

Data File : VW008981.D
Acq On : 05 Mar 2019 01:04
Operator : SY/VA
Sample : K1688-17
Misc : 6.42G/5ML/MSVOA_W/SOIL
ALS Vial : 19 Sample Multiplier: 1

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

Quant Time: Mar 05 06:33:40 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	342412	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	527594	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	470877	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	210764	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	191488	59.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.26%	
35) Dibromofluoromethane	7.88	113	158938	50.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.34%	
50) Toluene-d8	10.32	98	629454	51.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.94%	
62) 4-Bromofluorobenzene	12.62	95	216974	45.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.64%	

Target Compounds

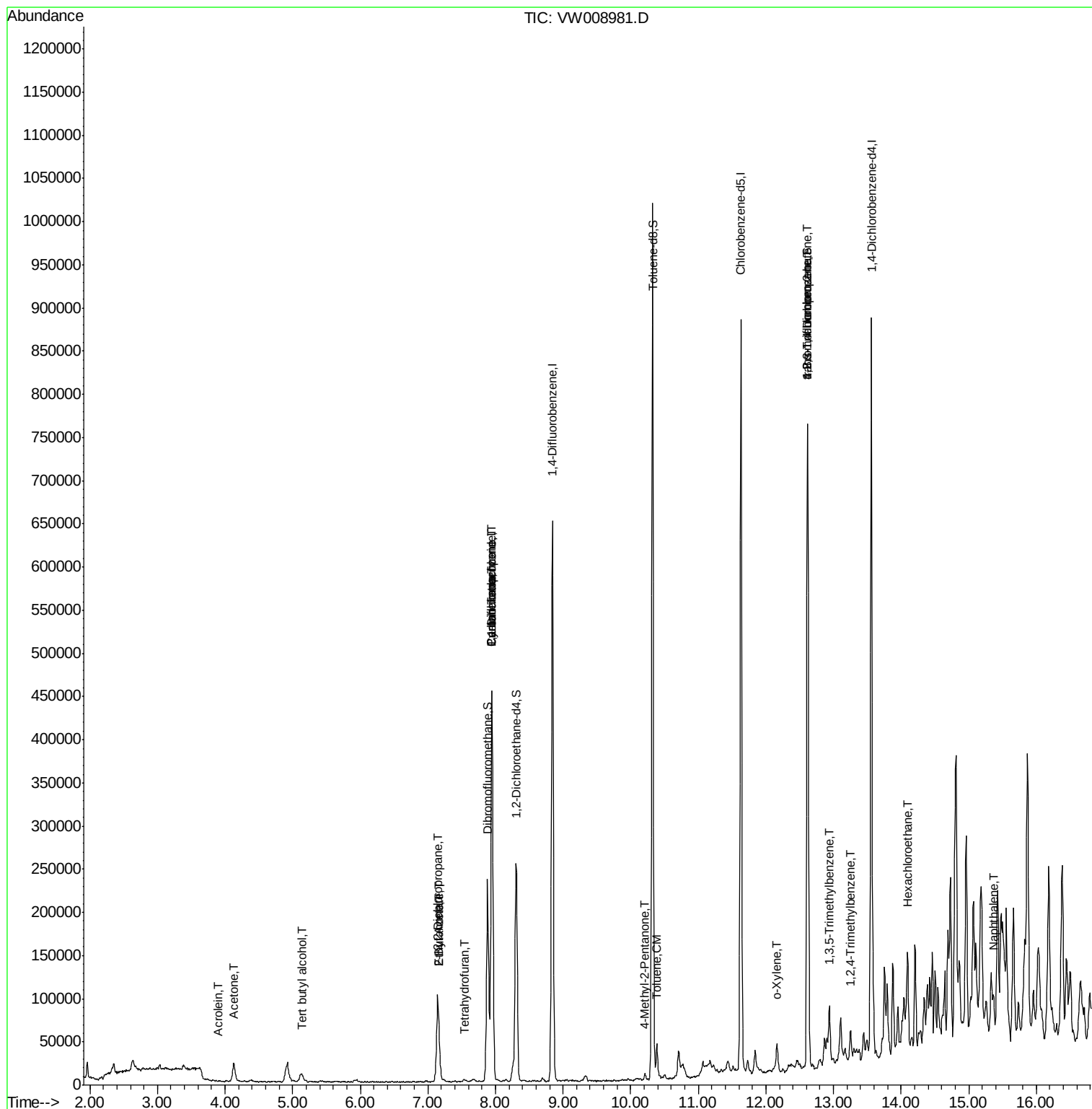
						Qvalue
11) Tert butyl alcohol	5.13	59	9390	32.842	ug/l #	71
13) Acrolein	3.89	56	71	19.997	ug/l #	1
16) Acetone	4.13	43	37657	50.587	ug/l	94
20) Methylene Chloride	4.92	84	15420	Below Cal		96
25) 2-Butanone	7.17	43	9044	8.690	ug/l #	77
26) 2,2-Dichloropropane	7.14	77	6867	1.265	ug/l #	54
29) Tetrahydrofuran	7.53	42	1925	2.902	ug/l #	81
31) Cyclohexane	7.95	56	8721	1.440	ug/l #	40
36) 1,1-Dichloropropene	7.95	75	26316	5.124	ug/l #	51
37) Ethyl Acetate	7.17	43	9044	3.787	ug/l #	35
38) Carbon Tetrachloride	7.95	117	32987	6.090	ug/l #	17
51) 4-Methyl-2-Pentanone	10.21	43	5155	2.130	ug/l	97
52) Toluene	10.38	92	15218	1.599	ug/l	96
69) o-Xylene	12.17	106	8196	1.235	ug/l	92
76) 1,2,3-Trichloropropane	12.62	75	115187	66.194	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.95	105	17441	1.389	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.62	75	115187	160.923	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.26	105	22110	1.701	ug/l	94
90) Hexachloroethane	14.10	117	5259	2.245	ug/l #	9
95) Naphthalene	15.37	128	13241	1.710	ug/l #	85

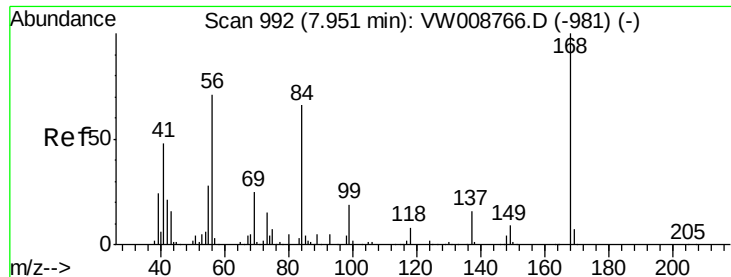
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW008981.D

Acq: 05 Mar 2019 01:04

Instrument :

MSVOA_W

ClientSampleId :

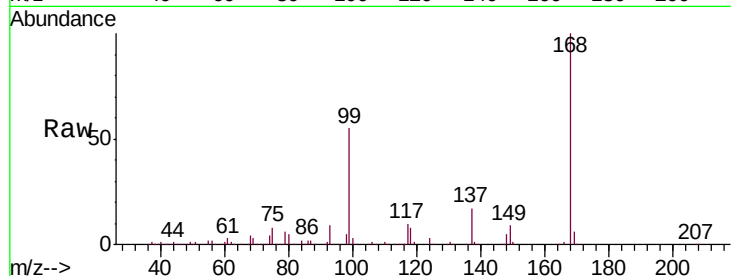
JC-03-030119-I

Tgt Ion:168 Resp: 342412

Ion Ratio Lower Upper

168 100

99 54.8 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

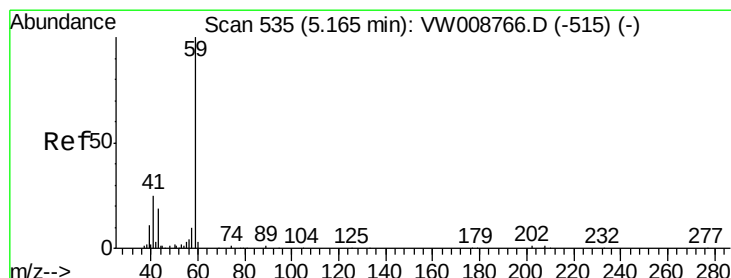
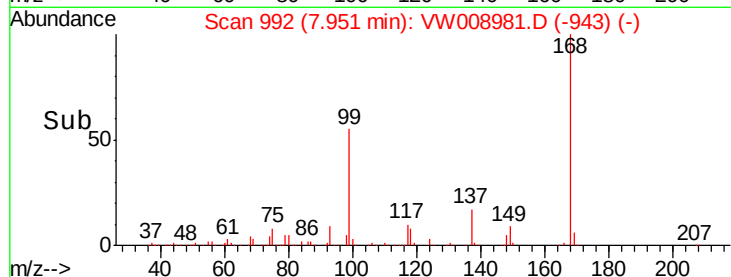
100000

50000

0

7.90 8.00

Time-->



#11

Tert butyl alcohol

Concen: 32.842 ug/l

RT: 5.13 min Scan# 529

Delta R.T. -0.04 min

Lab File: VW008981.D

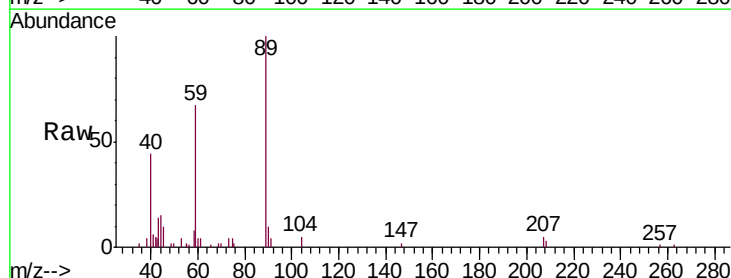
Acq: 05 Mar 2019 01:04

Tgt Ion: 59 Resp: 9390

Ion Ratio Lower Upper

59 100

57 0.6 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.13

2500

2000

1500

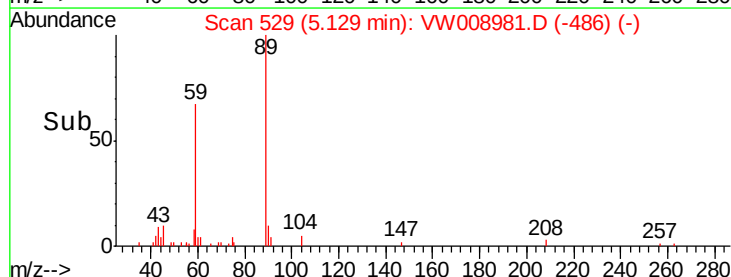
1000

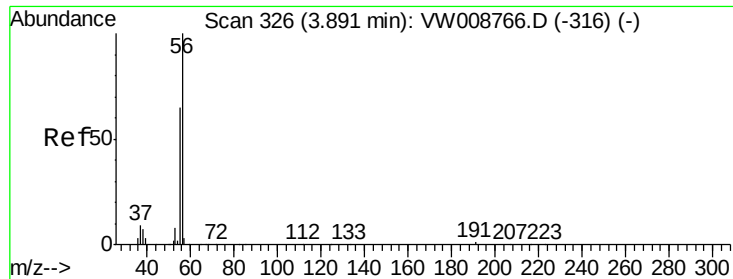
500

0

5.00 5.10 5.20 5.30

Time-->





#13

Acrolein

Concen: 19.997 ug/l

RT: 3.89 min Scan# 325

Delta R.T. -0.01 min

Lab File: VW008981.D

Acq: 05 Mar 2019 01:04

Instrument :

