

Data File : VW008975.D
Acq On : 04 Mar 2019 22:23
Operator : SY/VA
Sample : K1688-05
Misc : 6.06G/5ML/MSVOA_W/SOIL
ALS Vial : 13 Sample Multiplier: 1

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

Quant Time: Mar 05 06:31:16 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	330591	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	519927	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	465518	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	209285	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	186566	60.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.34%	
35) Dibromofluoromethane	7.88	113	157001	50.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.58%	
50) Toluene-d8	10.32	98	619755	51.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.86%	
62) 4-Bromofluorobenzene	12.62	95	213519	45.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.50%	

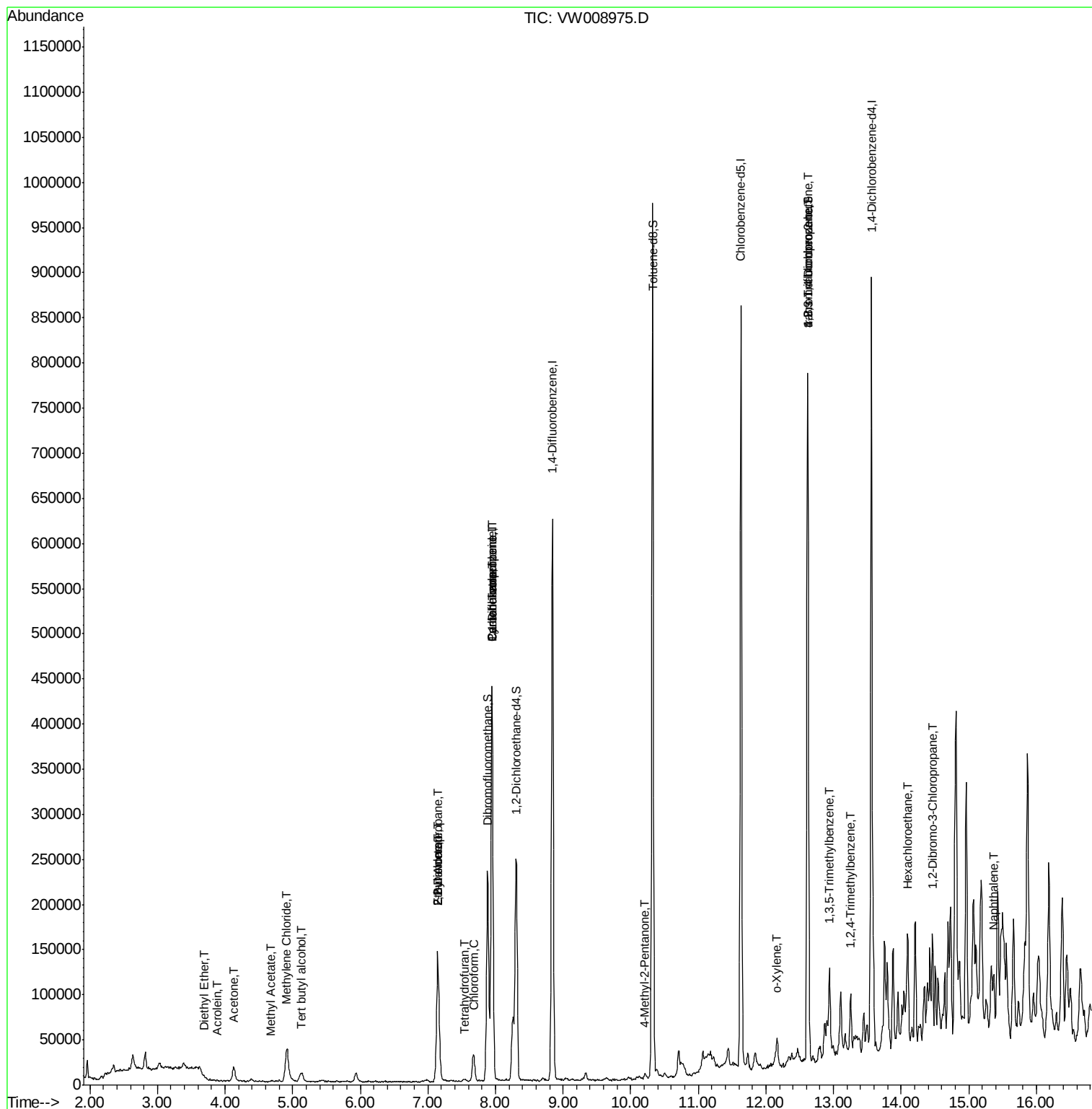
Target Compounds						Qvalue
8) Diethyl Ether	3.68	74	1724	1.009	ug/l	97
11) Tert butyl alcohol	5.12	59	10212	36.995	ug/l #	72
13) Acrolein	3.88	56	56	19.957	ug/l #	14
16) Acetone	4.13	43	28674	39.897	ug/l	93
18) Methyl Acetate	4.67	43	2534	1.486	ug/l #	84
20) Methylene Chloride	4.91	84	27588	2.988	ug/l	89
25) 2-Butanone	7.15	43	10430	10.380	ug/l #	73
26) 2,2-Dichloropropane	7.15	77	9555	1.822	ug/l #	54
29) Tetrahydrofuran	7.55	42	2464	3.848	ug/l #	86
30) Chloroform	7.68	83	24559	4.145	ug/l	95
31) Cyclohexane	7.95	56	9697	1.659	ug/l #	46
36) 1,1-Dichloropropene	7.95	75	25724	5.083	ug/l #	49
37) Ethyl Acetate	7.15	43	10430	4.432	ug/l #	22
38) Carbon Tetrachloride	7.95	117	32448	6.079	ug/l #	17
51) 4-Methyl-2-Pentanone	10.21	43	3549	1.488	ug/l	93
69) o-Xylene	12.16	106	7778	1.185	ug/l	90
76) 1,2,3-Trichloropropane	12.62	75	113816	65.869	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.94	105	30377	2.436	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.62	75	113816	160.131	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.26	105	34228	2.652	ug/l	92
90) Hexachloroethane	14.10	117	5636	2.423	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.46	75	483	1.139	ug/l #	3
95) Naphthalene	15.37	128	38366	4.990	ug/l	96

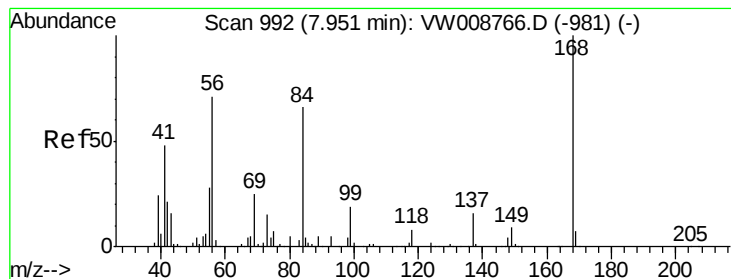
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW008975.D

Acq: 04 Mar 2019 22:23

Instrument :

MSVOA_W

ClientSampleId :

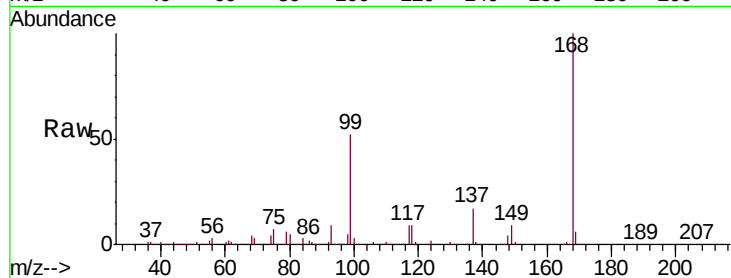
JC-03-030119-C

Tgt Ion:168 Resp: 330591

Ion Ratio Lower Upper

168 100

99 51.9 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

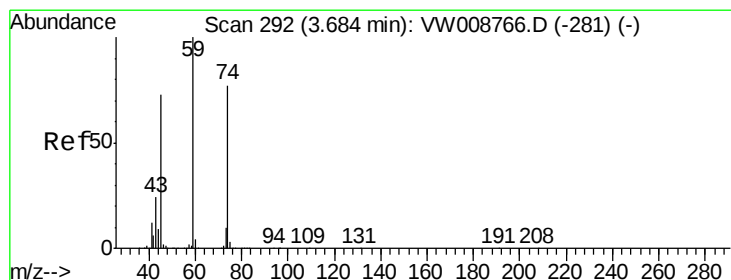
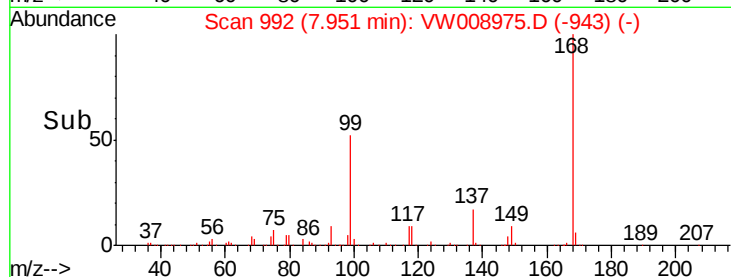
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 1.009 ug/l

RT: 3.68 min Scan# 292

Delta R.T. -0.00 min

Lab File: VW008975.D

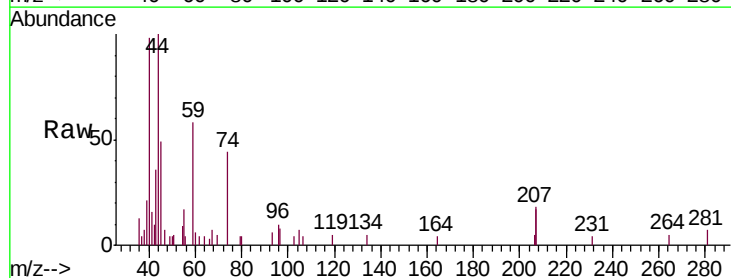
Acq: 04 Mar 2019 22:23

Tgt Ion: 74 Resp: 1724

Ion Ratio Lower Upper

74 100

45 97.3 50.2 150.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

1200

1000

800

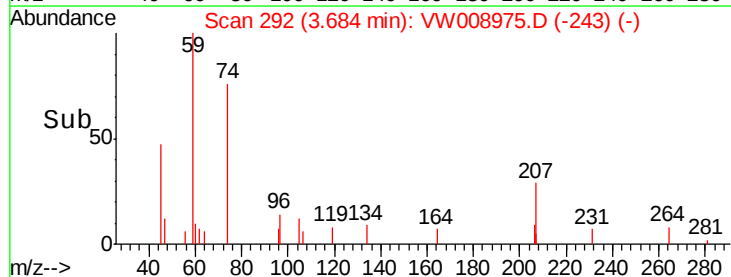
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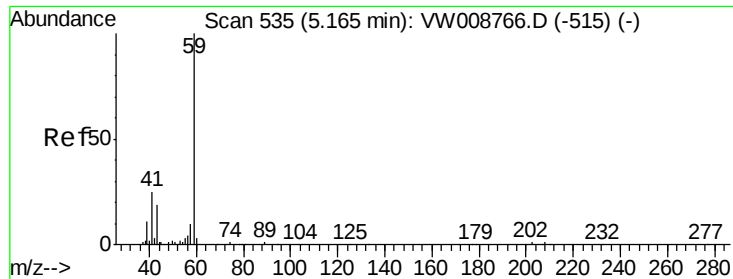
400

