

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW122218\
 Data File : VW007776.D
 Acq On : 21 Dec 2018 06:30
 Operator : SY/AP
 Sample : J6389-01
 Misc : 5.24G/5ML/MSVOA W/SOIL
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 P001-SS012-0006-01

Quant Time: Dec 21 10:06:52 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	65728	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	111094	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	76569	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	22256	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	36486	50.65	ug/l	0.00
Spiked Amount			Recovery	=	101.30%	
35) Dibromofluoromethane	7.88	113	30560	45.09	ug/l	0.00
Spiked Amount			Recovery	=	90.18%	
50) Toluene-d8	10.32	98	91697	35.89	ug/l	0.00
Spiked Amount			Recovery	=	71.78%	
62) 4-Bromofluorobenzene	12.62	95	25842	26.18	ug/l	0.00
Spiked Amount			Recovery	=	52.36%	

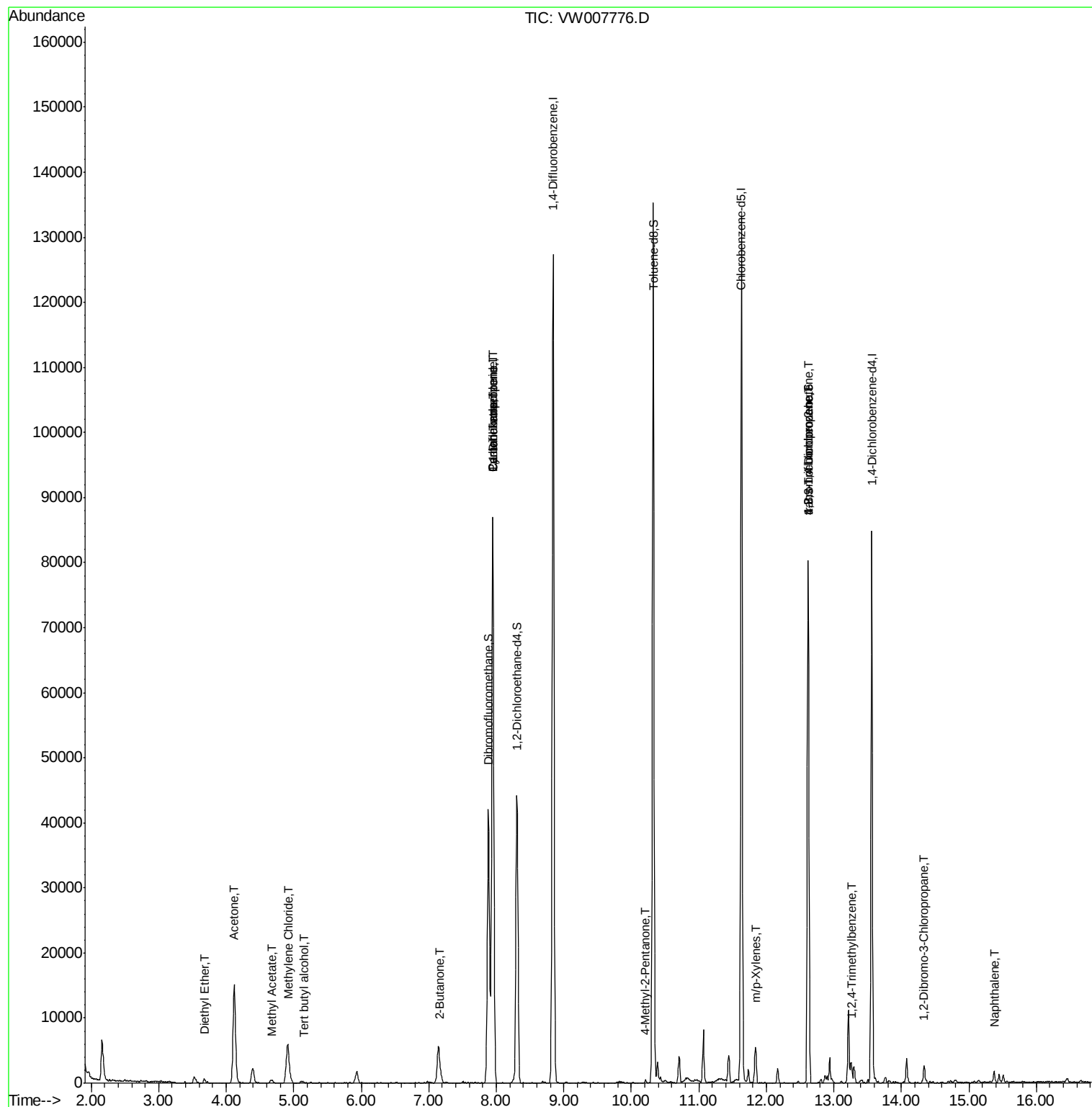
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.68	74	351	1.205	ug/l	83
11) Tert butyl alcohol	5.16	59	76	1.564	ug/l #	73
16) Acetone	4.12	43	25971	192.516	ug/l	97
18) Methyl Acetate	4.68	43	1077	3.357	ug/l #	46
20) Methylene Chloride	4.92	84	5253	1.694	ug/l	99
25) 2-Butanone	7.17	43	1817	11.499	ug/l #	85
31) Cyclohexane	7.95	56	1345	1.254	ug/l #	12
36) 1,1-Dichloropropene	7.95	75	4981	4.645	ug/l #	49
38) Carbon Tetrachloride	7.95	117	6875	5.444	ug/l #	15
51) 4-Methyl-2-Pentanone	10.21	43	361	1.030	ug/l #	74
68) m/p-Xylenes	11.84	106	1945	1.763	ug/l	95
76) 1,2,3-Trichloropropane	12.62	75	12932	75.178	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	12932	157.804	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.26	105	2482	1.695	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.34	75	246	4.749	ug/l #	3
95) Naphthalene	15.38	128	1976	2.247	ug/l #	92

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W122118S.M
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# 992

Delta R.T. 0.01 min

Lab File: VW007776.D

Acq: 21 Dec 2018 06:30

Instrument :

MSVOA_W

ClientSampleId :

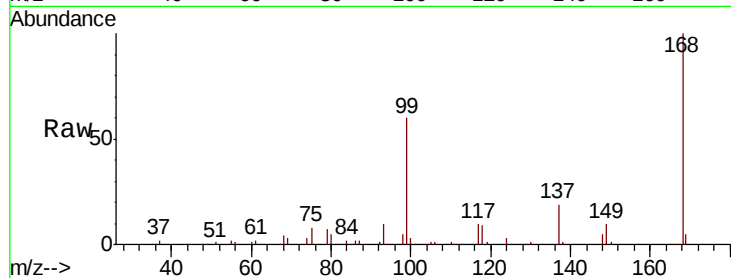
P001-SS012-0006-01

Tot Ion:168 Resp: 65728

Ion Ratio Lower Upper

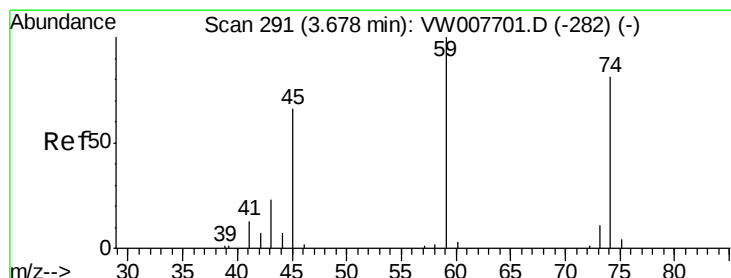
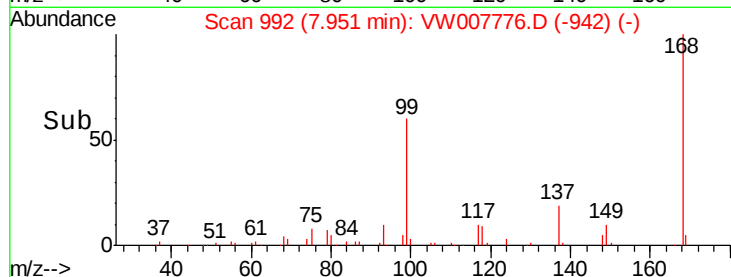
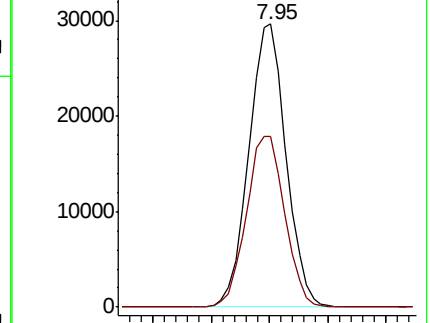
168 100

99 60.4 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.205 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW007776.D

