

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW030519\
 Data File : VW009004.D
 Acq On : 05 Mar 2019 18:37
 Operator : SY/VA
 Sample : K1688-09RE
 Misc : 6.50G/5ML/MSVOA W/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Mar 06 06:52:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W022119S.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 22 00:38:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	321245	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	500226	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	452156	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	221019	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	182017	60.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.82%	
35) Dibromofluoromethane	7.88	113	152494	50.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.54%	
50) Toluene-d8	10.32	98	604682	52.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.30%	
62) 4-Bromofluorobenzene	12.62	95	212690	46.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.70%	

Target Compounds

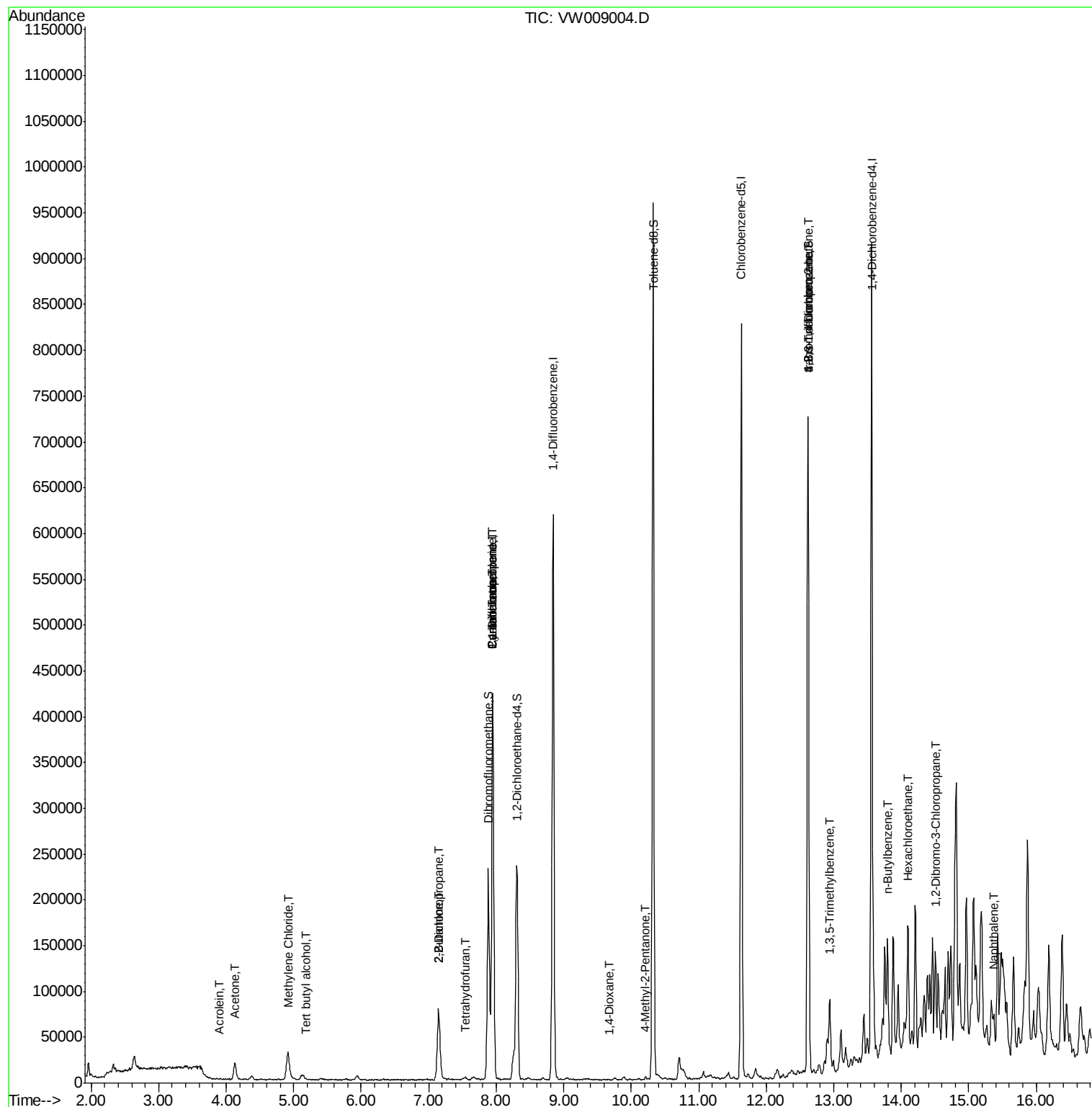
						Qvalue
11) Tert butyl alcohol	5.18	59	860	3.206	ug/l #	83
13) Acrolein	3.89	56	113	20.148	ug/l #	75
16) Acetone	4.12	43	30411	43.545	ug/l	92
20) Methylene Chloride	4.92	84	21252	1.190	ug/l	95
25) 2-Butanone	7.15	43	4897	5.015	ug/l #	85
26) 2,2-Dichloropropane	7.15	77	5395	1.059	ug/l #	55
29) Tetrahydrofuran	7.54	42	2172	3.491	ug/l	95
31) Cyclohexane	7.95	56	7331	1.291	ug/l #	54
36) 1,1-Dichloropropene	7.95	75	25072	5.149	ug/l #	51
38) Carbon Tetrachloride	7.95	117	30683	5.975	ug/l #	16
49) 1,4-Dioxane	9.68	88	35	1.196	ug/l #	1
51) 4-Methyl-2-Pentanone	10.21	43	2368	1.032	ug/l	95
76) 1,2,3-Trichloropropane	12.62	75	112271	61.525	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.94	105	20200	1.534	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.62	75	112271	149.572	ug/l #	6
89) n-Butylbenzene	13.80	91	14784	1.052	ug/l #	1
90) Hexachloroethane	14.10	117	6564	2.672	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.51	75	458	1.023	ug/l #	8
95) Naphthalene	15.38	128	10801	1.330	ug/l #	85

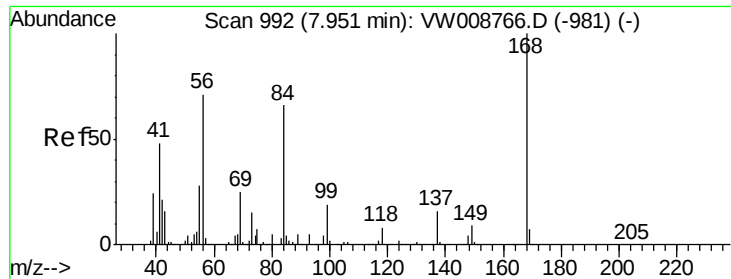
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Feb 22 00:38:32 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW009004.D

Acq: 05 Mar 2019 18:37

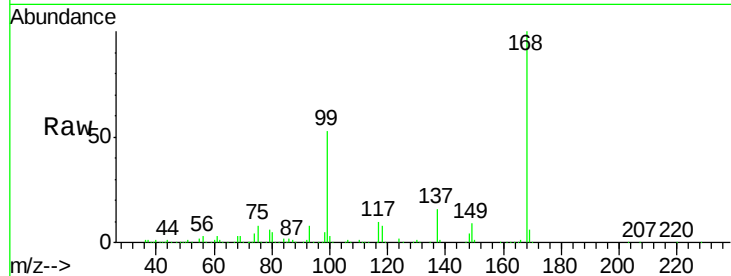
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:168 Resp: 321245

Ion Ratio Lower Upper

168 100

99 52.7 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

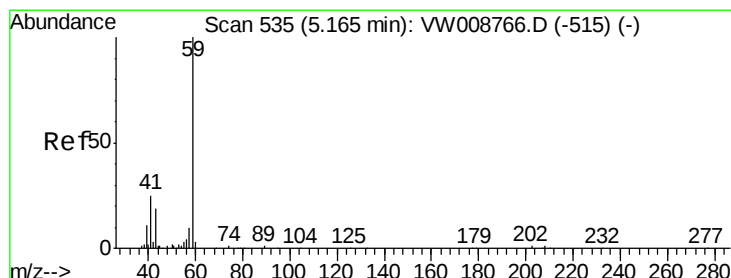
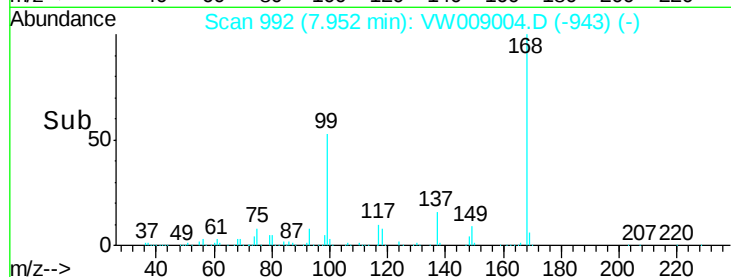
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 3.206 ug/l

