

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW121818\
 Data File : VW007612.D
 Acq On : 16 Dec 2018 05:58
 Operator : SY/AP
 Sample : J6378-18
 Misc : 4.74G/5ML/MSVOA W/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 17 00:17:39 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	77187	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	136048	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	95295	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	30182	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	52589	61.41	ug/l	0.00
Spiked Amount			Recovery	=	122.82%	
35) Dibromofluoromethane	7.88	113	46550	56.52	ug/l	0.00
Spiked Amount			Recovery	=	113.04%	
50) Toluene-d8	10.32	98	153233	49.62	ug/l	0.00
Spiked Amount			Recovery	=	99.24%	
62) 4-Bromofluorobenzene	12.62	95	38782	34.16	ug/l	0.00
Spiked Amount			Recovery	=	68.32%	

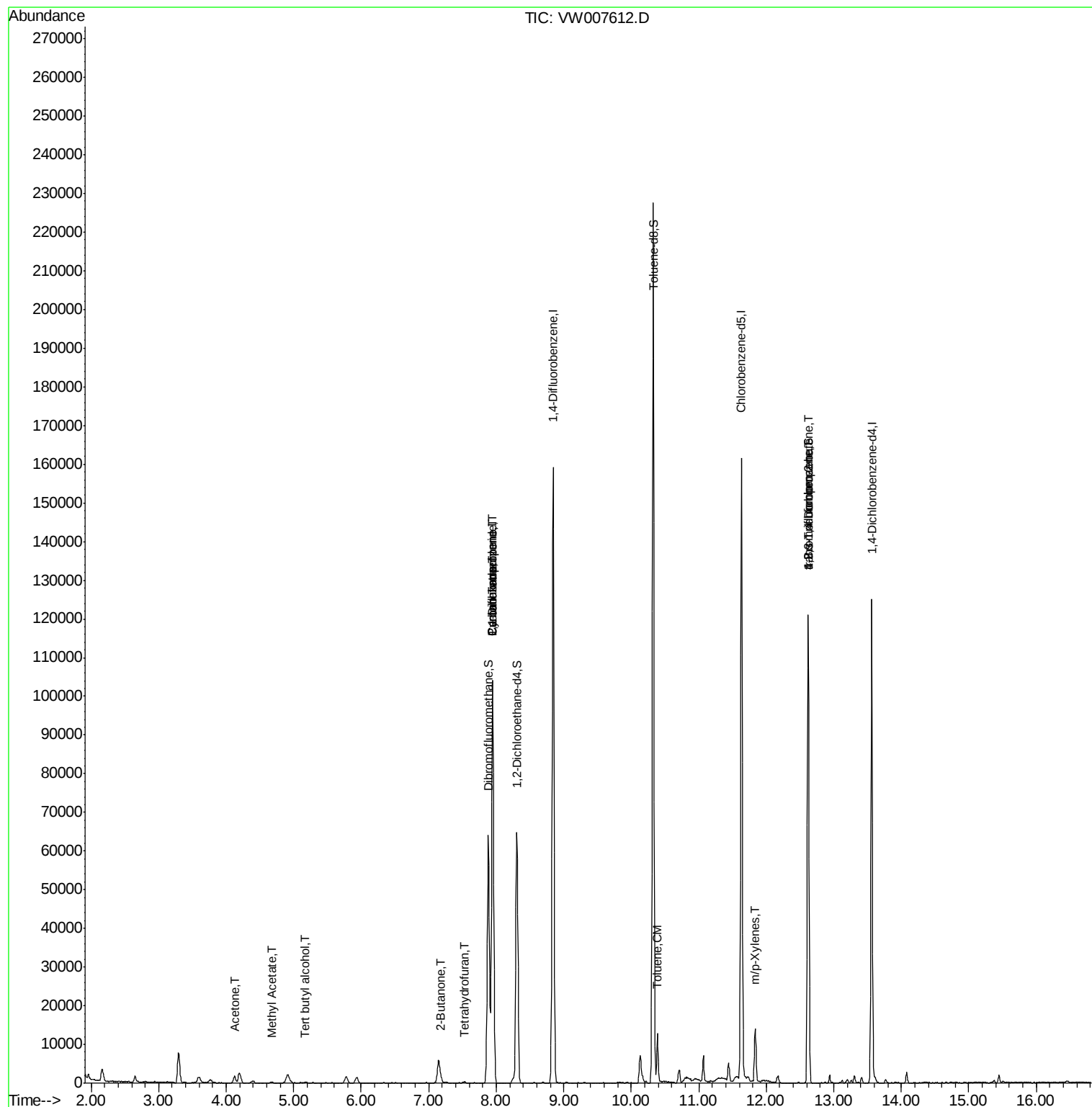
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.17	59	149	2.534	ug/l #	74
16) Acetone	4.13	43	3247	21.708	ug/l	92
18) Methyl Acetate	4.68	43	523	1.288	ug/l #	80
20) Methylene Chloride	4.92	84	2134	Below Cal	#	85
25) 2-Butanone	7.18	43	1897	9.715	ug/l #	79
29) Tetrahydrofuran	7.53	42	317	2.564	ug/l #	55
31) Cyclohexane	7.95	56	1520	1.143	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	5979	4.818	ug/l #	51
38) Carbon Tetrachloride	7.95	117	8374	6.201	ug/l #	17
52) Toluene	10.39	92	5293	2.375	ug/l	98
68) m/p-Xylenes	11.83	106	3988	3.004	ug/l	95
76) 1,2,3-Trichloropropane	12.62	75	20120	80.849	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	20120	178.596	ug/l #	7

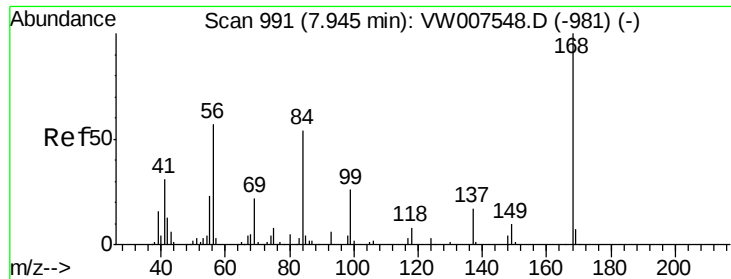
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW007612.D

Acq: 16 Dec 2018 05:58

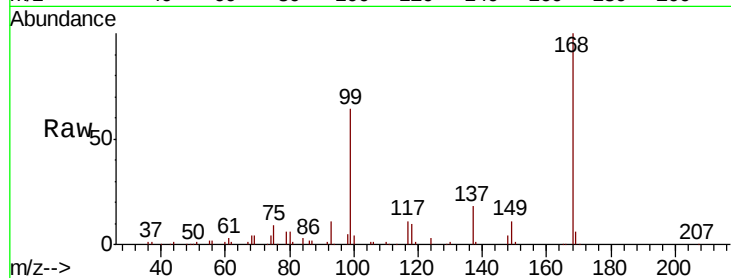
Instrument :
MSVOA_W
ClientSampled :

Tot Ion:168 Resp: 77187

Ion Ratio Lower Upper

168 100

99 63.9 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

40000

30000

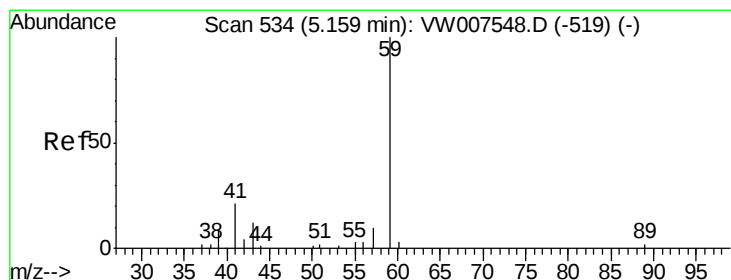
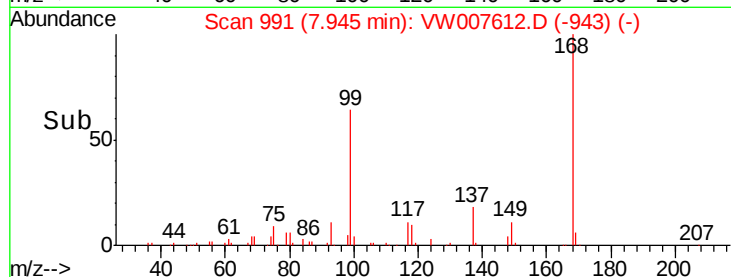
20000