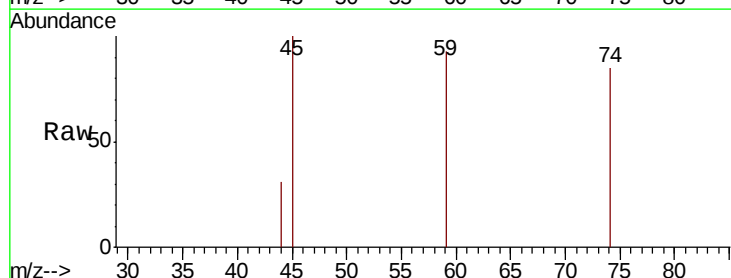
Acq: 21 Dec 2018 06:30

Tgt Ion: 74 Resp: 351

Ion Ratio Lower Upper

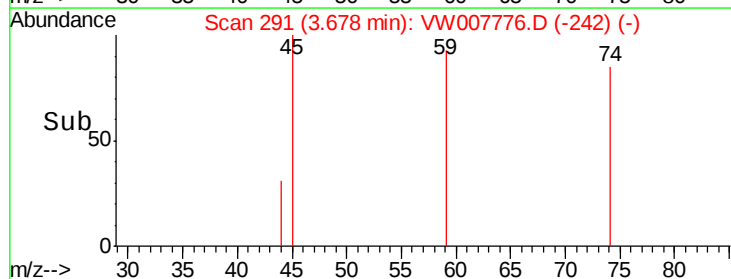
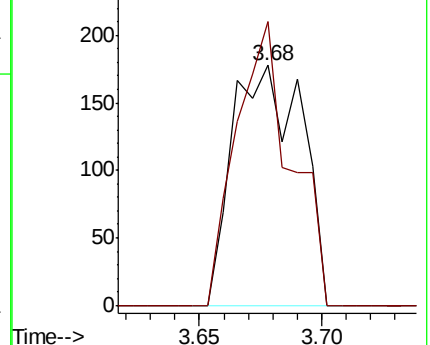
74 100

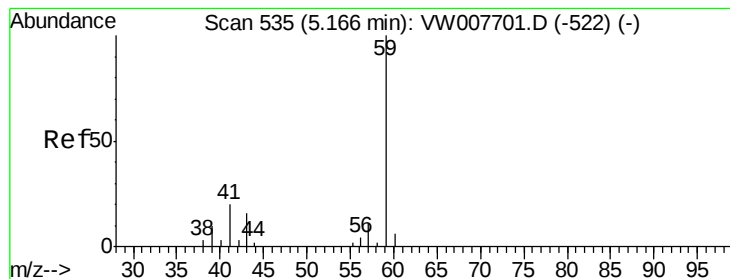
45 93.2 39.4 118.1



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW





#11

Tert butyl alcohol

Concen: 1.564 ug/l

RT: 5.16 min Scan# 534

Delta R.T. -0.01 min

Lab File: VW007776.D

Acq: 21 Dec 2018 06:30

Instrument :

MSVOA_W

ClientSampleId :

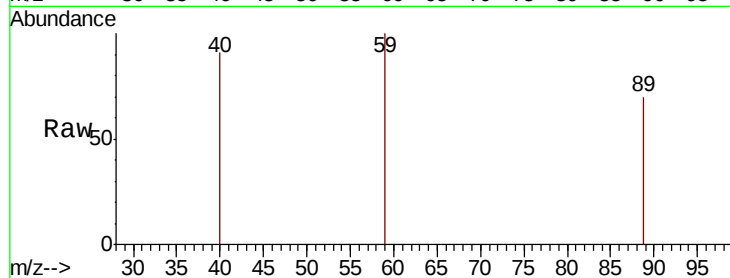
P001-SS012-0006-01

Tot Ion: 59 Resp: 76

Ion Ratio Lower Upper

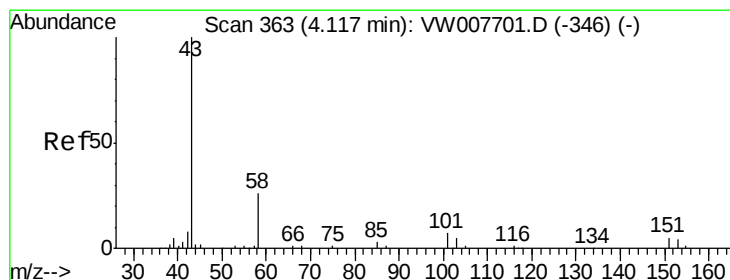
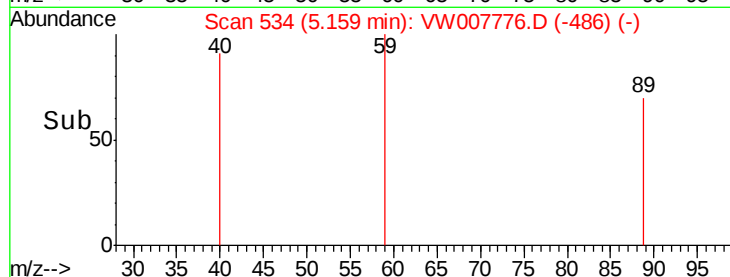
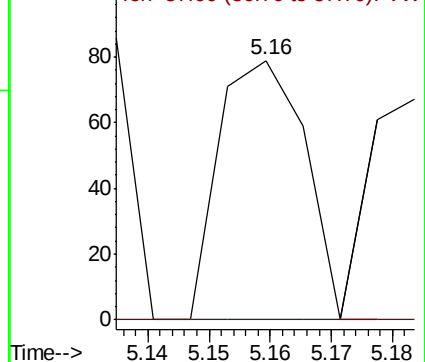
59 100

57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW



#16

Acetone

Concen: 192.516 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW007776.D

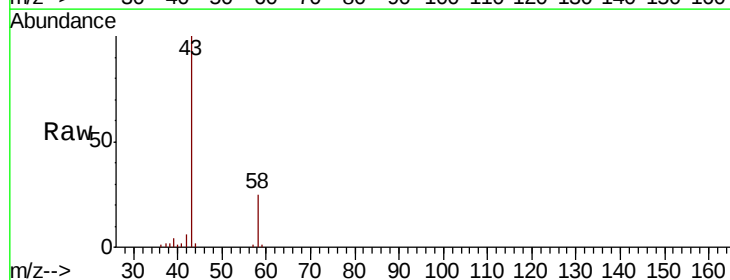
Acq: 21 Dec 2018 06:30

Tgt Ion: 43 Resp: 25971

Ion Ratio Lower Upper

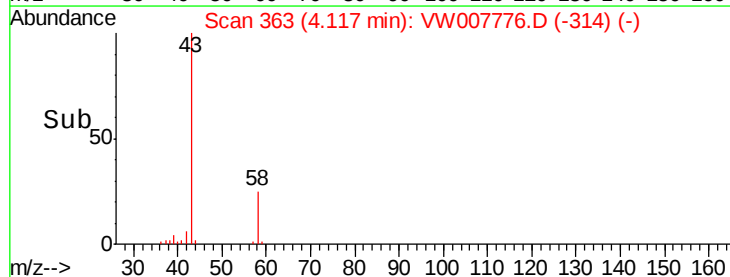
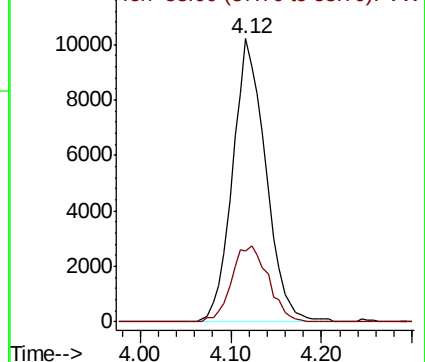
43 100

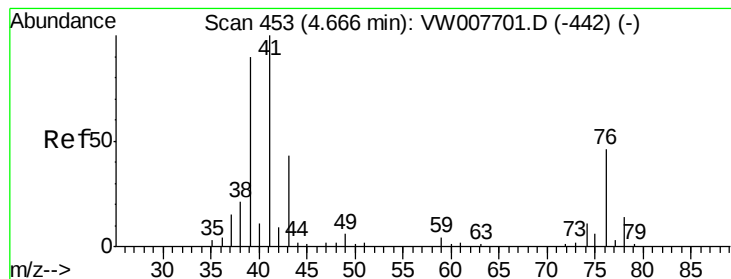
58 25.0 21.2 31.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#18

Methyl Acetate

Concen: 3.357 ug/l

RT: 4.68 min Scan# 456

Delta R.T. 0.02 min

Lab File: VW007776.D

Acq: 21 Dec 2018 06:30

Instrument :

MSVOA_W

ClientSampleId :