RT: 5.18 min Scan# 538

Delta R.T. 0.02 min

Lab File: VW009004.D

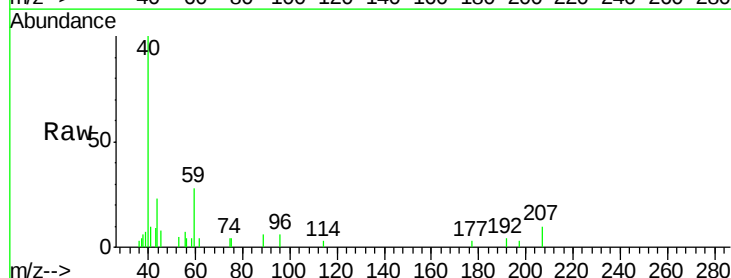
Acq: 05 Mar 2019 18:37

Tgt Ion: 59 Resp: 860

Ion Ratio Lower Upper

59 100

57 5.2 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

1200

1000

800

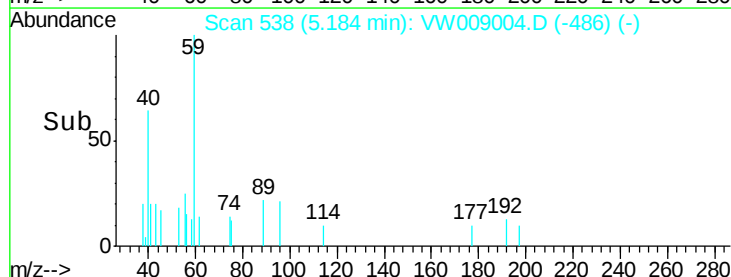
600

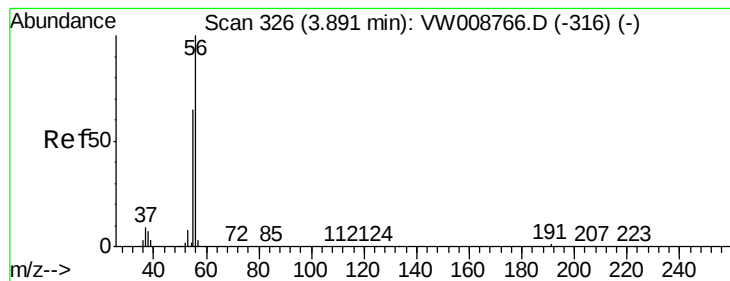
400

200

0

Time-->





#13

Acrolein

Concen: 20.148 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.00 min

Lab File: VW009004.D

Acq: 05 Mar 2019 18:37

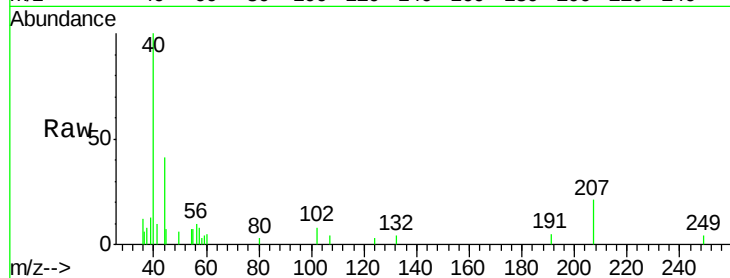
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 56 Resp: 113

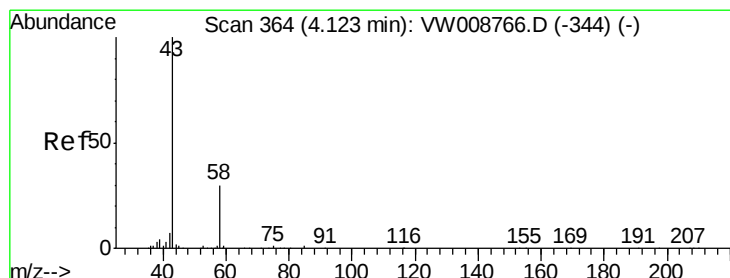
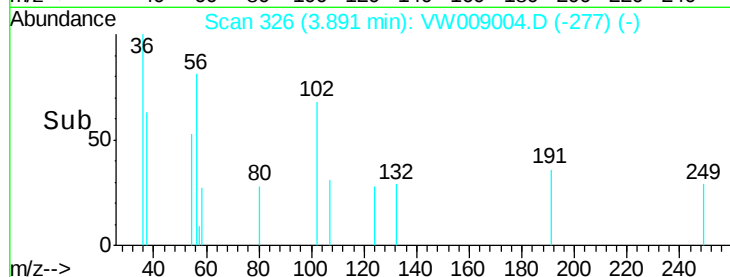
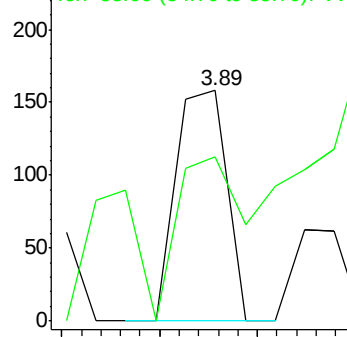
Ion Ratio Lower Upper

56 100

55 92.0 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 55.00 (54.70 to 55.70): VW



#16

Acetone

Concen: 43.545 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.00 min

Lab File: VW009004.D

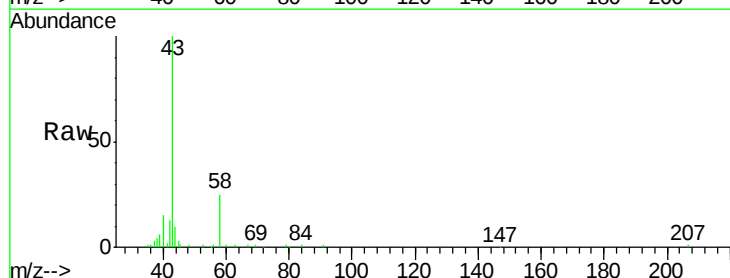
Acq: 05 Mar 2019 18:37

Tgt Ion: 43 Resp: 30411

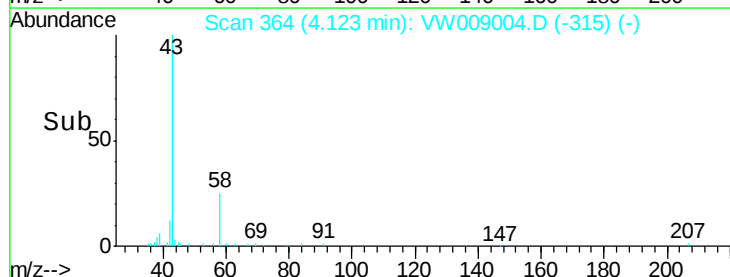
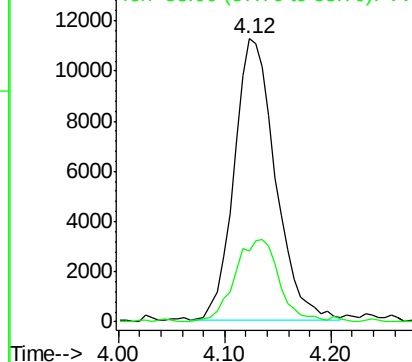
Ion Ratio Lower Upper

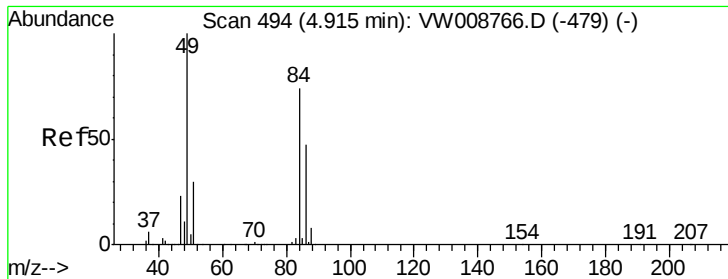
43 100

58 25.2 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW





#20

Methvlene Chloride

Concen: 1.190 ug/l

RT: 4.92 min Scan# 494

Delta R.T. 0.00 min

Lab File: VW009004.D

Acq: 05 Mar 2019 18:37

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 84 Resp: 21252

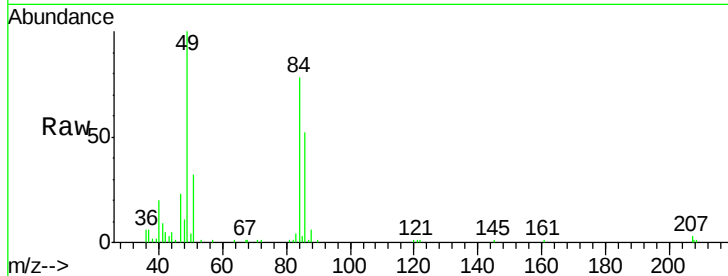
Ion Ratio Lower Upper

84 100

49 127.8 108.2 162.2

51 39.6 32.7 49.1

86 65.9 50.3 75.5

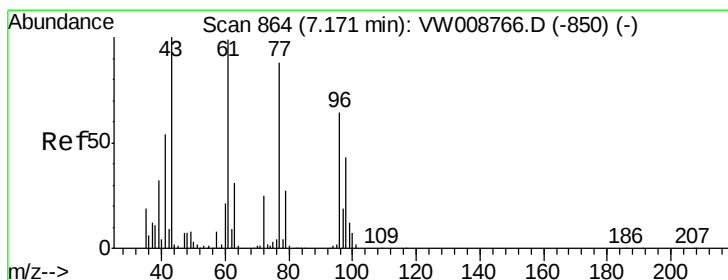
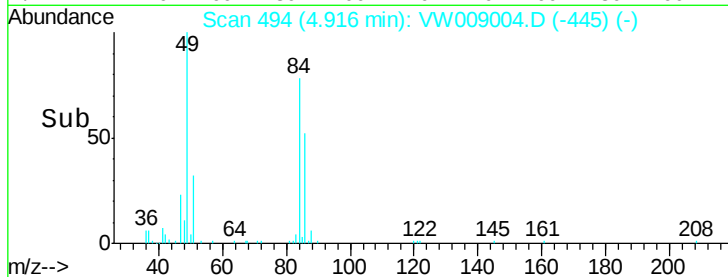
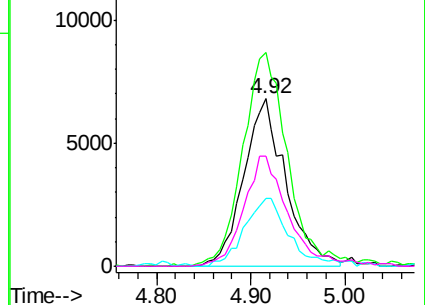


Abundance Ion 83.90 (83.60 to 84.60): VW

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: 5.015 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW009004.D