10000

0

7.85 7.90 7.95 8.00 8.05

Time-->



#11

Tert butyl alcohol

Concen: 2.534 ug/l

RT: 5.17 min Scan# 535

Delta R.T. 0.00 min

Lab File: VW007612.D

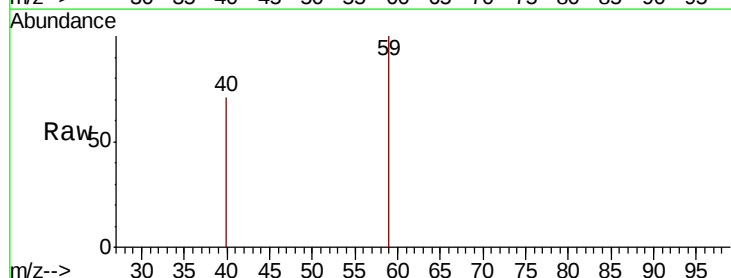
Acq: 16 Dec 2018 05:58

Tgt Ion: 59 Resp: 149

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

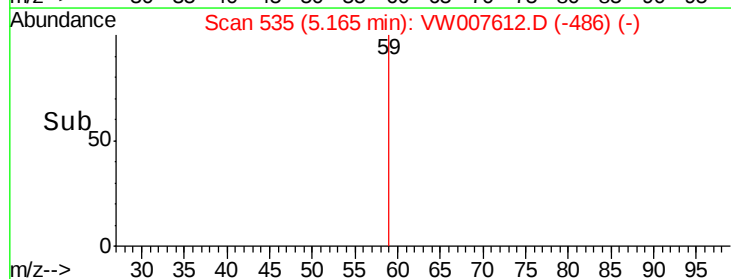
40

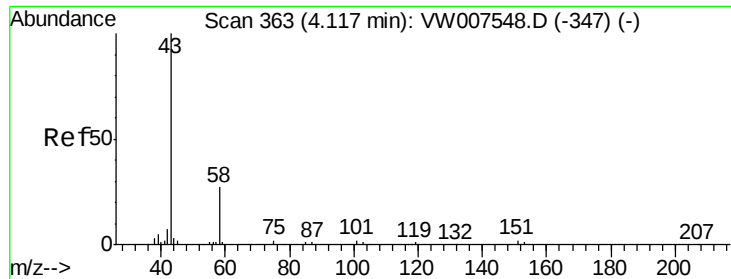
20

0

5.15 5.20

Time-->





#16

Acetone

Concen: 21.708 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW007612.D

Acq: 16 Dec 2018 05:58

Instrument :

MSVOA_W

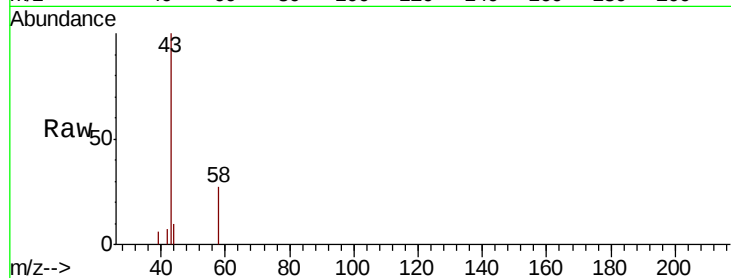
ClientSampleId :

Tot Ion: 43 Resp: 3247

Ion Ratio Lower Upper

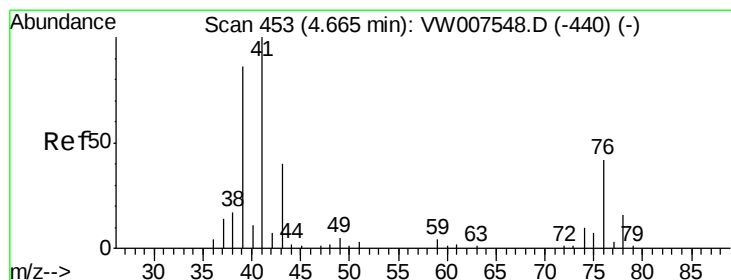
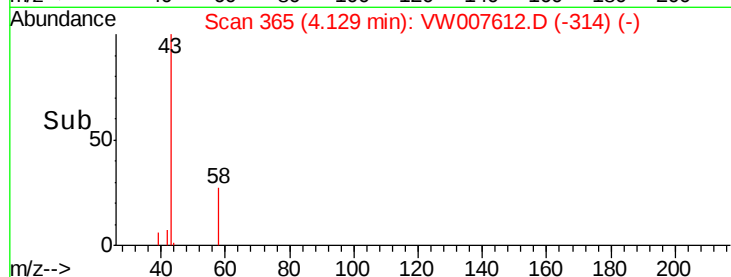
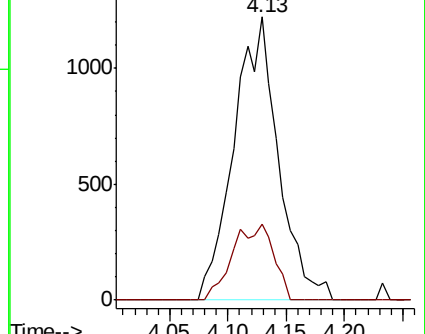
43 100

58 26.8 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#18

Methyl Acetate

Concen: 1.288 ug/l

RT: 4.68 min Scan# 456

Delta R.T. 0.02 min

Lab File: VW007612.D

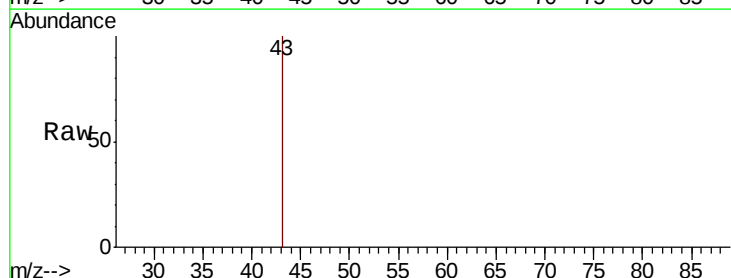
Acq: 16 Dec 2018 05:58

Tgt Ion: 43 Resp: 523

Ion Ratio Lower Upper

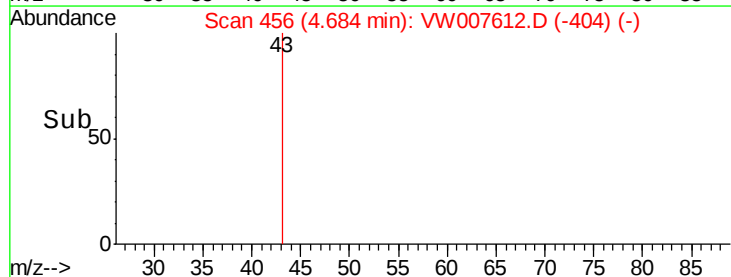
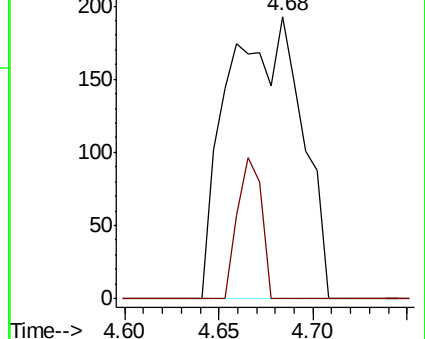
43 100

