

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW080619\
 Data File : VW011720.D
 Acq On : 05 Aug 2019 19:58
 Operator : SY/VA
 Sample : K4154-04
 Misc : 5.29G/5ML/MSVOA_W/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 PS-4

Quant Time: Aug 06 08:06:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 00:23:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	210950	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	351357	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	292546	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	121037	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	137144	56.62	ug/l	0.00
Spiked Amount			Recovery	=	113.24%	
35) Dibromofluoromethane	7.88	113	108409	55.00	ug/l	0.00
Spiked Amount			Recovery	=	110.00%	
50) Toluene-d8	10.32	98	432531	53.59	ug/l	0.00
Spiked Amount			Recovery	=	107.18%	
62) 4-Bromofluorobenzene	12.62	95	139432	48.46	ug/l	0.00
Spiked Amount			Recovery	=	96.92%	

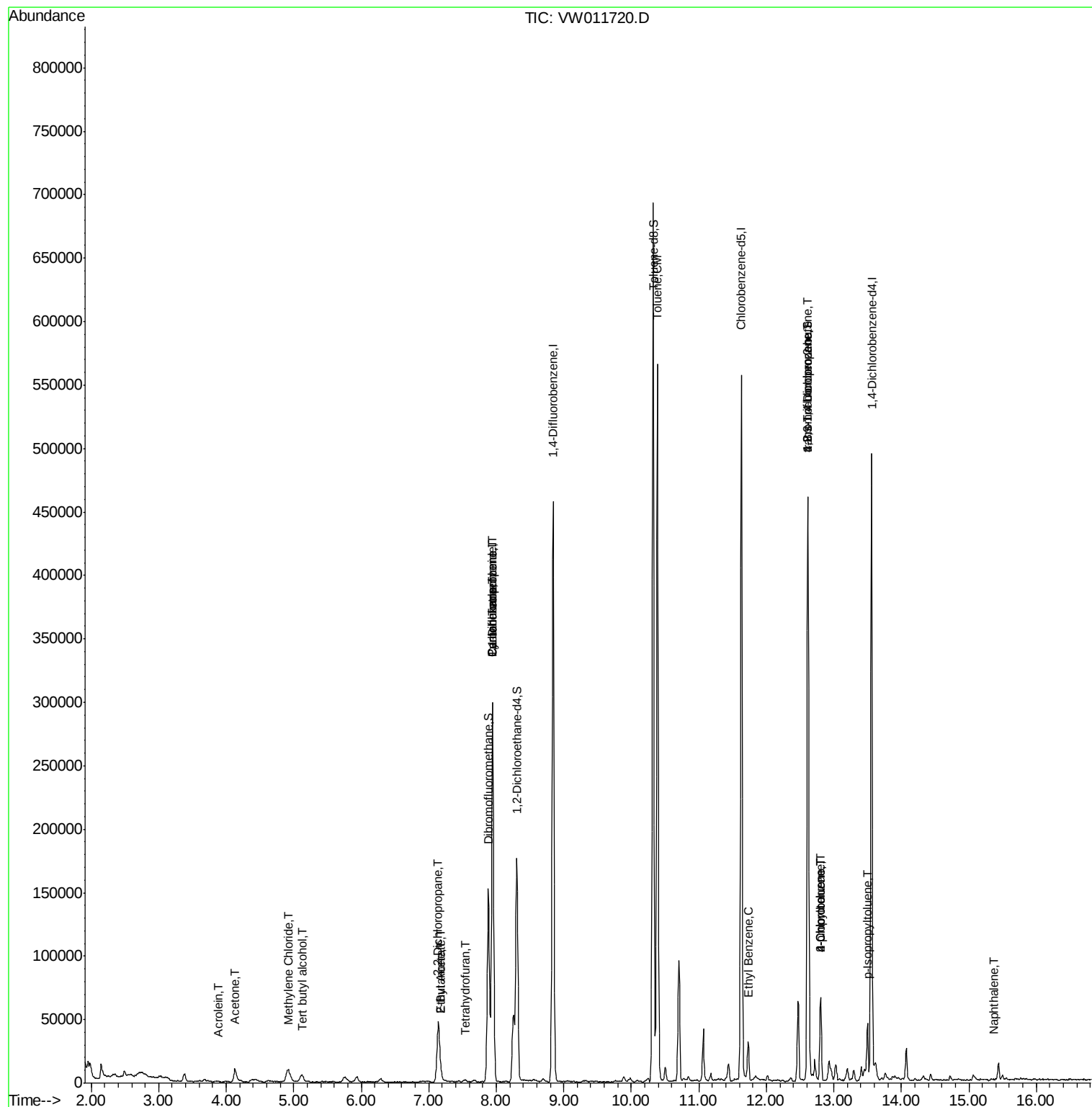
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.12	59	6135	17.754	ug/l #	74
13) Acrolein	3.89	56	230	1.323	ug/l #	66
16) Acetone	4.13	43	19377	25.148	ug/l	93
20) Methylene Chloride	4.92	84	7386	2.779	ug/l #	96
25) 2-Butanone	7.18	43	10234	10.150	ug/l	96
26) 2,2-Dichloropropane	7.14	77	3219	1.109	ug/l #	54
29) Tetrahydrofuran	7.54	42	1181	2.049	ug/l #	77
31) Cyclohexane	7.95	56	5395	1.191	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	18444	5.048	ug/l #	52
37) Ethyl Acetate	7.18	43	10234	4.869	ug/l #	74
38) Carbon Tetrachloride	7.95	117	21693	6.936	ug/l #	18
52) Toluene	10.39	92	232160	37.566	ug/l	99
67) Ethyl Benzene	11.73	91	19645	1.754	ug/l	99
76) 1,2,3-Trichloropropane	12.62	75	74338	58.044	ug/l #	100
78) n-propylbenzene	12.80	91	49237	4.481	ug/l	100
79) 2-Chlorotoluene	12.80	91	49237	7.777	ug/l #	43
81) trans-1,4-Dichloro-2-buten	12.62	75	74338	133.772	ug/l #	6
82) 4-Chlorotoluene	12.80	91	49237	7.413	ug/l #	43
86) p-Isopropyltoluene	13.50	119	21601	2.636	ug/l	95
95) Naphthalene	15.37	128	316	2.129	ug/l #	80

(#) = 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. -0.00 min

Lab File: VW011720.D

Acq: 05 Aug 2019 19:58

Instrument :

MSVOA_W

ClientSampled :

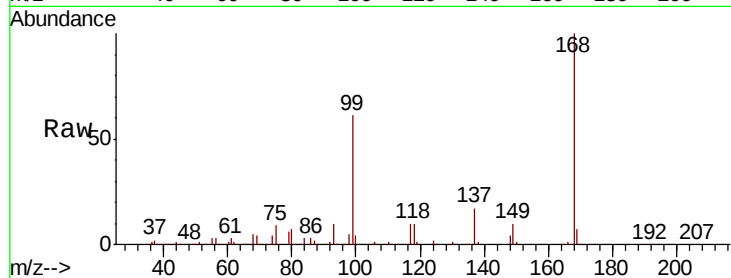
PS-4

Tgt Ion:168 Resp: 210950

Ion Ratio Lower Upper

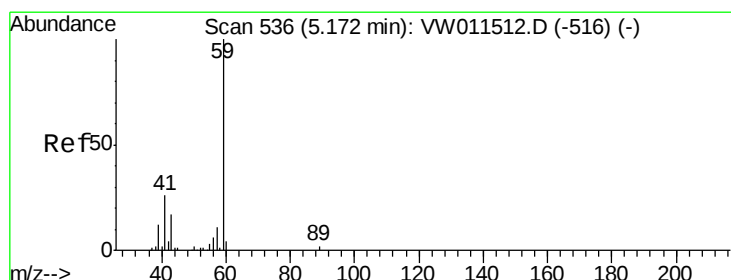
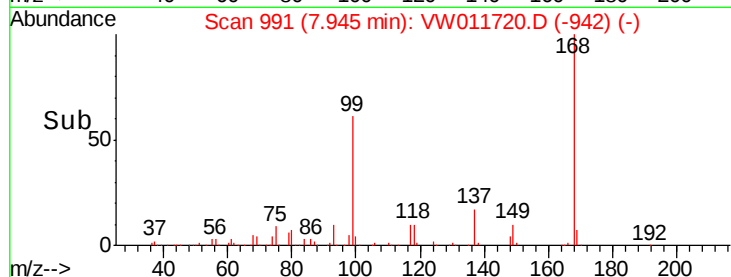
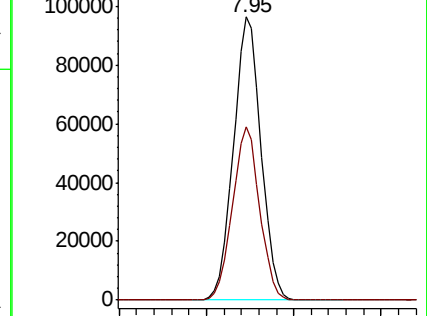
168 100

99 61.5 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 17.754 ug/l

RT: 5.12 min Scan# 527

Delta R.T. -0.05 min

Lab File: VW011720.D

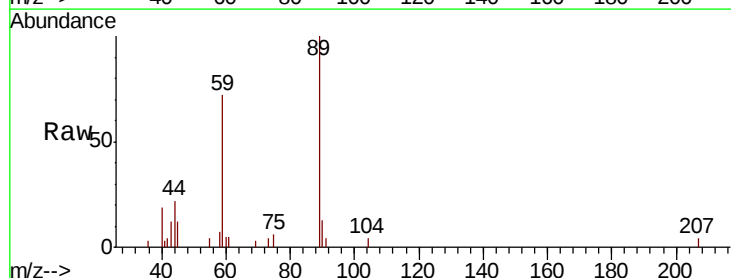
Acq: 05 Aug 2019 19:58

Tgt Ion: 59 Resp: 6135

Ion Ratio Lower Upper

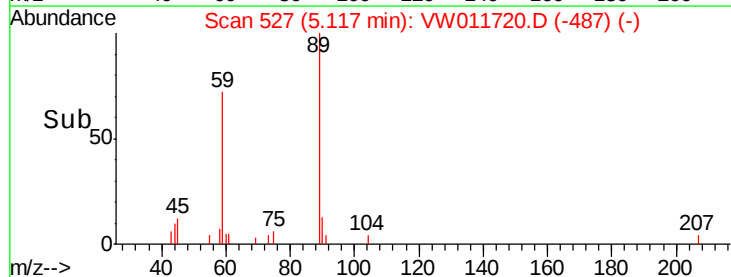
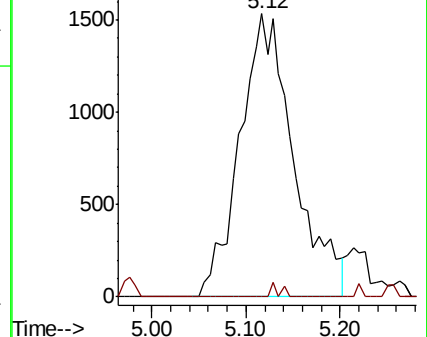
59 100