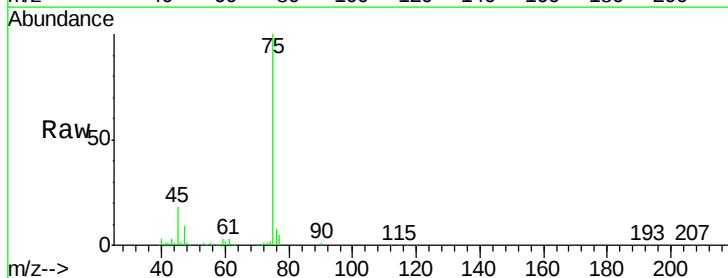
Acq: 05 Mar 2019 18:37

Tgt Ion: 43 Resp: 4897

Ion Ratio Lower Upper

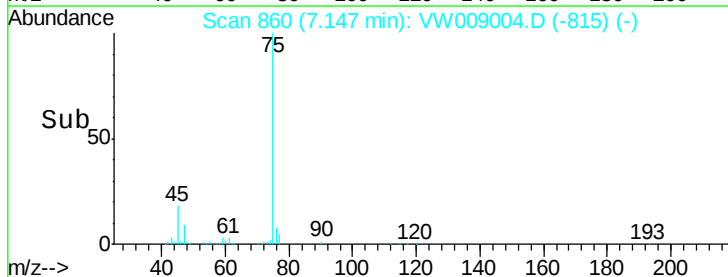
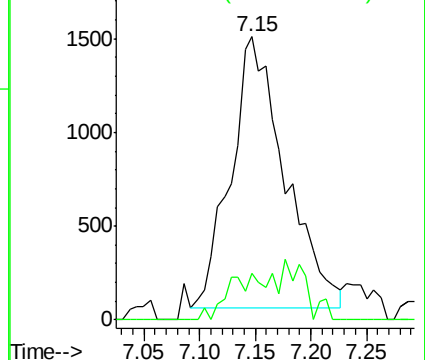
43 100

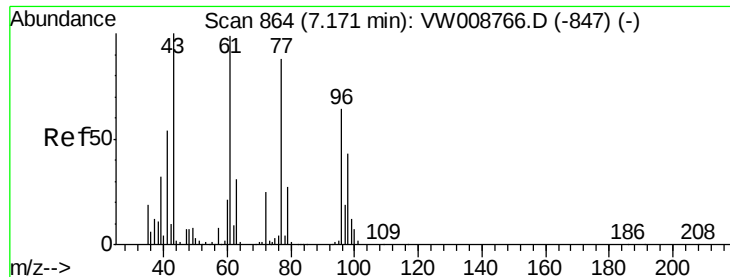
72 17.2 19.7 29.5#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW





#26

2,2-Dichloropropane

Concen: 1.059 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW009004.D

Acq: 05 Mar 2019 18:37

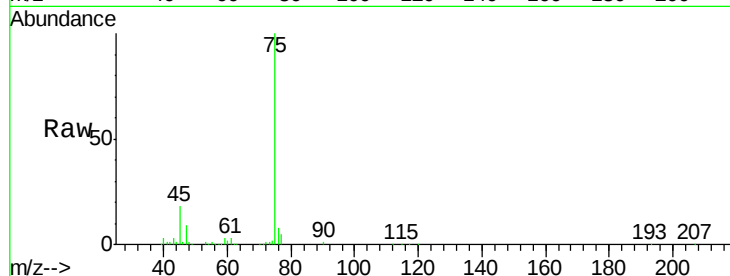
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 77 Resp: 5395

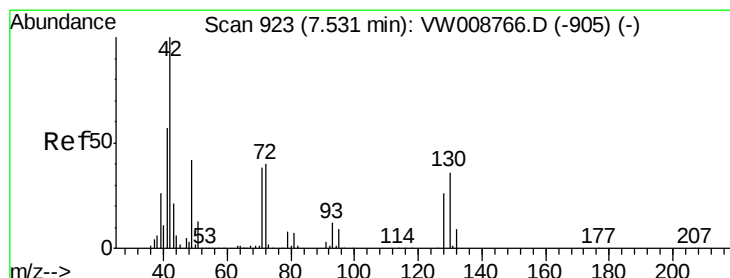
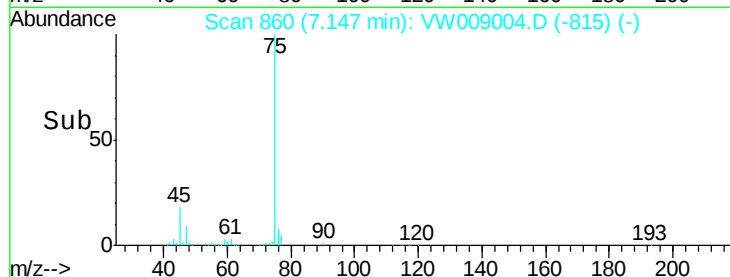
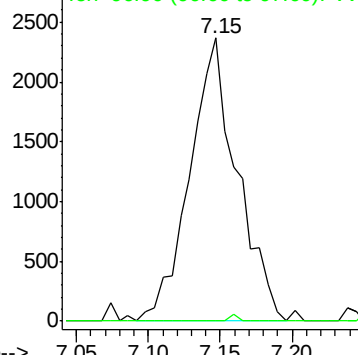
Ion Ratio Lower Upper

77 100

97 0.4 11.0 33.0#



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



#29

Tetrahydrofuran

Concen: 3.491 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW009004.D

Acq: 05 Mar 2019 18:37

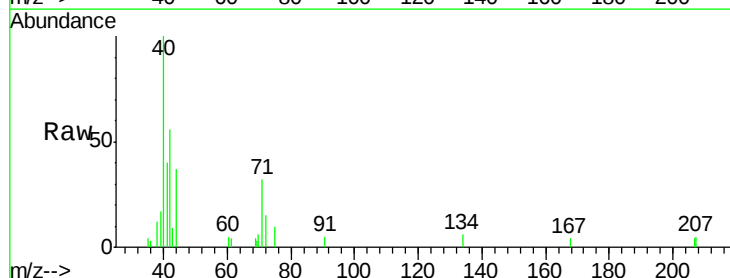
Tgt Ion: 42 Resp: 2172

Ion Ratio Lower Upper

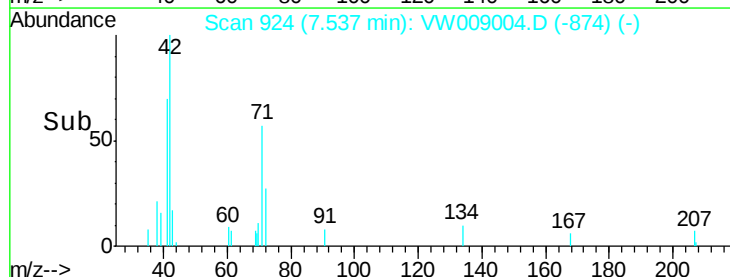
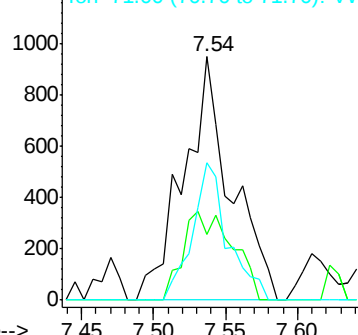
42 100

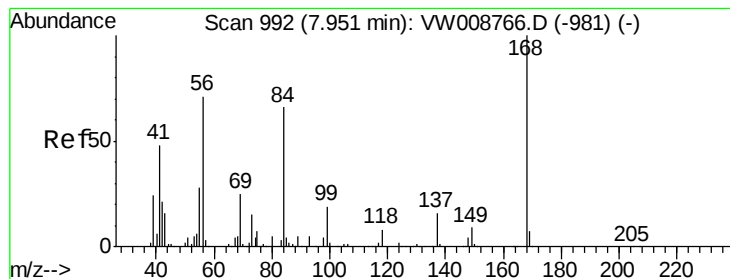
72 37.9 32.7 49.1

71 41.8 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





#31

Cyclohexane

Concen: 1.291 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

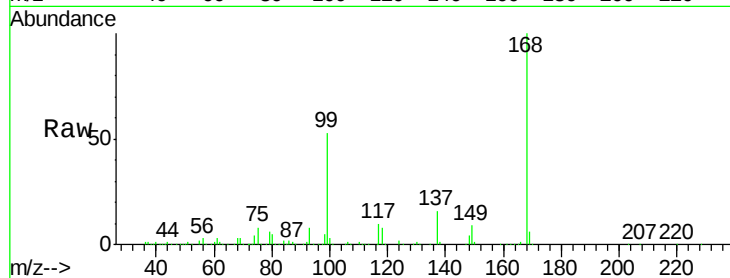
Lab File: VW009004.D

Acq: 05 Mar 2019 18:37

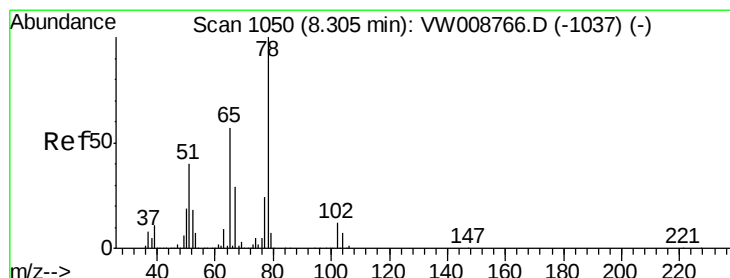
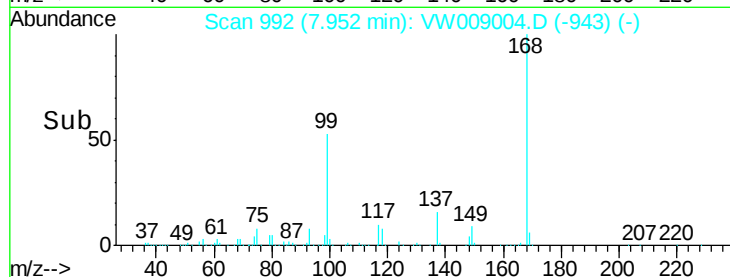
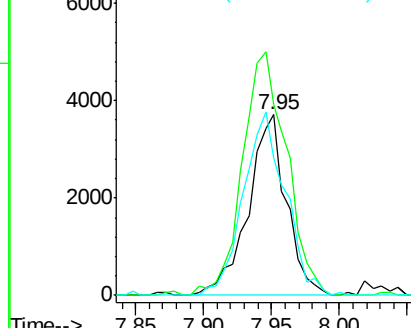
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 56 Resp: 7331