200

0

Time-->

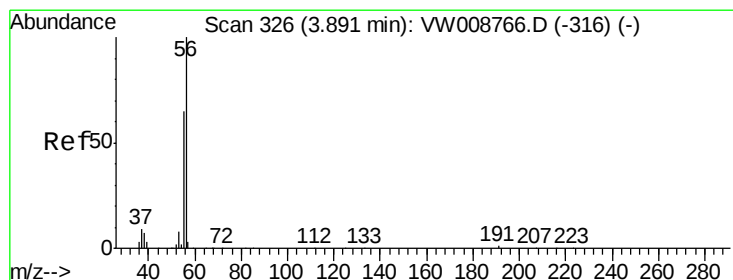
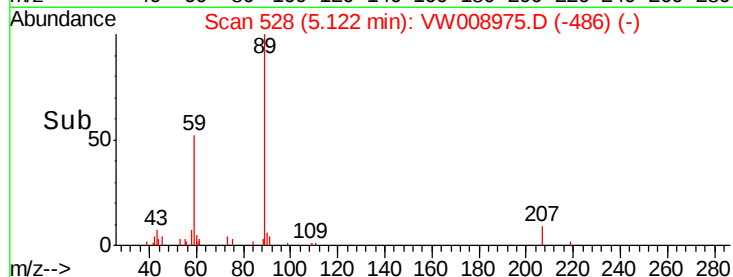
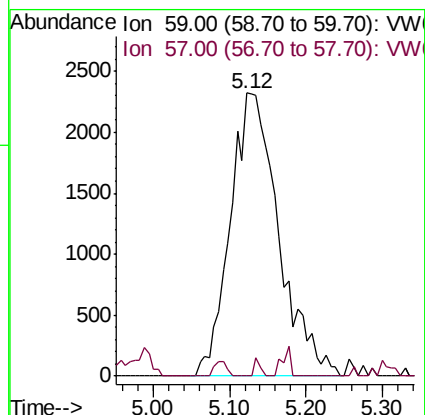
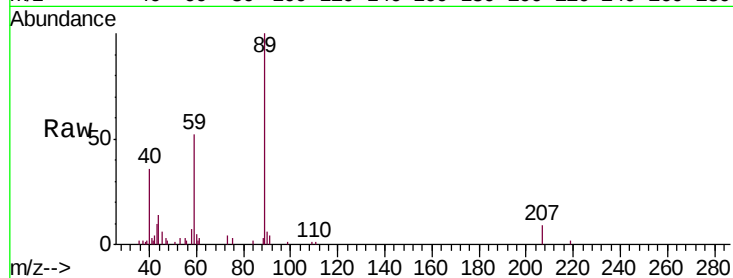




#11
Tert butyl alcohol
Concen: 36.995 ug/l
RT: 5.12 min Scan# 528
Delta R.T. -0.04 min
Lab File: VW008975.D
Acq: 04 Mar 2019 22:23

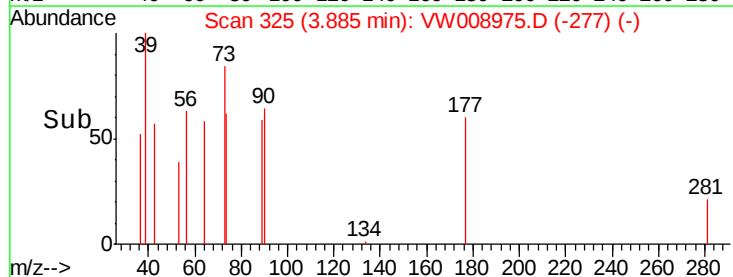
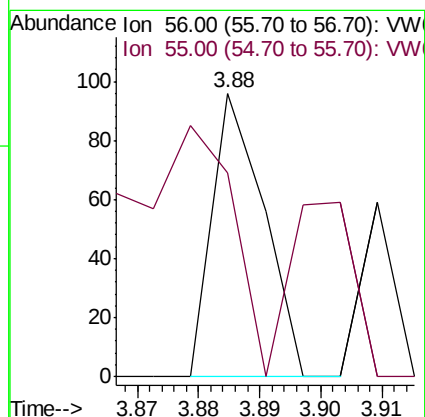
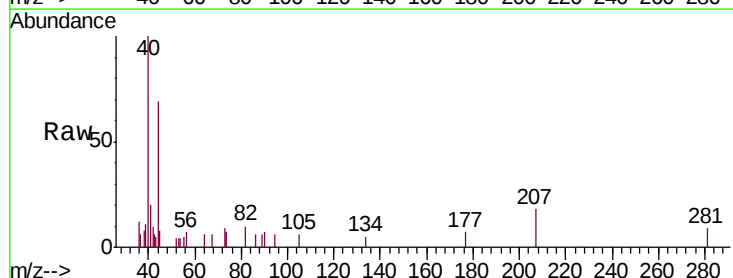
Instrument :
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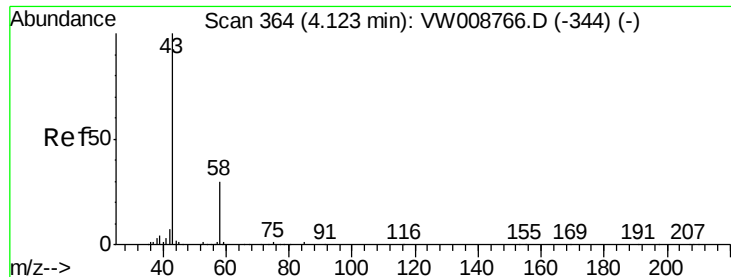
Tgt Ion: 59 Resp: 10212
Ion Ratio Lower Upper
59 100
57 0.8 9.3 13.9#



#13
Acrolein
Concen: 19.957 ug/l
RT: 3.88 min Scan# 325
Delta R.T. -0.01 min
Lab File: VW008975.D
Acq: 04 Mar 2019 22:23

Tgt Ion: 56 Resp: 56
Ion Ratio Lower Upper
56 100
55 0.0 56.9 85.3#

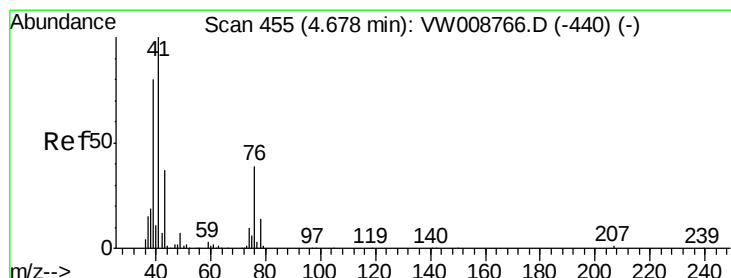
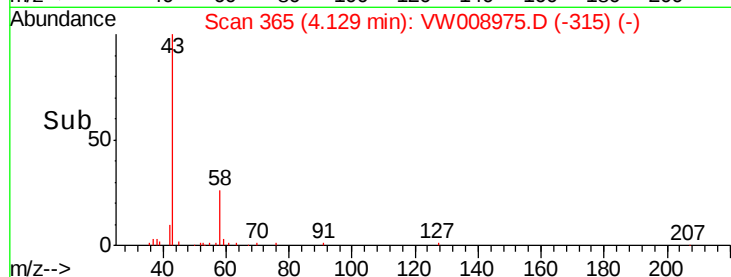
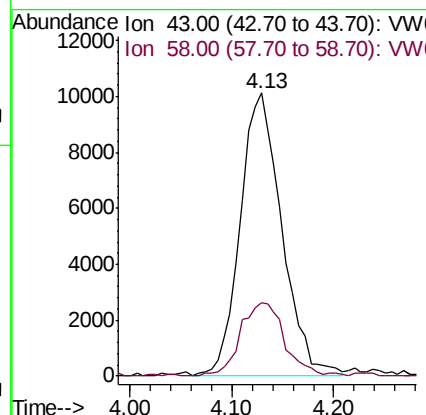
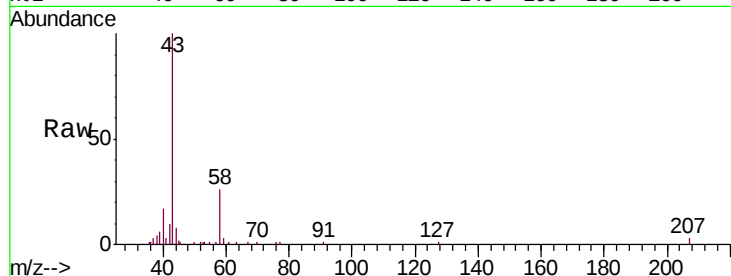




#16
Acetone
Concen: 39.897 ug/l
RT: 4.13 min Scan# 365
Delta R.T. 0.01 min
Lab File: VW008975.D
Acq: 04 Mar 2019 22:23

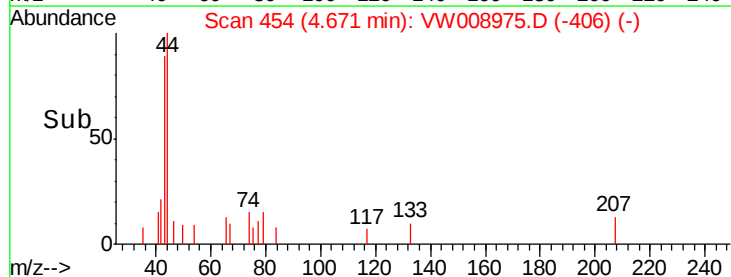
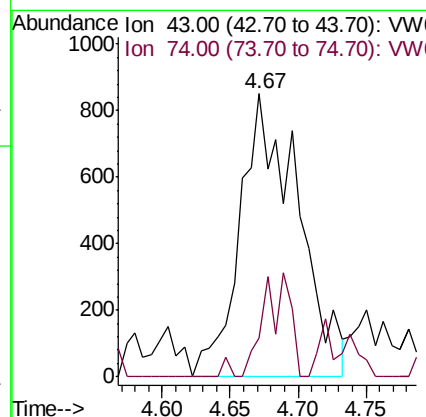
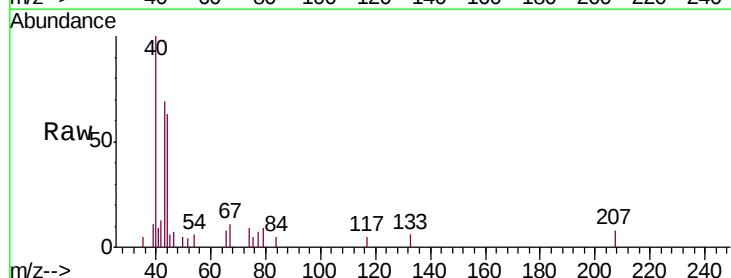
Instrument :
MSVOA_W
ClientSampleId :
JC-03-030119-C

