

Data File : VW008630.D
Acq On : 12 Feb 2019 18:32
Operator : SY/VA
Sample : K1343-13RE
Misc : 5.95G/5ML/MSVOA_W/SOIL
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
JC-02-021119-G

Quant Time: Feb 13 00:24:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W012419S.M
Quant Title : SW846 8260
QLast Update : Fri Jan 25 11:07:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.94	168	265460	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	425638	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	370000	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	163443	50.00	ug/l	0.00

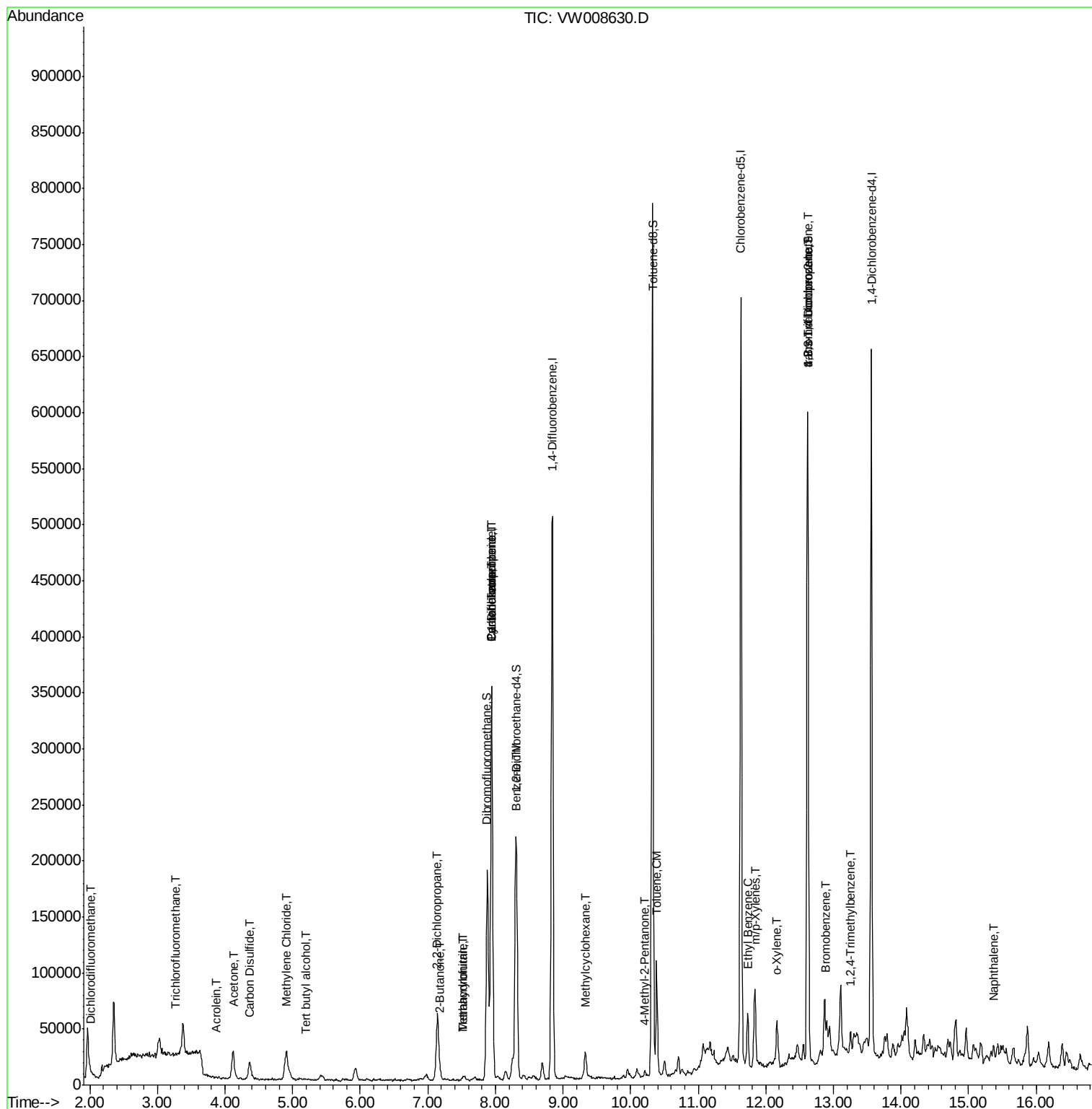
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	141963	54.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.88%	
35) Dibromofluoromethane	7.88	113	129001	51.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.66%	
50) Toluene-d8	10.32	98	498302	49.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.86%	
62) 4-Bromofluorobenzene	12.62	95	171223	44.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.26%	

Target Compounds			Qvalue			
2) Dichlorodifluoromethane	2.01	85	86	3.305	ug/l #	41
7) Trichlorofluoromethane	3.26	101	312	4.843	ug/l #	24
11) Tert butyl alcohol	5.19	59	981	4.672	ug/l	98
13) Acrolein	3.88	56	613	7.439	ug/l #	51
16) Acetone	4.12	43	41660	71.136	ug/l	99
17) Carbon Disulfide	4.37	76	31353	4.040	ug/l #	94
20) Methylene Chloride	4.90	84	15533	5.755	ug/l	95
25) 2-Butanone	7.18	43	7771	9.553	ug/l #	80
26) 2,2-Dichloropropane	7.14	77	4421	1.321	ug/l #	56
29) Tetrahydrofuran	7.52	42	2788	5.409	ug/l	96
31) Cyclohexane	7.94	56	10469	2.045	ug/l #	44
36) 1,1-Dichloropropene	7.94	75	19728	4.907	ug/l #	49
38) Carbon Tetrachloride	7.94	117	25953	6.415	ug/l #	18
39) Methylcyclohexane	9.33	83	9259	1.753	ug/l	91
40) Benzene	8.32	78	50313	4.510	ug/l	99
41) Methacrylonitrile	7.52	41	1599	1.518	ug/l #	50
51) 4-Methyl-2-Pentanone	10.21	43	3077	1.685	ug/l	98
52) Toluene	10.38	92	41604	5.649	ug/l	99
67) Ethyl Benzene	11.73	91	31060	2.237	ug/l	93
68) m/p-Xylenes	11.84	106	19078	3.542	ug/l	97
69) o-Xylene	12.16	106	9704	1.896	ug/l	98
76) 1,2,3-Trichloropropane	12.62	75	91473	64.371	ug/l #	1
77) Bromobenzene	12.88	156	8547	3.212	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	91473	127.138	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.25	105	12348	1.193	ug/l	100
95) Naphthalene	15.37	128	11239	1.886	ug/l #	90

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

Instrument :
MSVOA_W
ClientSampleId :
JC-02-021119-G

Quant Time: Feb 13 00:24:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W012419S.M
Quant Title : SW846 8260
QLast Update : Fri Jan 25 11:07:41 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW008630.D

Acq: 12 Feb 2019 18:32

Instrument :

MSVOA_W

ClientSampleId :

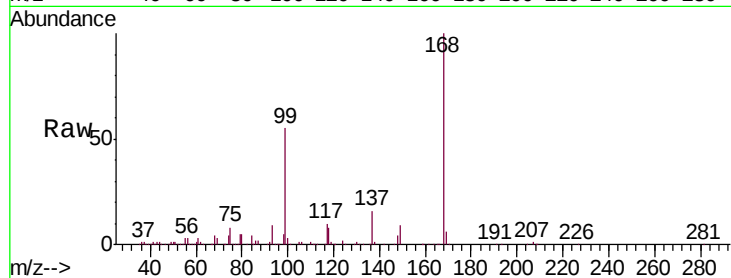
JC-02-021119-G

Tgt Ion:168 Resp: 265460

Ion Ratio Lower Upper

168 100

99 54.8 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

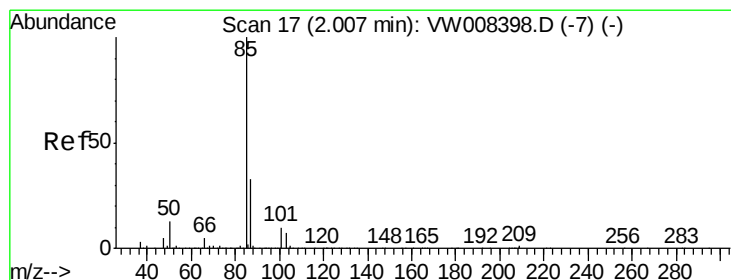
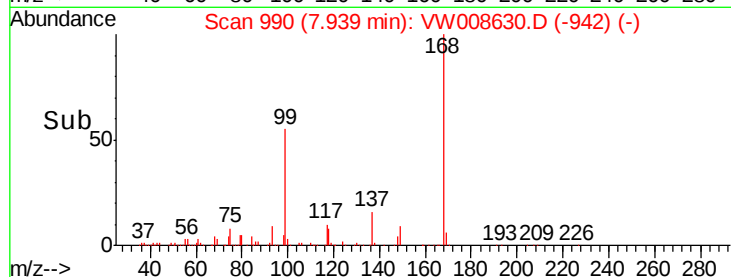
7.94

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 3.305 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW008630.D

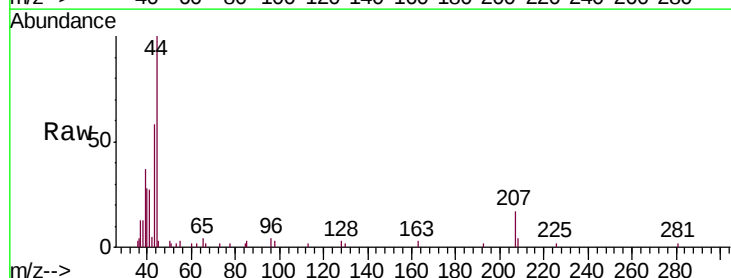
Acq: 12 Feb 2019 18:32

Tgt Ion: 85 Resp: 86

Ion Ratio Lower Upper

85 100

87 0.0 16.7 50.1#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

120

100

80

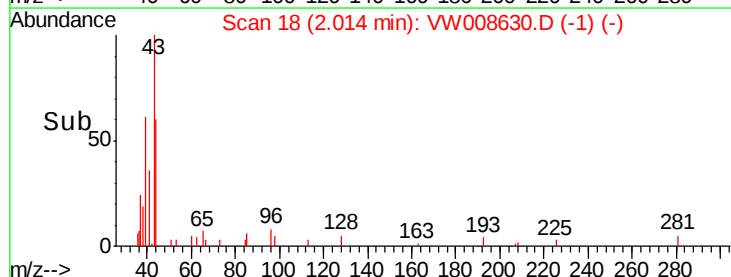
60

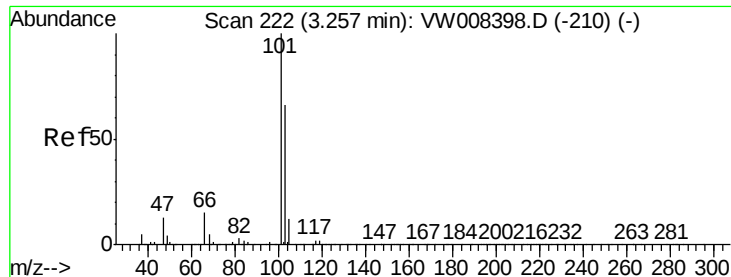
40

20

0

Time-->



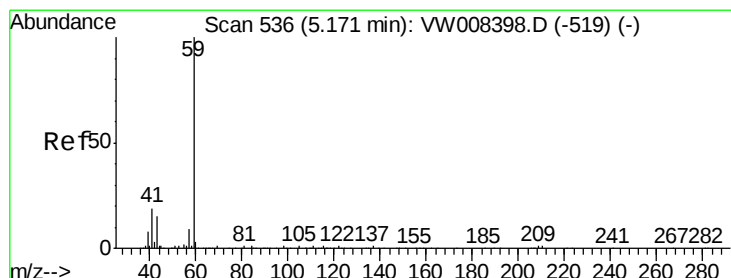
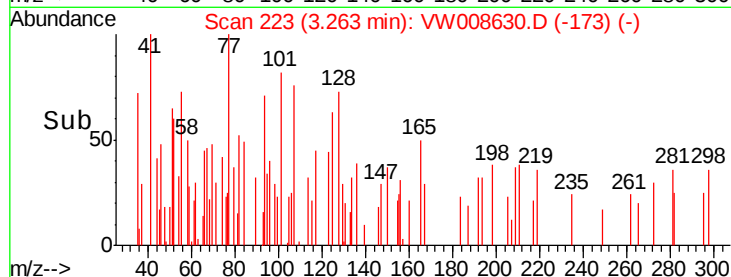
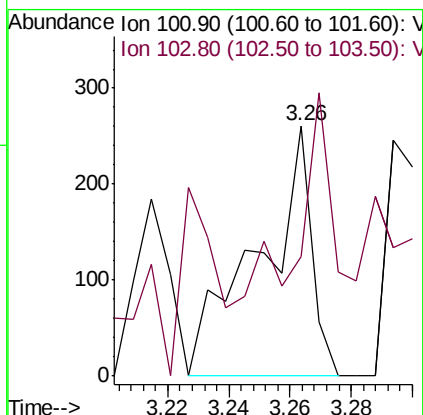
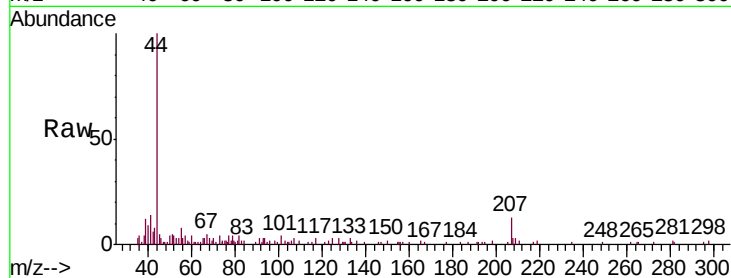