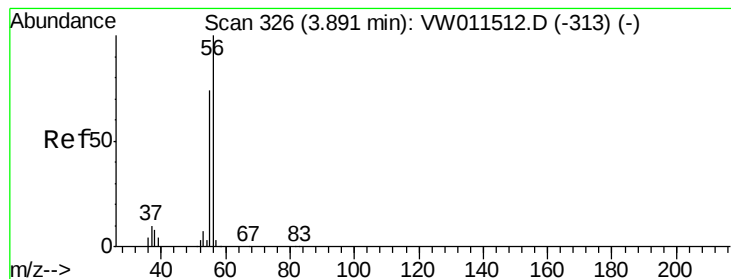
57 0.8 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 1.323 ug/l

RT: 3.89 min Scan# 326

Delta R.T. -0.00 min

Lab File: VW011720.D

Acq: 05 Aug 2019 19:58

Instrument :

MSVOA_W

ClientSampled :

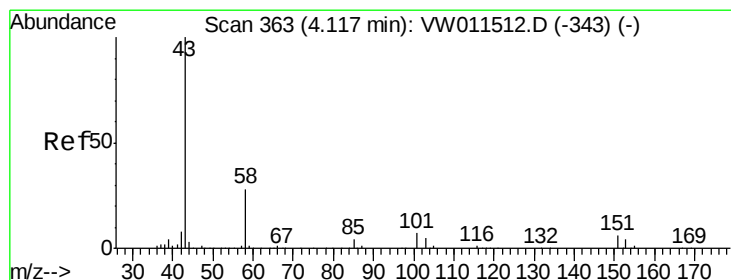
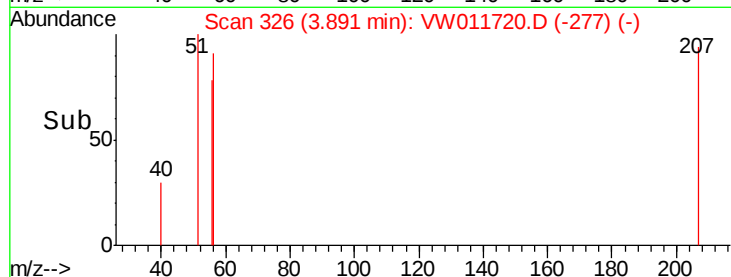
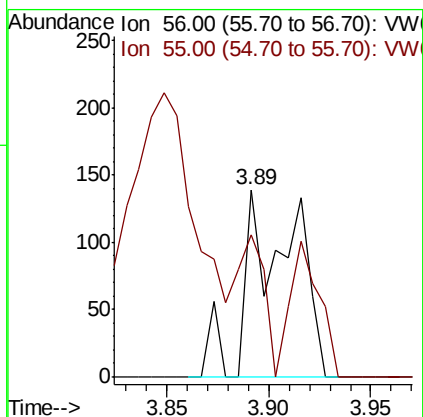
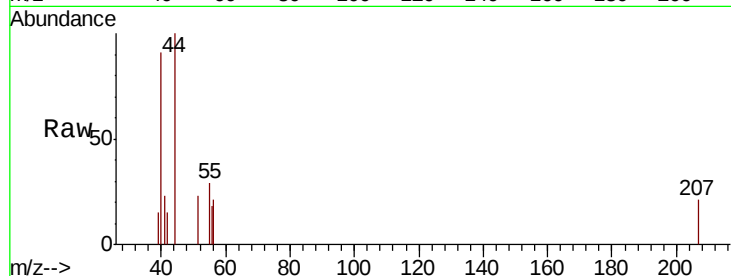
PS-4

Tgt Ion: 56 Resp: 230

Ion Ratio Lower Upper

56 100

55 42.2 56.0 84.0#



#16

Acetone

Concen: 25.148 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW011720.D

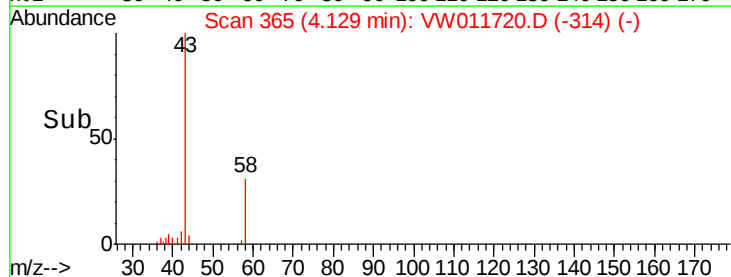
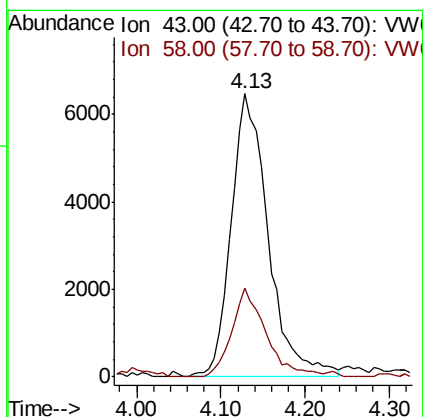
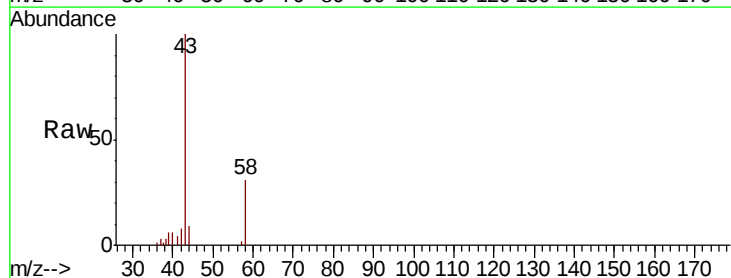
Acq: 05 Aug 2019 19:58

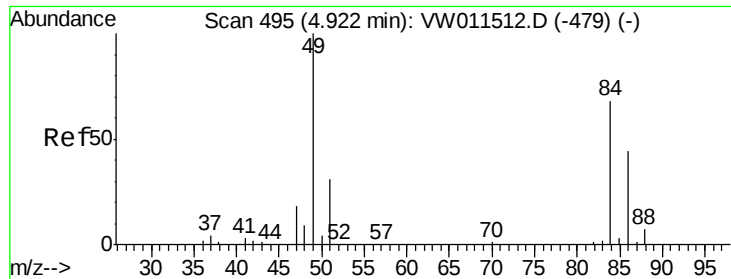
Tgt Ion: 43 Resp: 19377

Ion Ratio Lower Upper

43 100

58 31.5 22.3 33.5

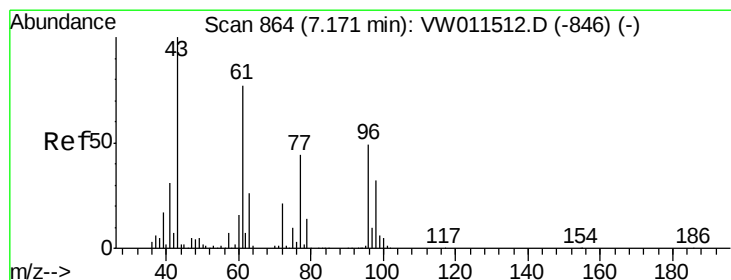
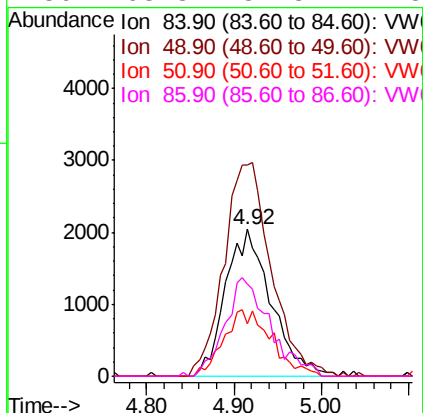
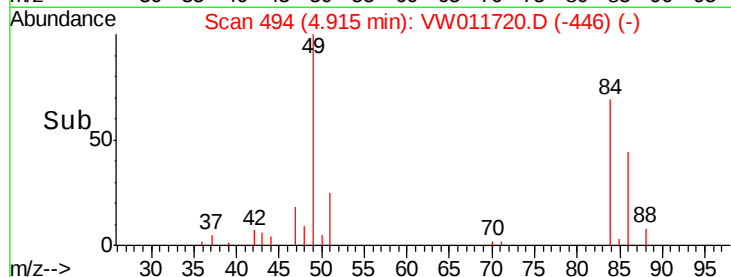
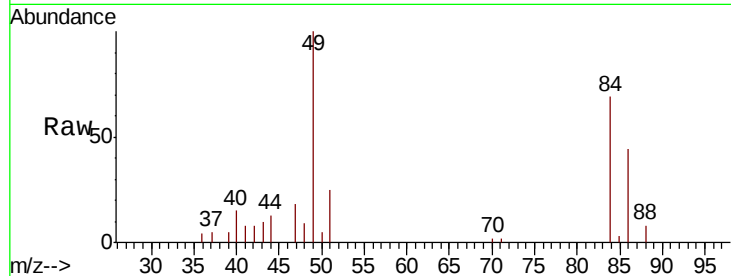




#20
Methylene Chloride
Concen: 2.779 ug/l
RT: 4.92 min Scan# 494
Delta R.T. -0.01 min
Lab File: VW011720.D
Acq: 05 Aug 2019 19:58