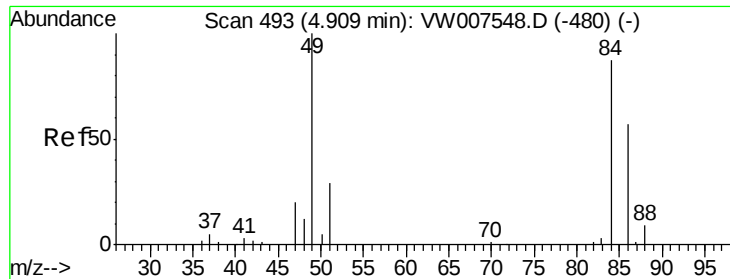
74 16.3 21.1 31.7#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

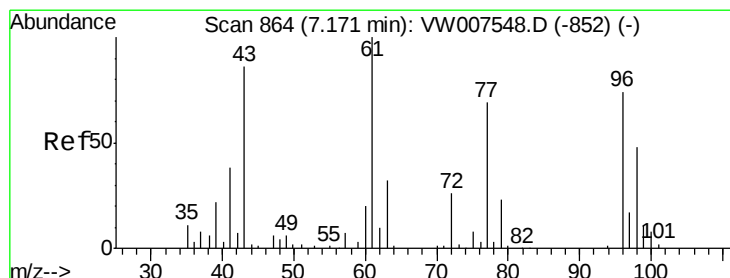
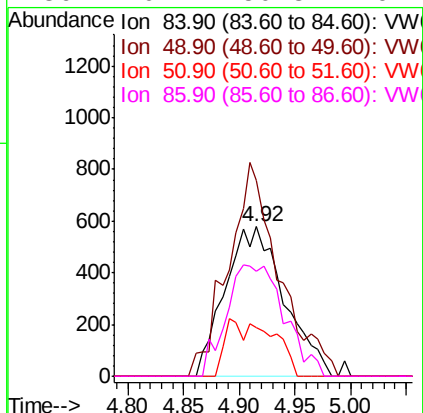
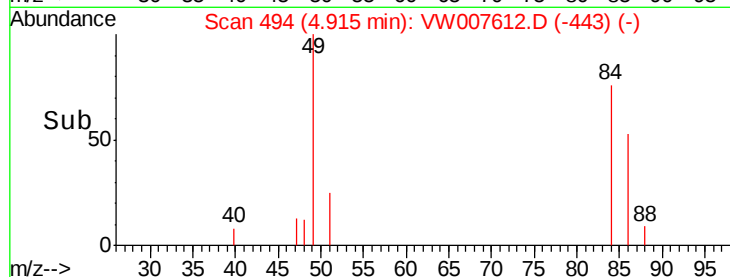
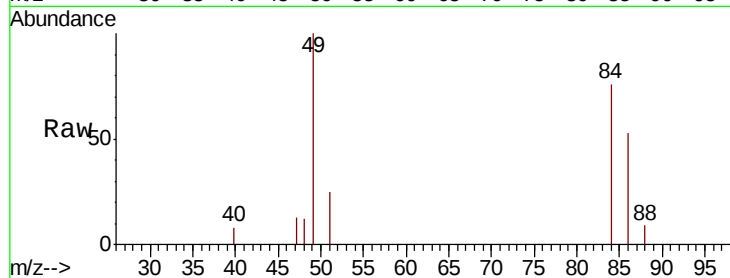




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW007612.D
Acq: 16 Dec 2018 05:58

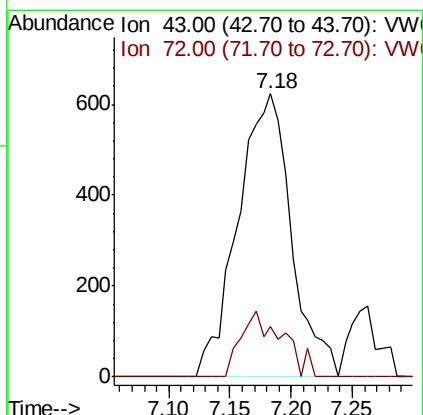
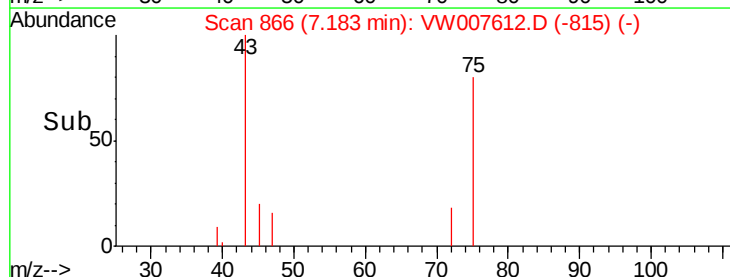
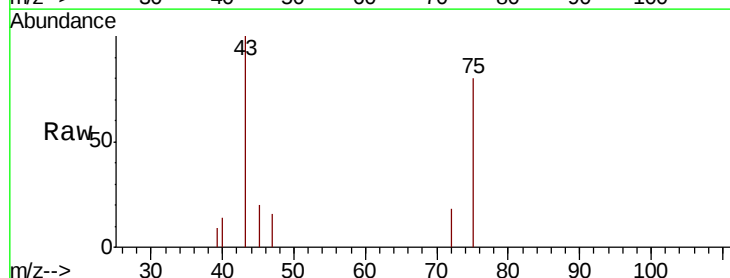
Instrument :
MSVOA_W
ClientSampled :

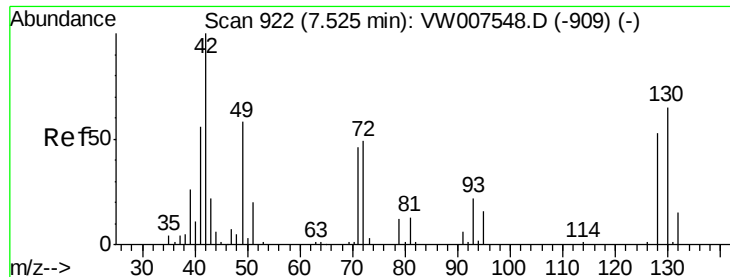
Tot Ion: 84 Resp: 2134
Ion Ratio Lower Upper
84 100
49 131.5 87.1 130.7#
51 32.4 28.2 42.2
86 70.1 50.8 76.2



#25
2-Butanone
Concen: 9.715 ug/l
RT: 7.18 min Scan# 866
Delta R.T. 0.01 min
Lab File: VW007612.D
Acq: 16 Dec 2018 05:58

Tgt Ion: 43 Resp: 1897
Ion Ratio Lower Upper
43 100
72 17.8 23.4 35.2#





#29

Tetrahydrofuran

Concen: 2.564 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.00 min

Lab File: VW007612.D

Acq: 16 Dec 2018 05:58

Instrument :

MSVOA_W

ClientSampled :

