

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV122218\
 Data File : VW007782.D
 Acq On : 21 Dec 2018 09:06
 Operator : SY/AP
 Sample : J6389-07
 Misc : 5.93G/5ML/MSVOA W/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 P001-SS013-1218-01

Quant Time: Dec 21 10:08:06 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	69212	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	115334	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	78007	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	23691	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	38237	50.41	ug/l	0.00
Spiked Amount			Recovery	=	100.82%	
35) Dibromofluoromethane	7.88	113	32110	45.64	ug/l	0.00
Spiked Amount			Recovery	=	91.28%	
50) Toluene-d8	10.32	98	89340	33.68	ug/l	0.00
Spiked Amount			Recovery	=	67.36%	
62) 4-Bromofluorobenzene	12.62	95	25559	24.94	ug/l	0.00
Spiked Amount			Recovery	=	49.88%	

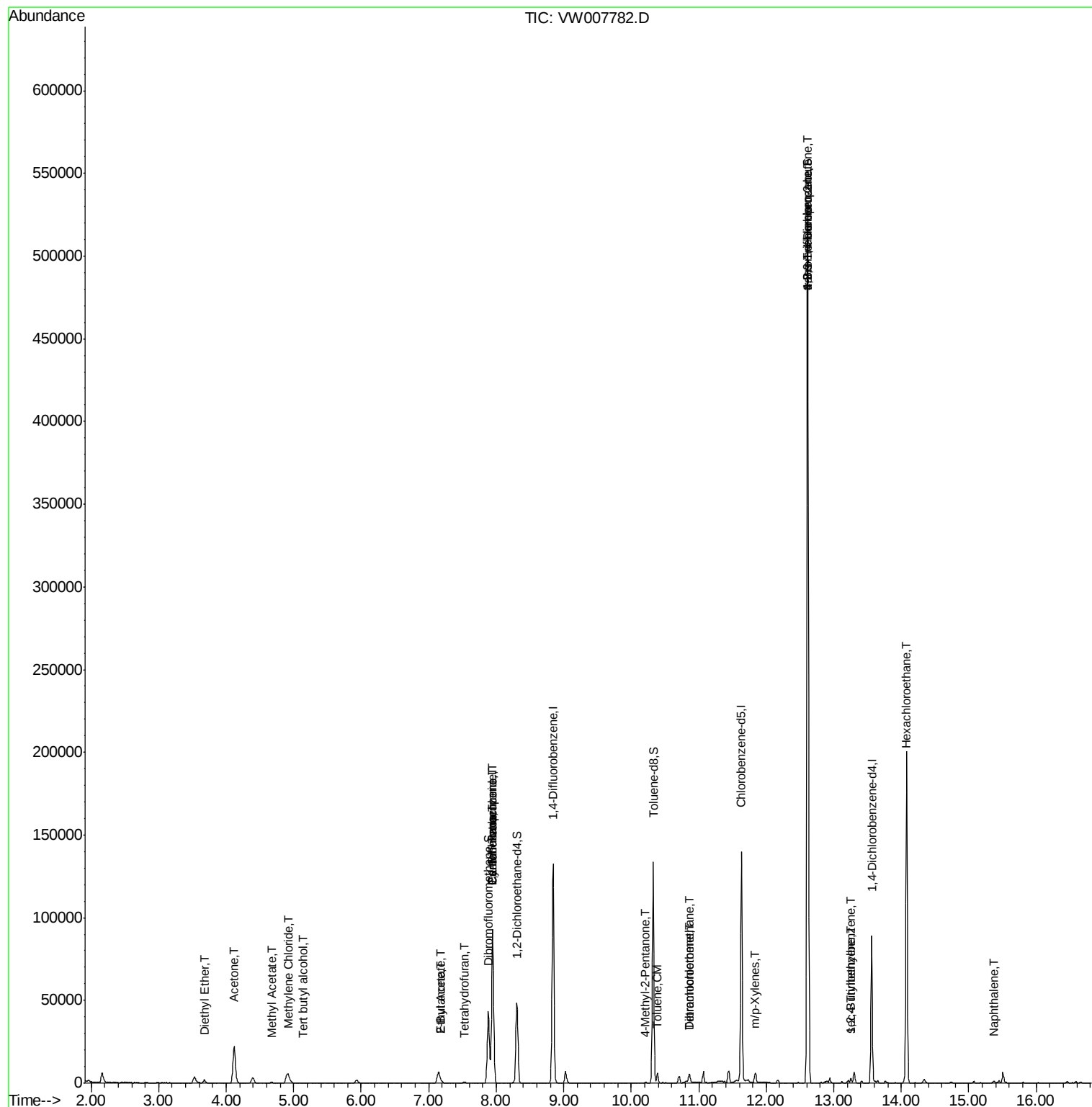
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.68	74	989	3.225	ug/l	92
11) Tert butyl alcohol	5.15	59	270	5.276	ug/l #	73
16) Acetone	4.12	43	37901	266.807	ug/l	95
18) Methyl Acetate	4.68	43	1348	3.990	ug/l #	71
20) Methylene Chloride	4.91	84	6029	2.496	ug/l	96
25) 2-Butanone	7.18	43	1919	11.533	ug/l #	87
29) Tetrahydrofuran	7.52	42	276	2.781	ug/l #	74
31) Cyclohexane	7.94	56	1362	1.206	ug/l #	20
36) 1,1-Dichloropropene	7.95	75	5120	4.599	ug/l #	48
37) Ethyl Acetate	7.18	43	1919	4.995	ug/l #	68
38) Carbon Tetrachloride	7.95	117	7156	5.458	ug/l #	16
51) 4-Methyl-2-Pentanone	10.21	43	467	1.284	ug/l	89
52) Toluene	10.38	92	2751	1.380	ug/l	92
60) Dibromochloromethane	10.86	129	1007	1.360	ug/l #	11
64) Tetrachloroethene	10.86	164	1160	2.100	ug/l #	88
68) m/p-Xylenes	11.84	106	1683	1.497	ug/l	89
76) 1,2,3-Trichloropropane	12.62	75	16718	91.301	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	16718	191.647	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.26	105	2085	1.338	ug/l	89
85) sec-Butylbenzene	13.26	105	2085	1.116	ug/l #	56
90) Hexachloroethane	14.07	117	336	1.127	ug/l #	13
95) Naphthalene	15.37	128	1559	1.665	ug/l #	95

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

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QLast Update : Thu Dec 20 06:30:23 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW007782.D

Acq: 21 Dec 2018 09:06

Instrument :

MSVOA_W

ClientSampleId :

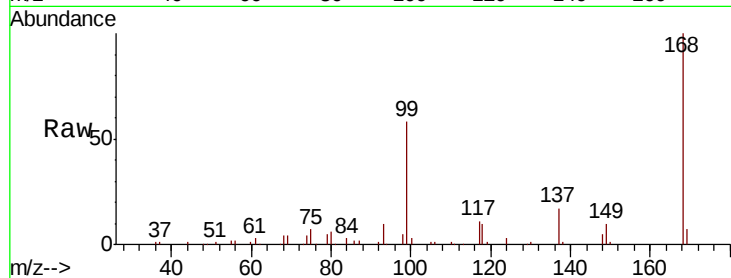
P001-SS013-1218-01

Tot Ion:168 Resp: 69212

Ion Ratio Lower Upper

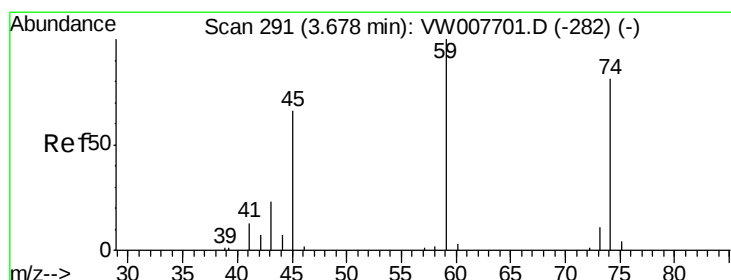
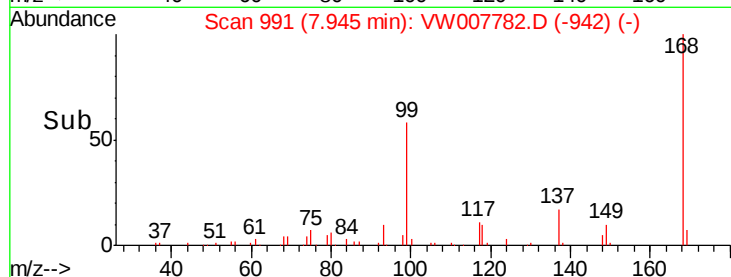
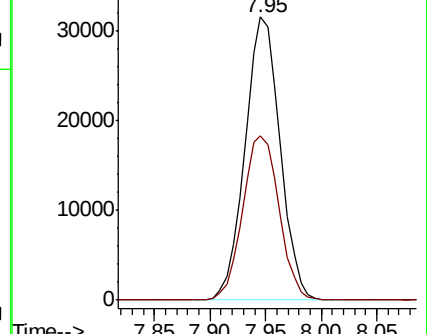
168 100

99 58.1 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: 3.225 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW007782.D

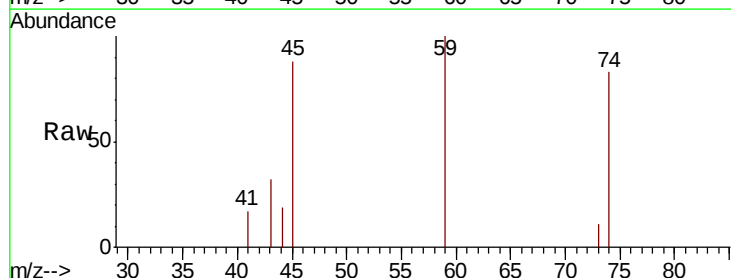
Acq: 21 Dec 2018 09:06

Tgt Ion: 74 Resp: 989

Ion Ratio Lower Upper

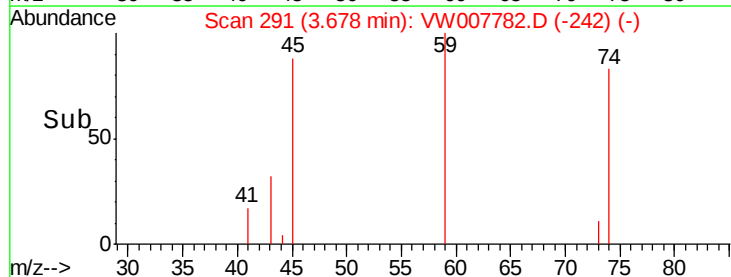
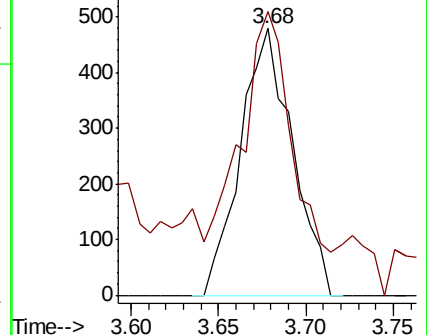
74 100