Ion	Ratio	Lower	Upper
56	100		
69	105.9	28.2	42.4#
84	75.8	74.1	111.1



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: 60.411 ug/l

RT: 8.31 min Scan# 1050

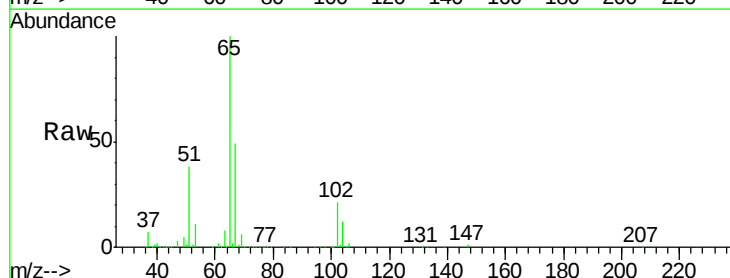
Delta R.T. 0.00 min

Lab File: VW009004.D

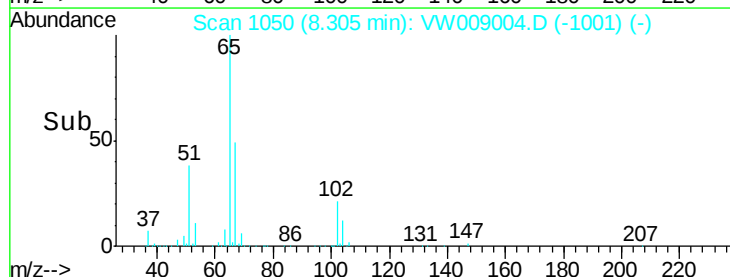
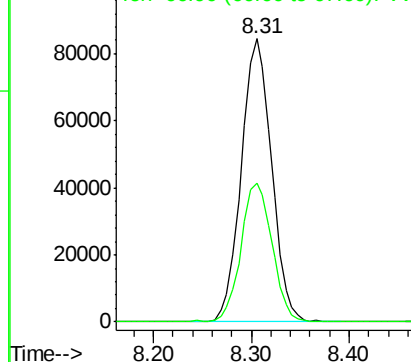
Acq: 05 Mar 2019 18:37

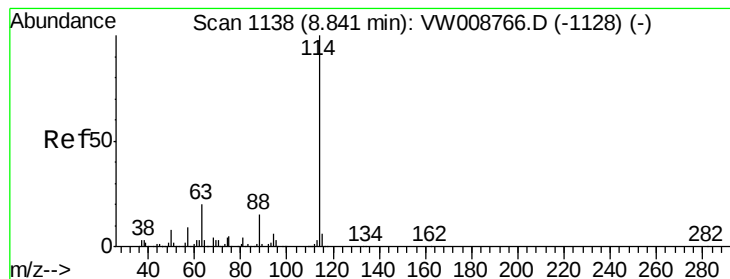
Tgt Ion: 65 Resp: 182017

Ion	Ratio	Lower	Upper
65	100		
67	50.4	0.0	101.4



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW009004.D

Acq: 05 Mar 2019 18:37

Instrument :

MSVOA_W

ClientSampleId :

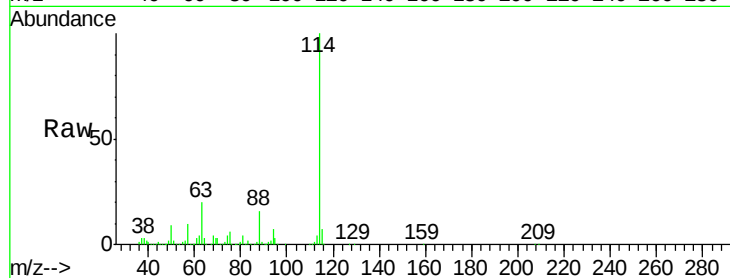
Tot Ion:114 Resp: 500226

Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.8

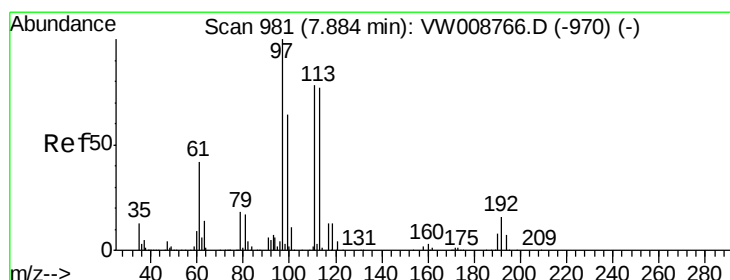
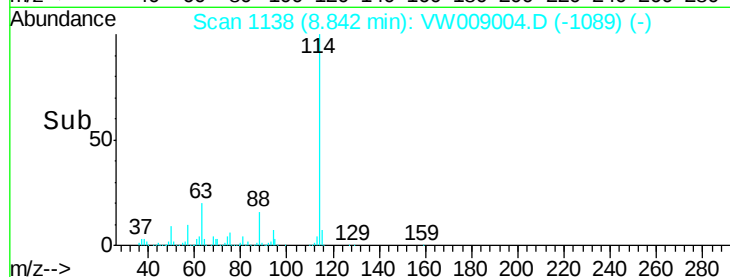
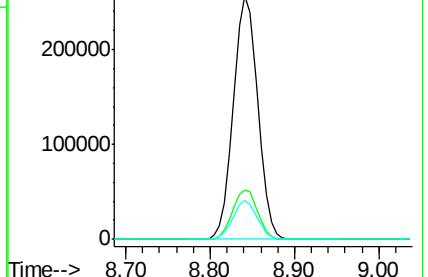
88 15.9 0.0 30.4



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



#35

Dibromofluoromethane

Concen: 50.774 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW009004.D

Acq: 05 Mar 2019 18:37

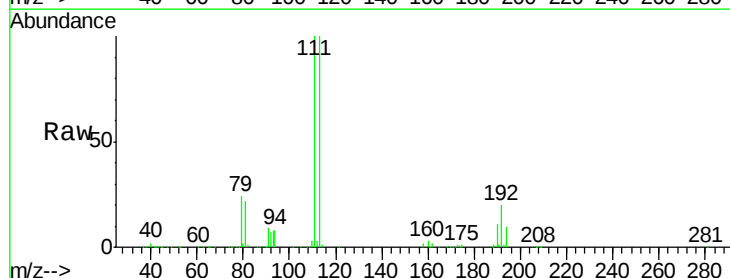
Tgt Ion:113 Resp: 152494

Ion Ratio Lower Upper

113 100

111 102.5 81.9 122.9

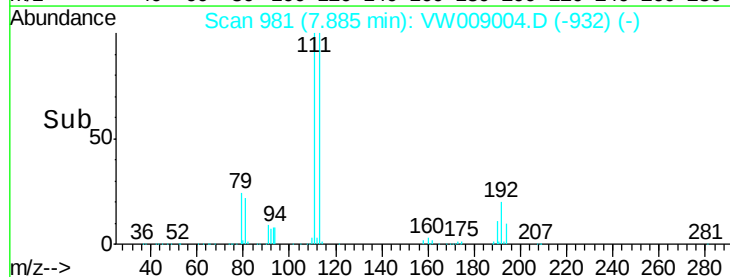
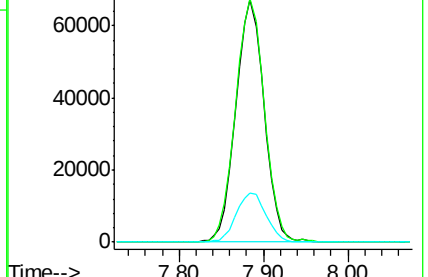
192 21.3 17.1 25.7

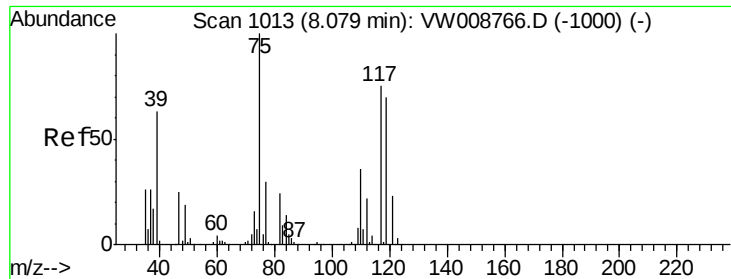


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.149 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW009004.D

Acq: 05 Mar 2019 18:37

Instrument :

MSVOA_W

ClientSampleId :

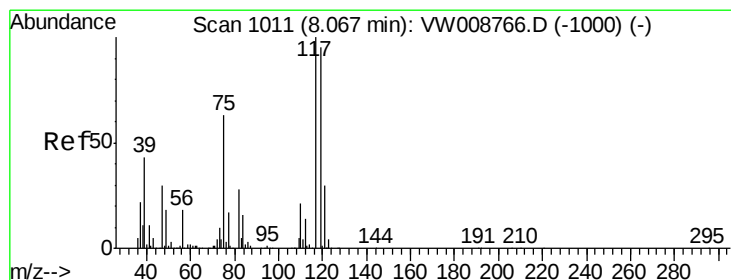
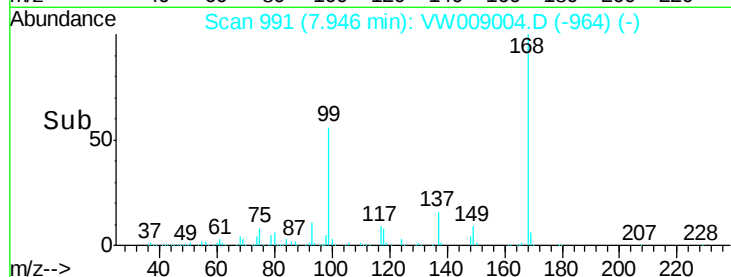
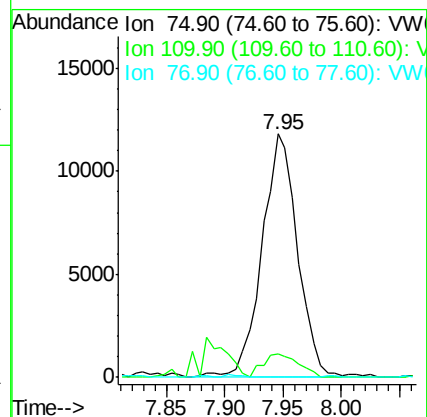
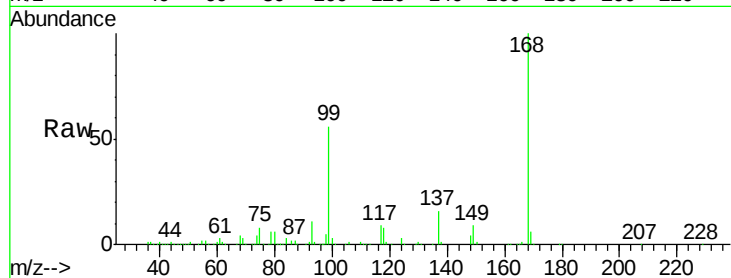
Tot Ion: 75 Resp: 25072