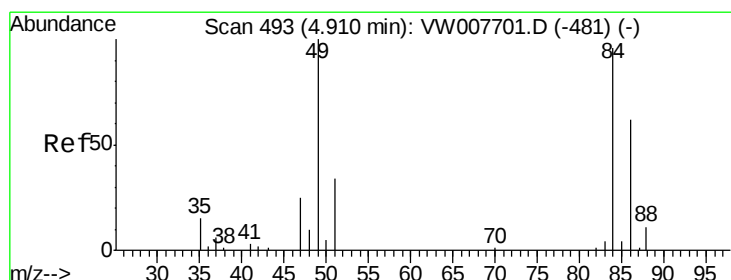
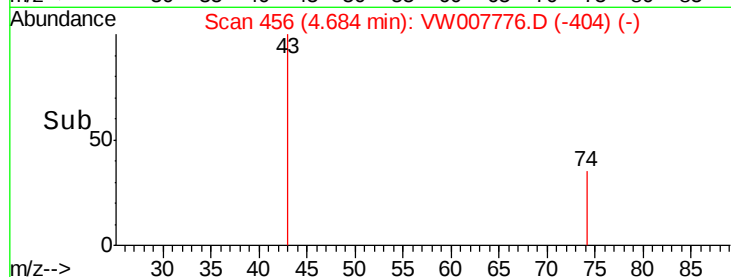
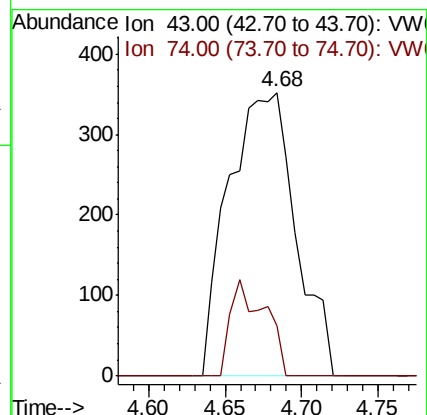
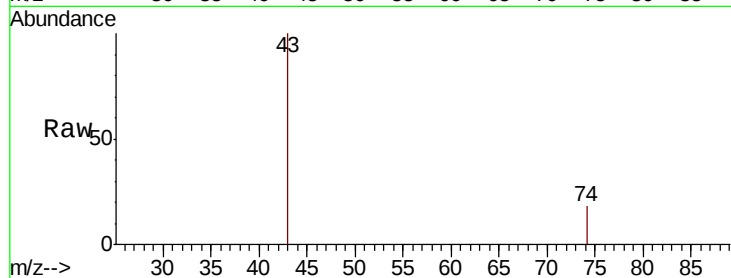
P001-SS012-0006-01

Tot Ion: 43 Resp: 1077

Ion Ratio Lower Upper

43 100

74 0.0 22.7 34.1#



#20

Methylene Chloride

Concen: 1.694 ug/l

RT: 4.92 min Scan# 494

Delta R.T. 0.01 min

Lab File: VW007776.D

Acq: 21 Dec 2018 06:30

Tgt Ion: 84 Resp: 5253

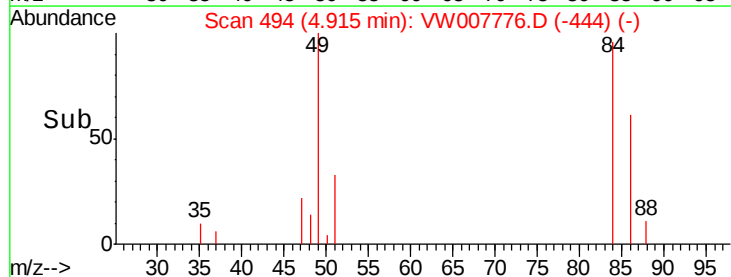
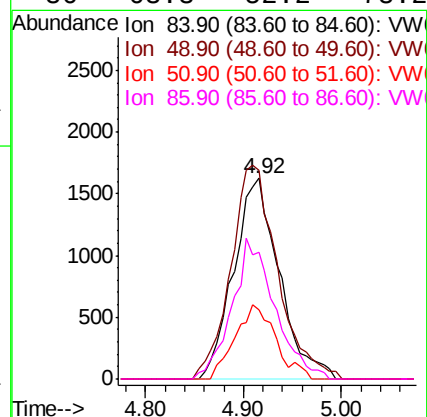
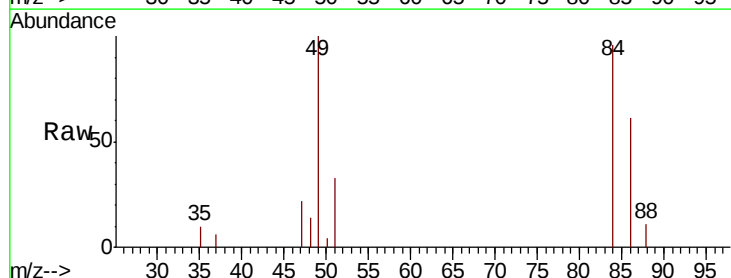
Ion Ratio Lower Upper

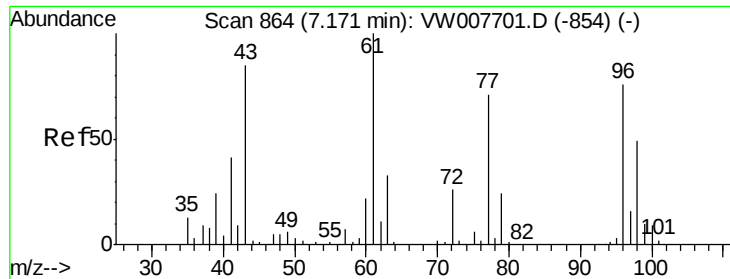
84 100

49 104.3 83.7 125.5

51 34.6 28.2 42.2

86 63.3 52.2 78.2





#25

2-Butanone

Concen: 11.499 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW007776.D

Acq: 21 Dec 2018 06:30

Instrument :

MSVOA_W

ClientSampleId :

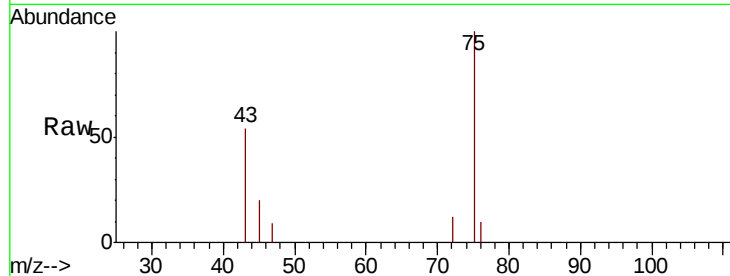
P001-SS012-0006-01

Tot Ion: 43 Resp: 1817

Ion Ratio Lower Upper

43 100

72 22.6 24.5 36.7#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

7.17

600

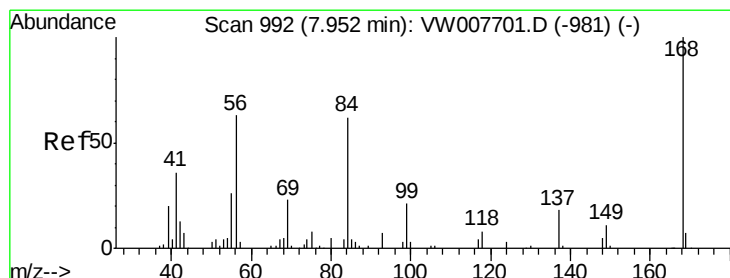
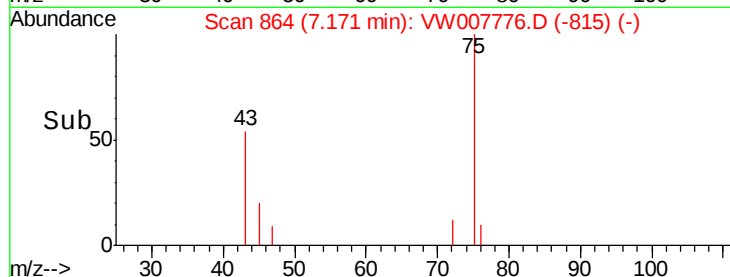
400