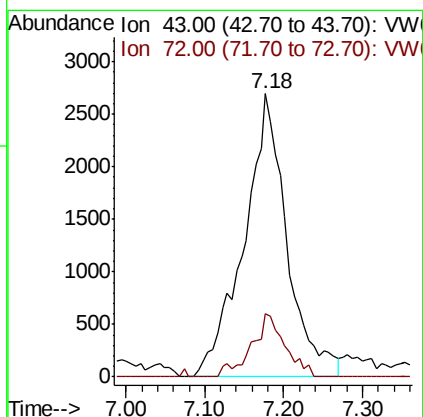
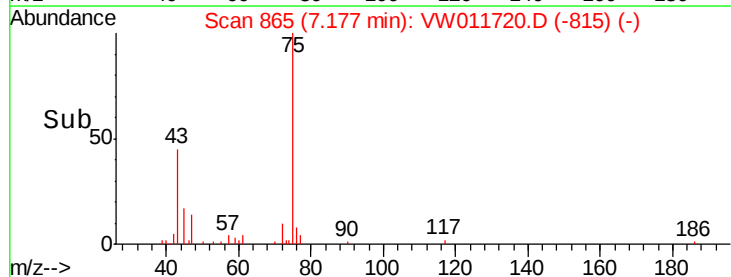
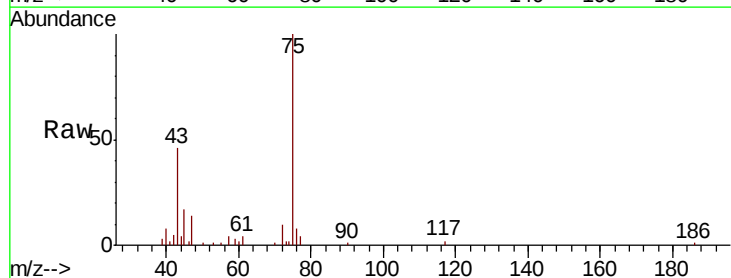
Instrument :
MSVOA_W
ClientSampleId :
PS-4

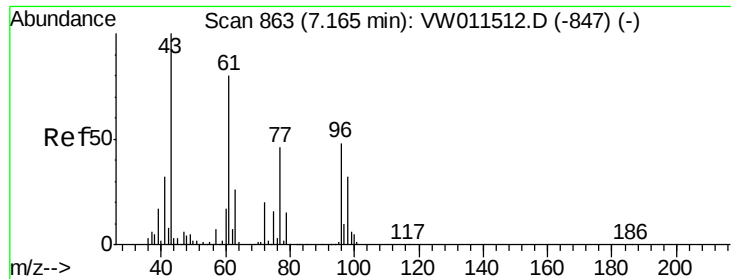
Tgt Ion: 84 Resp: 7386
Ion Ratio Lower Upper
84 100
49 144.3 117.8 176.6
51 36.2 37.0 55.4#
86 63.3 51.8 77.8



#25
2-Butanone
Concen: 10.150 ug/l
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW011720.D
Acq: 05 Aug 2019 19:58

Tgt Ion: 43 Resp: 10234
Ion Ratio Lower Upper
43 100
72 22.4 16.6 24.8

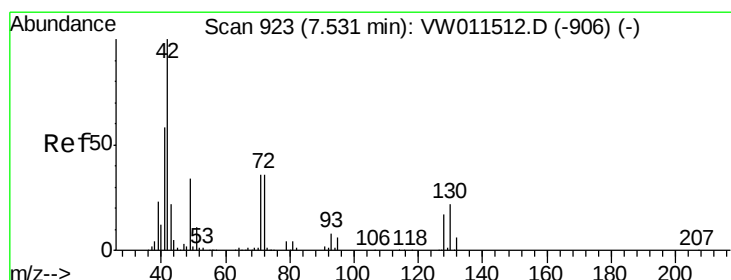
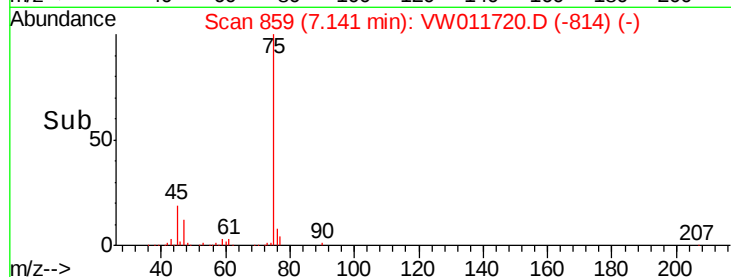
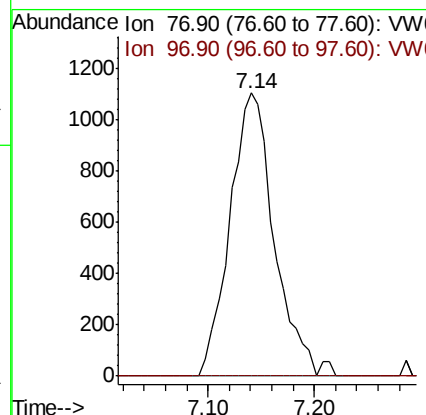
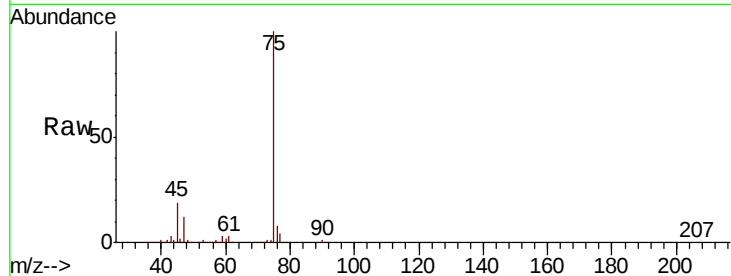




#26
 2,2-Dichloropropane
 Concen: 1.109 ug/l
 RT: 7.14 min Scan# 859
 Delta R.T. -0.02 min
 Lab File: VW011720.D
 Acq: 05 Aug 2019 19:58

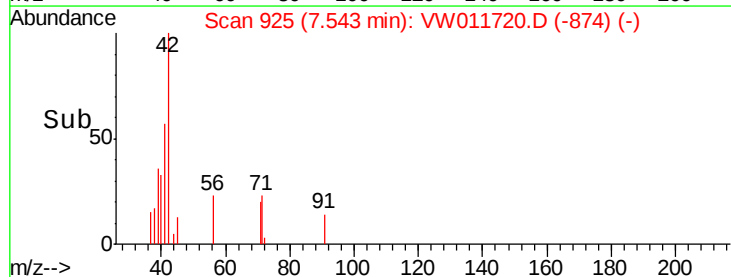
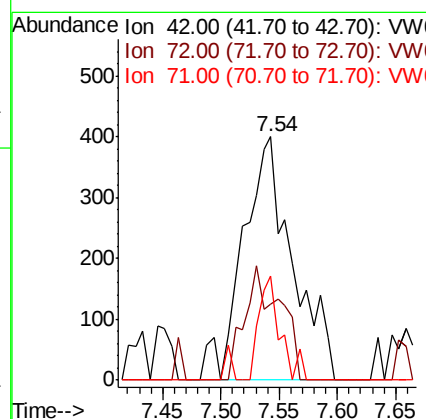
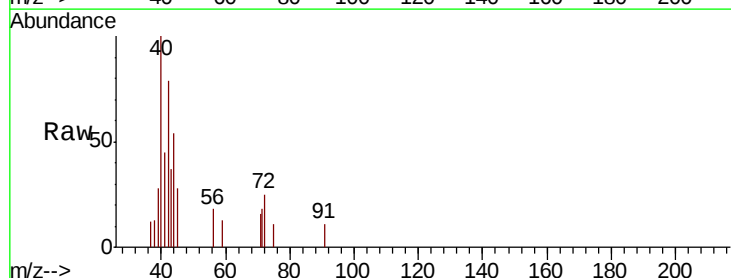
Instrument :
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 ClientSampleId :
 PS-4

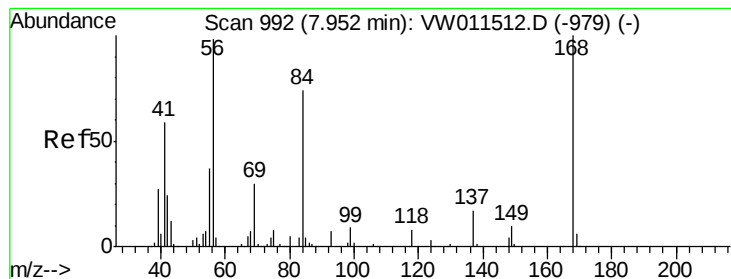
Tgt Ion: 77 Resp: 3219
 Ion Ratio Lower Upper
 77 100
 97 0.0 10.8 32.4#



#29
 Tetrahydrofuran
 Concen: 2.049 ug/l
 RT: 7.54 min Scan# 925
 Delta R.T. 0.01 min
 Lab File: VW011720.D
 Acq: 05 Aug 2019 19:58

Tgt Ion: 42 Resp: 1181
 Ion Ratio Lower Upper
 42 100
 72 22.4 27.1 40.7#
 71 18.5 26.2 39.4#





#31

Cyclohexane

Concen: 1.191 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW011720.D

Acq: 05 Aug 2019 19:58

Instrument :

MSVOA_W

ClientSampled :

PS-4

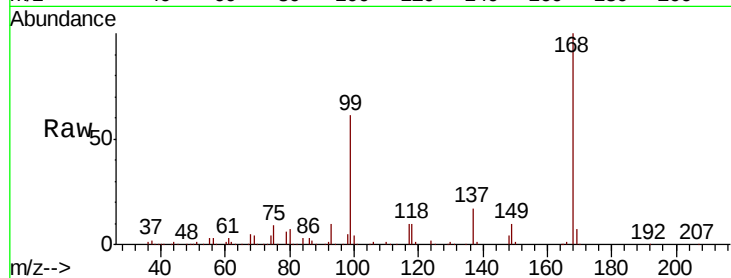
Tgt Ion: 56 Resp: 5395

Ion Ratio Lower Upper

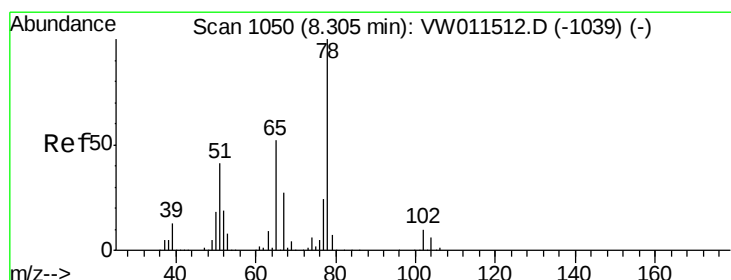
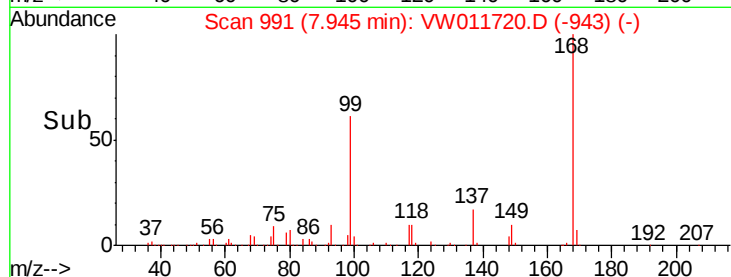
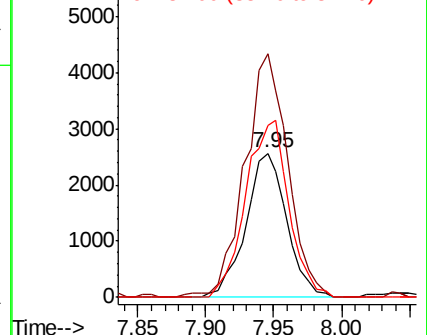
56 100

