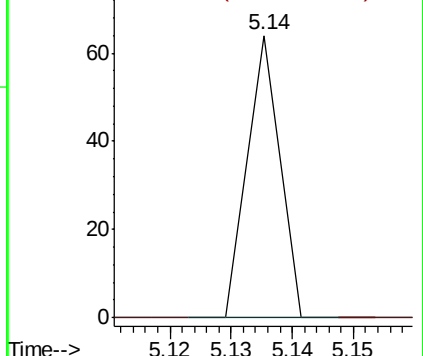
59 100

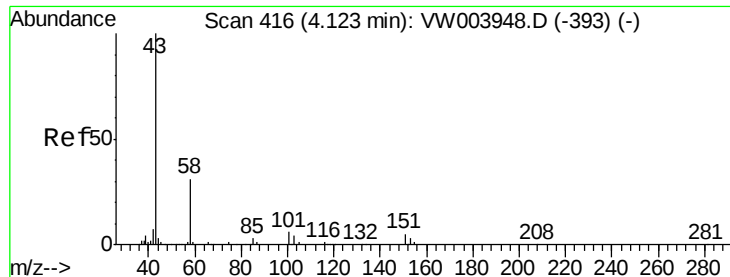
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 36.823 ug/l

RT: 4.13 min Scan# 417

Delta R.T. 0.01 min

Lab File: VW004336.D

Acq: 30 Jul 2018 02:52

Instrument :

MSVOA_W

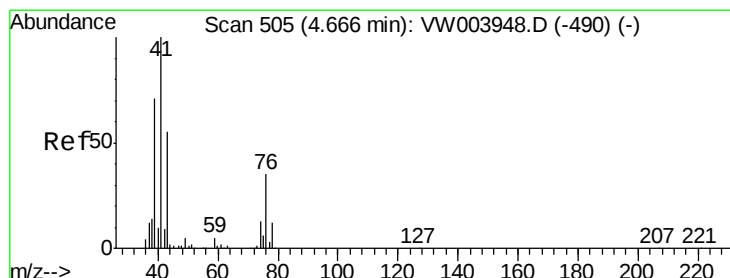
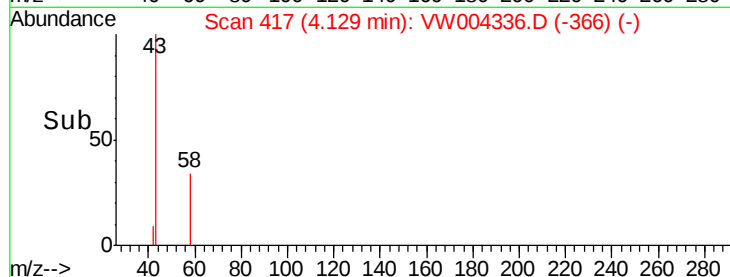
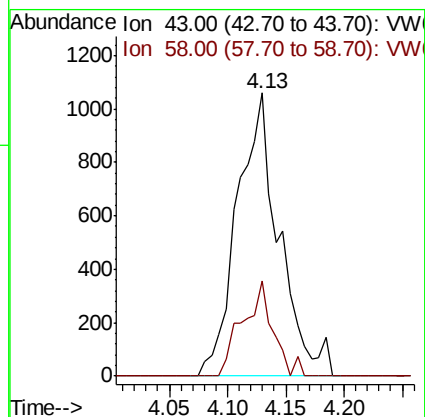
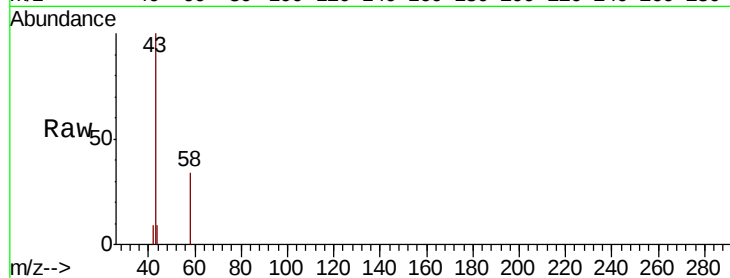
ClientSampled :

Tot Ion: 43 Resp: 2651

Ion Ratio Lower Upper

43 100

58 33.5 24.8 37.2



#18

Methyl Acetate

Concen: 1.320 ug/l

RT: 4.66 min Scan# 504

Delta R.T. -0.01 min

Lab File: VW004336.D

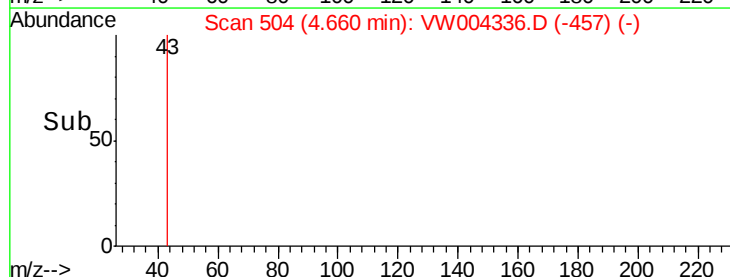
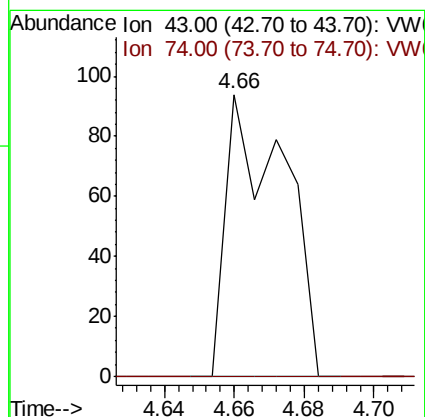
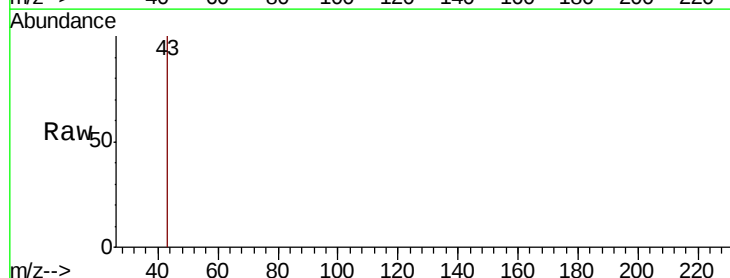
Acq: 30 Jul 2018 02:52