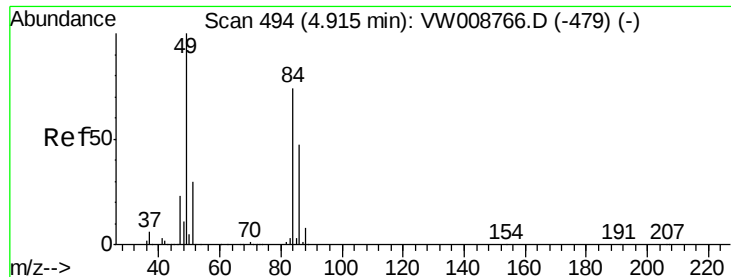
Tgt Ion: 43 Resp: 28674
Ion Ratio Lower Upper
43 100
58 25.9 23.8 35.6



#18
Methyl Acetate
Concen: 1.486 ug/l
RT: 4.67 min Scan# 454
Delta R.T. -0.01 min
Lab File: VW008975.D
Acq: 04 Mar 2019 22:23

Tgt Ion: 43 Resp: 2534
Ion Ratio Lower Upper
43 100
74 16.5 19.4 29.2#





#20

Methylene Chloride

Concen: 2.988 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW008975.D

Acq: 04 Mar 2019 22:23

Instrument :

MSVOA_W

ClientSampleId :

JC-03-030119-C

Tgt Ion: 84 Resp: 27588

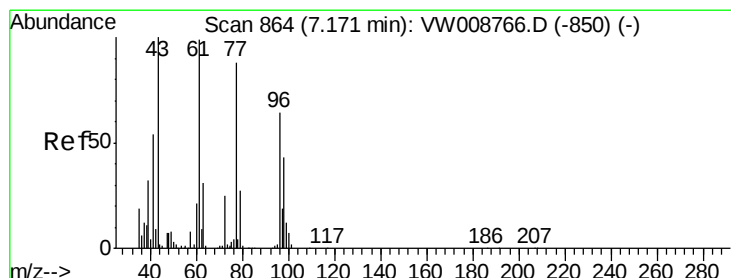
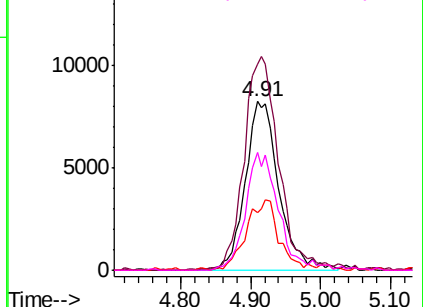
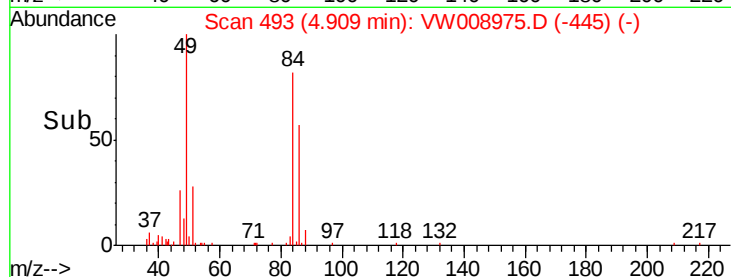
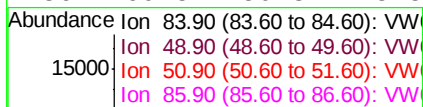
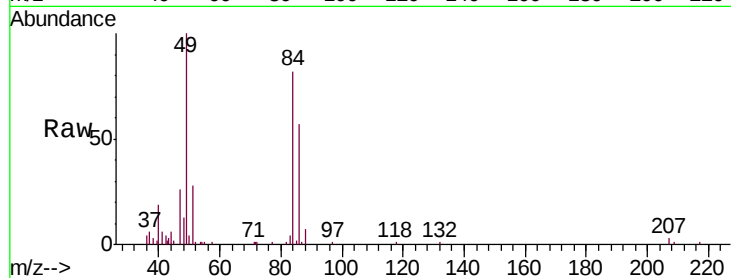
Ion Ratio Lower Upper

84 100

49 121.5 108.2 162.2

51 34.4 32.7 49.1

86 69.5 50.3 75.5



#25

2-Butanone

Concen: 10.380 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW008975.D

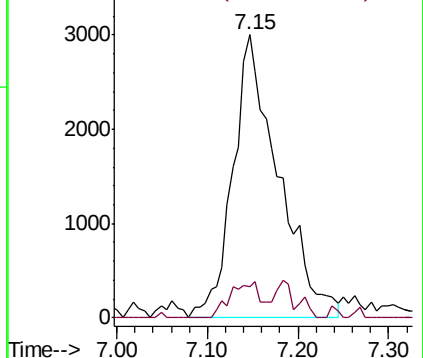
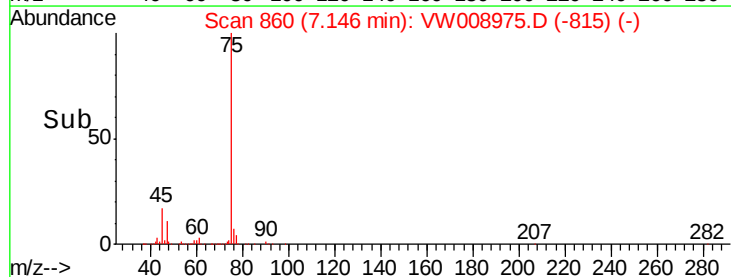
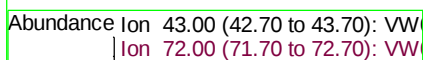
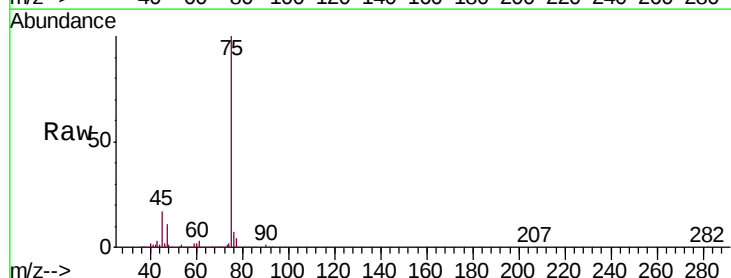
Acq: 04 Mar 2019 22:23

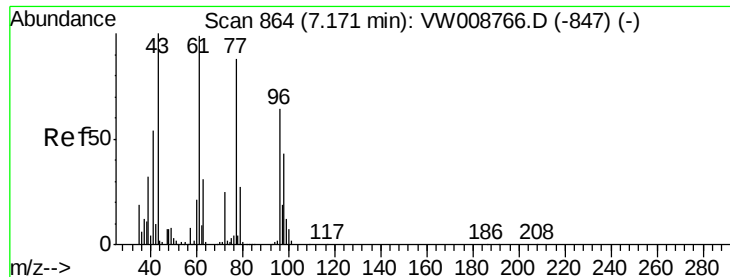
Tgt Ion: 43 Resp: 10430

Ion Ratio Lower Upper

43 100

72 11.1 19.7 29.5#





#26

2,2-Dichloropropane

Concen: 1.822 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW008975.D

Acq: 04 Mar 2019 22:23

Instrument :

MSVOA_W

ClientSampleId :

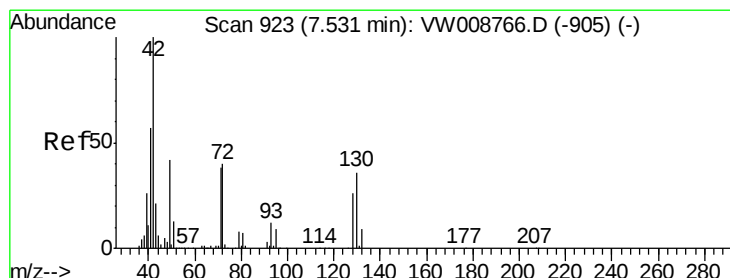
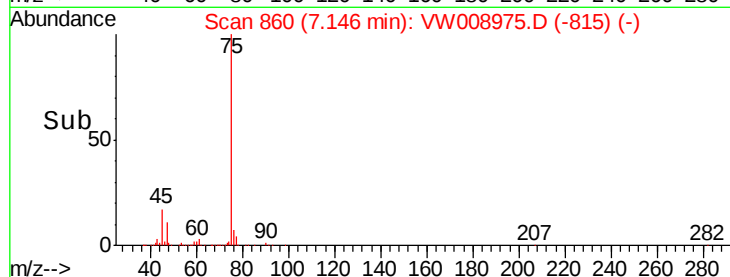
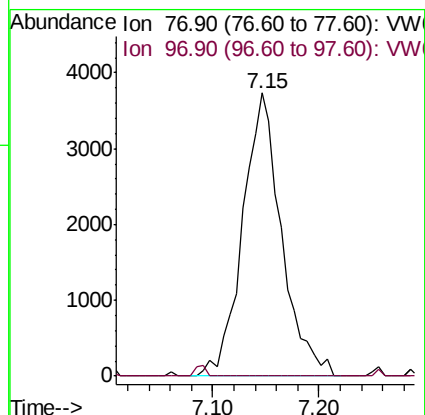
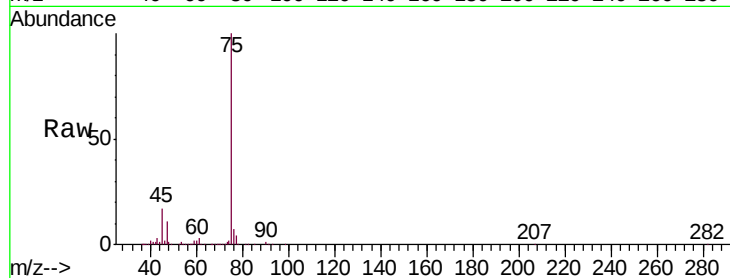
JC-03-030119-C