MSVOA_W

ClientSampleId :

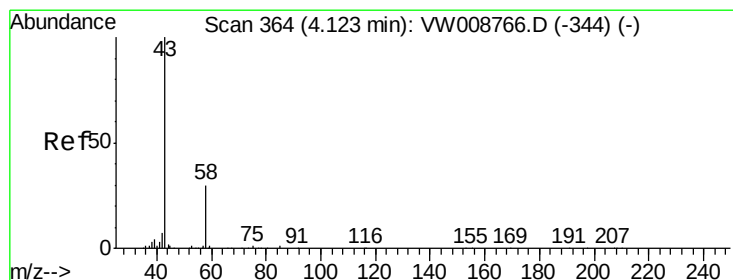
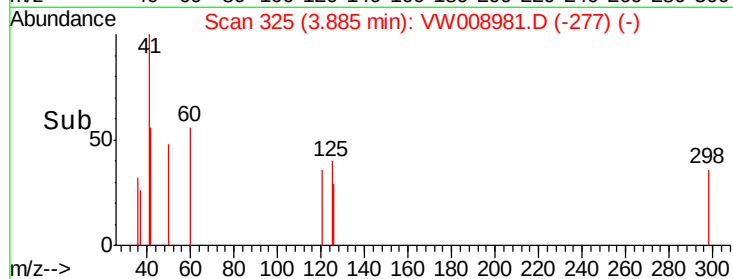
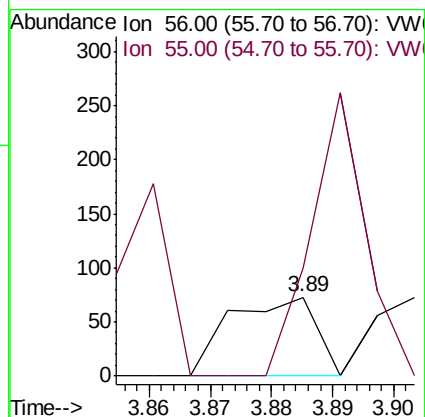
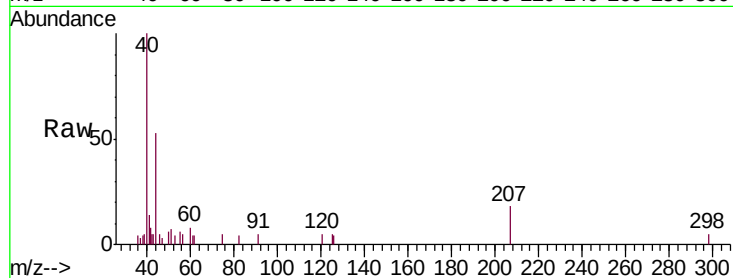
JC-03-030119-I

Tgt Ion: 56 Resp: 71

Ion Ratio Lower Upper

56 100

55 226.8 56.9 85.3#



#16

Acetone

Concen: 50.587 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW008981.D

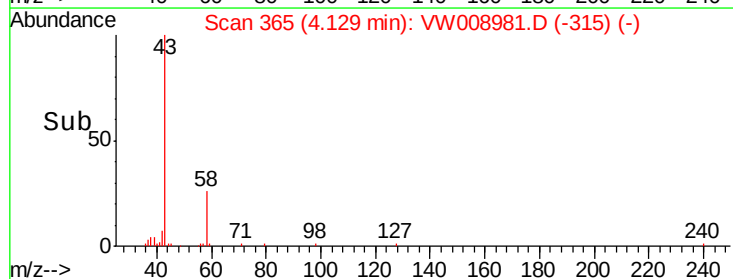
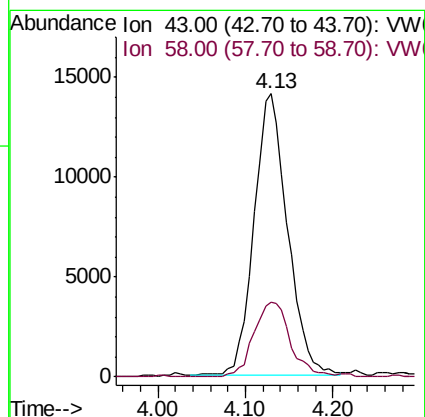
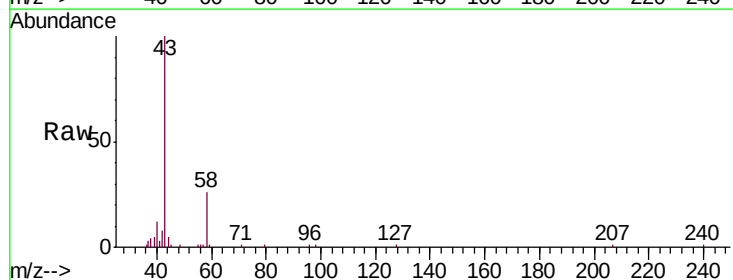
Acq: 05 Mar 2019 01:04

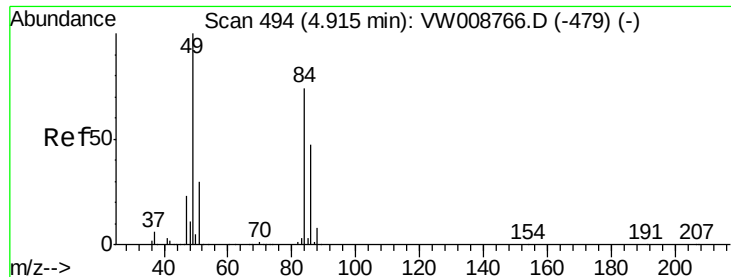
Tgt Ion: 43 Resp: 37657

Ion Ratio Lower Upper

43 100

58 26.4 23.8 35.6

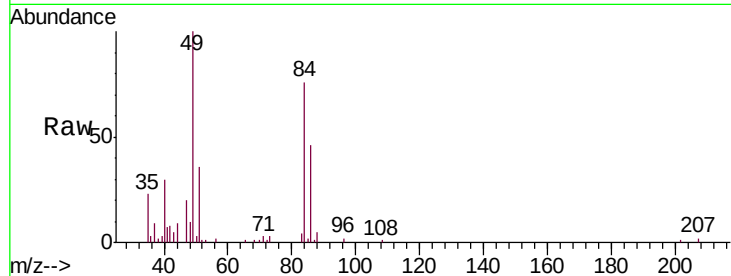




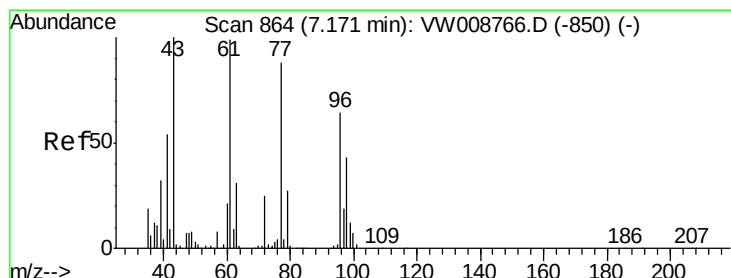
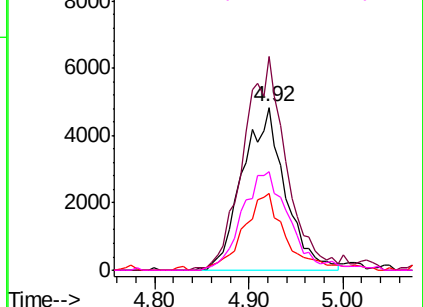
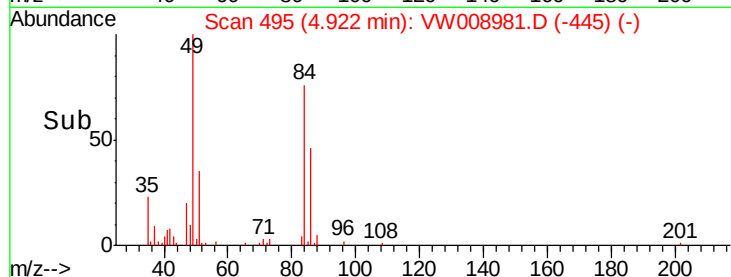
#20
Methylene Chloride
Concen: Below Cal
RT: 4.92 min Scan# 495
Delta R.T. 0.01 min
Lab File: VW008981.D
Acq: 05 Mar 2019 01:04

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

Tgt Ion: 84 Resp: 15420
Ion Ratio Lower Upper
84 100
49 131.3 108.2 162.2
51 47.3 32.7 49.1
86 60.9 50.3 75.5

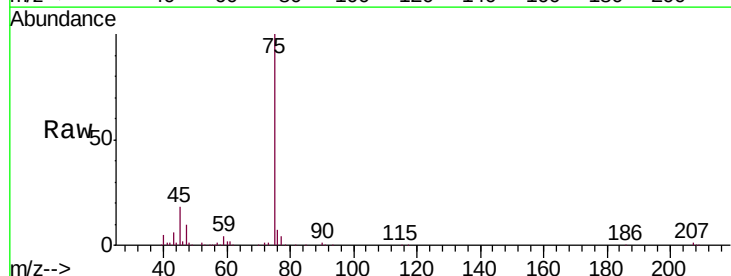


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

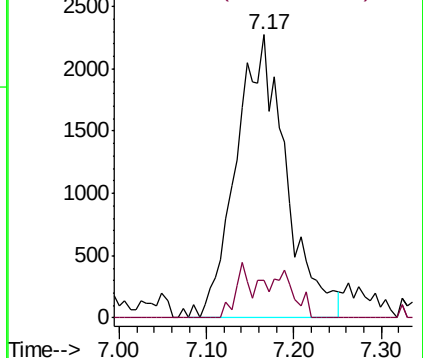
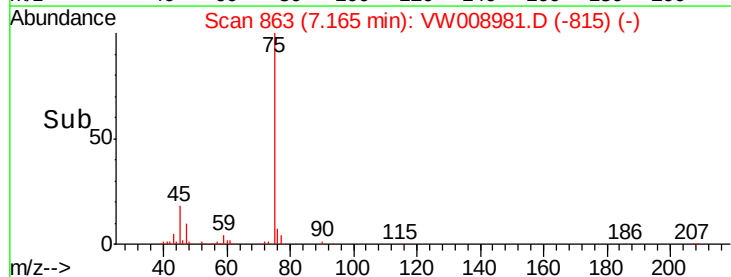