69 169.3 24.3 36.5#

84 119.7 60.4 90.6#



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: 56.617 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW011720.D

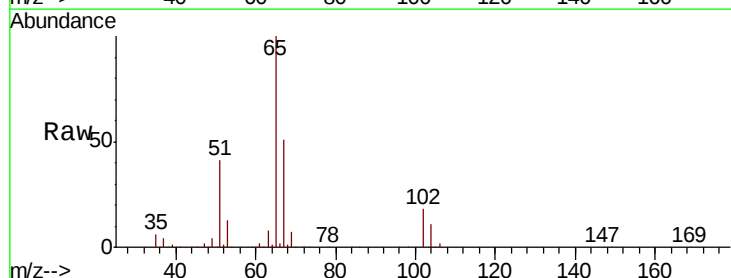
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Tgt Ion: 65 Resp: 137144

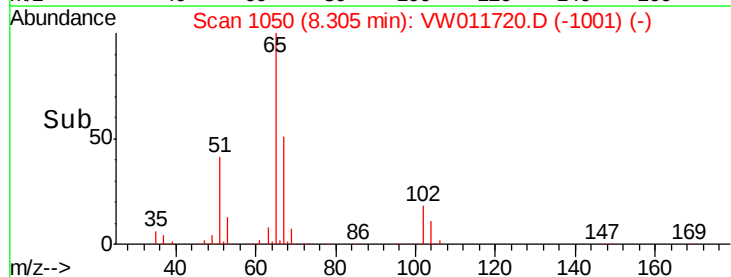
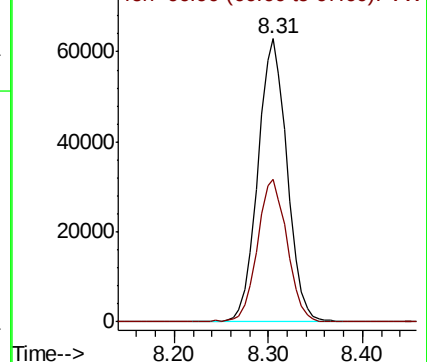
Ion Ratio Lower Upper

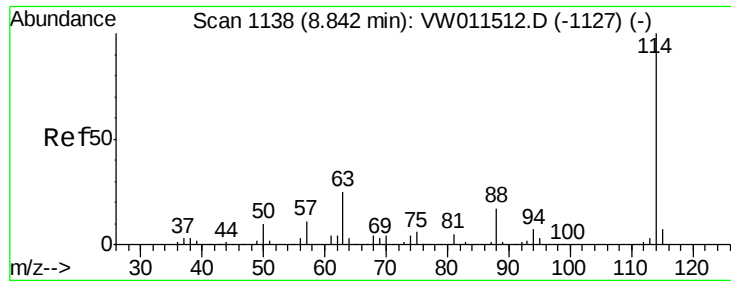
65 100

67 51.5 0.0 105.2



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

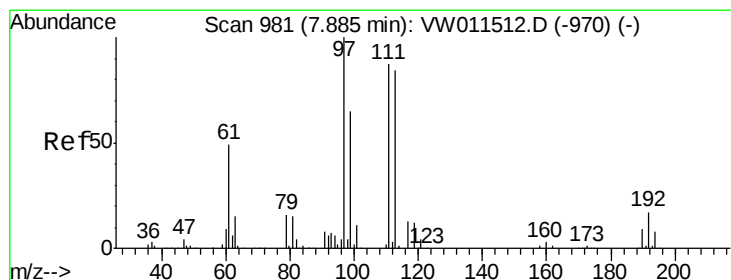
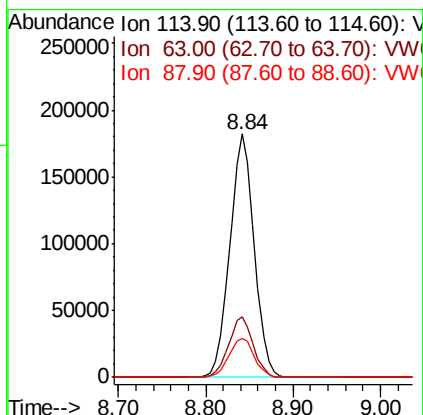
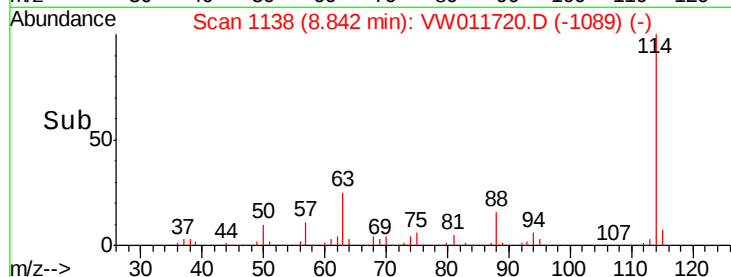
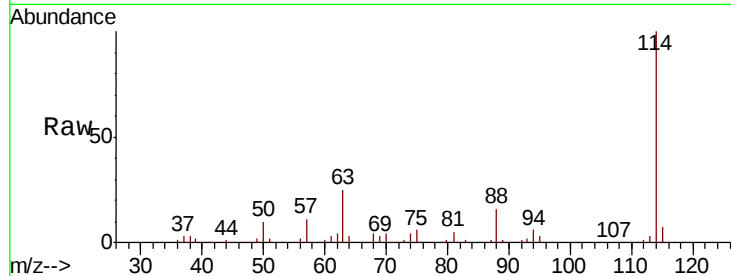




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW011720.D
 Acq: 05 Aug 2019 19:58

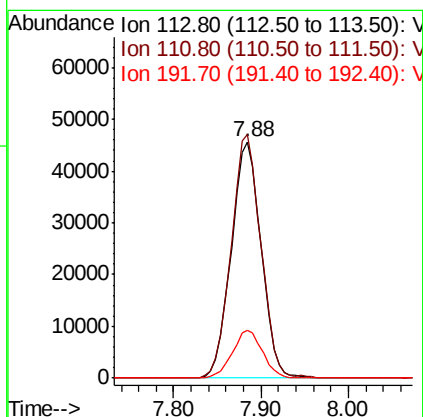
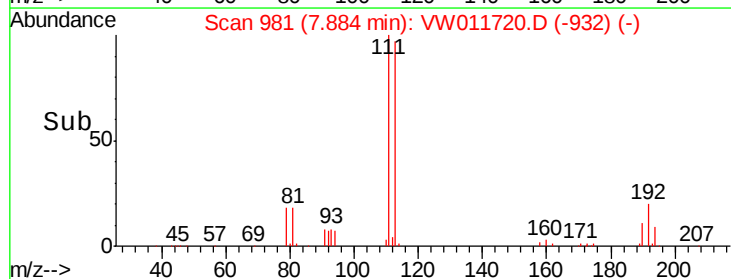
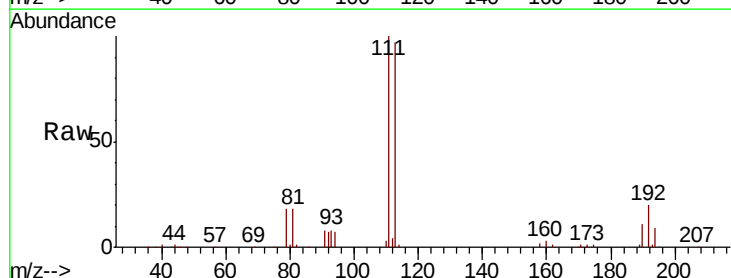
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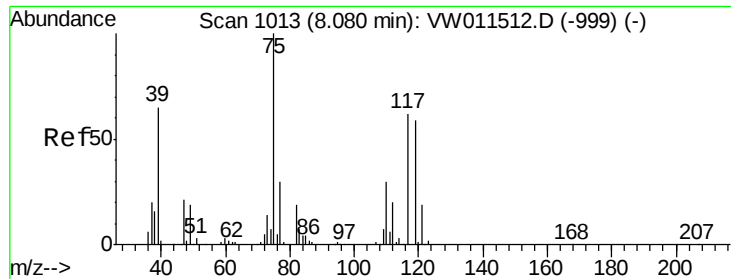
Tgt Ion:114 Resp: 351357
 Ion Ratio Lower Upper
 114 100
 63 24.8 0.0 49.2
 88 16.1 0.0 33.8



#35
 Dibromofluoromethane
 Concen: 54.997 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW011720.D
 Acq: 05 Aug 2019 19:58

Tgt Ion:113 Resp: 108409
 Ion Ratio Lower Upper
 113 100
 111 102.3 82.7 124.1
 192 20.4 16.1 24.1

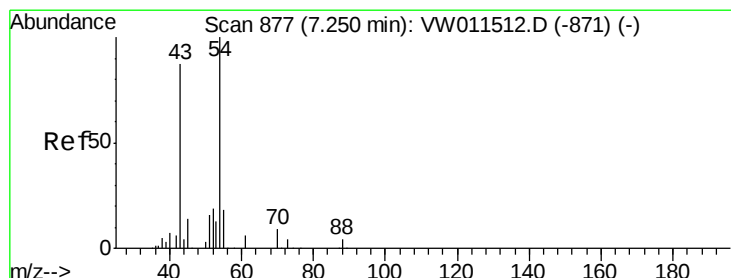
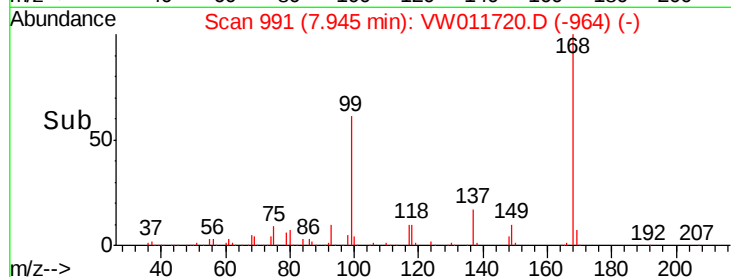
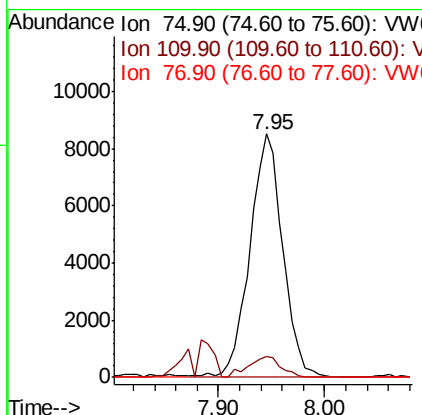
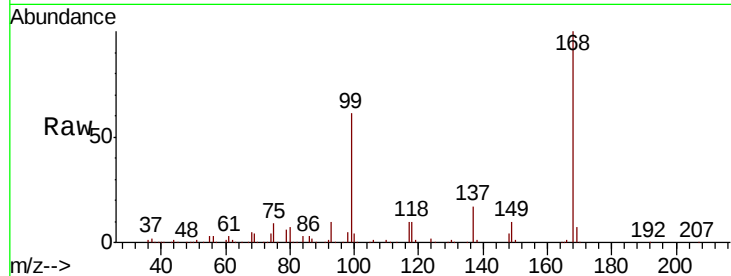