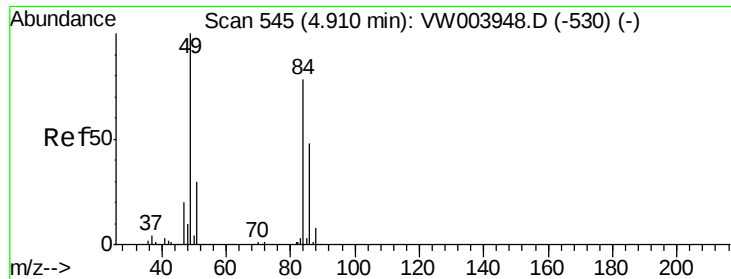
Tgt Ion: 43 Resp: 108

Ion Ratio Lower Upper

43 100

74 0.0 17.8 26.6#

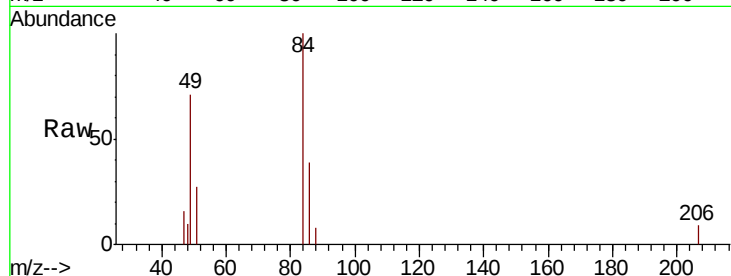




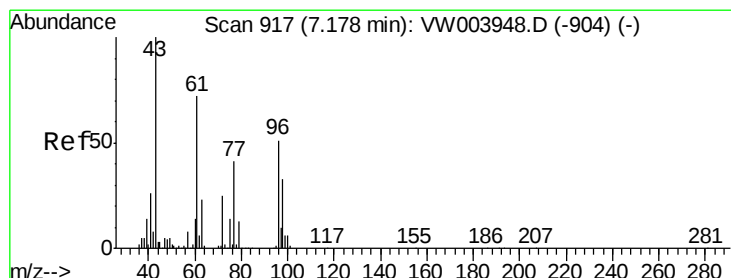
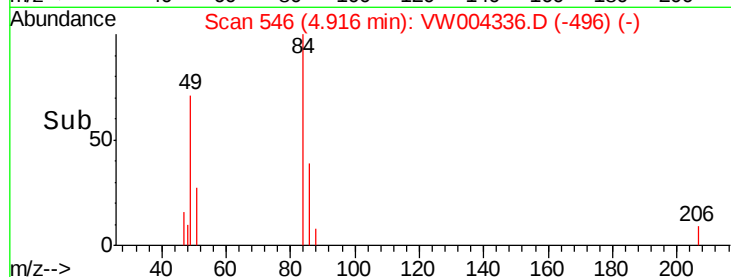
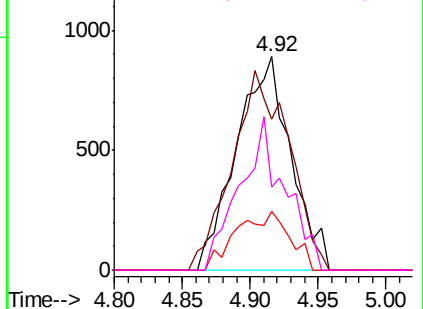
#20
Methylene Chloride
Concen: 4.777 ug/l
RT: 4.92 min Scan# 546
Delta R.T. 0.01 min
Lab File: VW004336.D
Acq: 30 Jul 2018 02:52

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 84 Resp: 2495
Ion Ratio Lower Upper
84 100
49 70.6 100.5 150.7#
51 27.4 30.9 46.3#
86 39.1 50.2 75.4#

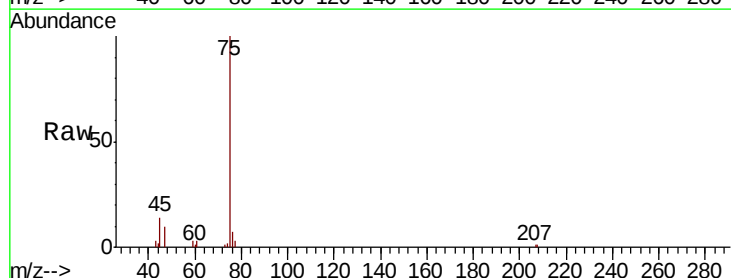


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

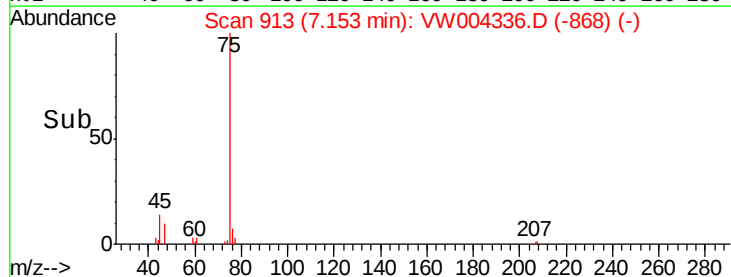
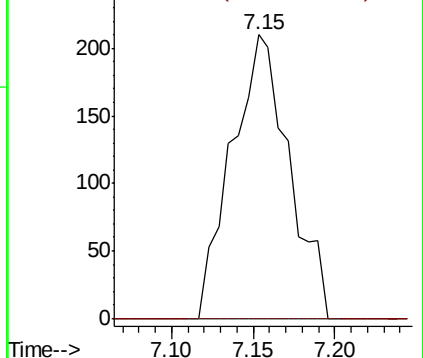


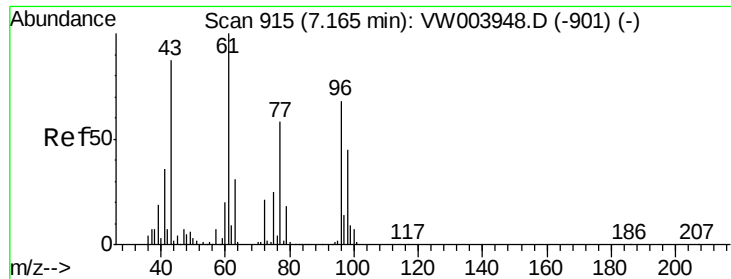
#25
2-Butanone
Concen: 4.395 ug/l
RT: 7.15 min Scan# 913
Delta R.T. -0.02 min
Lab File: VW004336.D
Acq: 30 Jul 2018 02:52

Tgt Ion: 43 Resp: 515
Ion Ratio Lower Upper
43 100
72 0.0 20.3 30.5#



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





#26

2,2-Dichloropropane

Concen: 1.331 ug/l

RT: 7.15 min Scan# 912

Delta R.T. -0.02 min

Lab File: VW004336.D

Acq: 30 Jul 2018 02:52

Instrument :

MSVOA_W

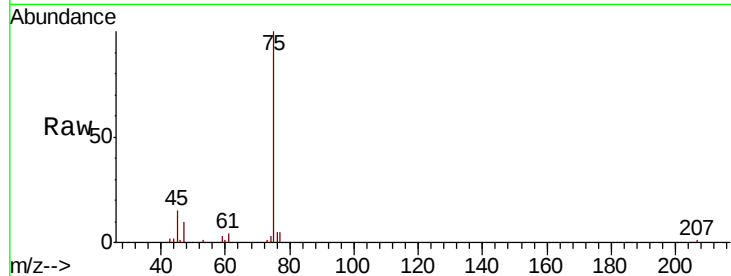
ClientSampleId :