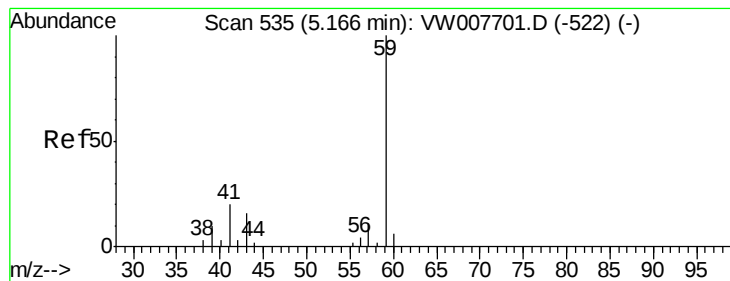
45 85.6 39.4 118.1



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



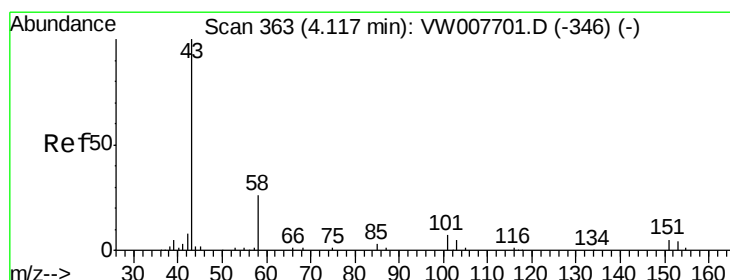
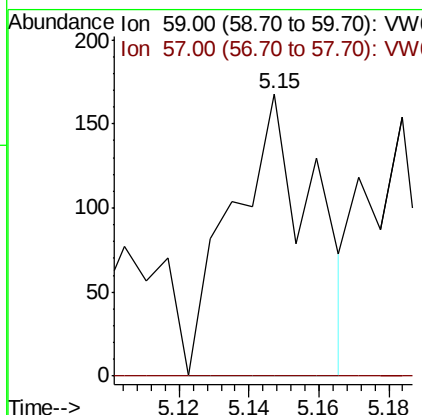
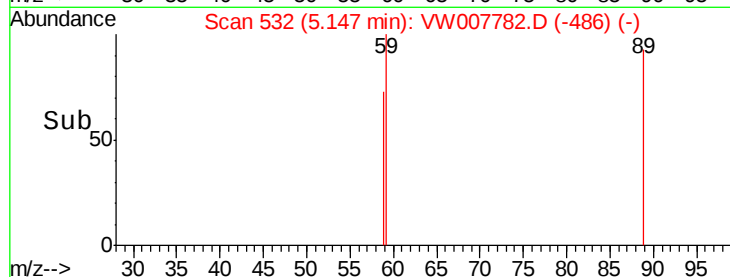
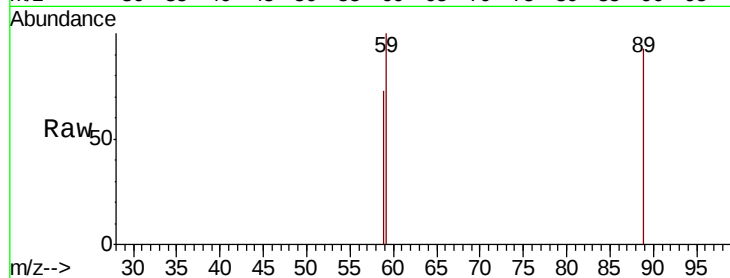


#11

Tert butyl alcohol
 Concen: 5.276 ug/l
 RT: 5.15 min Scan# 532
 Delta R.T. -0.02 min
 Lab File: VW007782.D
 Acq: 21 Dec 2018 09:06

Instrument :
 MSVOA_W
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 P001-SS013-1218-01

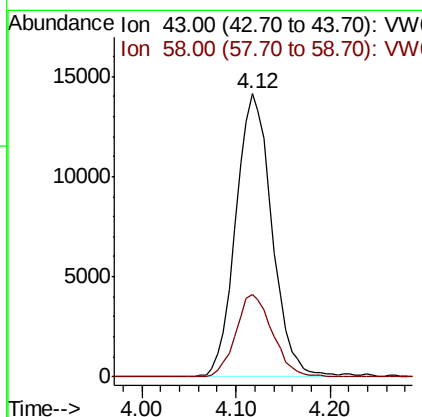
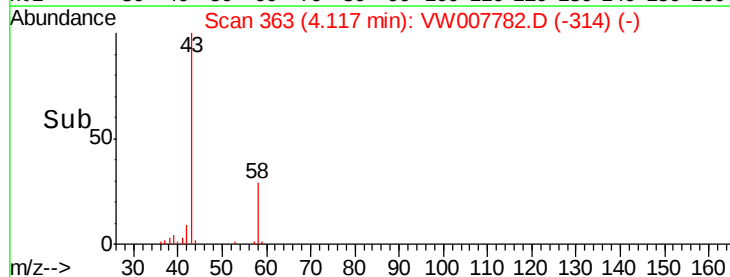
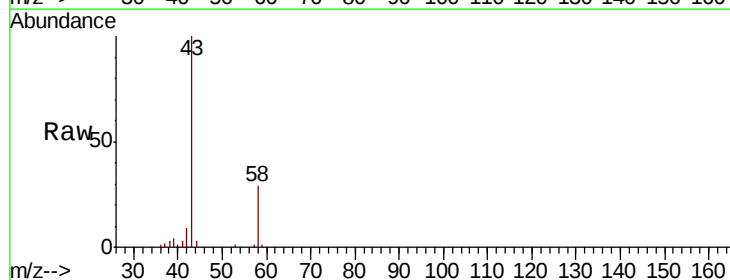
Tot Ion: 59 Resp: 270
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#

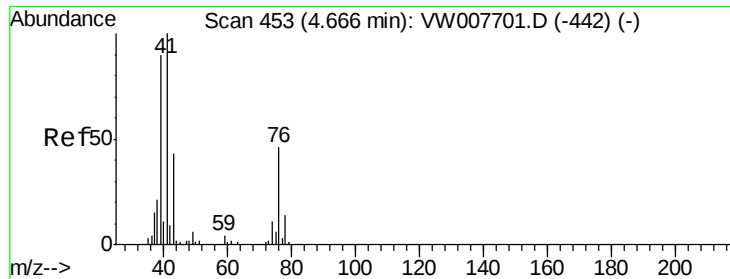


#16

Acetone
 Concen: 266.807 ug/l
 RT: 4.12 min Scan# 363
 Delta R.T. -0.00 min
 Lab File: VW007782.D
 Acq: 21 Dec 2018 09:06

Tgt Ion: 43 Resp: 37901
 Ion Ratio Lower Upper
 43 100
 58 29.0 21.2 31.8

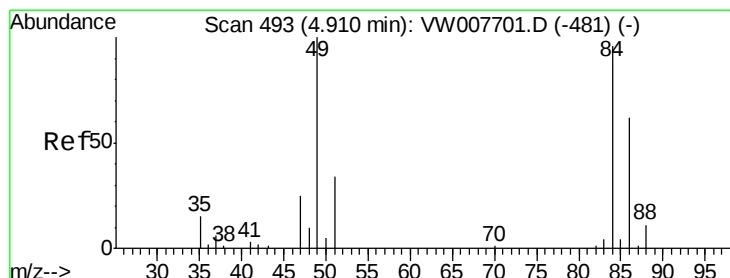
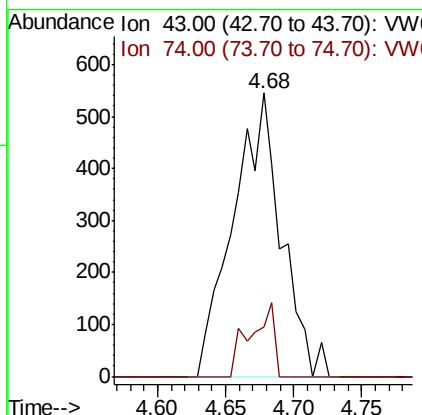
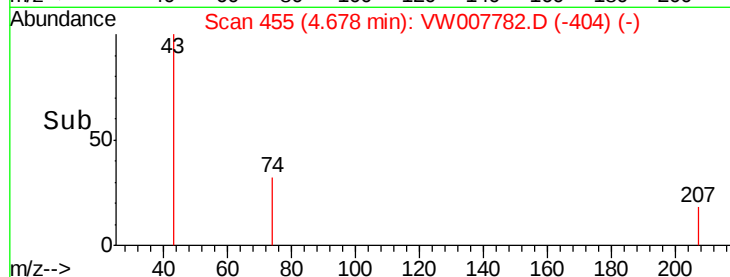
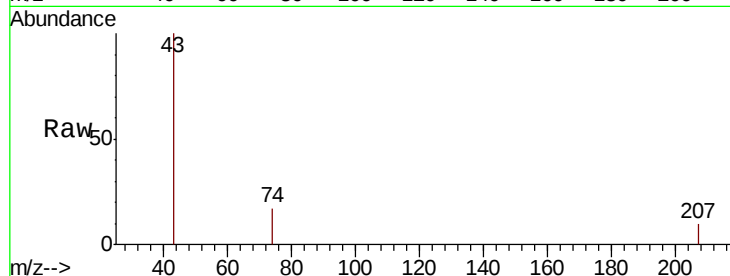




#18
Methyl Acetate
Concen: 3.990 ug/l
RT: 4.68 min Scan# 455
Delta R.T. 0.01 min
Lab File: VW007782.D
Acq: 21 Dec 2018 09:06

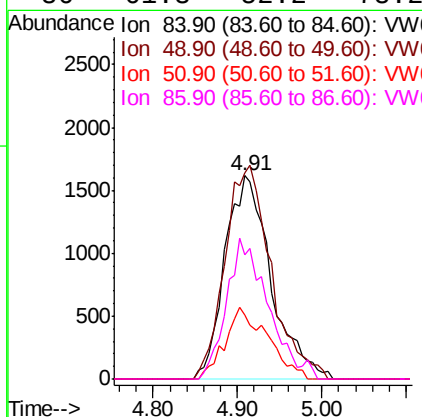
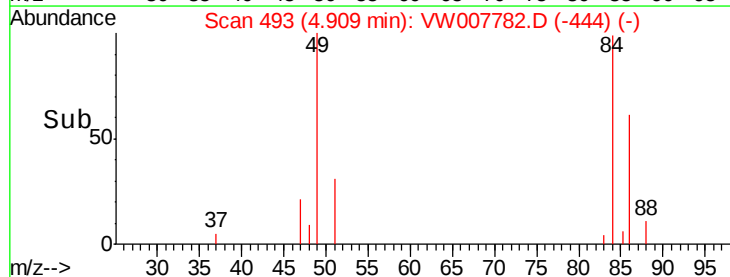
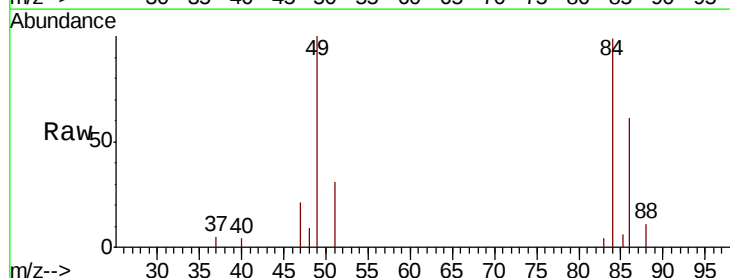
Instrument :
MSVOA_W
ClientSampleId :
P001-SS013-1218-01

