

Data File : VW008976.D
Acq On : 04 Mar 2019 22:50
Operator : SY/VA
Sample : K1688-07
Misc : 6.47G/5ML/MSVOA_W/SOIL
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
JC-03-030119-D

Quant Time: Mar 05 06:31:37 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W022119S.M
Quant Title : SW846 8260
QLast Update : Fri Feb 22 00:38:32 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	329022	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	514638	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	452278	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	194674	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	184455	59.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.54%	
35) Dibromofluoromethane	7.88	113	160253	51.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.72%	
50) Toluene-d8	10.32	98	609696	51.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.22%	
62) 4-Bromofluorobenzene	12.62	95	203191	43.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.02%	

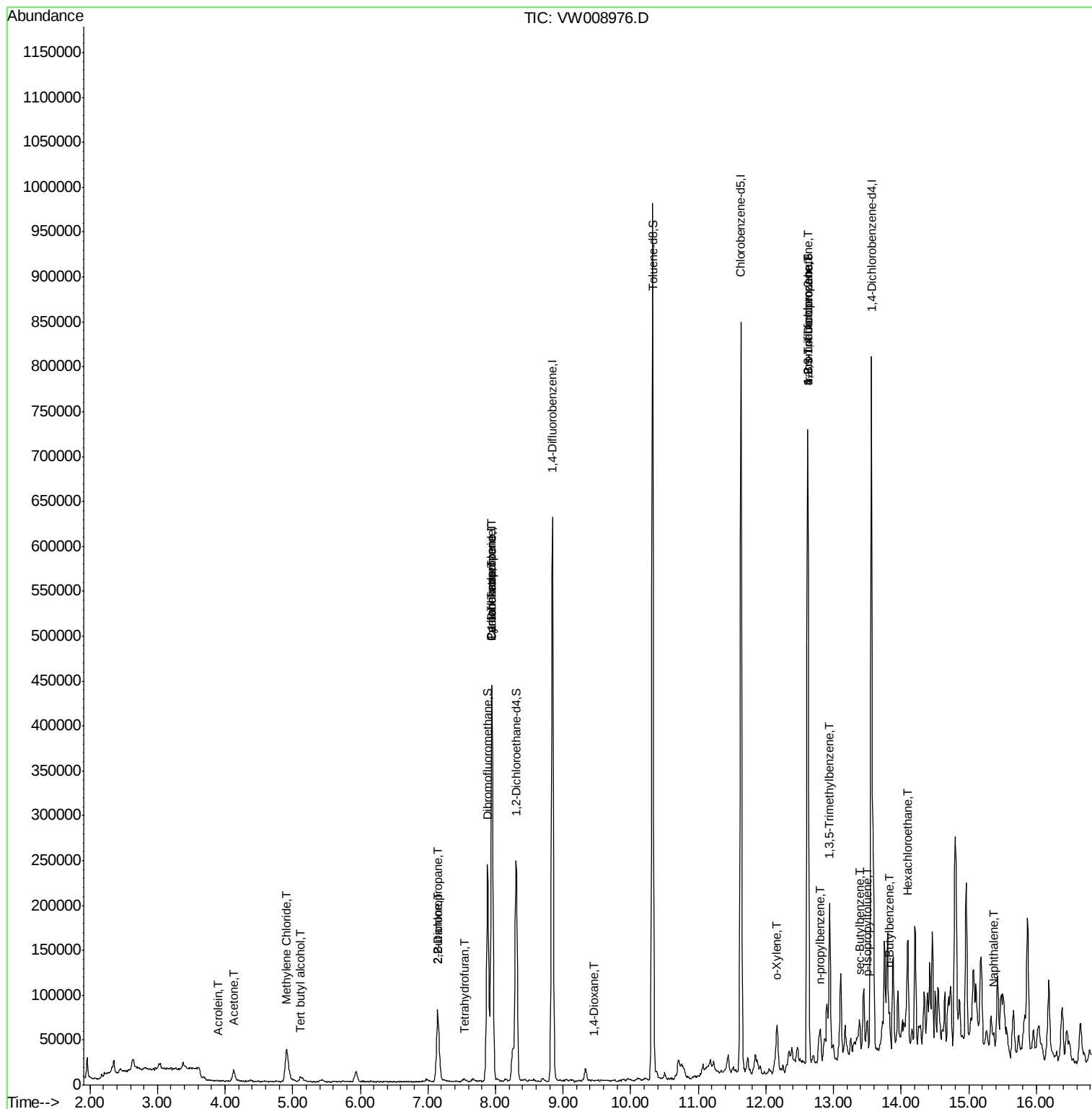
Target Compounds			Qvalue			
11) Tert butyl alcohol	5.11	59	1999	7.276	ug/l #	78
13) Acrolein	3.90	56	125	20.177	ug/l #	14
16) Acetone	4.13	43	23126	32.331	ug/l	98
20) Methylene Chloride	4.92	84	26909	2.815	ug/l	87
25) 2-Butanone	7.15	43	6848	6.848	ug/l #	80
26) 2,2-Dichloropropane	7.15	77	5503	1.055	ug/l #	54
29) Tetrahydrofuran	7.54	42	2258	3.543	ug/l	94
31) Cyclohexane	7.95	56	9709	1.669	ug/l #	55
36) 1,1-Dichloropropene	7.95	75	24893	4.969	ug/l #	51
38) Carbon Tetrachloride	7.95	117	31960	6.049	ug/l #	16
49) 1,4-Dioxane	9.45	88	60	1.993	ug/l #	62
69) o-Xylene	12.16	106	13247	2.078	ug/l	93
76) 1,2,3-Trichloropropane	12.62	75	109080	67.866	ug/l #	100
78) n-propylbenzene	12.80	91	27104	1.660	ug/l	96
80) 1,3,5-Trimethylbenzene	12.94	105	69137	5.961	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.62	75	109080	164.987	ug/l #	6
85) sec-Butylbenzene	13.38	105	15199	1.054	ug/l #	67
86) p-Isopropyltoluene	13.50	119	16491	1.248	ug/l	92
89) n-Butylbenzene	13.83	91	19496	1.574	ug/l #	73
90) Hexachloroethane	14.10	117	5640	2.606	ug/l #	10
95) Naphthalene	15.37	128	8865	1.239	ug/l #	92

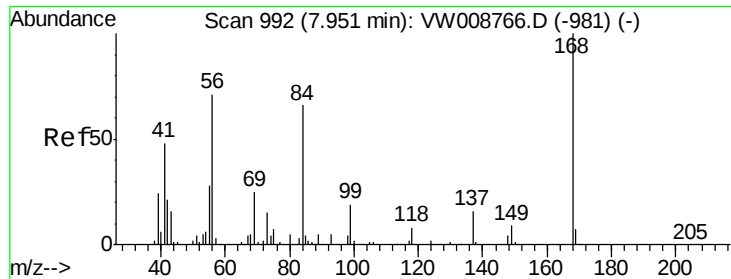
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW008976.D

Acq: 04 Mar 2019 22:50

Instrument :

MSVOA_W

ClientSampleId :

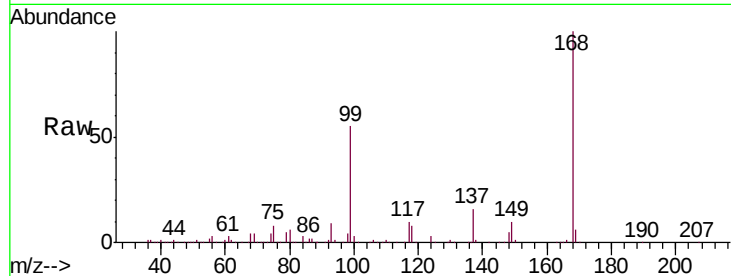
JC-03-030119-D

Tgt Ion:168 Resp: 329022

Ion Ratio Lower Upper

168 100

99 55.1 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

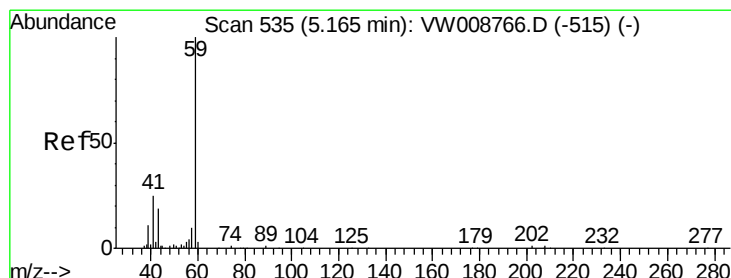
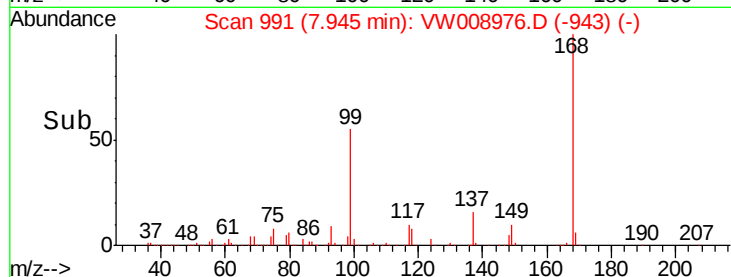
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 7.276 ug/l

RT: 5.11 min Scan# 526

Delta R.T. -0.05 min

Lab File: VW008976.D

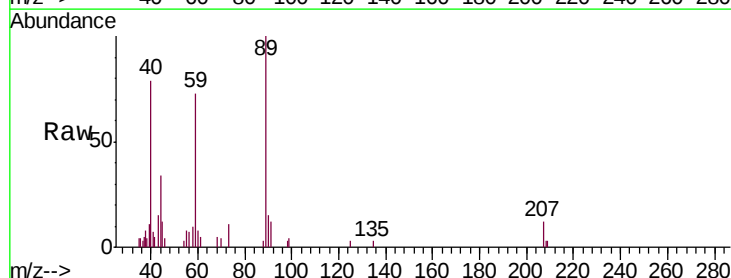
Acq: 04 Mar 2019 22:50

Tgt Ion: 59 Resp: 1999

Ion Ratio Lower Upper

59 100

57 3.1 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.11

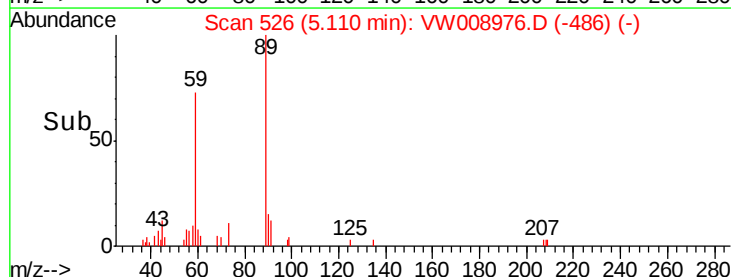
1500

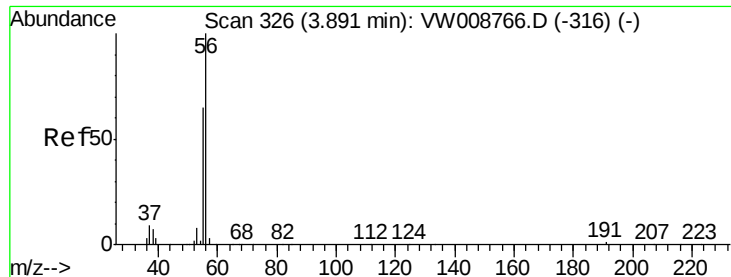
1000

500

0

Time-->





#13

Acrolein

Concen: 20.177 ug/l

RT: 3.90 min Scan# 327

Delta R.T. 0.01 min

Lab File: VW008976.D

Acq: 04 Mar 2019 22:50

Instrument :