Tot Ion: 77 Resp: 630

Ion Ratio Lower Upper

77 100

97 0.0 11.7 35.1#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW

7.15

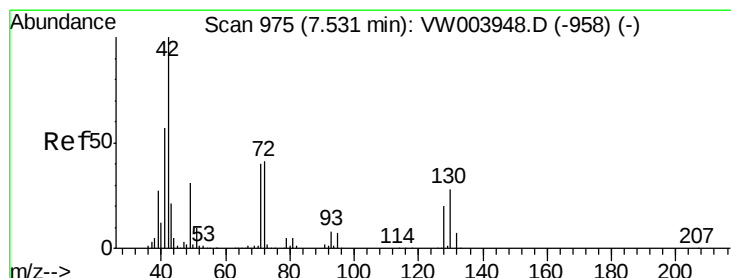
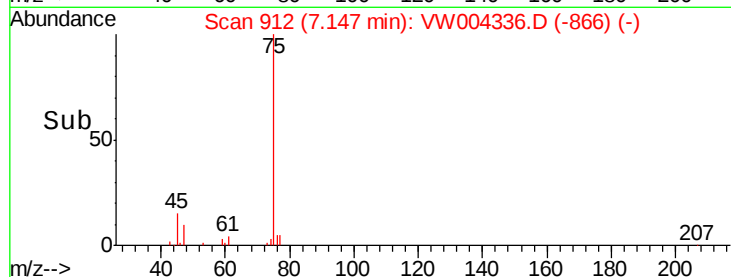
300

200

100

0

Time-->



#29

Tetrahydrofuran

Concen: 2.905 ug/l

RT: 7.54 min Scan# 977

Delta R.T. 0.01 min

Lab File: VW004336.D

Acq: 30 Jul 2018 02:52

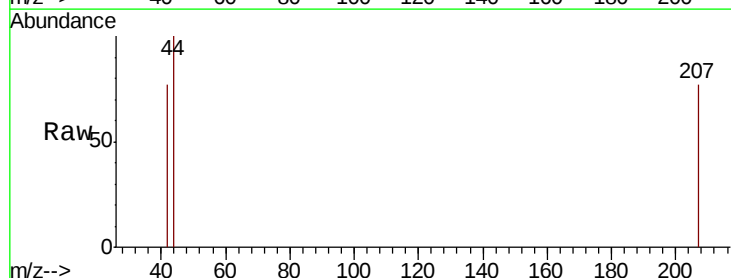
Tgt Ion: 42 Resp: 20

Ion Ratio Lower Upper

42 100

72 0.0 32.6 48.8#

71 0.0 31.3 46.9#



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

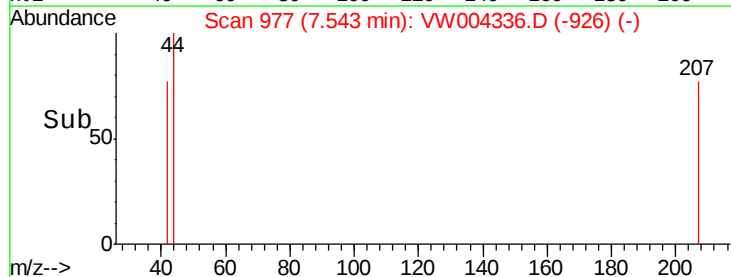
60

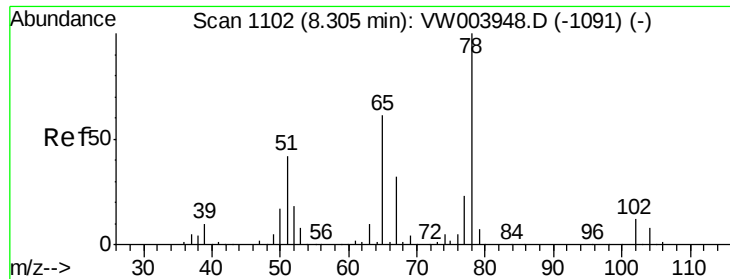
40

20

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 48.449 ug/l

RT: 8.31 min Scan# 1103

Delta R.T. -0.00 min

Lab File: VW004336.D

Acq: 30 Jul 2018 02:52

Instrument :

MSVOA_W

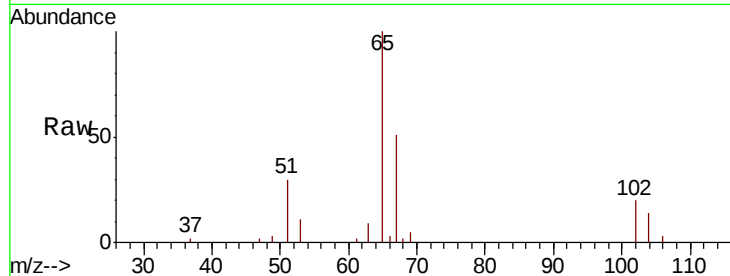
ClientSampleId :

Tot Ion: 65 Resp: 20442

Ion Ratio Lower Upper

65 100

67 50.1 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

8.31

10000

8000

6000

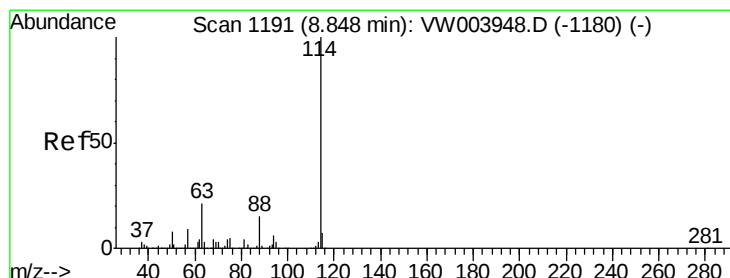
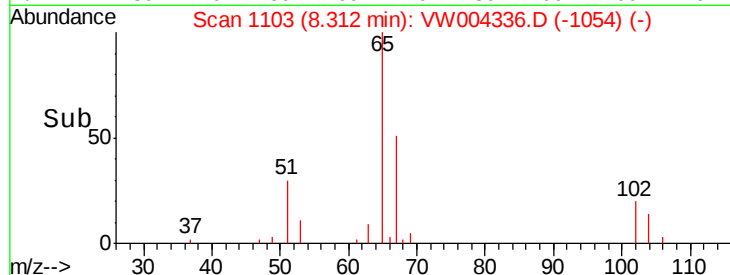
4000