#7

Trichlorofluoromethane
 Concen: 4.843 ug/l
 RT: 3.26 min Scan# 223
 Delta R.T. 0.01 min
 Lab File: VW008630.D
 Acq: 12 Feb 2019 18:32

Instrument :
 MSVOA_W
 ClientSampleId :
 JC-02-021119-G

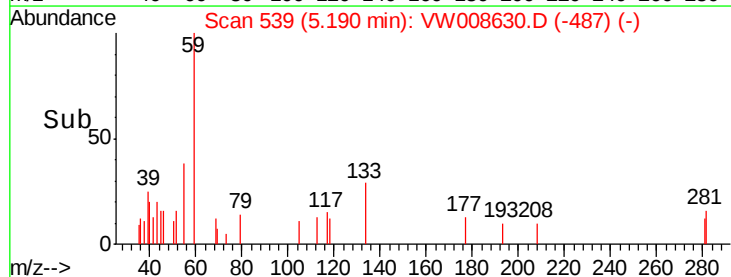
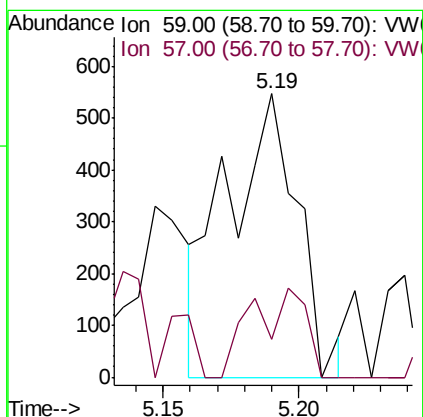
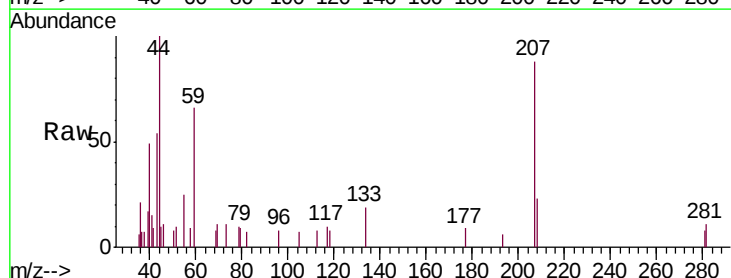
Tgt Ion: 101 Resp: 312
 Ion Ratio Lower Upper
 101 100
 103 5.7 52.5 78.7#

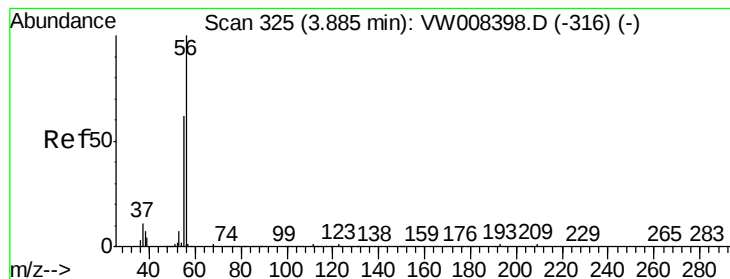


#11

Tert butyl alcohol
 Concen: 4.672 ug/l
 RT: 5.19 min Scan# 539
 Delta R.T. 0.02 min
 Lab File: VW008630.D
 Acq: 12 Feb 2019 18:32

Tgt Ion: 59 Resp: 981
 Ion Ratio Lower Upper
 59 100
 57 12.3 9.3 13.9





#13

Acrolein

Concen: 7.439 ug/l

RT: 3.88 min Scan# 324

Delta R.T. -0.01 min

Lab File: VW008630.D

Acq: 12 Feb 2019 18:32

Instrument :

MSVOA_W

ClientSampleId :

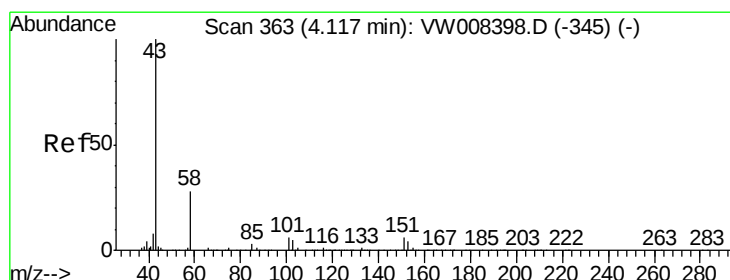
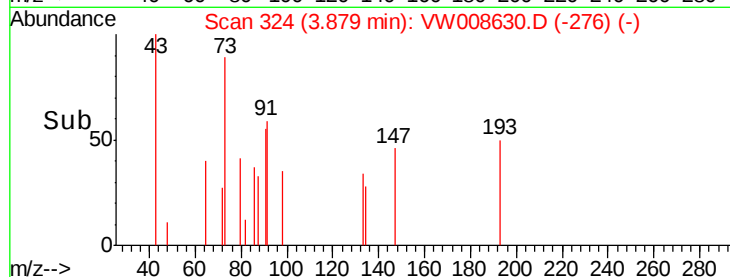
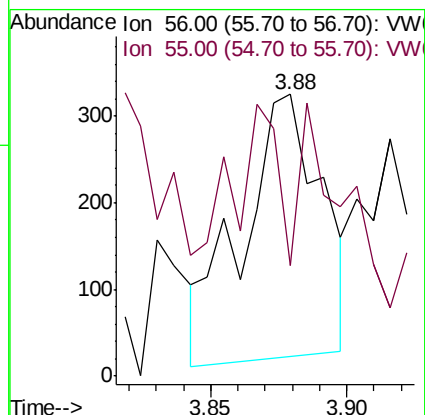
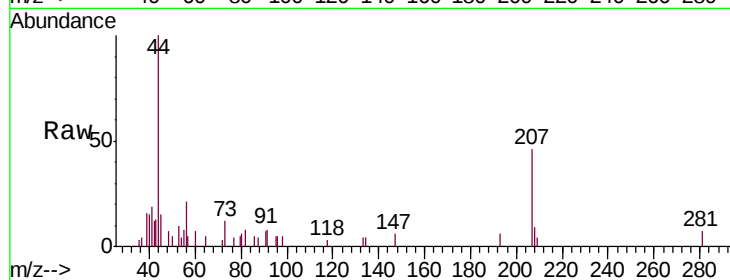
JC-02-021119-G

Tgt Ion: 56 Resp: 613

Ion Ratio Lower Upper

56 100

55 30.5 56.7 85.1#



#16

Acetone

Concen: 71.136 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW008630.D

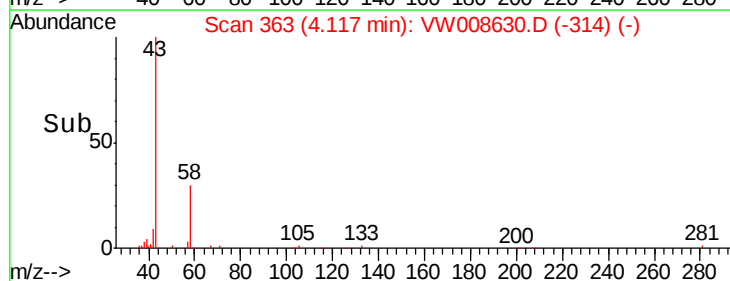
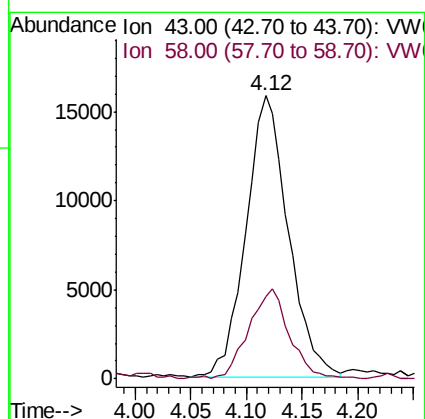
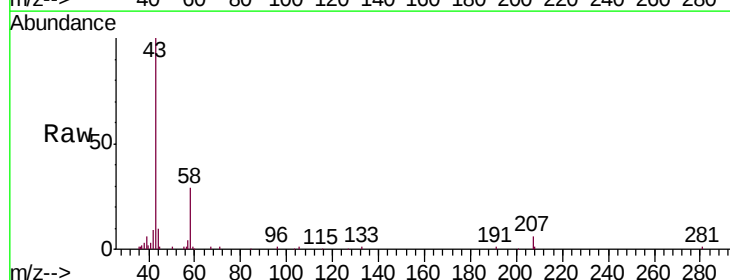
Acq: 12 Feb 2019 18:32

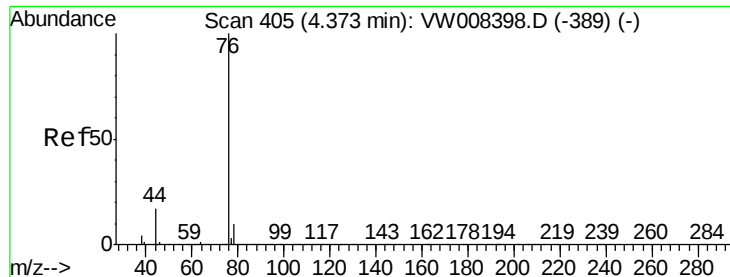
Tgt Ion: 43 Resp: 41660

Ion Ratio Lower Upper

43 100

58 28.7 22.6 34.0

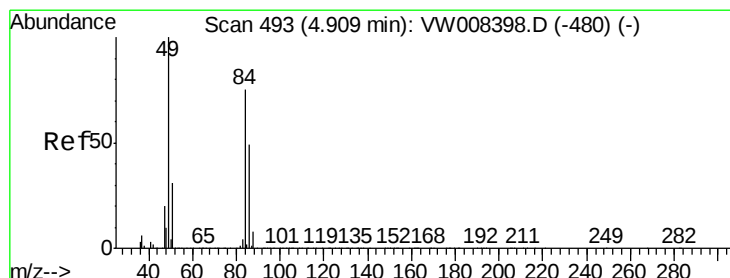
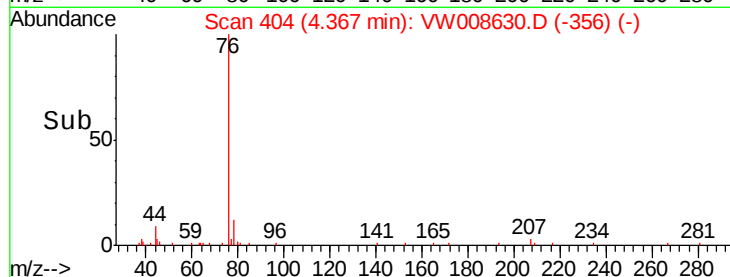
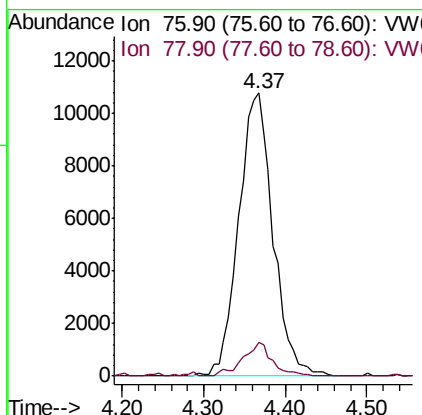
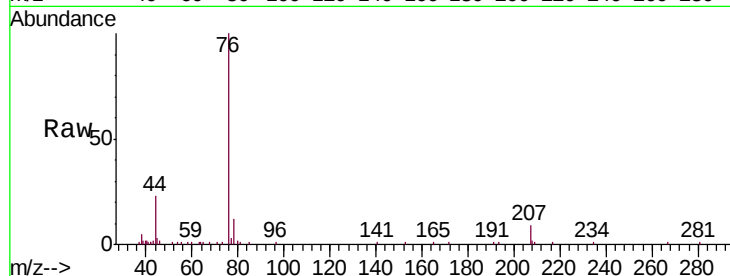