200

0

Time-->

7.05 7.10 7.15 7.20 7.25



#31

Cyclohexane

Concen: 1.254 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW007776.D

Acq: 21 Dec 2018 06:30

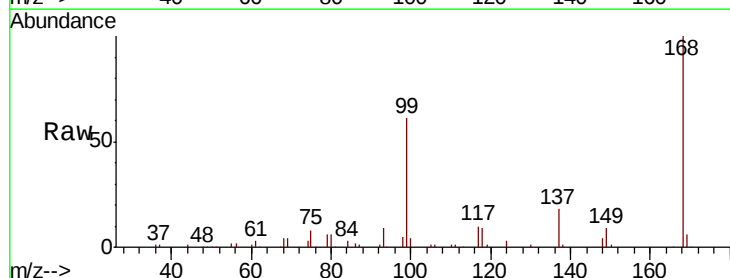
Tgt Ion: 56 Resp: 1345

Ion Ratio Lower Upper

56 100

69 164.4 29.7 44.5#

84 139.0 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

7.95

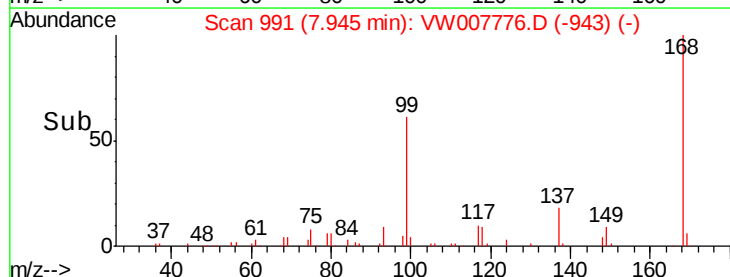
1000

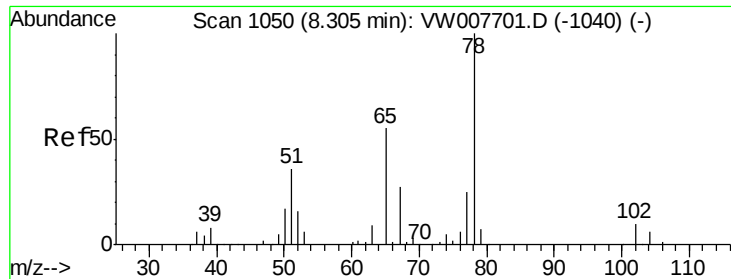
500

0

Time-->

7.90 7.95 8.00

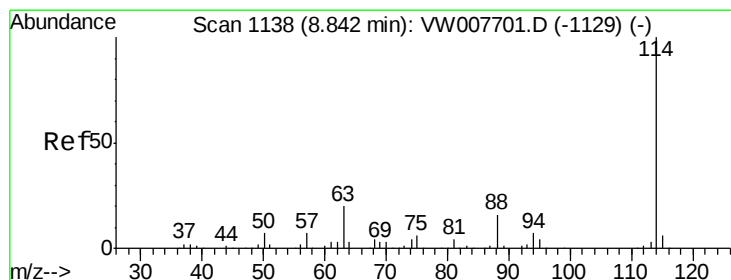
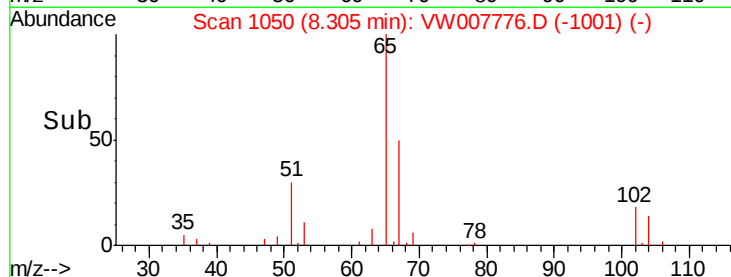
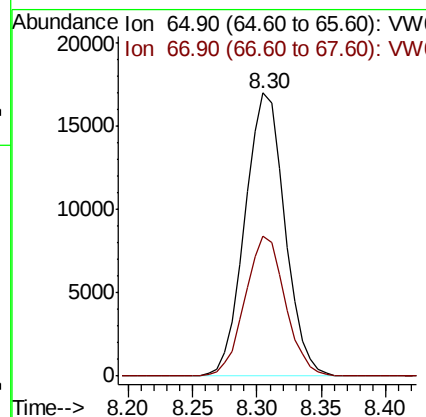
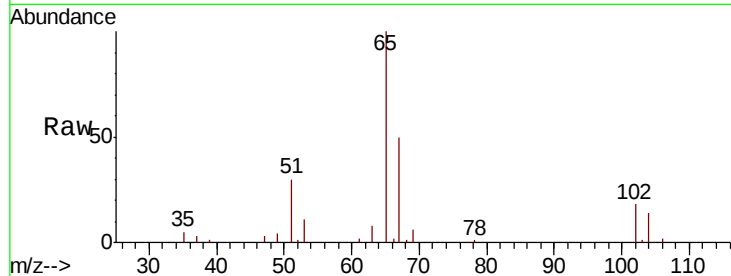




#33
 1,2-Dichloroethane-d4
 Concen: 50.646 ug/l
 RT: 8.30 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW007776.D
 Acq: 21 Dec 2018 06:30

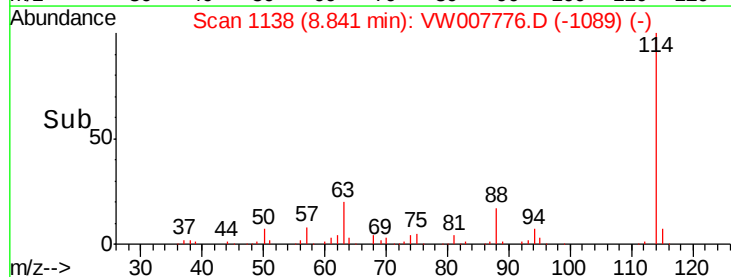
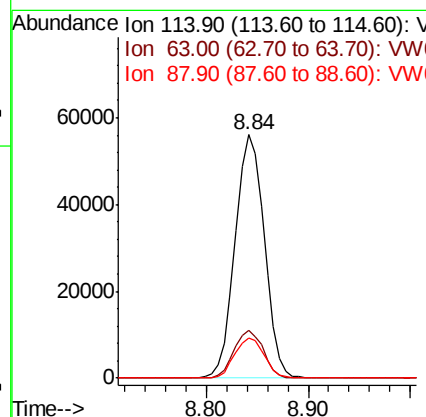
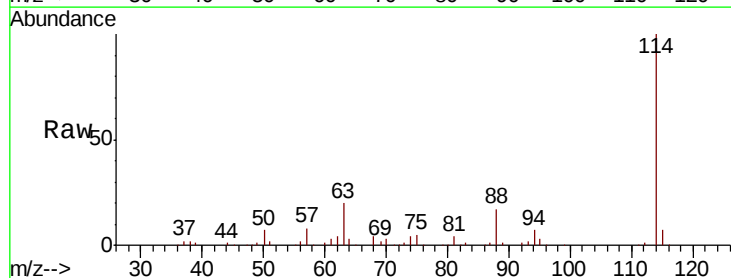
Instrument :
 MSVOA_W
 ClientSampleId :
 P001-SS012-0006-01

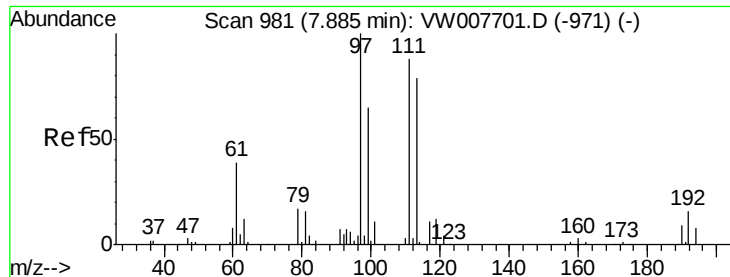
Tot Ion: 65 Resp: 36486
 Ion Ratio Lower Upper
 65 100
 67 49.6 0.0 100.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW007776.D
 Acq: 21 Dec 2018 06:30

Tgt Ion: 114 Resp: 111094
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 40.0
 88 16.6 0.0 32.6

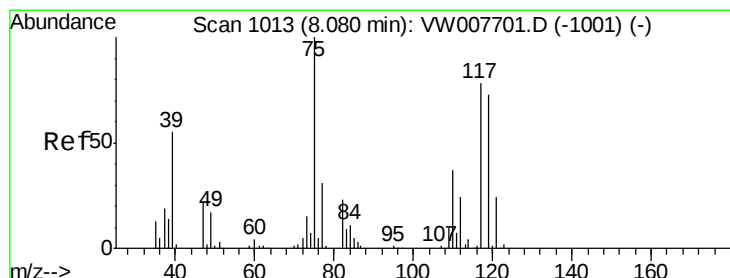
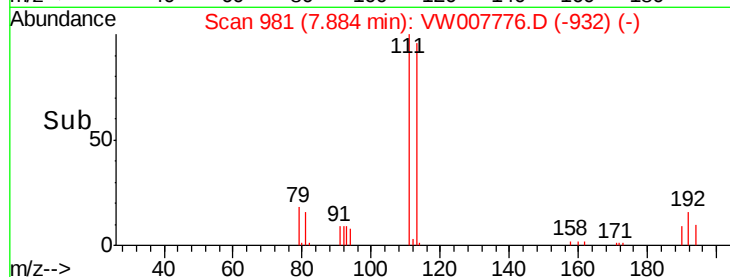
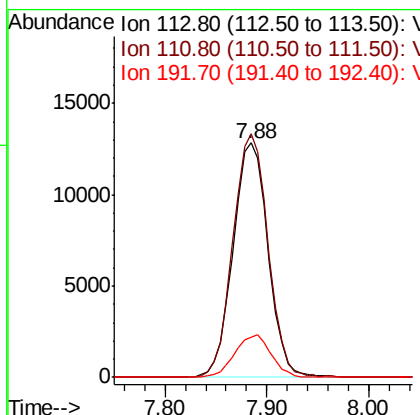
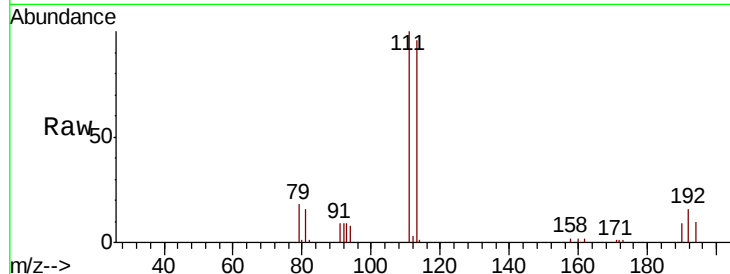