2000

0

8.20 8.25 8.30 8.35 8.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1191

Delta R.T. -0.00 min

Lab File: VW004336.D

Acq: 30 Jul 2018 02:52

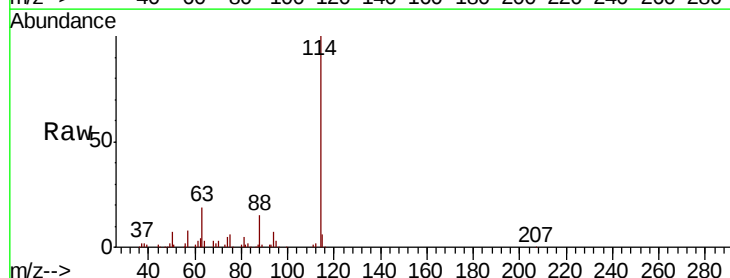
Tgt Ion: 114 Resp: 61676

Ion Ratio Lower Upper

114 100

63 18.7 0.0 41.4

88 15.5 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW

40000

30000

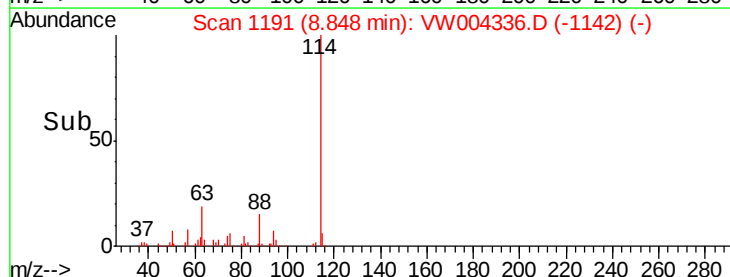
20000

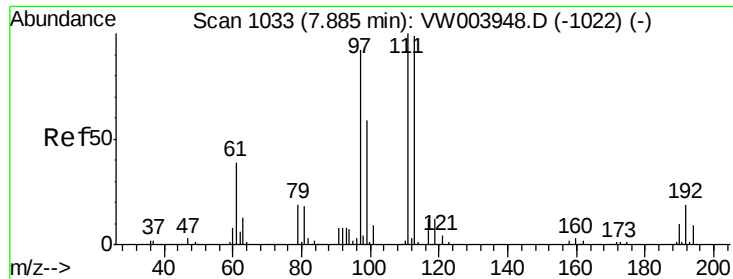
10000

0

8.75 8.80 8.85 8.90 8.95

Time-->

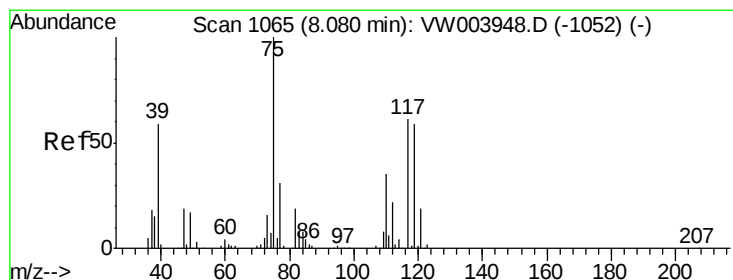
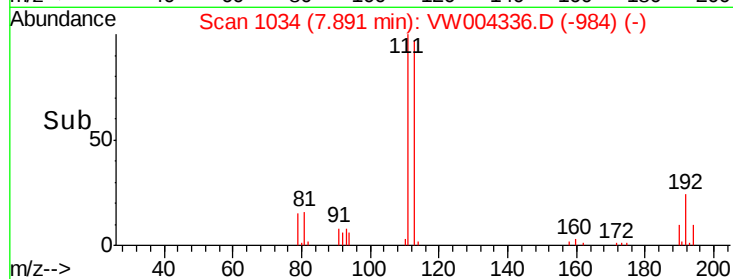
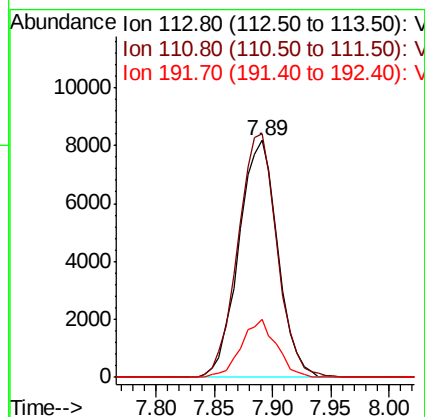
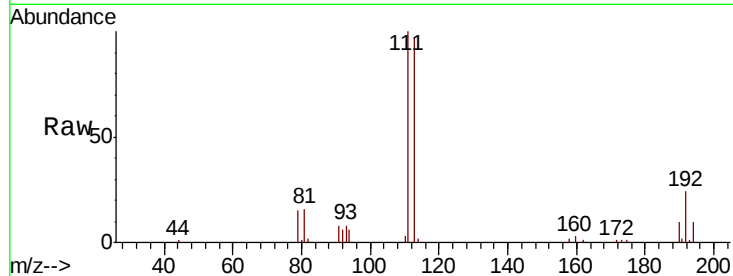




#35
 Dibromofluoromethane
 Concen: 48.957 ug/l
 RT: 7.89 min Scan# 1034
 Delta R.T. 0.01 min
 Lab File: VW004336.D
 Acq: 30 Jul 2018 02:52

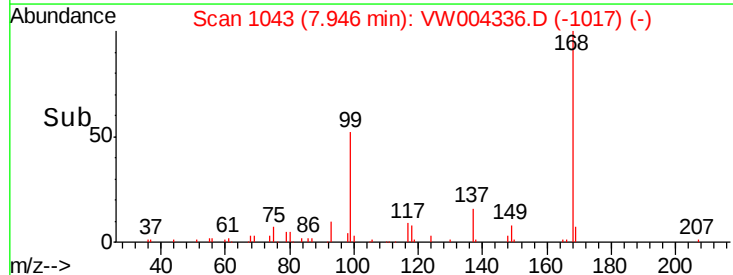
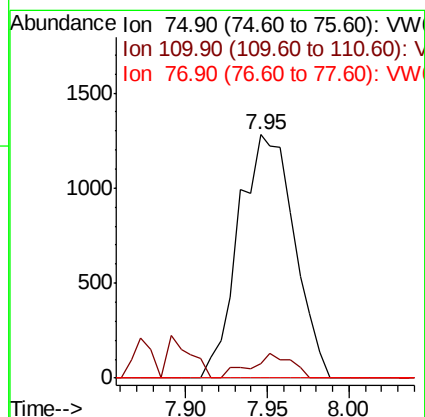
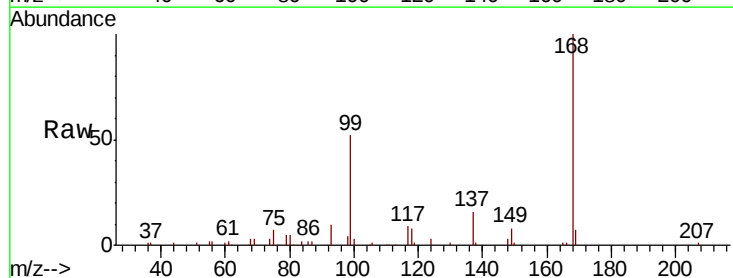
Instrument :
 MSVOA_W
 ClientSampled :

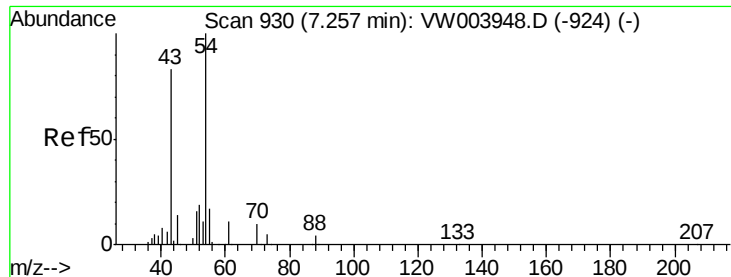
Tot Ion:113 Resp: 19082
 Ion Ratio Lower Upper
 113 100
 111 103.2 82.1 123.1
 192 22.1 16.2 24.4



#36
 1,1-Dichloropropene
 Concen: 4.921 ug/l
 RT: 7.95 min Scan# 1043
 Delta R.T. -0.14 min
 Lab File: VW004336.D
 Acq: 30 Jul 2018 02:52

Tgt Ion: 75 Resp: 3036
 Ion Ratio Lower Upper
 75 100
 110 7.4 17.3 52.0#
 77 0.0 25.0 37.6#





#37

Ethyl Acetate

Concen: 2.037 ug/l

RT: 7.15 min Scan# 913

Delta R.T. -0.10 min

Lab File: VW004336.D

Acq: 30 Jul 2018 02:52

Instrument :

MSVOA_W

ClientSampleId :