#17
Carbon Disulfide
Concen: 4.040 ug/l
RT: 4.37 min Scan# 404
Delta R.T. -0.01 min
Lab File: VW008630.D
Acq: 12 Feb 2019 18:32

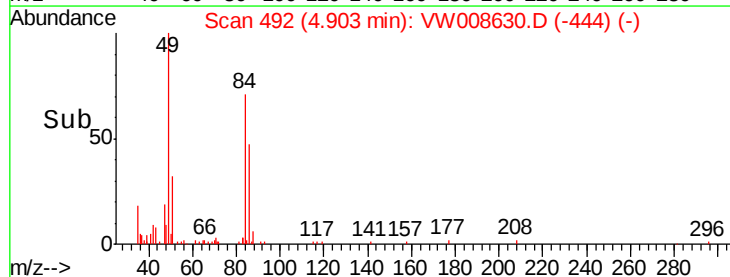
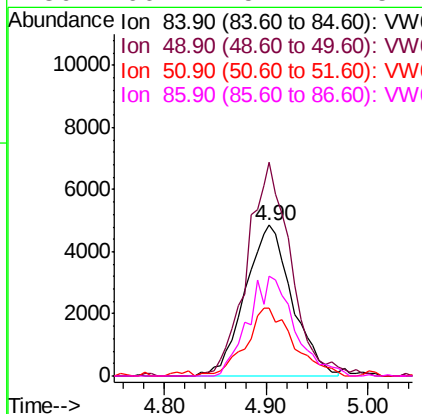
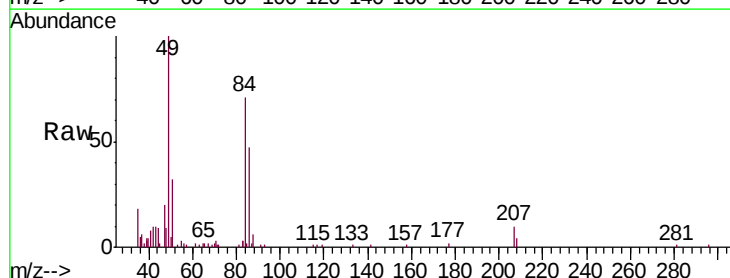
Instrument :
MSVOA_W
ClientSampleId :
JC-02-021119-G

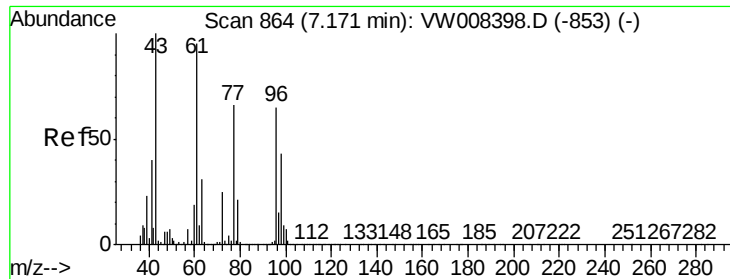
Tgt Ion: 76 Resp: 31353
Ion Ratio Lower Upper
76 100
78 11.8 7.7 11.5#



#20
Methylene Chloride
Concen: 5.755 ug/l
RT: 4.90 min Scan# 492
Delta R.T. -0.01 min
Lab File: VW008630.D
Acq: 12 Feb 2019 18:32

Tgt Ion: 84 Resp: 15533
Ion Ratio Lower Upper
84 100
49 141.6 106.8 160.2
51 42.9 32.9 49.3
86 66.4 52.2 78.2





#25

2-Butanone

Concen: 9.553 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW008630.D

Acq: 12 Feb 2019 18:32

Instrument :

MSVOA_W

ClientSampleId :

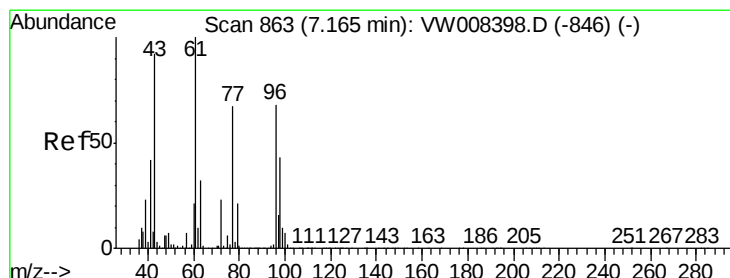
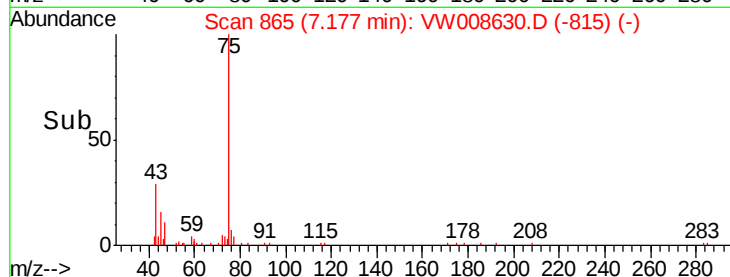
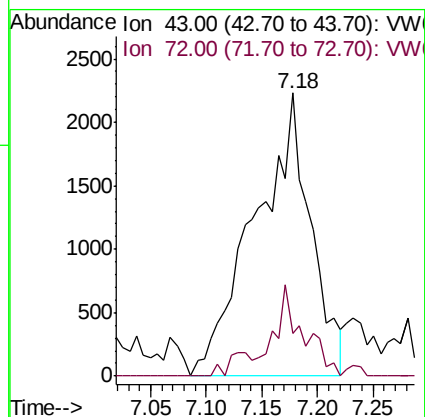
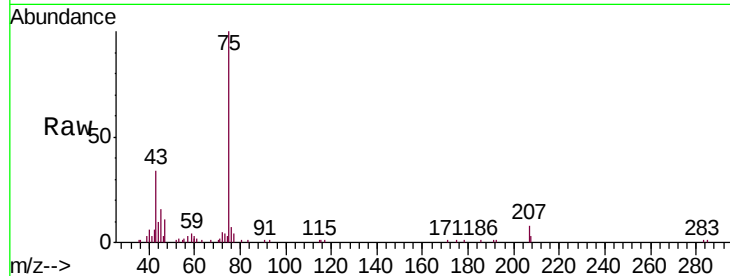
JC-02-021119-G

Tgt Ion: 43 Resp: 7771

Ion Ratio Lower Upper

43 100

72 15.1 20.1 30.1#



#26

2,2-Dichloropropane

Concen: 1.321 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.02 min

Lab File: VW008630.D

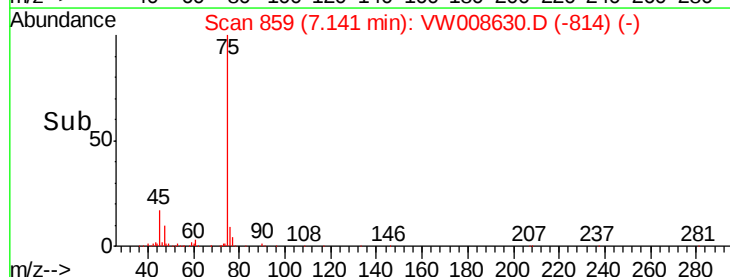
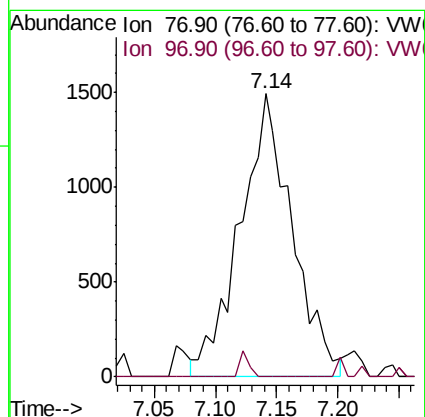
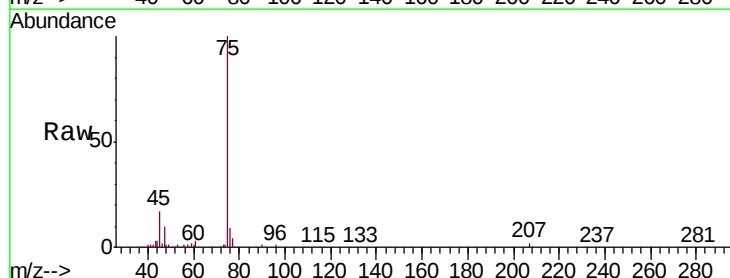
Acq: 12 Feb 2019 18:32

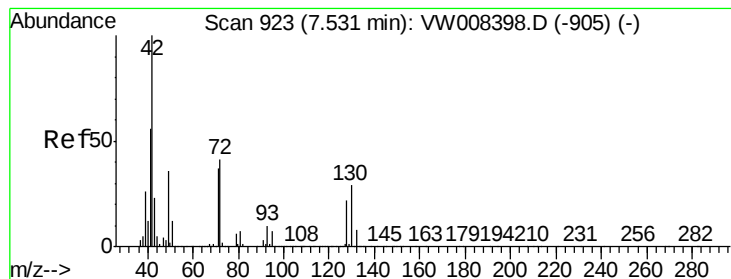
Tgt Ion: 77 Resp: 4421

Ion Ratio Lower Upper

77 100

97 1.6 11.5 34.5#





#29

Tetrahydrofuran

Concen: 5.409 ug/l

RT: 7.52 min Scan# 921

Delta R.T. -0.01 min

Lab File: VW008630.D

Acq: 12 Feb 2019 18:32

Instrument :

MSVOA_W

ClientSampleId :

JC-02-021119-G

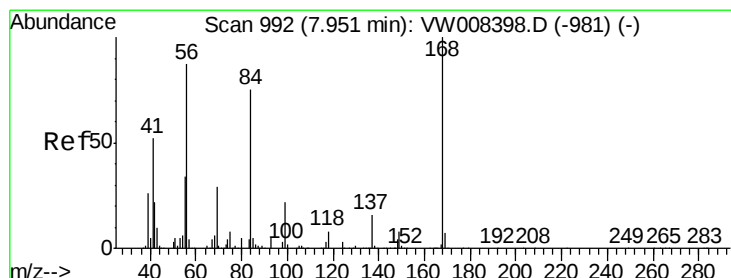
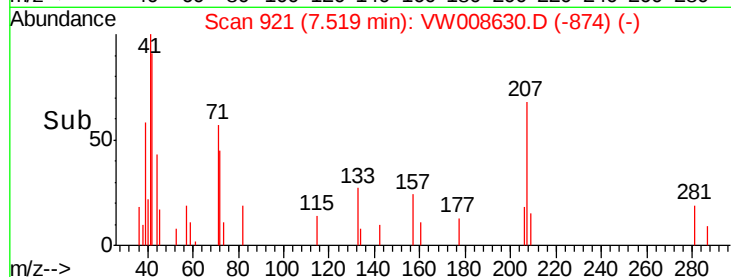
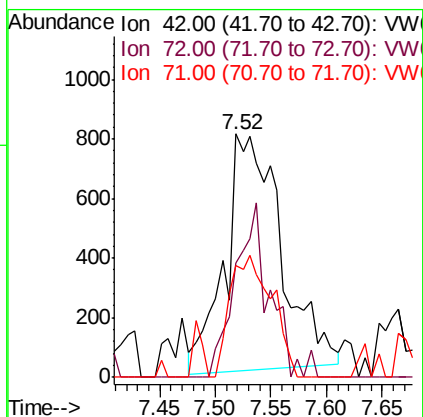
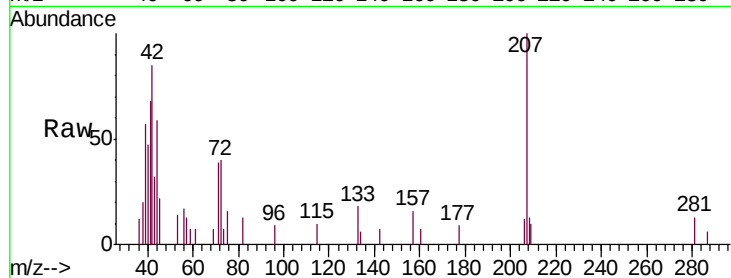
Tgt Ion: 42 Resp: 2788