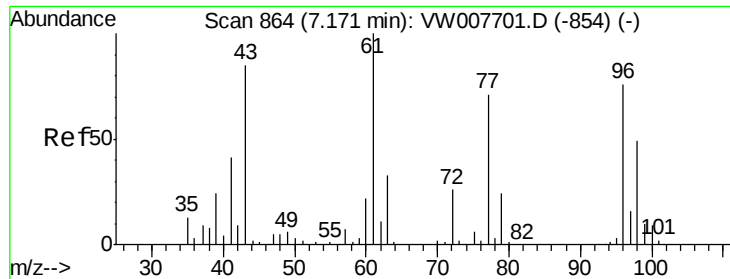
Tot Ion: 43 Resp: 1348
Ion Ratio Lower Upper
43 100
74 13.1 22.7 34.1#



#20
Methylene Chloride
Concen: 2.496 ug/l
RT: 4.91 min Scan# 493
Delta R.T. 0.00 min
Lab File: VW007782.D
Acq: 21 Dec 2018 09:06

Tgt Ion: 84 Resp: 6029
Ion Ratio Lower Upper
84 100
49 101.2 83.7 125.5
51 31.5 28.2 42.2
86 61.3 52.2 78.2

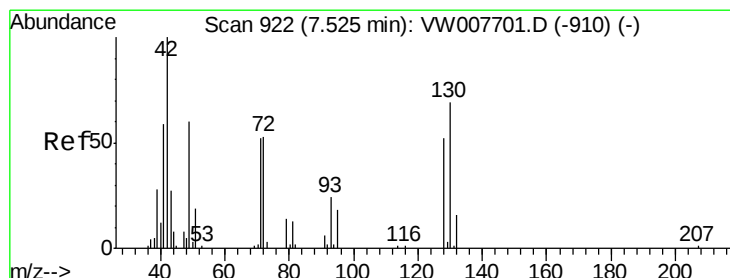
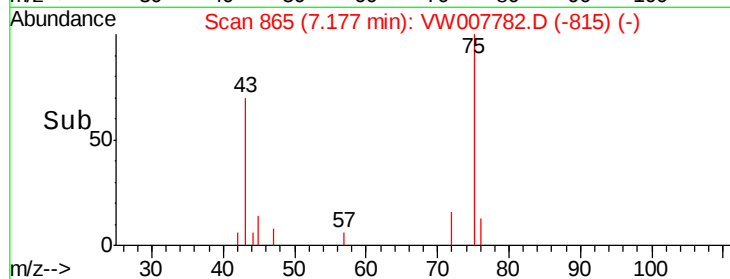
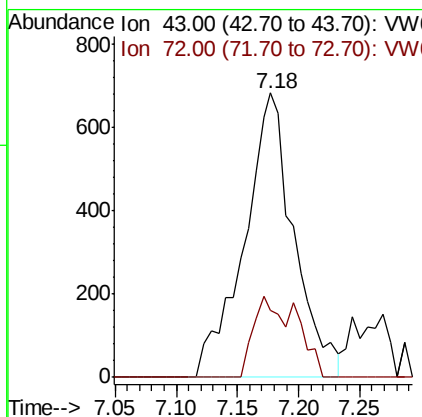
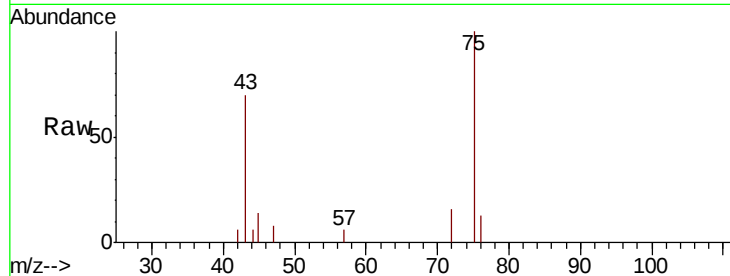




#25
 2-Butanone
 Concen: 11.533 ug/l
 RT: 7.18 min Scan# 865
 Delta R.T. 0.01 min
 Lab File: VW007782.D
 Acq: 21 Dec 2018 09:06

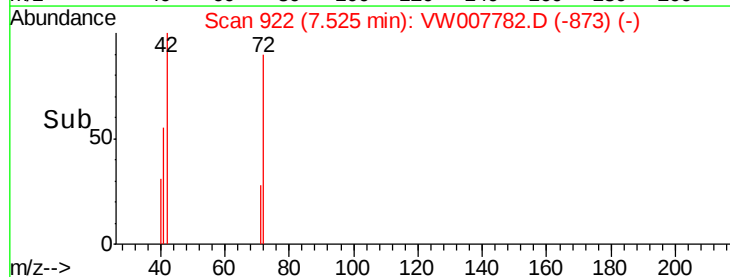
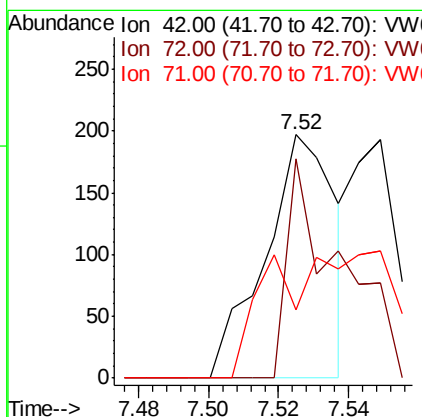
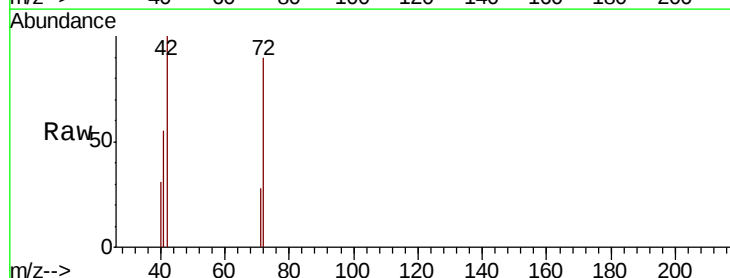
Instrument :
 MSVOA_W
 ClientSampleId :
 P001-SS013-1218-01

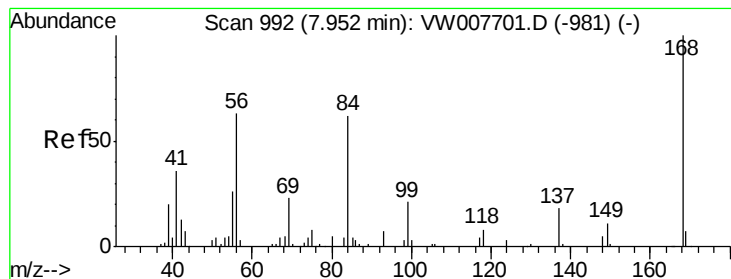
Tot Ion: 43 Resp: 1919
 Ion Ratio Lower Upper
 43 100
 72 23.3 24.5 36.7#



#29
 Tetrahydrofuran
 Concen: 2.781 ug/l
 RT: 7.52 min Scan# 922
 Delta R.T. -0.00 min
 Lab File: VW007782.D
 Acq: 21 Dec 2018 09:06

Tgt Ion: 42 Resp: 276
 Ion Ratio Lower Upper
 42 100
 72 68.8 41.7 62.5#
 71 29.0 39.0 58.6#





#31

Cyclohexane

Concen: 1.206 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW007782.D

Acq: 21 Dec 2018 09:06

Instrument :

MSVOA_W

ClientSampleId :

P001-SS013-1218-01

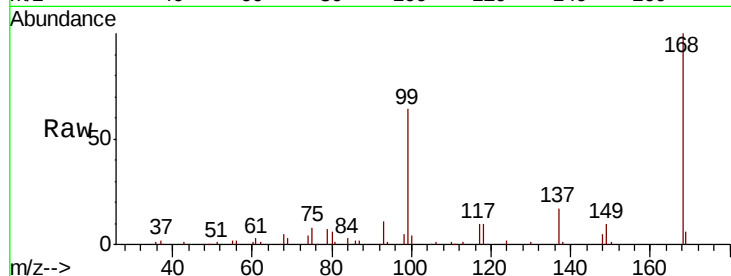
Tot Ion: 56 Resp: 1362

Ion Ratio Lower Upper

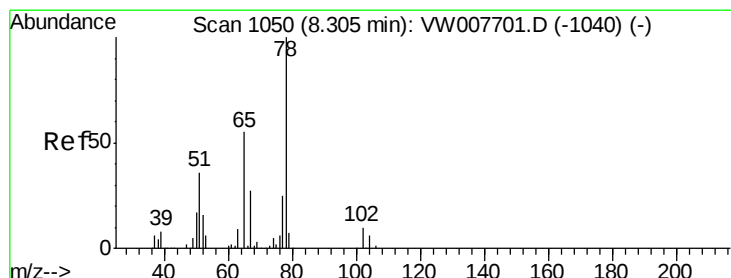
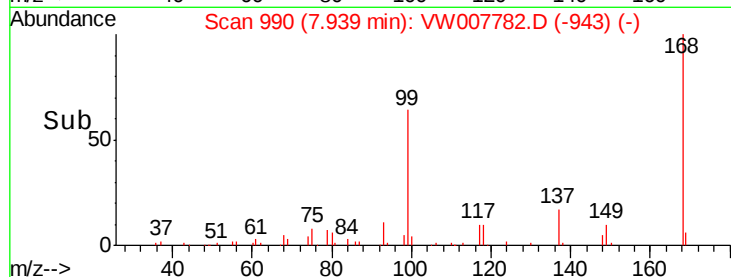
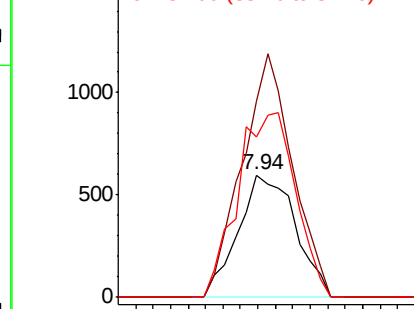
56 100

69 159.6 29.7 44.5#

84 131.4 78.9 118.3#



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



#33

1,2-Dichloroethane-d4

Concen: 50.405 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW007782.D

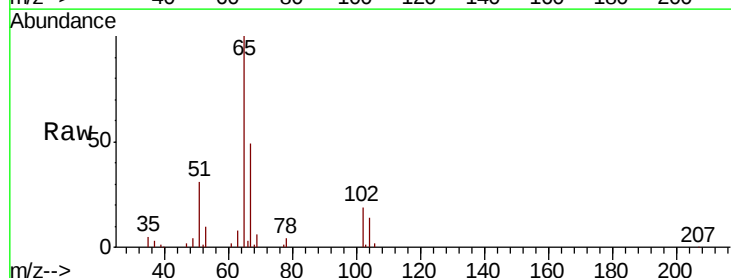
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Tgt Ion: 65 Resp: 38237