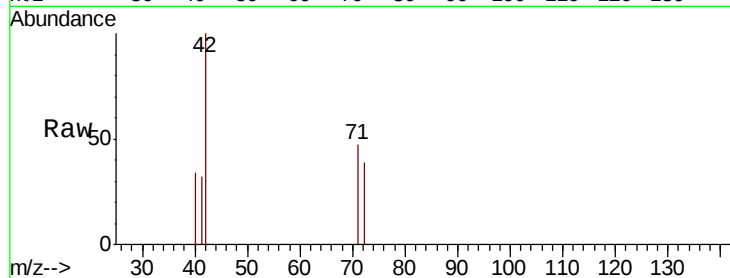
Tot Ion: 42 Resp: 317

Ion Ratio Lower Upper

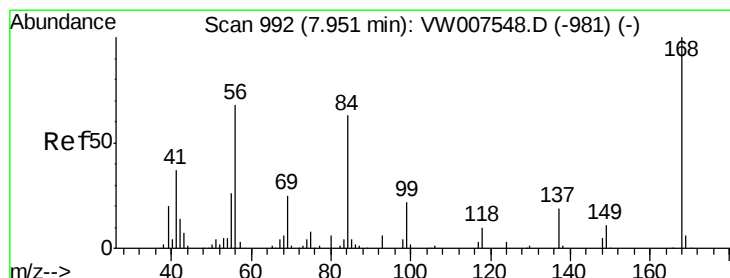
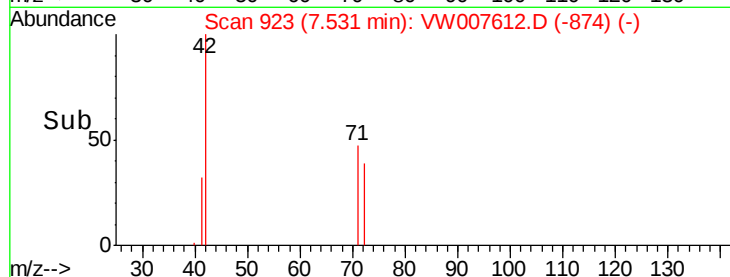
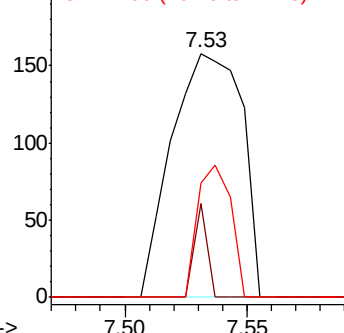
42 100

72 6.9 38.2 57.4#

71 25.9 35.5 53.3#



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: 1.143 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW007612.D

Acq: 16 Dec 2018 05:58

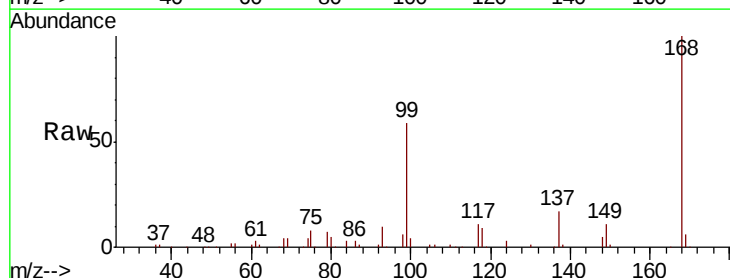
Tgt Ion: 56 Resp: 1520

Ion Ratio Lower Upper

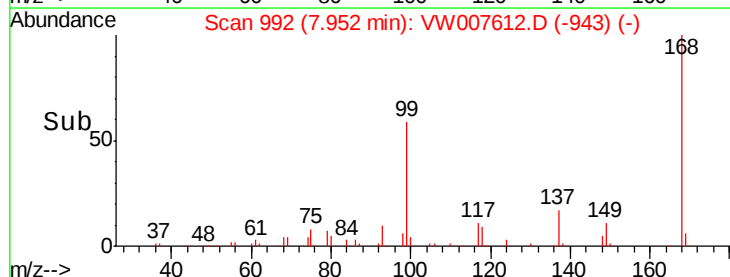
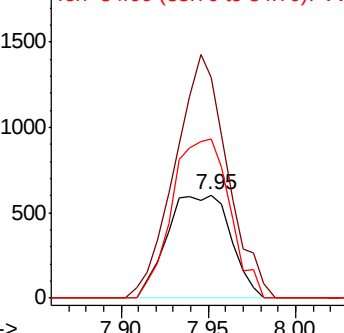
56 100

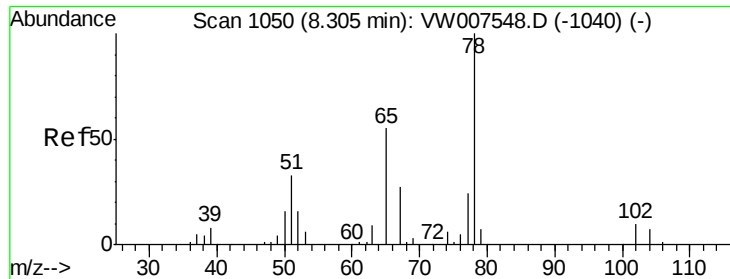
69 214.3 28.9 43.3#

84 155.1 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

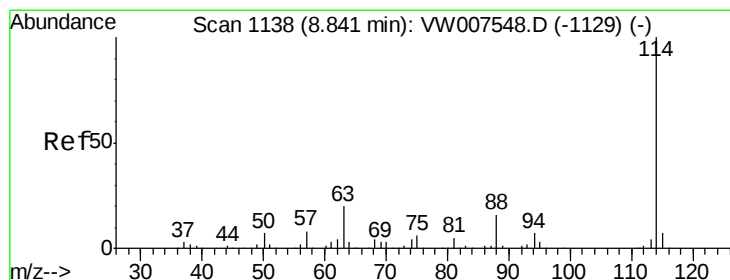
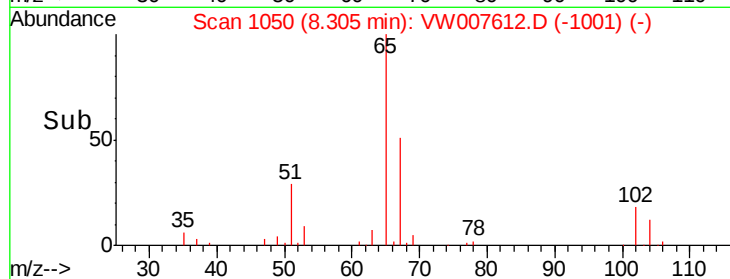
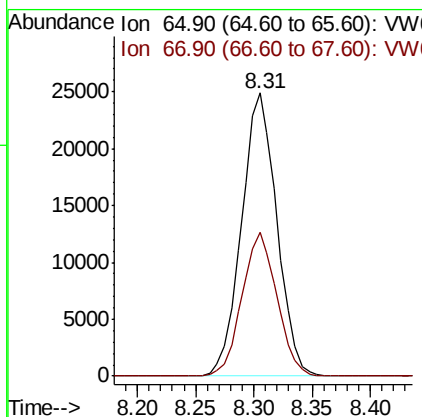
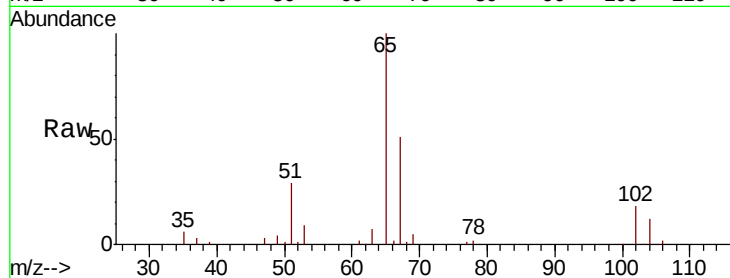




#33
 1,2-Dichloroethane-d4
 Concen: 61.412 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW007612.D
 Acq: 16 Dec 2018 05:58