#35
 Dibromofluoromethane
 Concen: 45.092 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW007776.D
 Acq: 21 Dec 2018 06:30

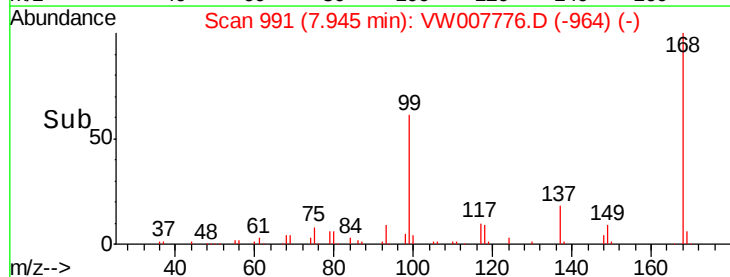
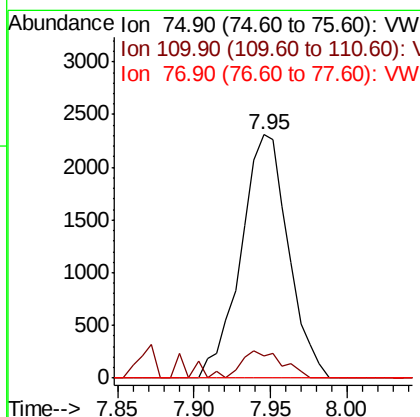
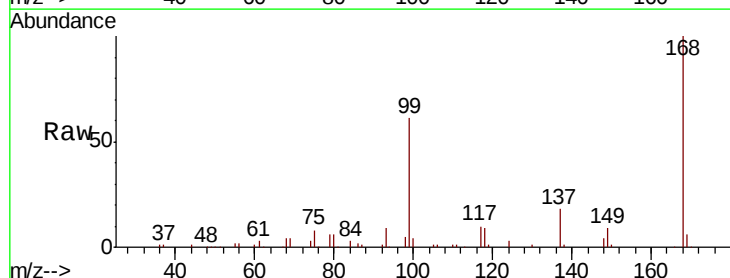
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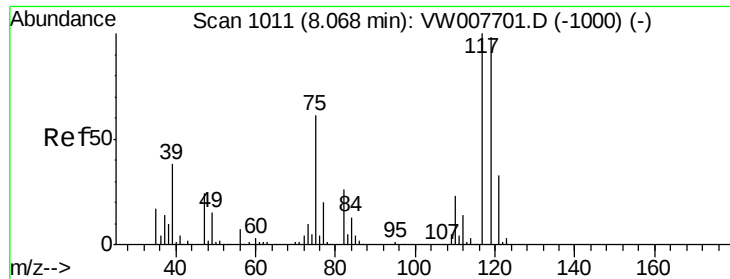
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.6	124.0
192	18.6	15.5	23.3



#36
 1,1-Dichloropropene
 Concen: 4.645 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW007776.D
 Acq: 21 Dec 2018 06:30

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.5	18.6	55.8#
77	0.0	25.0	37.4#

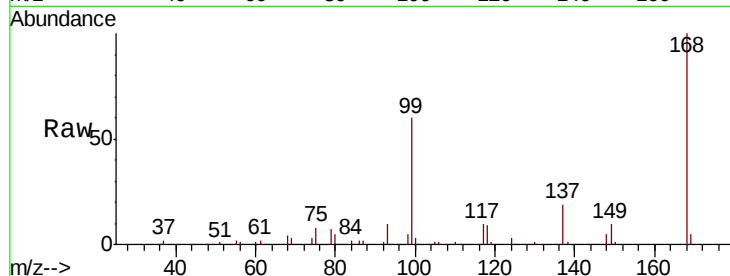




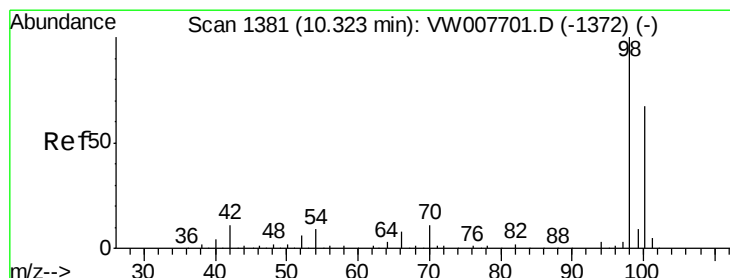
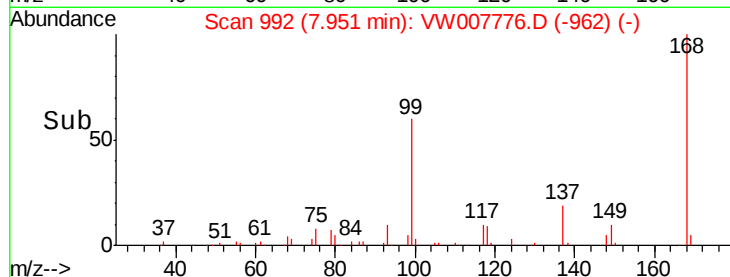
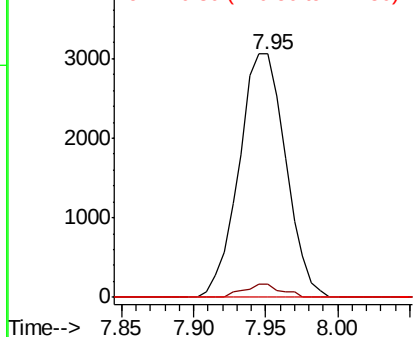
#38
Carbon Tetrachloride
Concen: 5.444 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.12 min
Lab File: VW007776.D
Acq: 21 Dec 2018 06:30

Instrument :
MSVOA_W
ClientSampleId :
P001-SS012-0006-01

Tot Ion:117 Resp: 6875
Ion Ratio Lower Upper
117 100
119 5.3 78.2 117.2#
121 0.0 26.1 39.1#

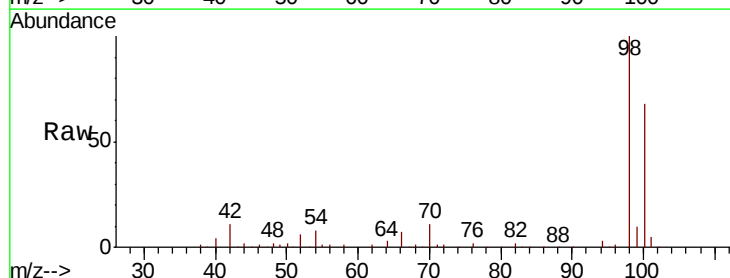


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

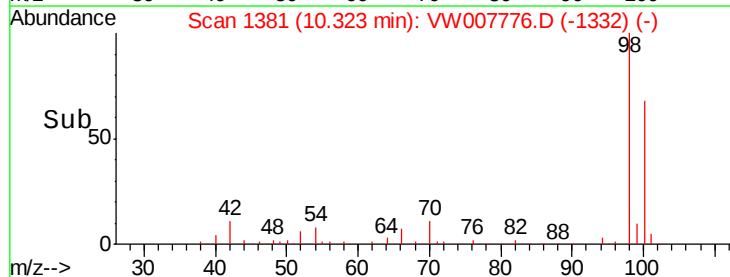
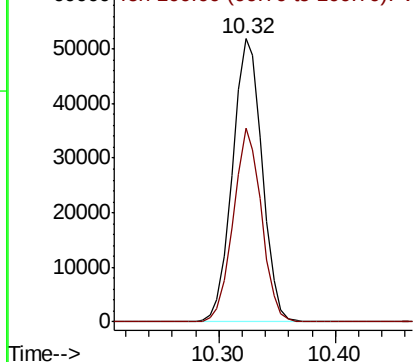


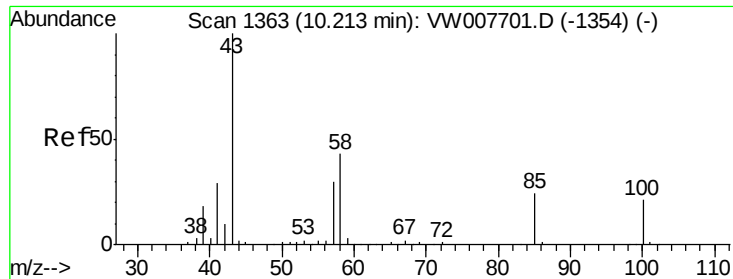
#50
Toluene-d8
Concen: 35.890 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW007776.D
Acq: 21 Dec 2018 06:30

Tgt Ion: 98 Resp: 91697
Ion Ratio Lower Upper
98 100
100 65.2 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 1.030 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.01 min