Tgt Ion: 77 Resp: 9555

Ion Ratio Lower Upper

77 100

97 0.0 11.0 33.0#



#29

Tetrahydrofuran

Concen: 3.848 ug/l

RT: 7.55 min Scan# 926

Delta R.T. 0.02 min

Lab File: VW008975.D

Acq: 04 Mar 2019 22:23

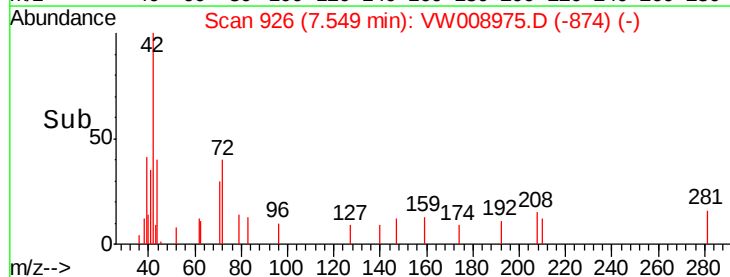
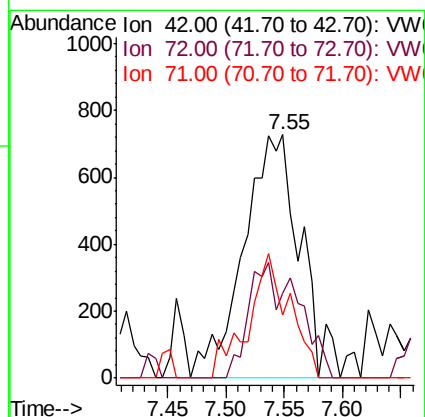
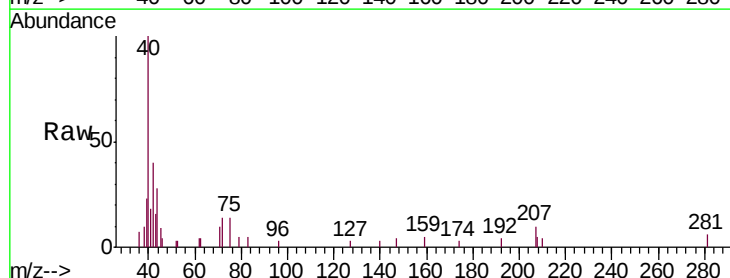
Tgt Ion: 42 Resp: 2464

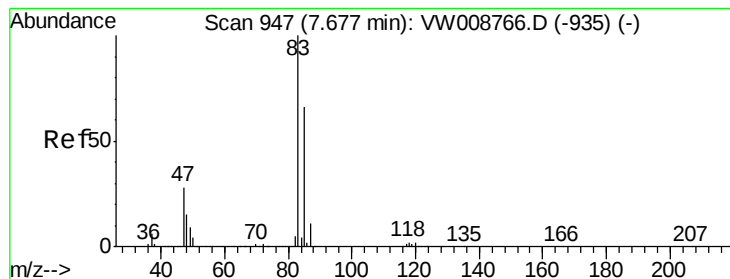
Ion Ratio Lower Upper

42 100

72 26.1 32.7 49.1#

71 37.1 31.3 46.9





#30

Chloroform

Concen: 4.145 ug/l

RT: 7.68 min Scan# 947

Delta R.T. -0.00 min

Lab File: VW008975.D

Acq: 04 Mar 2019 22:23

Instrument :

MSVOA_W

ClientSampleId :

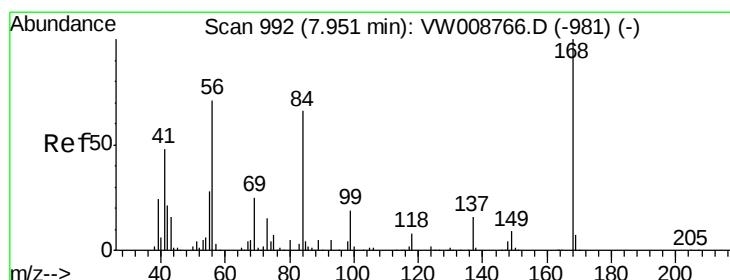
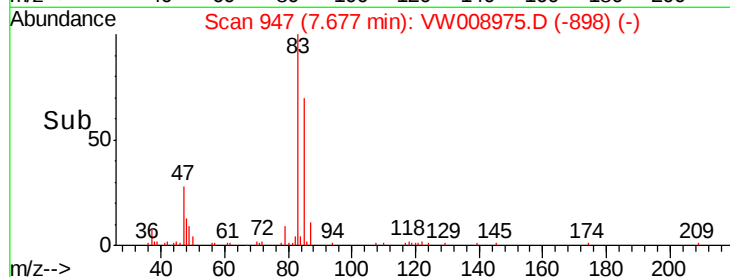
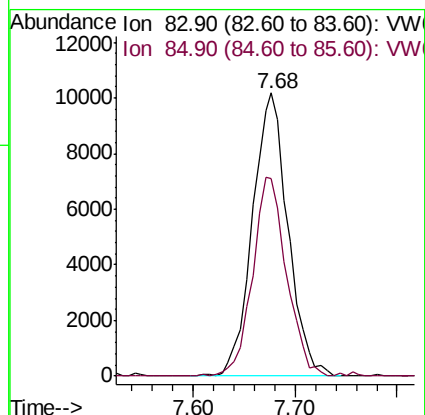
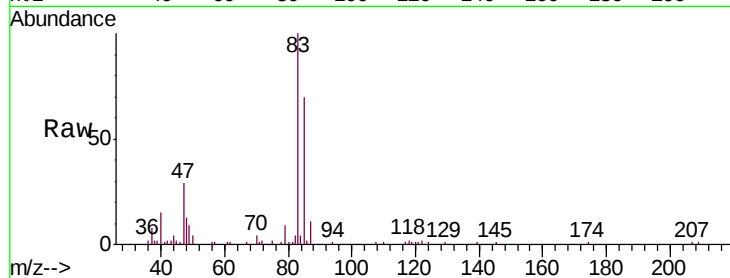
JC-03-030119-C

Tgt Ion: 83 Resp: 24559

Ion Ratio Lower Upper

83 100

85 69.7 52.6 79.0



#31

Cyclohexane

Concen: 1.659 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW008975.D

Acq: 04 Mar 2019 22:23

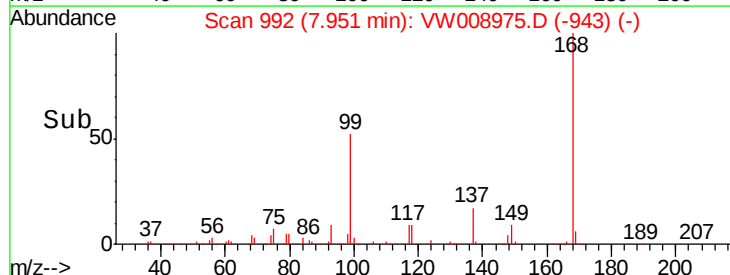
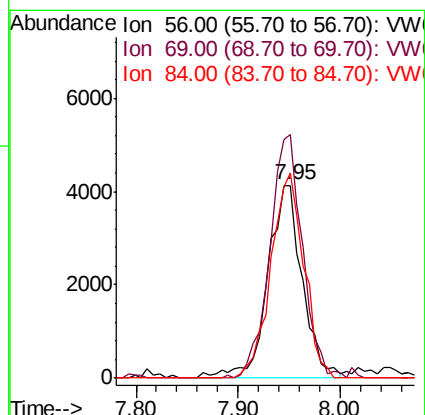
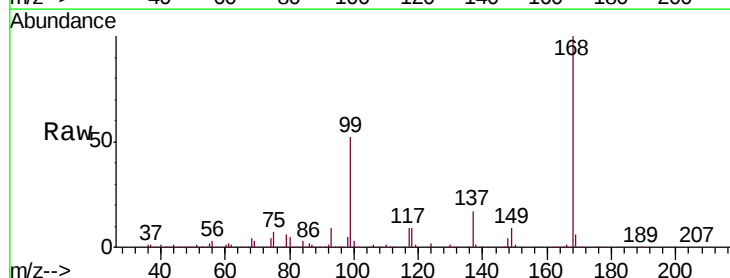
Tgt Ion: 56 Resp: 9697

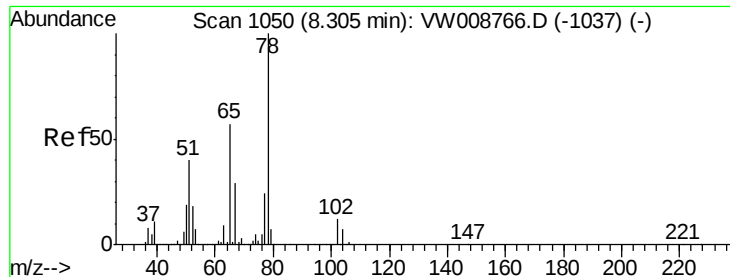
Ion Ratio Lower Upper

56 100

69 126.4 28.2 42.4#

84 106.3 74.1 111.1

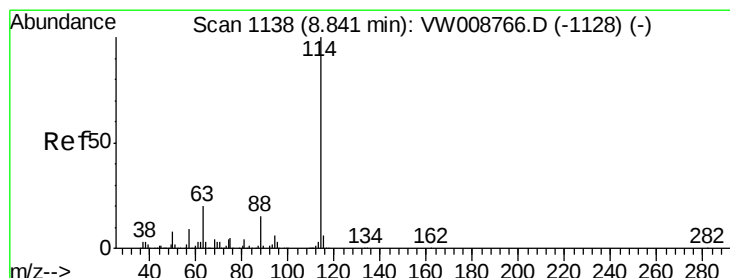
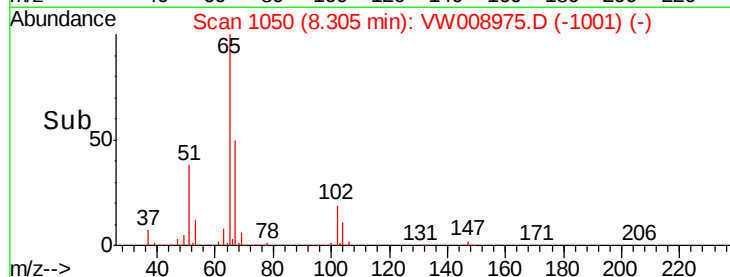
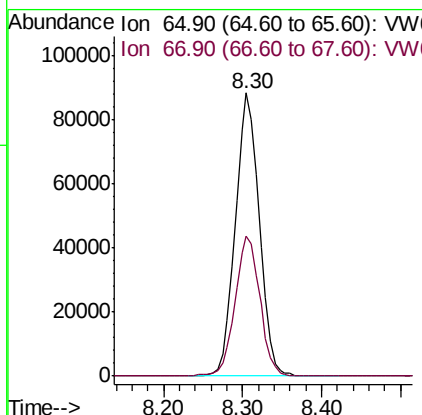
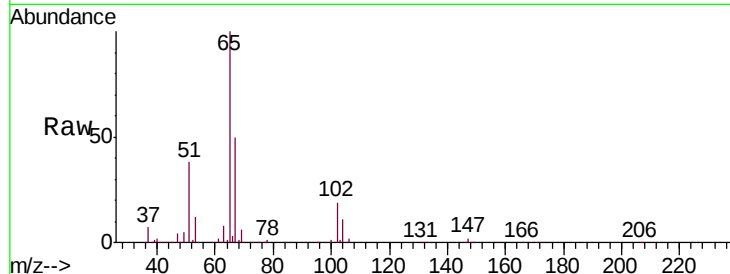