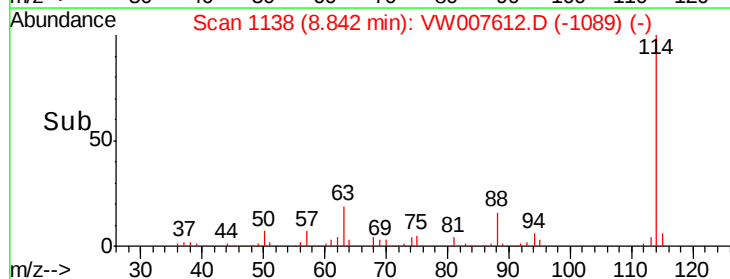
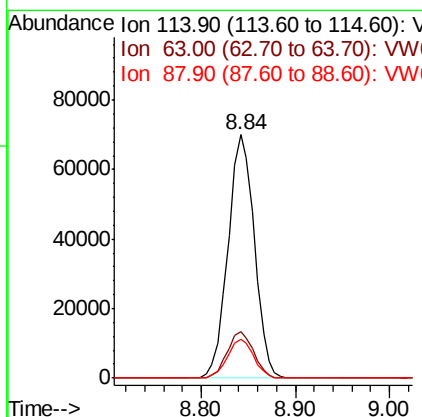
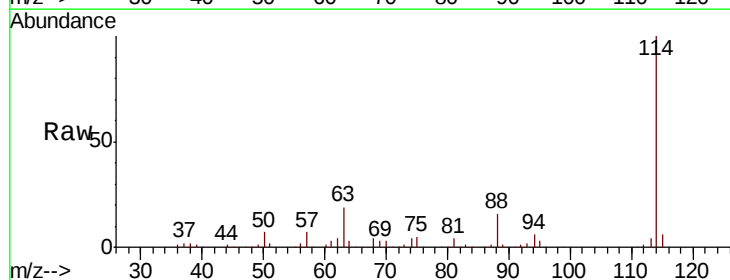
Instrument :
 MSVOA_W
 ClientSampled :

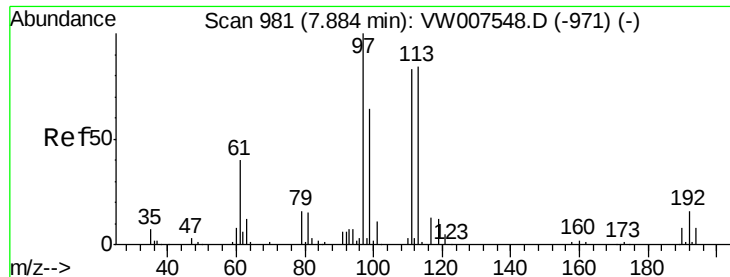
Tot Ion: 65 Resp: 52589
 Ion Ratio Lower Upper
 65 100
 67 50.4 0.0 101.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW007612.D
 Acq: 16 Dec 2018 05:58

Tgt Ion: 114 Resp: 136048
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 39.6
 88 16.1 0.0 31.4

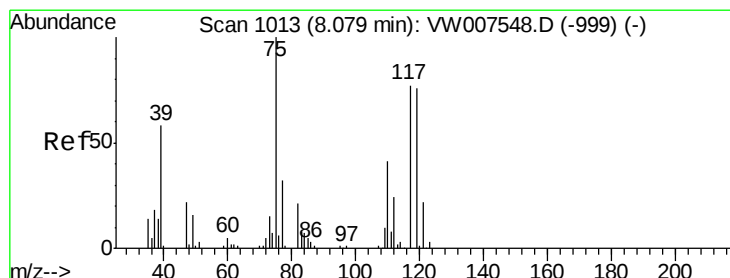
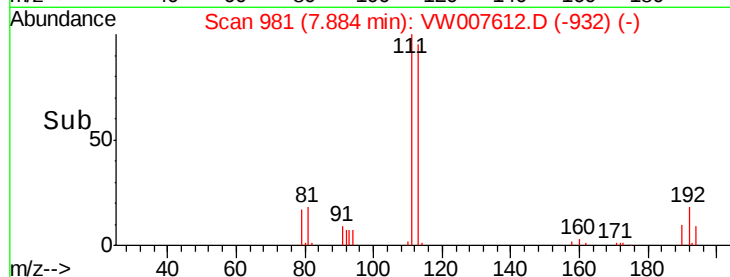
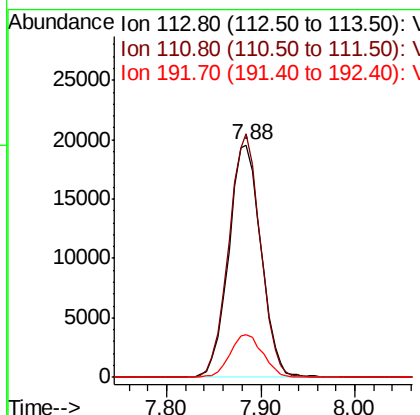
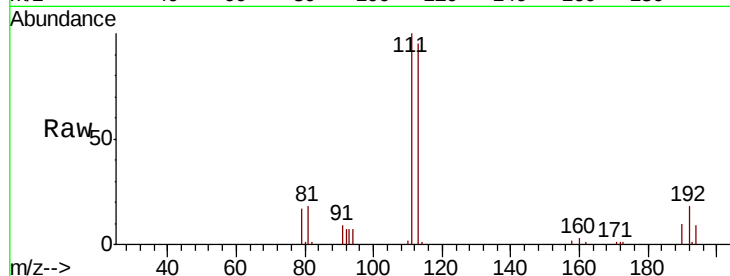




#35
 Dibromofluoromethane
 Concen: 56.523 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW007612.D
 Acq: 16 Dec 2018 05:58

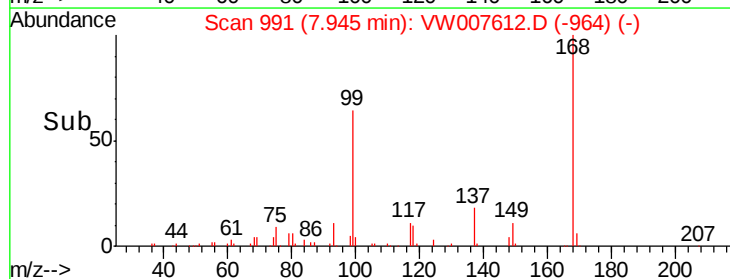
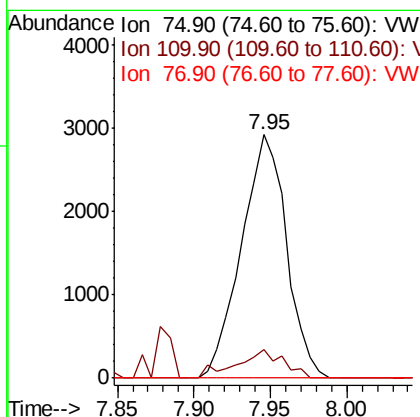
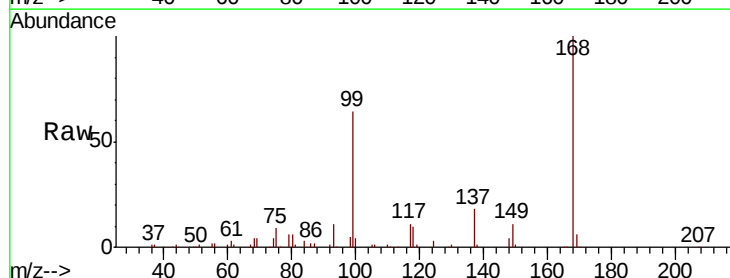
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 MSVOA_W
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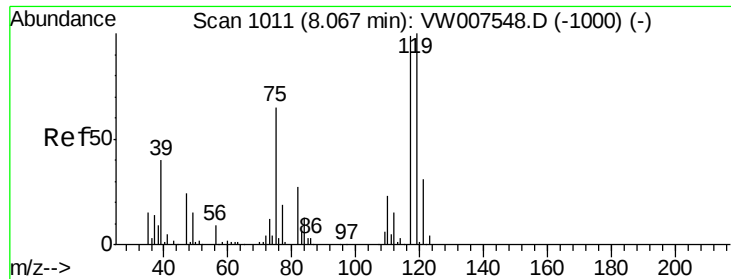
Tot Ion:113 Resp: 46550
 Ion Ratio Lower Upper
 113 100
 111 102.3 81.1 121.7
 192 18.5 14.6 21.8



#36
 1,1-Dichloropropene
 Concen: 4.818 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW007612.D
 Acq: 16 Dec 2018 05:58

