

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV121818\
 Data File : VW007610.D
 Acq On : 16 Dec 2018 05:07
 Operator : SY/AP
 Sample : J6378-16
 Misc : 4.10G/5ML/MSVOA W/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 17 00:17:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W121118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 11 02:58:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	24156	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	45635	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	29213	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	9219	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	21655	80.80	ug/l	0.00
Spiked Amount			Recovery	=	161.60%	
35) Dibromofluoromethane	7.88	113	16814	60.87	ug/l	0.00
Spiked Amount			Recovery	=	121.74%	
50) Toluene-d8	10.32	98	39626	38.26	ug/l	0.00
Spiked Amount			Recovery	=	76.52%	
62) 4-Bromofluorobenzene	12.62	95	13756	36.12	ug/l	0.00
Spiked Amount			Recovery	=	72.24%	

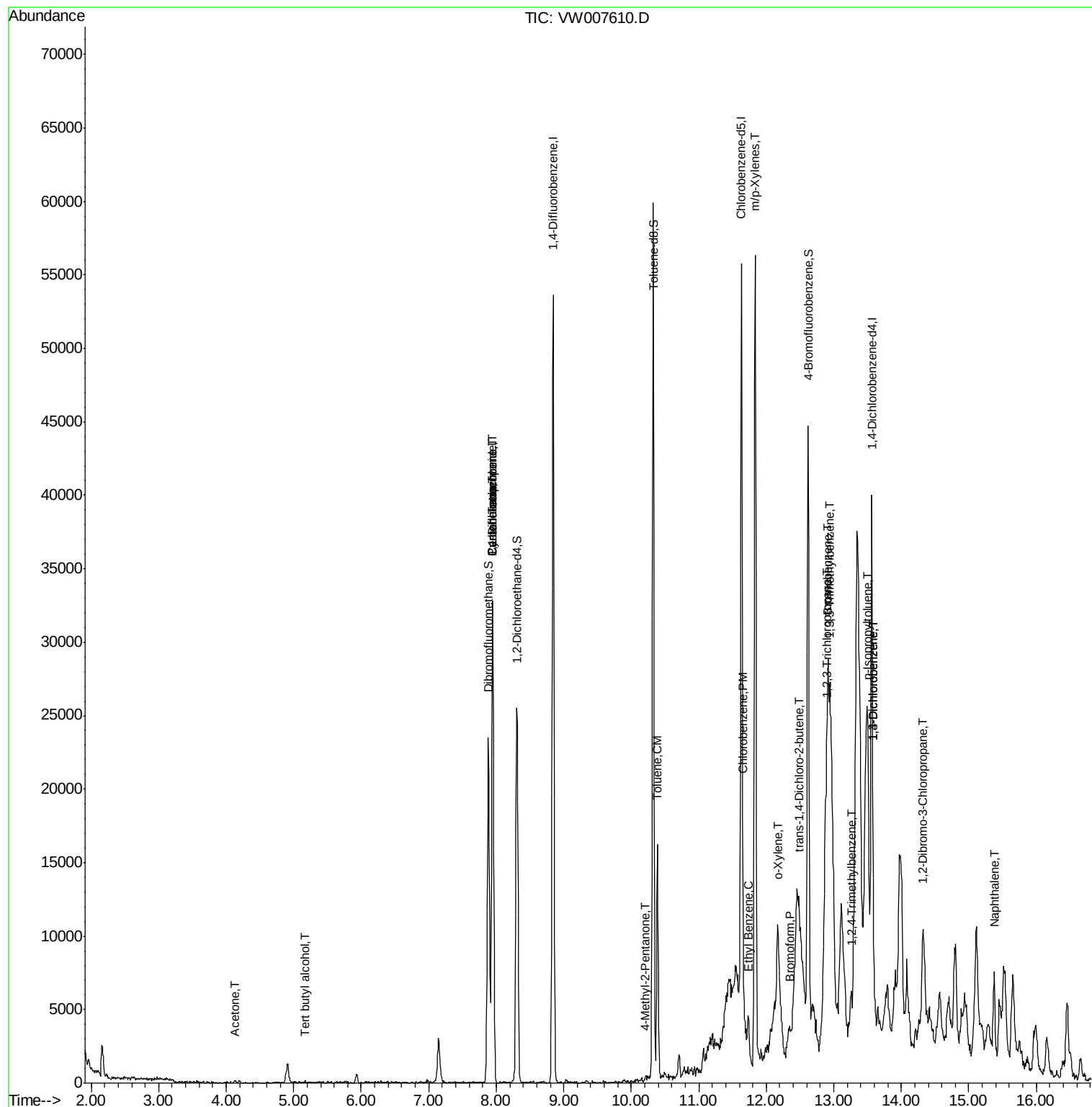
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.17	59	93	5.053	ug/l #	74
16) Acetone	4.13	43	330	7.050	ug/l #	44
20) Methylene Chloride	4.92	84	987	Below Cal		89
31) Cyclohexane	7.95	56	439	1.054	ug/l #	11
36) 1,1-Dichloropropene	7.95	75	1900	4.564	ug/l #	46
38) Carbon Tetrachloride	7.94	117	2687	5.932	ug/l #	13
51) 4-Methyl-2-Pentanone	10.21	43	314	2.173	ug/l #	34
52) Toluene	10.39	92	6880	9.202	ug/l	97
65) Chlorobenzene	11.66	112	1224	2.010	ug/l	95
67) Ethyl Benzene	11.74	91	2039	1.948	ug/l #	83
68) m/p-Xylenes	11.83	106	14488	35.600	ug/l	83
69) o-Xylene	12.17	106	1433	3.770	ug/l	93
71) Bromoform	12.35	173	127	1.157	ug/l #	29
76) 1,2,3-Trichloropropane	12.89	75	405	5.328	ug/l	94
77) Bromobenzene	12.91	156	23744	151.641	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.94	105	758	1.277	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.48	75	557	16.187	ug/l #	33
84) 1,2,4-Trimethylbenzene	13.26	105	2145	3.512	ug/l	87
86) p-Isopropyltoluene	13.51	119	852	1.328	ug/l #	77
87) 1,3-Dichlorobenzene	13.58	146	2271	7.274	ug/l	92
88) 1,4-Dichlorobenzene	13.58	146	2271	7.236	ug/l	89
92) 1,2-Dibromo-3-Chloropropan	14.33	75	78	3.715	ug/l #	1
95) Naphthalene	15.38	128	4785	12.998	ug/l #	94

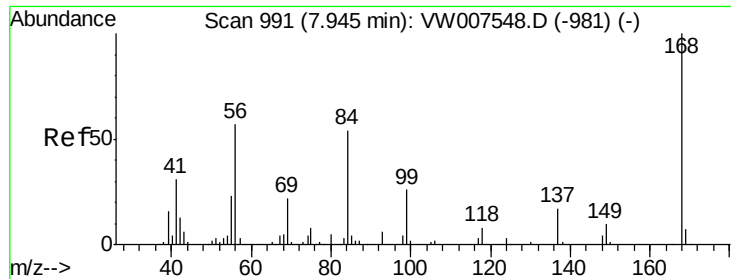
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 17 00:17:08 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W121118S.M
Quant Title : SW846 8260
QLast Update : Tue Dec 11 02:58:16 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW007610.D

Acq: 16 Dec 2018 05:07

Instrument :

MSVOA_W

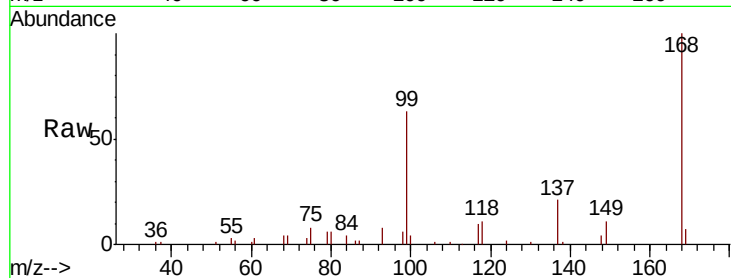
ClientSampleId :

Tot Ion:168 Resp: 24156

Ion Ratio Lower Upper

168 100

99 63.4 48.3 72.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

12000

10000

8000

6000

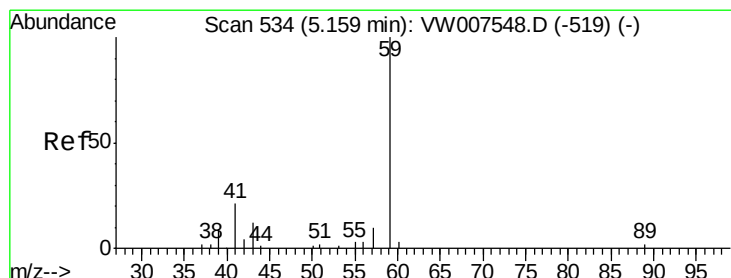
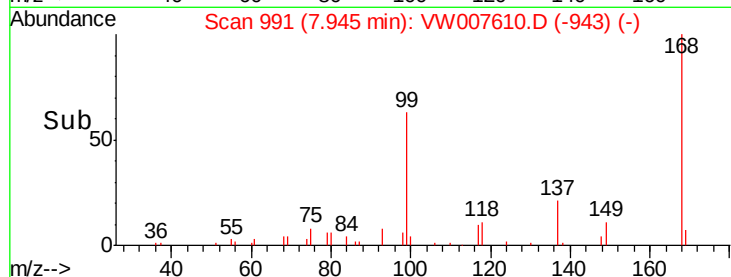
4000

2000

0

Time-->

7.85 7.90 7.95 8.00 8.05



#11

Tert butyl alcohol

Concen: 5.053 ug/l

RT: 5.17 min Scan# 536

Delta R.T. 0.01 min

Lab File: VW007610.D

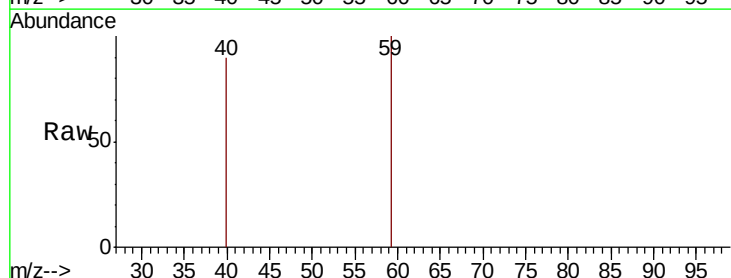
Acq: 16 Dec 2018 05:07

Tgt Ion: 59 Resp: 93

Ion Ratio Lower Upper

59 100

57 0.0 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.17

100

80

60

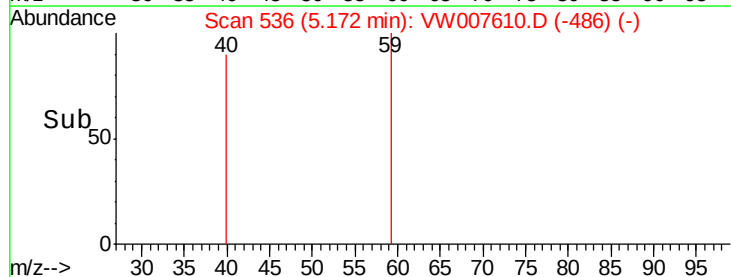
40

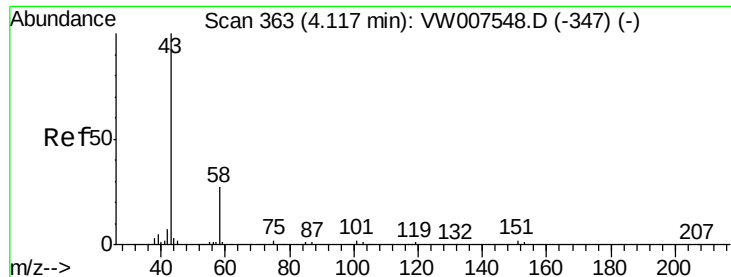
20

0

Time-->

5.15 5.20





#16

Acetone

Concen: 7.050 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW007610.D

Acq: 16 Dec 2018 05:07

Instrument :