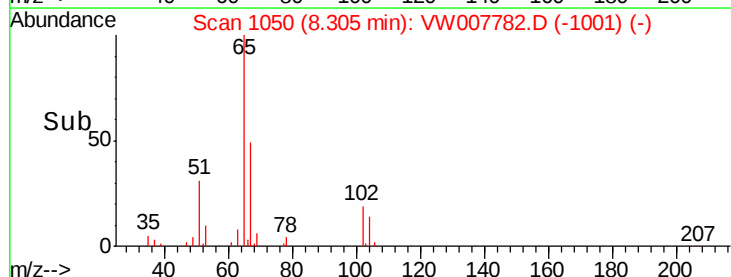
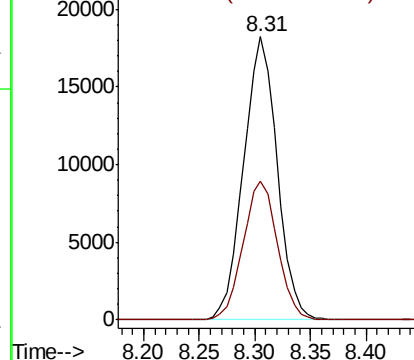
Ion Ratio Lower Upper

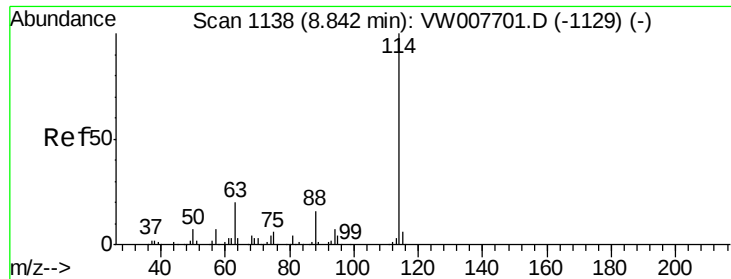
65 100

67 50.2 0.0 100.6



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: VW007782.D

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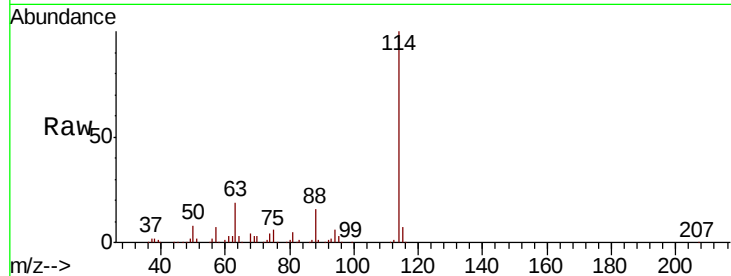
Tot Ion:114 Resp: 115334

Ion Ratio Lower Upper

114 100

63 19.1 0.0 40.0

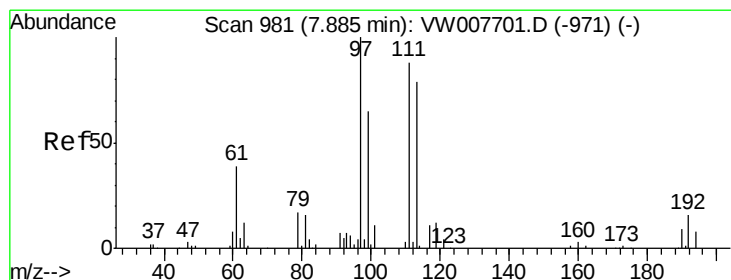
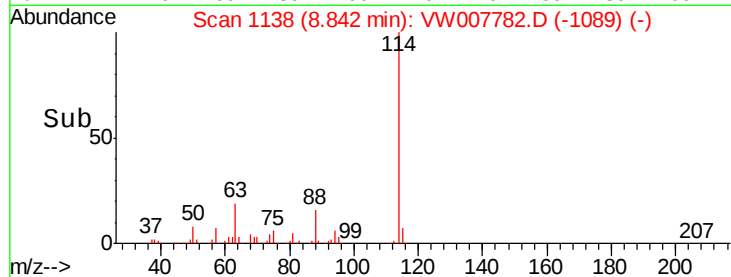
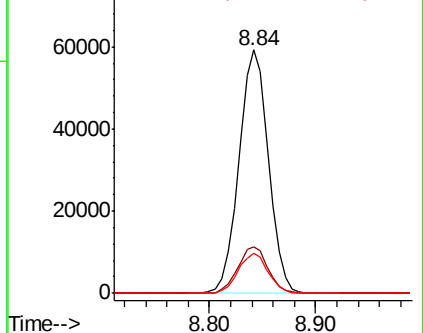
88 16.5 0.0 32.6



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



#35

Dibromofluoromethane

Concen: 45.637 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW007782.D

Acq: 21 Dec 2018 09:06

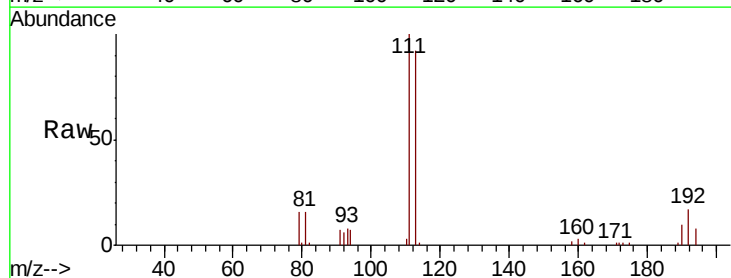
Tgt Ion:113 Resp: 32110

Ion Ratio Lower Upper

113 100

111 104.0 82.6 124.0

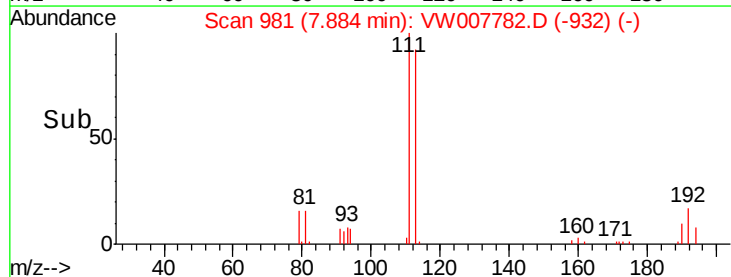
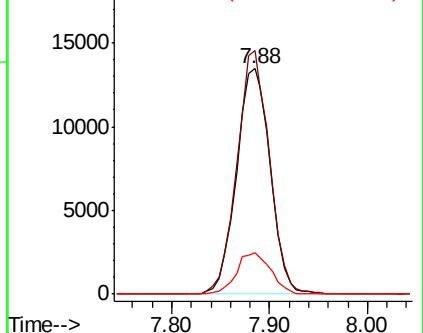
192 18.7 15.5 23.3

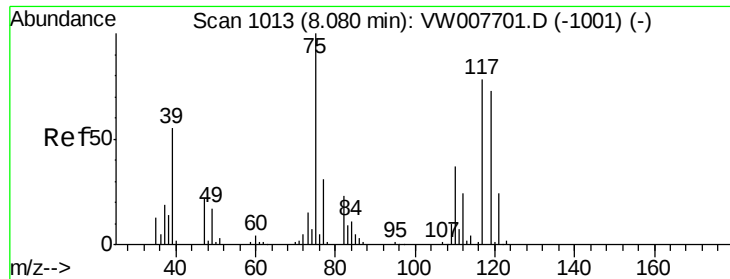


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.599 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW007782.D

Acq: 21 Dec 2018 09:06

Instrument :

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P001-SS013-1218-01

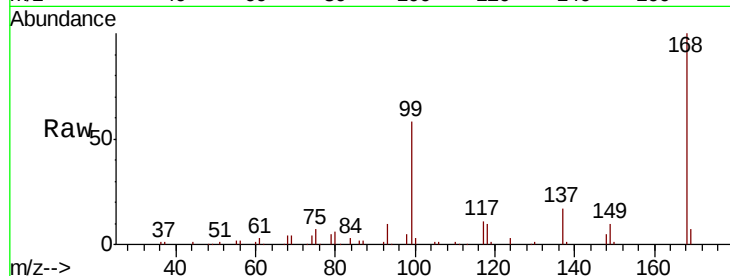
Tot Ion: 75 Resp: 5120

Ion Ratio Lower Upper

75 100

110 8.3 18.6 55.8#

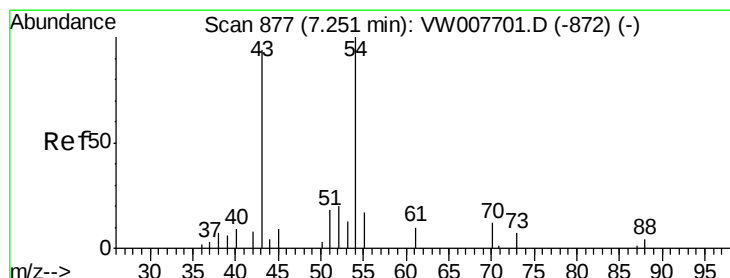
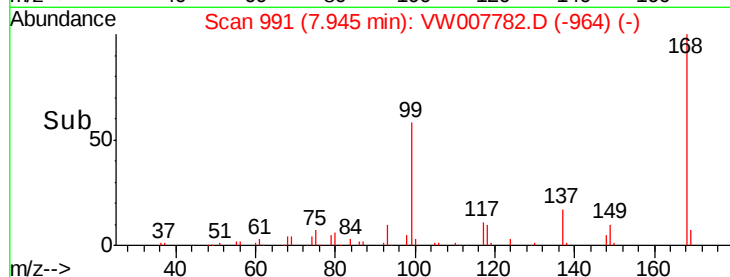
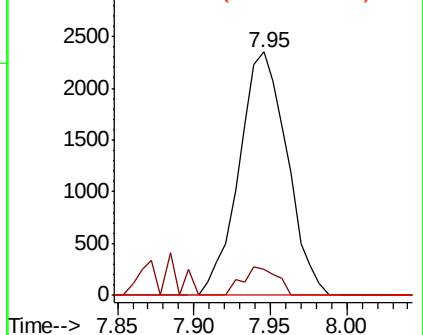
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): VW