MSVOA_W

ClientSampleId :

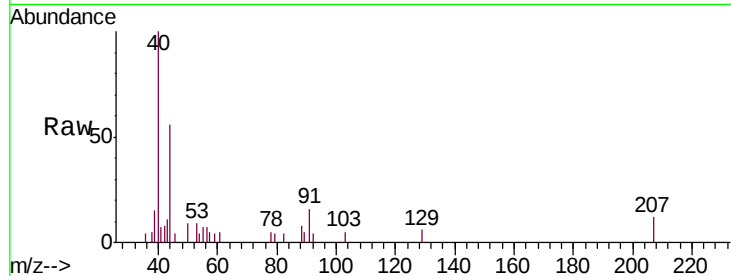
JC-03-030119-D

Tgt Ion: 56 Resp: 125

Ion Ratio Lower Upper

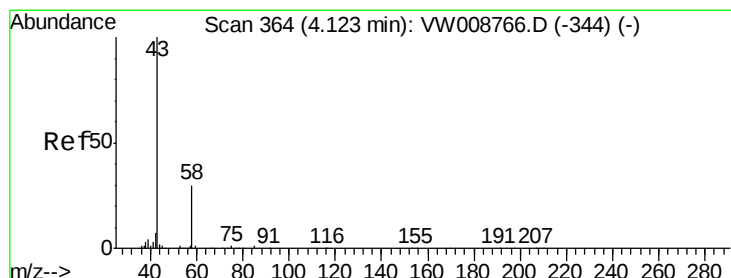
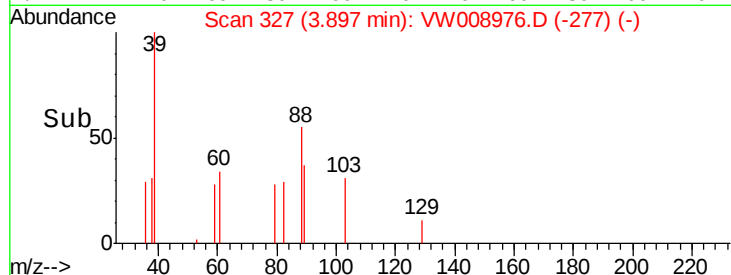
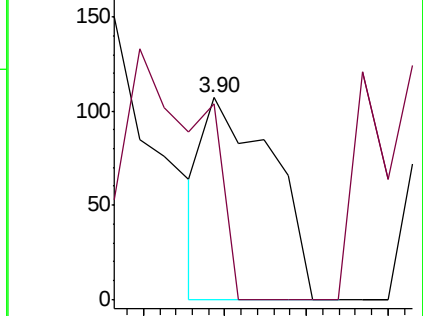
56 100

55 0.0 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#16

Acetone

Concen: 32.331 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW008976.D

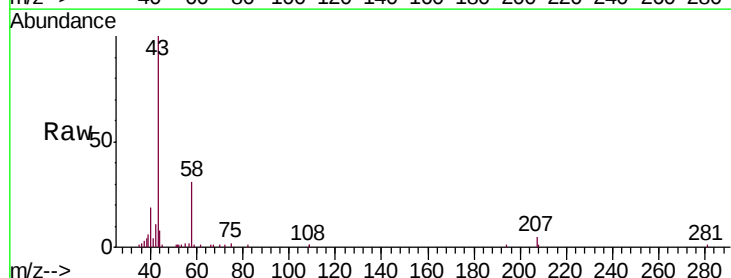
Acq: 04 Mar 2019 22:50

Tgt Ion: 43 Resp: 23126

Ion Ratio Lower Upper

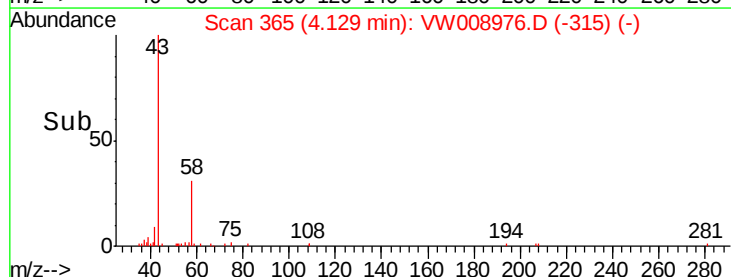
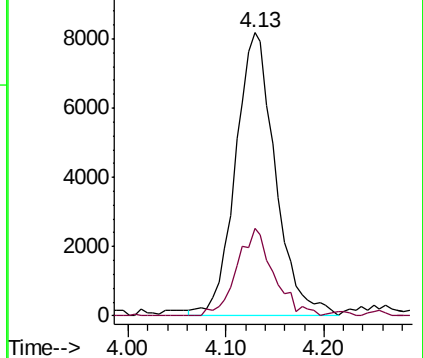
43 100

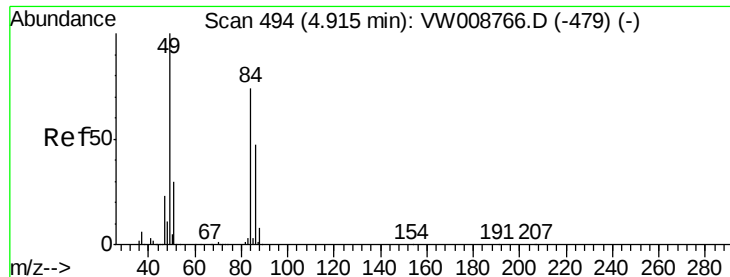
58 30.8 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#20

Methylene Chloride

Concen: 2.815 ug/l

RT: 4.92 min Scan# 494

Delta R.T. 0.00 min

Lab File: VW008976.D

Acq: 04 Mar 2019 22:50

Instrument :

MSVOA_W

ClientSampleId :

JC-03-030119-D

Tgt Ion: 84 Resp: 26909

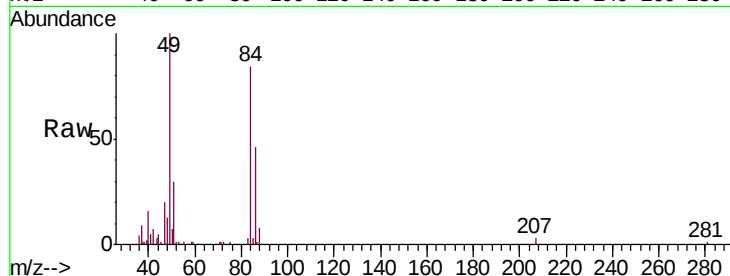
Ion Ratio Lower Upper

84 100

49 117.7 108.2 162.2

51 35.8 32.7 49.1

86 54.1 50.3 75.5

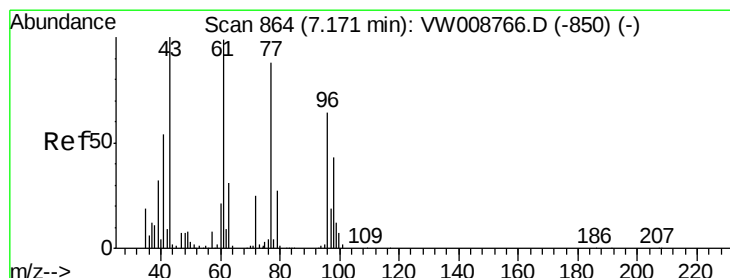
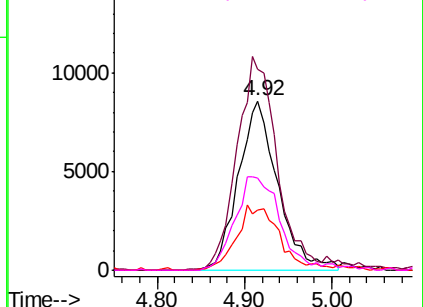
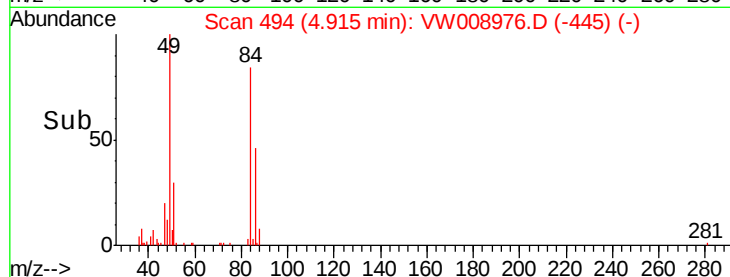


Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#25

2-Butanone

Concen: 6.848 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW008976.D

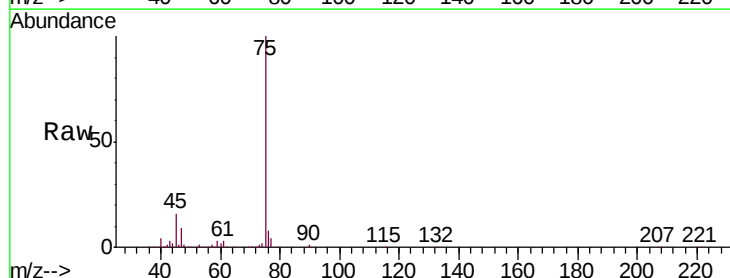
Acq: 04 Mar 2019 22:50

Tgt Ion: 43 Resp: 6848

Ion Ratio Lower Upper

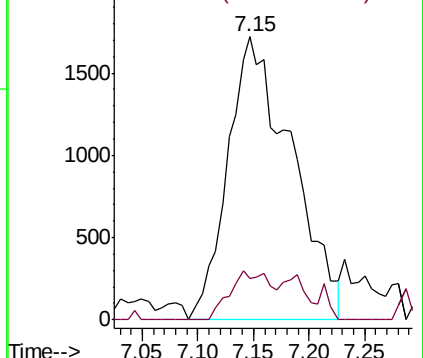
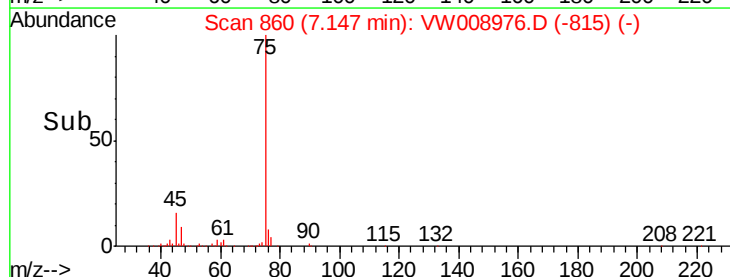
43 100