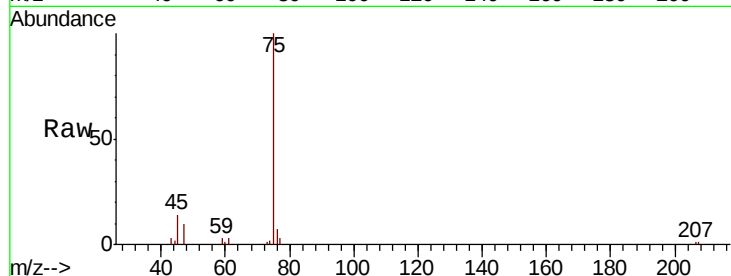
Tot Ion: 43 Resp: 515

Ion Ratio Lower Upper

43 100

61 95.3 11.1 16.7#

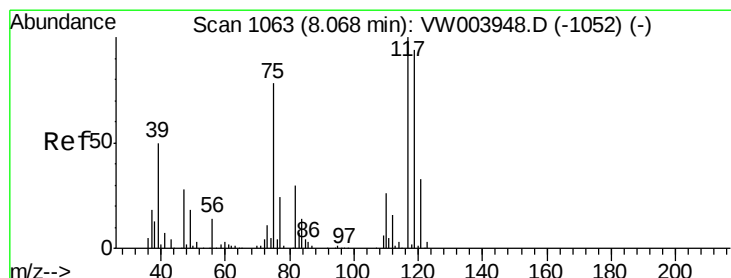
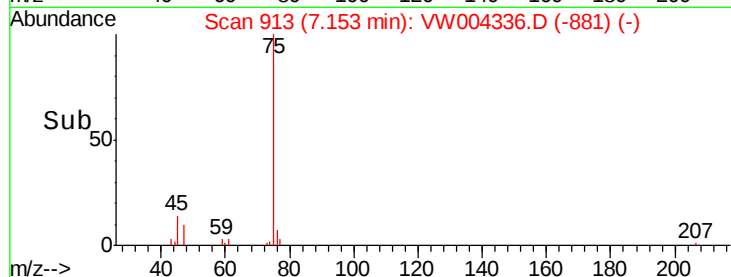
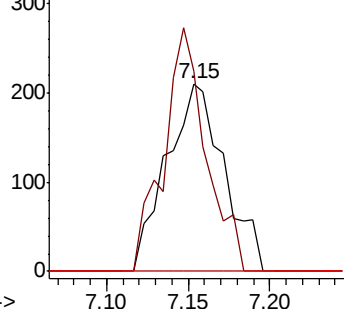
70 0.0 7.8 11.6#



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: 6.336 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.12 min

Lab File: VW004336.D

Acq: 30 Jul 2018 02:52

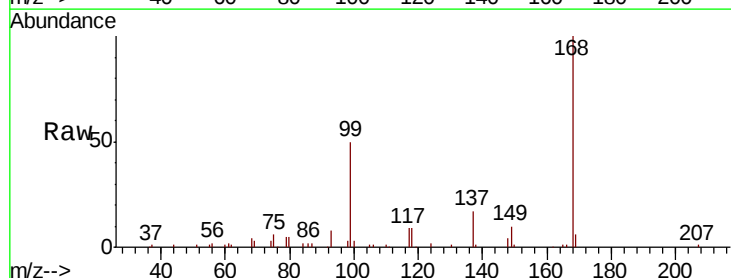
Tgt Ion: 117 Resp: 3860

Ion Ratio Lower Upper

117 100

119 3.5 79.7 119.5#

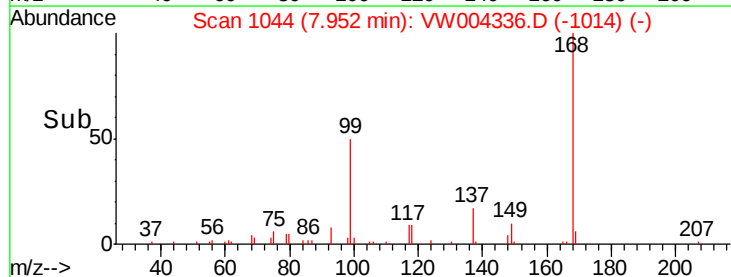
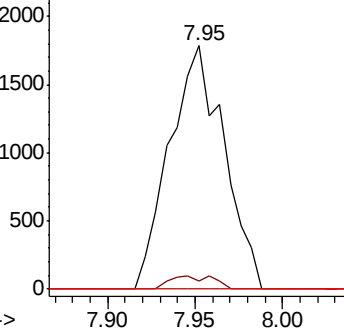
121 0.0 25.7 38.5#

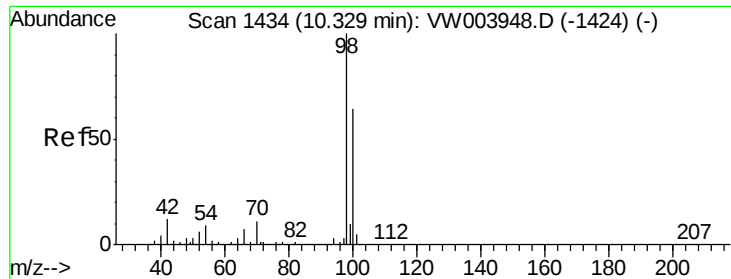


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 43.683 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW004336.D

Acq: 30 Jul 2018 02:52

Instrument :

MSVOA_W

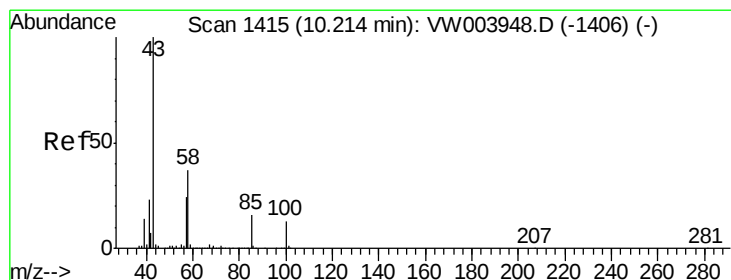
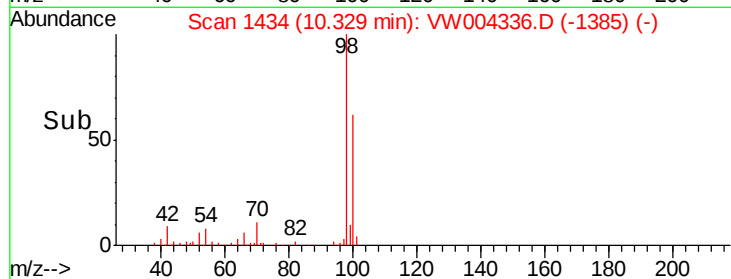
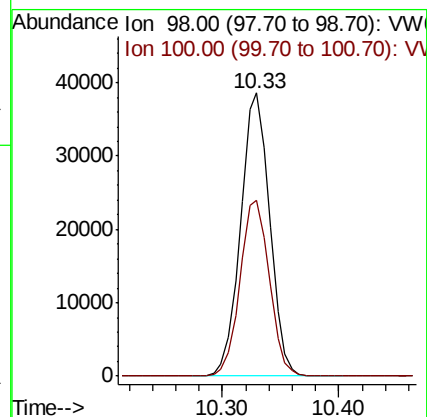
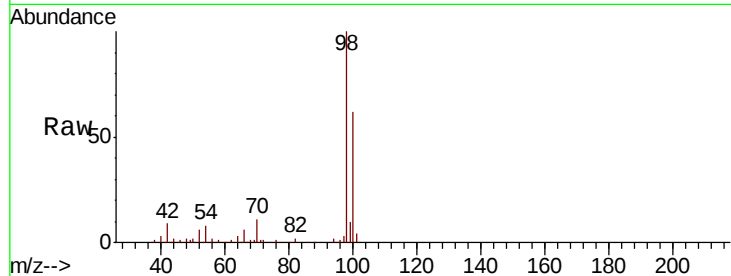
ClientSampled :