Ion Ratio Lower Upper

75 100

110 9.8 17.5 52.6#

77 0.0 24.5 36.7#



#38

Carbon Tetrachloride

Concen: 5.975 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW009004.D

Acq: 05 Mar 2019 18:37

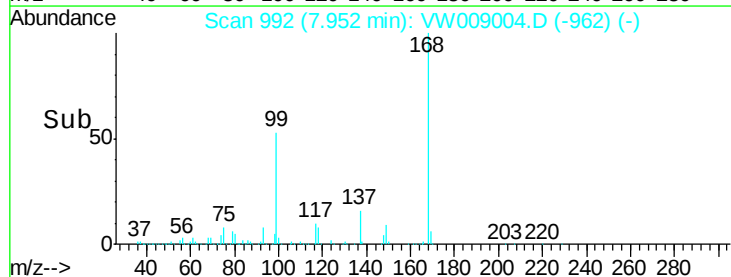
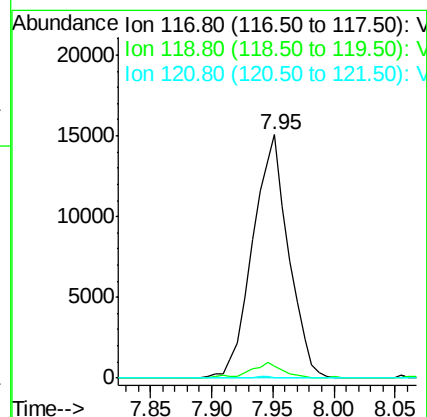
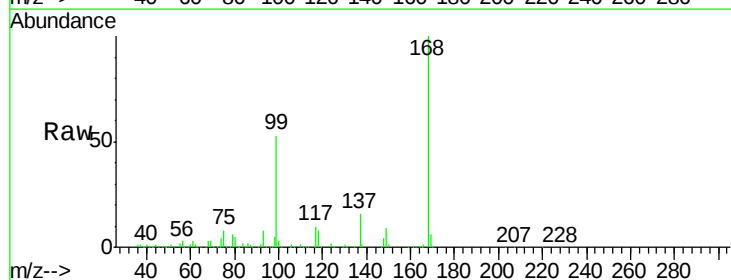
Tgt Ion: 117 Resp: 30683

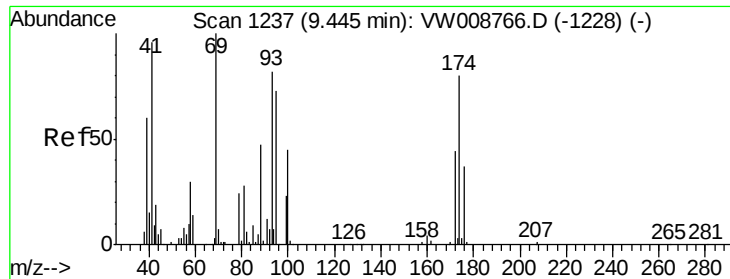
Ion Ratio Lower Upper

117 100

119 4.8 76.1 114.1#

121 0.0 24.0 36.0#

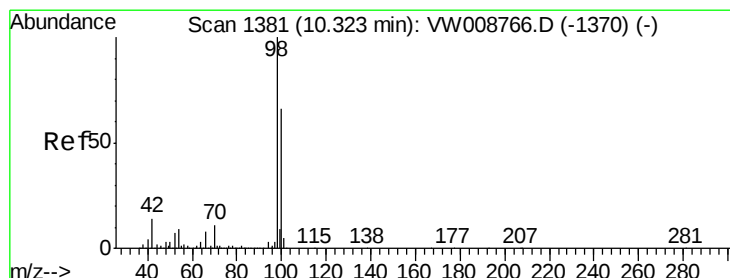
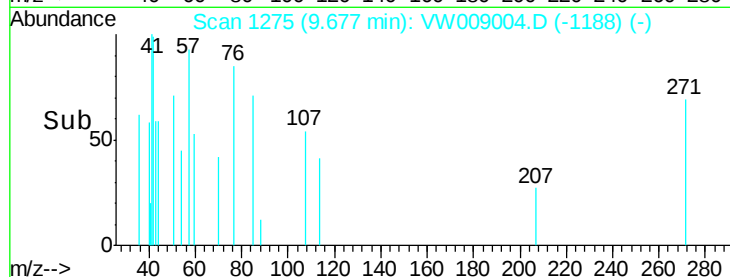
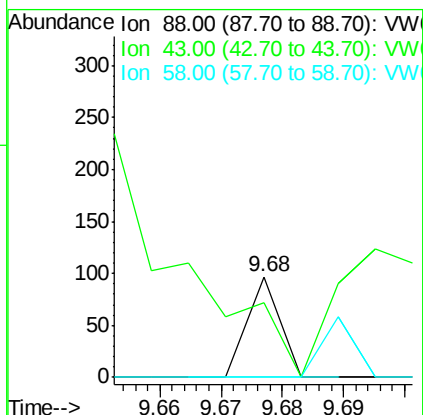
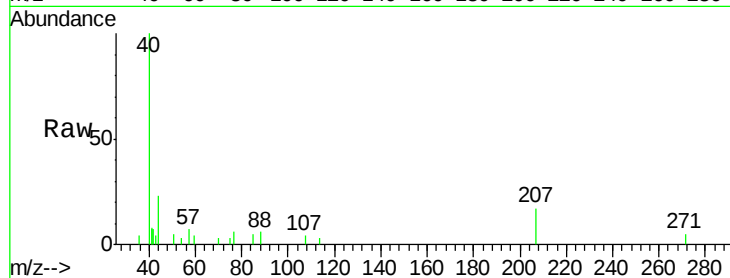




#49
1,4-Dioxane
Concen: 1.196 ug/l
RT: 9.68 min Scan# 1275
Delta R.T. 0.23 min
Lab File: VW009004.D
Acq: 05 Mar 2019 18:37

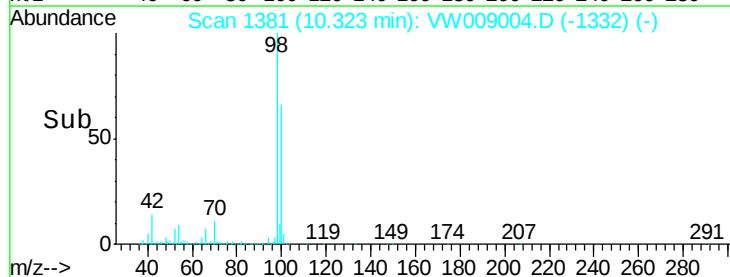
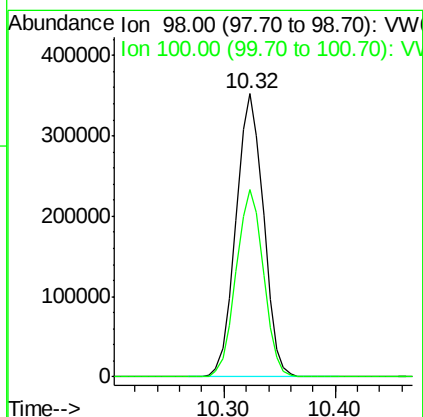
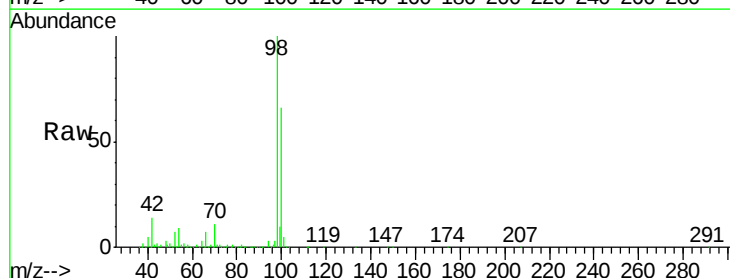
Instrument :
MSVOA_W
ClientSampled :

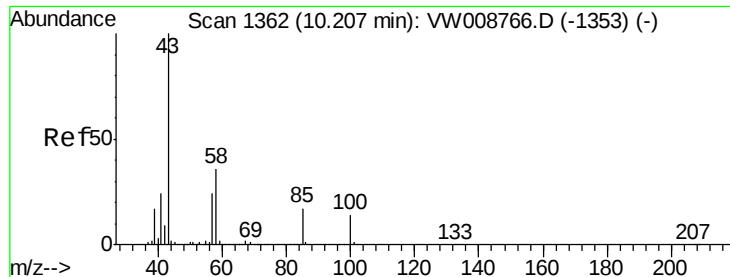
Tot Ion: 88 Resp: 35
Ion Ratio Lower Upper
88 100
43 337.1 29.0 43.4#
58 60.0 52.0 78.0



#50
Toluene-d8
Concen: 52.154 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW009004.D
Acq: 05 Mar 2019 18:37