MSVOA_W

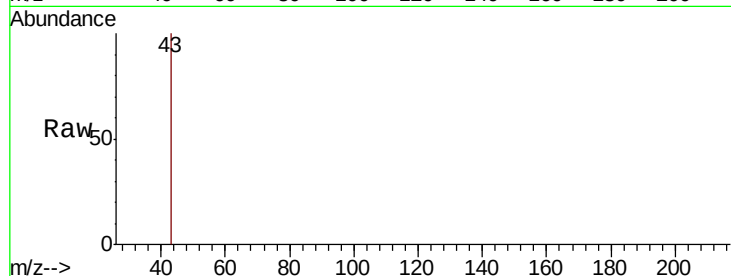
ClientSampleId :

Tot Ion: 43 Resp: 330

Ion Ratio Lower Upper

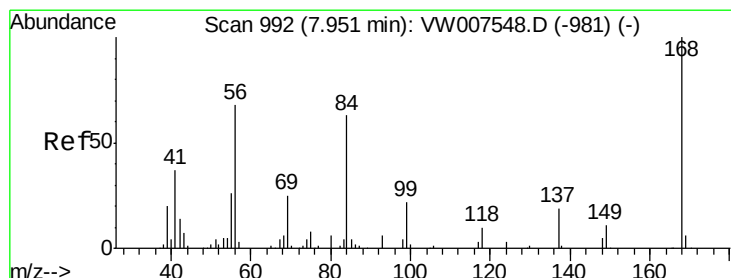
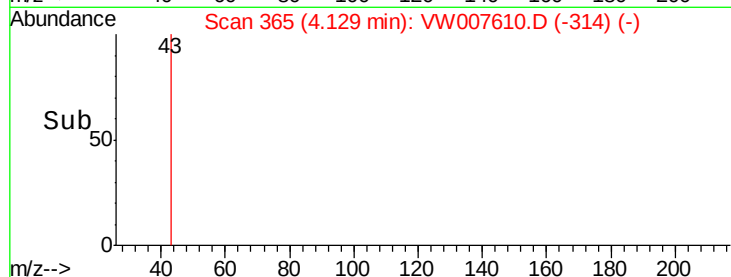
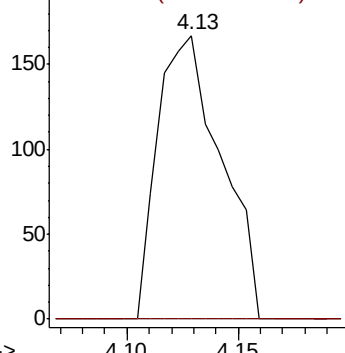
43 100

58 0.0 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#31

Cyclohexane

Concen: 1.054 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW007610.D

Acq: 16 Dec 2018 05:07

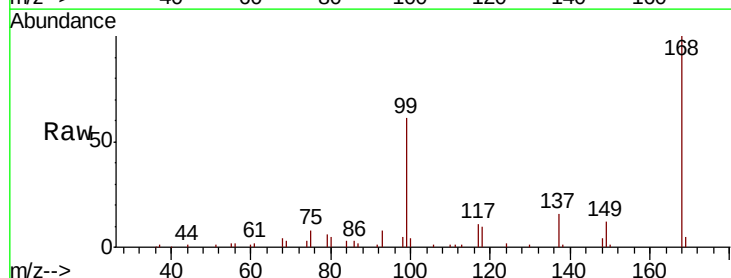
Tgt Ion: 56 Resp: 439

Ion Ratio Lower Upper

56 100

69 156.1 28.9 43.3#

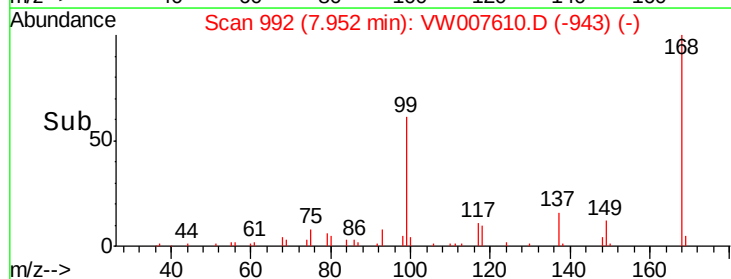
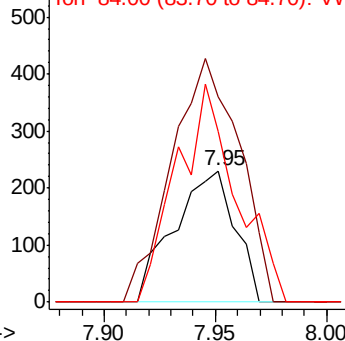
84 130.0 71.8 107.6#

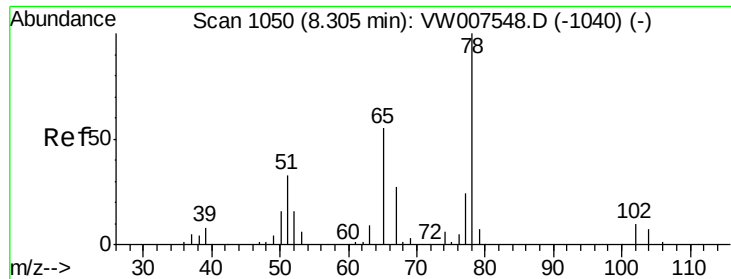


Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW

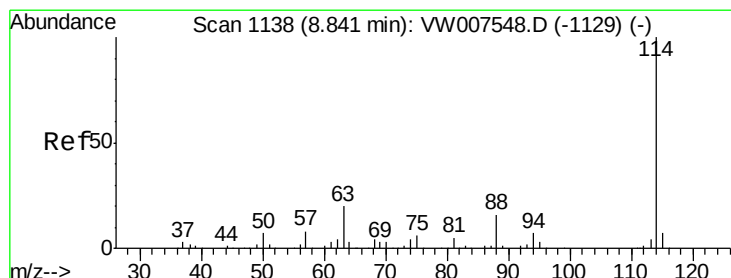
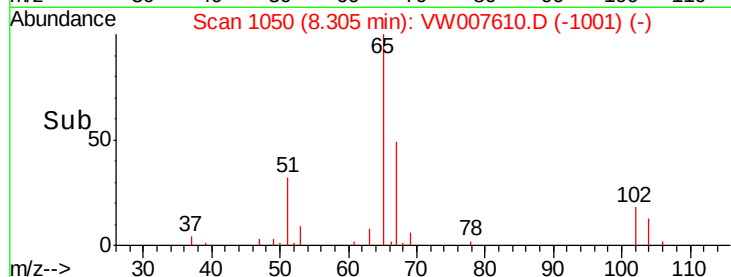
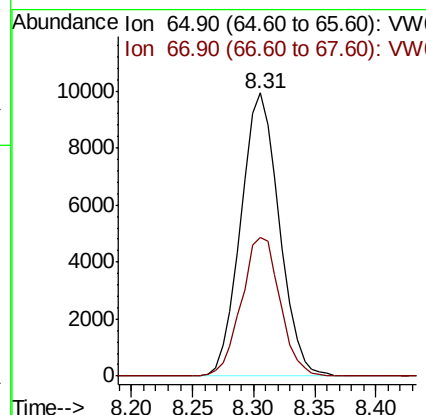
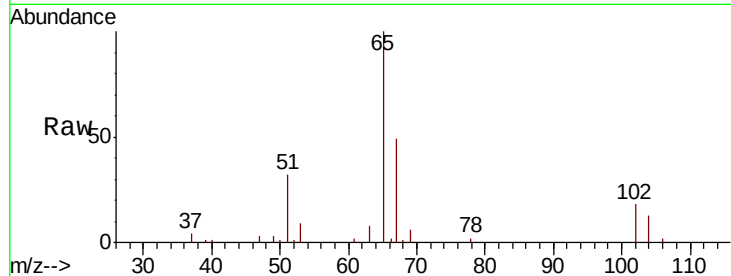




#33
 1,2-Dichloroethane-d4
 Concen: 80.805 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW007610.D
 Acq: 16 Dec 2018 05:07

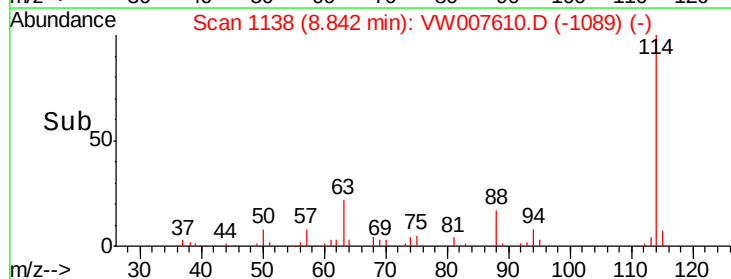
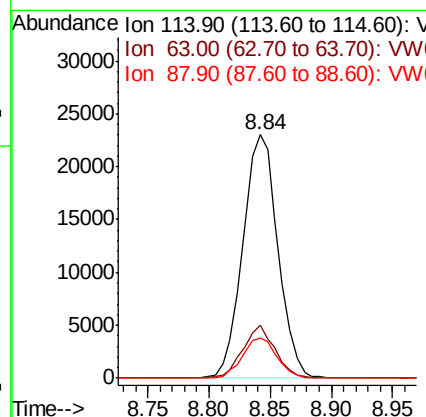
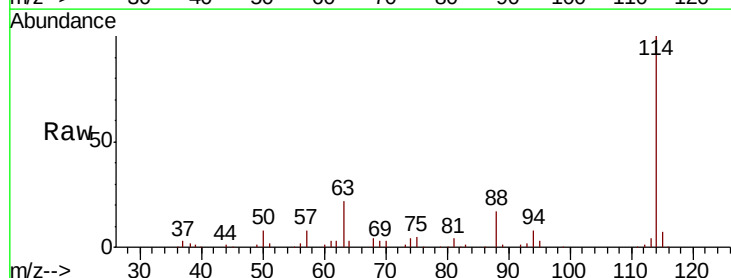
Instrument :
 MSVOA_W
 ClientSampled :