Ion 76.90 (76.60 to 77.60): VW



#37

Ethyl Acetate

Concen: 4.995 ug/l

RT: 7.18 min Scan# 865

Delta R.T. -0.07 min

Lab File: VW007782.D

Acq: 21 Dec 2018 09:06

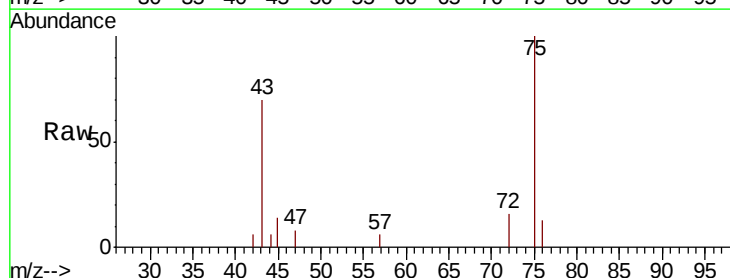
Tgt Ion: 43 Resp: 1919

Ion Ratio Lower Upper

43 100

61 0.0 11.2 16.8#

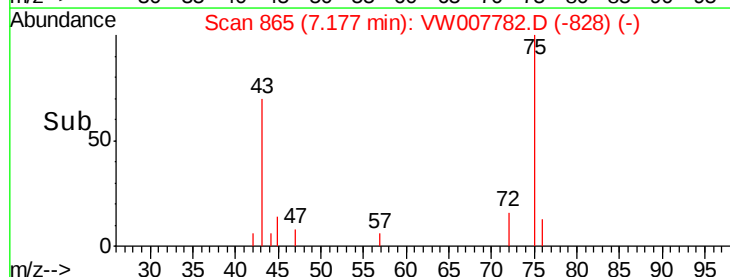
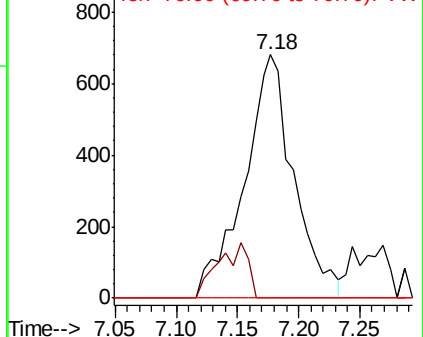
70 0.0 9.3 13.9#

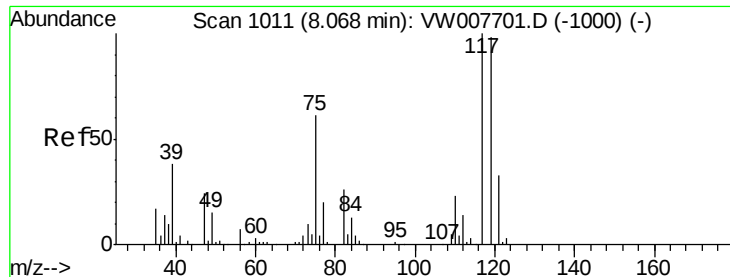


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 70.00 (69.70 to 70.70): VW





#38

Carbon Tetrachloride

Concen: 5.458 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW007782.D

Acq: 21 Dec 2018 09:06

Instrument :

MSVOA_W

ClientSampleId :

P001-SS013-1218-01

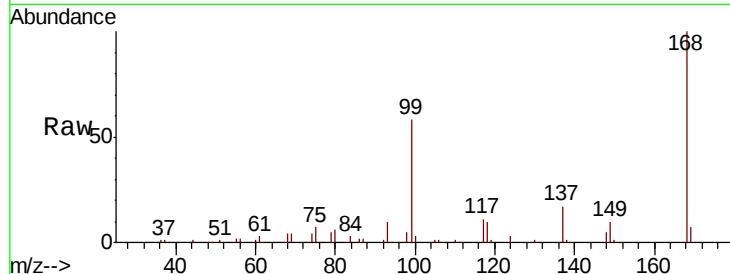
Tot Ion:117 Resp: 7156

Ion Ratio Lower Upper

117 100

119 5.9 78.2 117.2#

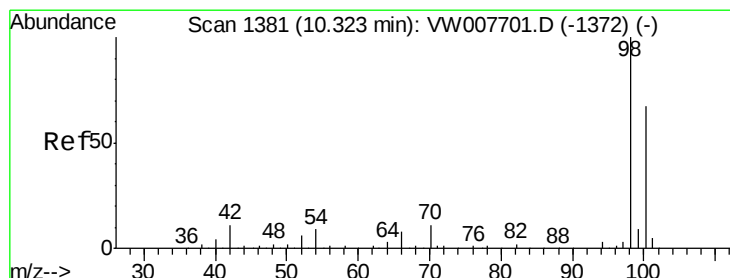
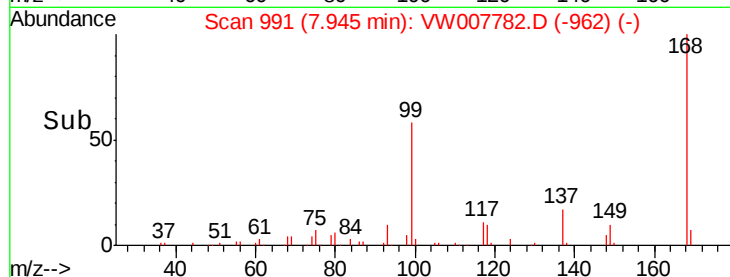
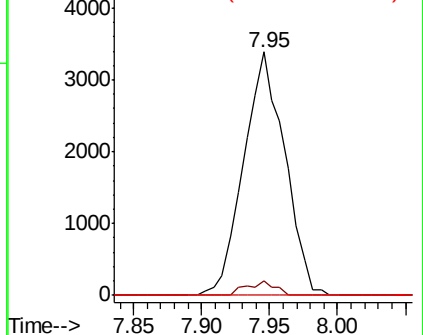
121 0.0 26.1 39.1#



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: 33.682 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW007782.D

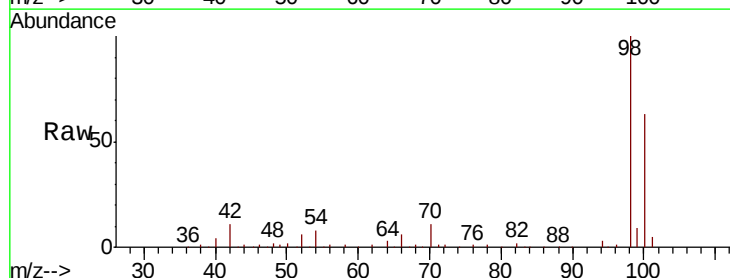
Acq: 21 Dec 2018 09:06

Tgt Ion: 98 Resp: 89340

Ion Ratio Lower Upper

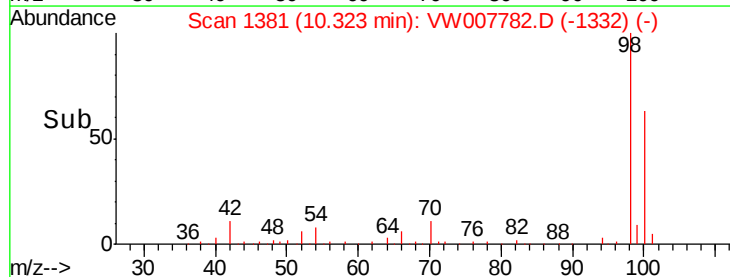
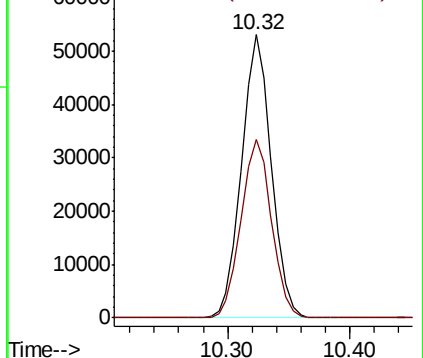
98 100

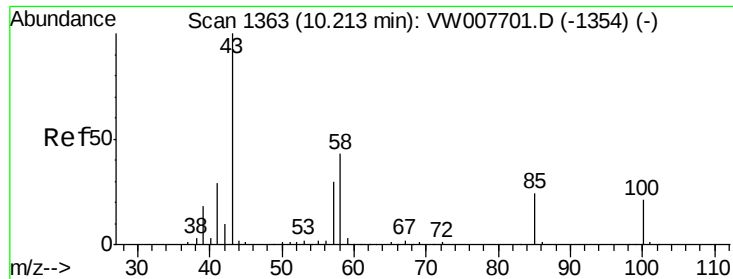
100 64.7 52.2 78.2



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: 1.284 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. -0.00 min

Lab File: VW007782.D

Acq: 21 Dec 2018 09:06

Instrument :

MSVOA_W

ClientSampleId :

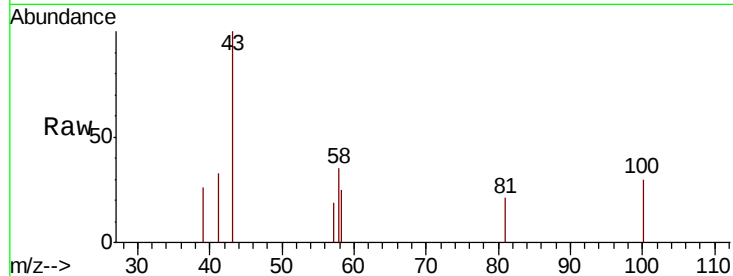
P001-SS013-1218-01

Tot Ion: 43 Resp: 467

Ion Ratio Lower Upper

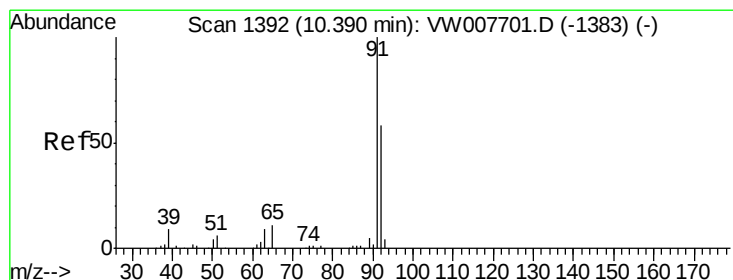
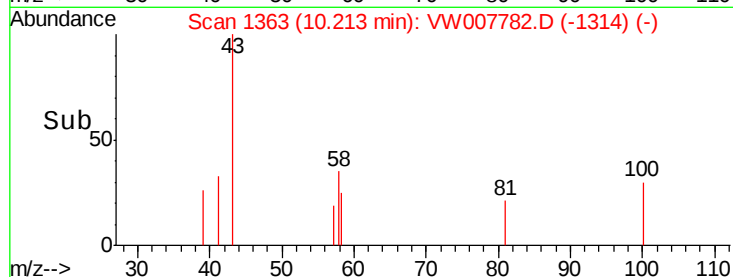
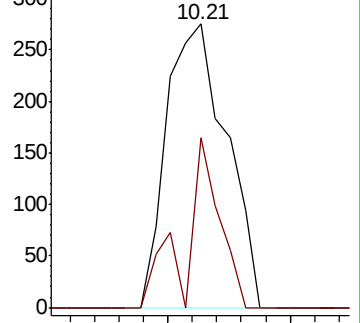
43 100