Lab File: VW007776.D

Acq: 21 Dec 2018 06:30

Instrument :

MSVOA_W

ClientSampleId :

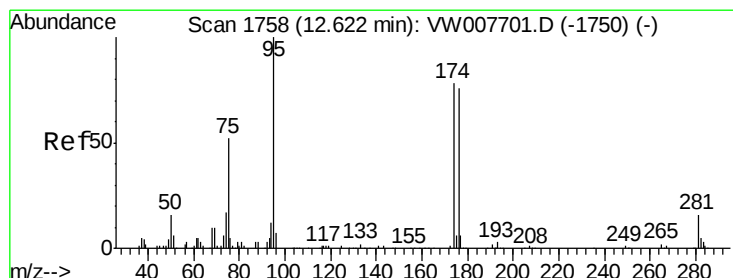
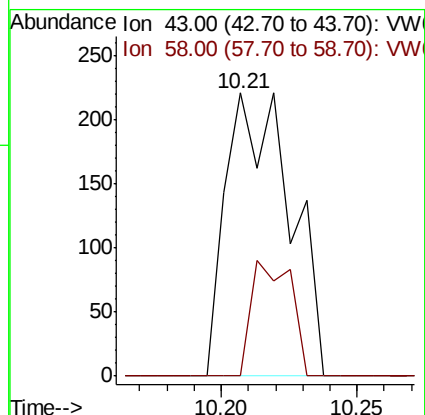
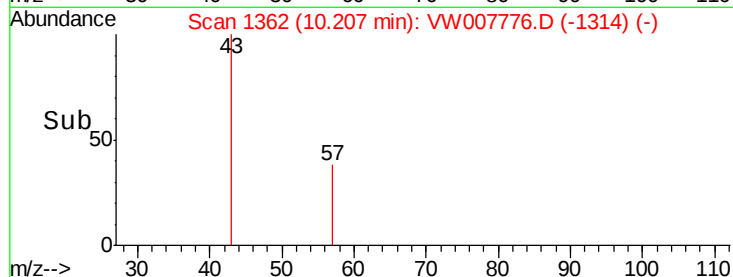
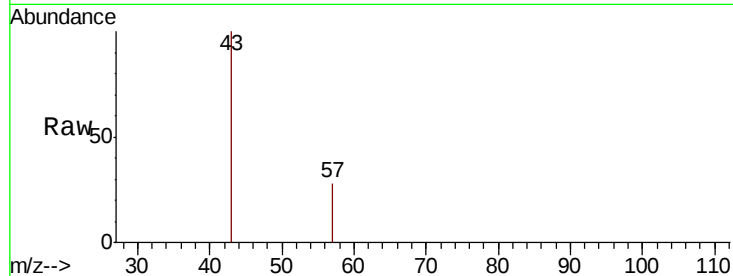
P001-SS012-0006-01

Tot Ion: 43 Resp: 361

Ion Ratio Lower Upper

43 100

58 24.9 33.2 49.8#



#62

4-Bromofluorobenzene

Concen: 26.182 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007776.D

Acq: 21 Dec 2018 06:30

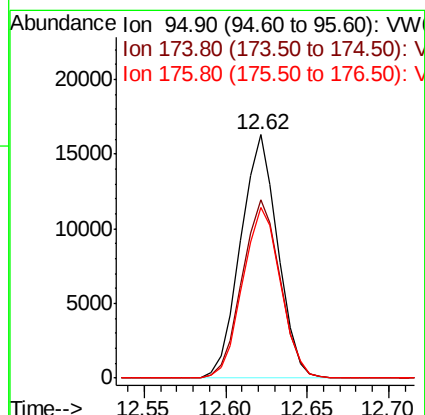
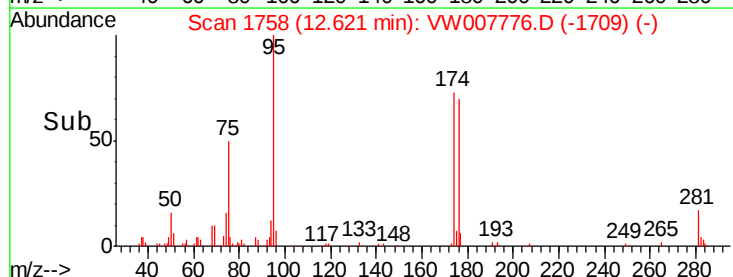
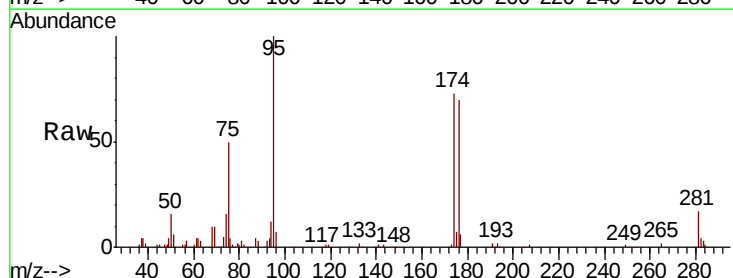
Tgt Ion: 95 Resp: 25842

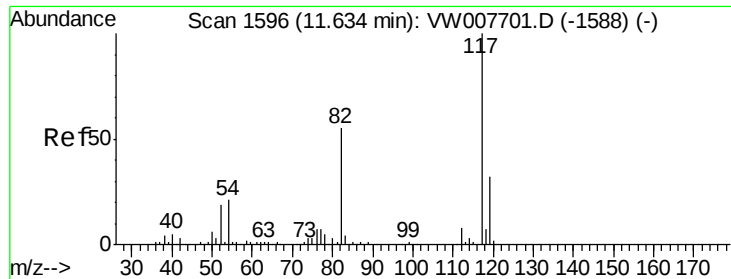
Ion Ratio Lower Upper

95 100

174 74.9 0.0 152.2

176 71.6 0.0 146.8

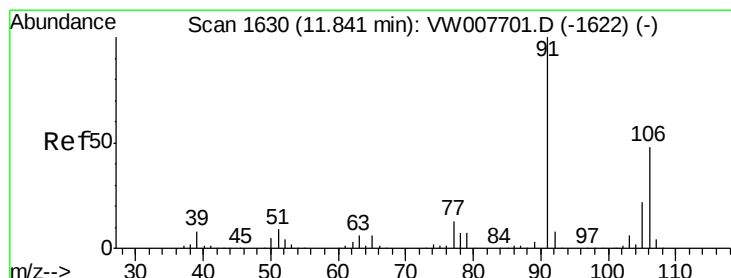
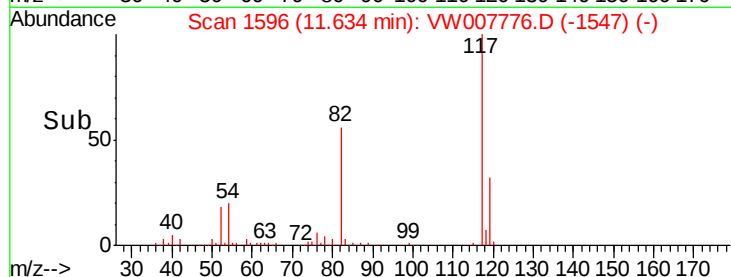
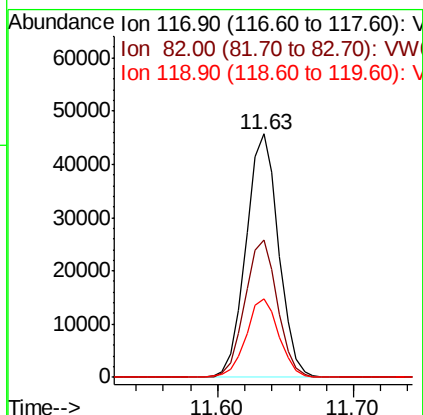
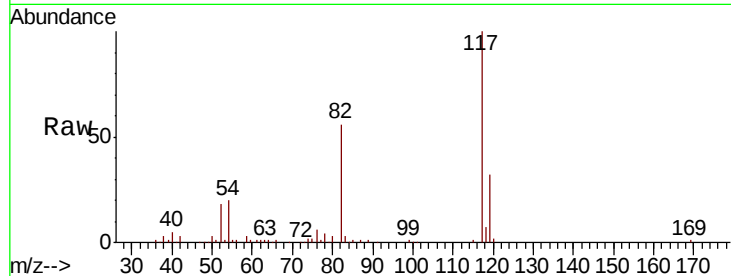




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW007776.D
Acq: 21 Dec 2018 06:30