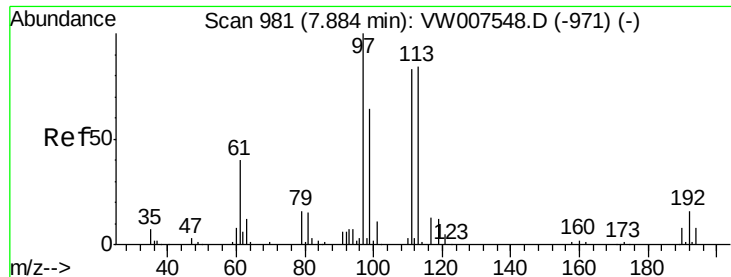
Tot Ion: 65 Resp: 21655
 Ion Ratio Lower Upper
 65 100
 67 49.3 0.0 101.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW007610.D
 Acq: 16 Dec 2018 05:07

Tgt Ion: 114 Resp: 45635
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 39.6
 88 16.6 0.0 31.4





#35

Dibromofluoromethane

Concen: 60.866 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW007610.D

Acq: 16 Dec 2018 05:07

Instrument :
MSVOA_W
ClientSampleId :

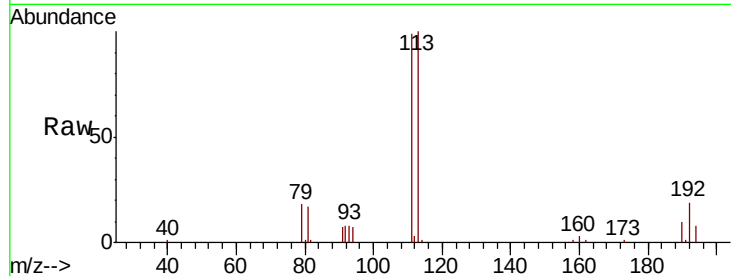
Tot Ion:113 Resp: 16814

Ion Ratio Lower Upper

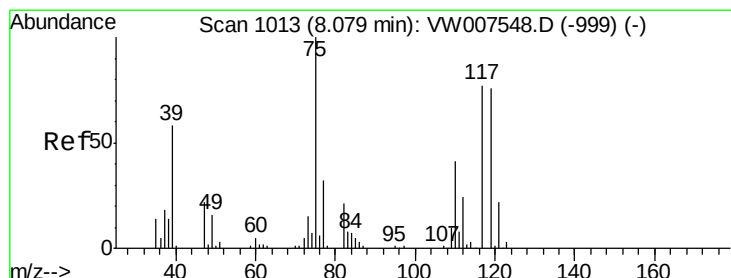
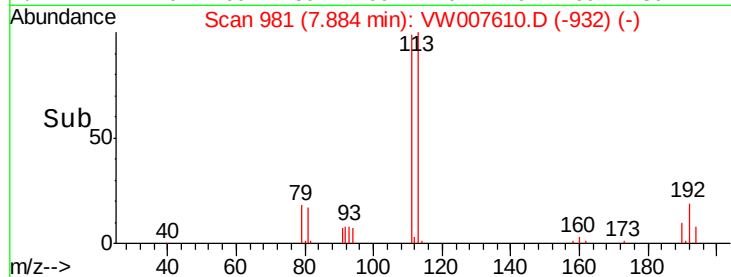
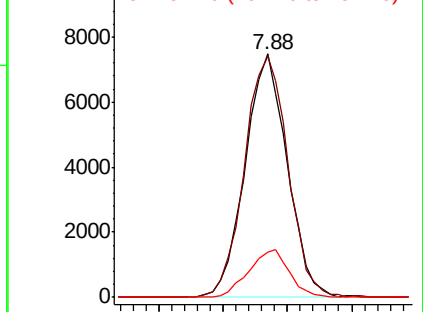
113 100

111 102.8 81.1 121.7

192 18.9 14.6 21.8



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: 4.564 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.13 min

Lab File: VW007610.D

Acq: 16 Dec 2018 05:07

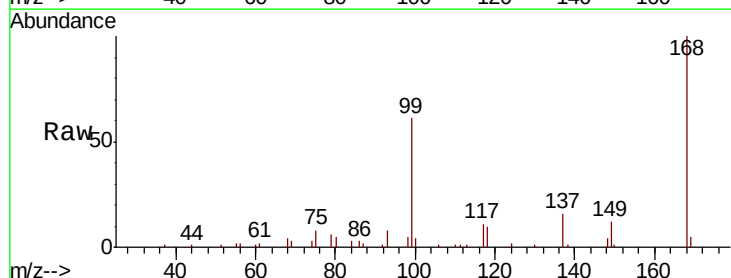
Tgt Ion: 75 Resp: 1900

Ion Ratio Lower Upper

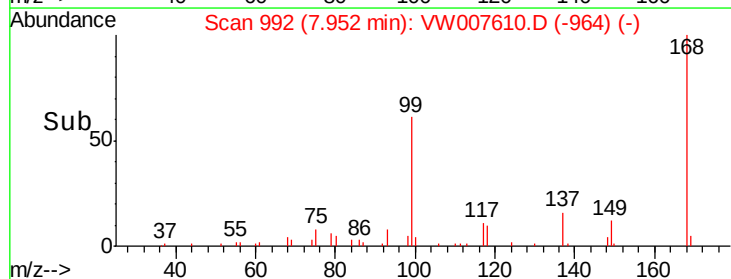
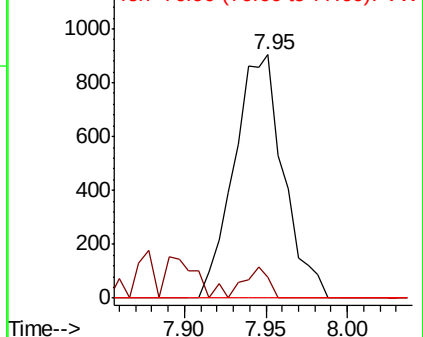
75 100

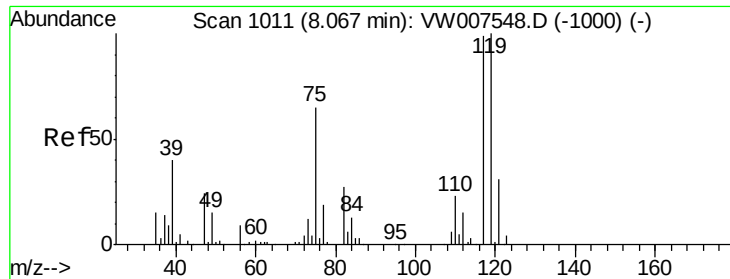
110 6.3 18.5 55.5#

77 0.0 25.6 38.4#



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

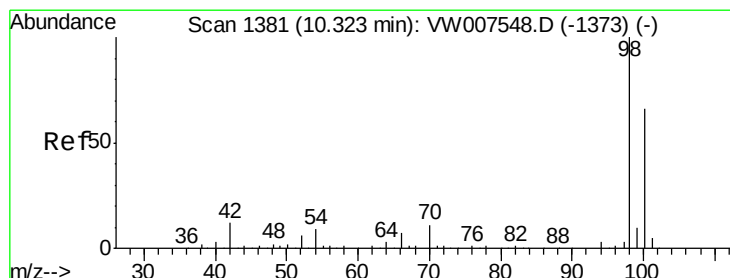
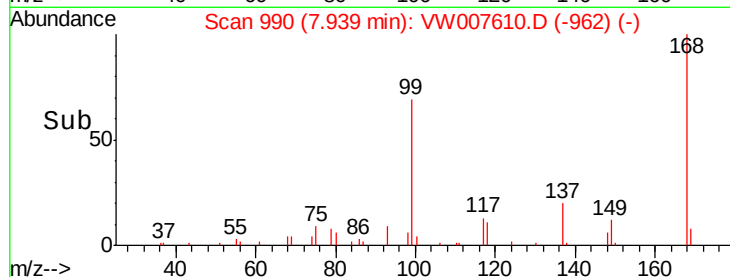
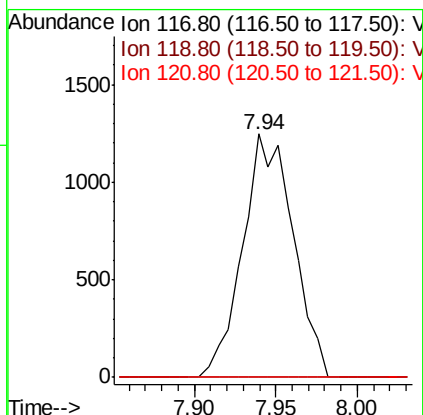
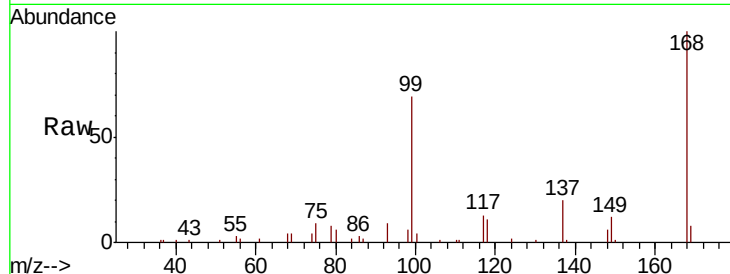




#38
Carbon Tetrachloride
Concen: 5.932 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.13 min
Lab File: VW007610.D
Acq: 16 Dec 2018 05:07

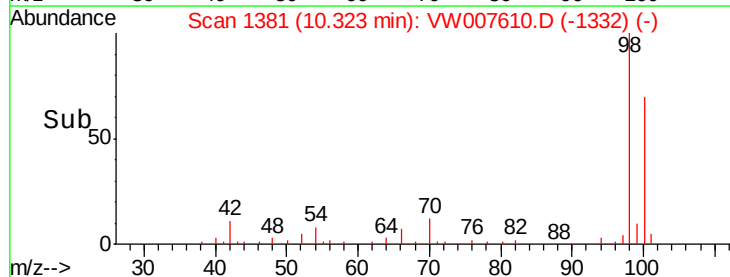
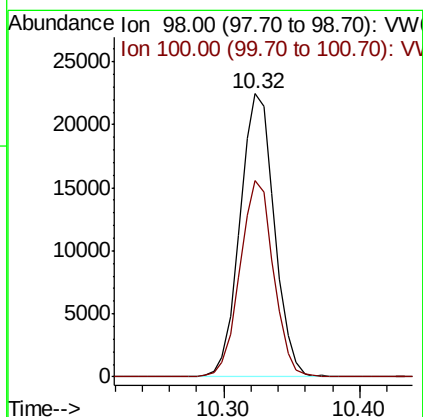
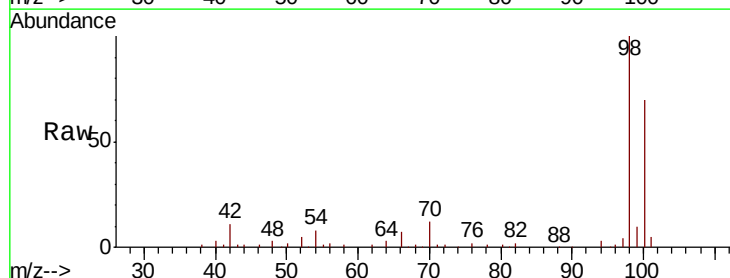
Instrument :
MSVOA_W
ClientSampleId :