Tgt Ion: 98 Resp: 604682
Ion Ratio Lower Upper
98 100
100 65.7 52.4 78.6





#51

4-Methyl-2-Pentanone

Concen: 1.032 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW009004.D

Acq: 05 Mar 2019 18:37

Instrument :

MSVOA_W

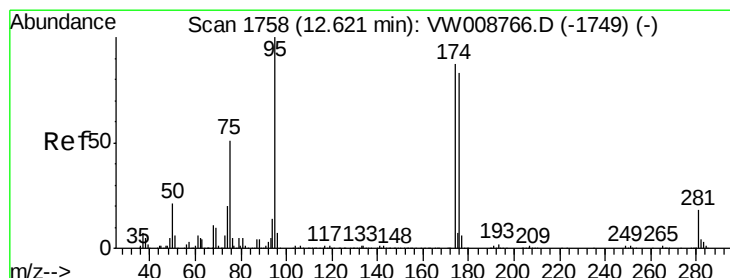
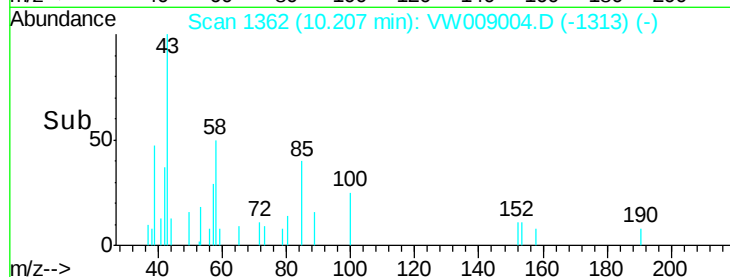
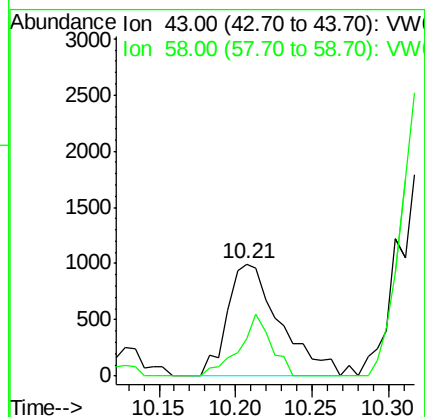
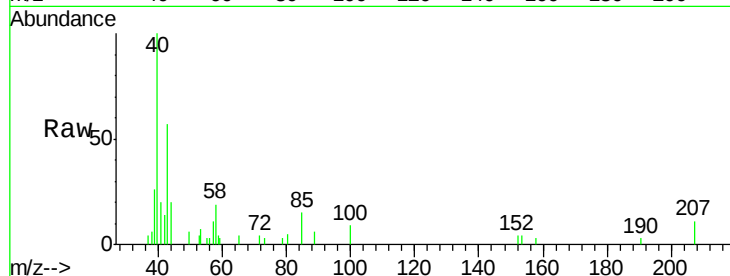
ClientSampled :

Tot Ion: 43 Resp: 2368

Ion Ratio Lower Upper

43 100

58 33.4 29.1 43.7



#62

4-Bromofluorobenzene

Concen: 46.852 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW009004.D

Acq: 05 Mar 2019 18:37

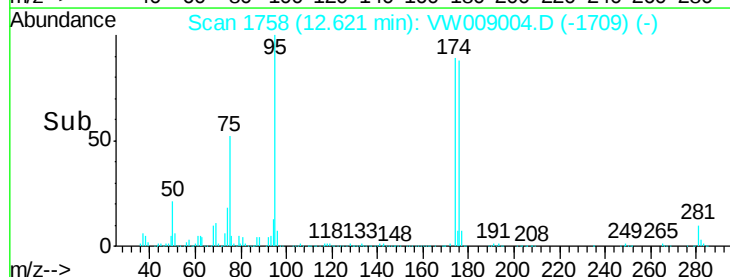
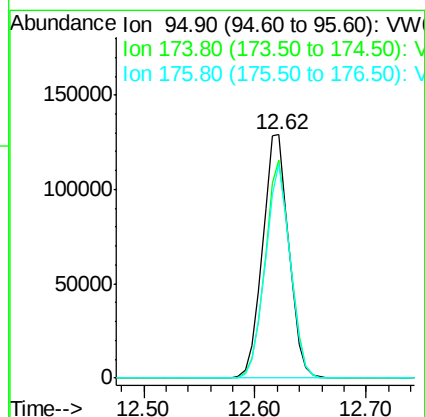
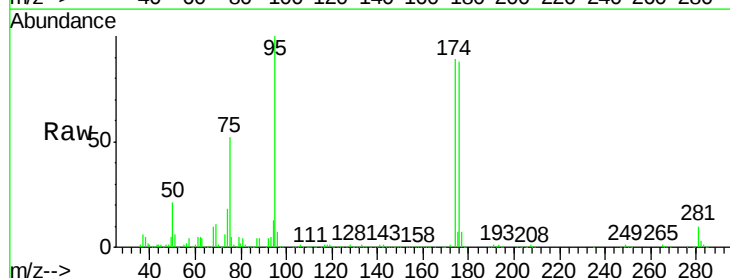
Tgt Ion: 95 Resp: 212690

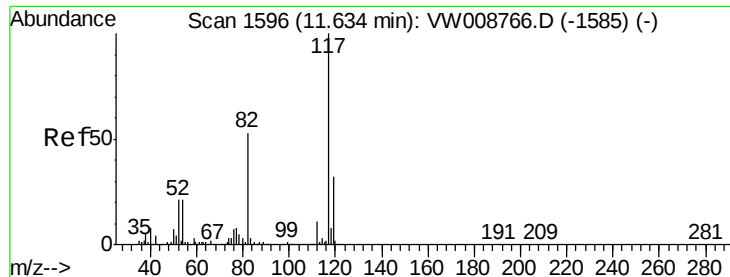
Ion Ratio Lower Upper

95 100

174 85.3 0.0 169.2

176 83.5 0.0 163.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW009004.D

Acq: 05 Mar 2019 18:37

Instrument :

MSVOA_W

ClientSampleId :

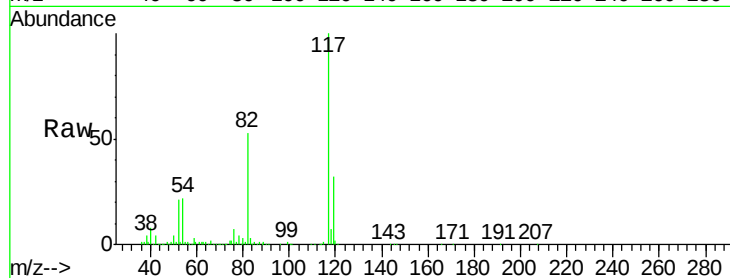
Tot Ion:117 Resp: 452156

Ion Ratio Lower Upper

117 100

82 53.4 42.2 63.4

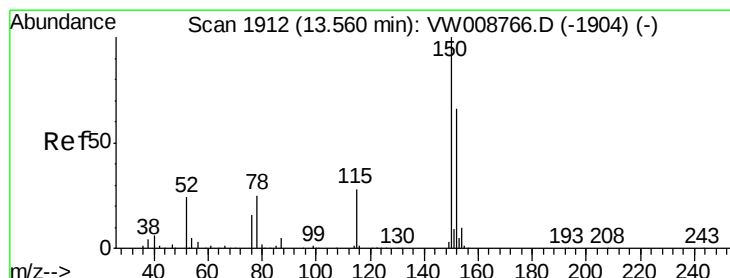
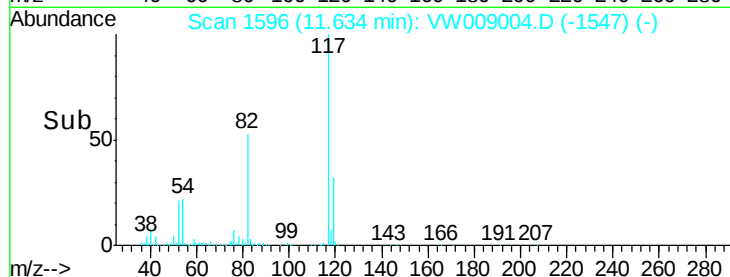
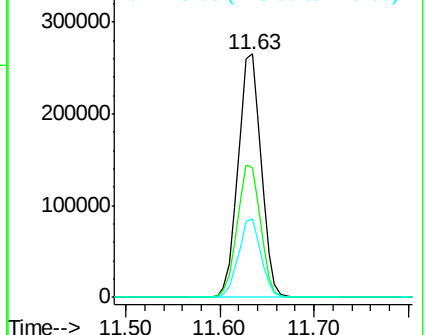
119 32.4 25.9 38.9



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW009004.D

Acq: 05 Mar 2019 18:37

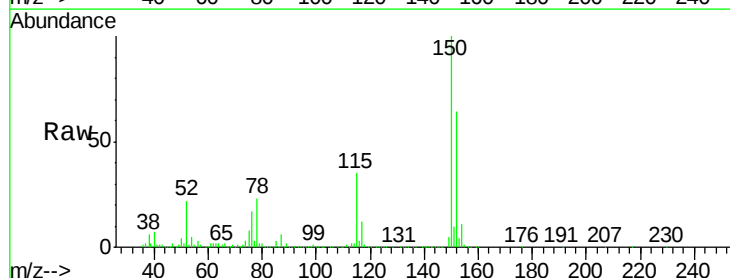
Tgt Ion:152 Resp: 221019

Ion Ratio Lower Upper

152 100

115 57.8 28.6 85.8

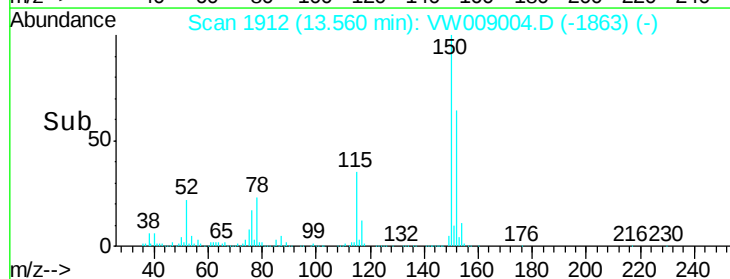
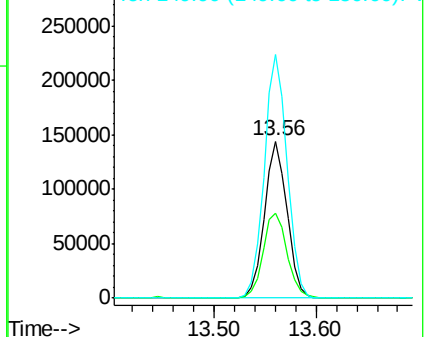
150 156.9 0.0 348.0