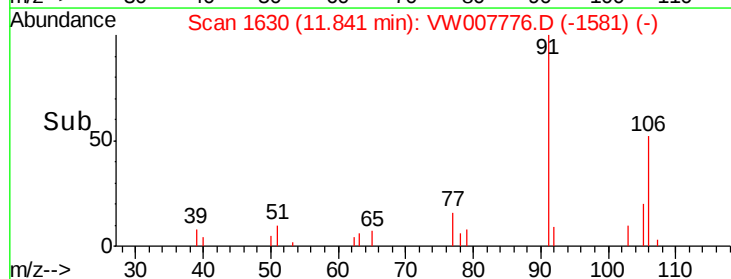
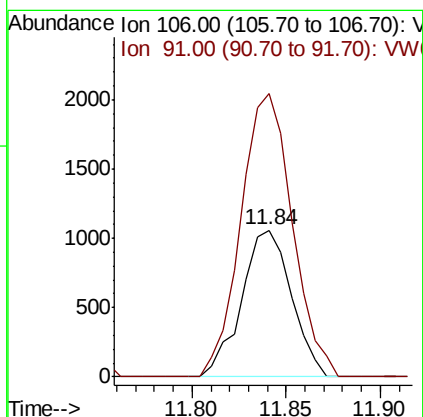
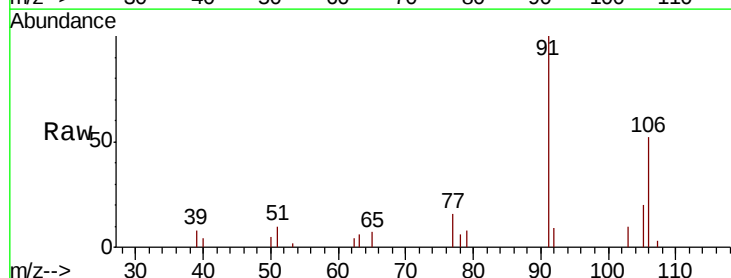
Instrument :
MSVOA_W
ClientSampleId :
P001-SS012-0006-01

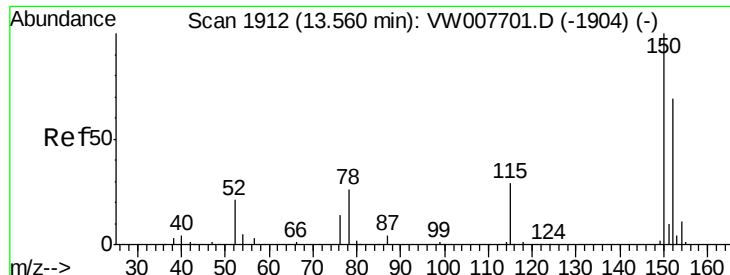
Tot Ion:117 Resp: 76569
Ion Ratio Lower Upper
117 100
82 56.2 44.3 66.5
119 31.8 25.7 38.5



#68
m/p-Xylenes
Concen: 1.763 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW007776.D
Acq: 21 Dec 2018 06:30

Tgt Ion:106 Resp: 1945
Ion Ratio Lower Upper
106 100
91 199.4 165.2 247.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW007776.D

Acq: 21 Dec 2018 06:30

Instrument :

MSVOA_W

ClientSampleId :

P001-SS012-0006-01

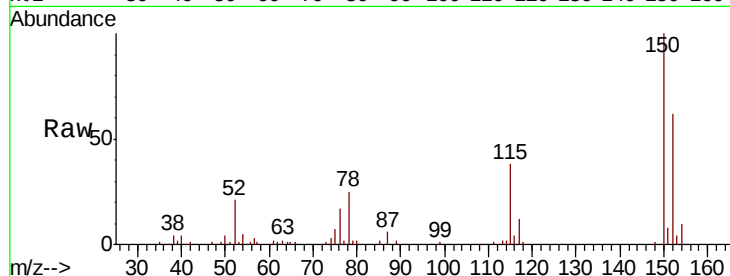
Tot Ion:152 Resp: 22256

Ion Ratio Lower Upper

152 100

115 63.3 31.8 95.4

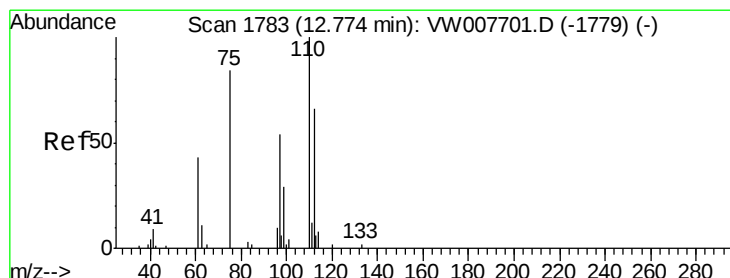
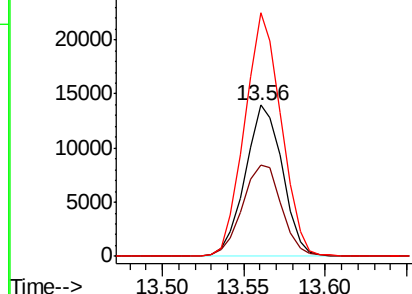
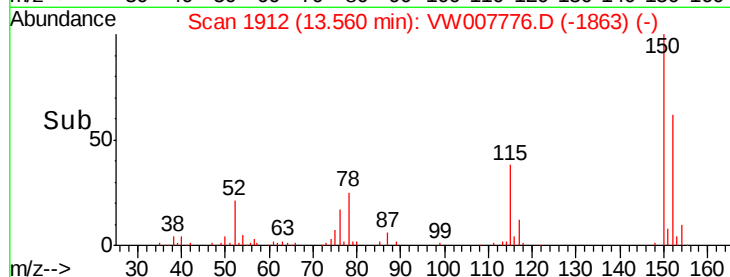
150 157.9 0.0 350.8



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: 75.178 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW007776.D

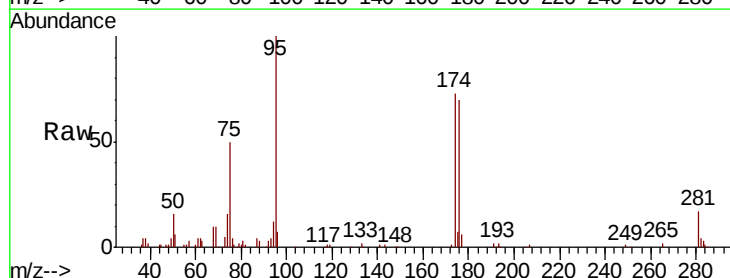
Acq: 21 Dec 2018 06:30

Tgt Ion: 75 Resp: 12932

Ion Ratio Lower Upper

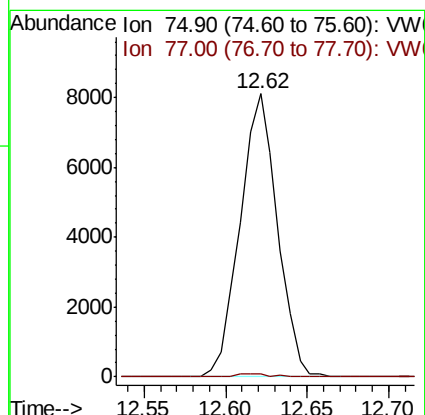
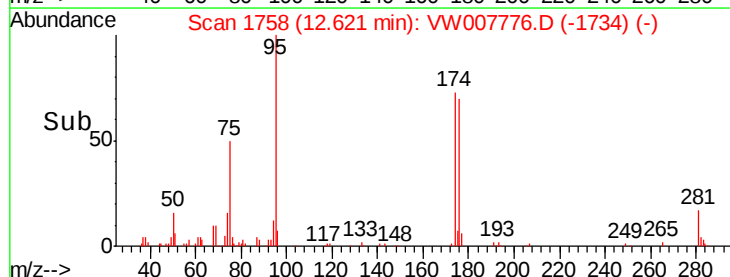
75 100

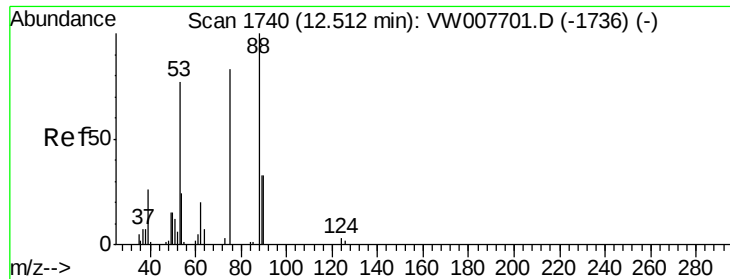
77 0.9 0.0 0.0#



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: 157.804 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW007776.D

Acq: 21 Dec 2018 06:30

Instrument :

MSVOA_W

ClientSampleId :