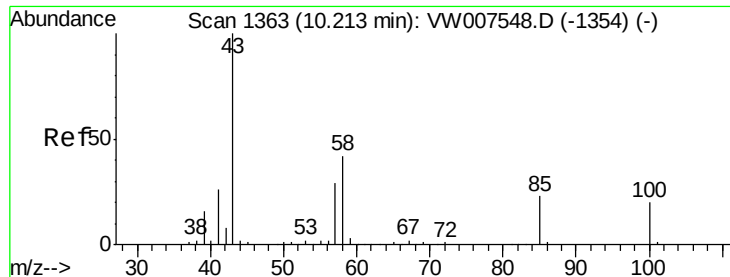
Tot Ion:117 Resp: 2687
Ion Ratio Lower Upper
117 100
119 0.0 74.3 111.5#
121 0.0 24.3 36.5#



#50
Toluene-d8
Concen: 38.257 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW007610.D
Acq: 16 Dec 2018 05:07

Tgt Ion: 98 Resp: 39626
Ion Ratio Lower Upper
98 100
100 67.7 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 2.173 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW007610.D

Acq: 16 Dec 2018 05:07

Instrument :

MSVOA_W

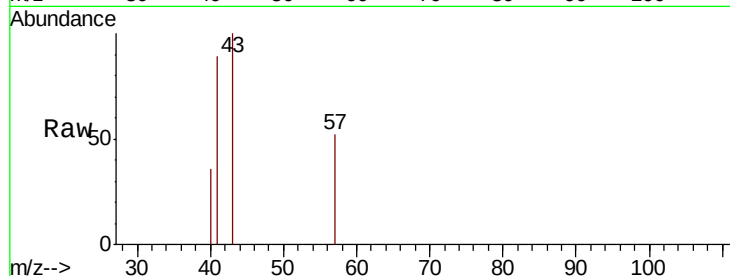
ClientSampleId :

Tot Ion: 43 Resp: 314

Ion Ratio Lower Upper

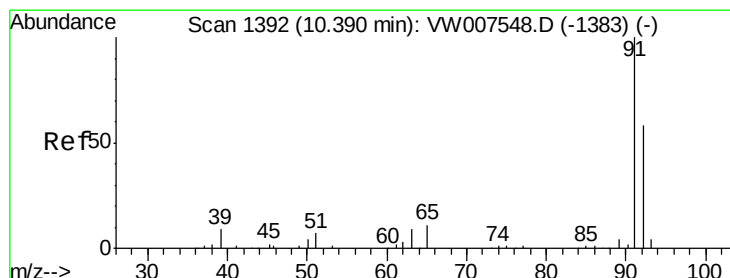
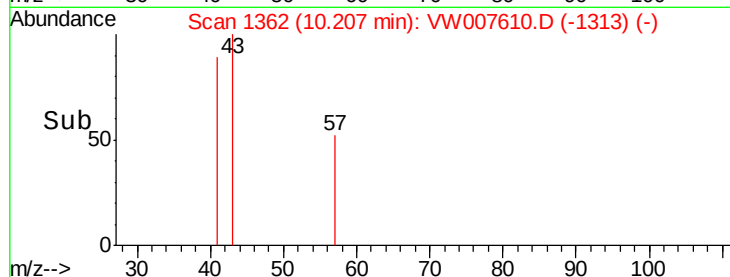
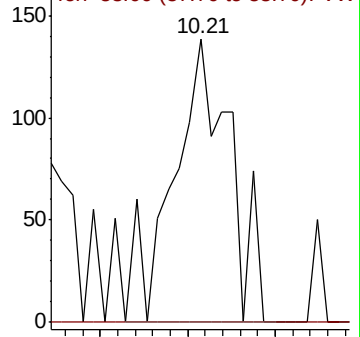
43 100

58 0.0 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#52

Toluene

Concen: 9.202 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW007610.D

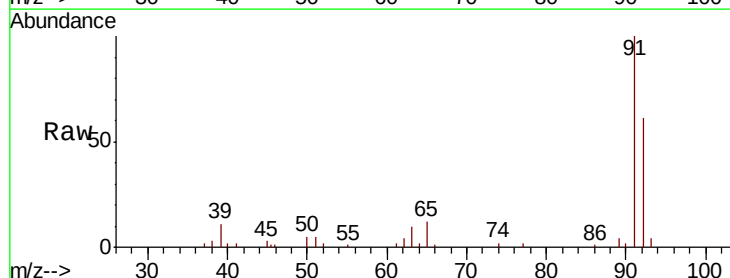
Acq: 16 Dec 2018 05:07

Tgt Ion: 92 Resp: 6880

Ion Ratio Lower Upper

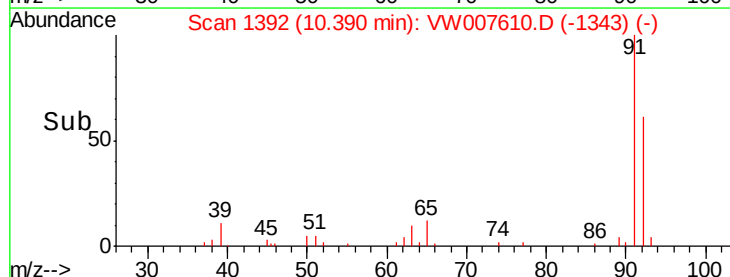
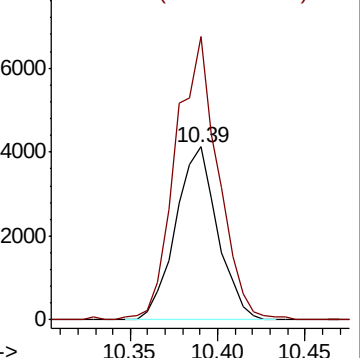
92 100

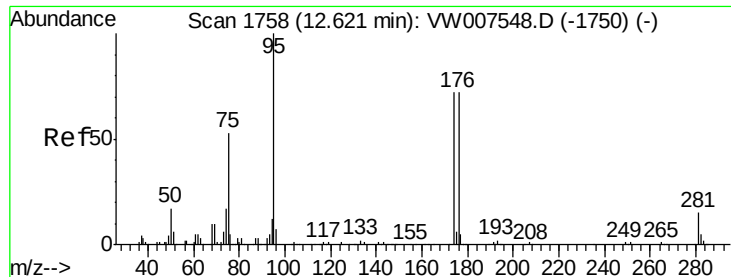
91 166.3 136.2 204.2



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW

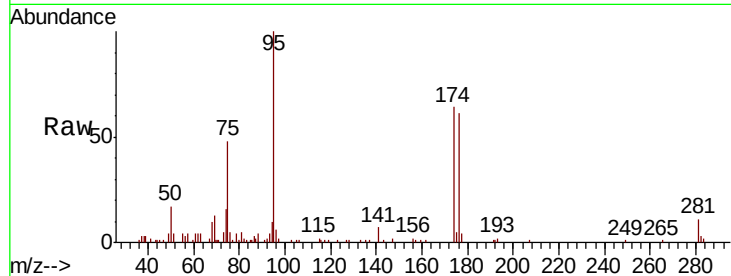




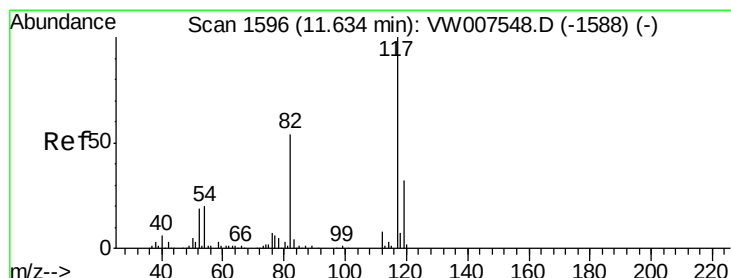
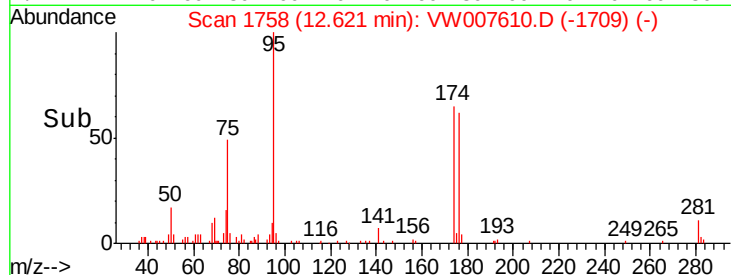
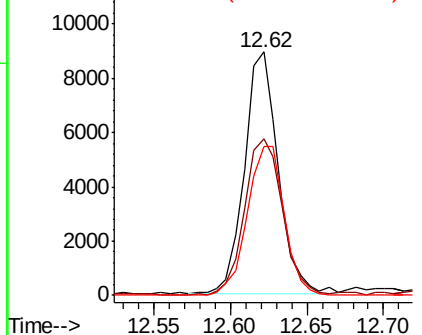
#62
4-Bromofluorobenzene
Concen: 36.121 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.00 min
Lab File: VW007610.D
Acq: 16 Dec 2018 05:07

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
95	100		
174	72.5	0.0	147.2
176	67.1	0.0	138.8

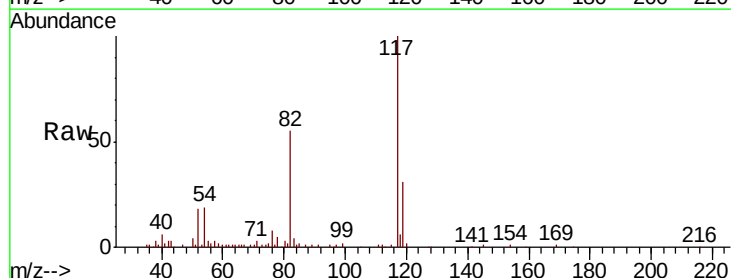


Abundance Ion 94.90 (94.60 to 95.60): VW
Ion 173.80 (173.50 to 174.50): VW
Ion 175.80 (175.50 to 176.50): VW

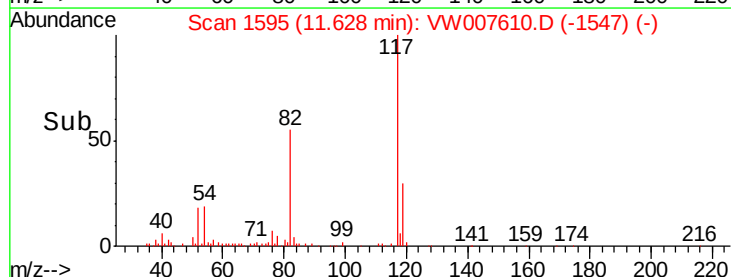
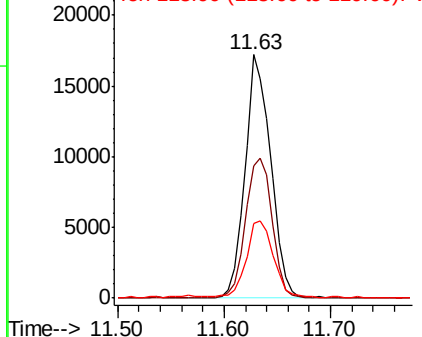