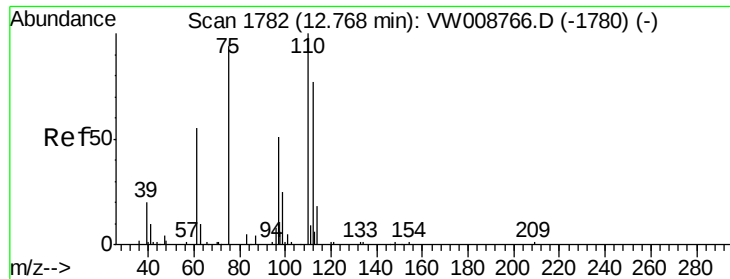


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



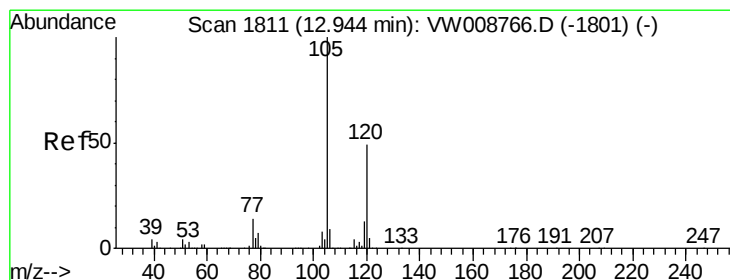
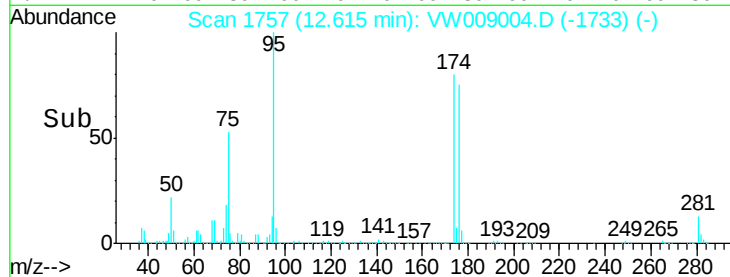
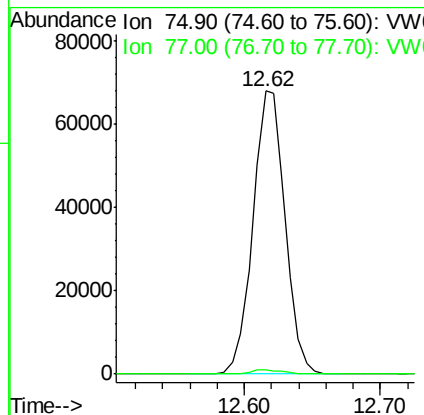
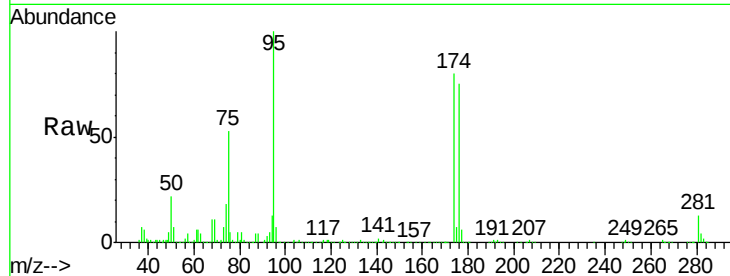


#76

1,2,3-Trichloropropane
Concen: 61.525 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.15 min
Lab File: VW009004.D
Acq: 05 Mar 2019 18:37

Instrument :
MSVOA_W
ClientSampleId :

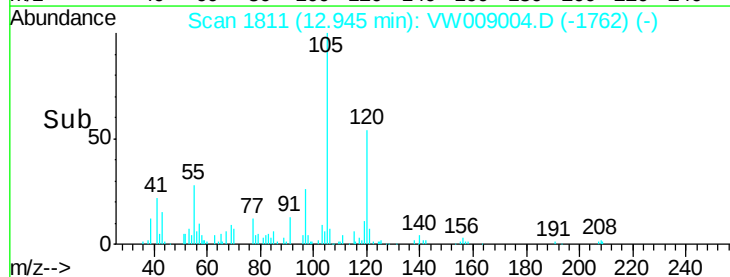
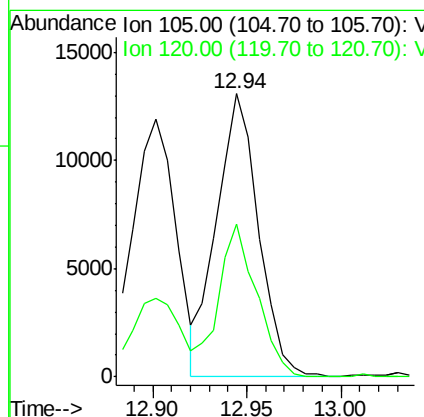
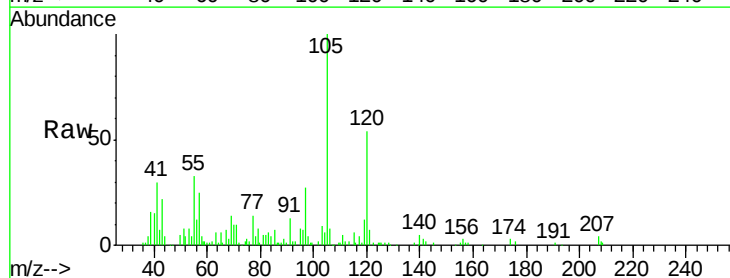
Tot Ion: 75 Resp: 112271
Ion Ratio Lower Upper
75 100
77 1.8 0.0 0.0#

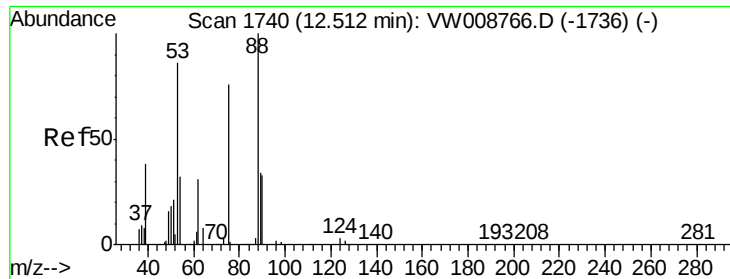


#80

1,3,5-Trimethylbenzene
Concen: 1.534 ug/l
RT: 12.94 min Scan# 1811
Delta R.T. 0.00 min
Lab File: VW009004.D
Acq: 05 Mar 2019 18:37

Tgt Ion: 105 Resp: 20200
Ion Ratio Lower Upper
105 100
120 49.6 24.8 74.4

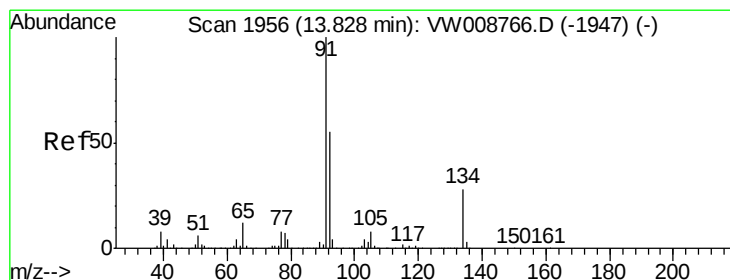
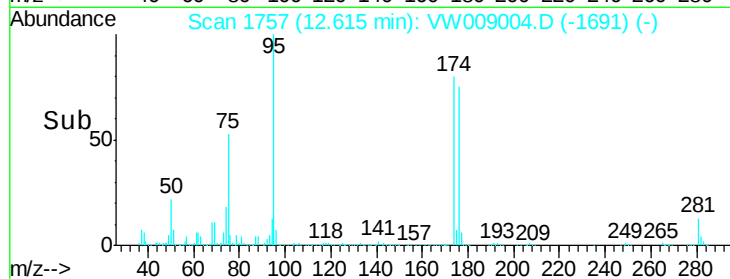
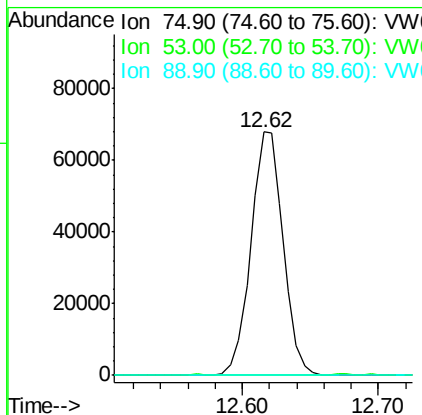
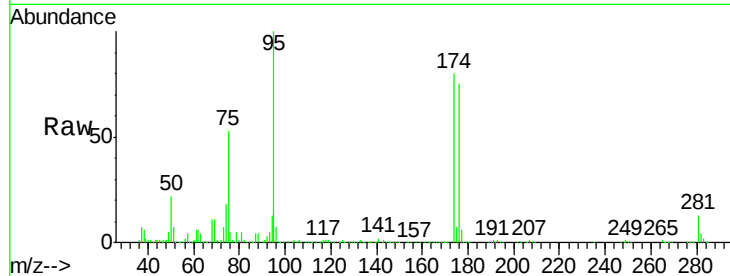




#81
trans-1,4-Dichloro-2-butene
Concen: 149.572 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.10 min
Lab File: VW009004.D
Acq: 05 Mar 2019 18:37