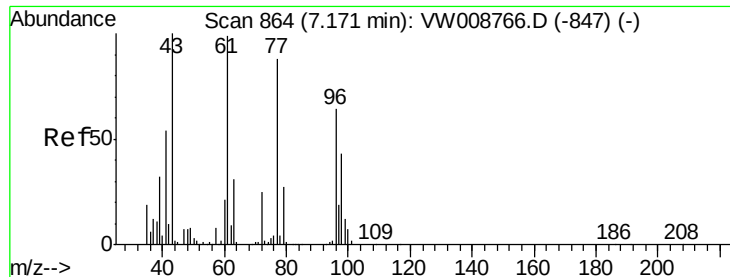
#25
2-Butanone
Concen: 8.690 ug/l
RT: 7.17 min Scan# 863
Delta R.T. -0.01 min
Lab File: VW008981.D
Acq: 05 Mar 2019 01:04

Tgt Ion: 43 Resp: 9044
Ion Ratio Lower Upper
43 100
72 13.4 19.7 29.5#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW

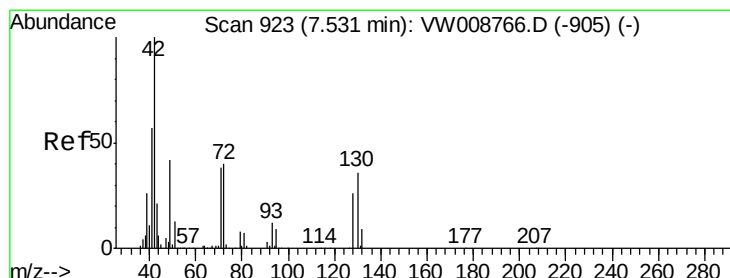
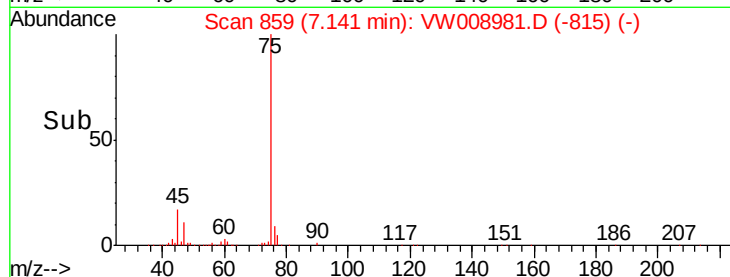
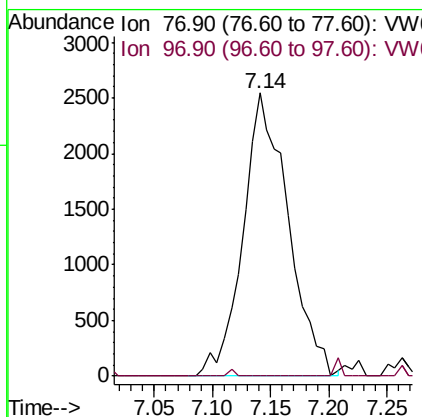
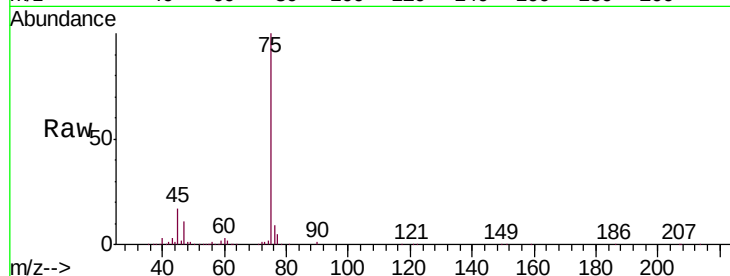




#26
 2,2-Dichloropropane
 Concen: 1.265 ug/l
 RT: 7.14 min Scan# 859
 Delta R.T. -0.03 min
 Lab File: VW008981.D
 Acq: 05 Mar 2019 01:04

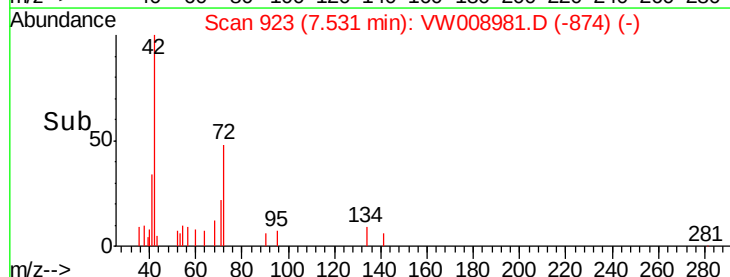
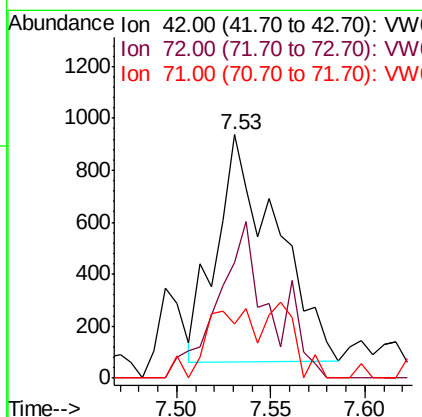
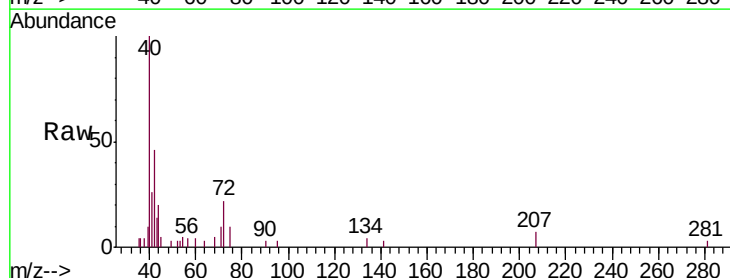
Instrument :
 MSVOA_W
 ClientSampleId :
 JC-03-030119-I

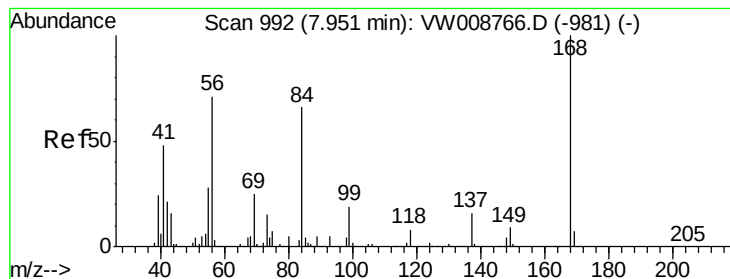
Tgt Ion: 77 Resp: 6867
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.0 33.0#



#29
 Tetrahydrofuran
 Concen: 2.902 ug/l
 RT: 7.53 min Scan# 923
 Delta R.T. 0.00 min
 Lab File: VW008981.D
 Acq: 05 Mar 2019 01:04

Tgt Ion: 42 Resp: 1925
 Ion Ratio Lower Upper
 42 100
 72 50.0 32.7 49.1#
 71 24.4 31.3 46.9#





#31

Cyclohexane

Concen: 1.440 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW008981.D

Acq: 05 Mar 2019 01:04

Instrument :

MSVOA_W

ClientSampleId :

JC-03-030119-I

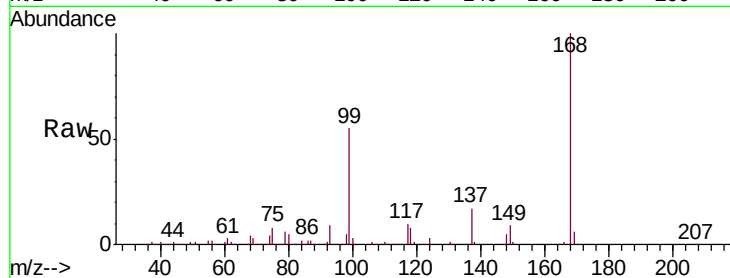
Tgt Ion: 56 Resp: 8721

Ion Ratio Lower Upper

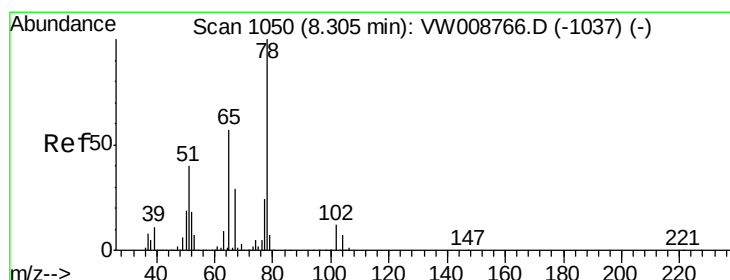
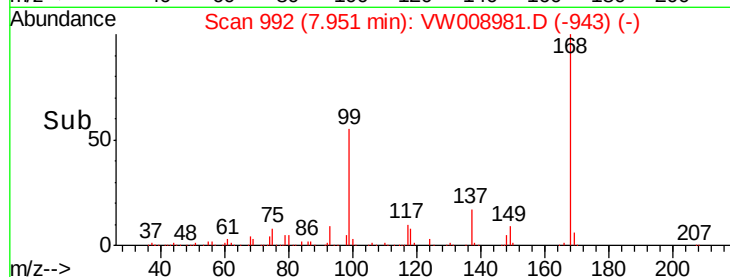
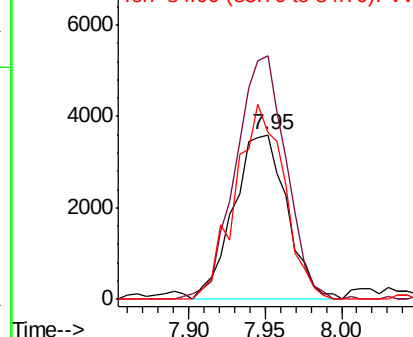
56 100