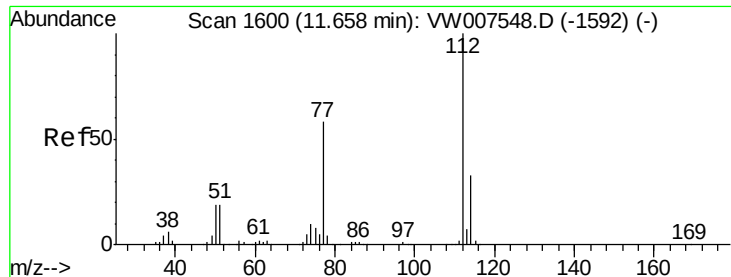
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW007610.D
Acq: 16 Dec 2018 05:07

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.6	42.3	63.5
119	30.0	23.0	34.6



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

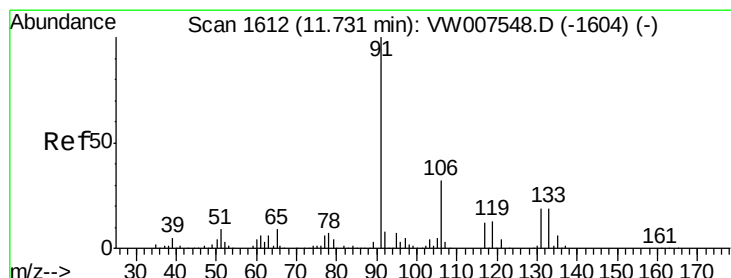
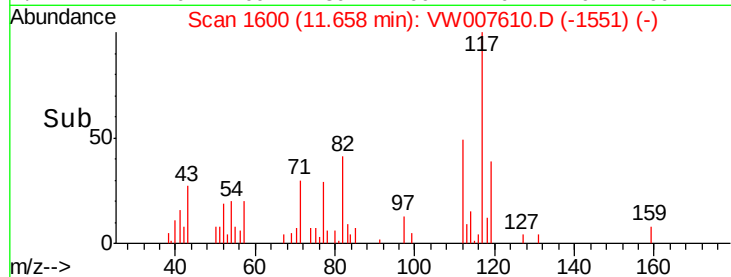
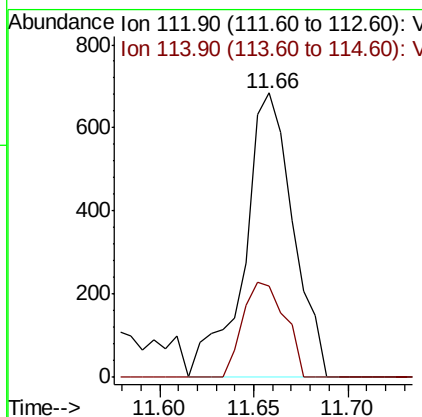
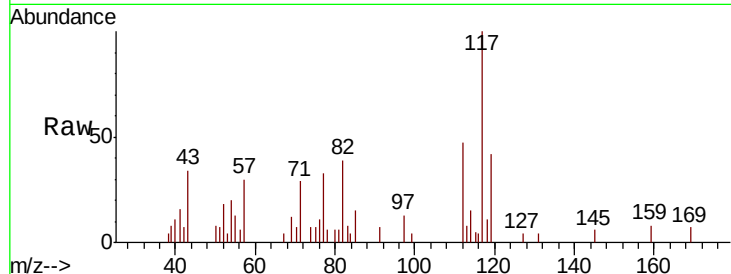




#65
Chlorobenzene
Concen: 2.010 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW007610.D
Acq: 16 Dec 2018 05:07

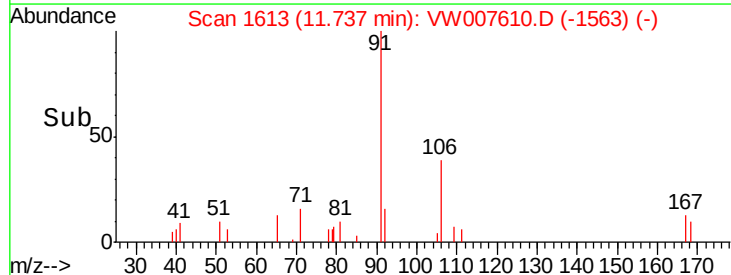
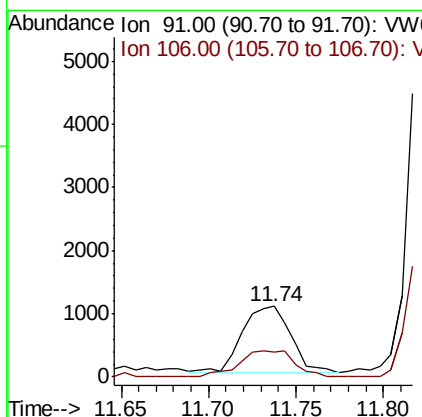
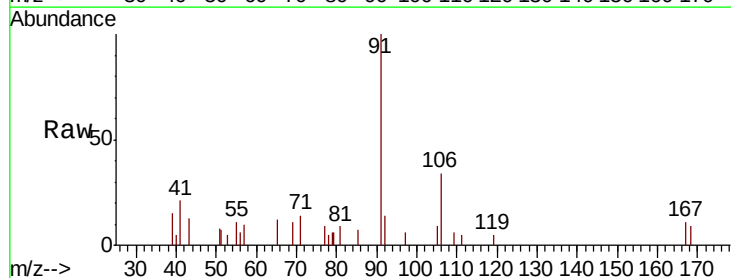
Instrument :
MSVOA_W
ClientSampleId :

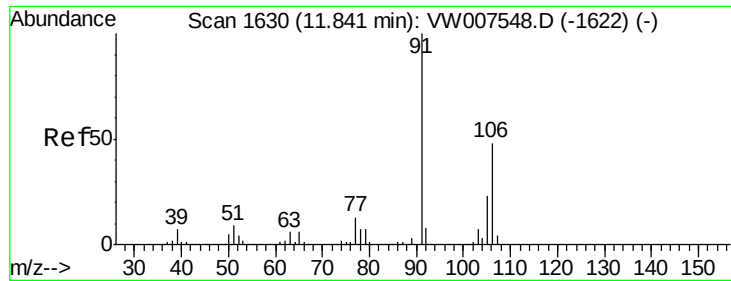
Tot Ion:112 Resp: 1224
Ion Ratio Lower Upper
112 100
114 31.8 27.8 41.8



#67
Ethyl Benzene
Concen: 1.948 ug/l
RT: 11.74 min Scan# 1613
Delta R.T. 0.01 min
Lab File: VW007610.D
Acq: 16 Dec 2018 05:07

Tgt Ion: 91 Resp: 2039
Ion Ratio Lower Upper
91 100
106 36.4 21.8 32.8#





#68

m/p-Xylenes

Concen: 35.600 ug/l

RT: 11.83 min Scan# 1629

Delta R.T. -0.01 min

Lab File: VW007610.D

Acq: 16 Dec 2018 05:07

Instrument :

MSVOA_W

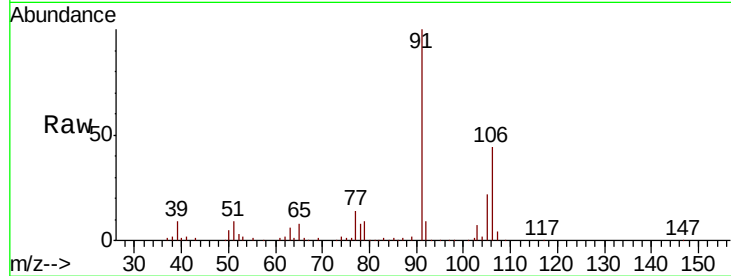
ClientSampled :

Tot Ion:106 Resp: 14488

Ion Ratio Lower Upper

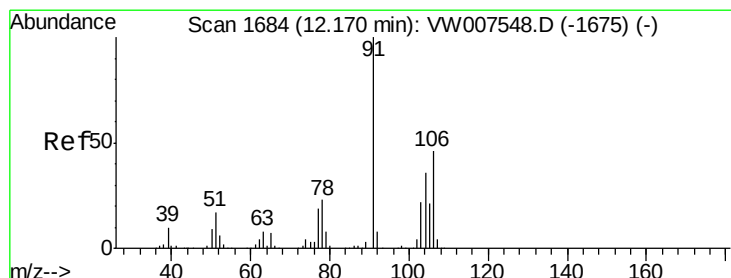
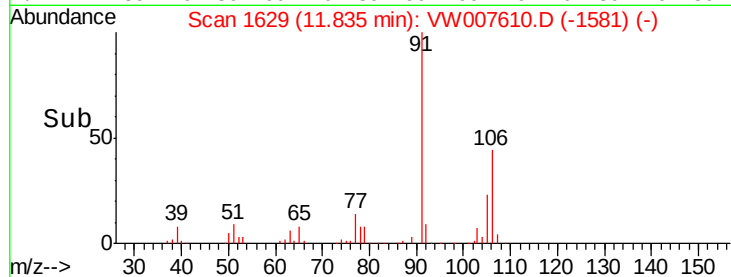
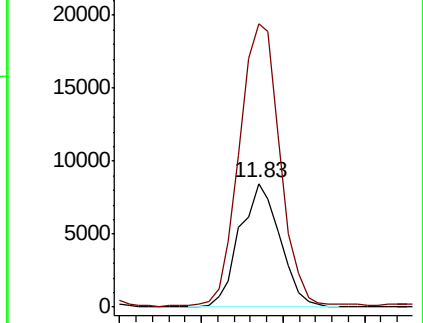
106 100

91 232.1 165.3 247.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#69

o-Xylene

Concen: 3.770 ug/l

RT: 12.17 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VW007610.D

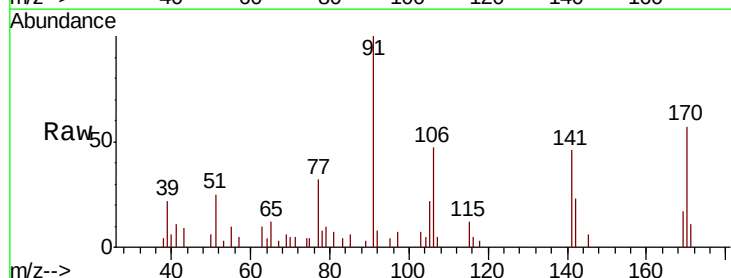
Acq: 16 Dec 2018 05:07

Tgt Ion:106 Resp: 1433

Ion Ratio Lower Upper

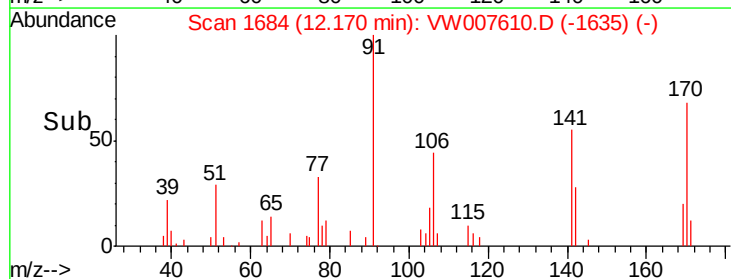
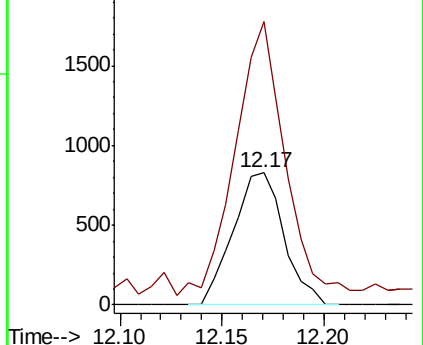
106 100