Tot Ion: 98 Resp: 67289

Ion Ratio Lower Upper

98 100

100 62.7 51.5 77.3



#51

4-Methyl-2-Pentanone

Concen: 1.112 ug/l

RT: 10.32 min Scan# 1433

Delta R.T. 0.11 min

Lab File: VW004336.D

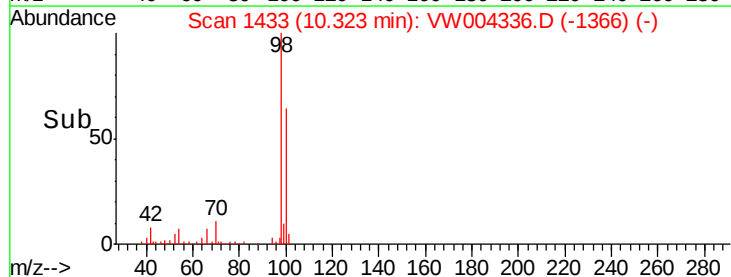
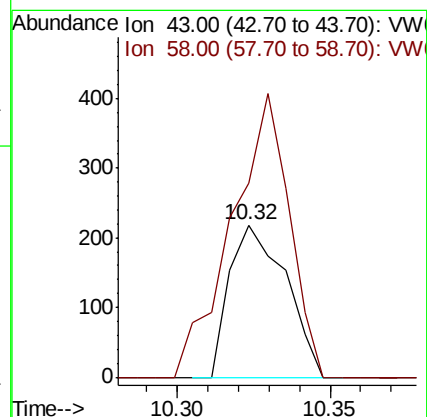
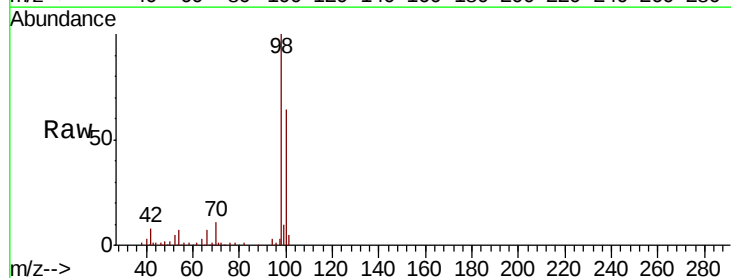
Acq: 30 Jul 2018 02:52

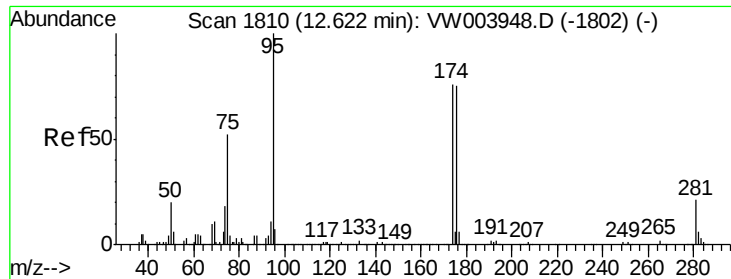
Tgt Ion: 43 Resp: 278

Ion Ratio Lower Upper

43 100

58 190.6 30.6 45.8#





#62

4-Bromofluorobenzene

Concen: 39.121 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VW004336.D

Acq: 30 Jul 2018 02:52

Instrument :

MSVOA_W

ClientSampleId :

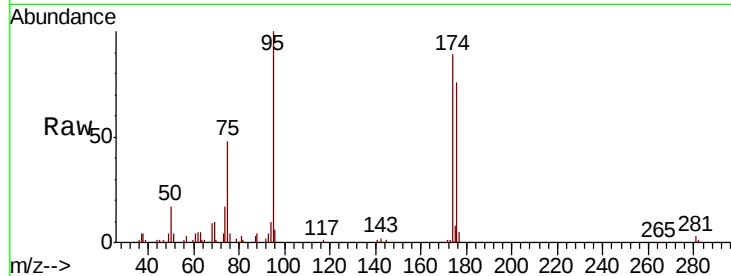
Tot Ion: 95 Resp: 21218

Ion Ratio Lower Upper

95 100

174 90.6 0.0 167.8

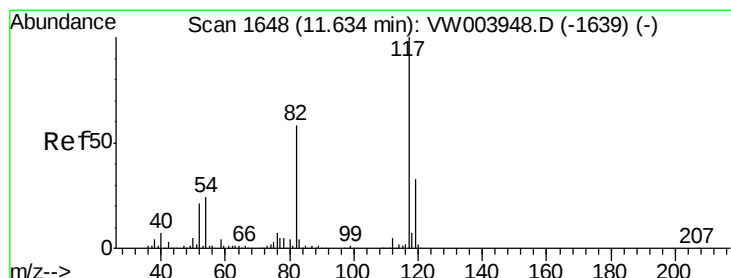
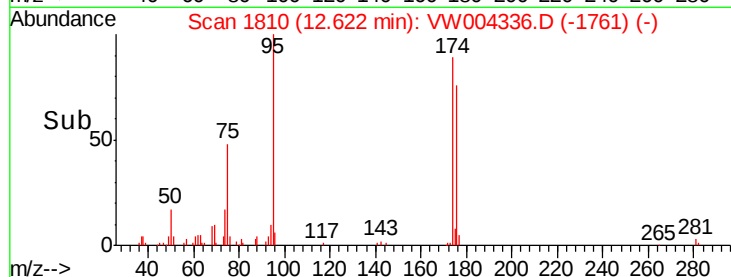
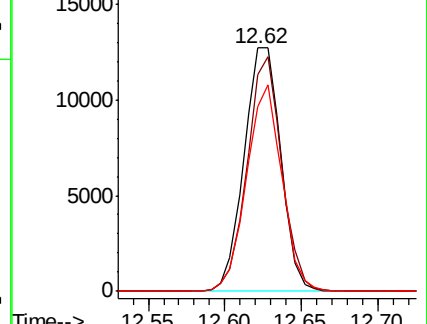
176 81.6 0.0 162.4