Tgt Ion: 75 Resp: 5979
 Ion Ratio Lower Upper
 75 100
 110 11.9 18.5 55.5#
 77 0.0 25.6 38.4#





#38

Carbon Tetrachloride

Concen: 6.201 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW007612.D

Acq: 16 Dec 2018 05:58

Instrument :

MSVOA_W

ClientSampleId :

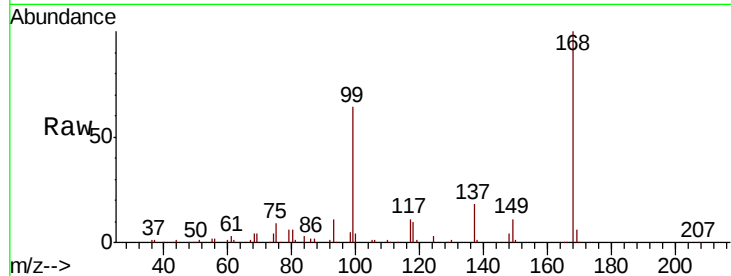
Tot Ion:117 Resp: 8374

Ion Ratio Lower Upper

117 100

119 4.9 74.3 111.5#

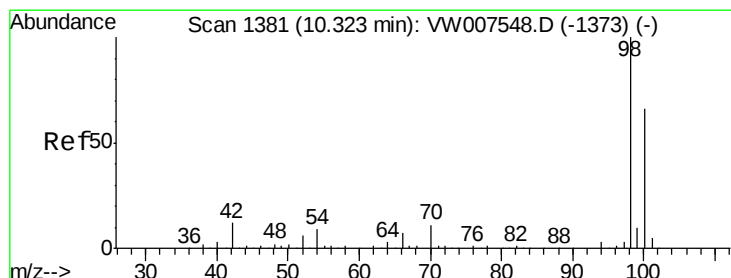
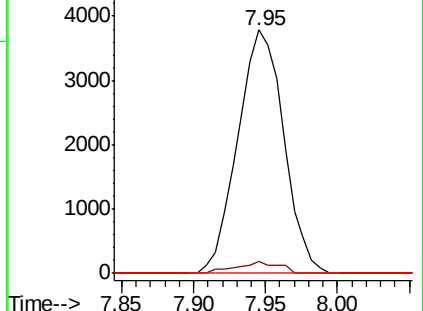
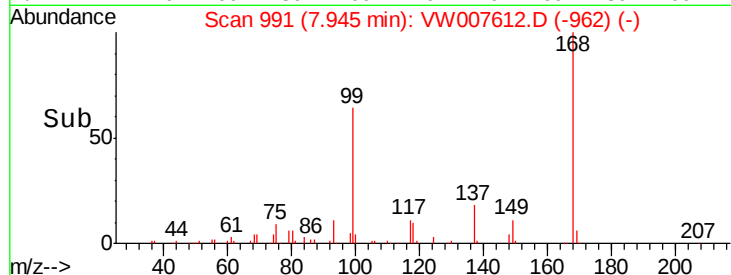
121 0.0 24.3 36.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 49.624 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW007612.D

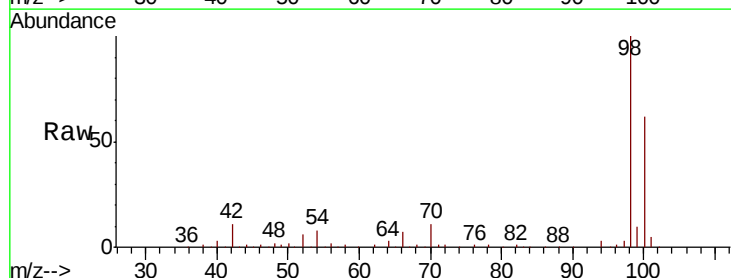
Acq: 16 Dec 2018 05:58

Tgt Ion: 98 Resp: 153233

Ion Ratio Lower Upper

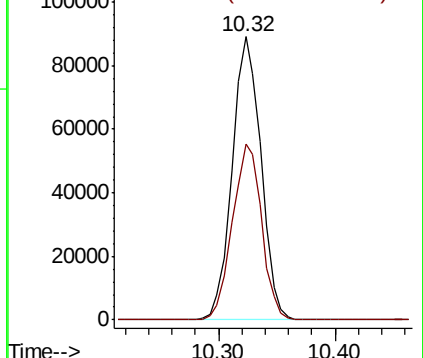
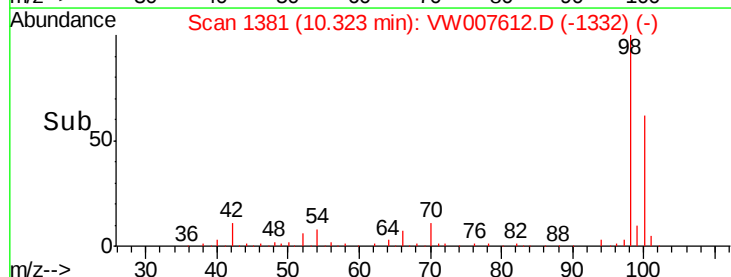
98 100

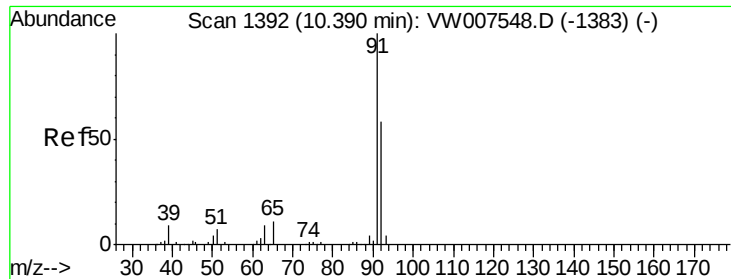
100 63.0 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#52

Toluene

Concen: 2.375 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW007612.D

Acq: 16 Dec 2018 05:58

Instrument :

MSVOA_W

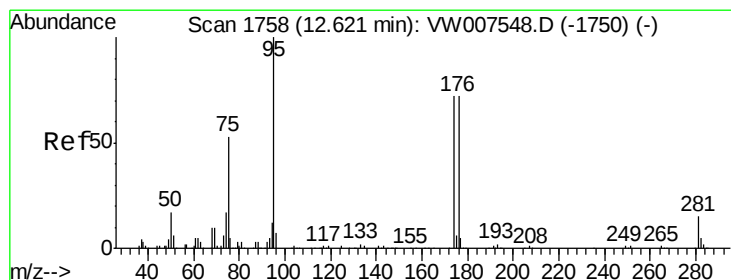
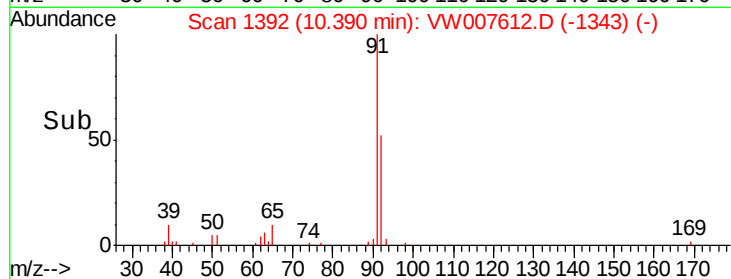
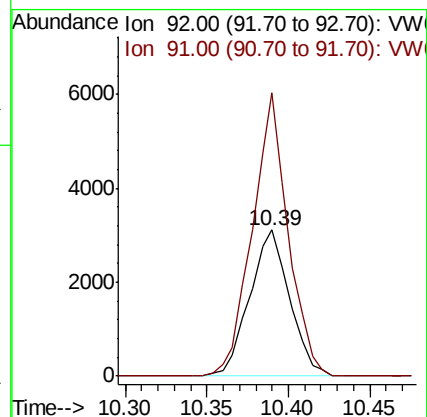
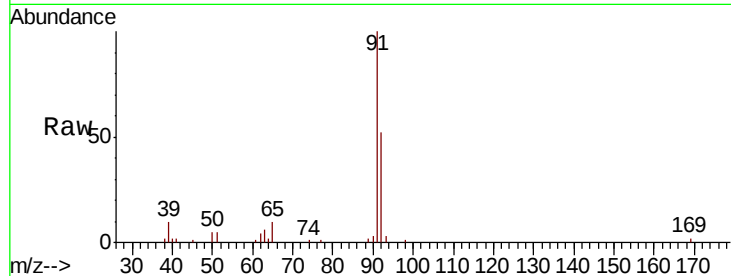
ClientSampleId :