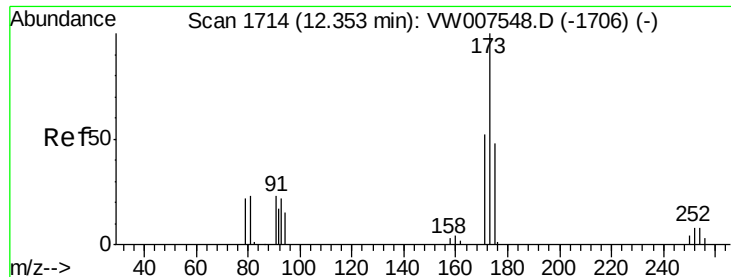
91 202.6 106.6 319.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#71

Bromoform

Concen: 1.157 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW007610.D

Acq: 16 Dec 2018 05:07

Instrument :

MSVOA_W

ClientSampleId :

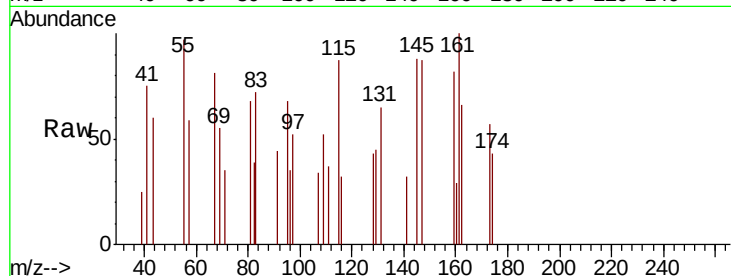
Tot Ion:173 Resp: 127

Ion Ratio Lower Upper

173 100

175 0.0 23.6 70.8#

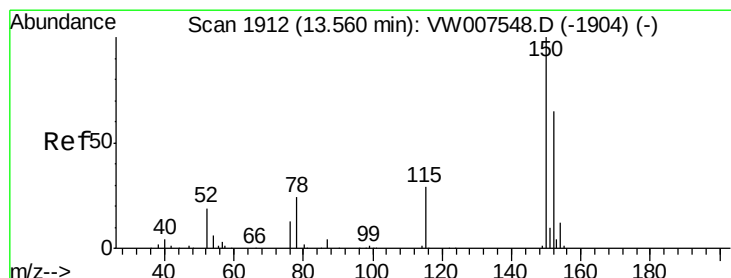
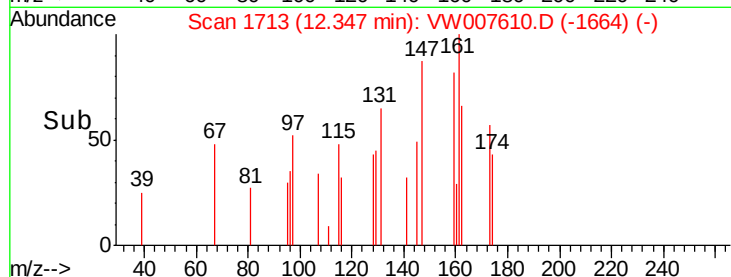
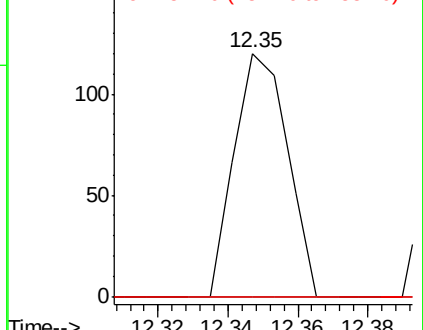
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VW007610.D

Acq: 16 Dec 2018 05:07

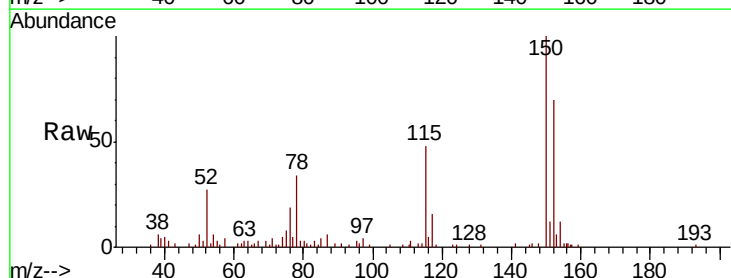
Tgt Ion:152 Resp: 9219

Ion Ratio Lower Upper

152 100

115 65.6 31.4 94.2

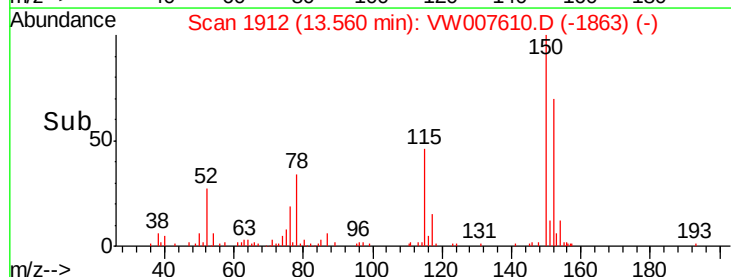
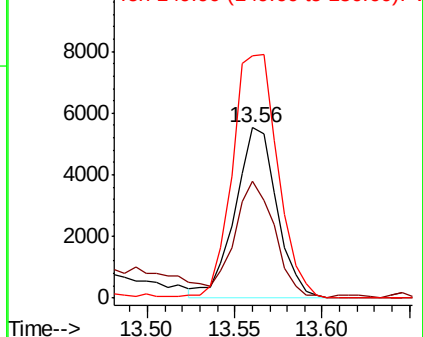
150 154.4 0.0 358.4

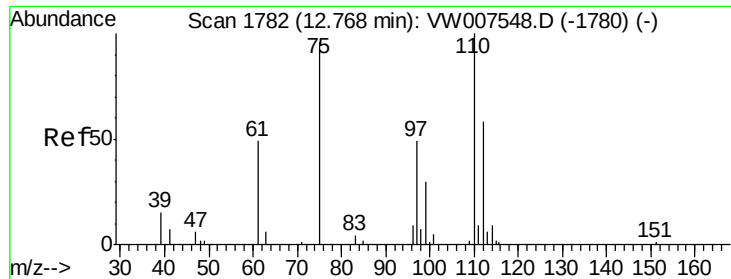


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 5.328 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. 0.12 min

Lab File: VW007610.D

Acq: 16 Dec 2018 05:07

Instrument :

MSVOA_W

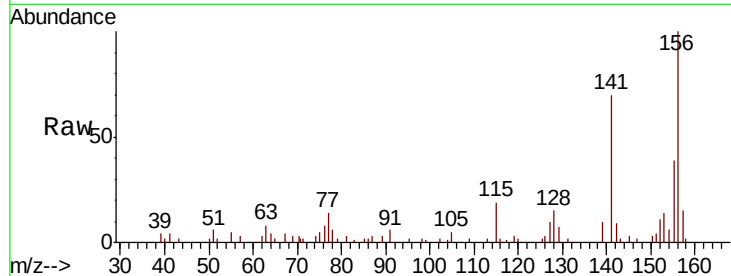
ClientSampled :

Tot Ion: 75 Resp: 405

Ion Ratio Lower Upper

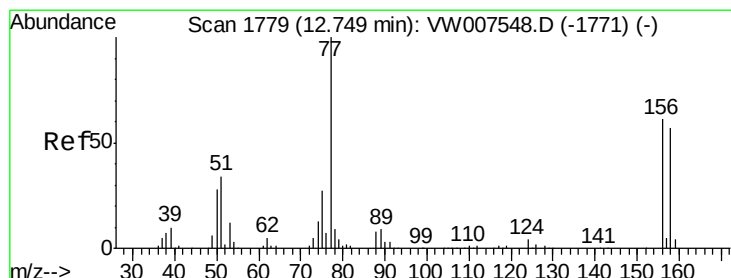
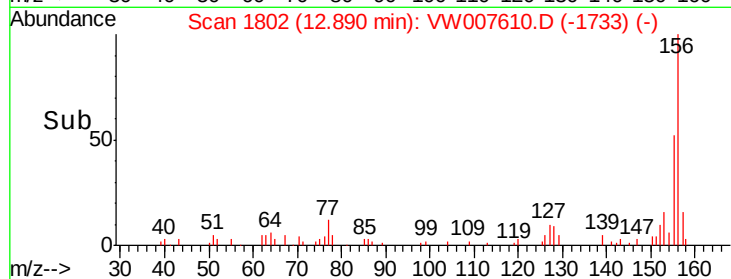
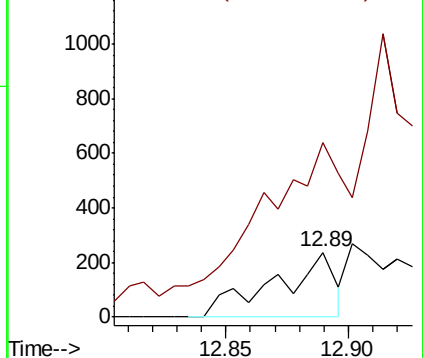
75 100

77 322.2 166.9 500.8



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#77

Bromobenzene

Concen: 151.641 ug/l

RT: 12.91 min Scan# 1806

Delta R.T. 0.16 min

Lab File: VW007610.D

Acq: 16 Dec 2018 05:07

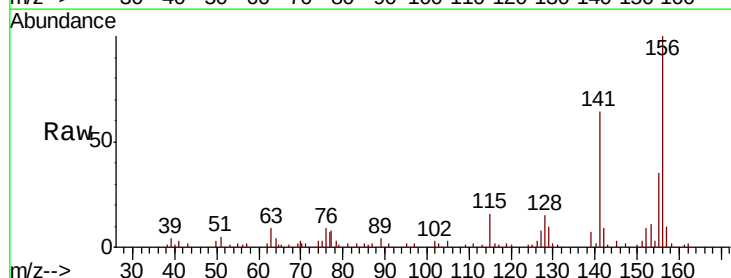
Tgt Ion: 156 Resp: 23744

Ion Ratio Lower Upper

156 100

77 3.0 88.1 264.4#

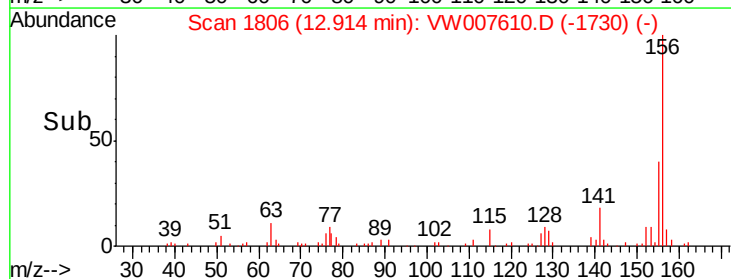
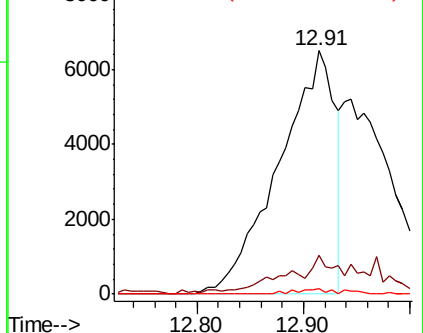
158 1.2 45.6 136.7#