58 34.7 33.2 49.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#52

Toluene

Concen: 1.380 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW007782.D

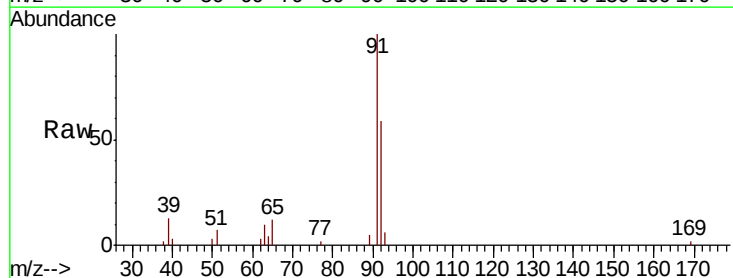
Acq: 21 Dec 2018 09:06

Tgt Ion: 92 Resp: 2751

Ion Ratio Lower Upper

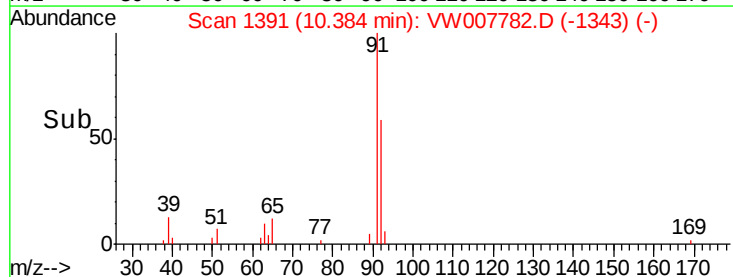
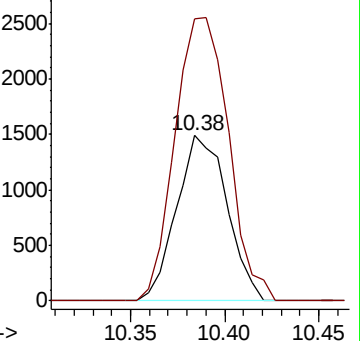
92 100

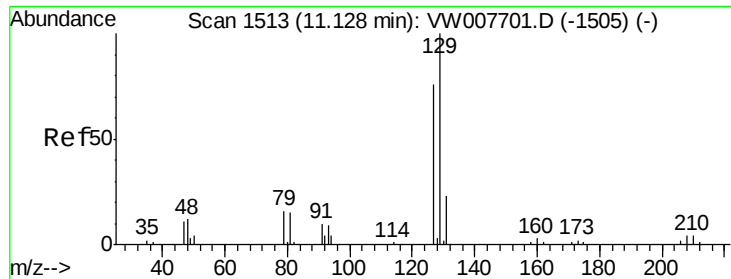
91 182.5 137.0 205.4



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW





#60

Dibromochloromethane

Concen: 1.360 ug/l

RT: 10.86 min Scan# 1469

Delta R.T. -0.27 min

Lab File: VW007782.D

Acq: 21 Dec 2018 09:06

Instrument :

MSVOA_W

ClientSampleId :

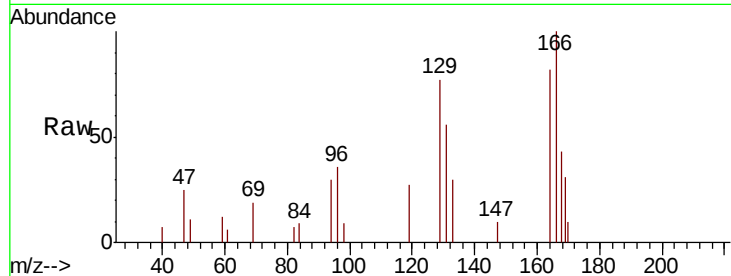
P001-SS013-1218-01

Tot Ion:129 Resp: 1007

Ion Ratio Lower Upper

129 100

127 0.0 38.3 114.9#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.86

600

400

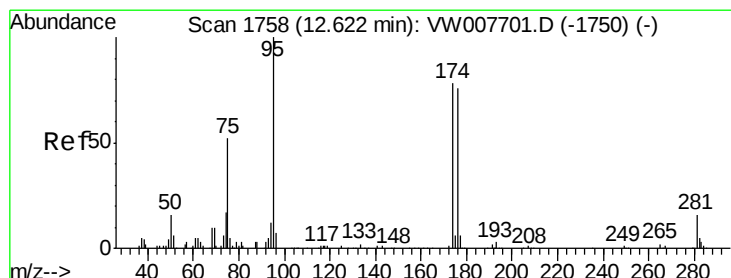
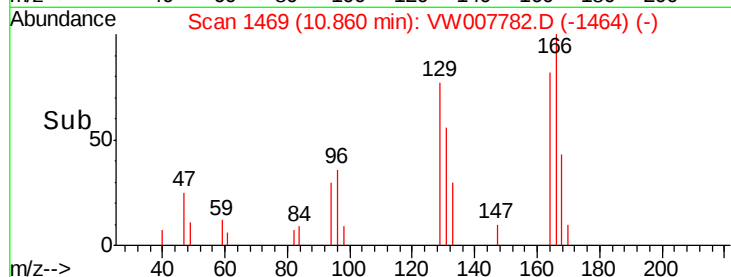
200

0

10.85

10.90

Time-->



#62

4-Bromofluorobenzene

Concen: 24.943 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007782.D

Acq: 21 Dec 2018 09:06

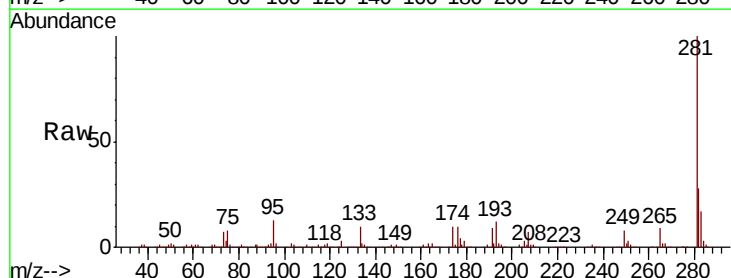
Tgt Ion: 95 Resp: 25559

Ion Ratio Lower Upper

95 100

174 75.6 0.0 152.2

176 80.0 0.0 146.8



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

20000

15000

10000

5000

0

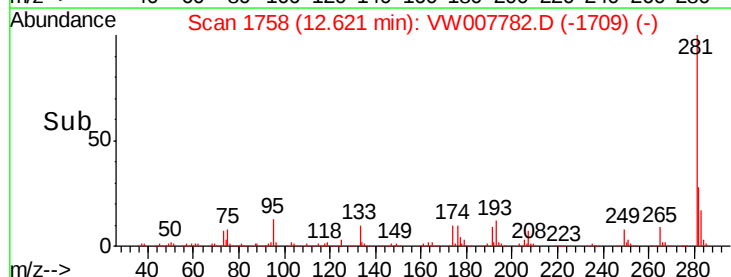
12.55

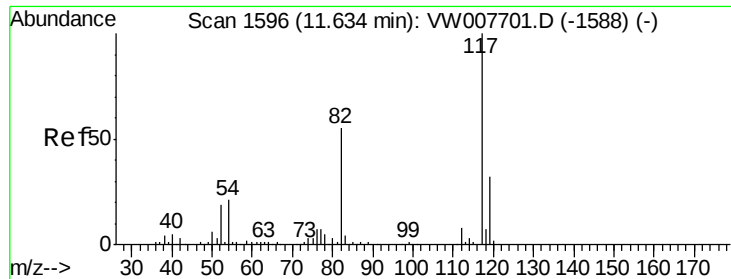
12.60

12.65

12.70

Time-->

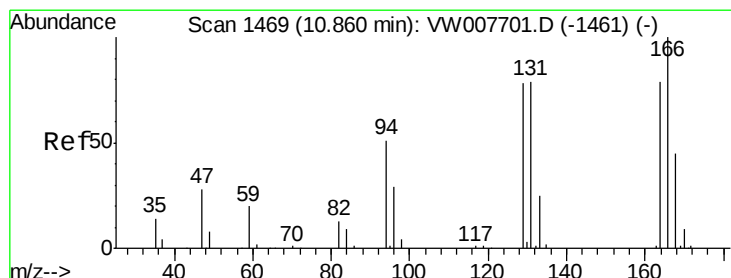
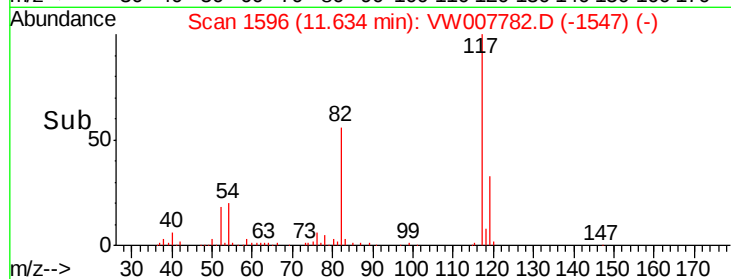
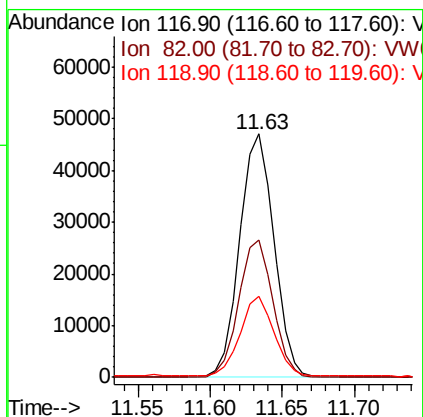
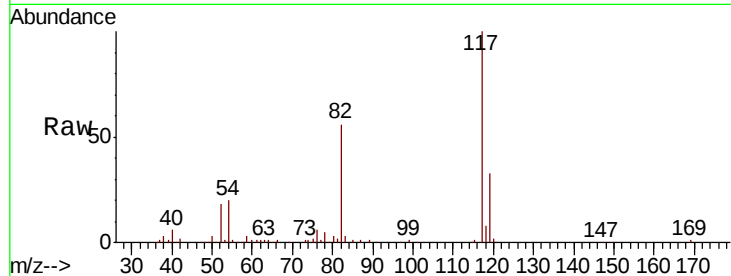




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW007782.D
Acq: 21 Dec 2018 09:06

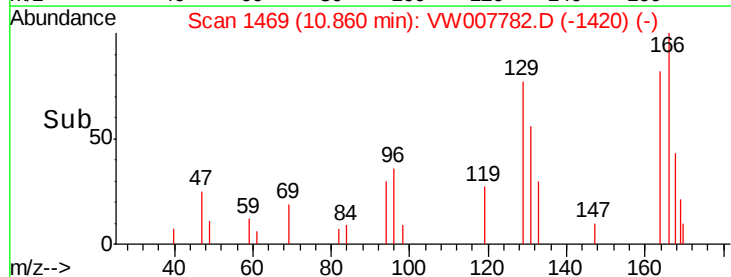
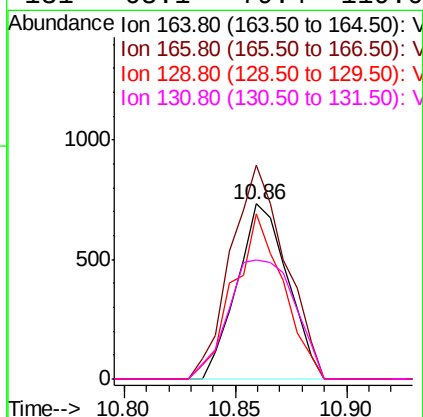
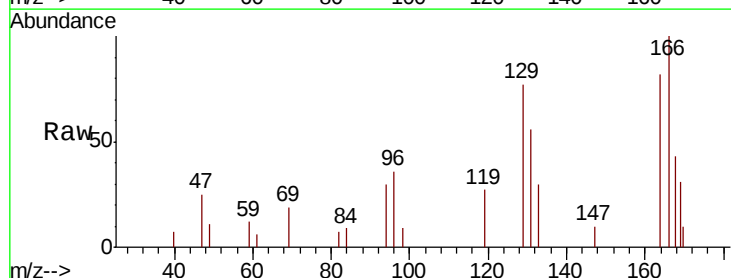
Instrument :
MSVOA_W
ClientSampleId :
P001-SS013-1218-01