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1648

Delta R.T. -0.00 min

Lab File: VW004336.D

Acq: 30 Jul 2018 02:52

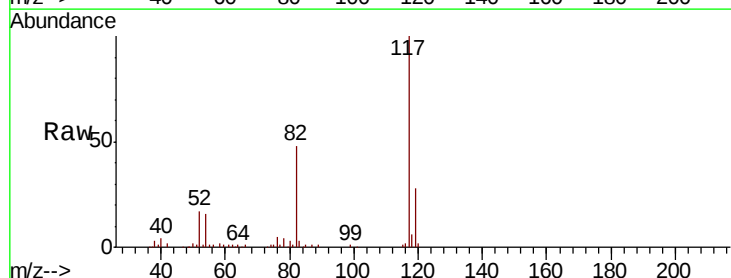
Tgt Ion: 117 Resp: 52005

Ion Ratio Lower Upper

117 100

82 48.1 47.9 71.9

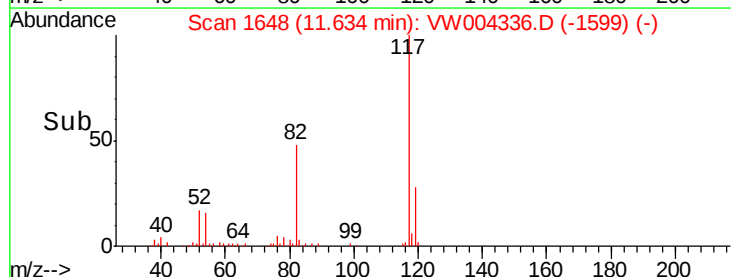
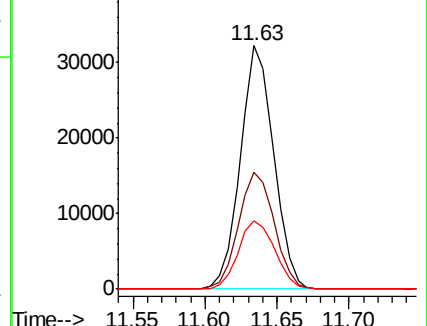
119 27.9 27.1 40.7

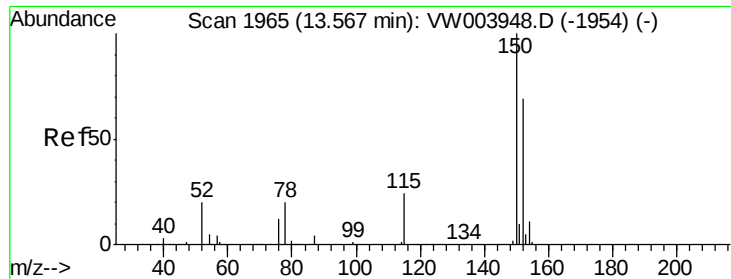


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VW004336.D

Acq: 30 Jul 2018 02:52

Instrument :

MSVOA_W

ClientSampleId :

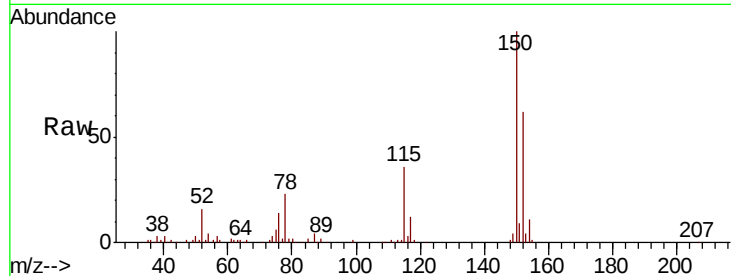
Tot Ion:152 Resp: 24340

Ion Ratio Lower Upper

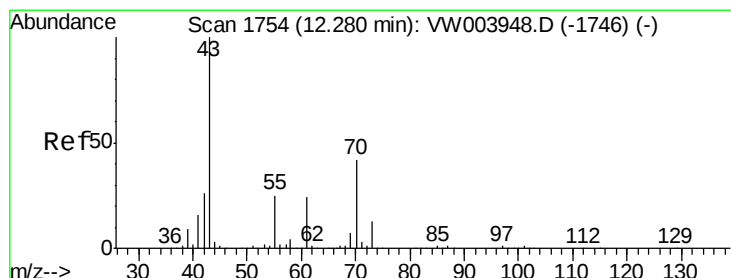
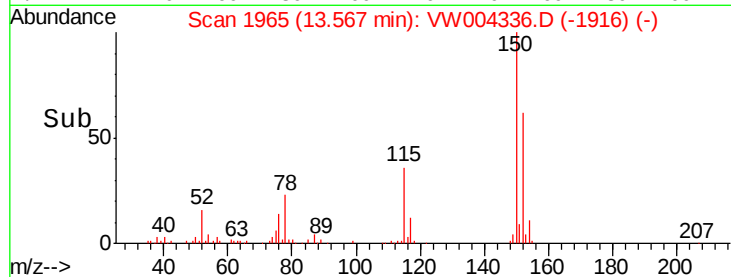
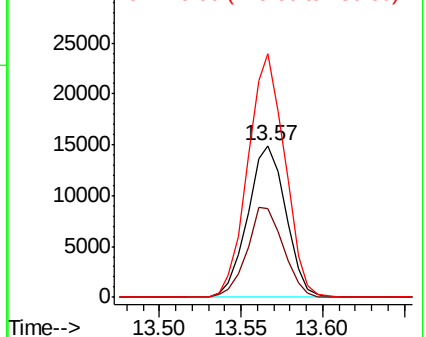
152 100

115 56.8 28.8 86.4

150 155.0 0.0 346.4



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



#74

N-ethyl acetate

Concen: 1.922 ug/l

RT: 12.26 min Scan# 1751

Delta R.T. -0.02 min

Lab File: VW004336.D

Acq: 30 Jul 2018 02:52

Tgt Ion: 43 Resp: 20

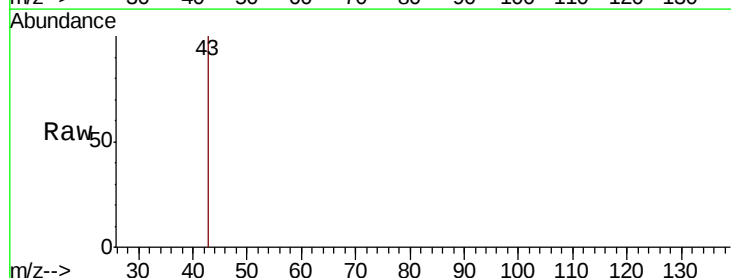
Ion Ratio Lower Upper

43 100

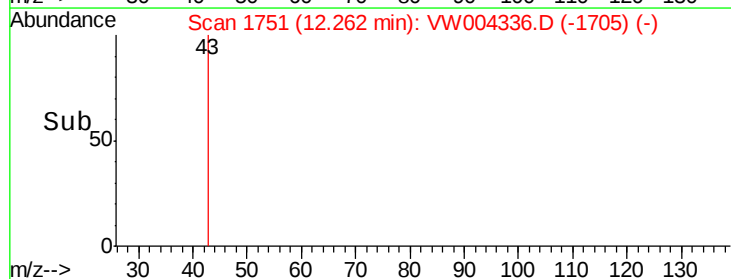
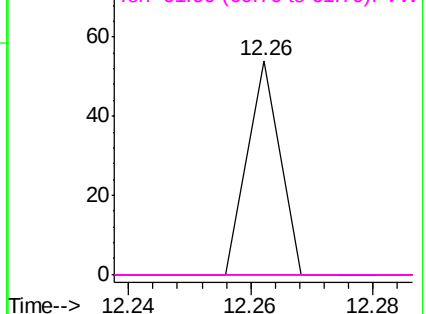
70 0.0 34.2 51.4#