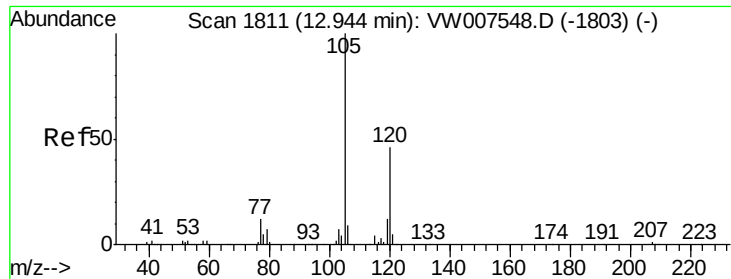


Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V

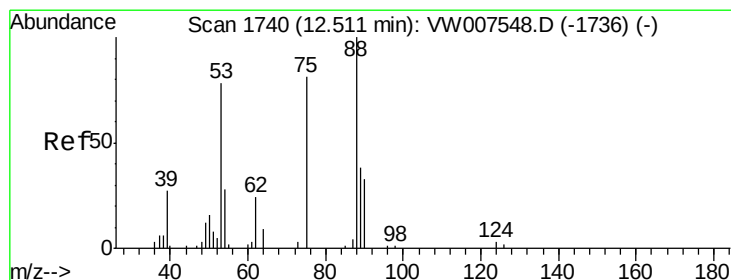
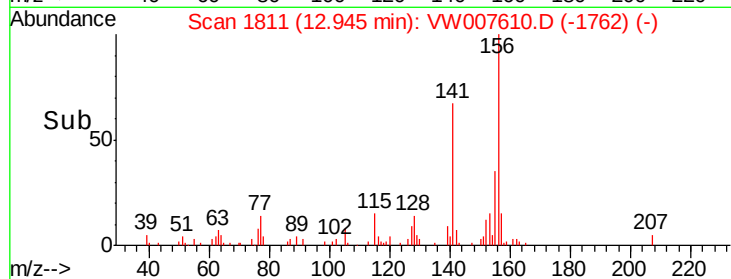
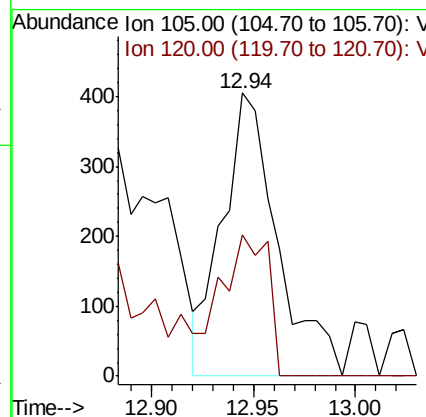
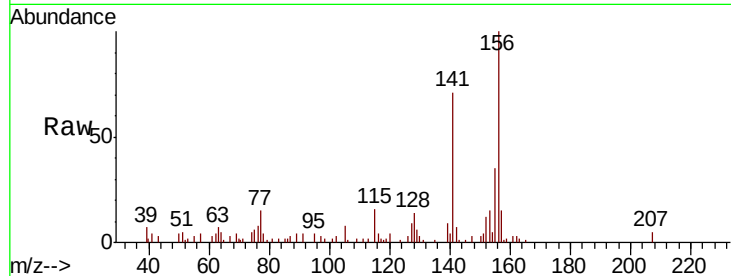




#80
 1,3,5-Trimethylbenzene
 Concen: 1.277 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. -0.00 min
 Lab File: VW007610.D
 Acq: 16 Dec 2018 05:07

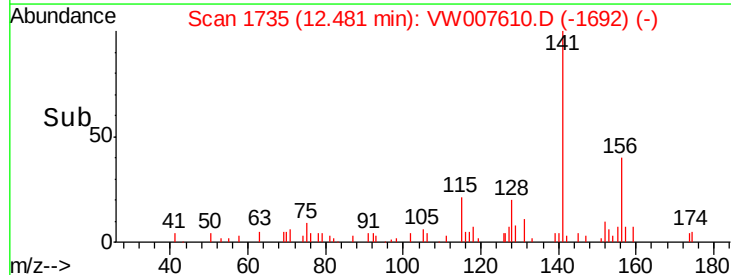
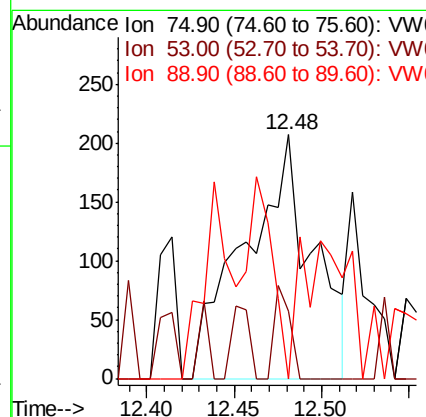
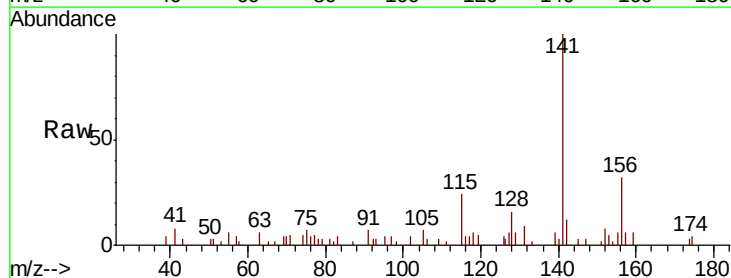
Instrument :
 MSVOA_W
 ClientSampled :

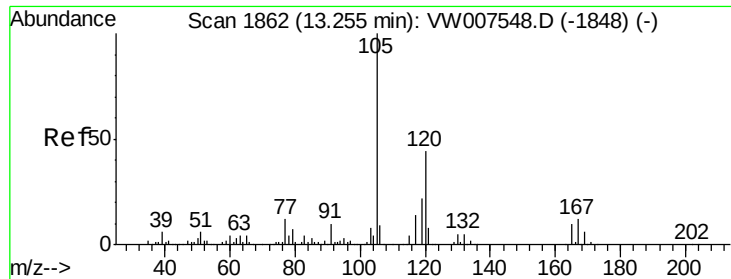
Tot Ion:105 Resp: 758
 Ion Ratio Lower Upper
 105 100
 120 43.1 23.8 71.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 16.187 ug/l
 RT: 12.48 min Scan# 1735
 Delta R.T. -0.04 min
 Lab File: VW007610.D
 Acq: 16 Dec 2018 05:07

Tgt Ion: 75 Resp: 557
 Ion Ratio Lower Upper
 75 100
 53 9.0 84.9 127.3#
 89 43.1 40.3 60.5

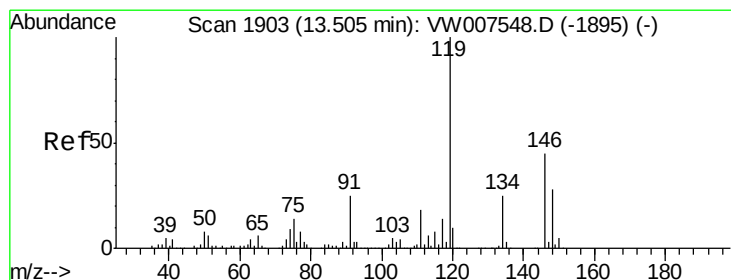
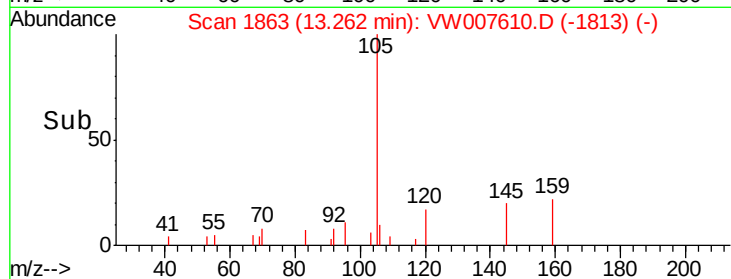
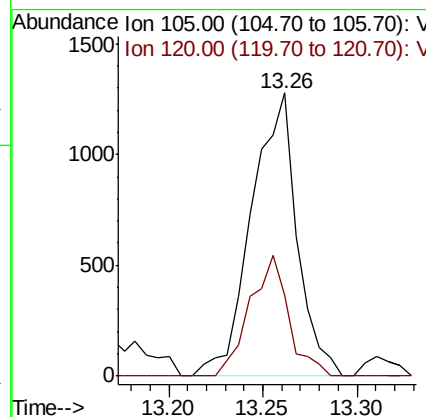
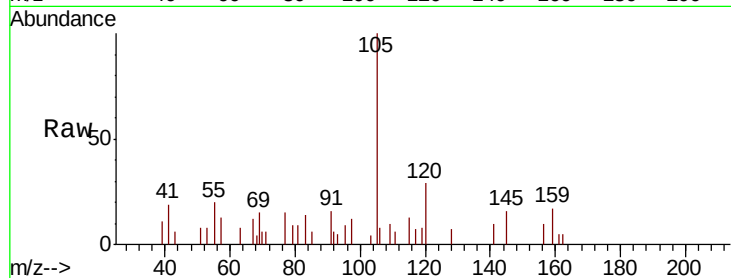




#84
 1,2,4-Trimethylbenzene
 Concen: 3.512 ug/l
 RT: 13.26 min Scan# 1863
 Delta R.T. 0.01 min
 Lab File: VW007610.D
 Acq: 16 Dec 2018 05:07

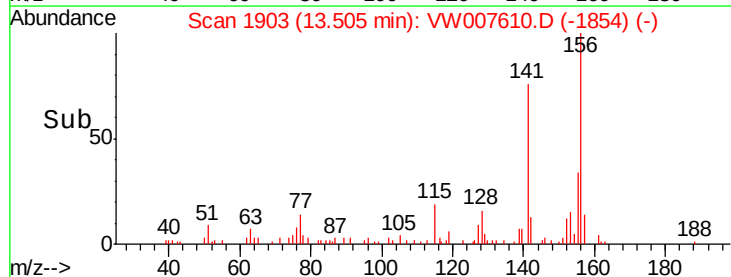
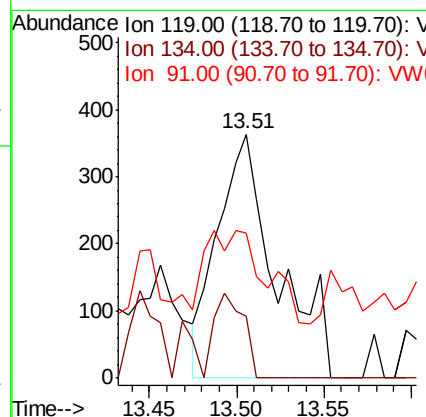
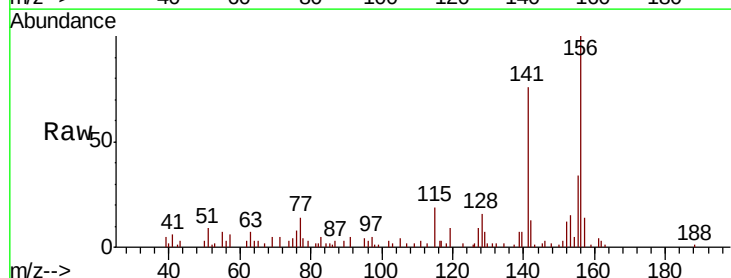
Instrument :
 MSVOA_W
 ClientSampled :