Ion Ratio Lower Upper

42 100

72 43.9 31.9 47.9

71 38.8 29.9 44.9



#31

Cyclohexane

Concen: 2.045 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW008630.D

Acq: 12 Feb 2019 18:32

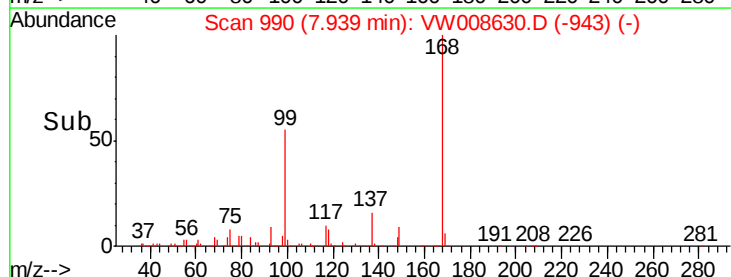
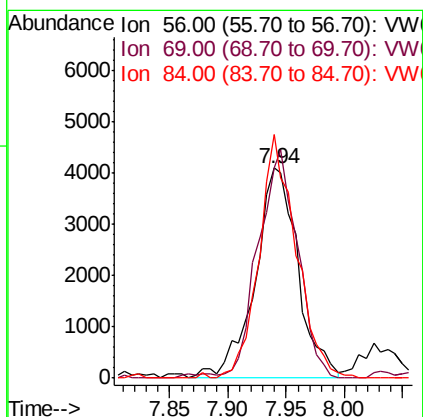
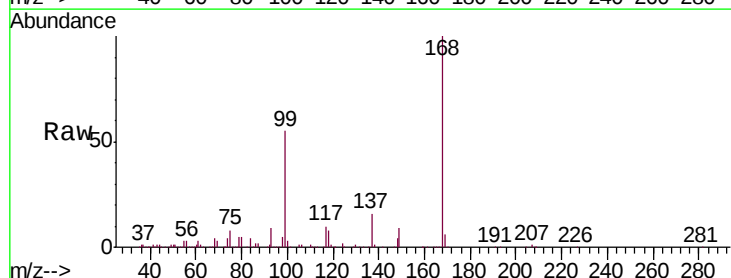
Tgt Ion: 56 Resp: 10469

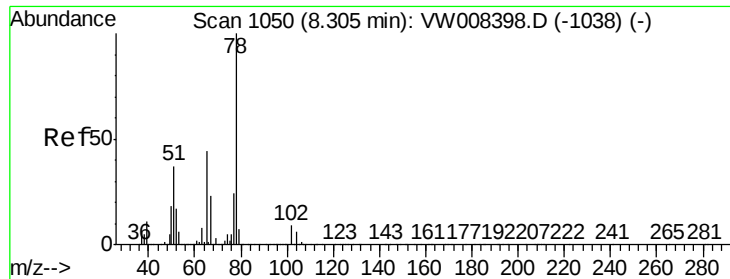
Ion Ratio Lower Upper

56 100

69 100.1 26.4 39.6#

84 115.9 69.1 103.7#

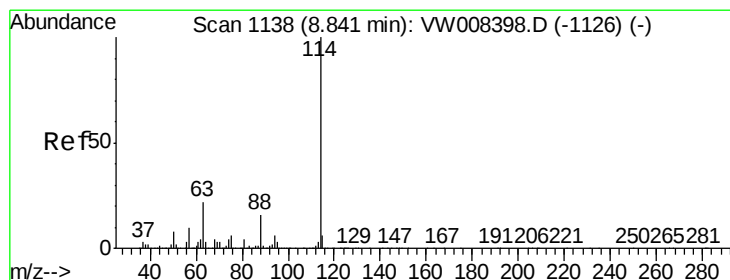
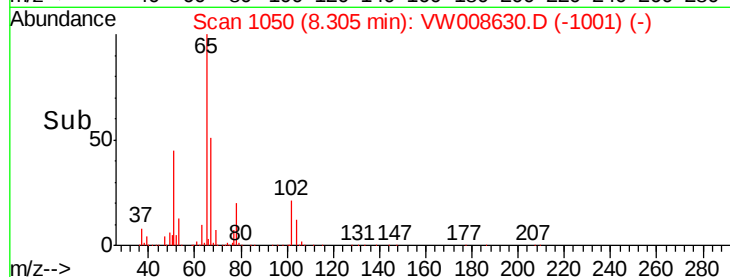
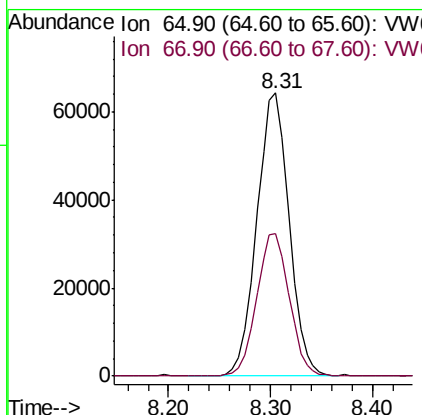
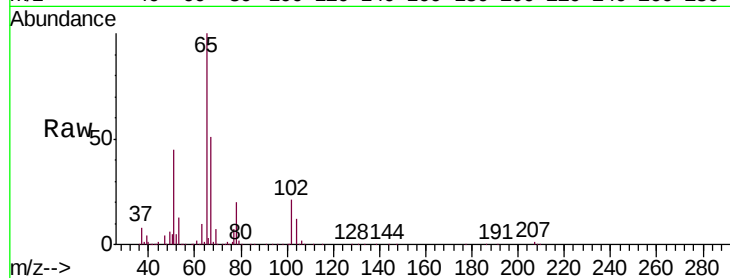




#33
 1,2-Dichloroethane-d4
 Concen: 54.436 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW008630.D
 Acq: 12 Feb 2019 18:32

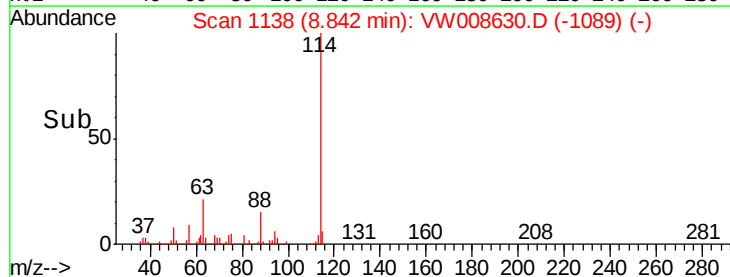
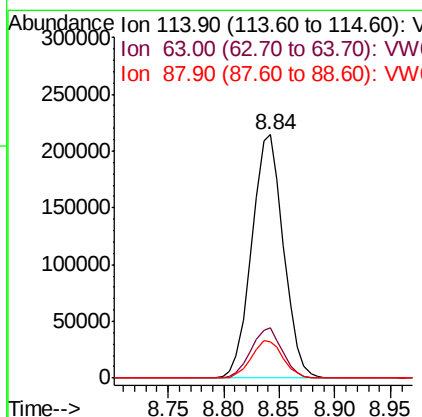
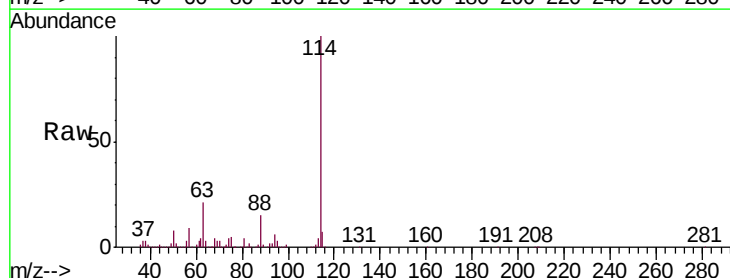
Instrument :
 MSVOA_W
 ClientSampleId :
 JC-02-021119-G

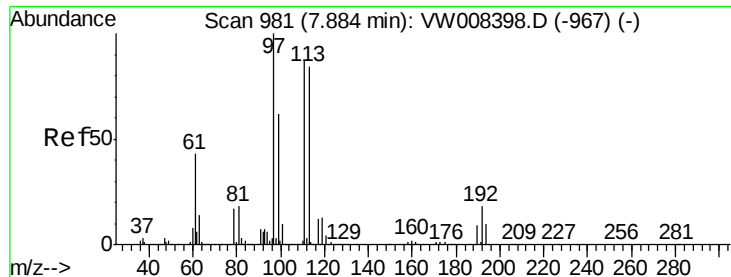
Tgt Ion: 65 Resp: 141963
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW008630.D
 Acq: 12 Feb 2019 18:32

Tgt Ion: 114 Resp: 425638
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 43.6
 88 14.9 0.0 31.8





#35

Dibromofluoromethane

Concen: 51.832 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW008630.D

Acq: 12 Feb 2019 18:32

Instrument :

MSVOA_W

ClientSampleId :

JC-02-021119-G

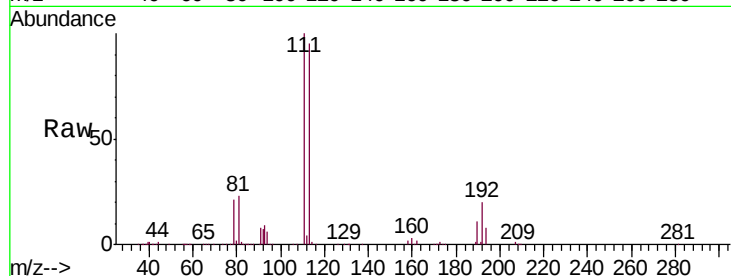
Tgt Ion:113 Resp: 129001

Ion Ratio Lower Upper

113 100

111 103.5 81.0 121.4

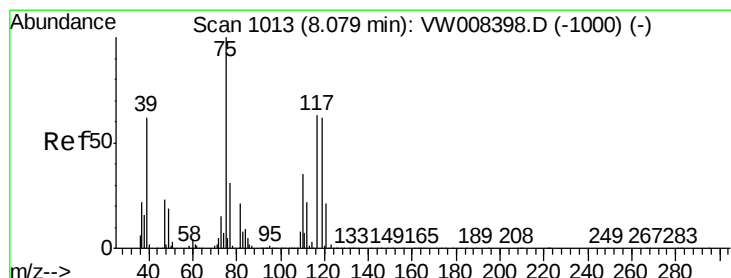
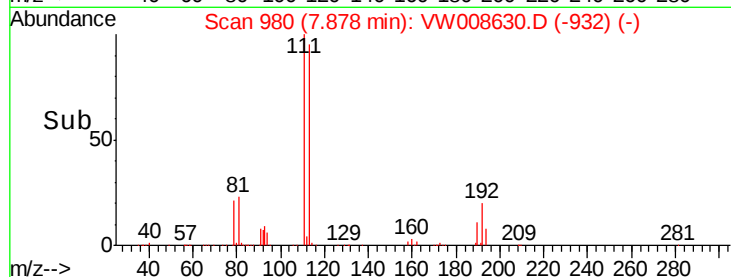
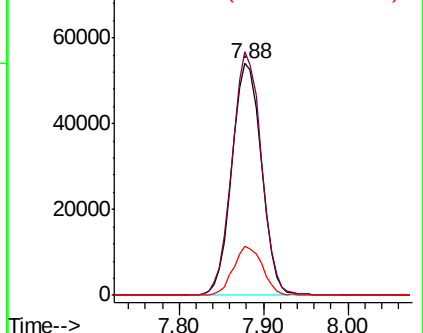
192 20.6 16.8 25.2



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: 4.907 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW008630.D

Acq: 12 Feb 2019 18:32

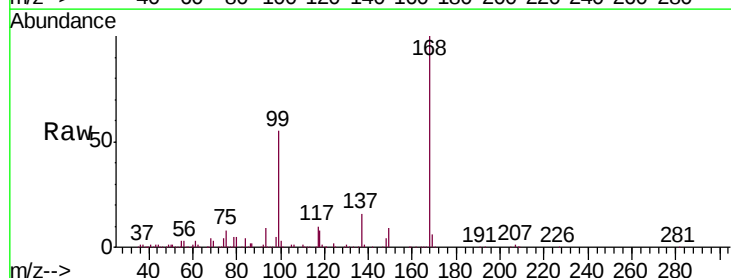
Tgt Ion: 75 Resp: 19728

Ion Ratio Lower Upper

75 100

110 8.3 17.3 52.0#

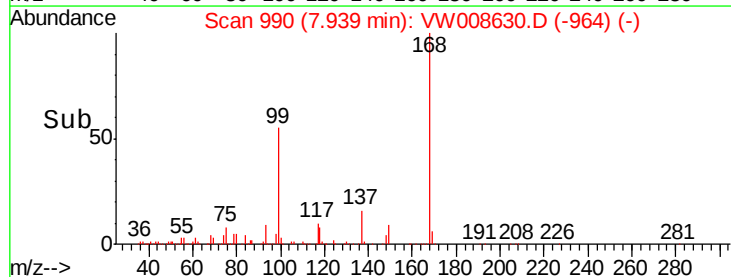
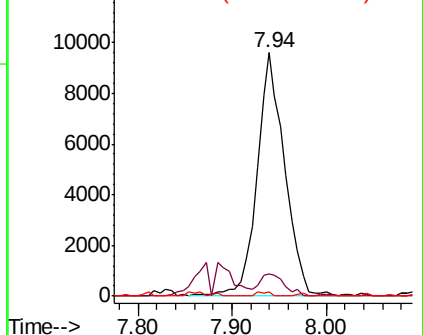
77 0.0 24.7 37.1#