Tot Ion: 92 Resp: 5293

Ion Ratio Lower Upper

92 100

91 172.9 136.2 204.2



#62

4-Bromofluorobenzene

Concen: 34.159 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW007612.D

Acq: 16 Dec 2018 05:58

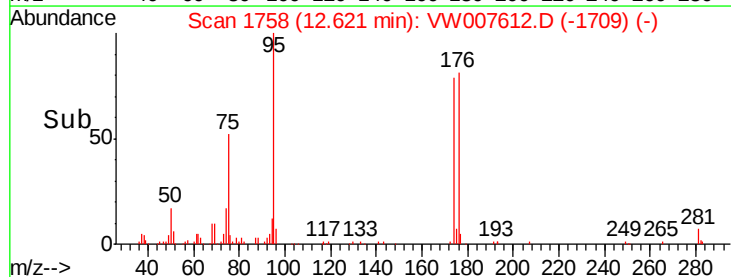
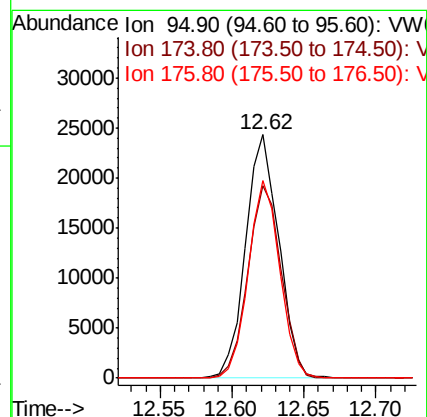
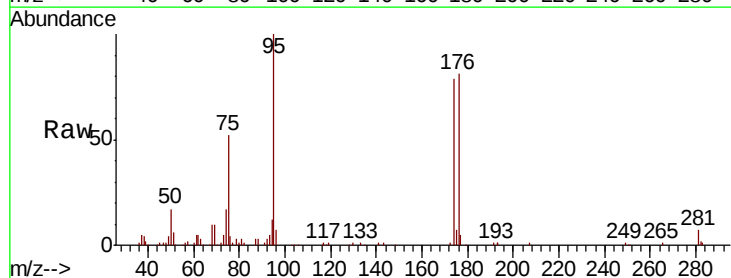
Tgt Ion: 95 Resp: 38782

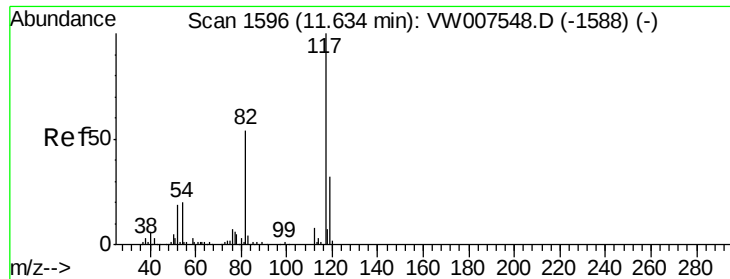
Ion Ratio Lower Upper

95 100

174 79.5 0.0 147.2

176 76.8 0.0 138.8

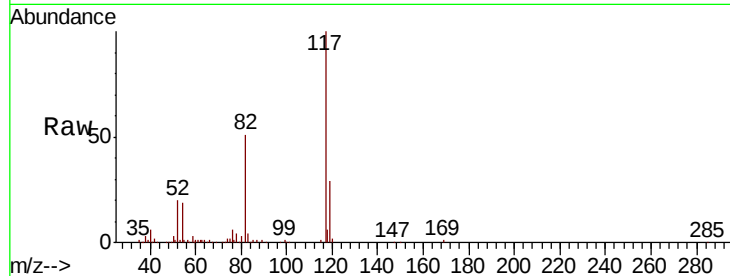




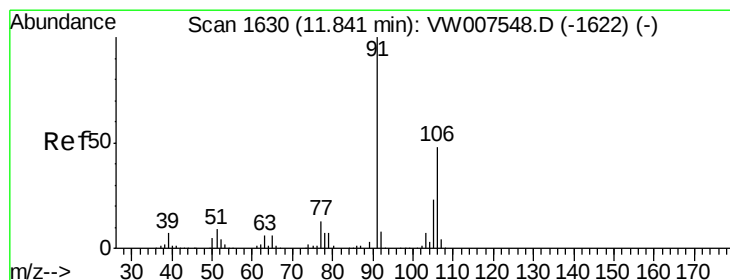
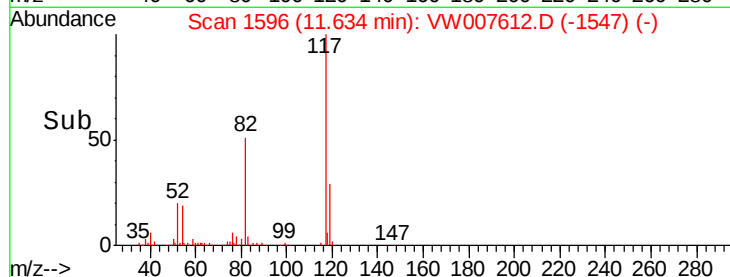
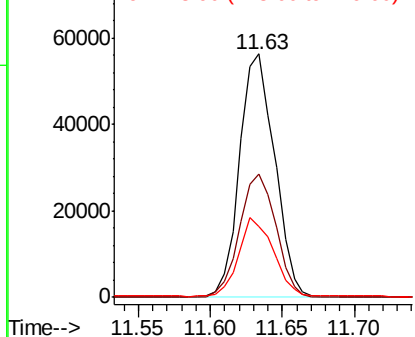
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW007612.D
Acq: 16 Dec 2018 05:58

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:117 Resp: 95295
Ion Ratio Lower Upper
117 100
82 50.5 42.3 63.5
119 28.7 23.0 34.6

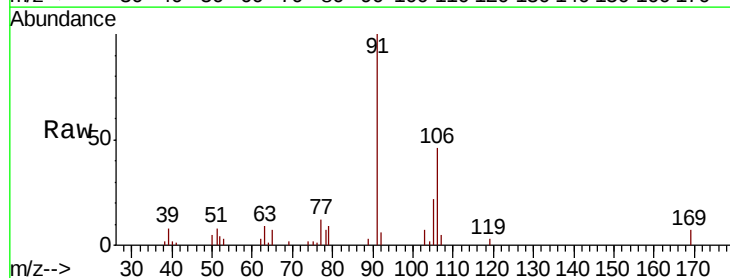


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VW
Ion 118.90 (118.60 to 119.60): V

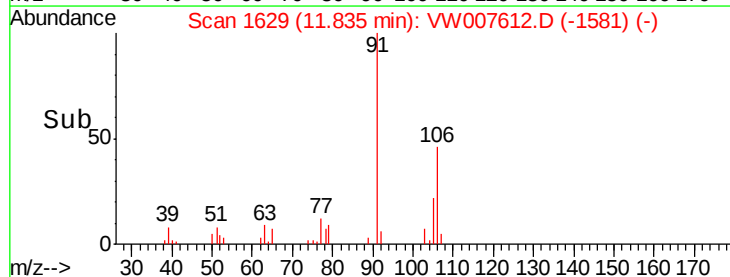
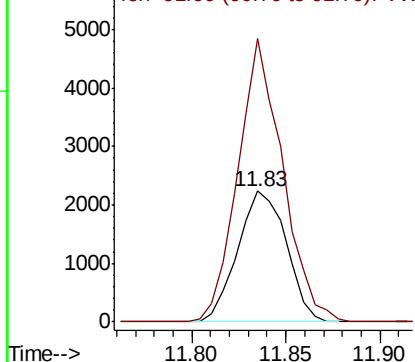