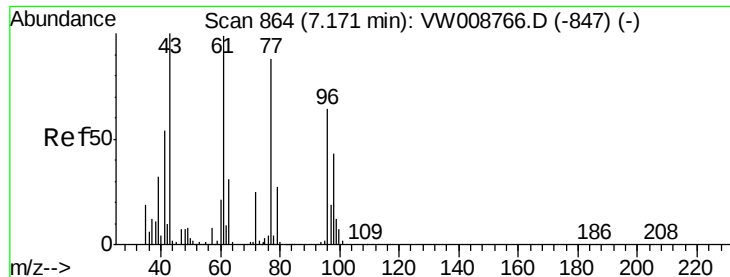
72 14.5 19.7 29.5#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW





#26

2,2-Dichloropropane

Concen: 1.055 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW008976.D

Acq: 04 Mar 2019 22:50

Instrument :

MSVOA_W

ClientSampleId :

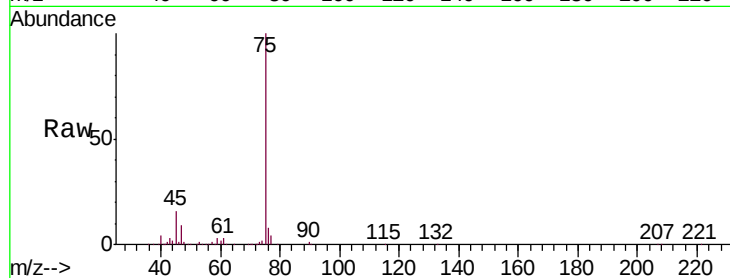
JC-03-030119-D

Tgt Ion: 77 Resp: 5503

Ion Ratio Lower Upper

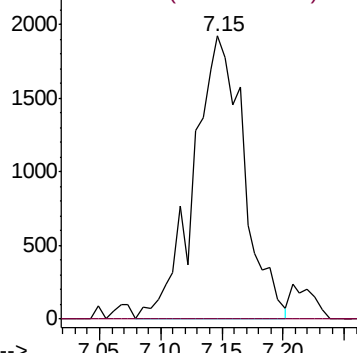
77 100

97 0.0 11.0 33.0#

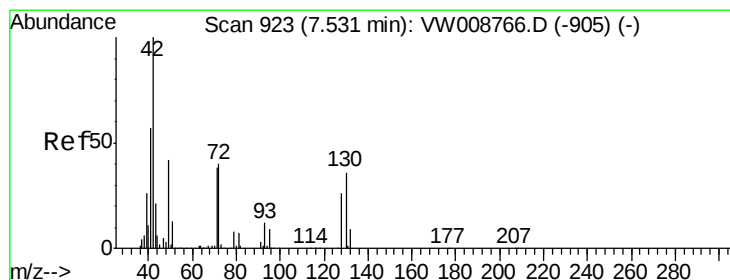
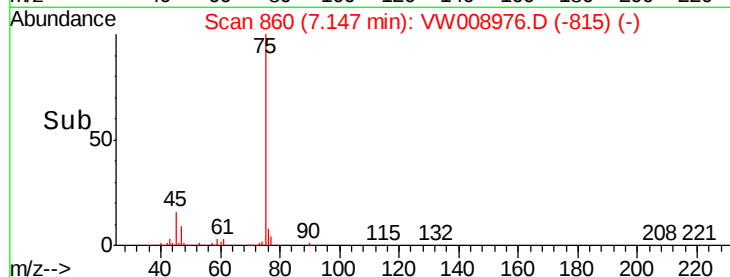


Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW



Time-->



#29

Tetrahydrofuran

Concen: 3.543 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW008976.D

Acq: 04 Mar 2019 22:50

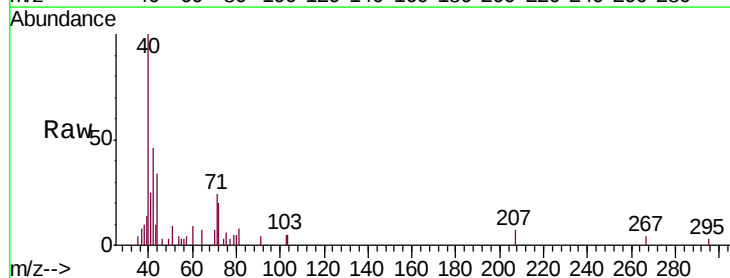
Tgt Ion: 42 Resp: 2258

Ion Ratio Lower Upper

42 100

72 46.7 32.7 49.1

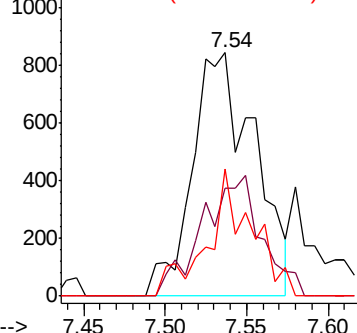
71 37.1 31.3 46.9



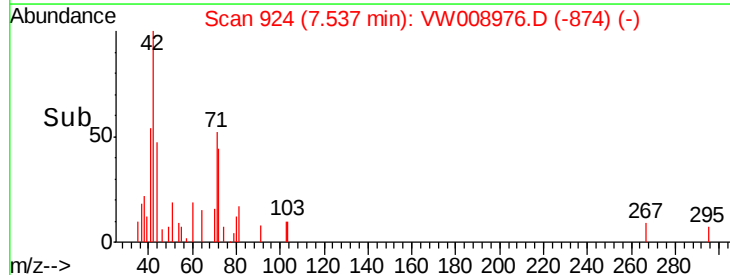
Abundance Ion 42.00 (41.70 to 42.70): VW

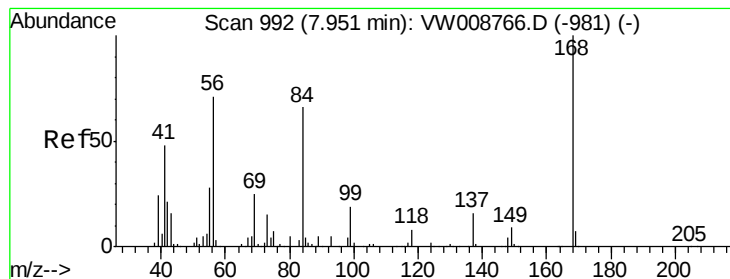
Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW



Time-->





#31

Cyclohexane

Concen: 1.669 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW008976.D

Acq: 04 Mar 2019 22:50

Instrument :

MSVOA_W

ClientSampleId :

JC-03-030119-D

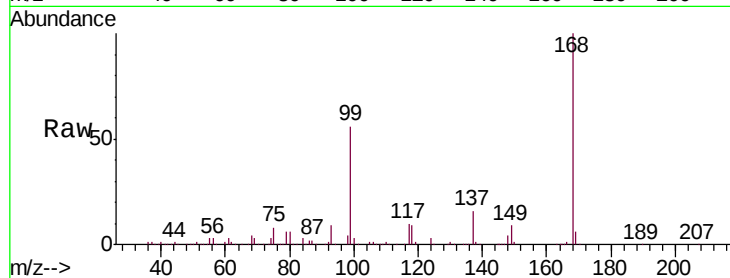
Tgt Ion: 56 Resp: 9709

Ion Ratio Lower Upper

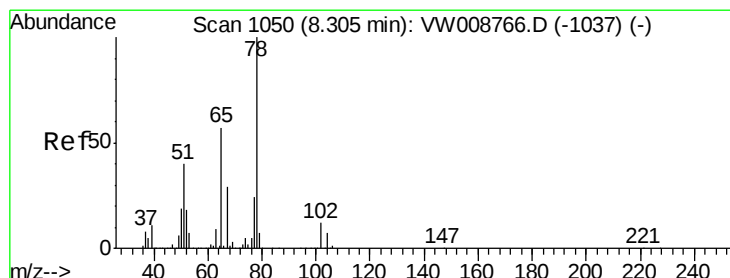
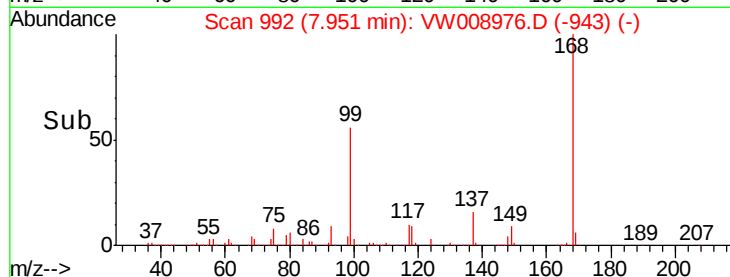
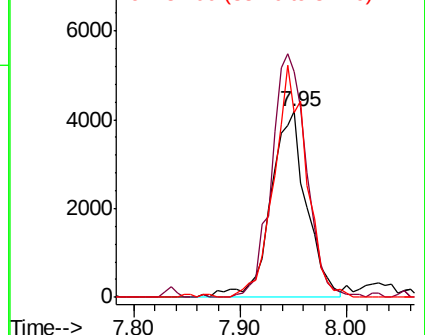
56 100

69 121.9 28.2 42.4#

84 98.0 74.1 111.1



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: 59.773 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW008976.D

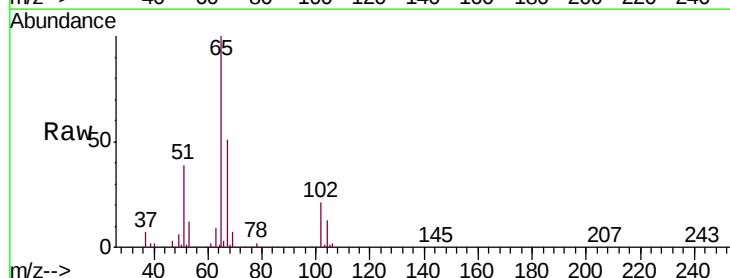
Acq: 04 Mar 2019 22:50

Tgt Ion: 65 Resp: 184455

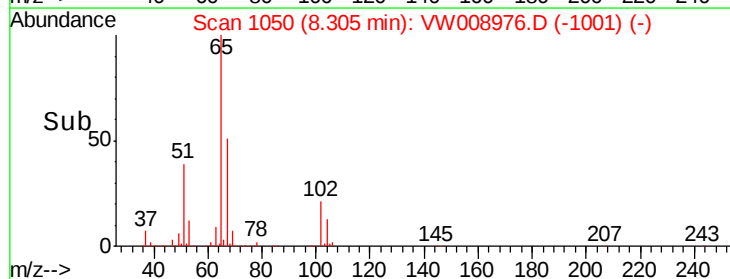
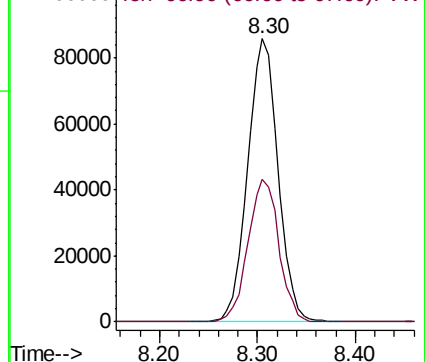
Ion Ratio Lower Upper