69 148.2 28.2 42.4#

84 101.2 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: 59.625 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW008981.D

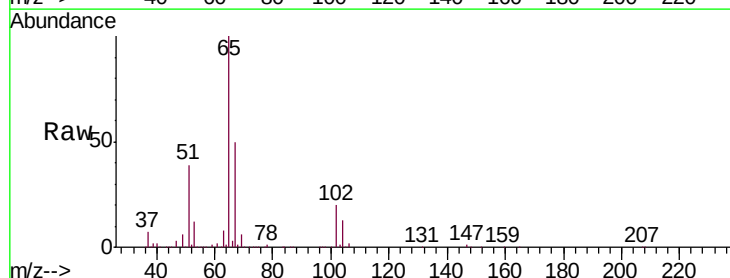
Acq: 05 Mar 2019 01:04

Tgt Ion: 65 Resp: 191488

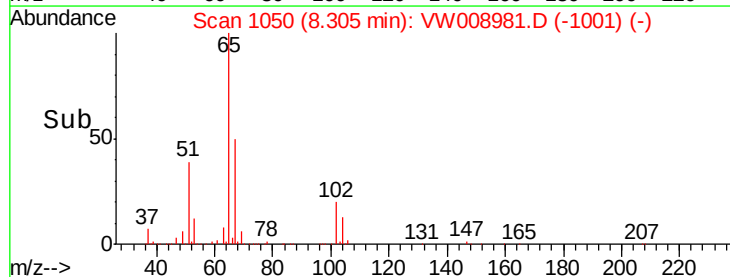
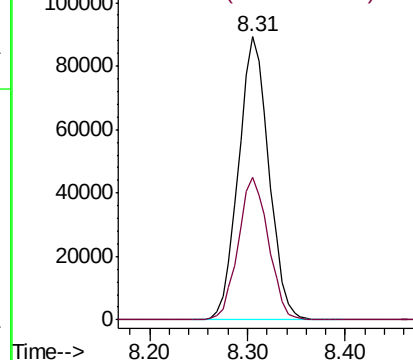
Ion Ratio Lower Upper

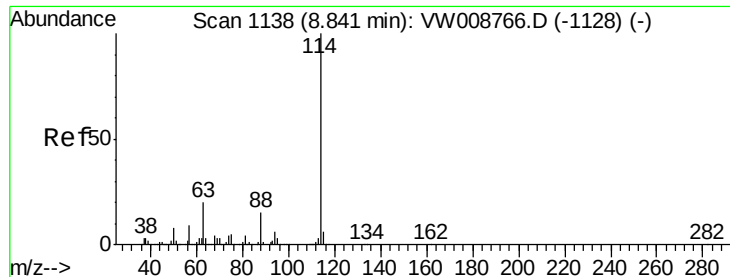
65 100

67 50.6 0.0 101.4



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

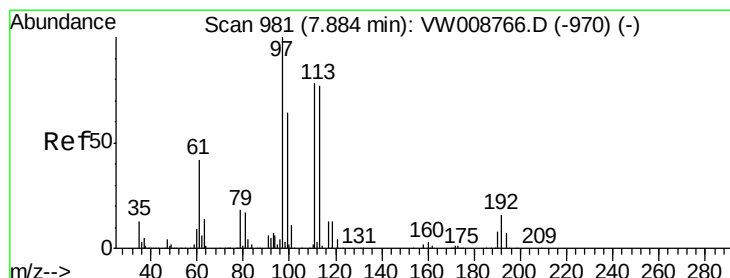
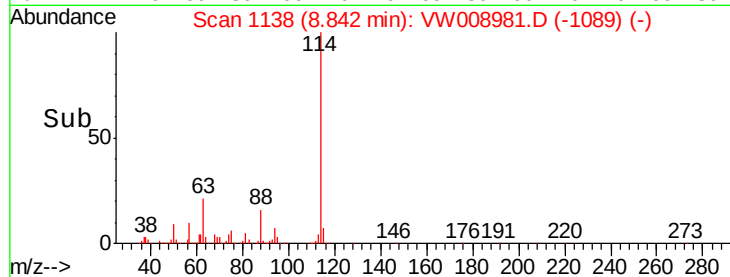
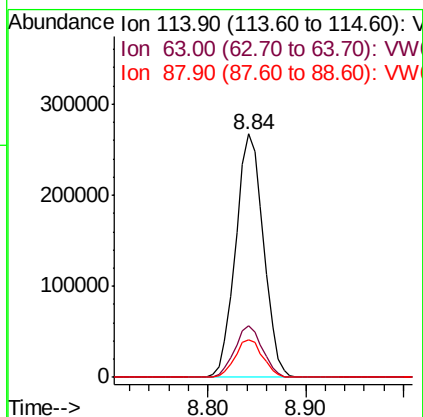
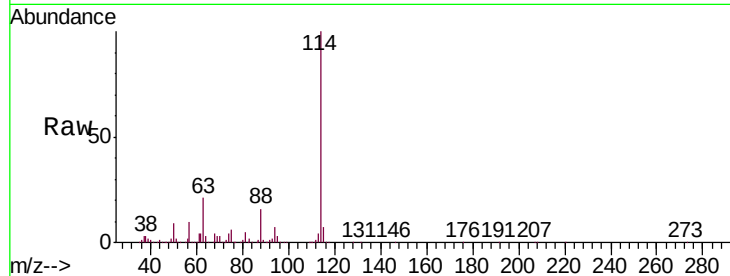




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW008981.D
 Acq: 05 Mar 2019 01:04

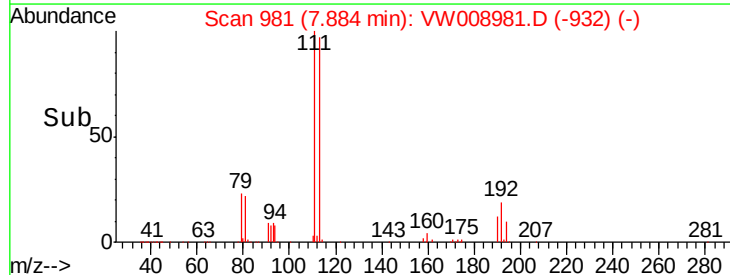
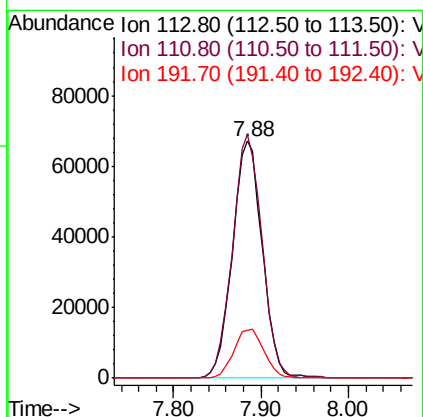
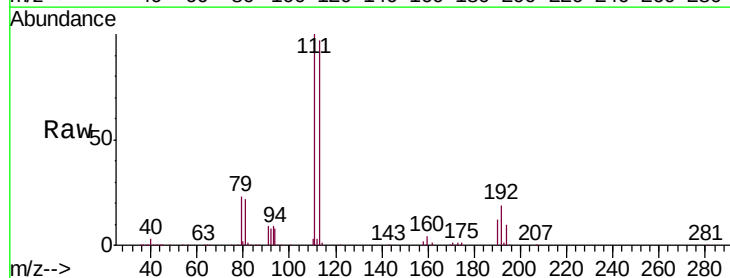
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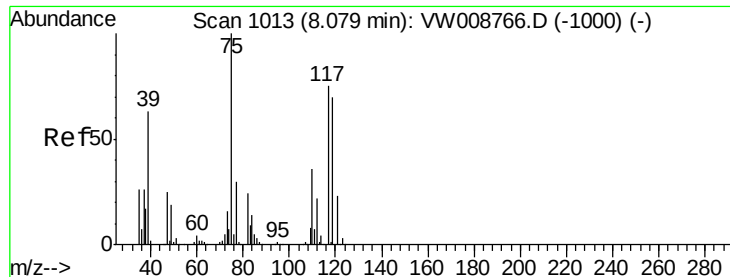
Tgt Ion:114 Resp: 527594
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 40.8
 88 15.5 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 50.174 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW008981.D
 Acq: 05 Mar 2019 01:04

Tgt Ion:113 Resp: 158938
 Ion Ratio Lower Upper
 113 100
 111 102.2 81.9 122.9
 192 20.9 17.1 25.7





#36

1,1-Dichloropropene

Concen: 5.124 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW008981.D

Acq: 05 Mar 2019 01:04

Instrument :

MSVOA_W

ClientSampleId :

JC-03-030119-I

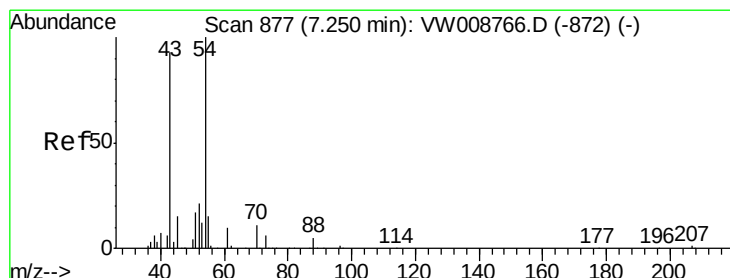
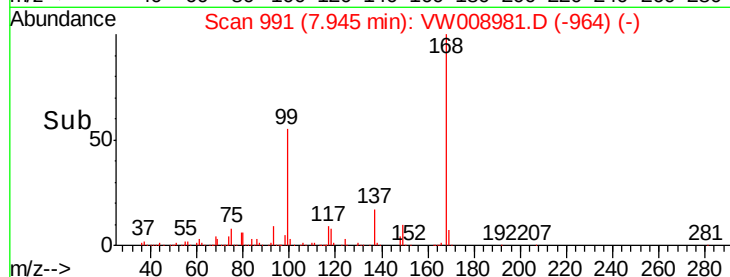
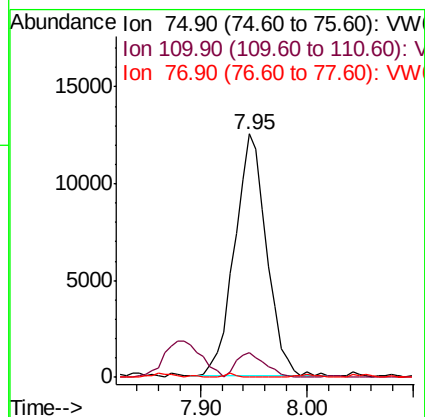
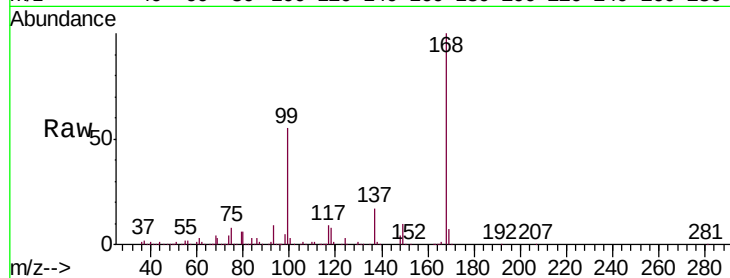
Tgt Ion: 75 Resp: 26316