#36
 1,1-Dichloropropene
 Concen: 5.048 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW011720.D
 Acq: 05 Aug 2019 19:58

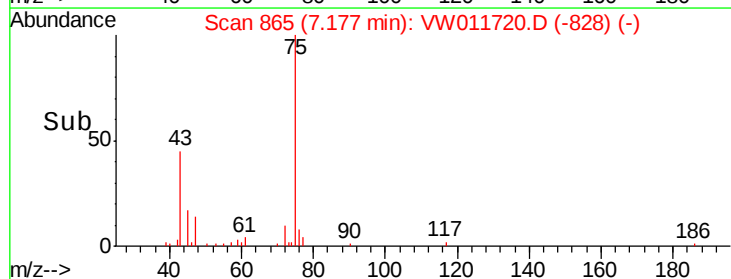
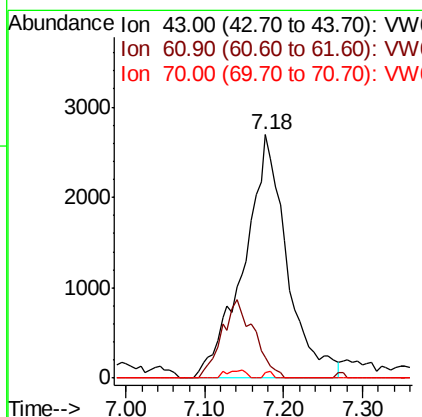
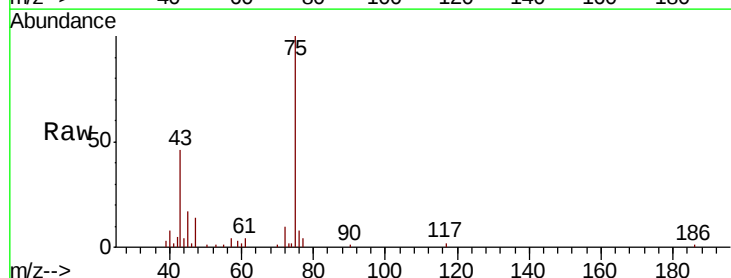
Instrument :
 MSVOA_W
 ClientSampled :
 PS-4

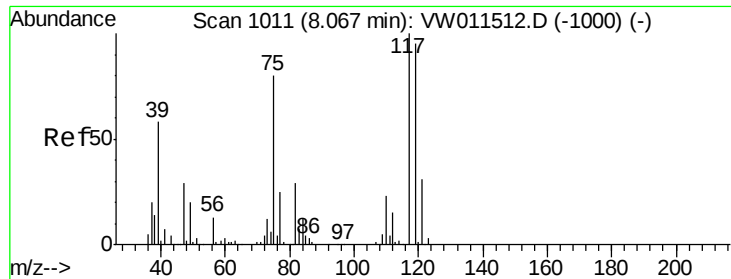
Tgt Ion: 75 Resp: 18444
 Ion Ratio Lower Upper
 75 100
 110 8.5 15.6 46.8#
 77 0.0 24.3 36.5#



#37
 Ethyl Acetate
 Concen: 4.869 ug/l
 RT: 7.18 min Scan# 865
 Delta R.T. -0.07 min
 Lab File: VW011720.D
 Acq: 05 Aug 2019 19:58

Tgt Ion: 43 Resp: 10234
 Ion Ratio Lower Upper
 43 100
 61 0.0 8.8 13.2#
 70 0.5 7.1 10.7#

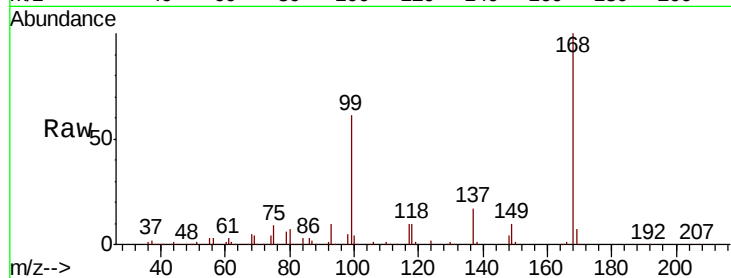




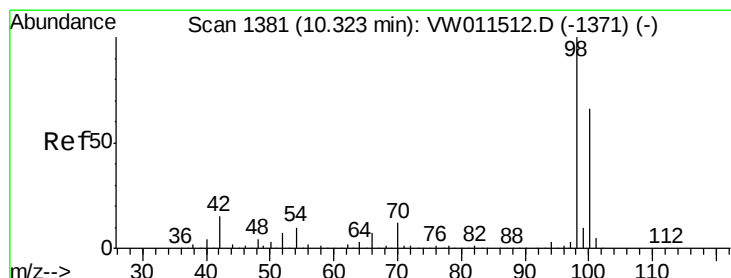
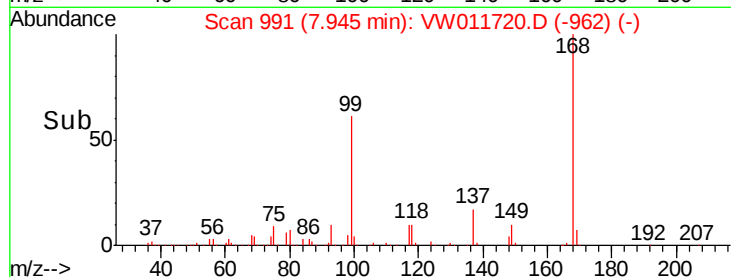
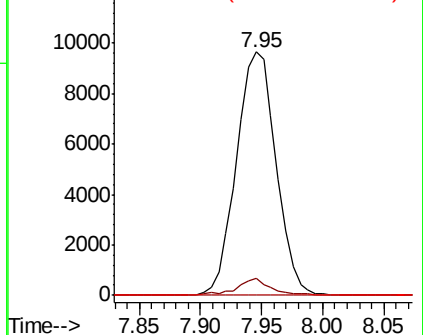
#38
Carbon Tetrachloride
Concen: 6.936 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW011720.D
Acq: 05 Aug 2019 19:58

Instrument :
MSVOA_W
ClientSampleId :
PS-4

Tgt Ion:117 Resp: 21693
Ion Ratio Lower Upper
117 100
119 7.1 75.8 113.6#
121 0.0 24.7 37.1#

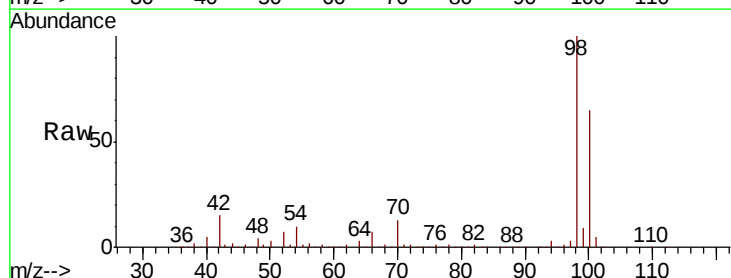


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

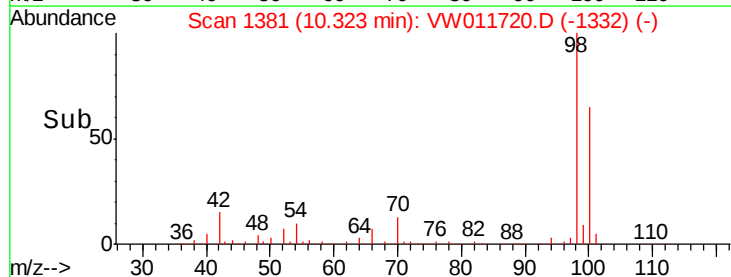
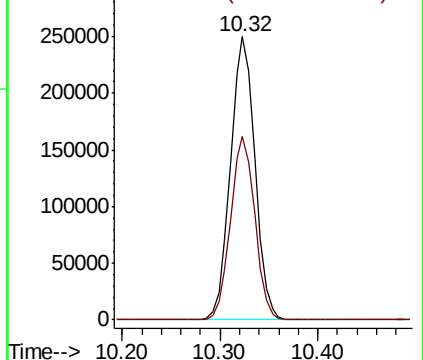


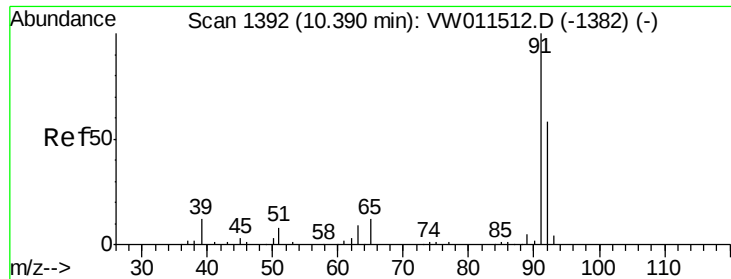
#50
Toluene-d8
Concen: 53.594 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW011720.D
Acq: 05 Aug 2019 19:58

Tgt Ion: 98 Resp: 432531
Ion Ratio Lower Upper
98 100
100 64.5 52.7 79.1



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





#52

Toluene

Concen: 37.566 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW011720.D

Acq: 05 Aug 2019 19:58

Instrument :

MSVOA_W

ClientSampleId :