#33
 1,2-Dichloroethane-d4
 Concen: 60.170 ug/l
 RT: 8.30 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW008975.D
 Acq: 04 Mar 2019 22:23

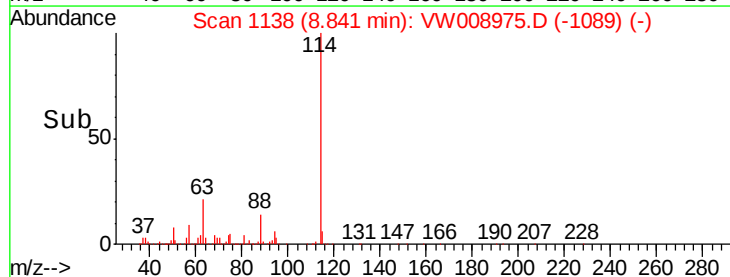
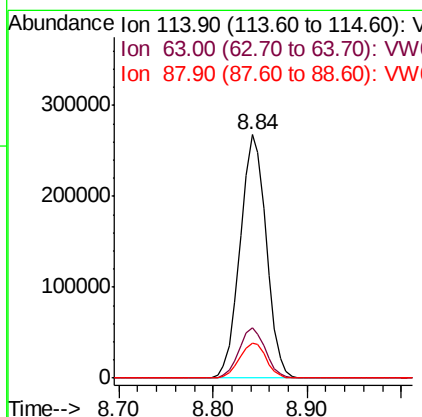
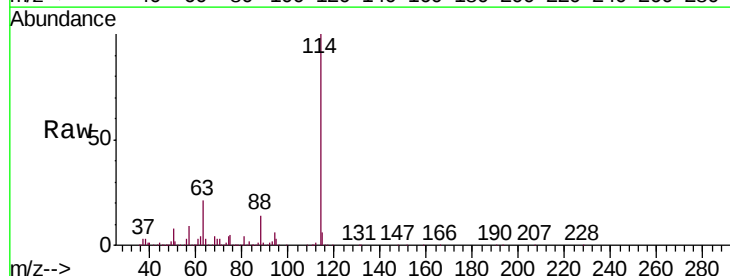
Instrument :
 MSVOA_W
 ClientSampleId :
 JC-03-030119-C

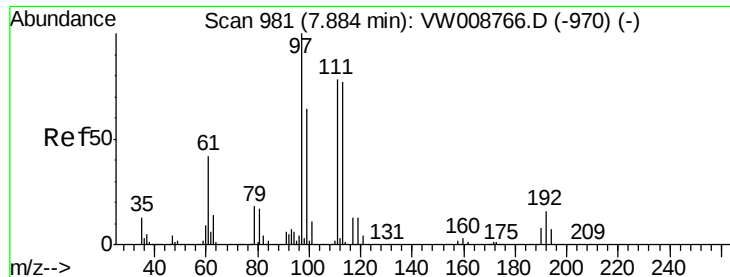
Tgt Ion: 65 Resp: 186566
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW008975.D
 Acq: 04 Mar 2019 22:23

Tgt Ion: 114 Resp: 519927
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 40.8
 88 14.4 0.0 30.4





#35

Dibromofluoromethane

Concen: 50.293 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW008975.D

Acq: 04 Mar 2019 22:23

Instrument :

MSVOA_W

ClientSampleId :

JC-03-030119-C

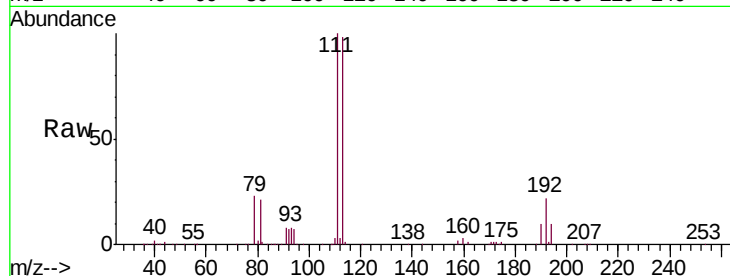
Tgt Ion:113 Resp: 157001

Ion Ratio Lower Upper

113 100

111 102.1 81.9 122.9

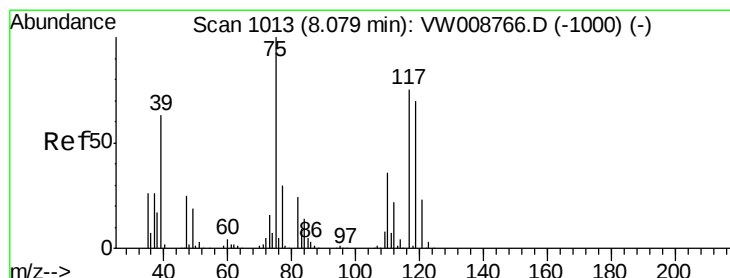
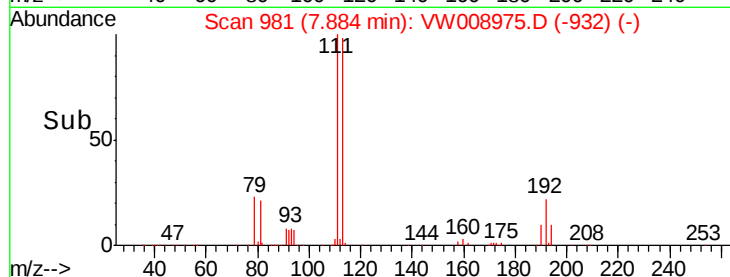
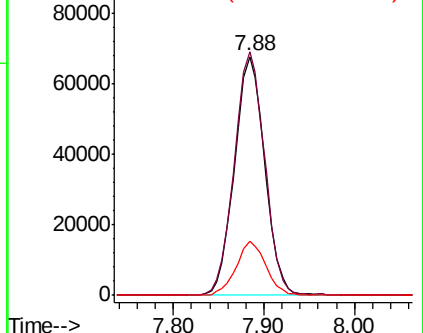
192 22.1 17.1 25.7



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: 5.083 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW008975.D

Acq: 04 Mar 2019 22:23

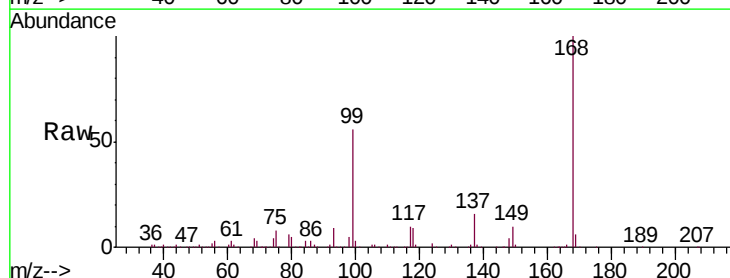
Tgt Ion: 75 Resp: 25724

Ion Ratio Lower Upper

75 100

110 7.6 17.5 52.6#

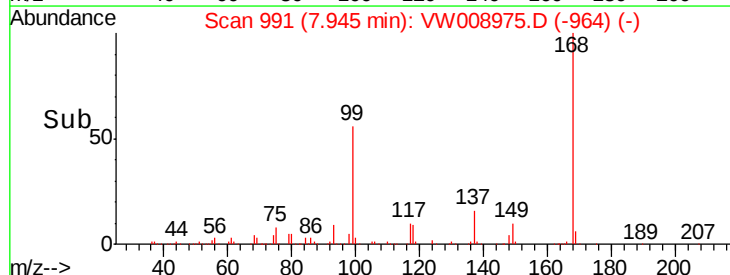
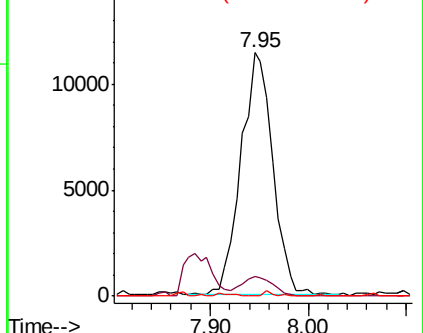
77 0.5 24.5 36.7#

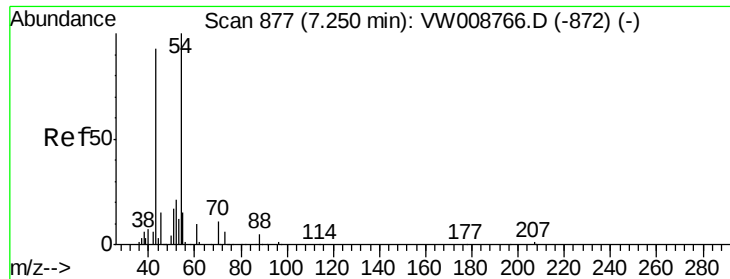


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#37

Ethyl Acetate

Concen: 4.432 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.10 min

Lab File: VW008975.D

Acq: 04 Mar 2019 22:23

Instrument :

MSVOA_W

ClientSampleId :

JC-03-030119-C

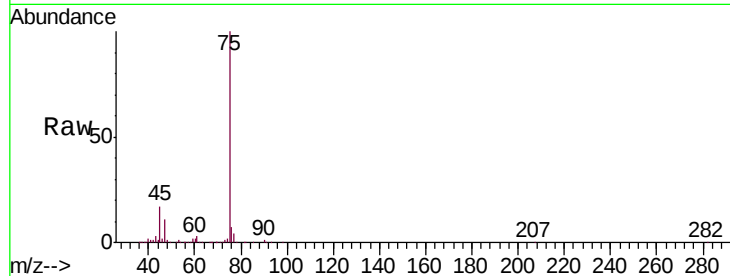
Tgt Ion: 43 Resp: 10430

Ion Ratio Lower Upper

43 100

61 60.6 9.8 14.8#

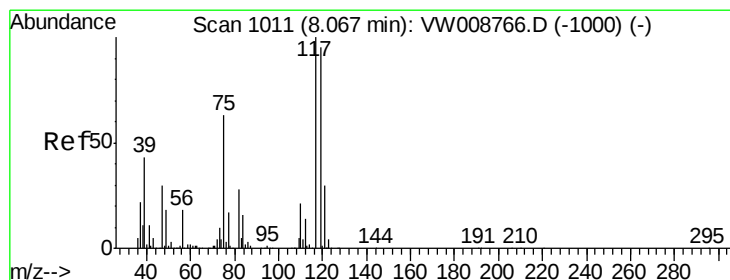
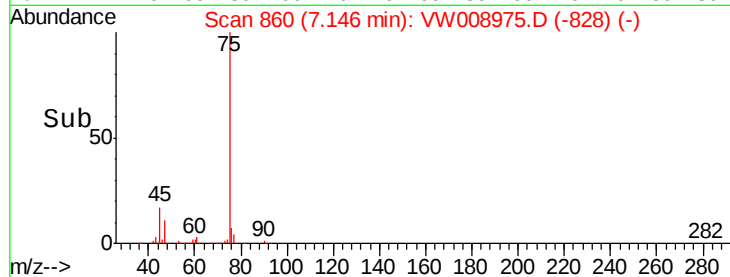
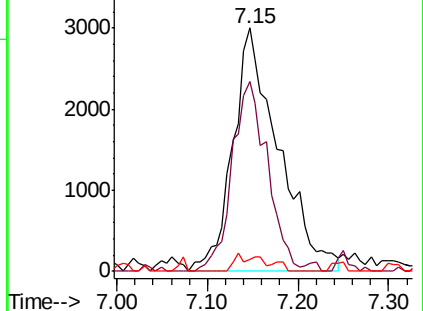
70 1.6 8.4 12.6#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 70.00 (69.70 to 70.70): VW