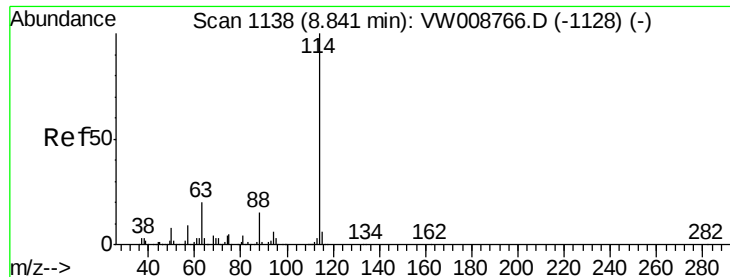
65 100

67 51.7 0.0 101.4



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

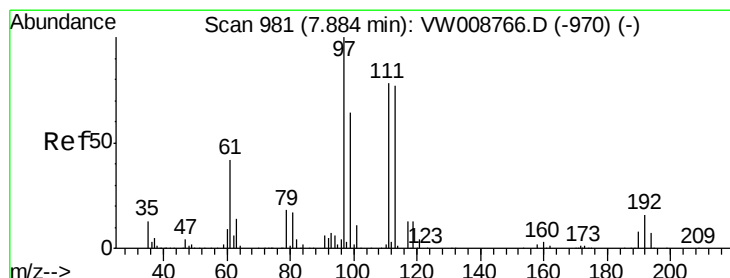
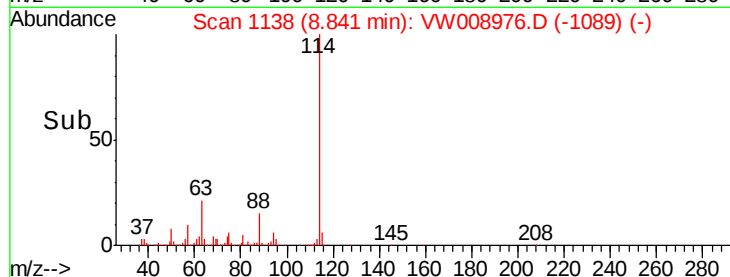
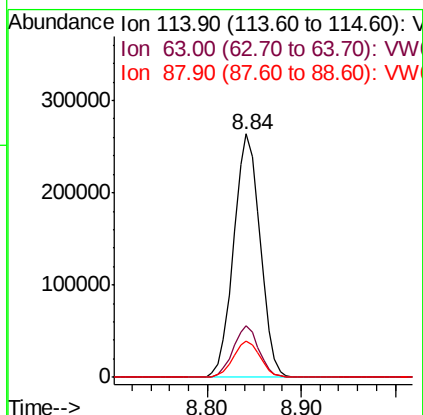
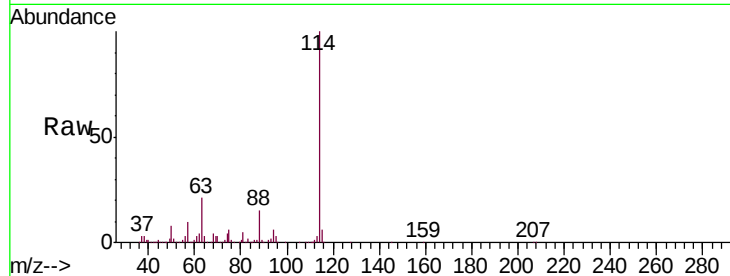




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.84 min Scan# 1138
Delta R.T. 0.00 min
Lab File: VW008976.D
Acq: 04 Mar 2019 22:50

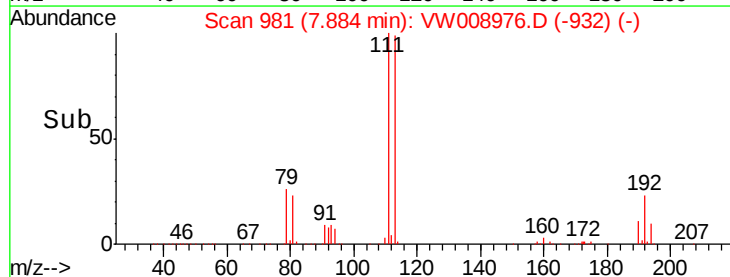
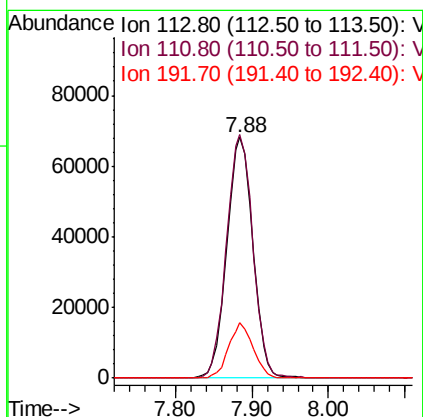
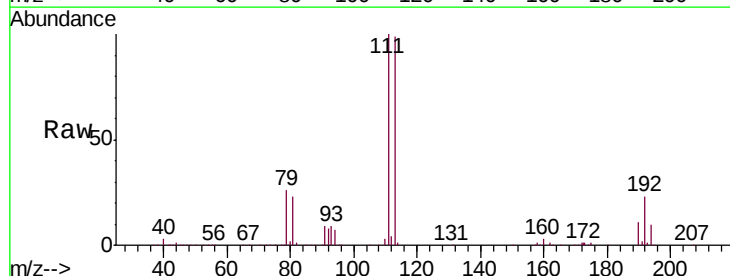
Instrument :
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JC-03-030119-D

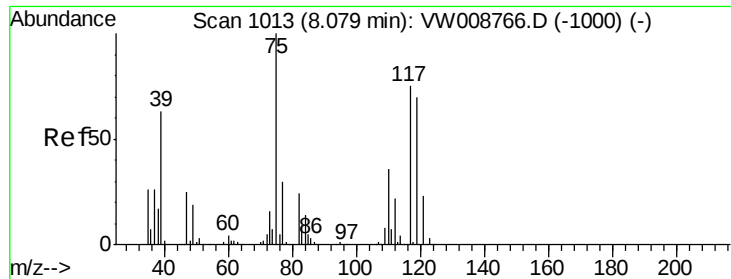
Tgt Ion:114 Resp: 514638
Ion Ratio Lower Upper
114 100
63 21.1 0.0 40.8
88 15.0 0.0 30.4



#35
Dibromofluoromethane
Concen: 51.863 ug/l
RT: 7.88 min Scan# 981
Delta R.T. -0.00 min
Lab File: VW008976.D
Acq: 04 Mar 2019 22:50

Tgt Ion:113 Resp: 160253
Ion Ratio Lower Upper
113 100
111 102.6 81.9 122.9
192 21.4 17.1 25.7

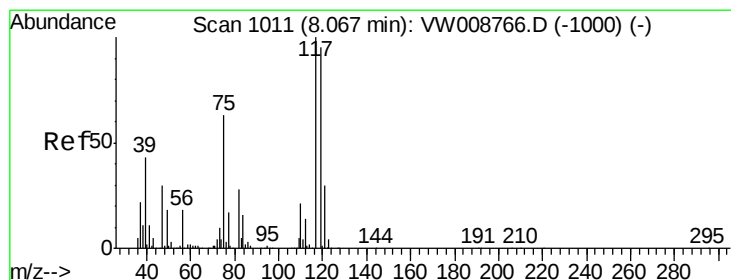
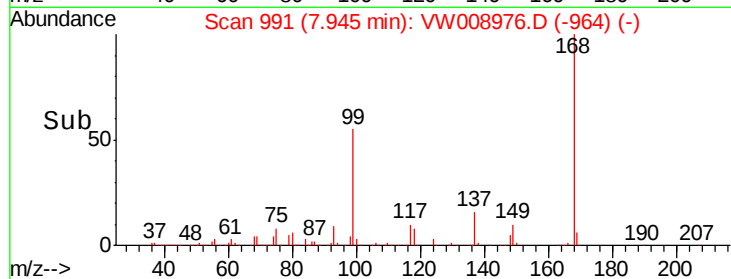
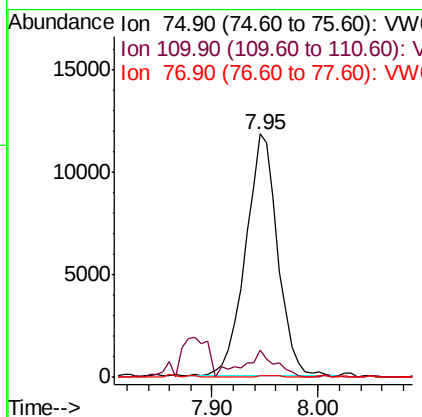
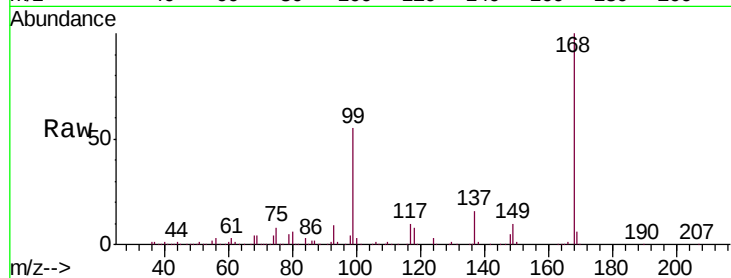




#36
 1,1-Dichloropropene
 Concen: 4.969 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW008976.D
 Acq: 04 Mar 2019 22:50

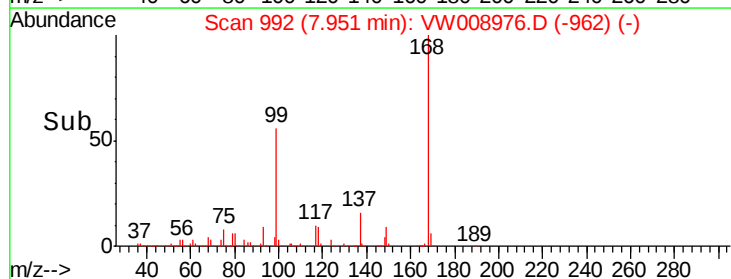
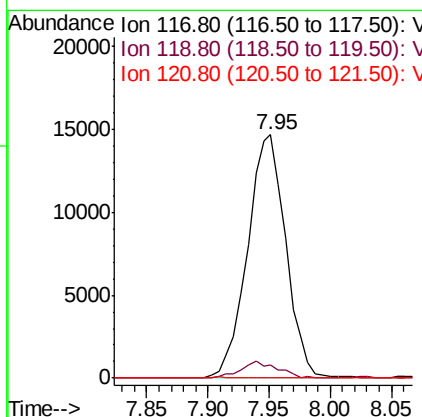
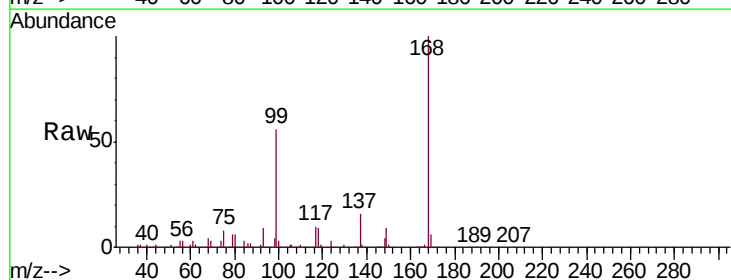
Instrument :
 MSVOA_W
 ClientSampleId :
 JC-03-030119-D