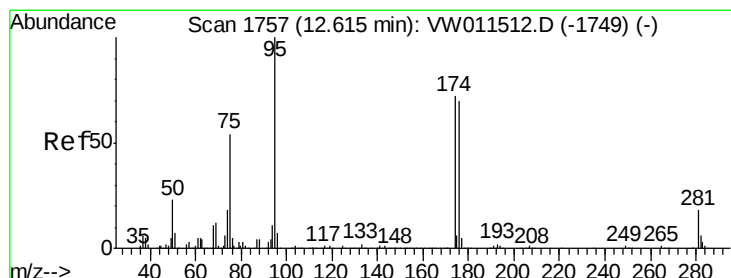
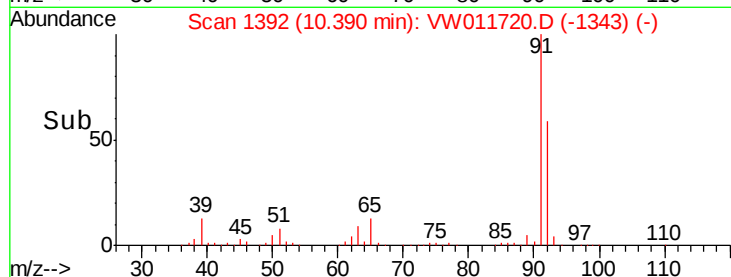
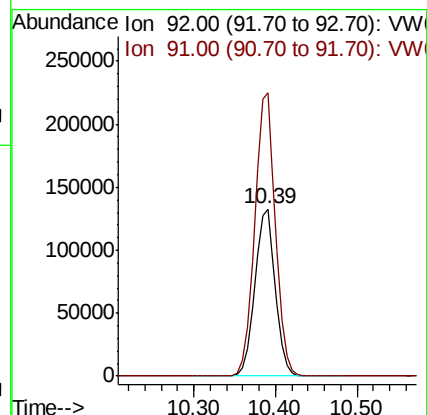
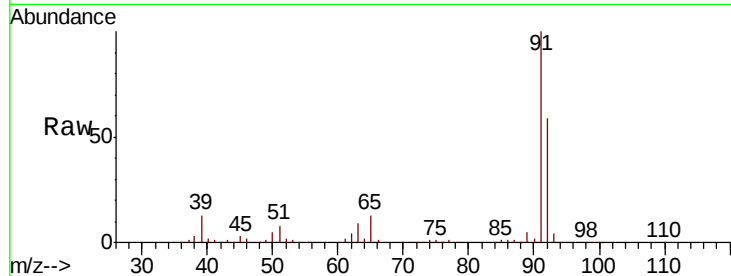
PS-4

Tgt Ion: 92 Resp: 232160

Ion Ratio Lower Upper

92 100

91 171.7 136.7 205.1



#62

4-Bromofluorobenzene

Concen: 48.459 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW011720.D

Acq: 05 Aug 2019 19:58

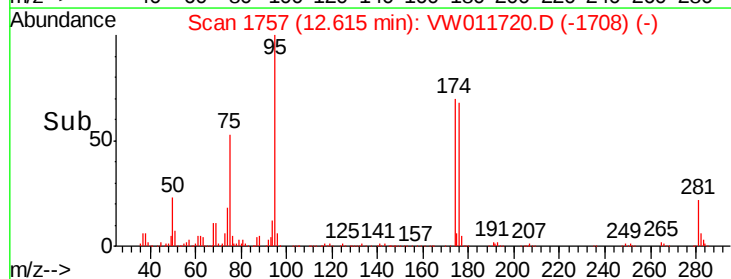
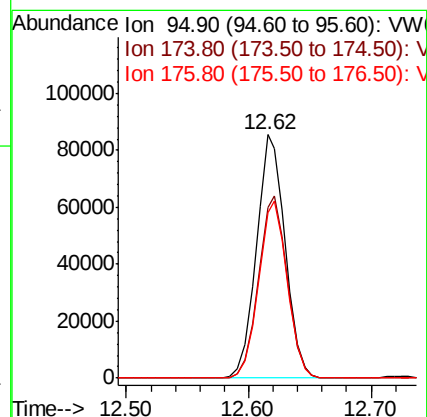
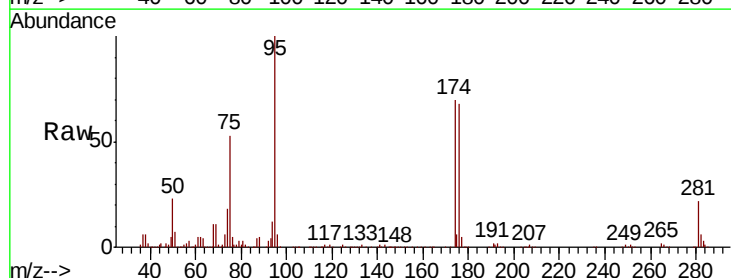
Tgt Ion: 95 Resp: 139432

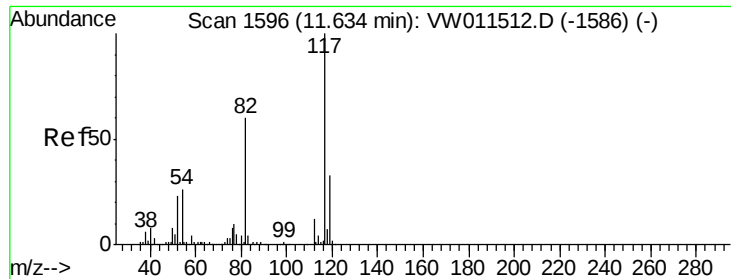
Ion Ratio Lower Upper

95 100

174 75.1 0.0 150.2

176 72.8 0.0 144.4

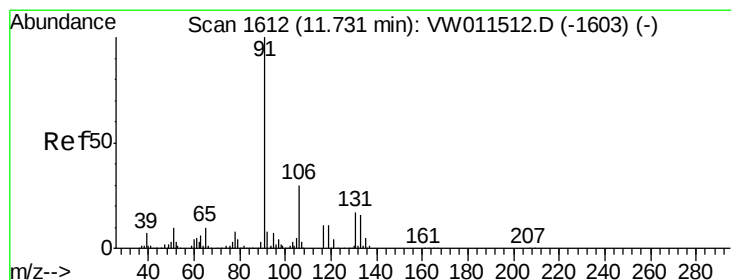
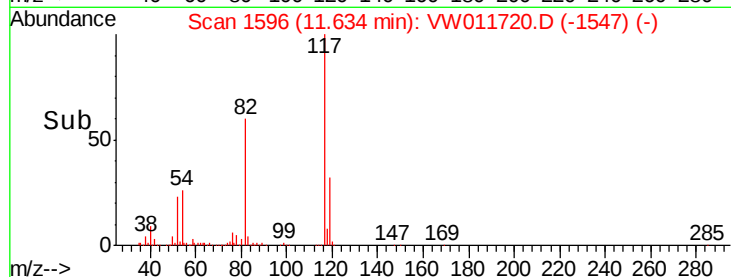
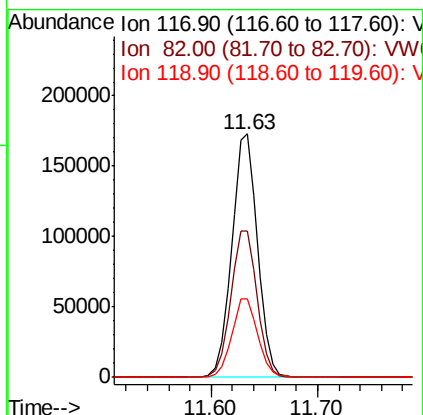
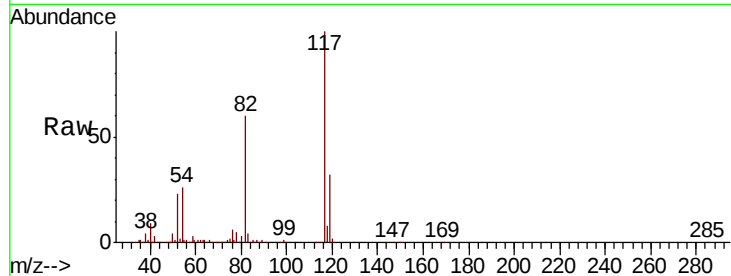




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW011720.D
Acq: 05 Aug 2019 19:58

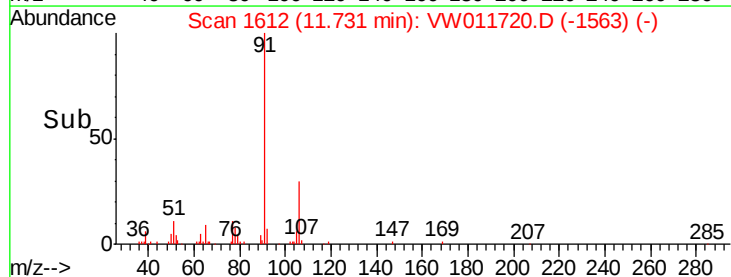
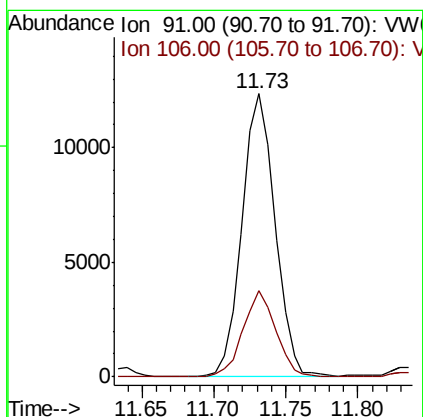
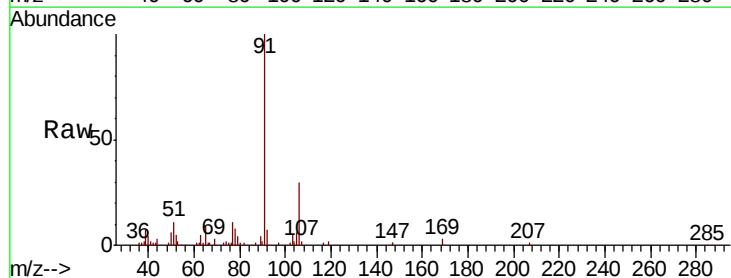
Instrument :
MSVOA_W
ClientSampleId :
PS-4