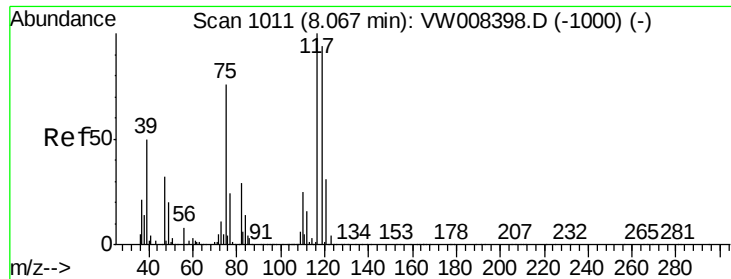


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

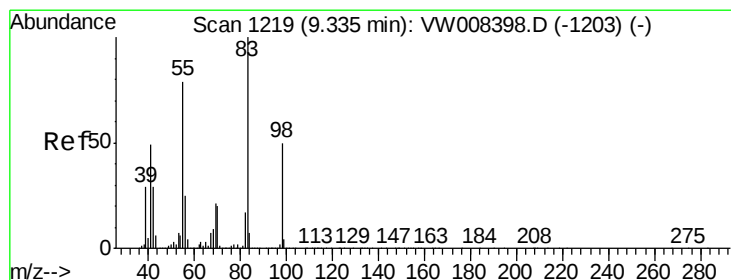
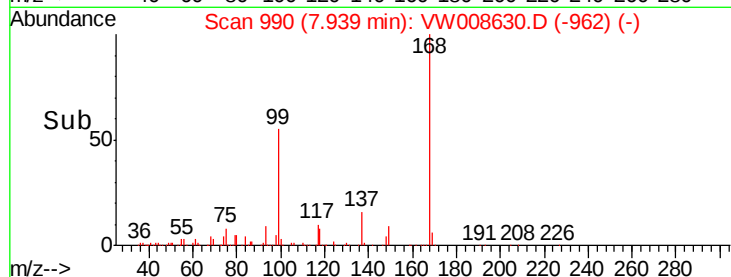
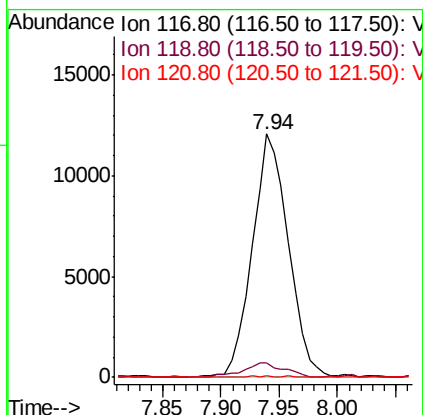
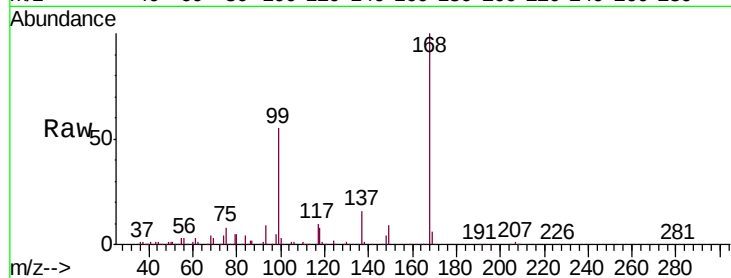




#38
Carbon Tetrachloride
Concen: 6.415 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.13 min
Lab File: VW008630.D
Acq: 12 Feb 2019 18:32

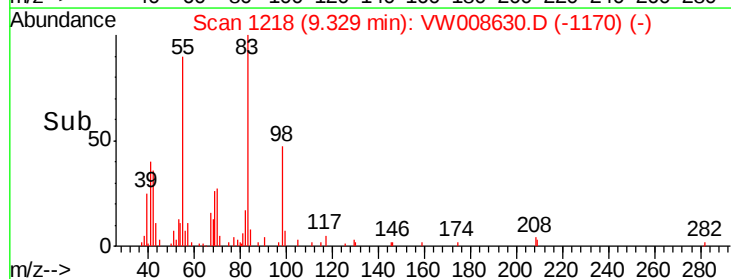
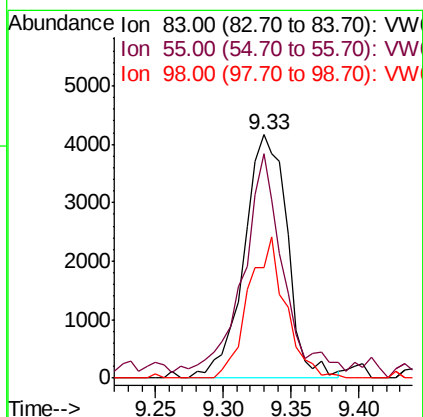
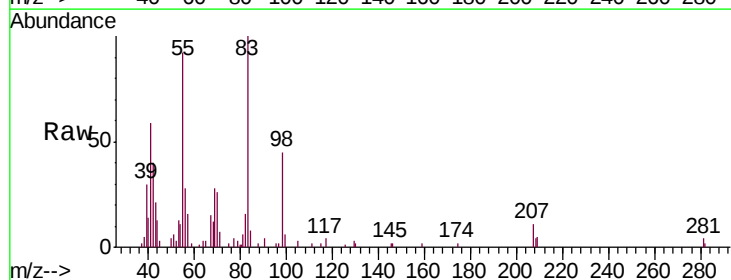
Instrument :
MSVOA_W
ClientSampleId :
JC-02-021119-G

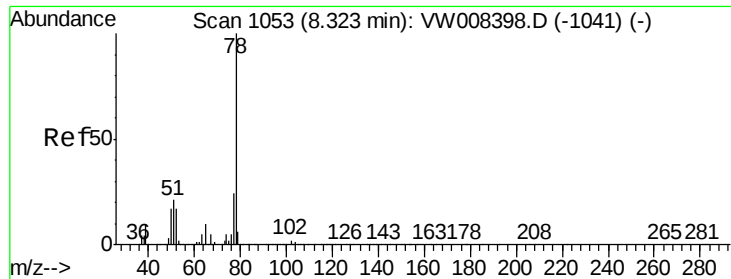
Tgt Ion: 117 Resp: 25953
Ion Ratio Lower Upper
117 100
119 6.0 75.0 112.4#
121 0.9 24.9 37.3#



#39
Methylcyclohexane
Concen: 1.753 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW008630.D
Acq: 12 Feb 2019 18:32

Tgt Ion: 83 Resp: 9259
Ion Ratio Lower Upper
83 100
55 88.5 63.3 94.9
98 45.4 39.7 59.5





#40

Benzene

Concen: 4.510 ug/l

RT: 8.32 min Scan# 1052

Delta R.T. -0.01 min

Lab File: VW008630.D

Acq: 12 Feb 2019 18:32

Instrument :

MSVOA_W

ClientSampleId :

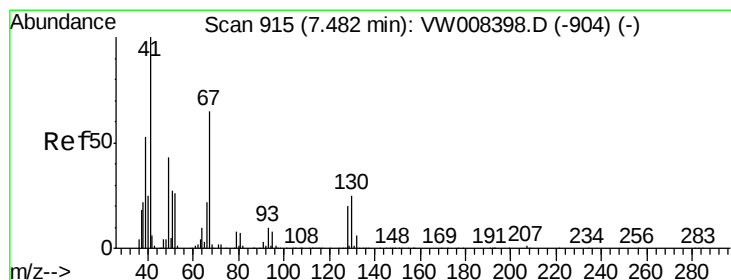
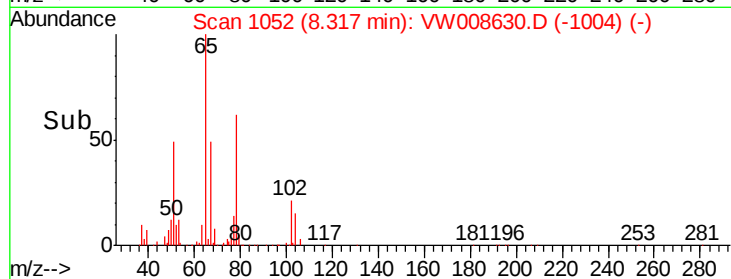
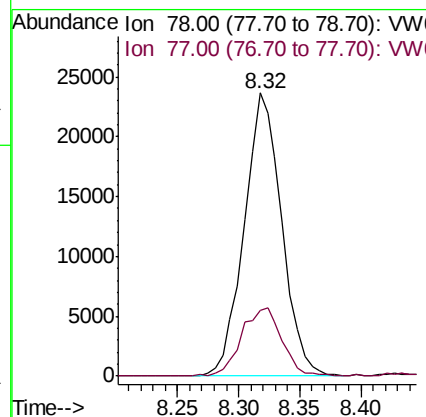
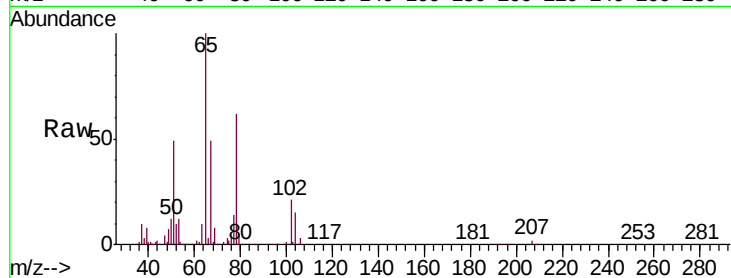
JC-02-021119-G

Tgt Ion: 78 Resp: 50313

Ion Ratio Lower Upper

78 100

77 23.1 19.0 28.6



#41

Methacrylonitrile

Concen: 1.518 ug/l

RT: 7.52 min Scan# 921

Delta R.T. 0.04 min

Lab File: VW008630.D

Acq: 12 Feb 2019 18:32

Tgt Ion: 41 Resp: 1599

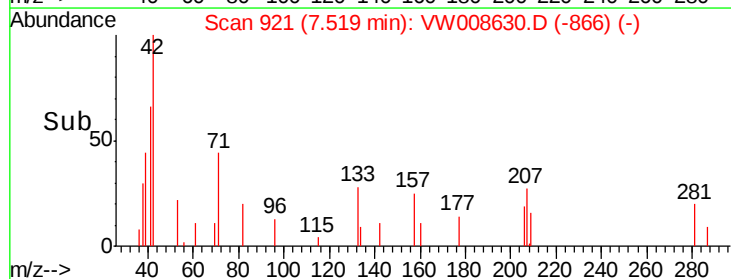
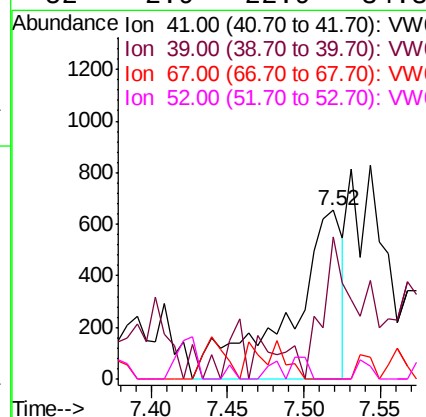
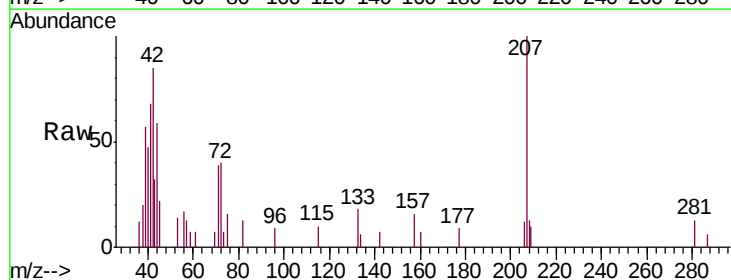
Ion Ratio Lower Upper