Ion Ratio Lower Upper

75 100

110 9.2 17.5 52.6#

77 0.5 24.5 36.7#



#37

Ethyl Acetate

Concen: 3.787 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.09 min

Lab File: VW008981.D

Acq: 05 Mar 2019 01:04

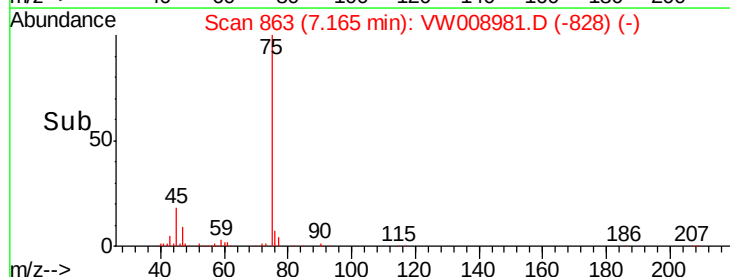
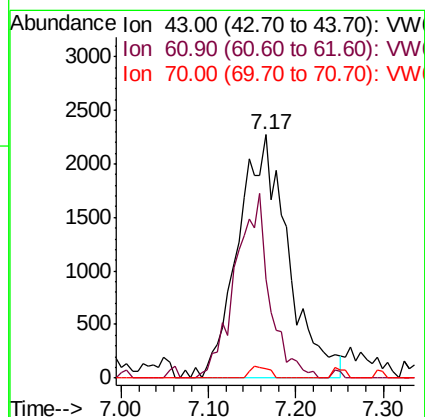
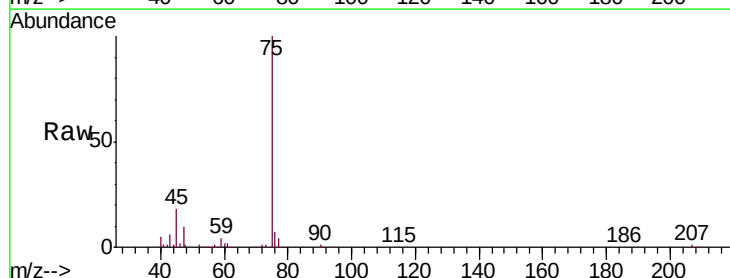
Tgt Ion: 43 Resp: 9044

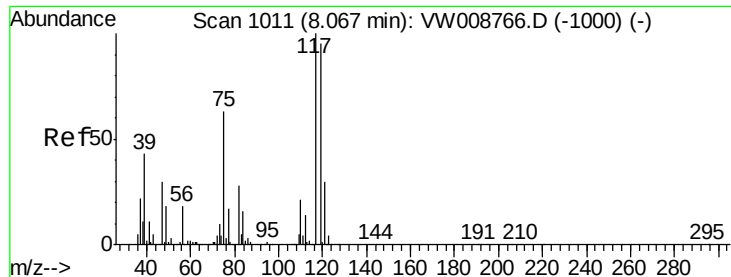
Ion Ratio Lower Upper

43 100

61 51.7 9.8 14.8#

70 1.8 8.4 12.6#

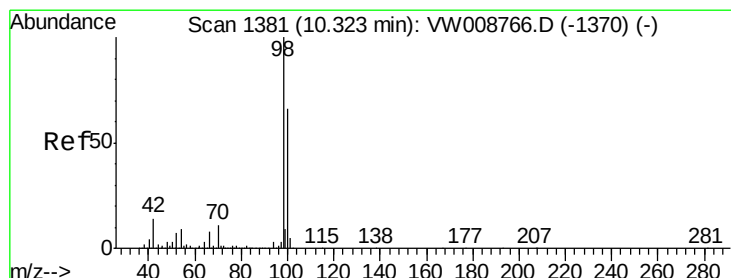
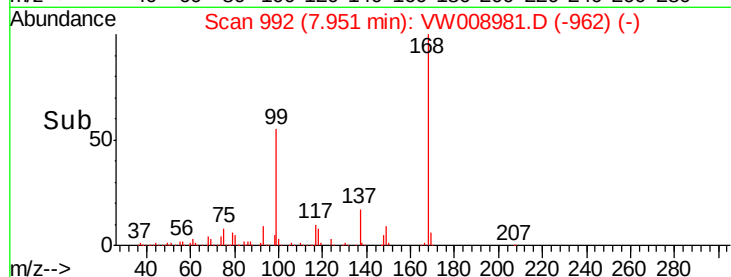
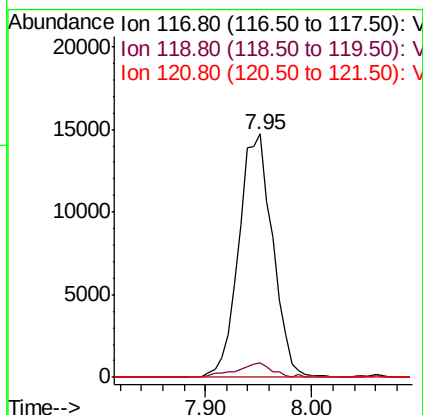
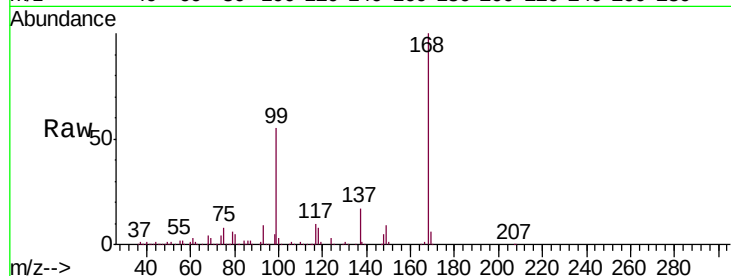




#38
Carbon Tetrachloride
Concen: 6.090 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.12 min
Lab File: VW008981.D
Acq: 05 Mar 2019 01:04

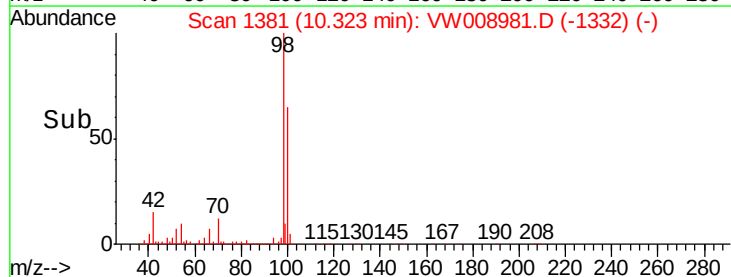
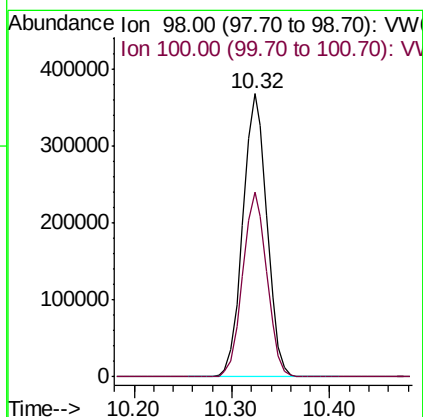
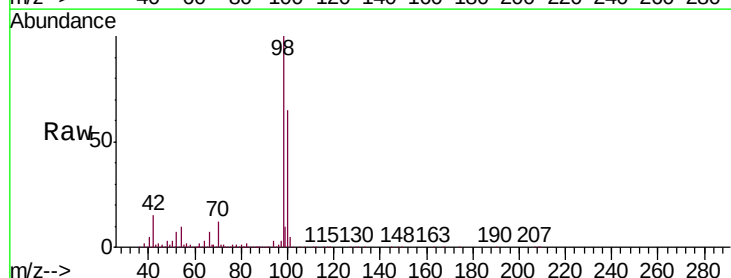
Instrument :
MSVOA_W
ClientSampleId :
JC-03-030119-I

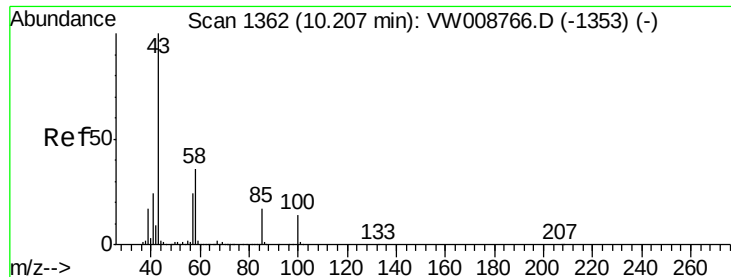
Tgt Ion: 117 Resp: 32987
Ion Ratio Lower Upper
117 100
119 5.8 76.1 114.1#
121 0.0 24.0 36.0#



#50
Toluene-d8
Concen: 51.475 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW008981.D
Acq: 05 Mar 2019 01:04