#38

Carbon Tetrachloride

Concen: 6.079 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW008975.D

Acq: 04 Mar 2019 22:23

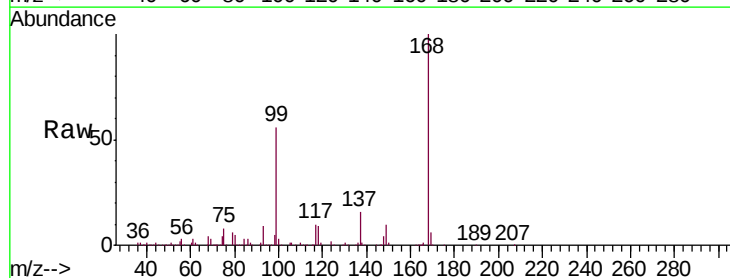
Tgt Ion: 117 Resp: 32448

Ion Ratio Lower Upper

117 100

119 5.8 76.1 114.1#

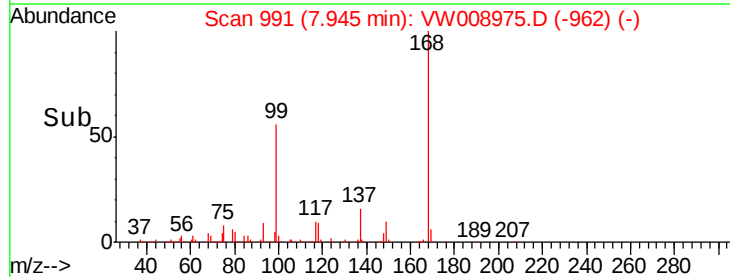
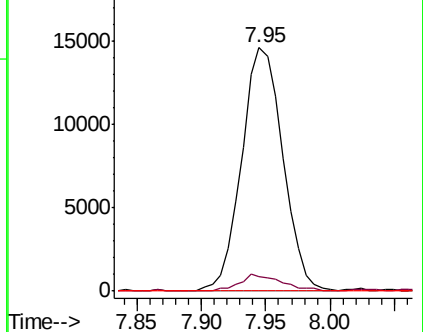
121 0.0 24.0 36.0#

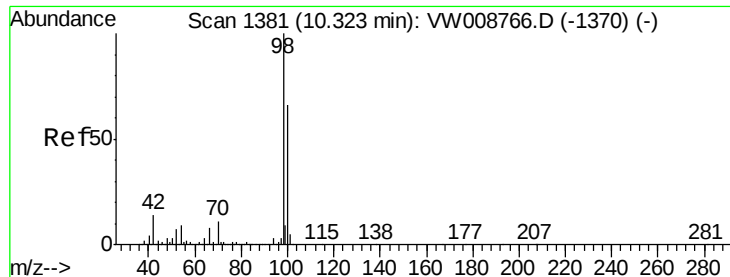


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 51.429 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW008975.D

Acq: 04 Mar 2019 22:23

Instrument :

MSVOA_W

ClientSampleId :

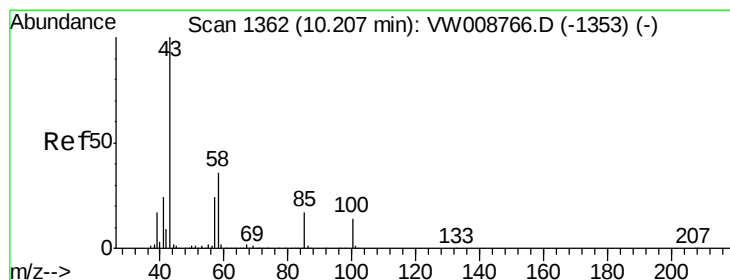
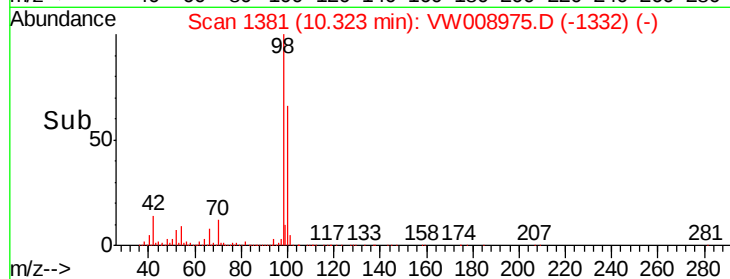
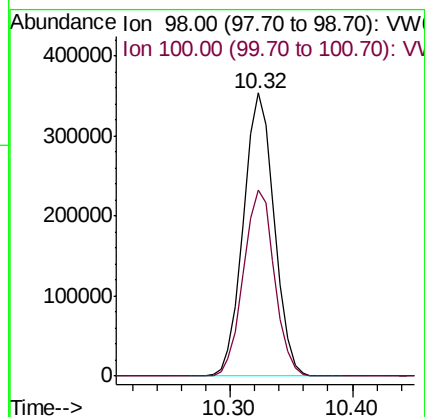
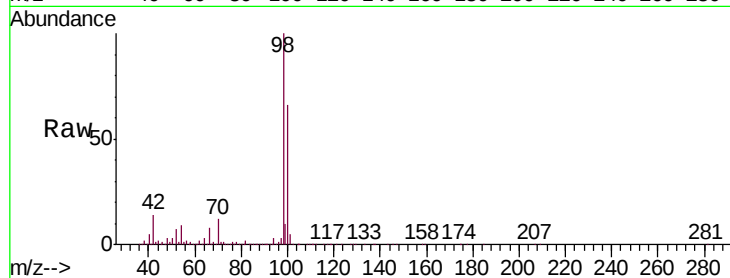
JC-03-030119-C

Tgt Ion: 98 Resp: 619755

Ion Ratio Lower Upper

98 100

100 65.8 52.4 78.6



#51

4-Methyl-2-Pentanone

Concen: 1.488 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW008975.D

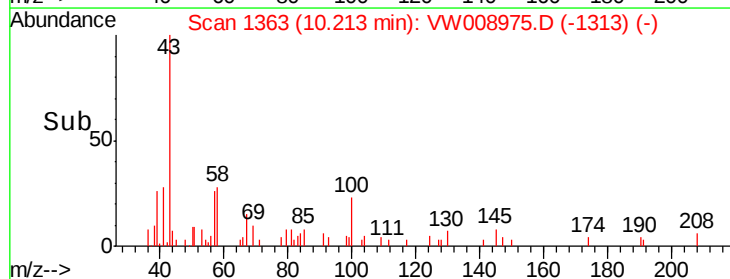
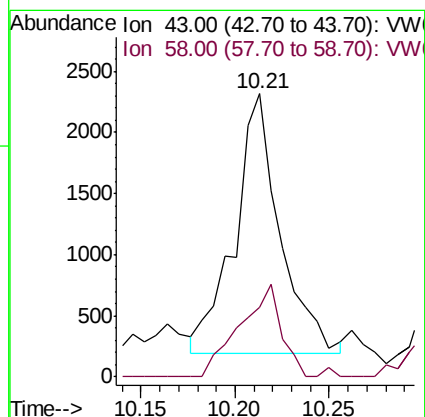
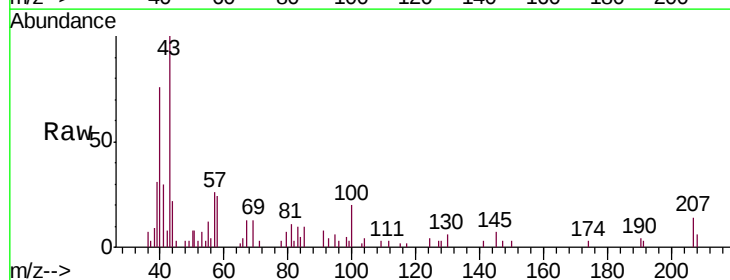
Acq: 04 Mar 2019 22:23

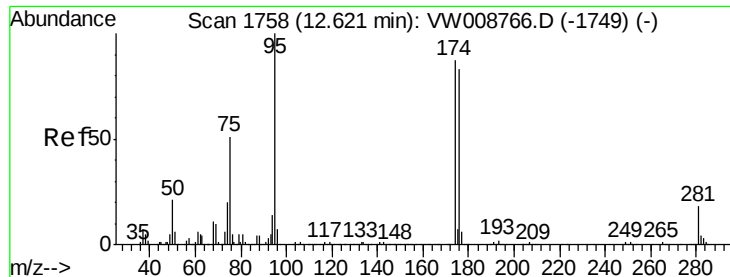
Tgt Ion: 43 Resp: 3549

Ion Ratio Lower Upper

43 100

58 32.4 29.1 43.7





#62

4-Bromofluorobenzene

Concen: 45.253 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW008975.D

Acq: 04 Mar 2019 22:23

Instrument :

MSVOA_W

ClientSampleId :