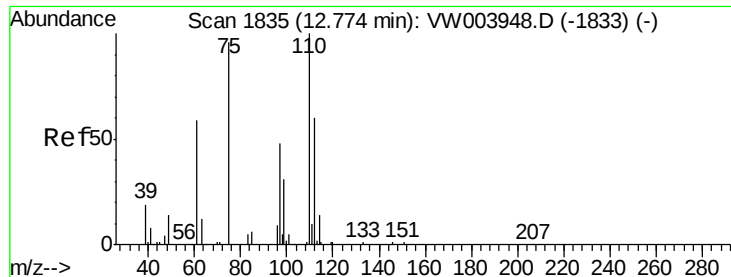
55 0.0 21.8 32.8#

61 0.0 18.9 28.3#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 70.00 (69.70 to 70.70): VW
Ion 55.00 (54.70 to 55.70): VW
Ion 61.00 (60.70 to 61.70): VW





#76

1,2,3-Trichloropropane

Concen: 44.688 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW004336.D

Acq: 30 Jul 2018 02:52

Instrument :

MSVOA_W

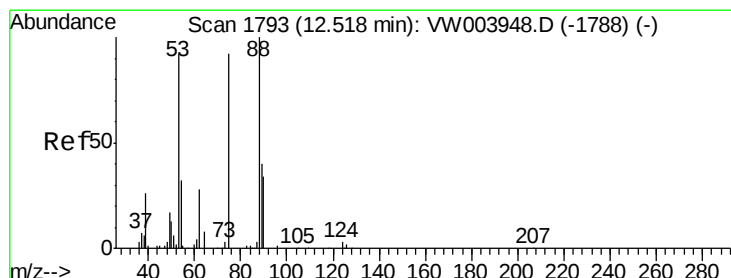
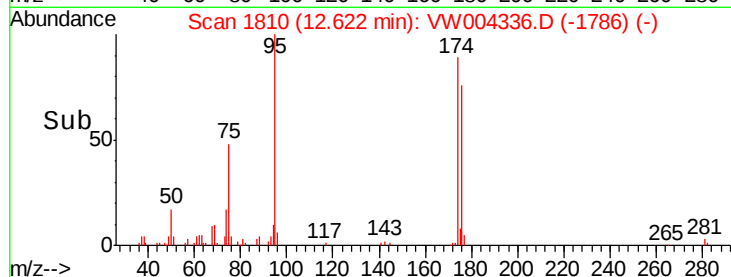
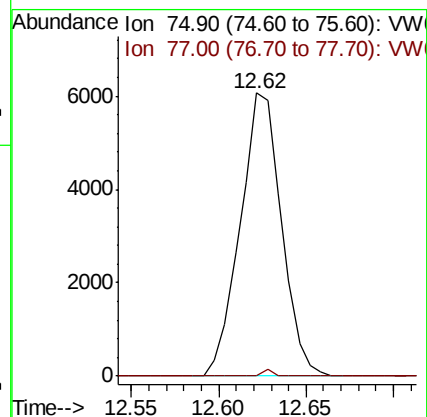
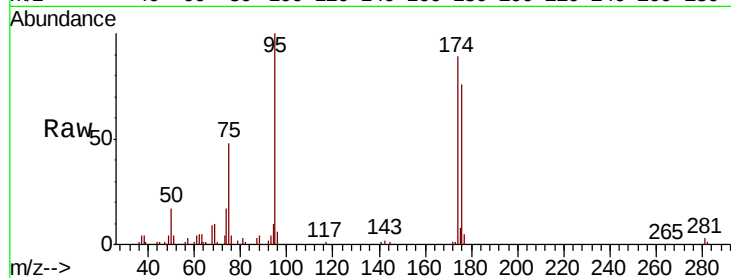
ClientSampleId :

Tot Ion: 75 Resp: 9927

Ion Ratio Lower Upper

75 100

77 0.5 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 103.984 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW004336.D

Acq: 30 Jul 2018 02:52

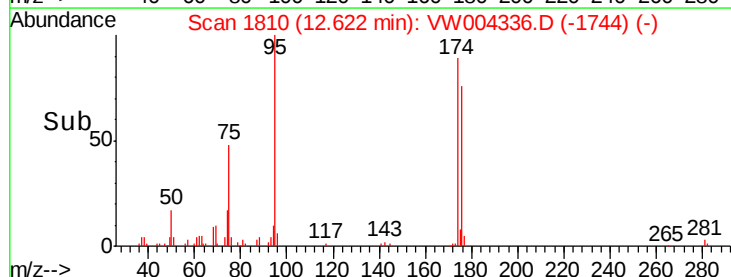
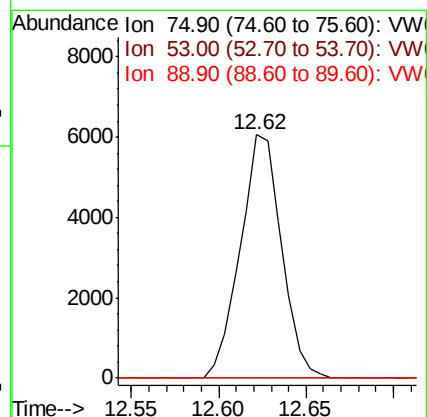
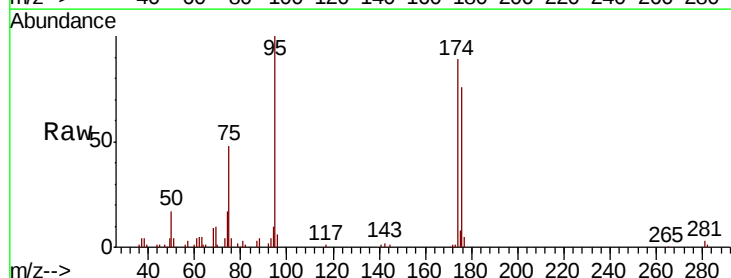
Tgt Ion: 75 Resp: 9927

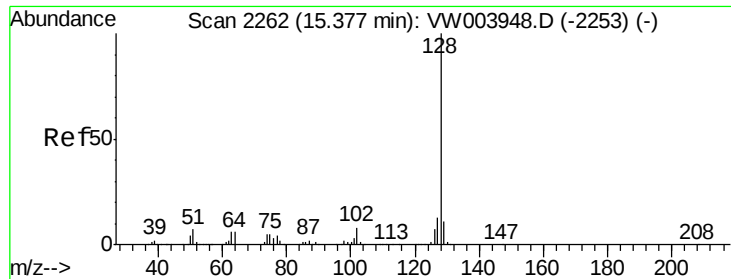
Ion Ratio Lower Upper

75 100

53 0.0 77.6 116.4#

89 0.0 36.0 54.0#

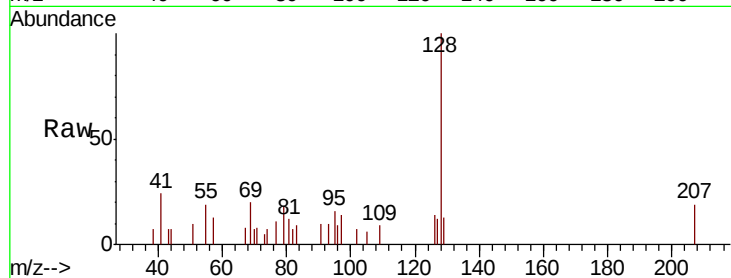




#95
 Naphthalene
 Concen: 2.297 ug/l
 RT: 15.37 min Scan# 2261
 Delta R.T. -0.01 min
 Lab File: VW004336.D
 Acq: 30 Jul 2018 02:52

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.4	15.6
129	9.1	8.6	13.0



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