P001-SS012-0006-01

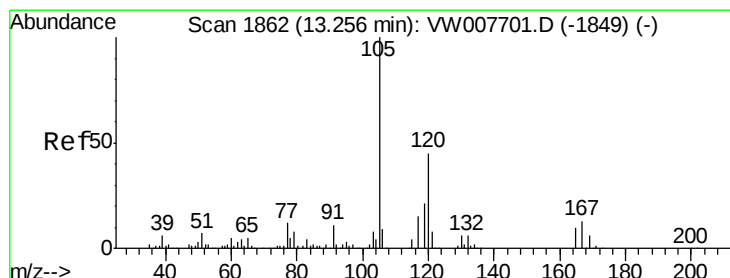
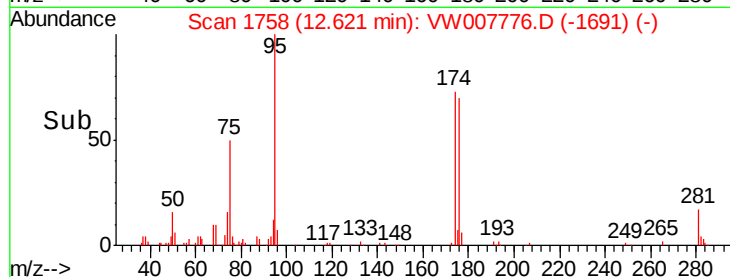
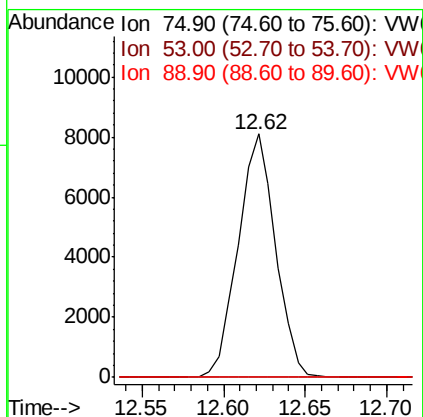
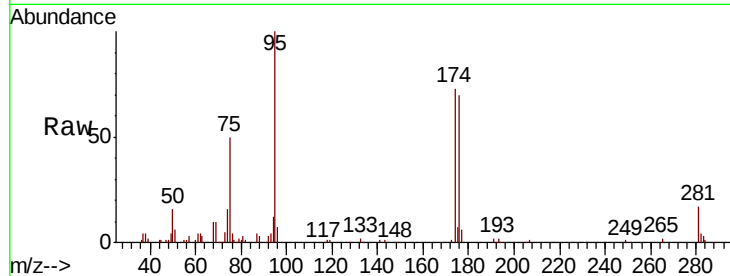
Tot Ion: 75 Resp: 12932

Ion Ratio Lower Upper

75 100

53 0.0 80.2 120.2#

89 0.0 39.2 58.8#



#84

1,2,4-Trimethylbenzene

Concen: 1.695 ug/l

RT: 13.26 min Scan# 1863

Delta R.T. 0.01 min

Lab File: VW007776.D

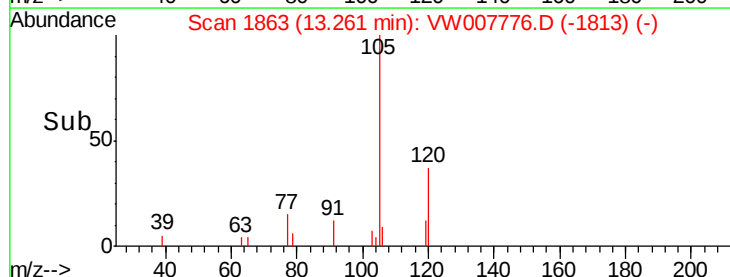
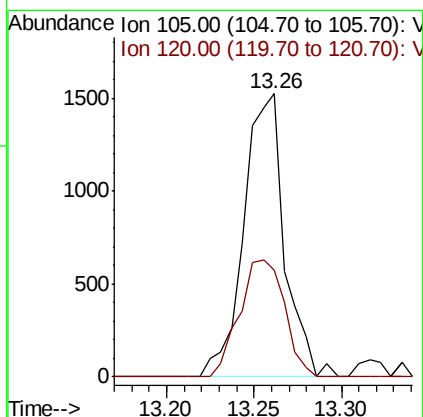
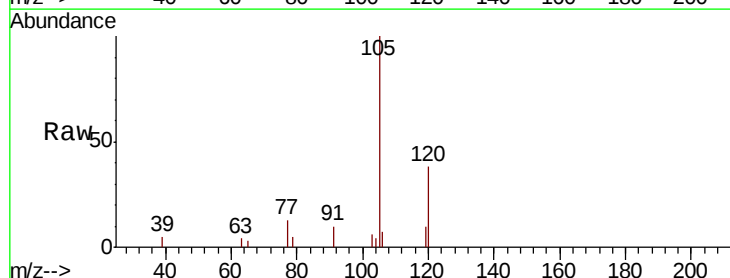
Acq: 21 Dec 2018 06:30

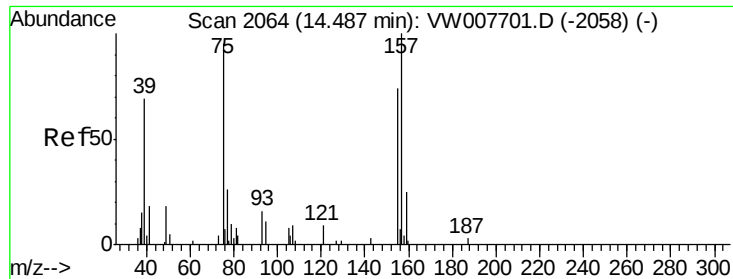
Tgt Ion: 105 Resp: 2482

Ion Ratio Lower Upper

105 100

120 45.8 22.0 66.0





#92

1,2-Dibromo-3-Chloropropane

Concen: 4.749 ug/l

RT: 14.34 min Scan# 2040

Delta R.T. -0.15 min

Lab File: VW007776.D

Acq: 21 Dec 2018 06:30

Instrument :

MSVOA_W

ClientSampleId :

P001-SS012-0006-01

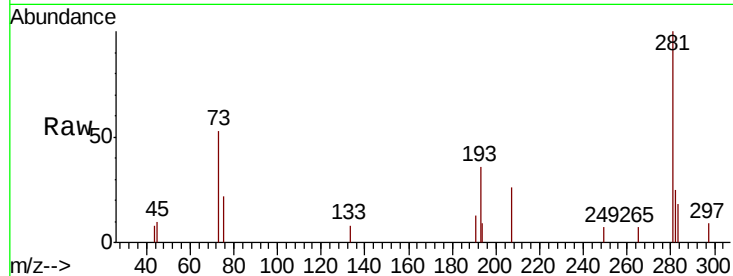
Tot Ion: 75 Resp: 246

Ion Ratio Lower Upper

75 100

155 0.0 39.4 118.1#

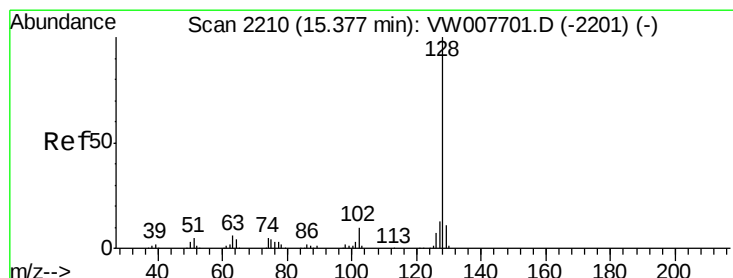
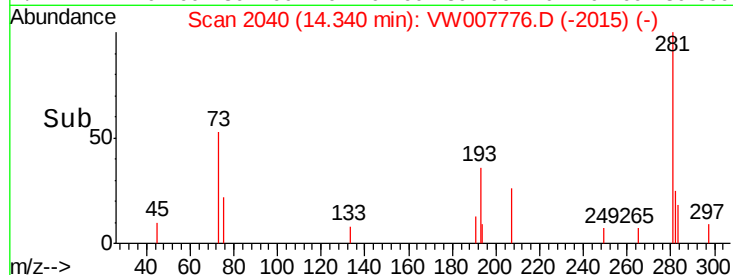
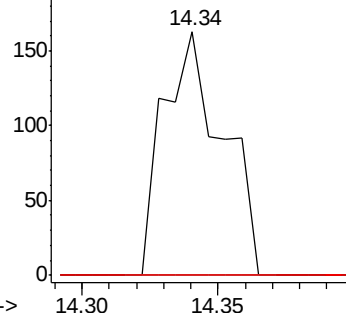
157 0.0 52.0 156.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: 2.247 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. -0.00 min

Lab File: VW007776.D

Acq: 21 Dec 2018 06:30

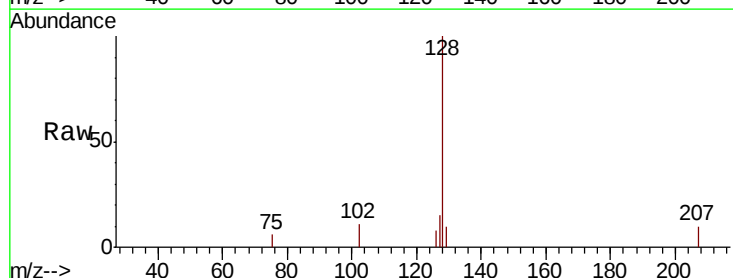
Tgt Ion: 128 Resp: 1976

Ion Ratio Lower Upper

128 100

127 10.6 10.7 16.1#

129 7.8 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