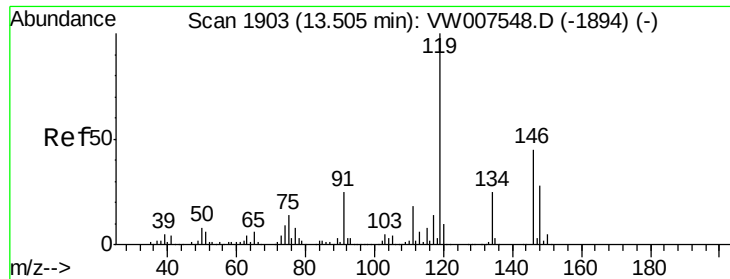
Tot Ion:105 Resp: 2145
 Ion Ratio Lower Upper
 105 100
 120 36.3 22.6 67.7



#86
 p-Isopropyltoluene
 Concen: 1.328 ug/l
 RT: 13.51 min Scan# 1903
 Delta R.T. -0.00 min
 Lab File: VW007610.D
 Acq: 16 Dec 2018 05:07

Tgt Ion:119 Resp: 852
 Ion Ratio Lower Upper
 119 100
 134 17.5 12.9 38.7
 91 38.4 11.9 35.9#

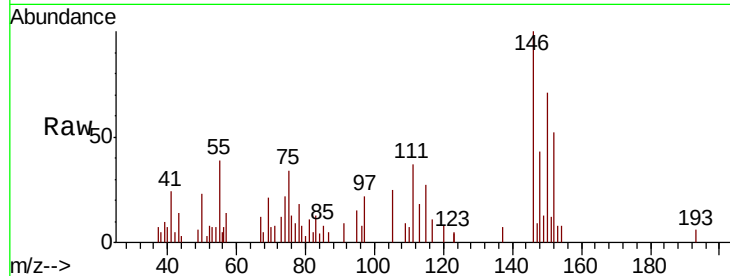




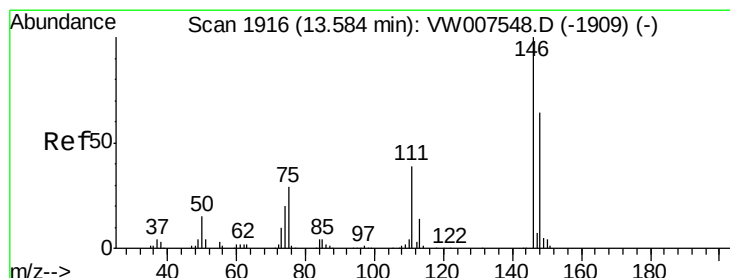
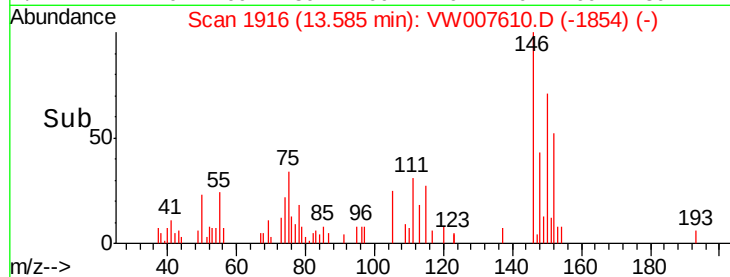
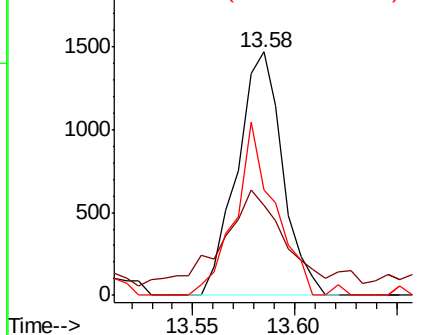
#87
 1,3-Dichlorobenzene
 Concen: 7.274 ug/l
 RT: 13.58 min Scan# 1916
 Delta R.T. 0.08 min
 Lab File: VW007610.D
 Acq: 16 Dec 2018 05:07

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:146 Resp: 2271
 Ion Ratio Lower Upper
 146 100
 111 51.3 20.1 60.3
 148 61.4 31.4 94.0

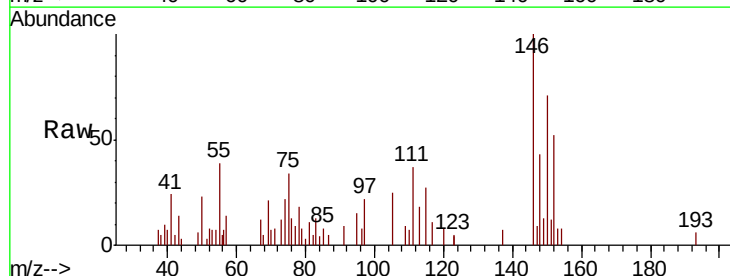


Abundance Ion 145.90 (145.60 to 146.60): V
 2000 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

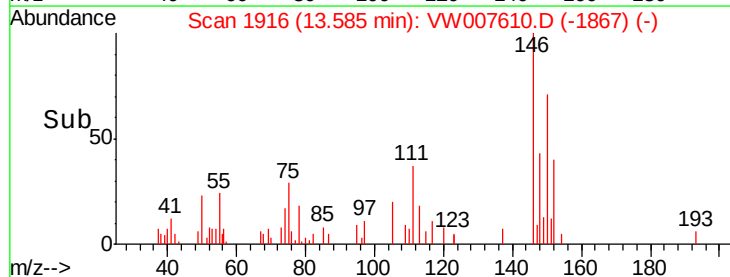
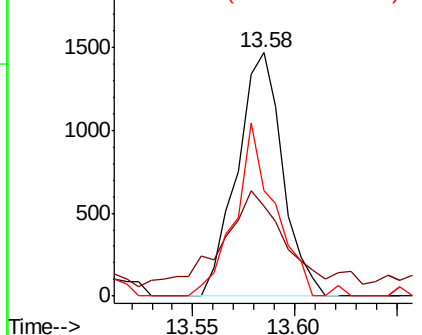


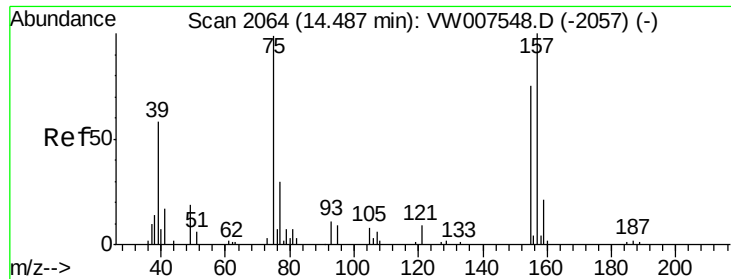
#88
 1,4-Dichlorobenzene
 Concen: 7.236 ug/l
 RT: 13.58 min Scan# 1916
 Delta R.T. -0.00 min
 Lab File: VW007610.D
 Acq: 16 Dec 2018 05:07

Tgt Ion:146 Resp: 2271
 Ion Ratio Lower Upper
 146 100
 111 51.3 20.3 61.0
 148 61.4 33.5 100.5



Abundance Ion 145.90 (145.60 to 146.60): V
 2000 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 3.715 ug/l

RT: 14.33 min Scan# 2038

Delta R.T. -0.16 min

Lab File: VW007610.D

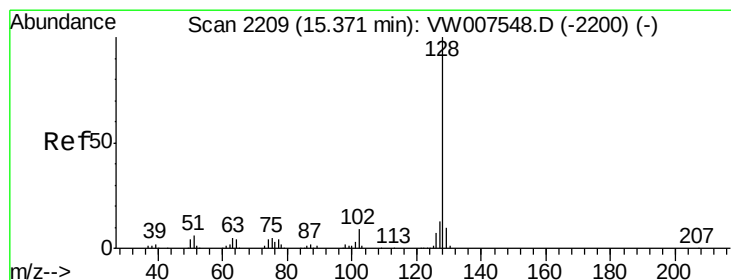
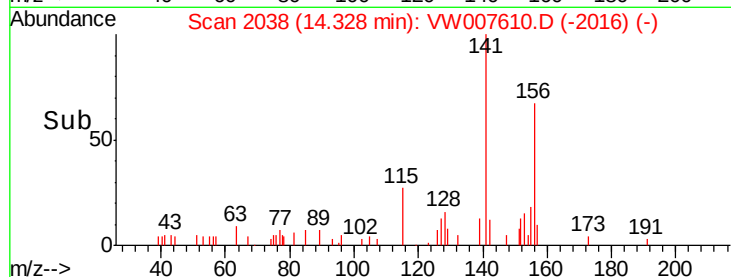
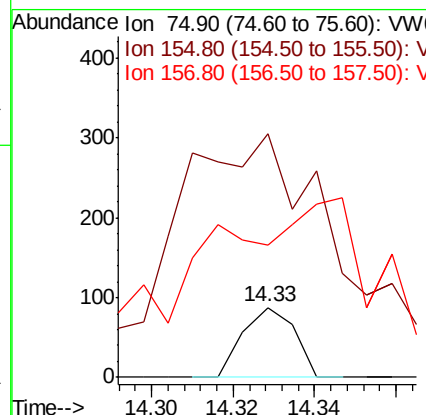
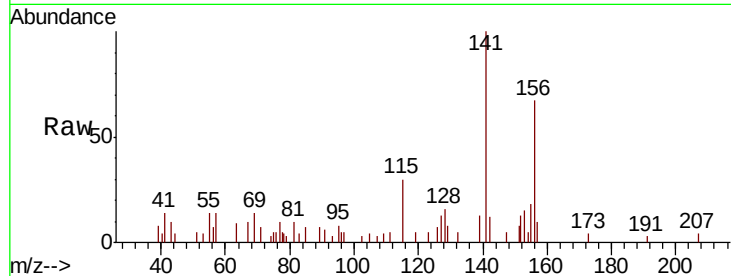
Acq: 16 Dec 2018 05:07

Instrument :

MSVOA_W

ClientSampled :

Tot Ion: 75 Resp: 78
 Ion Ratio Lower Upper
 75 100
 155 1248.7 40.8 122.2#
 157 943.6 51.1 153.4#



#95

Naphthalene

Concen: 12.998 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.01 min

Lab File: VW007610.D

Acq: 16 Dec 2018 05:07

Tgt Ion: 128 Resp: 4785
 Ion Ratio Lower Upper
 128 100
 127 14.5 10.2 15.4
 129 13.7 8.3 12.5#