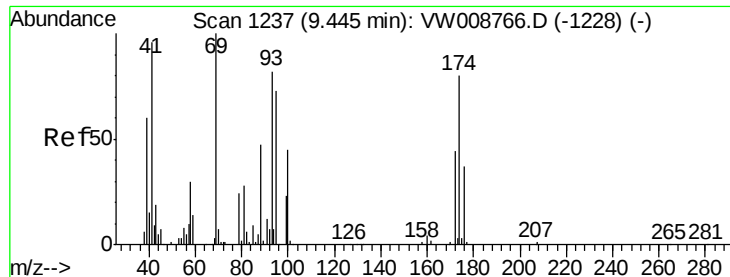
Tgt Ion: 75 Resp: 24893
 Ion Ratio Lower Upper
 75 100
 110 10.0 17.5 52.6#
 77 0.4 24.5 36.7#



#38
 Carbon Tetrachloride
 Concen: 6.049 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.12 min
 Lab File: VW008976.D
 Acq: 04 Mar 2019 22:50

Tgt Ion: 117 Resp: 31960
 Ion Ratio Lower Upper
 117 100
 119 5.2 76.1 114.1#
 121 0.0 24.0 36.0#





#49

1,4-Dioxane

Concen: 1.993 ug/l

RT: 9.45 min Scan# 1238

Delta R.T. 0.01 min

Lab File: VW008976.D

Acq: 04 Mar 2019 22:50

Instrument :

MSVOA_W

ClientSampleId :

JC-03-030119-D

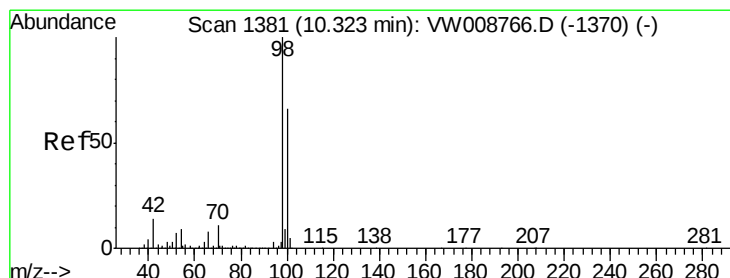
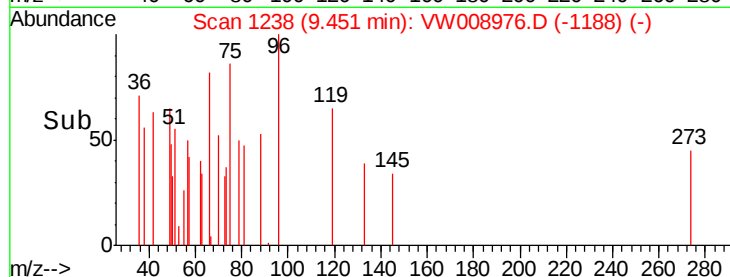
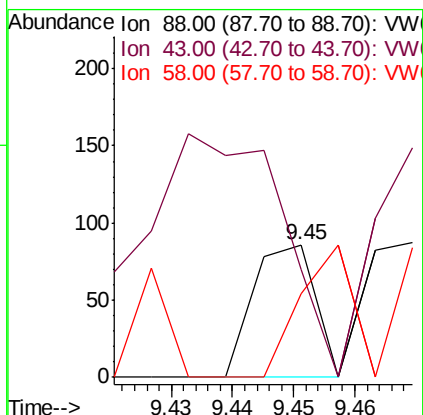
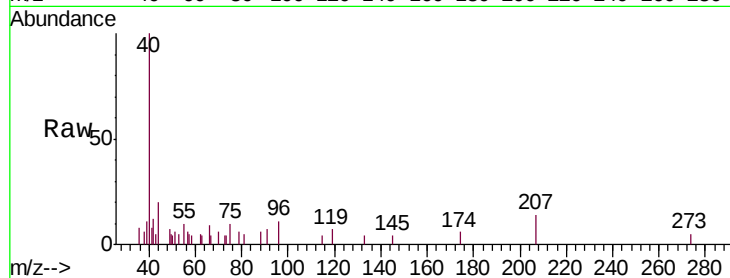
Tgt Ion: 88 Resp: 60

Ion Ratio Lower Upper

88 100

43 0.0 29.0 43.4#

58 85.0 52.0 78.0#



#50

Toluene-d8

Concen: 51.114 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008976.D

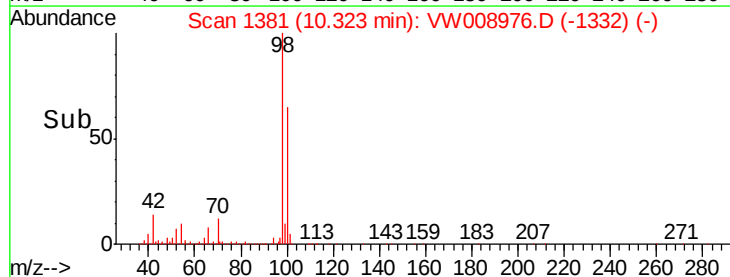
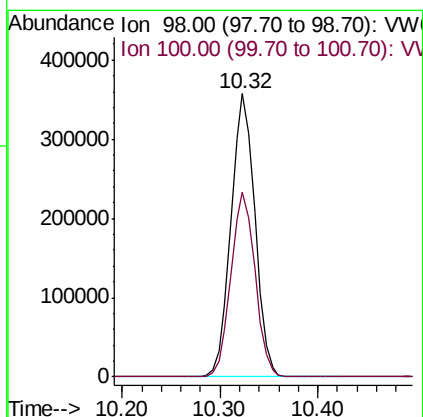
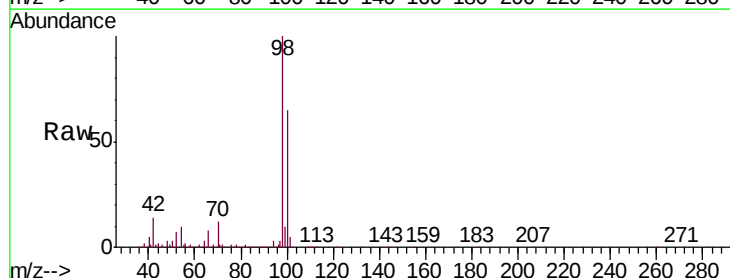
Acq: 04 Mar 2019 22:50

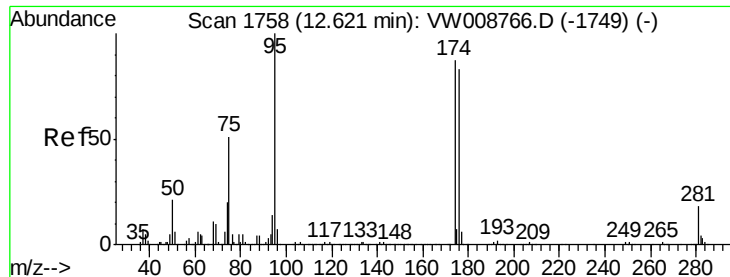
Tgt Ion: 98 Resp: 609696

Ion Ratio Lower Upper

98 100

100 65.7 52.4 78.6

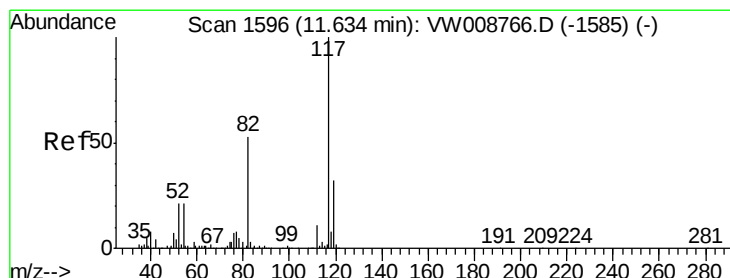
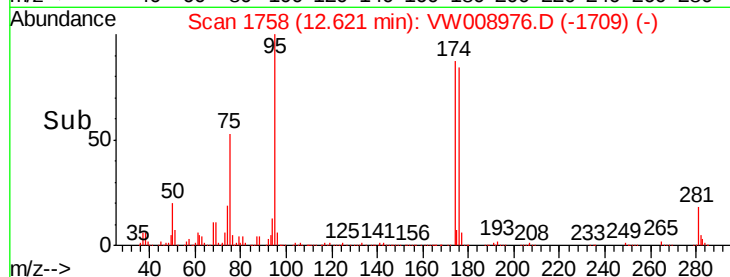
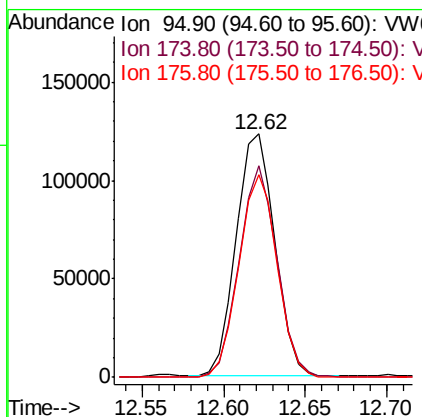
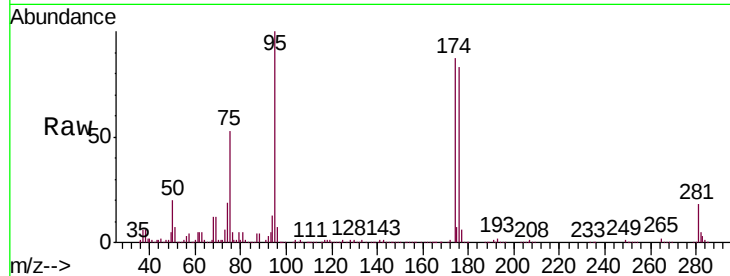




#62
4-Bromofluorobenzene
Concen: 43.507 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.00 min
Lab File: VW008976.D
Acq: 04 Mar 2019 22:50