JC-03-030119-C

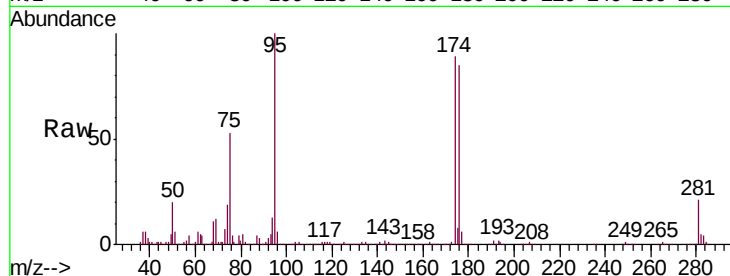
Tgt Ion: 95 Resp: 213519

Ion Ratio Lower Upper

95 100

174 85.9 0.0 169.2

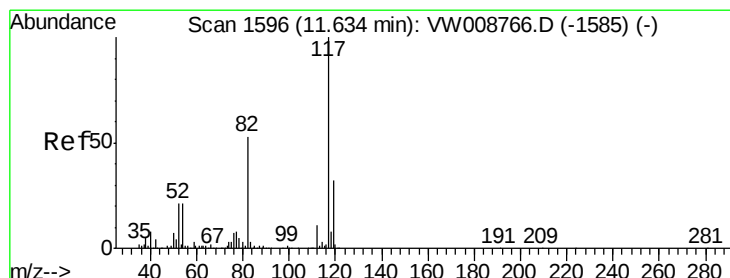
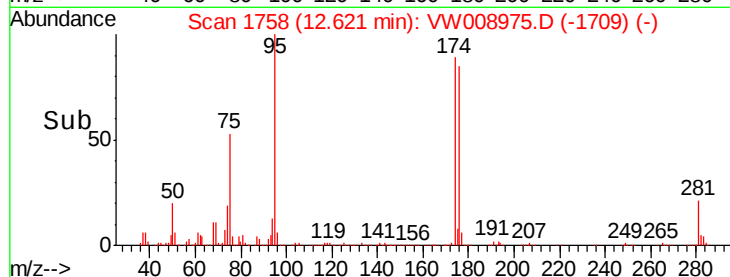
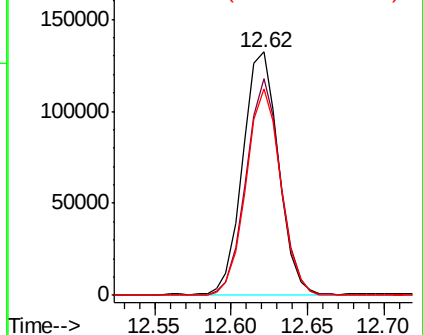
176 83.0 0.0 163.6



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: VW008975.D

Acq: 04 Mar 2019 22:23

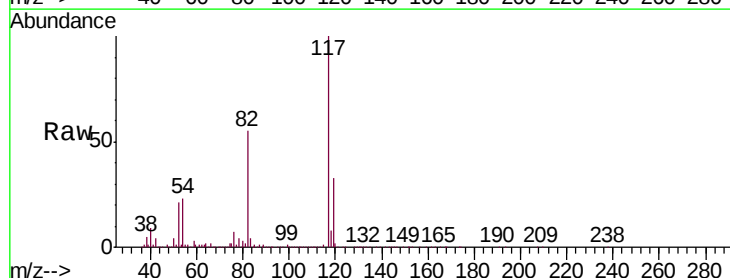
Tgt Ion: 117 Resp: 465518

Ion Ratio Lower Upper

117 100

82 54.6 42.2 63.4

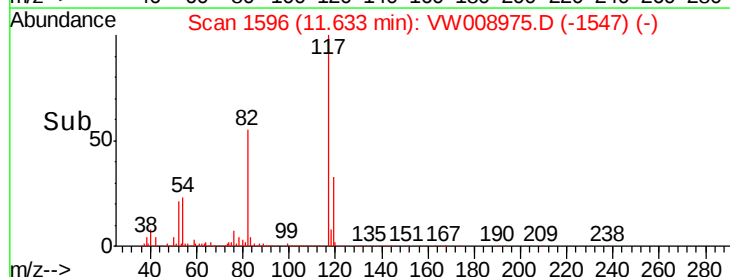
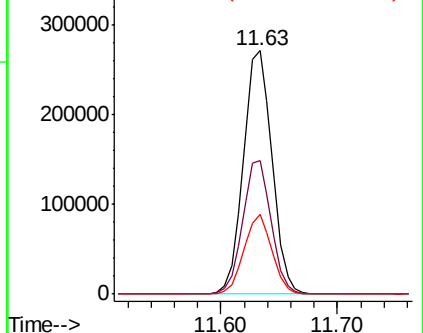
119 32.9 25.9 38.9

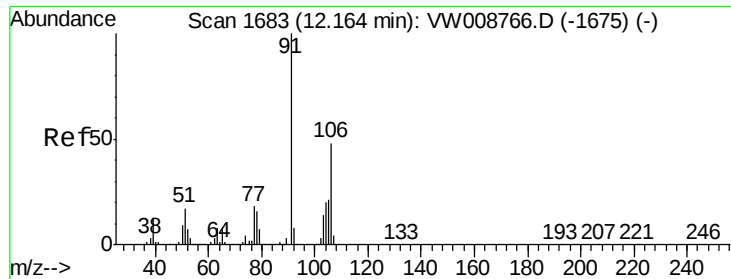


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW

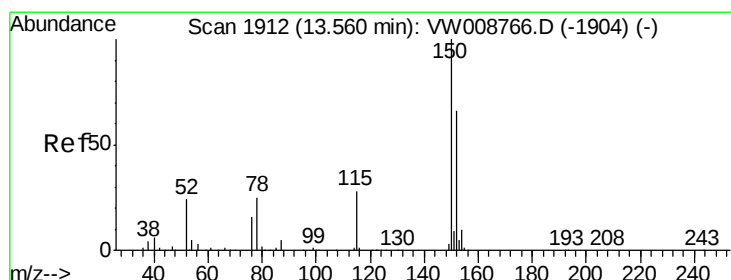
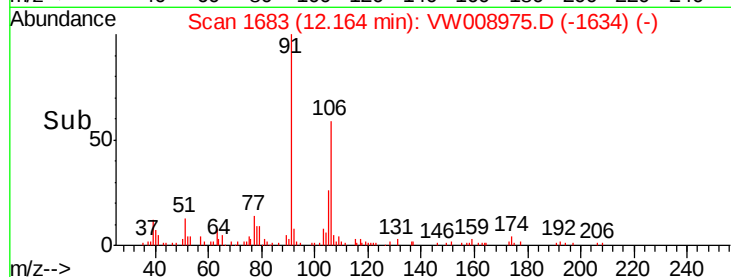
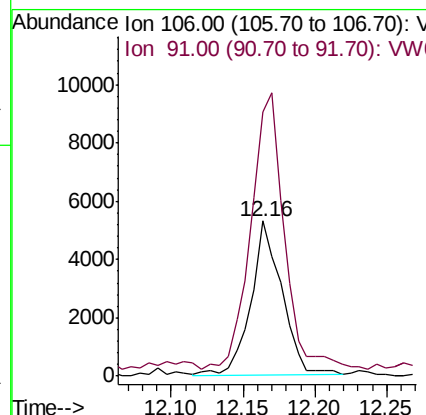
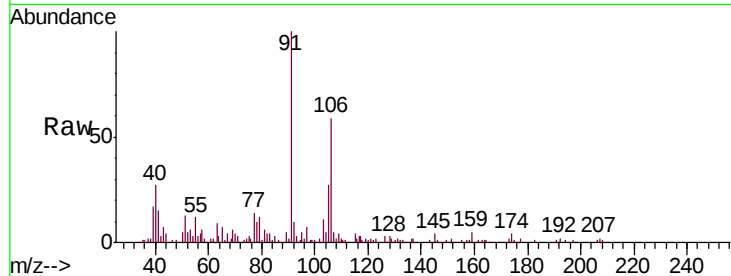




#69
o-Xylene
Concen: 1.185 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW008975.D
Acq: 04 Mar 2019 22:23

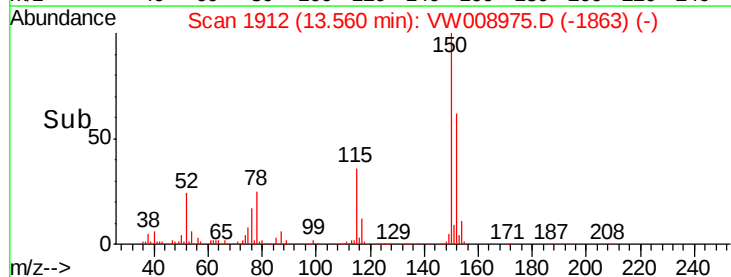
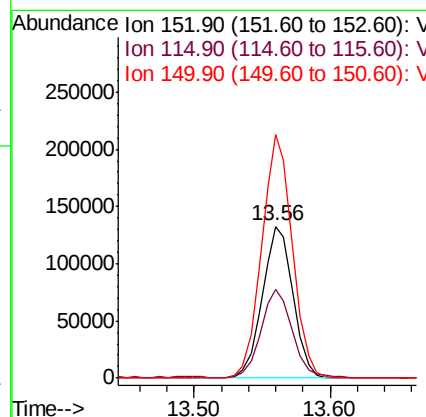
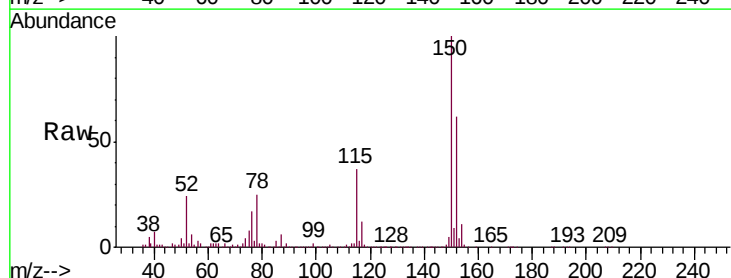
Instrument :
MSVOA_W
ClientSampleId :
JC-03-030119-C

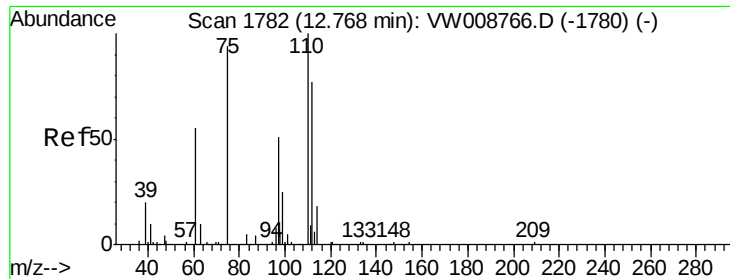
Tgt Ion:106 Resp: 7778
Ion Ratio Lower Upper
106 100
91 196.4 106.2 318.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW008975.D
Acq: 04 Mar 2019 22:23

Tgt Ion:152 Resp: 209285
Ion Ratio Lower Upper
152 100
115 59.5 28.6 85.8
150 159.9 0.0 348.0





#76

1,2,3-Trichloropropane

Concen: 65.869 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008975.D

Acq: 04 Mar 2019 22:23

Instrument :

MSVOA_W

ClientSampleId :