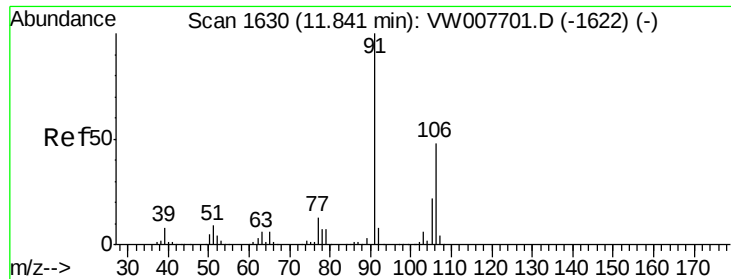
Tot Ion:117 Resp: 78007
Ion Ratio Lower Upper
117 100
82 56.4 44.3 66.5
119 32.7 25.7 38.5



#64
Tetrachloroethene
Concen: 2.100 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW007782.D
Acq: 21 Dec 2018 09:06

Tgt Ion:164 Resp: 1160
Ion Ratio Lower Upper
164 100
166 122.0 101.0 151.6
129 94.0 78.7 118.1
131 68.1 79.4 119.0#

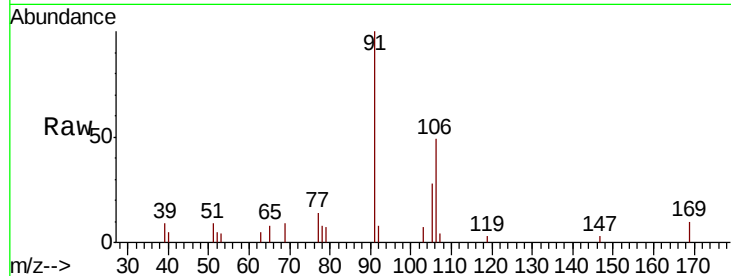




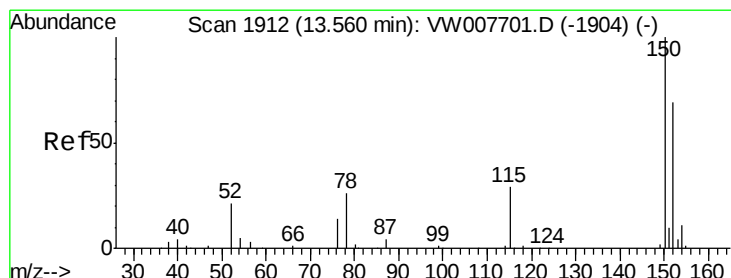
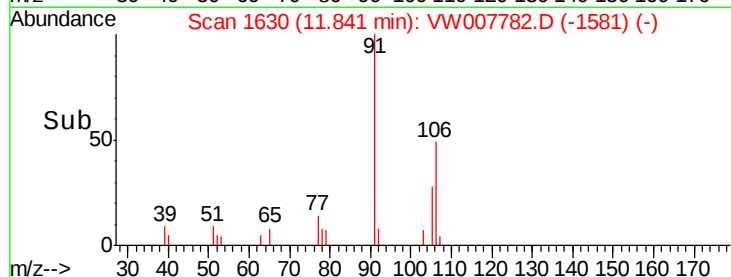
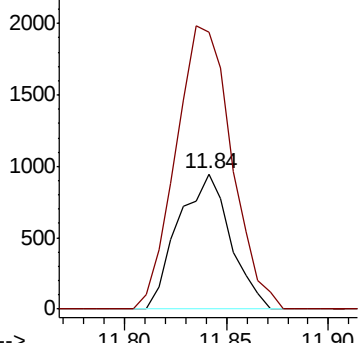
#68
m/p-Xvlenes
Concen: 1.497 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW007782.D
Acq: 21 Dec 2018 09:06

Instrument :
MSVOA_W
ClientSampleId :
P001-SS013-1218-01

Tot Ion:106 Resp: 1683
Ion Ratio Lower Upper
106 100
91 223.4 165.2 247.8

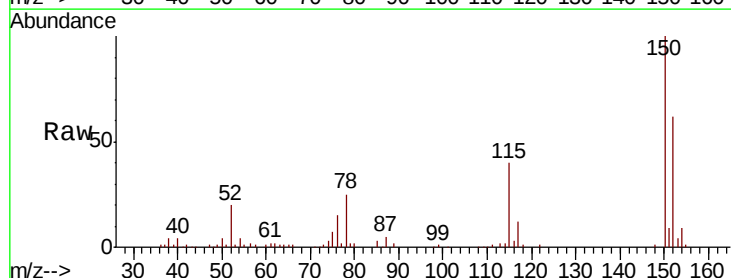


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

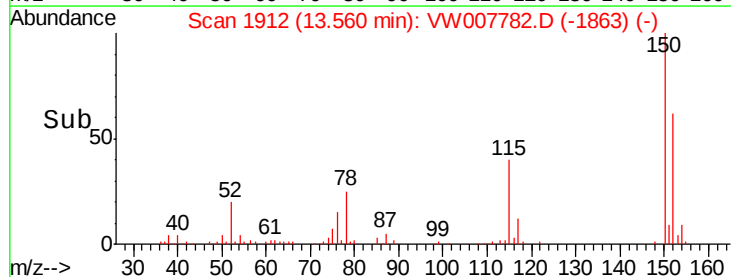
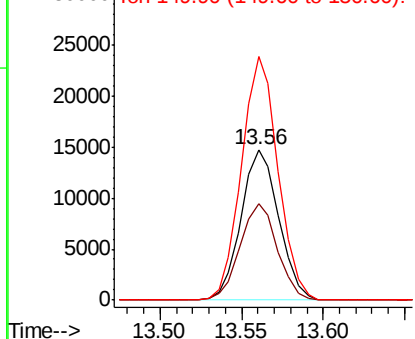


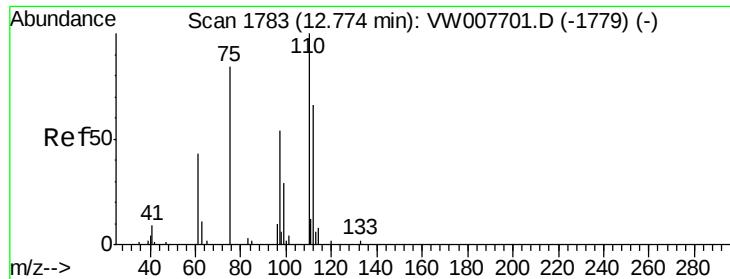
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW007782.D
Acq: 21 Dec 2018 09:06

Tgt Ion:152 Resp: 23691
Ion Ratio Lower Upper
152 100
115 63.4 31.8 95.4
150 157.2 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: 91.301 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW007782.D

Acq: 21 Dec 2018 09:06

Instrument :

MSVOA_W

ClientSampleId :

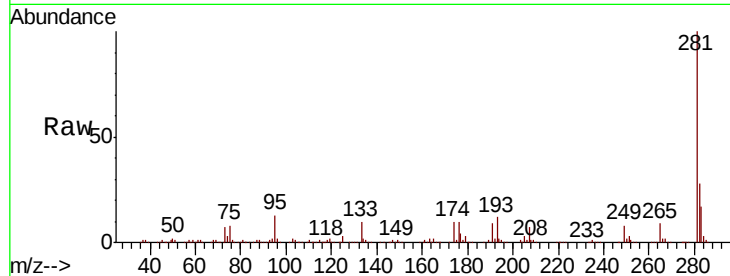
P001-SS013-1218-01

Tot Ion: 75 Resp: 16718

Ion Ratio Lower Upper

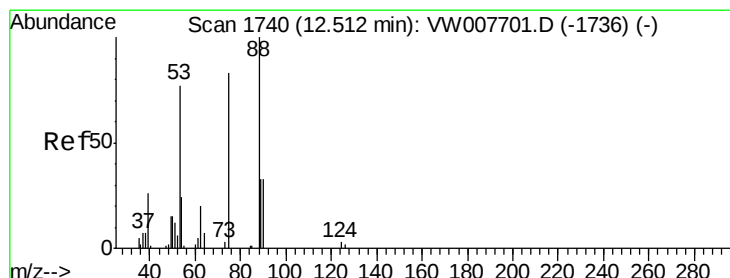
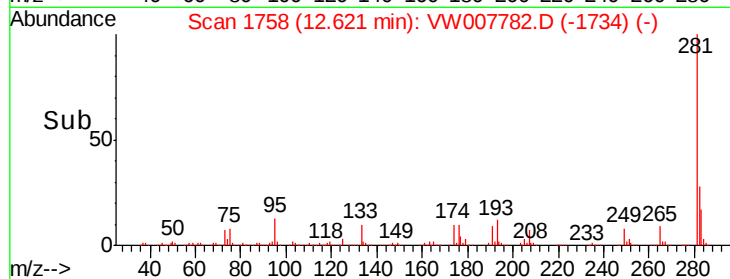
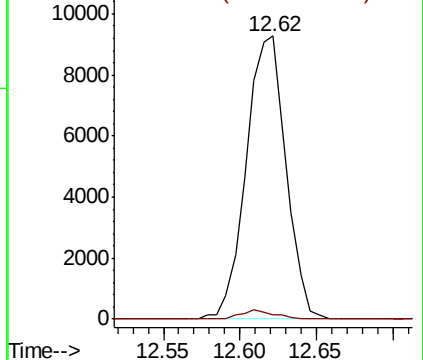
75 100

77 2.5 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: 191.647 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW007782.D

Acq: 21 Dec 2018 09:06

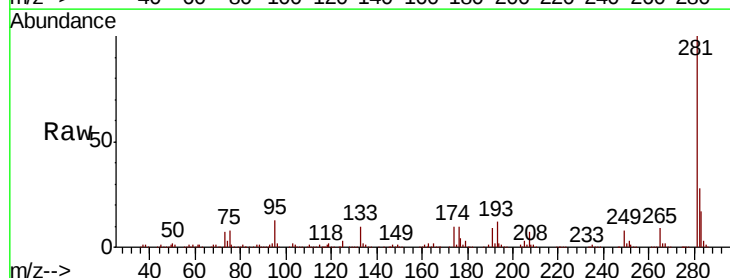
Tgt Ion: 75 Resp: 16718

Ion Ratio Lower Upper

75 100

53 0.0 80.2 120.2#

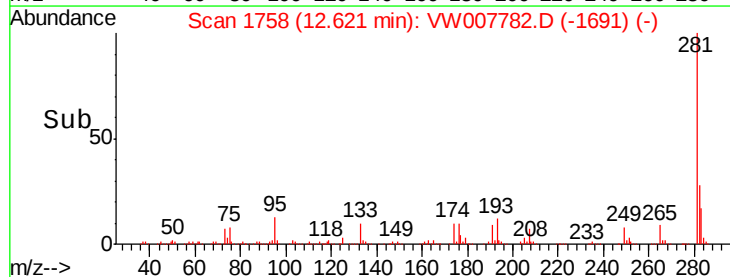
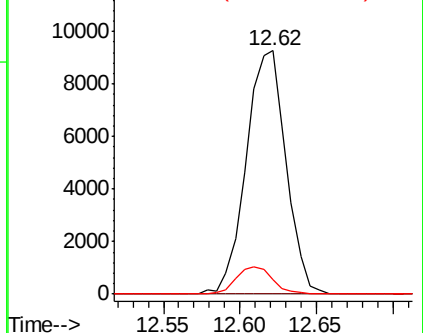
89 10.4 39.2 58.8#