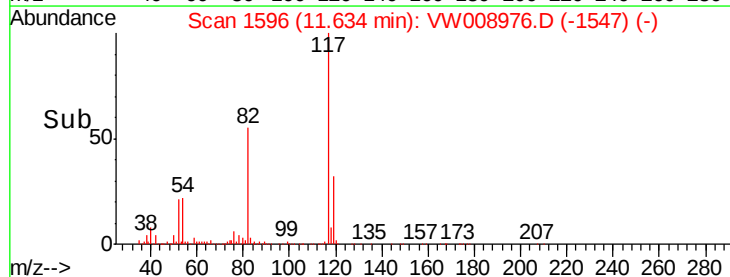
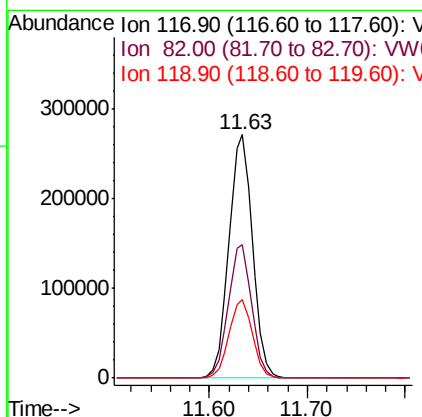
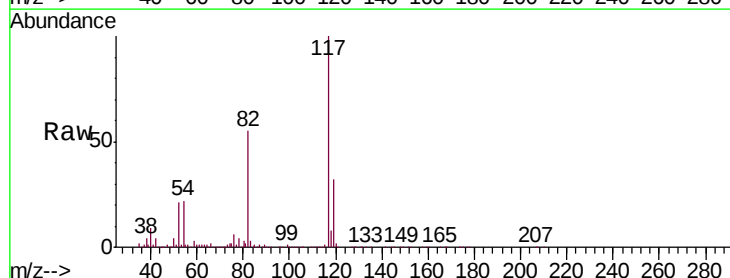
Instrument :
MSVOA_W
ClientSampleId :
JC-03-030119-D

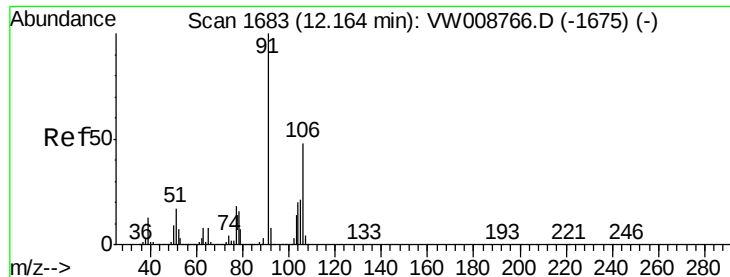
Tgt Ion: 95 Resp: 203191
Ion Ratio Lower Upper
95 100
174 85.4 0.0 169.2
176 83.0 0.0 163.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW008976.D
Acq: 04 Mar 2019 22:50

Tgt Ion: 117 Resp: 452278
Ion Ratio Lower Upper
117 100
82 54.7 42.2 63.4
119 32.0 25.9 38.9

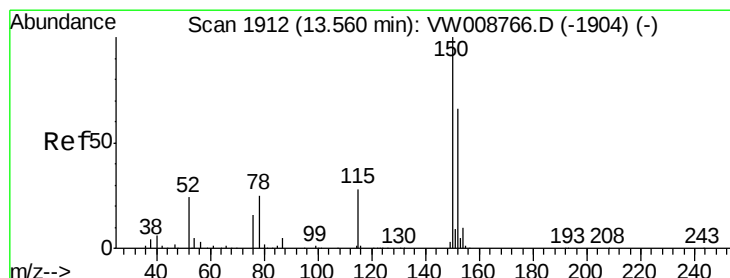
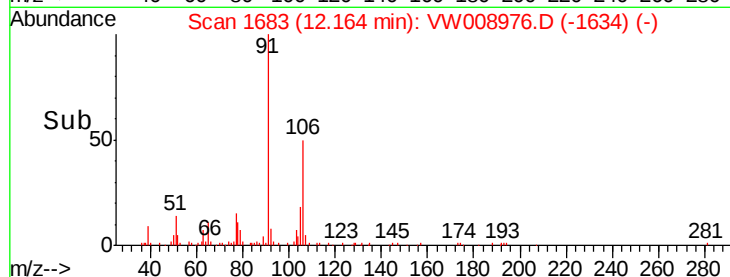
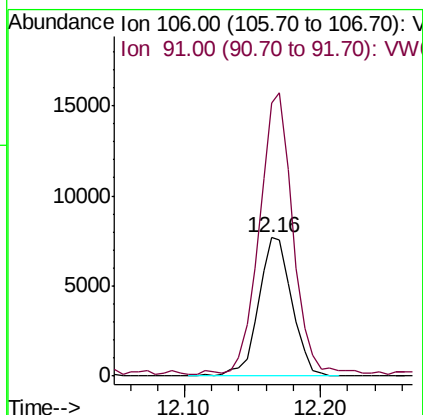
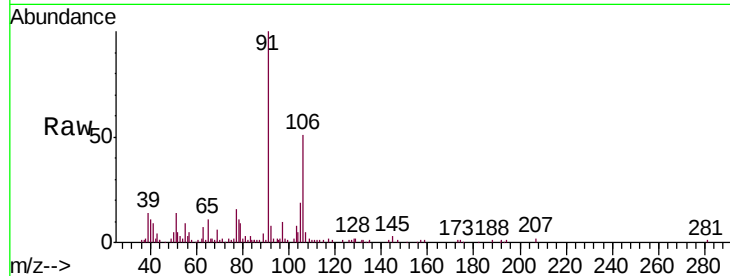




#69
o-Xylene
Concen: 2.078 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW008976.D
Acq: 04 Mar 2019 22:50

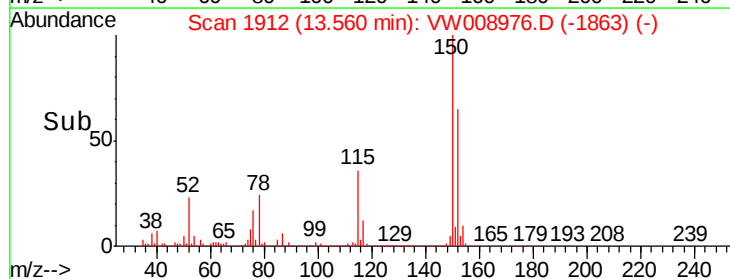
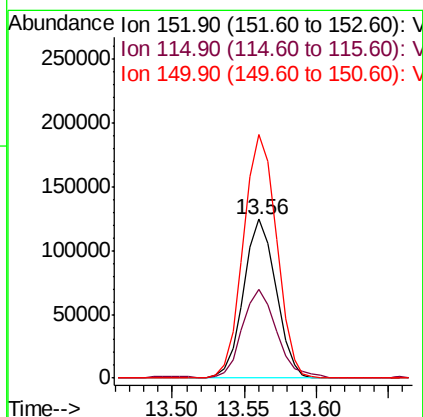
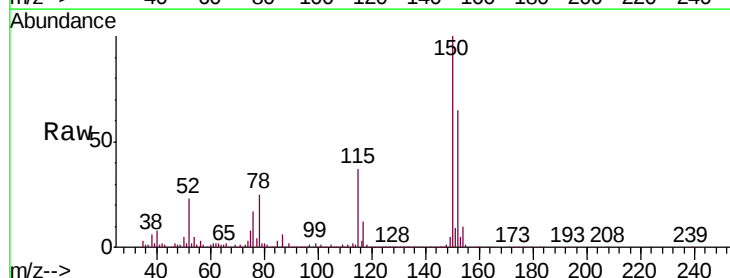
Instrument :
MSVOA_W
ClientSampleId :
JC-03-030119-D

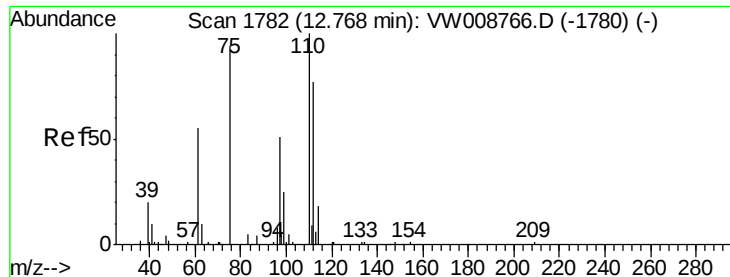
Tgt Ion:106 Resp: 13247
Ion Ratio Lower Upper
106 100
91 201.0 106.2 318.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW008976.D
Acq: 04 Mar 2019 22:50

Tgt Ion:152 Resp: 194674
Ion Ratio Lower Upper
152 100
115 58.7 28.6 85.8
150 156.7 0.0 348.0

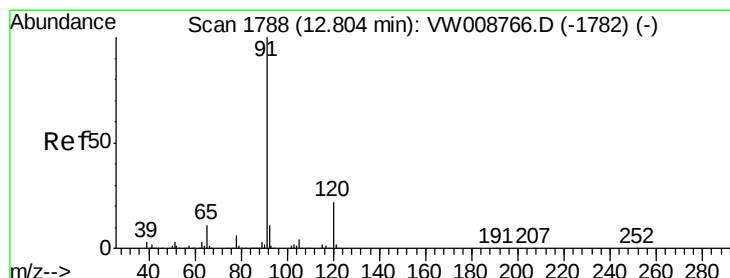
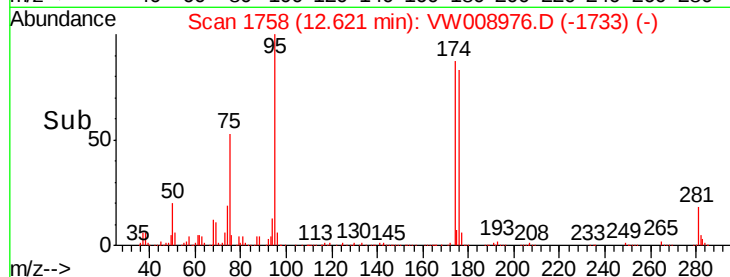
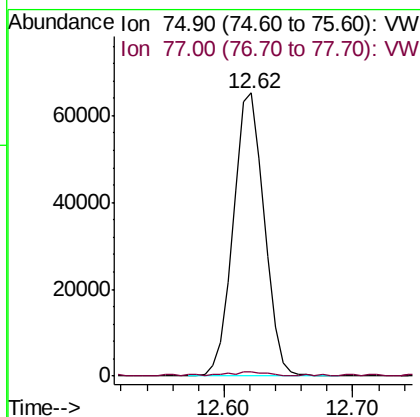
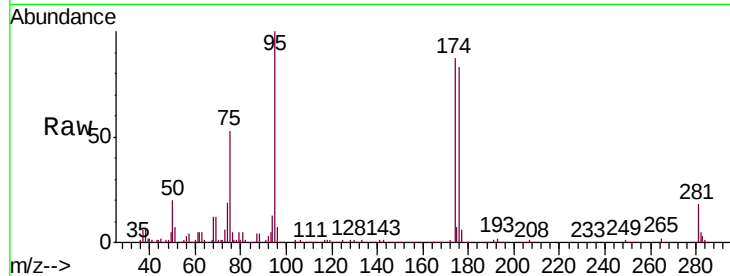