Tgt Ion: 98 Resp: 629454
Ion Ratio Lower Upper
98 100
100 65.4 52.4 78.6

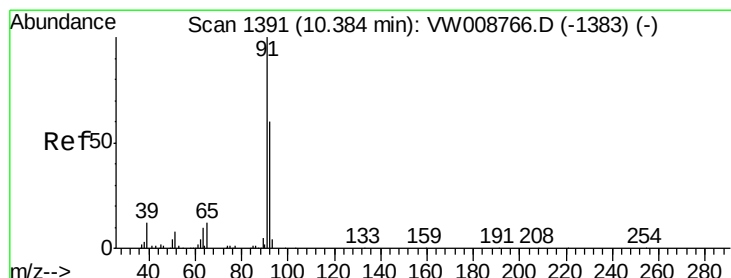
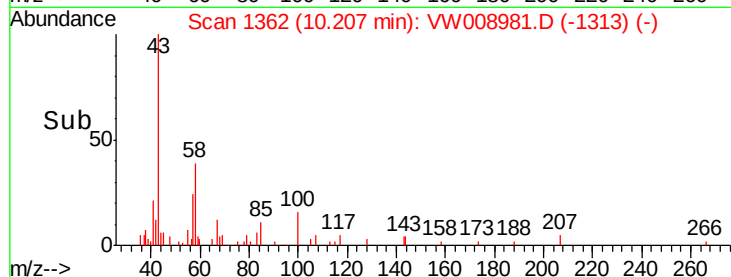
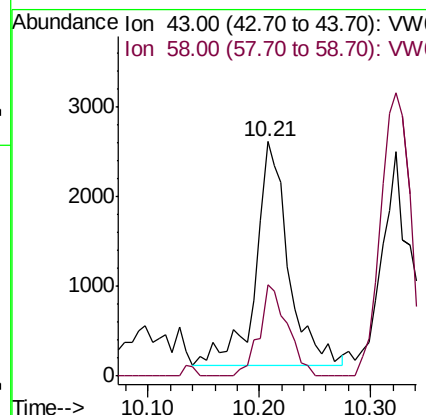
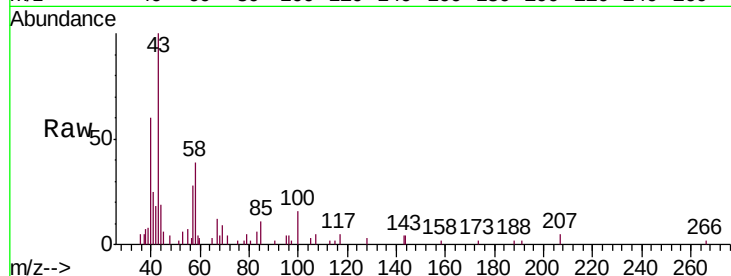




#51
4-Methyl-2-Pentanone
Concen: 2.130 ug/l
RT: 10.21 min Scan# 1362
Delta R.T. 0.00 min
Lab File: VW008981.D
Acq: 05 Mar 2019 01:04

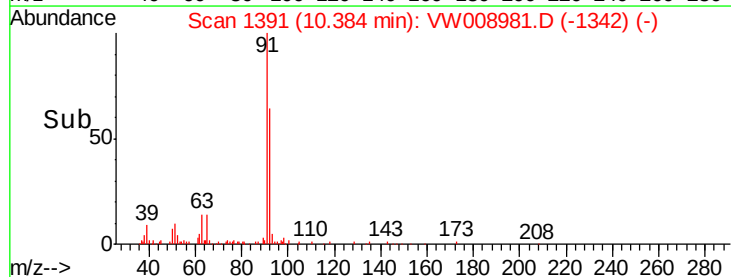
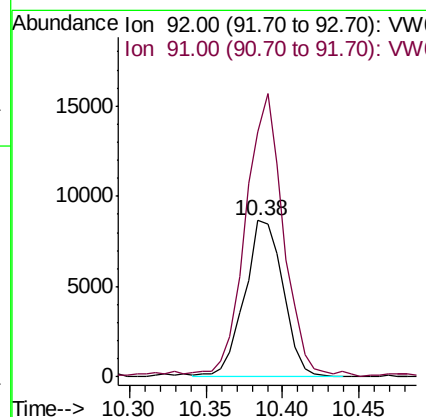
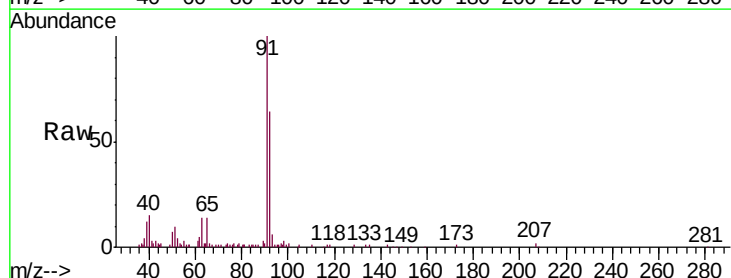
Instrument :
MSVOA_W
ClientSampleId :
JC-03-030119-I

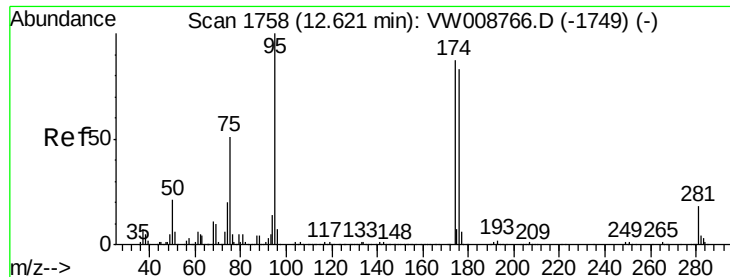
Tgt Ion: 43 Resp: 5155
Ion Ratio Lower Upper
43 100
58 34.7 29.1 43.7



#52
Toluene
Concen: 1.599 ug/l
RT: 10.38 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VW008981.D
Acq: 05 Mar 2019 01:04

Tgt Ion: 92 Resp: 15218
Ion Ratio Lower Upper
92 100
91 176.0 136.9 205.3





#62

4-Bromofluorobenzene

Concen: 45.317 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008981.D

Acq: 05 Mar 2019 01:04

Instrument :

MSVOA_W

ClientSampleId :

JC-03-030119-I

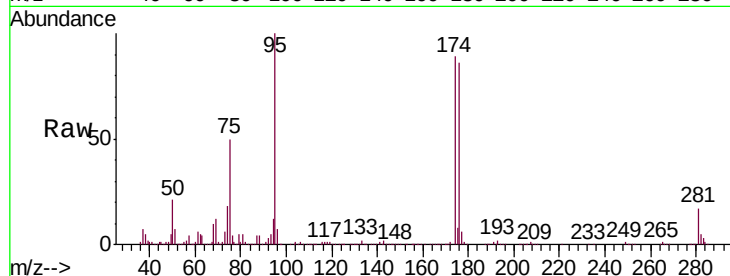
Tgt Ion: 95 Resp: 216974

Ion Ratio Lower Upper

95 100

174 86.7 0.0 169.2

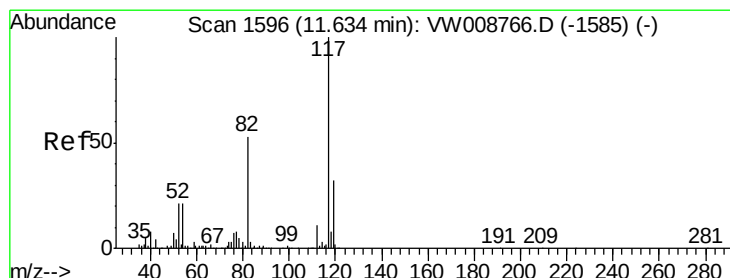
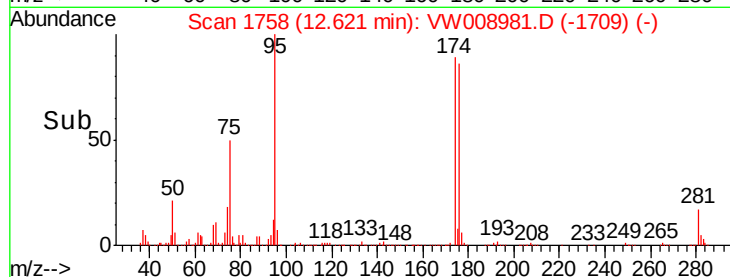
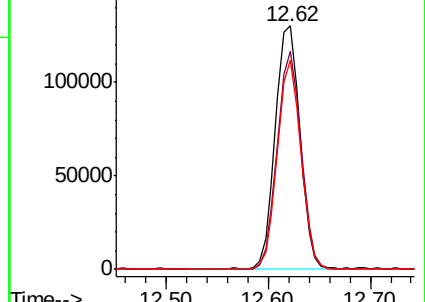
176 81.9 0.0 163.6



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW008981.D

Acq: 05 Mar 2019 01:04

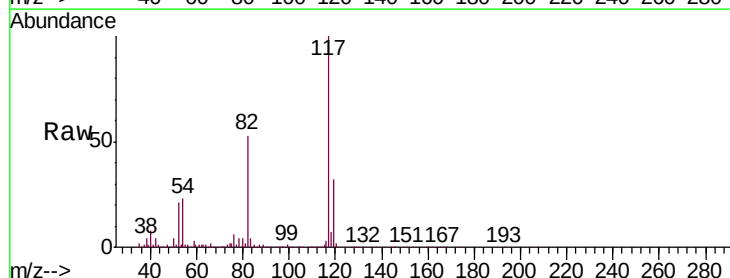
Tgt Ion: 117 Resp: 470877

Ion Ratio Lower Upper

117 100

82 53.4 42.2 63.4

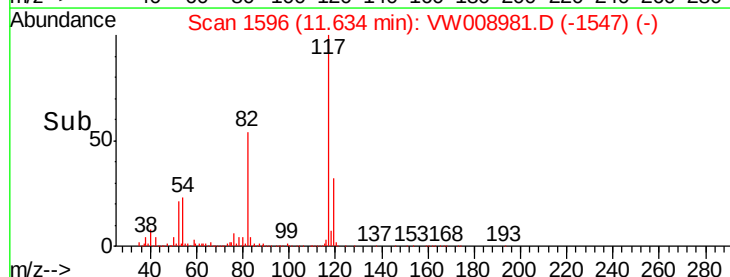
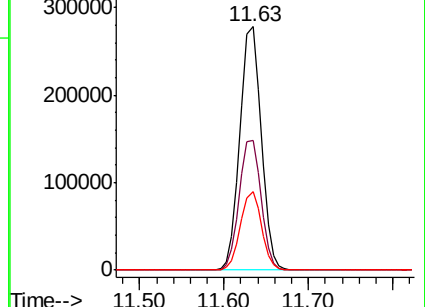
119 32.2 25.9 38.9