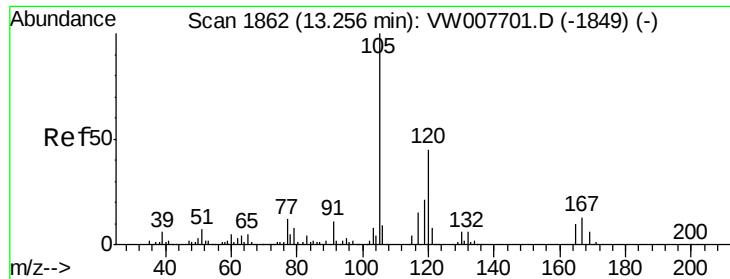


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

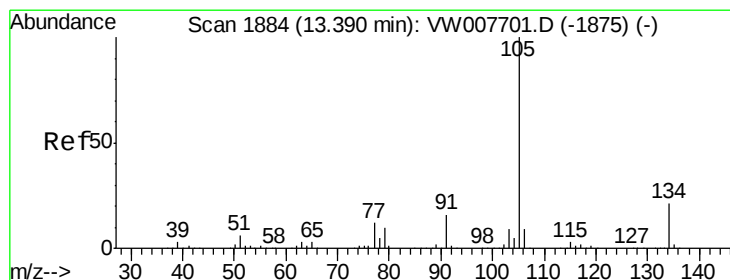
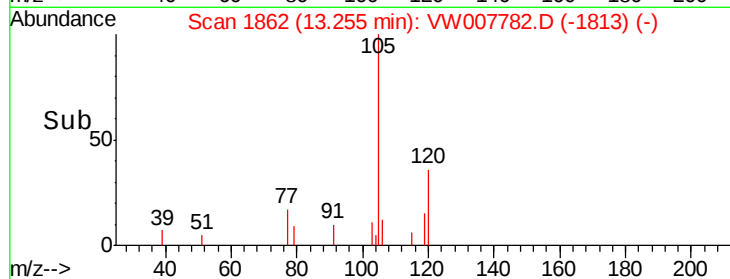
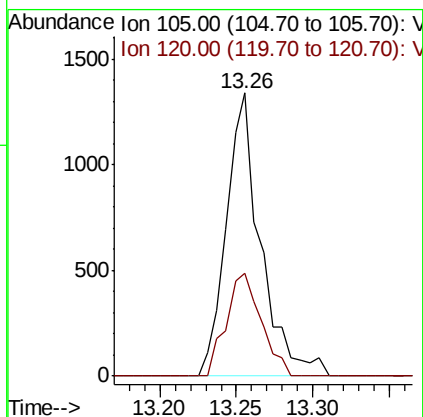
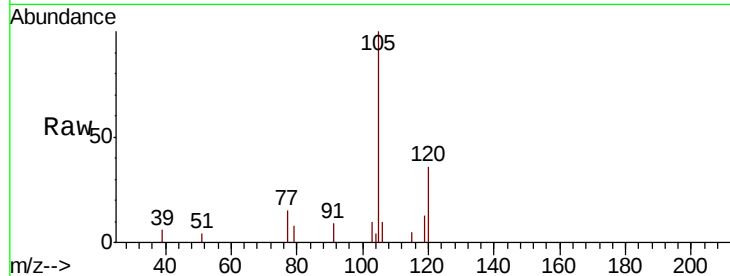




#84
1,2,4-Trimethylbenzene
Concen: 1.338 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. -0.00 min
Lab File: VW007782.D
Acq: 21 Dec 2018 09:06

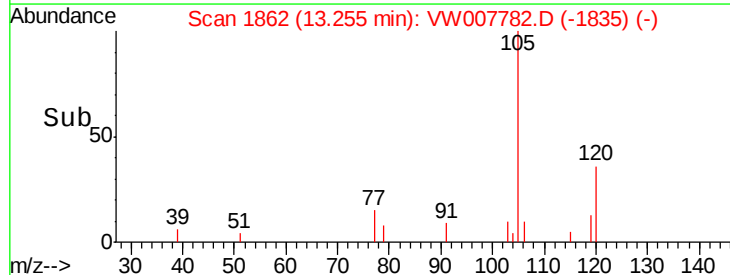
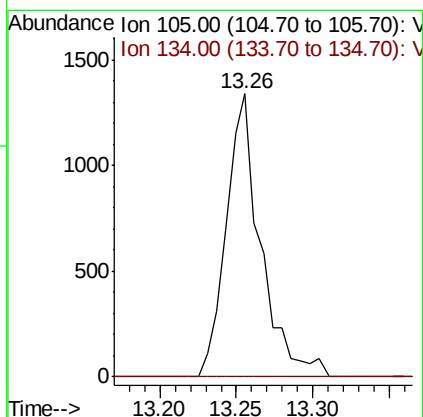
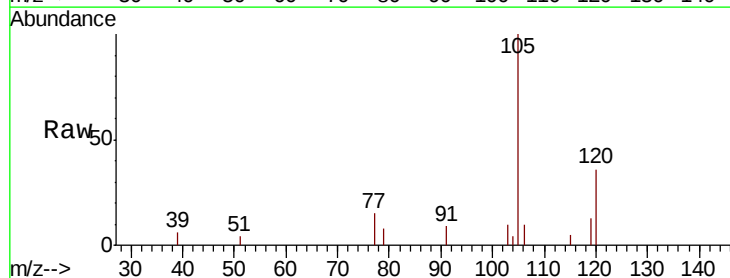
Instrument :
MSVOA_W
ClientSampleId :
P001-SS013-1218-01

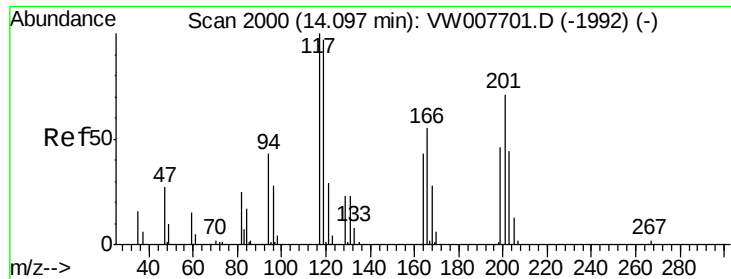
Tot Ion:105 Resp: 2085
Ion Ratio Lower Upper
105 100
120 37.0 22.0 66.0



#85
sec-Butylbenzene
Concen: 1.116 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. -0.13 min
Lab File: VW007782.D
Acq: 21 Dec 2018 09:06

Tgt Ion:105 Resp: 2085
Ion Ratio Lower Upper
105 100
134 0.0 10.2 30.4#





#90

Hexachloroethane

Concen: 1.127 ug/l

RT: 14.07 min Scan# 1995

Delta R.T. -0.03 min

Lab File: VW007782.D

Acq: 21 Dec 2018 09:06

Instrument :

MSVOA_W

ClientSampleId :

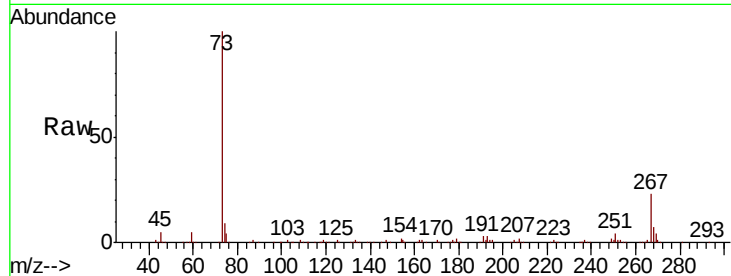
P001-SS013-1218-01

Tot Ion:117 Resp: 336

Ion Ratio Lower Upper

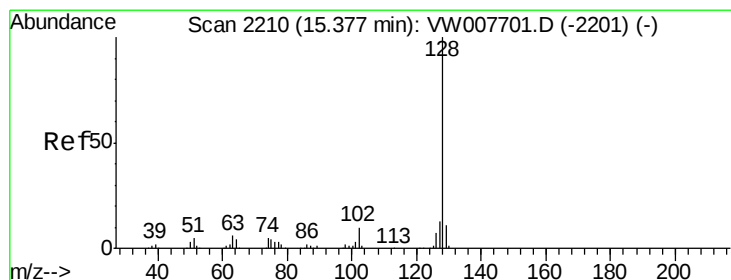
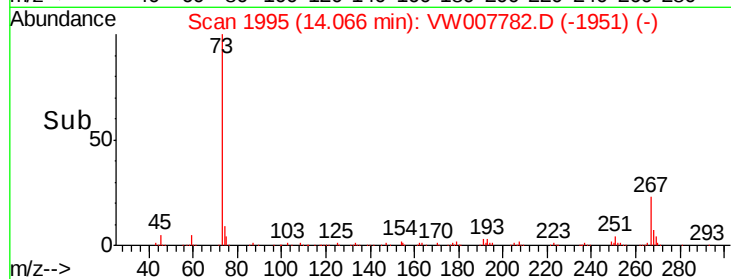
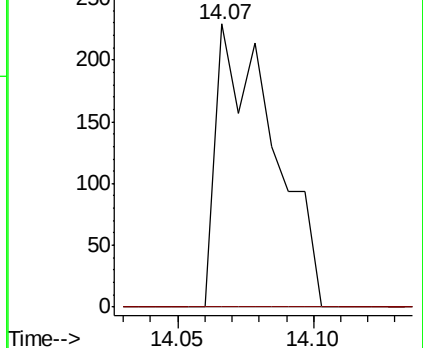
117 100

201 0.0 36.2 108.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 1.665 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. -0.01 min

Lab File: VW007782.D

Acq: 21 Dec 2018 09:06

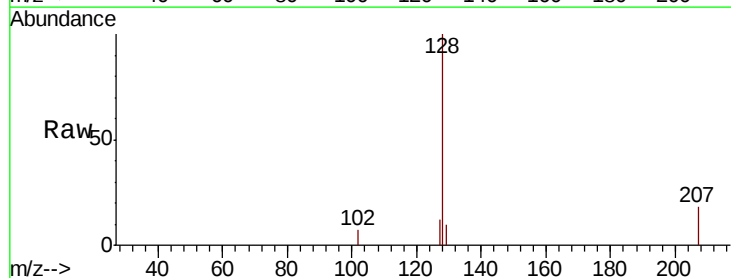
Tgt Ion:128 Resp: 1559

Ion Ratio Lower Upper

128 100

127 14.3 10.7 16.1

129 8.2 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