#76
 1,2,3-Trichloropropane
 Concen: 67.866 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.15 min
 Lab File: VW008976.D
 Acq: 04 Mar 2019 22:50

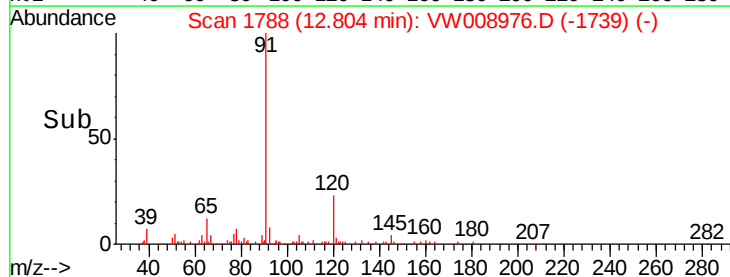
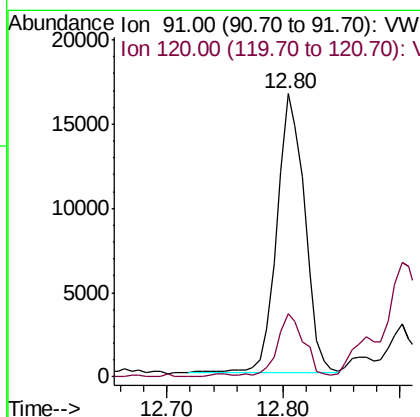
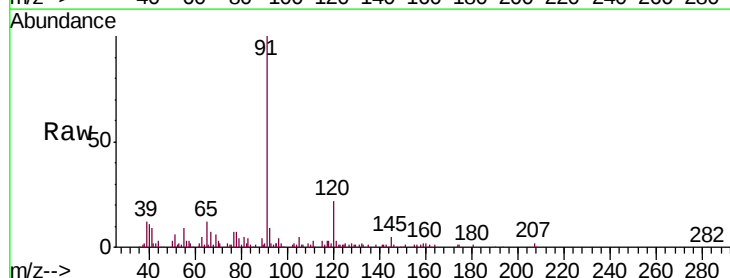
Instrument :
 MSVOA_W
 ClientSampleId :
 JC-03-030119-D

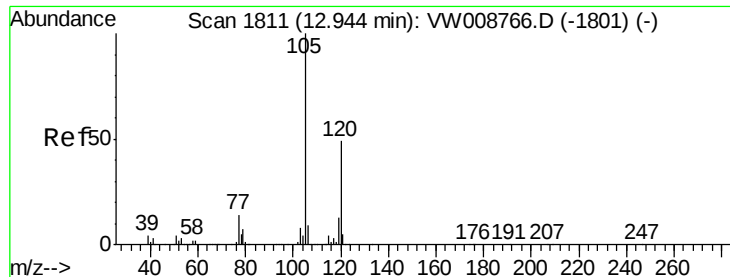
Tgt Ion: 75 Resp: 109080
 Ion Ratio Lower Upper
 75 100
 77 1.5 0.0 0.0#



#78
 n-propylbenzene
 Concen: 1.660 ug/l
 RT: 12.80 min Scan# 1788
 Delta R.T. 0.00 min
 Lab File: VW008976.D
 Acq: 04 Mar 2019 22:50

Tgt Ion: 91 Resp: 27104
 Ion Ratio Lower Upper
 91 100
 120 20.8 11.5 34.4

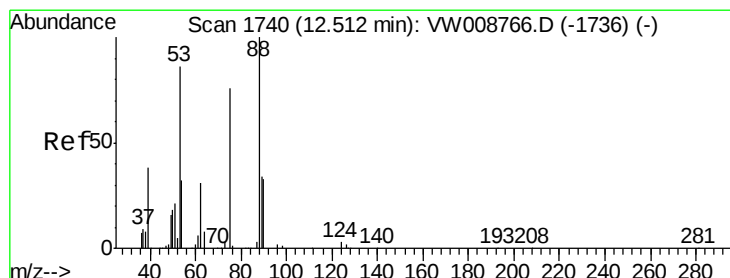
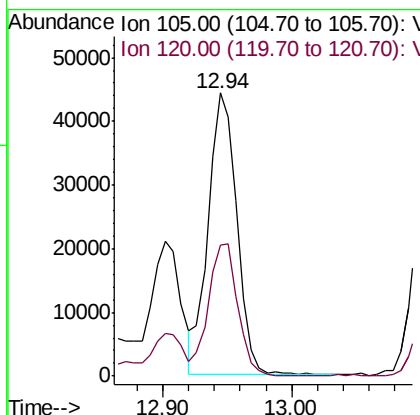
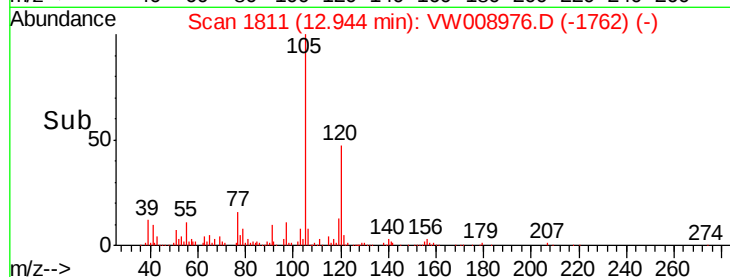
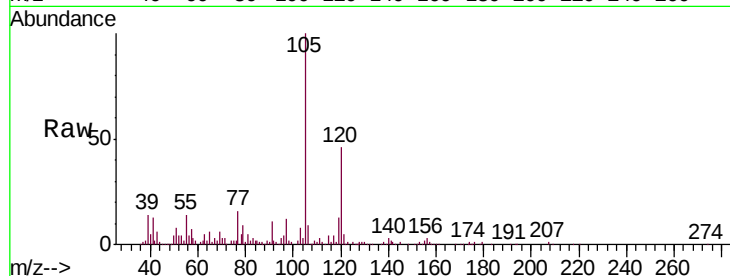




#80
 1,3,5-Trimethylbenzene
 Concen: 5.961 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. -0.00 min
 Lab File: VW008976.D
 Acq: 04 Mar 2019 22:50

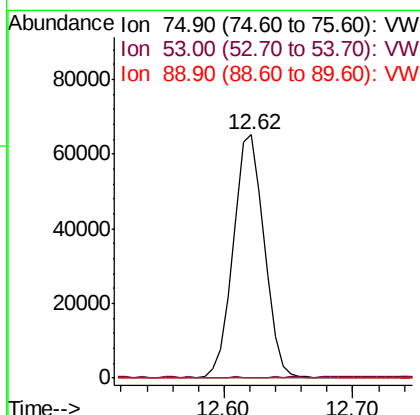
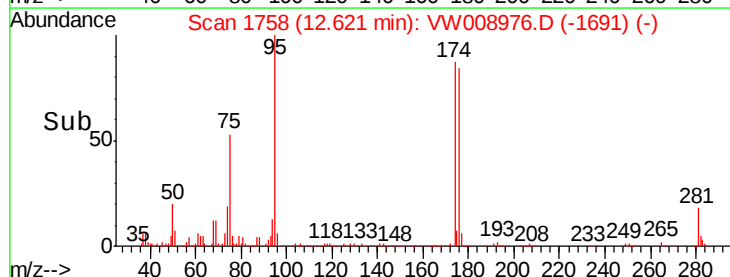
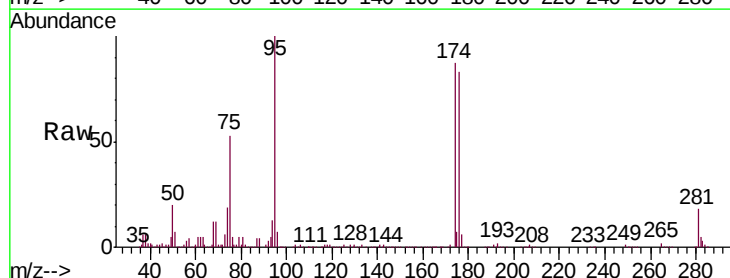
Instrument :
 MSVOA_W
 ClientSampleId :
 JC-03-030119-D

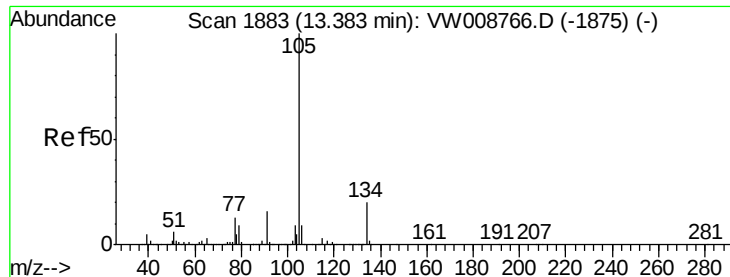
Tgt Ion: 105 Resp: 69137
 Ion Ratio Lower Upper
 105 100
 120 48.3 24.8 74.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 164.987 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.11 min
 Lab File: VW008976.D
 Acq: 04 Mar 2019 22:50

Tgt Ion: 75 Resp: 109080
 Ion Ratio Lower Upper
 75 100
 53 0.1 88.2 132.2#
 89 0.1 39.5 59.3#





#85

sec-Butylbenzene

Concen: 1.054 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW008976.D

Acq: 04 Mar 2019 22:50

Instrument :

MSVOA_W

ClientSampleId :

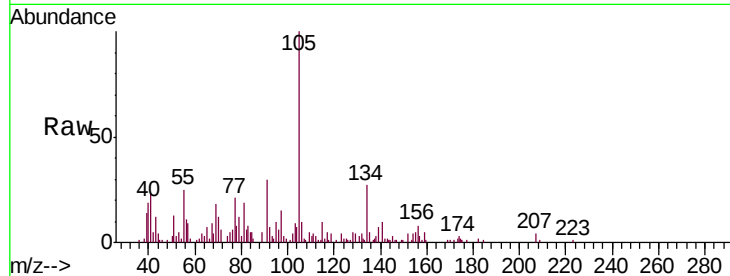
JC-03-030119-D

Tgt Ion:105 Resp: 15199

Ion Ratio Lower Upper

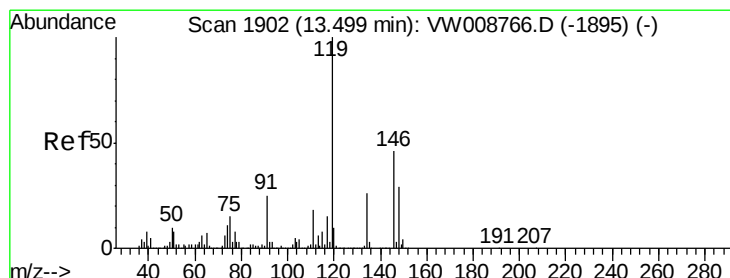
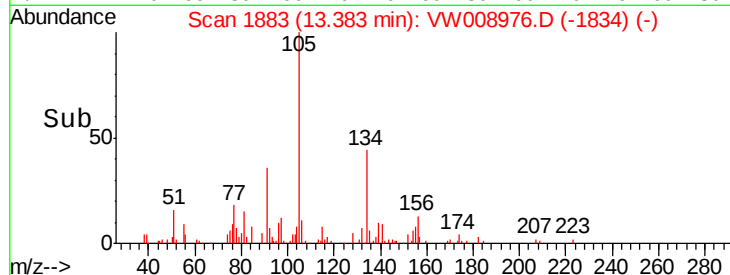
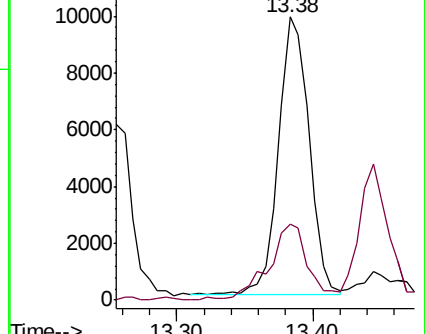
105 100