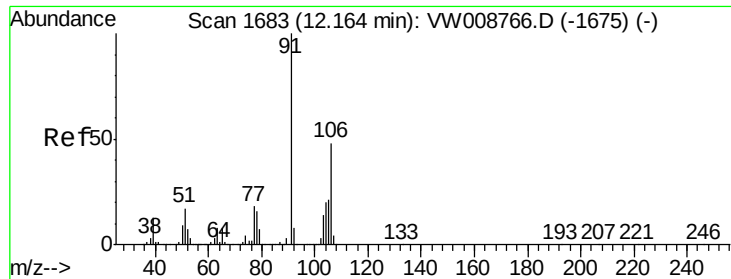


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW

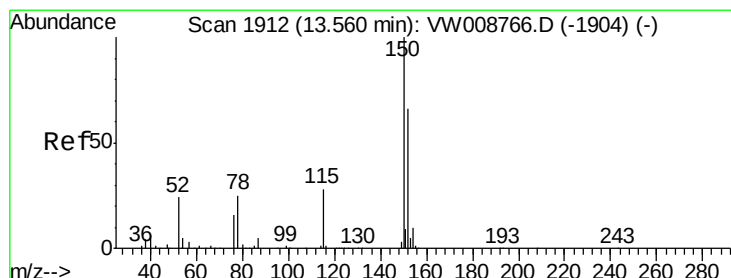
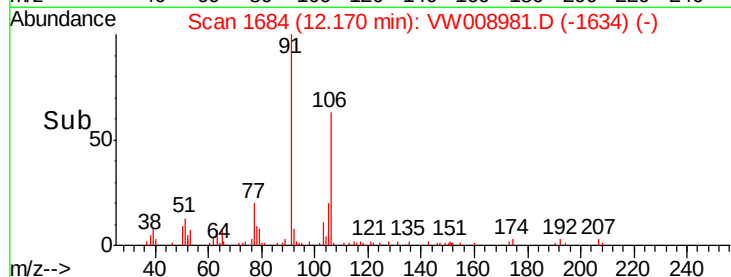
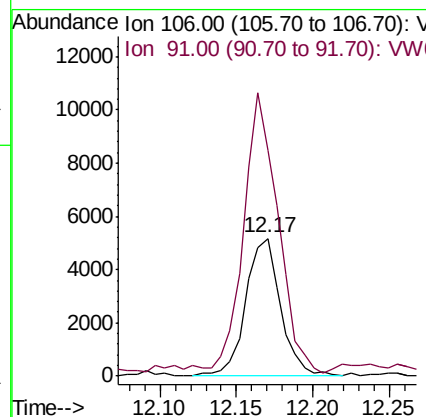
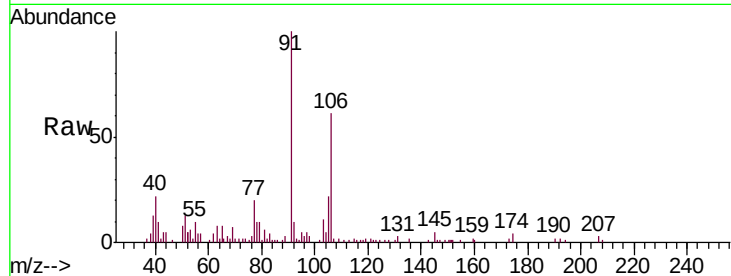




#69
o-Xylene
Concen: 1.235 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. 0.01 min
Lab File: VW008981.D
Acq: 05 Mar 2019 01:04

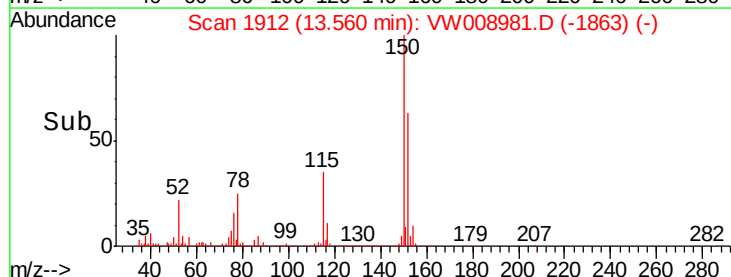
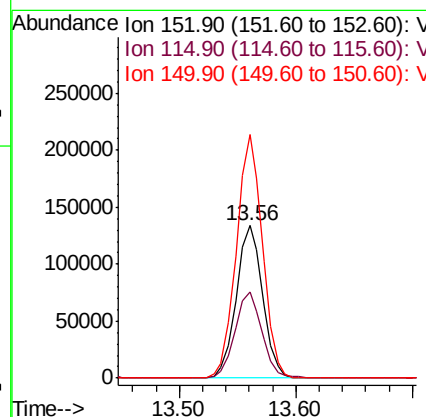
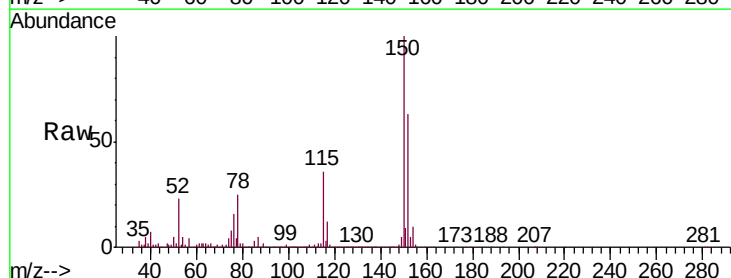
Instrument :
MSVOA_W
ClientSampleId :
JC-03-030119-I

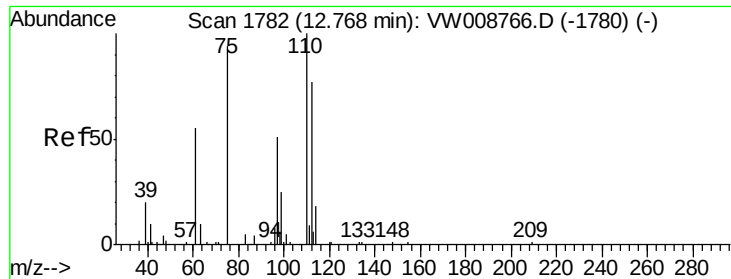
Tgt Ion:106 Resp: 8196
Ion Ratio Lower Upper
106 100
91 199.6 106.2 318.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW008981.D
Acq: 05 Mar 2019 01:04

Tgt Ion:152 Resp: 210764
Ion Ratio Lower Upper
152 100
115 57.5 28.6 85.8
150 157.3 0.0 348.0

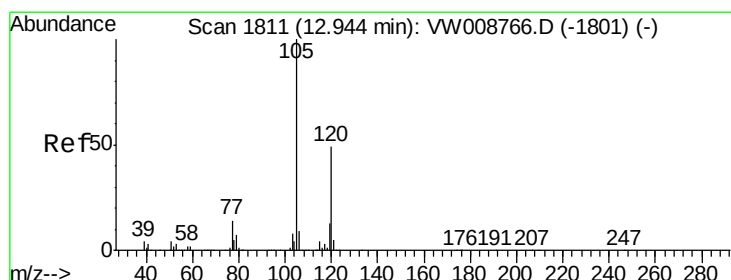
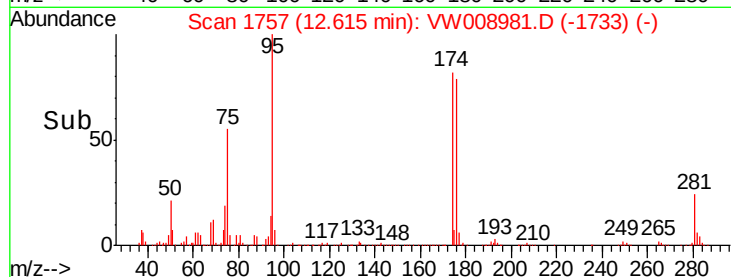
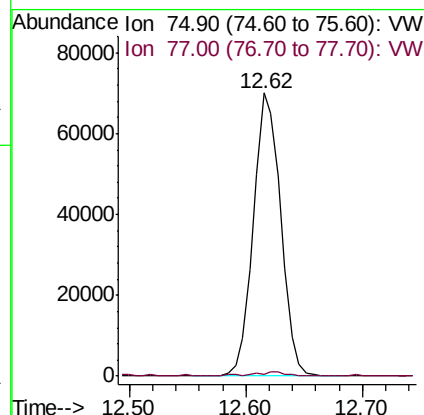
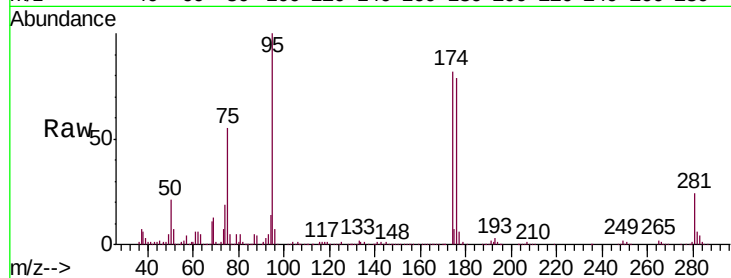




#76
 1,2,3-Trichloropropane
 Concen: 66.194 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW008981.D
 Acq: 05 Mar 2019 01:04

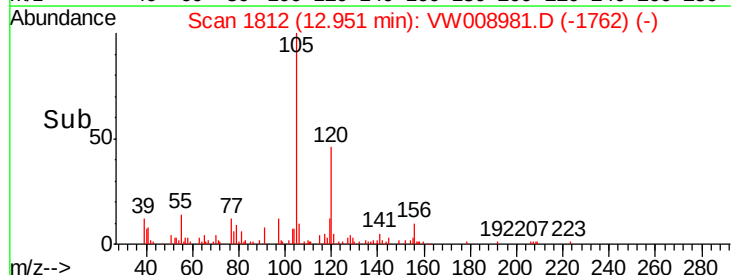
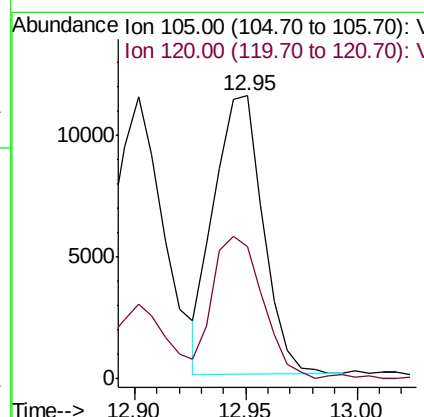
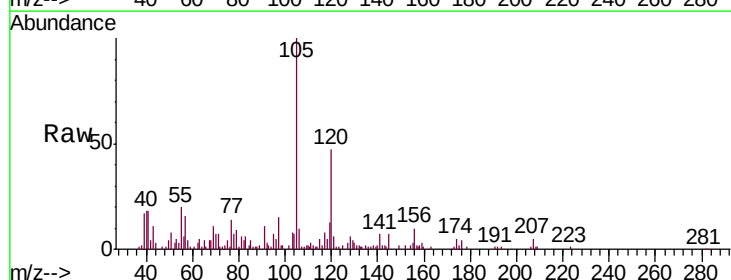
Instrument :
 MSVOA_W
 ClientSampleId :
 JC-03-030119-I