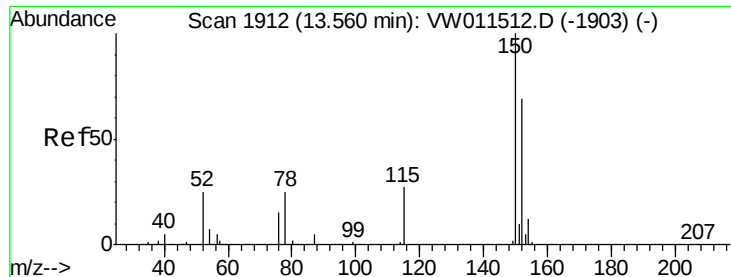
Tgt Ion:117 Resp: 292546
Ion Ratio Lower Upper
117 100
82 60.2 47.9 71.9
119 32.3 26.2 39.2



#67
Ethyl Benzene
Concen: 1.754 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW011720.D
Acq: 05 Aug 2019 19:58

Tgt Ion: 91 Resp: 19645
Ion Ratio Lower Upper
91 100
106 30.5 23.8 35.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW011720.D

Acq: 05 Aug 2019 19:58

Instrument :

MSVOA_W

ClientSampleId :

PS-4

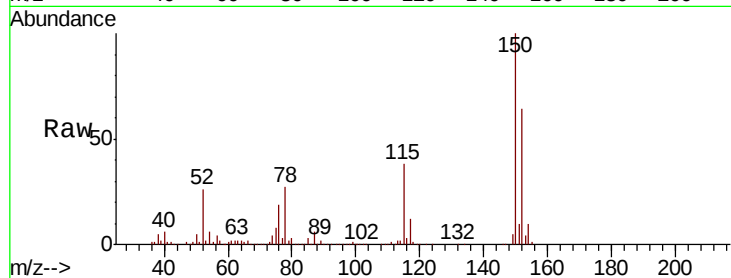
Tgt Ion: 152 Resp: 121037

Ion Ratio Lower Upper

152 100

115 61.0 30.5 91.5

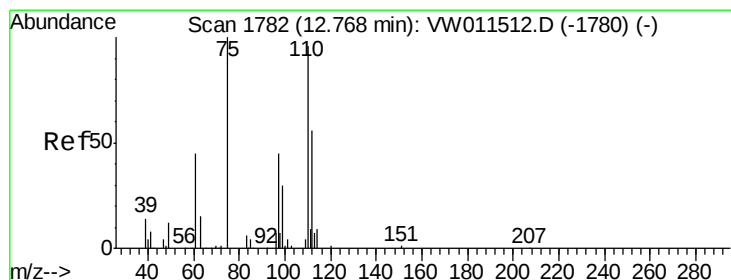
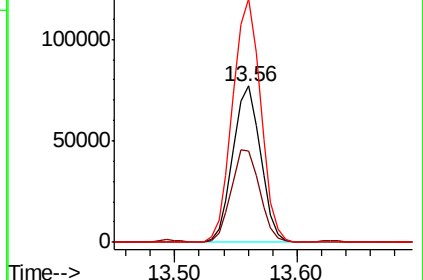
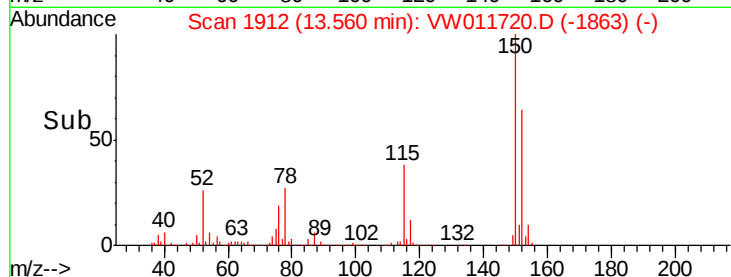
150 156.8 0.0 352.6



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: 58.044 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011720.D

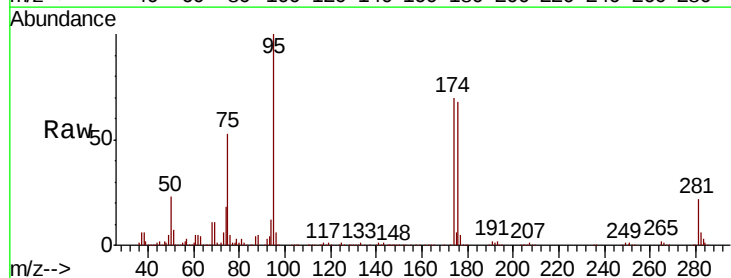
Acq: 05 Aug 2019 19:58

Tgt Ion: 75 Resp: 74338

Ion Ratio Lower Upper

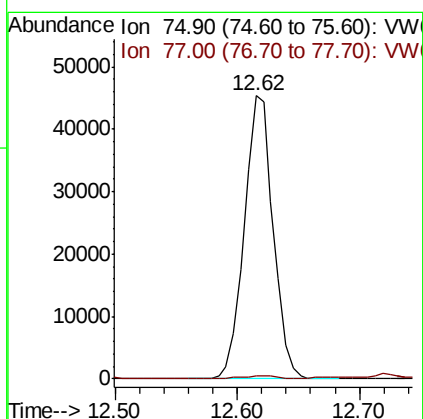
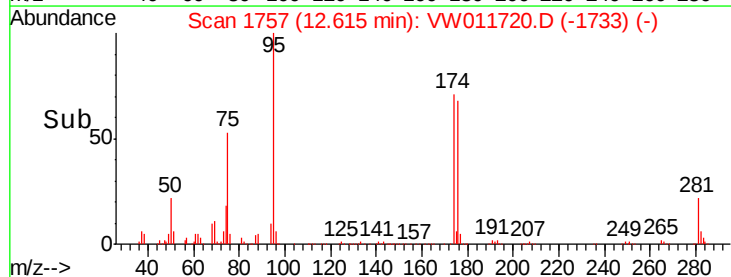
75 100

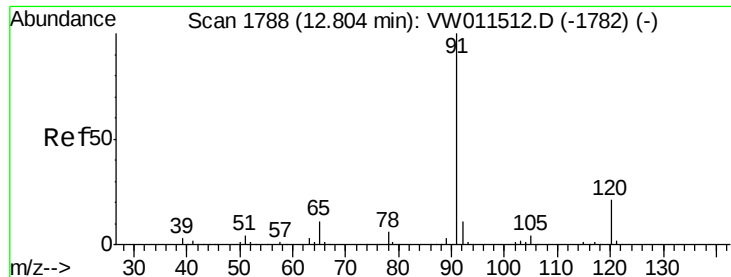
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

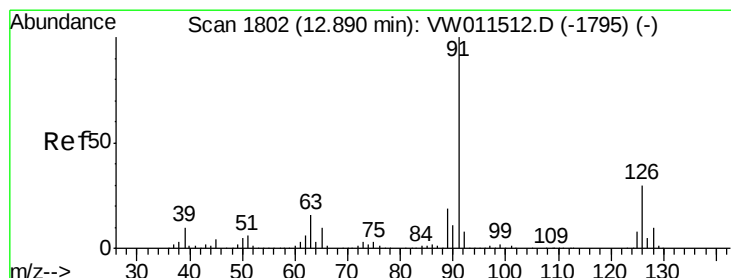
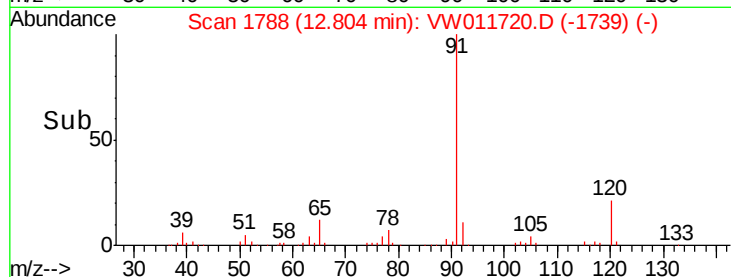
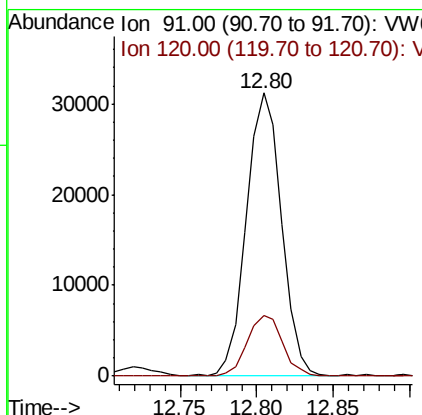
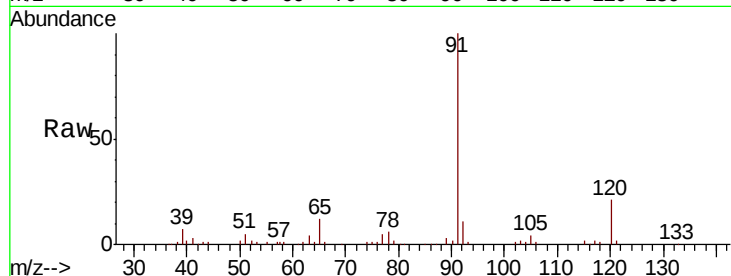




#78
n-propylbenzene
Concen: 4.481 ug/l
RT: 12.80 min Scan# 1788
Delta R.T. -0.00 min
Lab File: VW011720.D
Acq: 05 Aug 2019 19:58

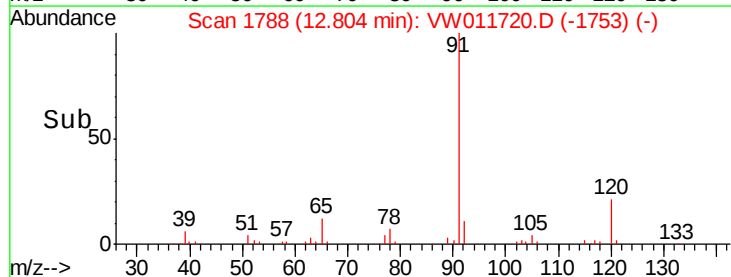
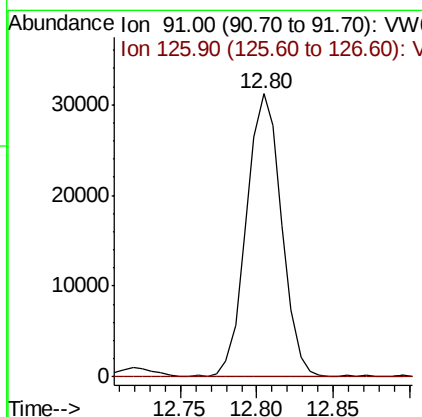
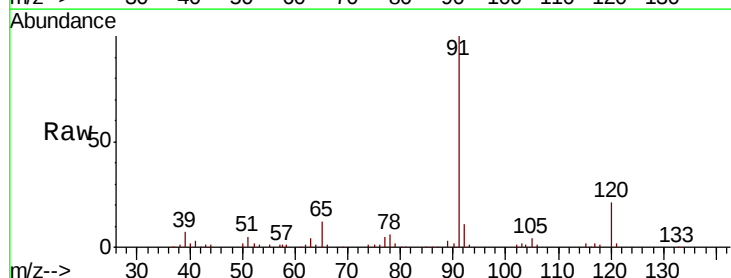
Instrument :
MSVOA_W
ClientSampled :
PS-4