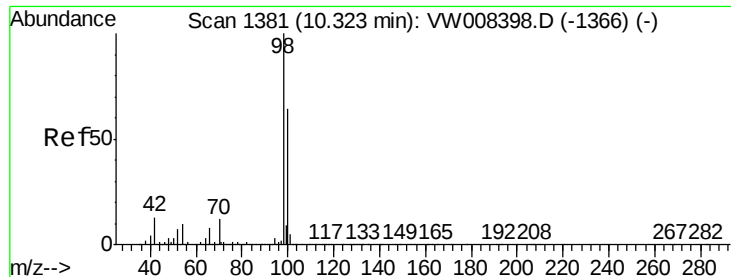
41 100

39 43.8 43.4 65.0

67 4.1 54.2 81.2#

52 2.9 22.9 34.3#





#50

Toluene-d8

Concen: 49.928 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008630.D

Acq: 12 Feb 2019 18:32

Instrument :

MSVOA_W

ClientSampleId :

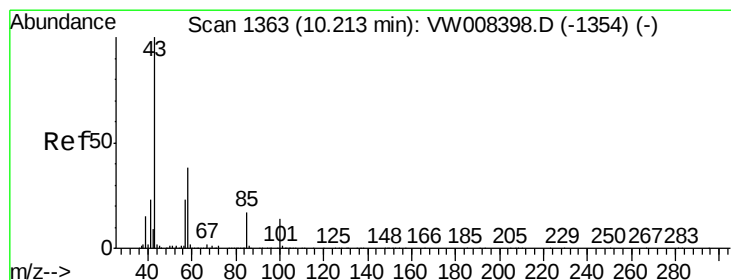
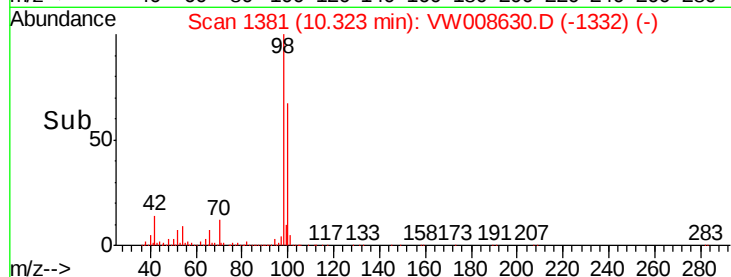
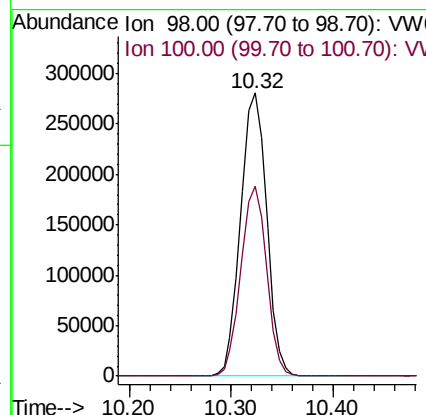
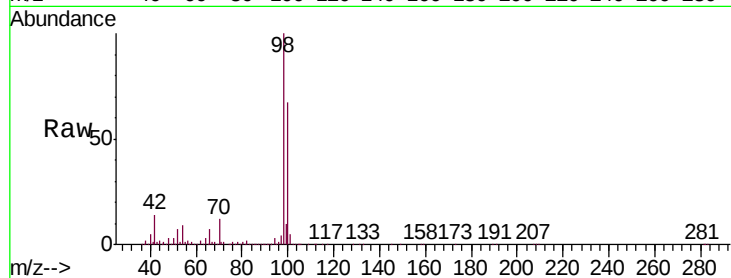
JC-02-021119-G

Tgt Ion: 98 Resp: 498302

Ion Ratio Lower Upper

98 100

100 66.2 52.6 78.8



#51

4-Methyl-2-Pentanone

Concen: 1.685 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.01 min

Lab File: VW008630.D

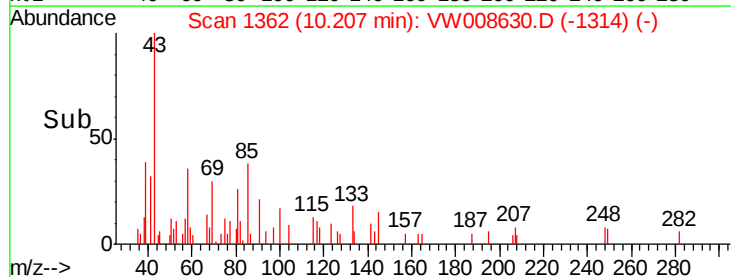
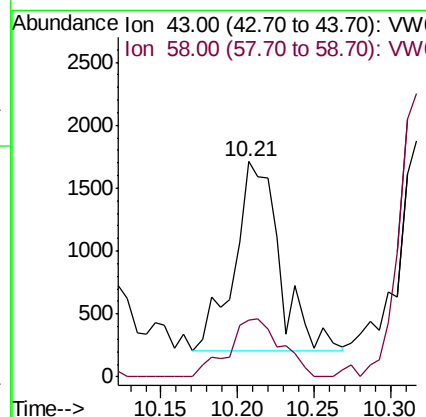
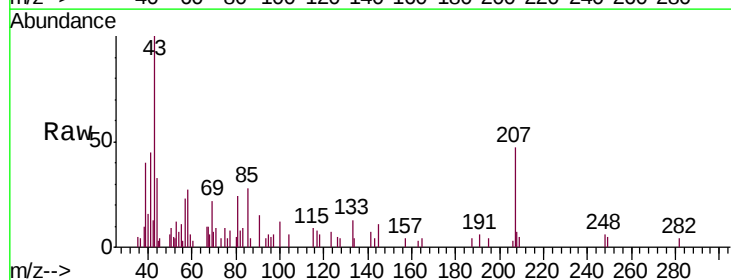
Acq: 12 Feb 2019 18:32

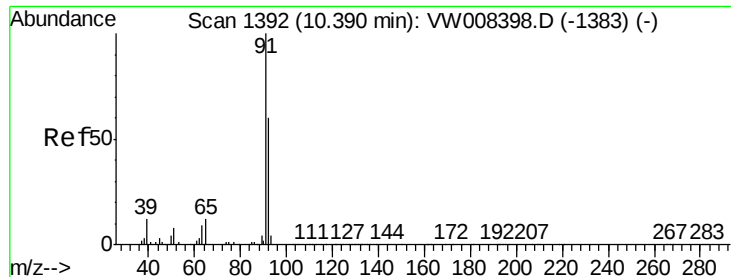
Tgt Ion: 43 Resp: 3077

Ion Ratio Lower Upper

43 100

58 35.9 29.7 44.5





#52

Toluene

Concen: 5.649 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW008630.D

Acq: 12 Feb 2019 18:32

Instrument :

MSVOA_W

ClientSampleId :

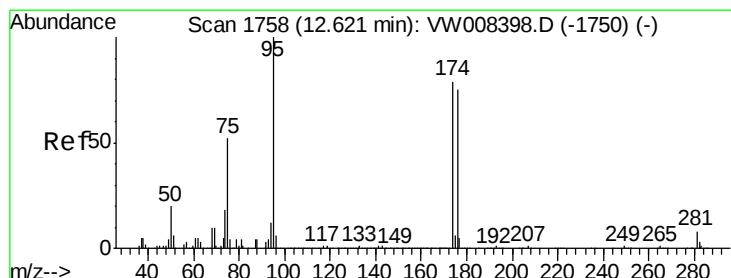
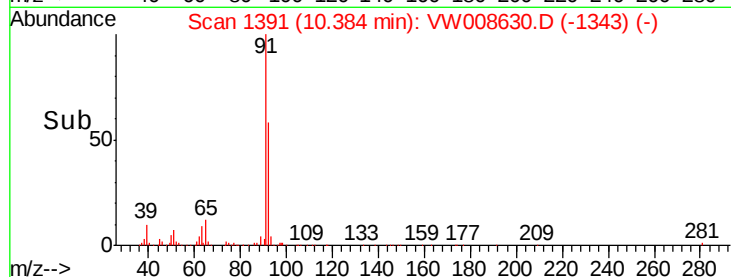
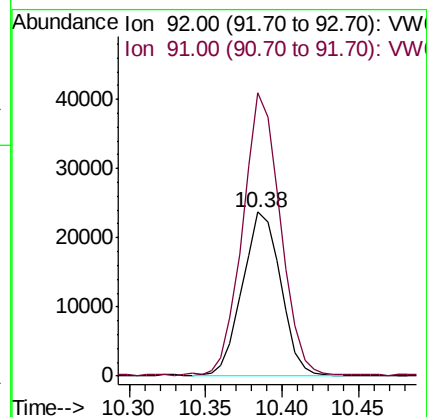
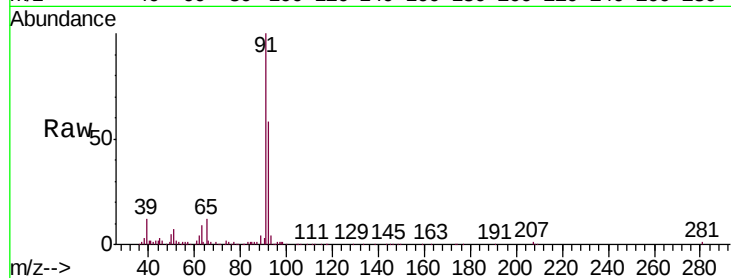
JC-02-021119-G

Tgt Ion: 92 Resp: 41604

Ion Ratio Lower Upper

92 100

91 168.7 135.5 203.3



#62

4-Bromofluorobenzene

Concen: 44.632 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008630.D

Acq: 12 Feb 2019 18:32

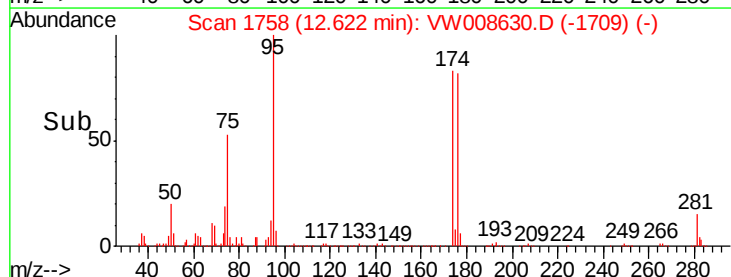
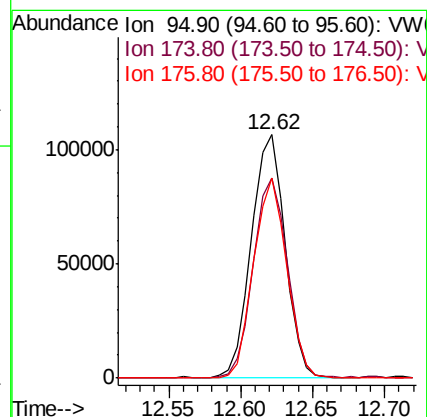
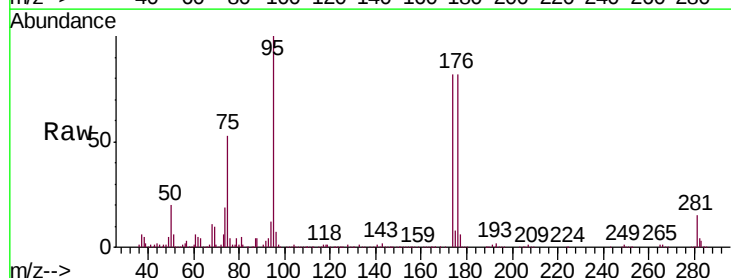
Tgt Ion: 95 Resp: 171223