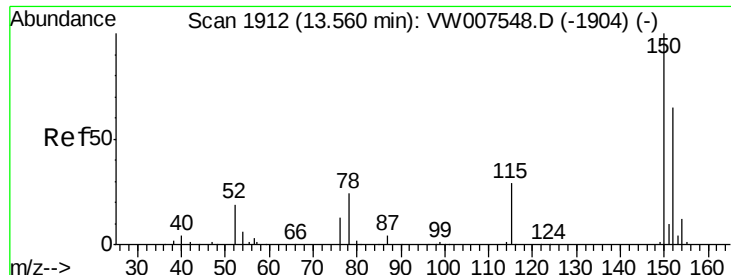
#68
m/p-Xylenes
Concen: 3.004 ug/l
RT: 11.83 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW007612.D
Acq: 16 Dec 2018 05:58

Tgt Ion:106 Resp: 3988
Ion Ratio Lower Upper
106 100
91 199.6 165.3 247.9



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW007612.D

Acq: 16 Dec 2018 05:58

Instrument :

MSVOA_W

ClientSampleId :

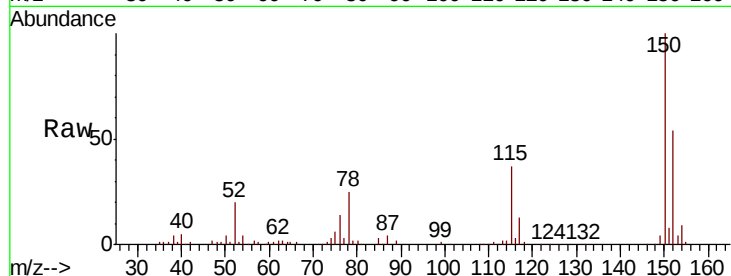
Tot Ion:152 Resp: 30182

Ion Ratio Lower Upper

152 100

115 62.9 31.4 94.2

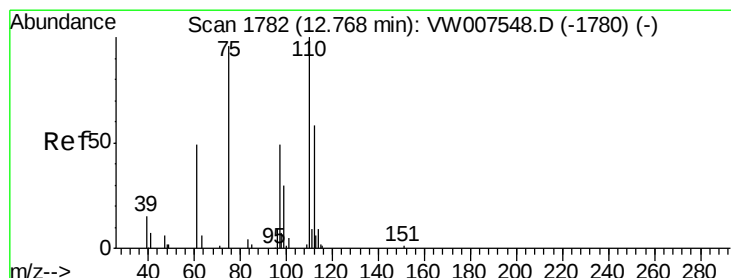
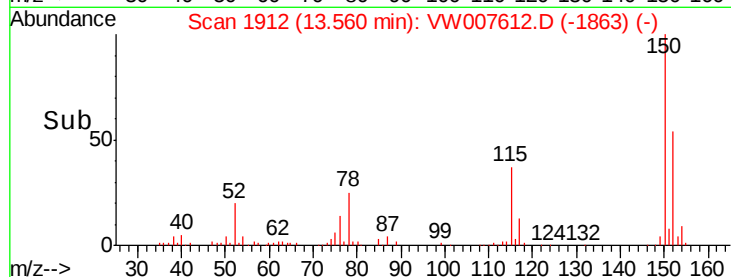
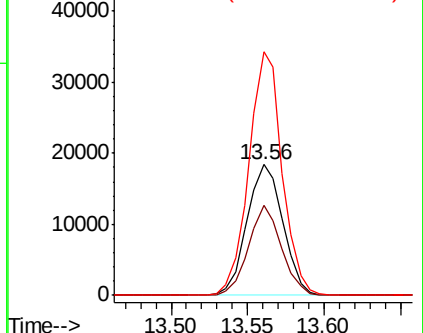
150 171.3 0.0 358.4



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: 80.849 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW007612.D

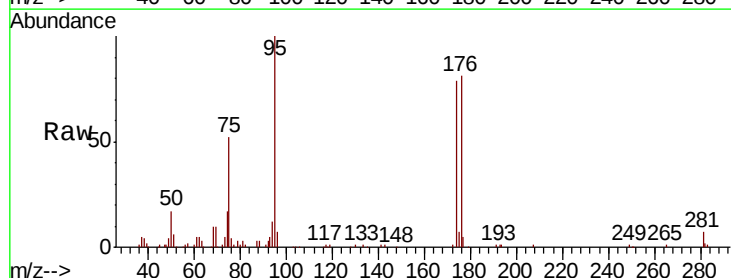
Acq: 16 Dec 2018 05:58

Tgt Ion: 75 Resp: 20120

Ion Ratio Lower Upper

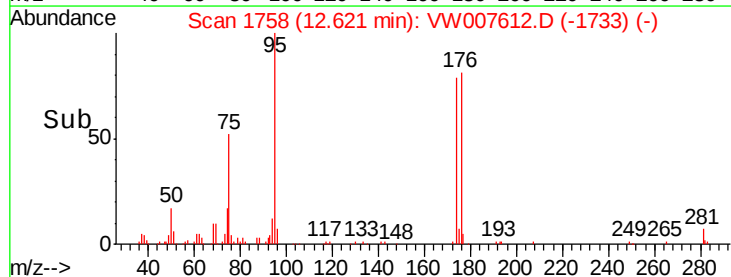
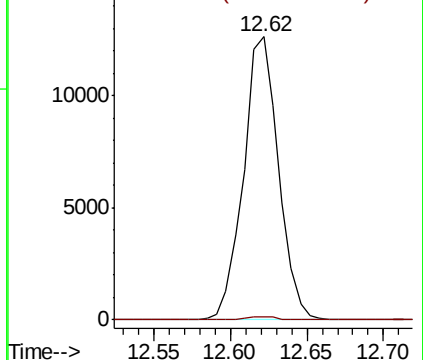
75 100

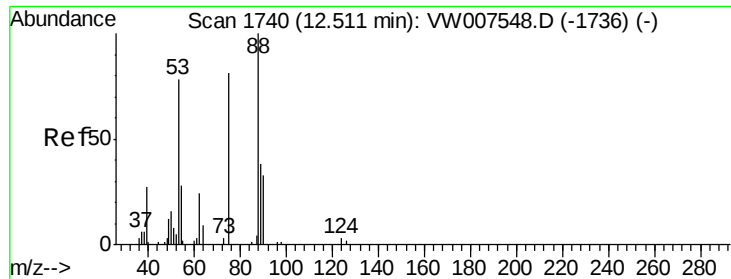
77 0.8 166.9 500.8#



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: 178.596 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW007612.D

Acq: 16 Dec 2018 05:58

Instrument :

MSVOA_W

ClientSampleId :

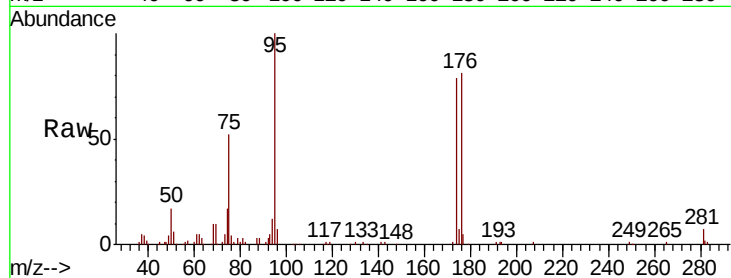
Tot Ion: 75 Resp: 20120

Ion Ratio Lower Upper

75 100

53 0.0 84.9 127.3#

89 0.0 40.3 60.5#



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