134 36.0 10.4 31.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 1.248 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW008976.D

Acq: 04 Mar 2019 22:50

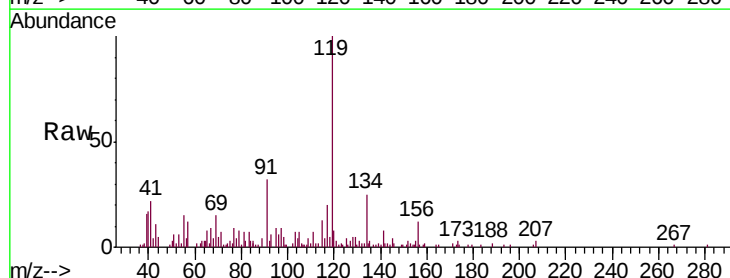
Tgt Ion:119 Resp: 16491

Ion Ratio Lower Upper

119 100

134 28.4 13.1 39.3

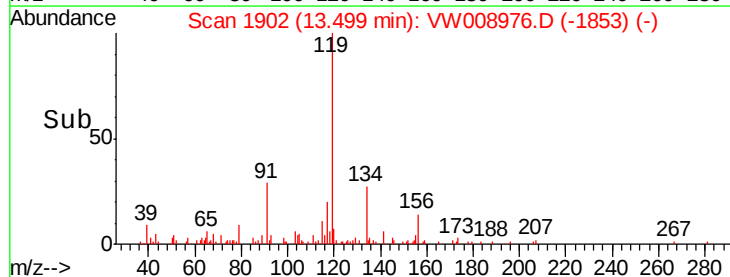
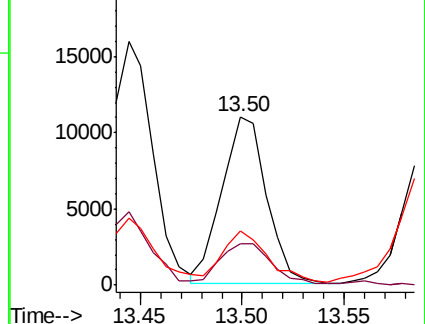
91 30.5 12.1 36.3

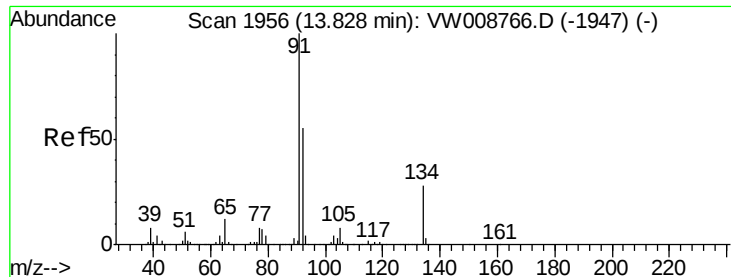


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#89

n-Butylbenzene

Concen: 1.574 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VW008976.D

Acq: 04 Mar 2019 22:50

Instrument :

MSVOA_W

ClientSampleId :

JC-03-030119-D

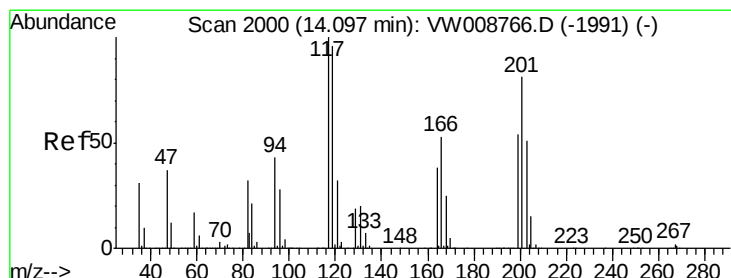
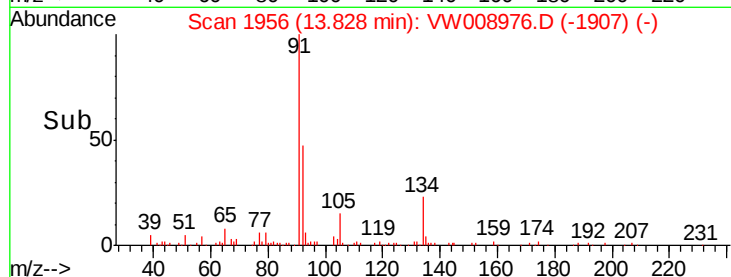
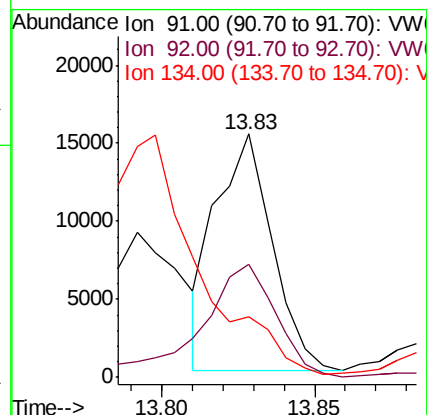
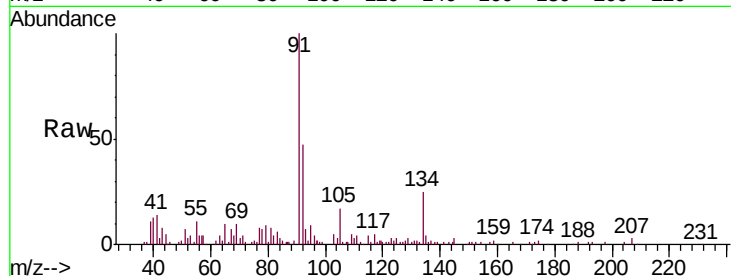
Tgt Ion: 91 Resp: 19496

Ion Ratio Lower Upper

91 100

92 64.0 26.8 80.4

134 0.0 13.5 40.4#



#90

Hexachloroethane

Concen: 2.606 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. 0.01 min

Lab File: VW008976.D

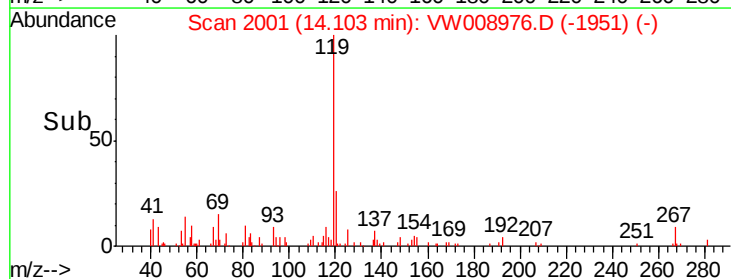
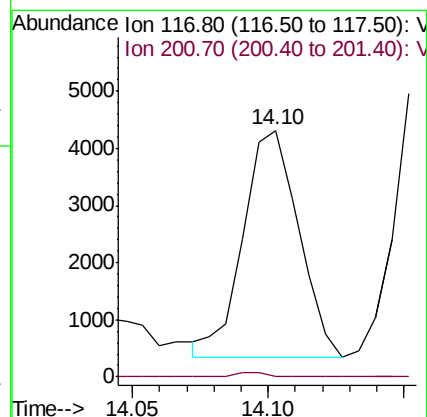
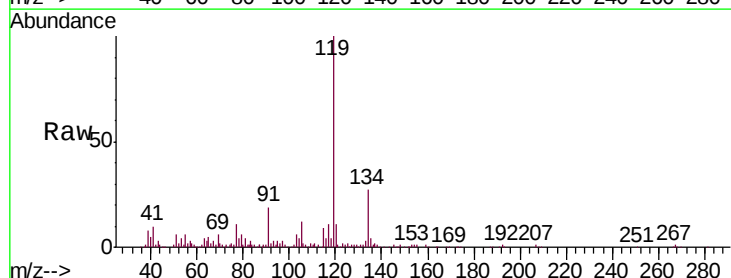
Acq: 04 Mar 2019 22:50

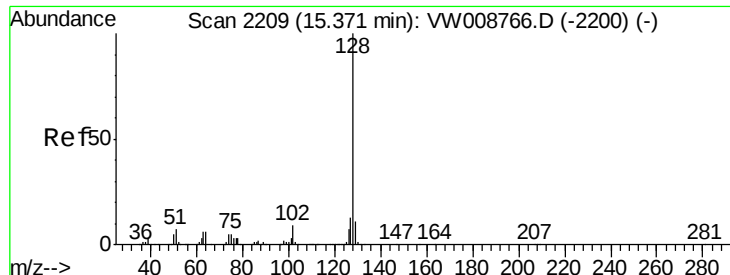
Tgt Ion: 117 Resp: 5640

Ion Ratio Lower Upper

117 100

201 1.0 40.3 120.8#

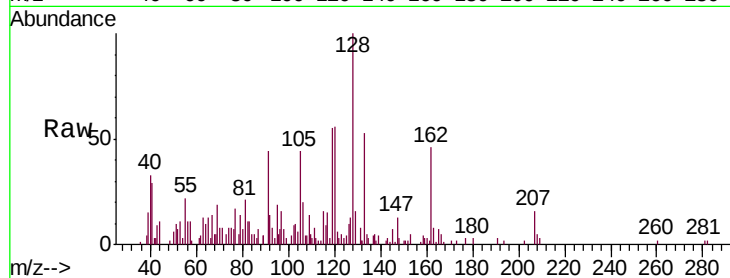




#95
Naphthalene
Concen: 1.239 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW008976.D
Acq: 04 Mar 2019 22:50

Instrument :
MSVOA_W
ClientSampleId :
JC-03-030119-D

Tgt Ion:128 Resp: 8865
Ion Ratio Lower Upper
128 100
127 14.7 10.8 16.2
129 5.6 8.7 13.1#



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