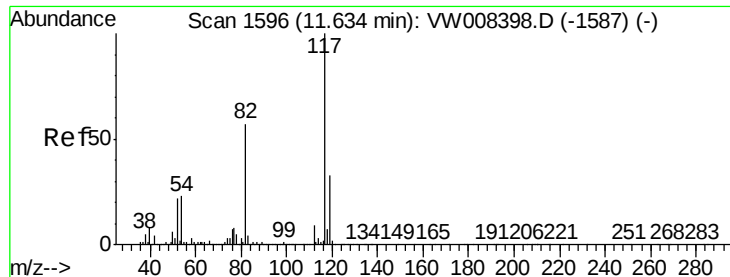
Ion Ratio Lower Upper

95 100

174 84.0 0.0 157.6

176 81.3 0.0 151.8

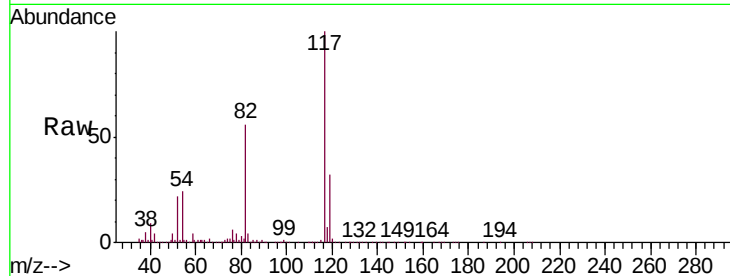




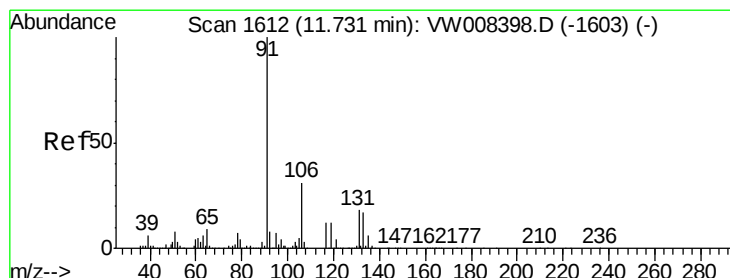
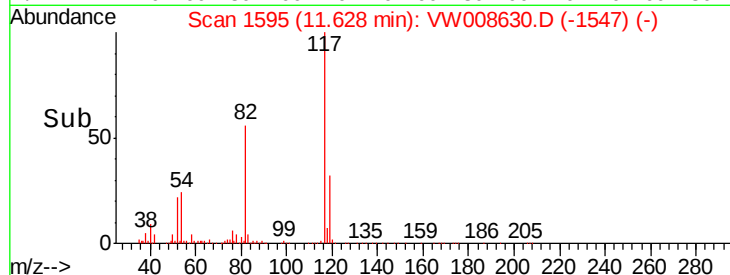
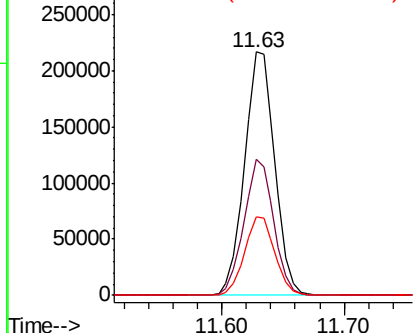
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW008630.D
Acq: 12 Feb 2019 18:32

Instrument :
MSVOA_W
ClientSampleId :
JC-02-021119-G

Tgt Ion: 117 Resp: 370000
Ion Ratio Lower Upper
117 100
82 55.8 45.4 68.0
119 32.0 26.2 39.4

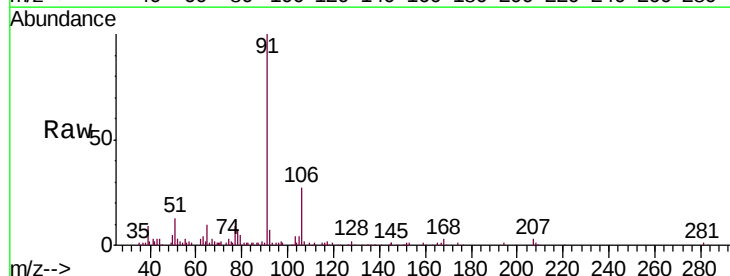


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VW
Ion 118.90 (118.60 to 119.60): V

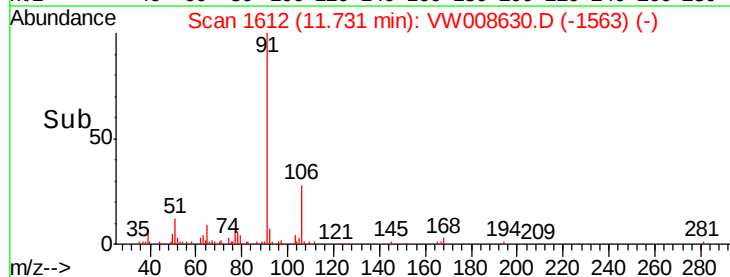
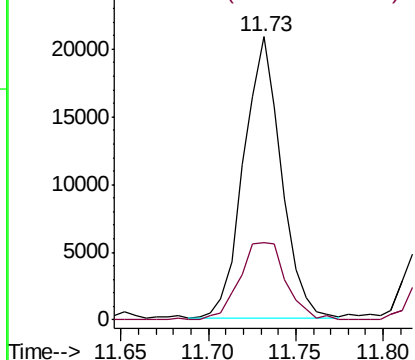


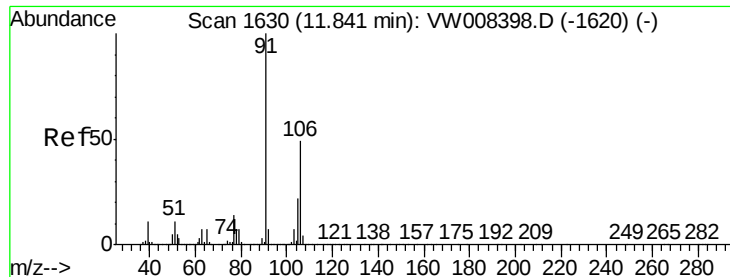
#67
Ethyl Benzene
Concen: 2.237 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW008630.D
Acq: 12 Feb 2019 18:32

Tgt Ion: 91 Resp: 31060
Ion Ratio Lower Upper
91 100
106 27.2 24.7 37.1



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

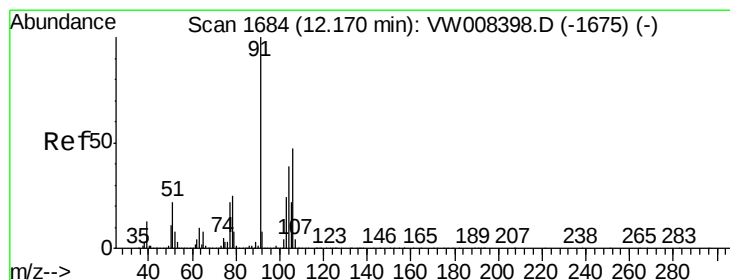
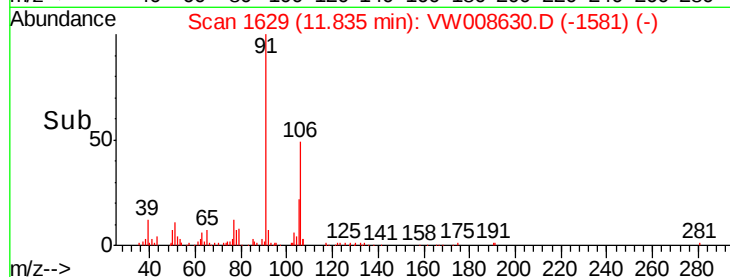
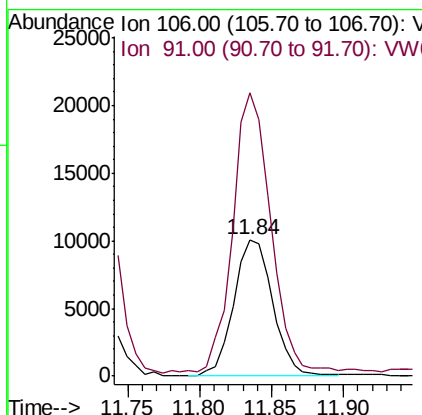
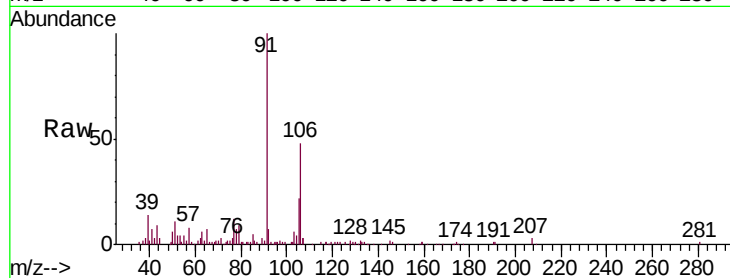




#68
m/p-Xylenes
Concen: 3.542 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW008630.D
Acq: 12 Feb 2019 18:32

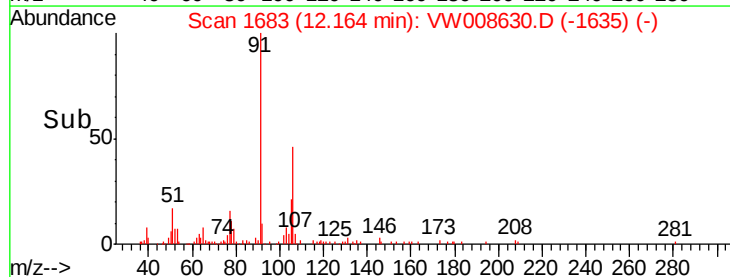
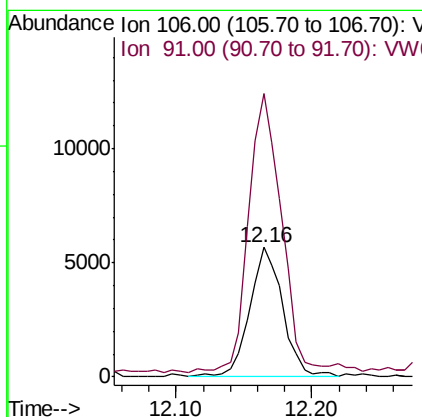
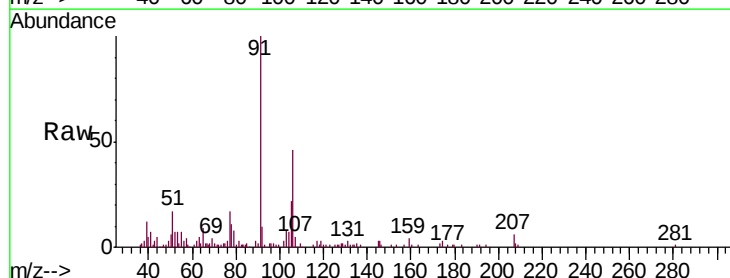
Instrument :
MSVOA_W
ClientSampleId :
JC-02-021119-G

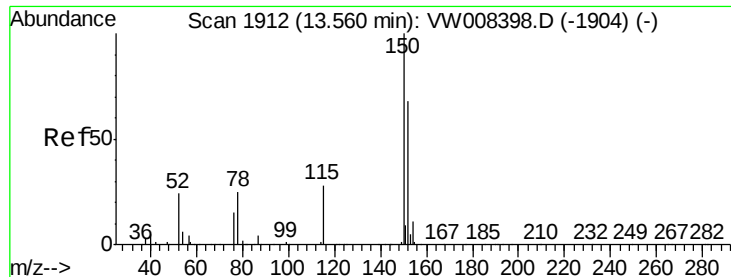
Tgt Ion:106 Resp: 19078
Ion Ratio Lower Upper
106 100
91 199.7 162.9 244.3



#69
o-Xylene
Concen: 1.896 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VW008630.D
Acq: 12 Feb 2019 18:32

Tgt Ion:106 Resp: 9704
Ion Ratio Lower Upper
106 100
91 211.9 107.5 322.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW008630.D

Acq: 12 Feb 2019 18:32

Instrument :

MSVOA_W

ClientSampleId :

JC-02-021119-G

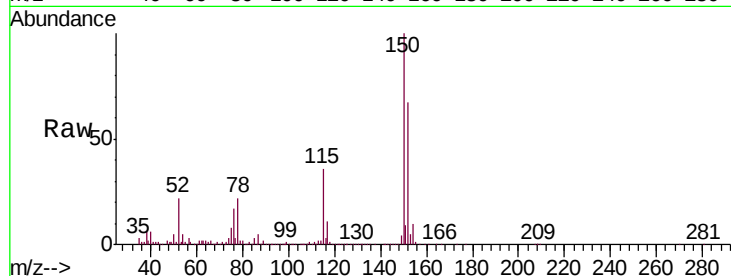
Tgt Ion:152 Resp: 163443

Ion Ratio Lower Upper

152 100

115 55.7 29.9 89.7

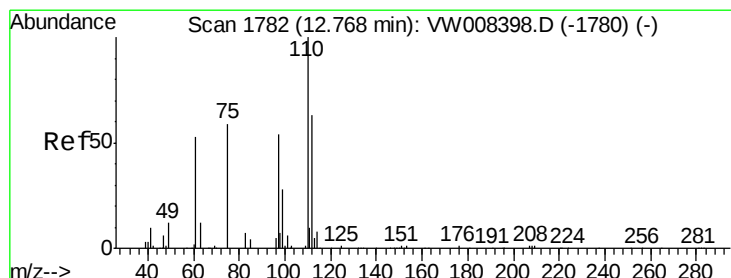
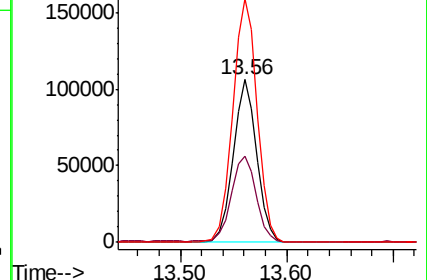
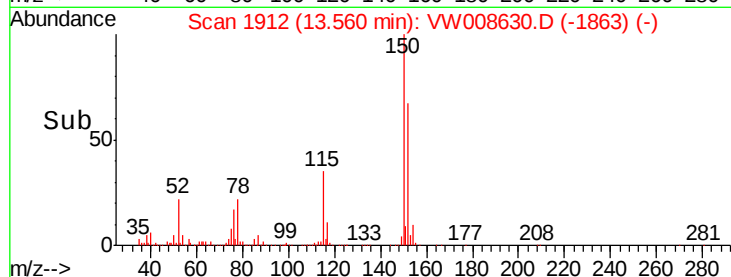
150 155.0 0.0 351.4