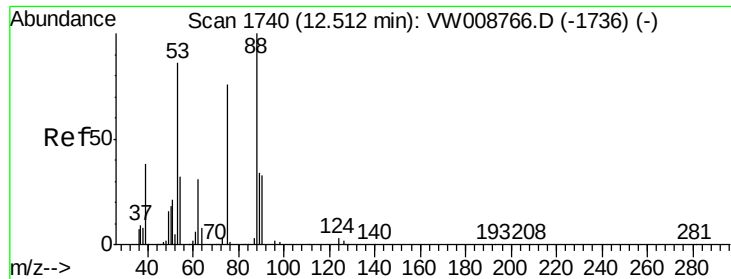
Tgt Ion: 75 Resp: 115187
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 1.389 ug/l
 RT: 12.95 min Scan# 1812
 Delta R.T. 0.01 min
 Lab File: VW008981.D
 Acq: 05 Mar 2019 01:04

Tgt Ion: 105 Resp: 17441
 Ion Ratio Lower Upper
 105 100
 120 52.4 24.8 74.4





#81

trans-1,4-Dichloro-2-butene

Concen: 160.923 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW008981.D

Acq: 05 Mar 2019 01:04

Instrument :

MSVOA_W

ClientSampleId :

JC-03-030119-I

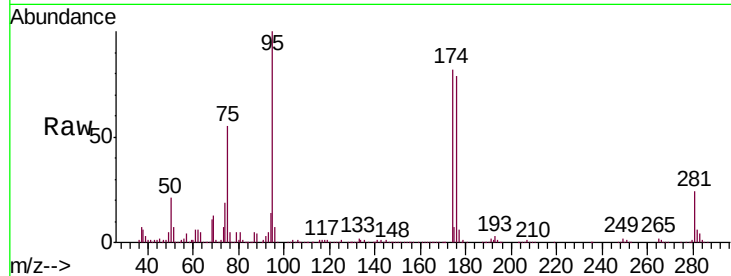
Tgt Ion: 75 Resp: 115187

Ion Ratio Lower Upper

75 100

53 0.1 88.2 132.2#

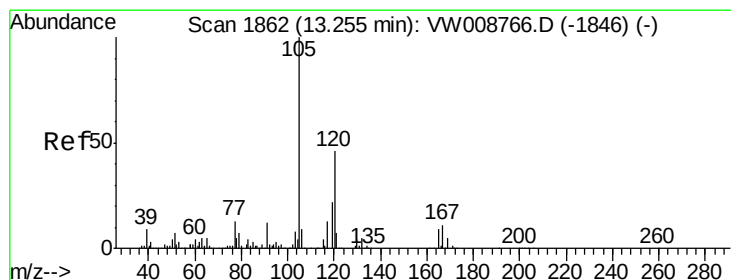
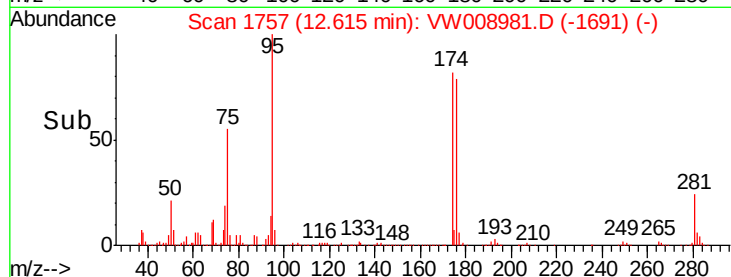
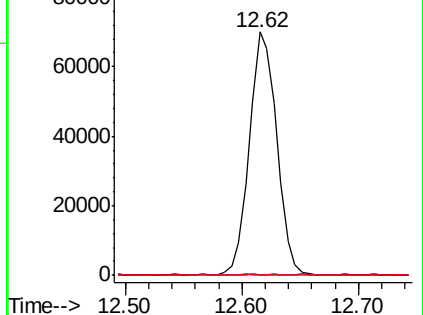
89 0.2 39.5 59.3#



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: 1.701 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. 0.00 min

Lab File: VW008981.D

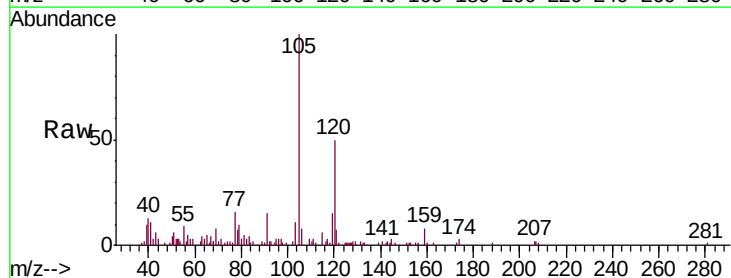
Acq: 05 Mar 2019 01:04

Tgt Ion: 105 Resp: 22110

Ion Ratio Lower Upper

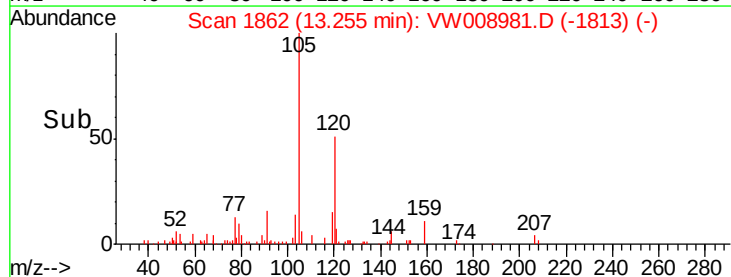
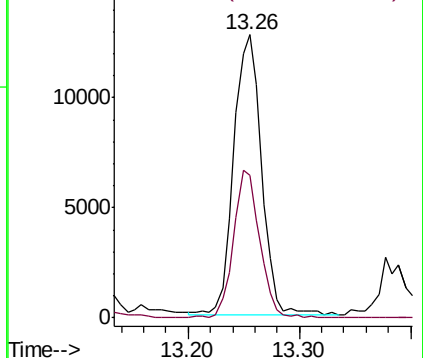
105 100

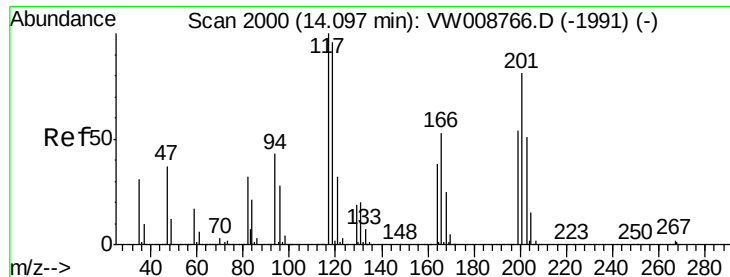
120 49.3 22.8 68.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#90

Hexachloroethane

Concen: 2.245 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. 0.01 min

Lab File: VW008981.D

Acq: 05 Mar 2019 01:04

Instrument :

MSVOA_W

ClientSampleId :

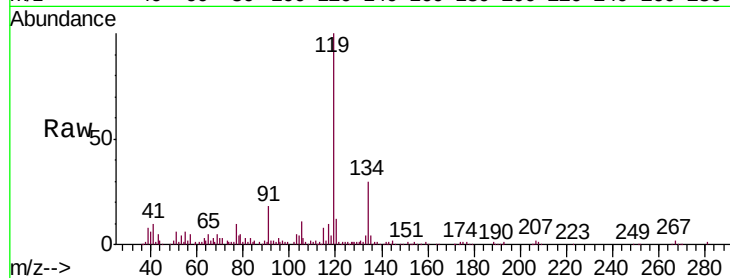
JC-03-030119-I

Tgt Ion:117 Resp: 5259

Ion Ratio Lower Upper

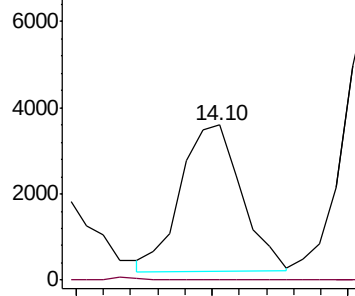
117 100

201 0.0 40.3 120.8#

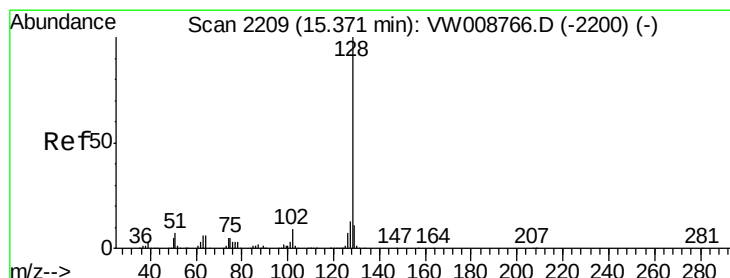
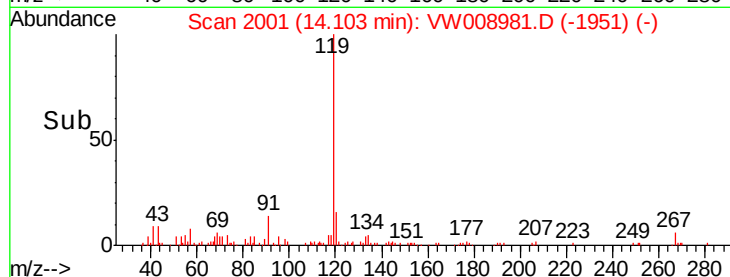


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



Time-->



#95

Naphthalene

Concen: 1.710 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW008981.D

Acq: 05 Mar 2019 01:04

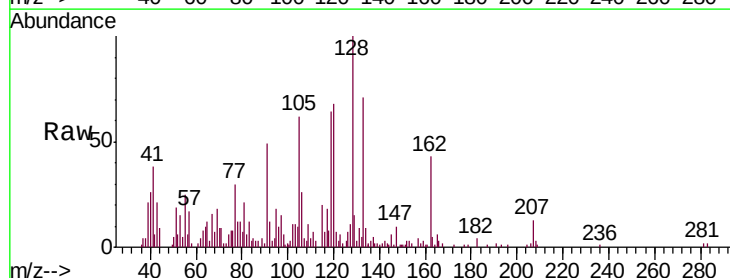
Tgt Ion:128 Resp: 13241

Ion Ratio Lower Upper

128 100

127 6.2 10.8 16.2#

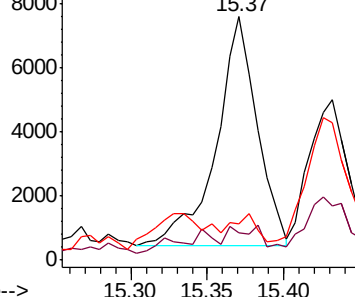
129 6.8 8.7 13.1#



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



Time-->