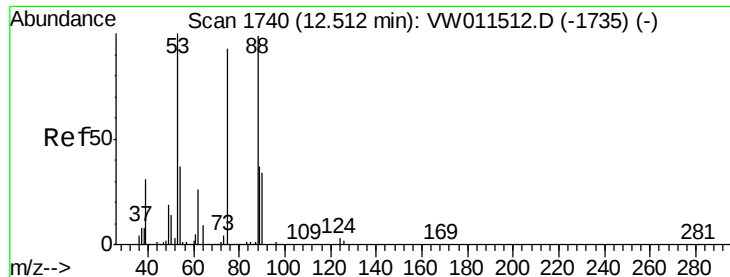
Tgt Ion: 91 Resp: 49237
Ion Ratio Lower Upper
91 100
120 21.8 10.9 32.7



#79
2-Chlorotoluene
Concen: 7.777 ug/l
RT: 12.80 min Scan# 1788
Delta R.T. -0.09 min
Lab File: VW011720.D
Acq: 05 Aug 2019 19:58

Tgt Ion: 91 Resp: 49237
Ion Ratio Lower Upper
91 100
126 0.0 15.7 47.1#





#81

trans-1,4-Dichloro-2-butene

Concen: 133.772 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW011720.D

Acq: 05 Aug 2019 19:58

Instrument :

MSVOA_W

ClientSampleId :

PS-4

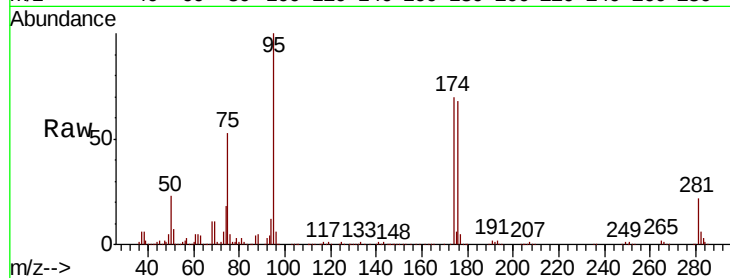
Tgt Ion: 75 Resp: 74338

Ion Ratio Lower Upper

75 100

53 0.0 88.0 132.0#

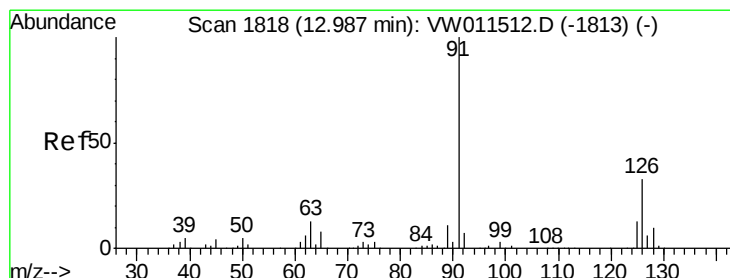
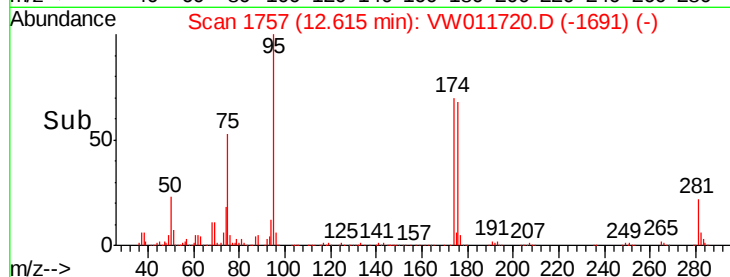
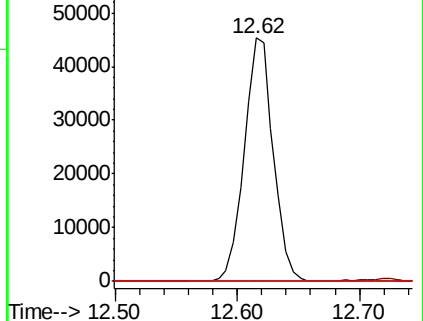
89 0.2 35.3 52.9#



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



#82

4-Chlorotoluene

Concen: 7.413 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.18 min

Lab File: VW011720.D

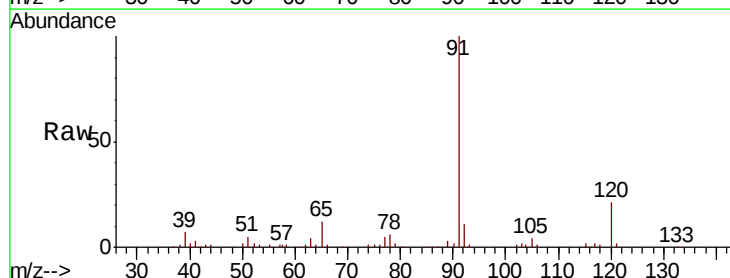
Acq: 05 Aug 2019 19:58

Tgt Ion: 91 Resp: 49237

Ion Ratio Lower Upper

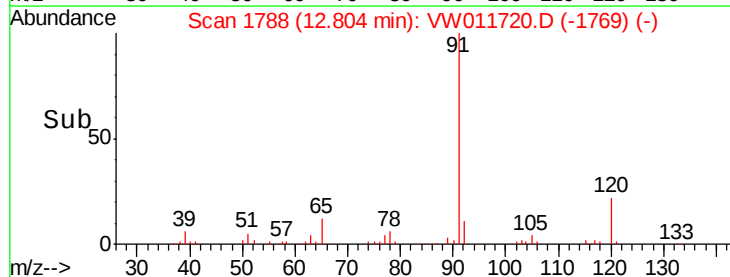
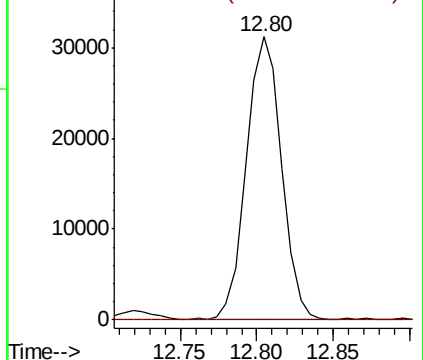
91 100

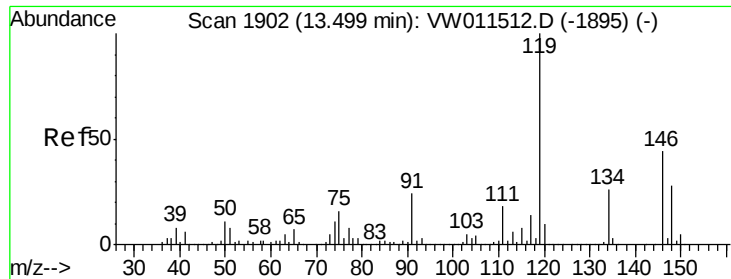
126 0.0 15.6 46.8#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V

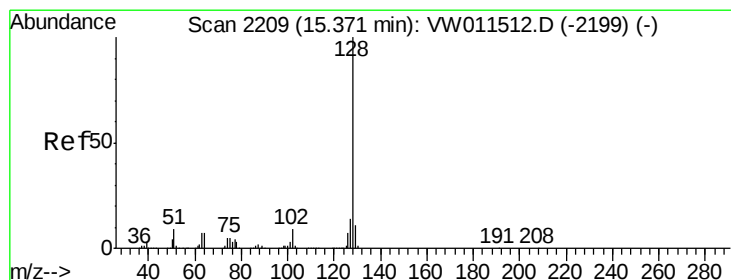
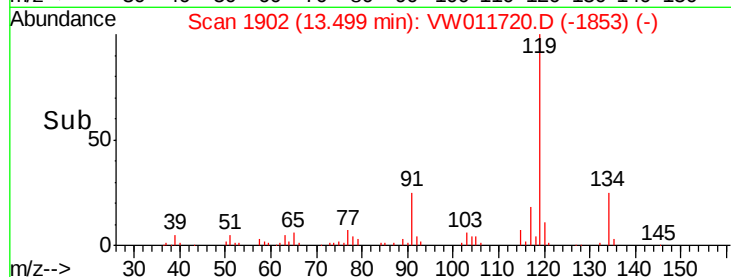
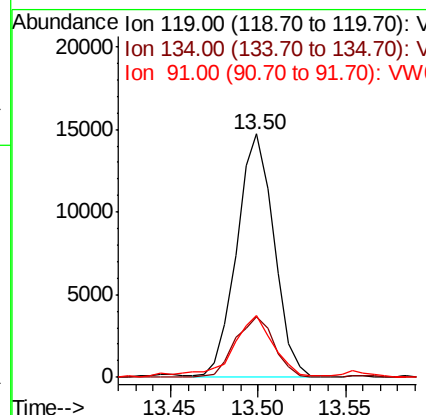
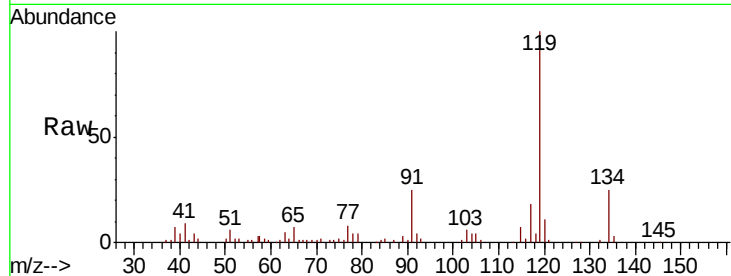




#86
p-Isopropyltoluene
Concen: 2.636 ug/l
RT: 13.50 min Scan# 1902
Delta R.T. -0.00 min
Lab File: VW011720.D
Acq: 05 Aug 2019 19:58

Instrument :
MSVOA_W
ClientSampleId :
PS-4

Tgt Ion:119 Resp: 21601
Ion Ratio Lower Upper
119 100
134 26.5 12.8 38.4
91 28.7 12.1 36.3



#95
Naphthalene
Concen: 2.129 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW011720.D
Acq: 05 Aug 2019 19:58

Tgt Ion:128 Resp: 316
Ion Ratio Lower Upper
128 100
127 0.0 10.6 16.0#
129 9.2 8.6 13.0