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: 64.371 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008630.D

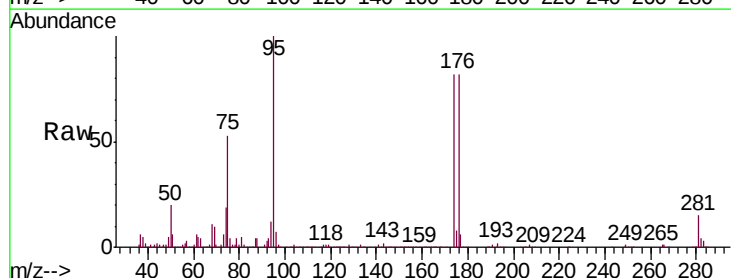
Acq: 12 Feb 2019 18:32

Tgt Ion: 75 Resp: 91473

Ion Ratio Lower Upper

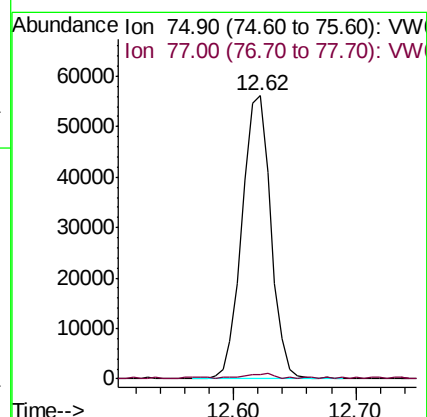
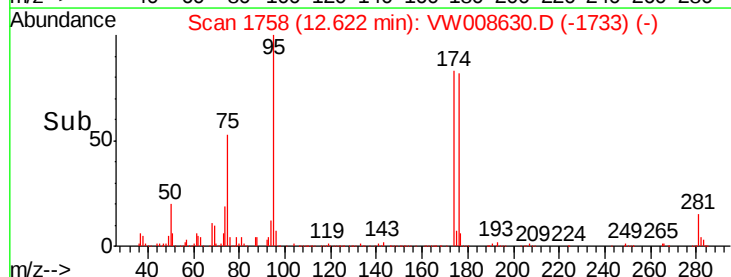
75 100

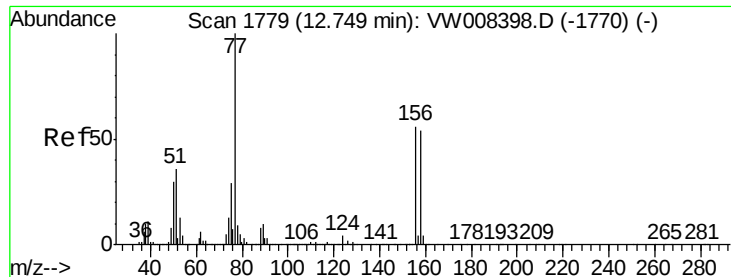
77 1.8 180.7 542.1#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 3.212 ug/l

RT: 12.88 min Scan# 1801

Delta R.T. 0.13 min

Lab File: VW008630.D

Acq: 12 Feb 2019 18:32

Instrument :

MSVOA_W

ClientSampleId :

JC-02-021119-G

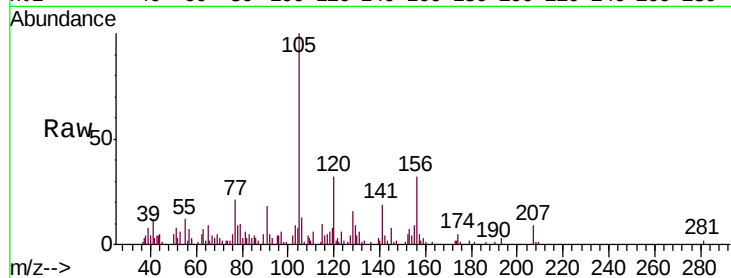
Tgt Ion:156 Resp: 8547

Ion Ratio Lower Upper

156 100

77 21.2 96.9 290.7#

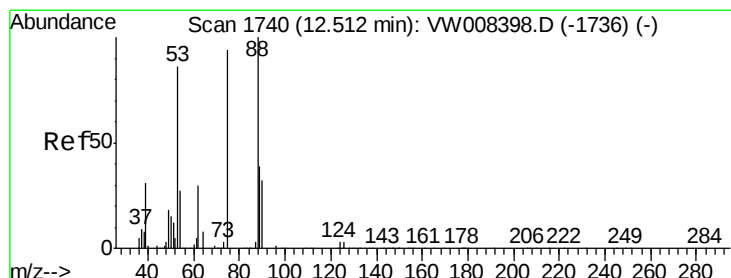
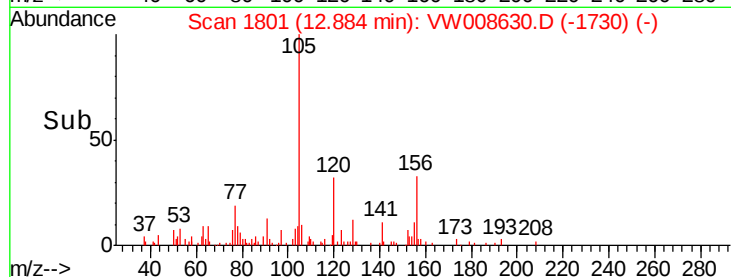
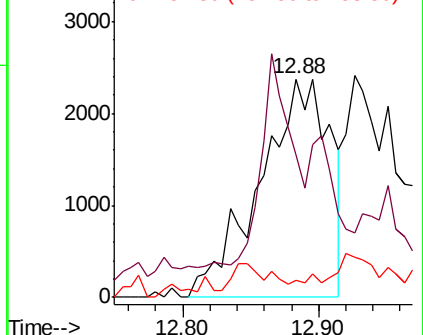
158 1.2 48.8 146.4#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 127.138 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008630.D

Acq: 12 Feb 2019 18:32

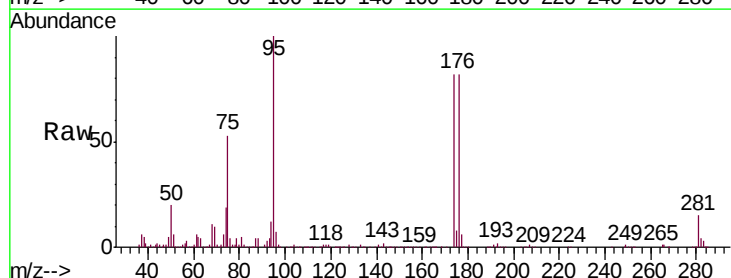
Tgt Ion: 75 Resp: 91473

Ion Ratio Lower Upper

75 100

53 0.0 76.0 114.0#

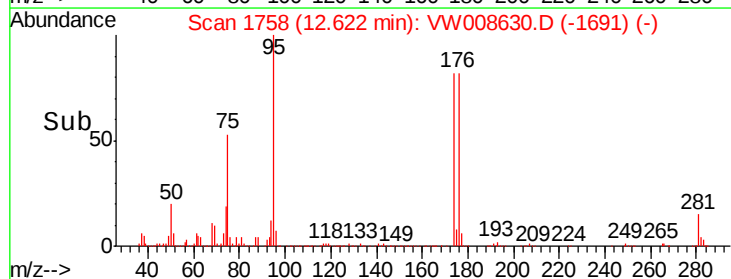
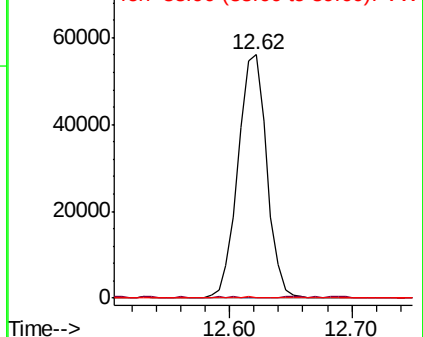
89 0.4 35.4 53.0#

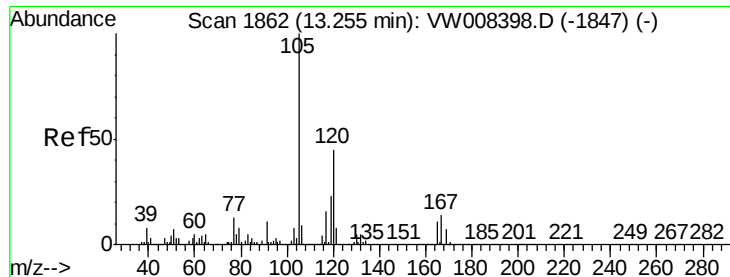


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

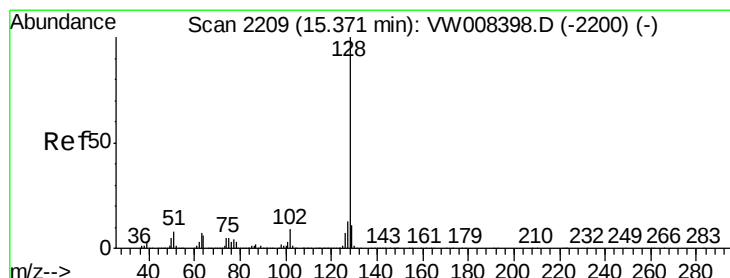
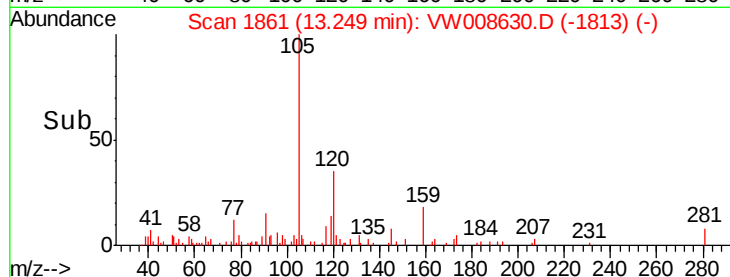
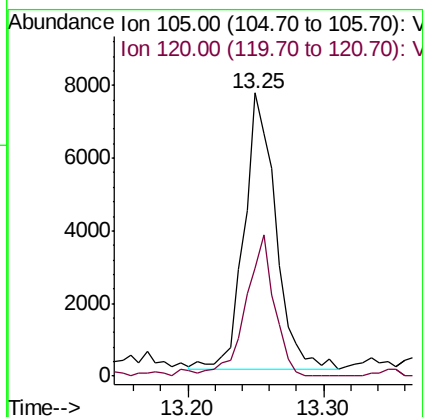
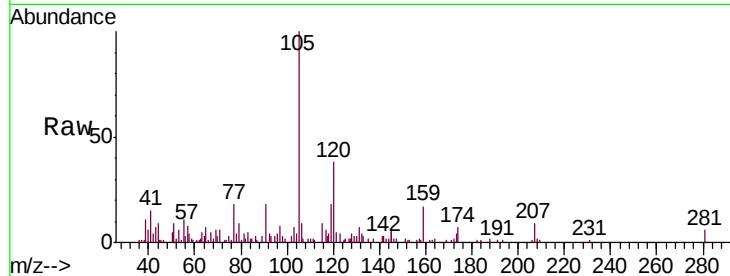




#84
 1,2,4-Trimethylbenzene
 Concen: 1.193 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. -0.01 min
 Lab File: VW008630.D
 Acq: 12 Feb 2019 18:32

Instrument :
 MSVOA_W
 ClientSampleId :
 JC-02-021119-G

Tgt Ion:105 Resp: 12348
 Ion Ratio Lower Upper
 105 100
 120 46.2 23.1 69.2



#95
 Naphthalene
 Concen: 1.886 ug/l
 RT: 15.37 min Scan# 2209
 Delta R.T. 0.00 min
 Lab File: VW008630.D
 Acq: 12 Feb 2019 18:32

Tgt Ion:128 Resp: 11239
 Ion Ratio Lower Upper
 128 100
 127 20.2 10.6 15.8#
 129 11.3 8.7 13.1