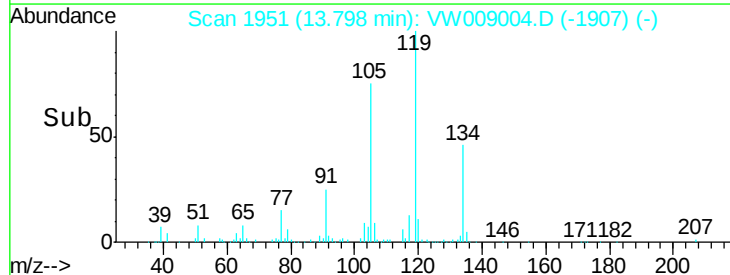
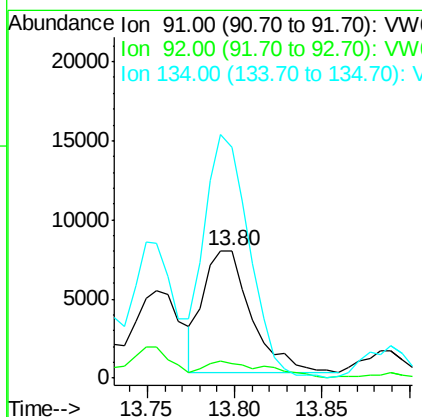
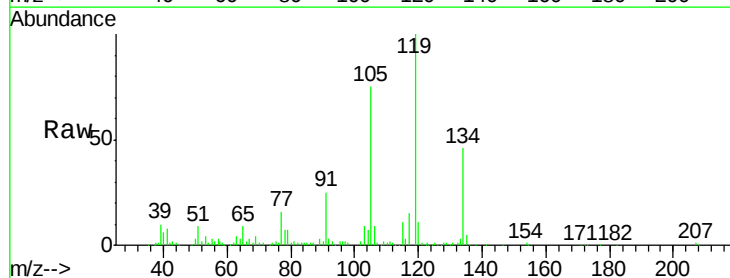
Instrument :
MSVOA_W
ClientSampleId :

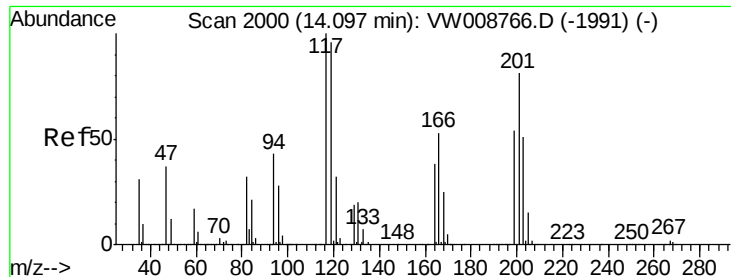
Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	88.2	132.2#
89	0.1	39.5	59.3#



#89
n-Butylbenzene
Concen: 1.052 ug/l
RT: 13.80 min Scan# 1951
Delta R.T. -0.03 min
Lab File: VW009004.D
Acq: 05 Mar 2019 18:37

Tgt Ion	Ratio	Lower	Upper
91	100		
92	16.7	26.8	80.4#
134	193.2	13.5	40.4#





#90

Hexachloroethane

Concen: 2.672 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. 0.01 min

Lab File: VW009004.D

Acq: 05 Mar 2019 18:37

Instrument :

MSVOA_W

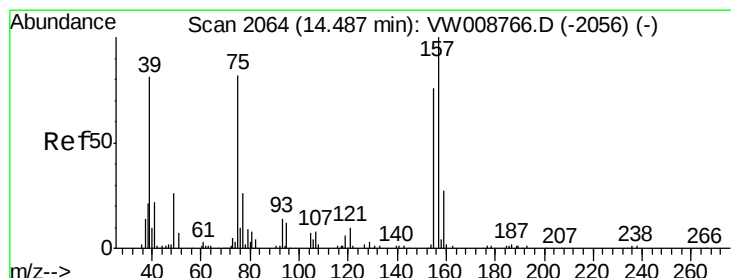
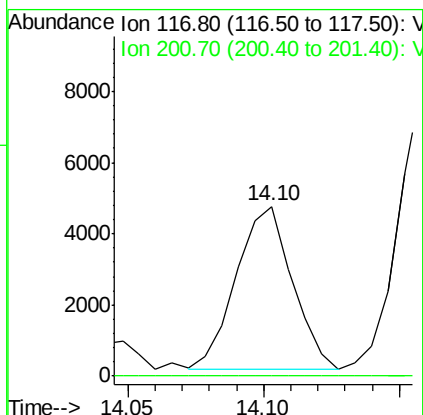
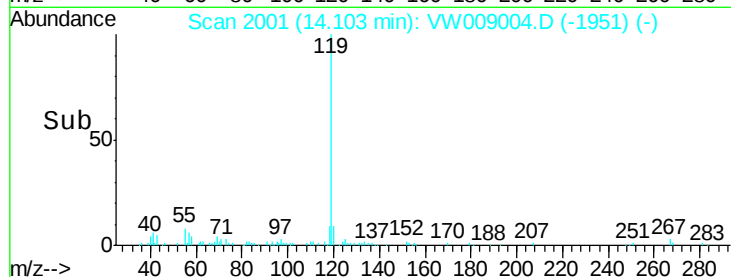
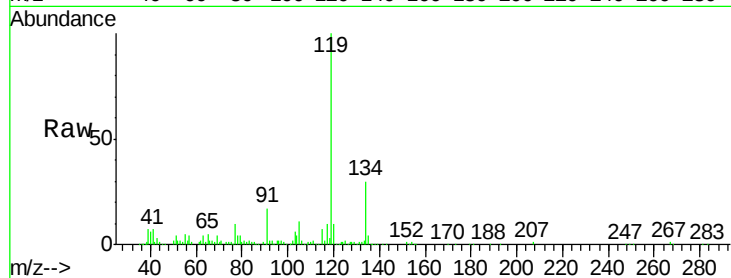
ClientSampled :

Tot Ion:117 Resp: 6564

Ion Ratio Lower Upper

117 100

201 0.0 40.3 120.8#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.023 ug/l

RT: 14.51 min Scan# 2067

Delta R.T. 0.02 min

Lab File: VW009004.D

Acq: 05 Mar 2019 18:37

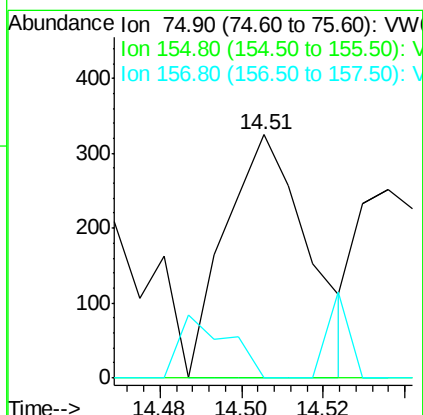
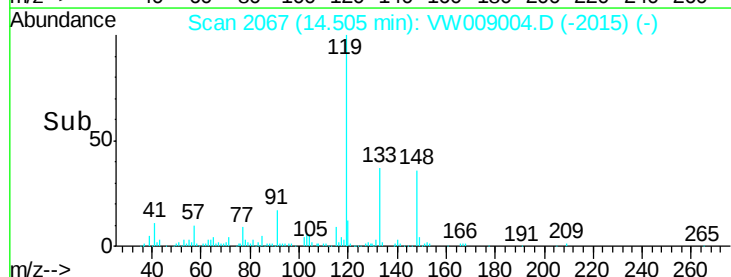
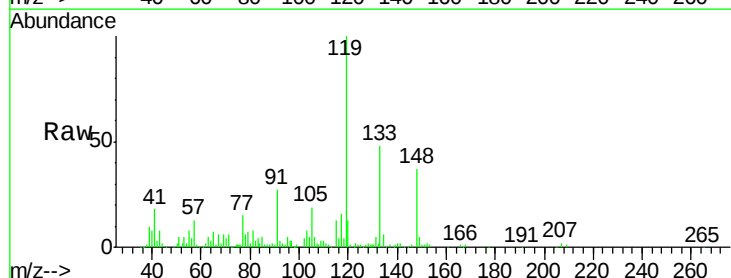
Tgt Ion: 75 Resp: 458

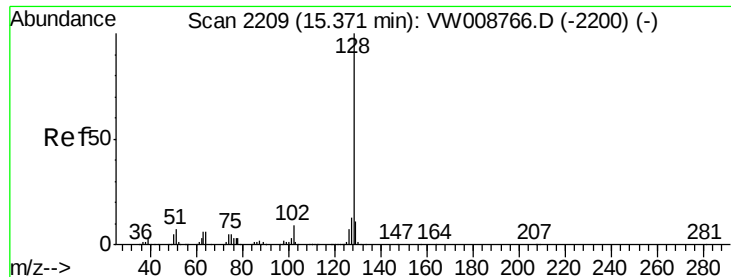
Ion Ratio Lower Upper

75 100

155 0.0 41.8 125.4#

157 15.3 56.6 169.9#

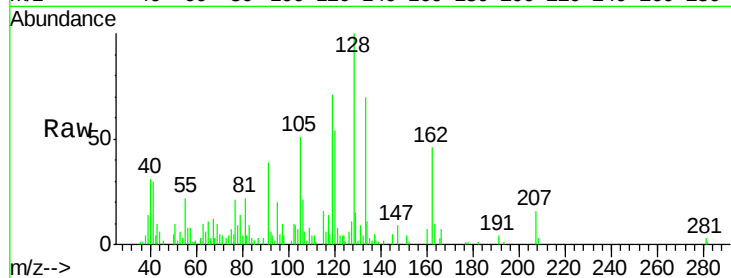




#95
Naphthalene
Concen: 1.330 ug/l
RT: 15.38 min Scan# 2210
Delta R.T. 0.01 min
Lab File: VW009004.D
Acq: 05 Mar 2019 18:37

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion	Ion	Ratio	Lower	Upper
128	100			
127	7.1	10.8	16.2	
129	6.1	8.7	13.1	



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