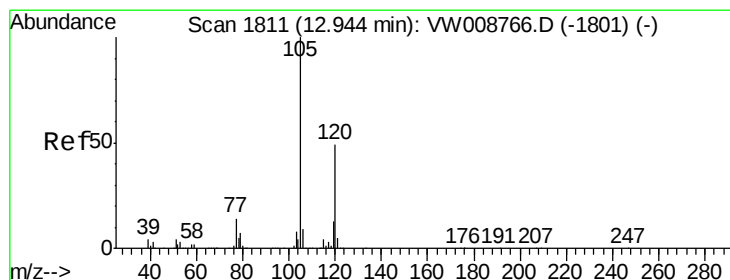
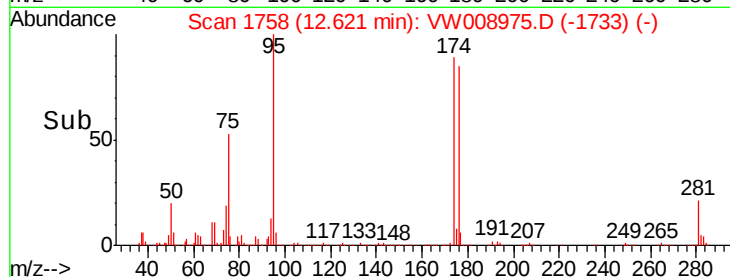
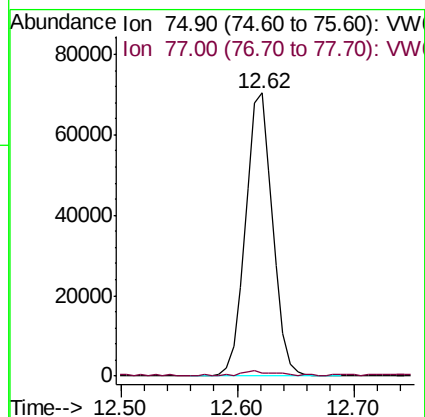
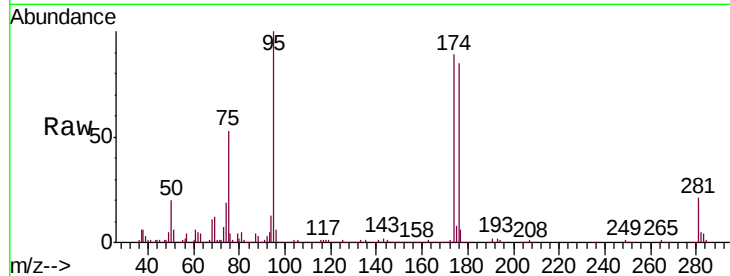
JC-03-030119-C

Tgt Ion: 75 Resp: 113816

Ion Ratio Lower Upper

75 100

77 2.0 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 2.436 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW008975.D

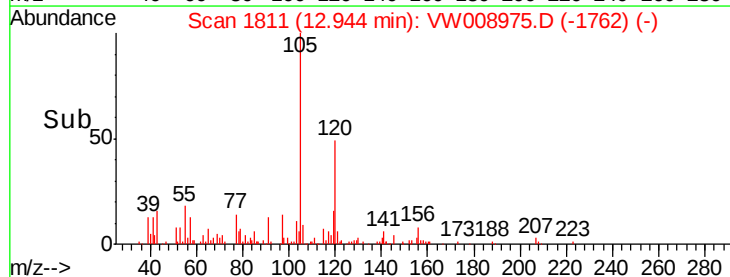
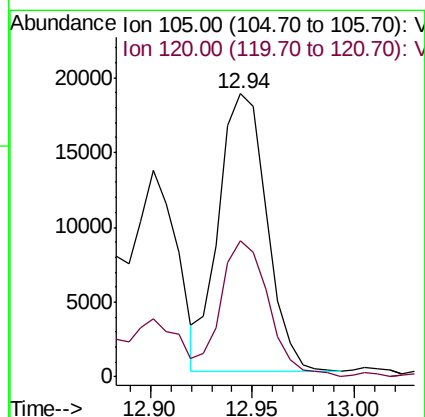
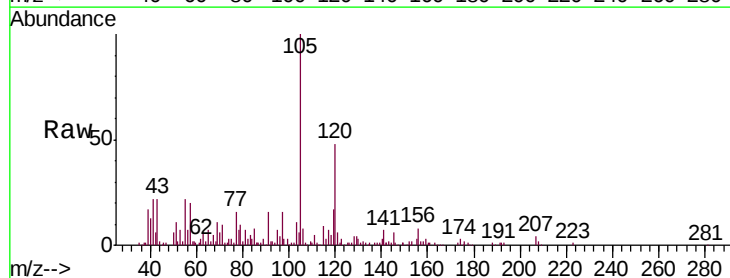
Acq: 04 Mar 2019 22:23

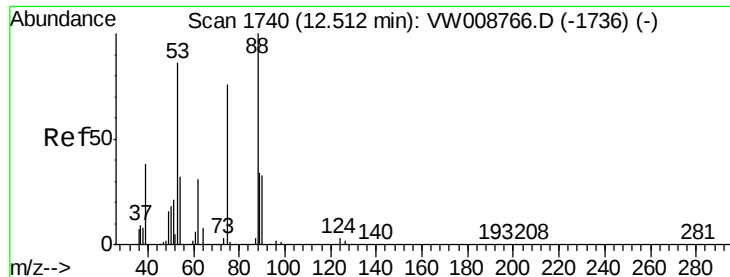
Tgt Ion: 105 Resp: 30377

Ion Ratio Lower Upper

105 100

120 49.1 24.8 74.4





#81

trans-1,4-Dichloro-2-butene

Concen: 160.131 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008975.D

Acq: 04 Mar 2019 22:23

Instrument :

MSVOA_W

ClientSampleId :

JC-03-030119-C

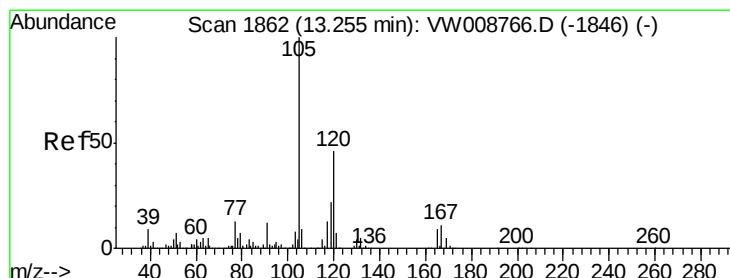
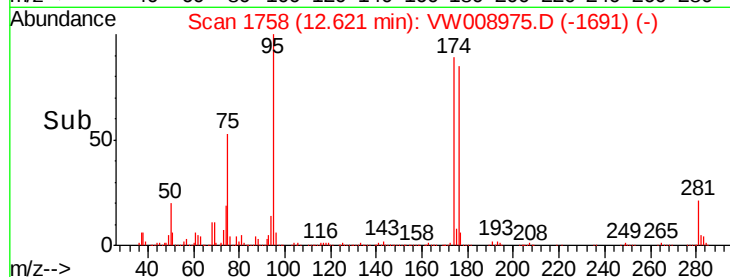
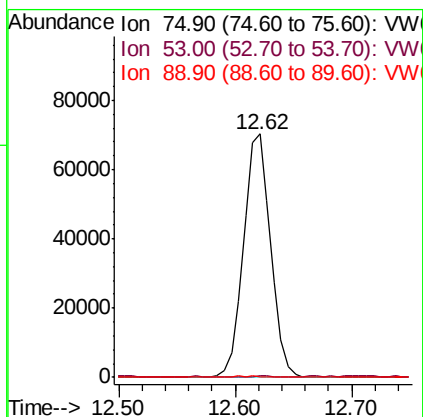
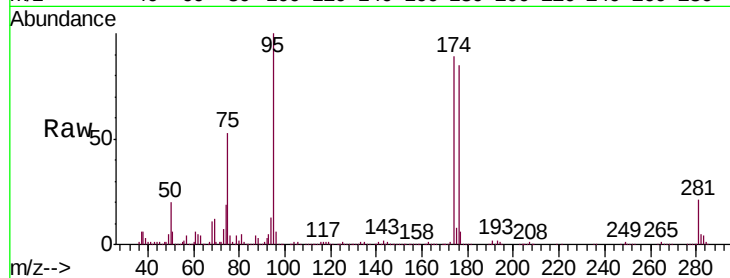
Tgt Ion: 75 Resp: 113816

Ion Ratio Lower Upper

75 100

53 0.3 88.2 132.2#

89 0.5 39.5 59.3#



#84

1,2,4-Trimethylbenzene

Concen: 2.652 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. -0.00 min

Lab File: VW008975.D

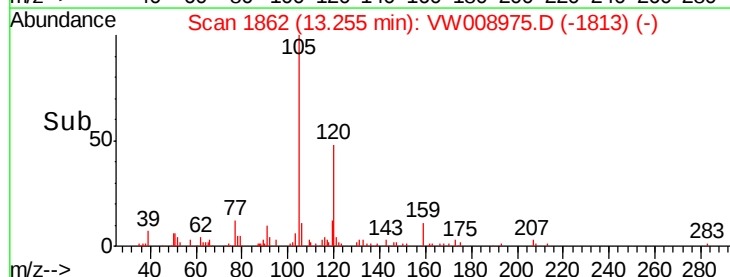
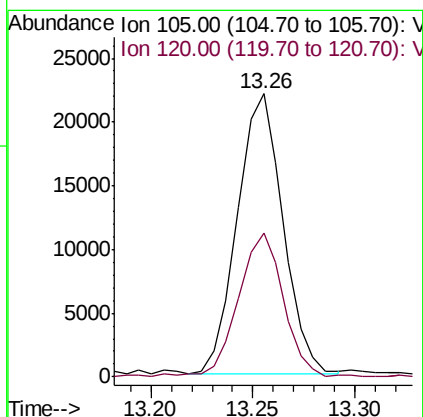
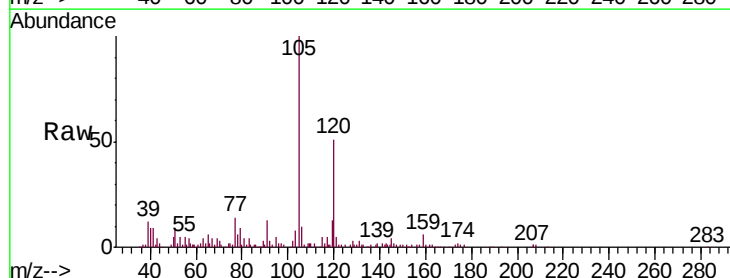
Acq: 04 Mar 2019 22:23

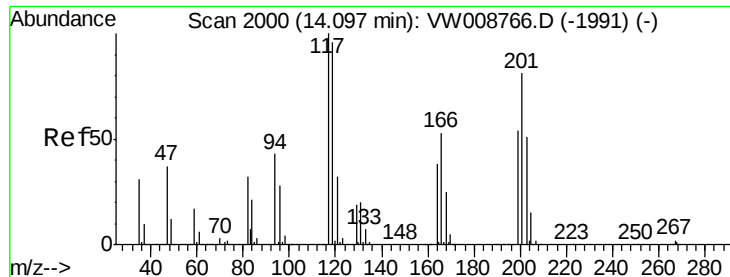
Tgt Ion: 105 Resp: 34228

Ion Ratio Lower Upper

105 100

120 50.6 22.8 68.4





#90

Hexachloroethane

Concen: 2.423 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. 0.01 min

Lab File: VW008975.D

Acq: 04 Mar 2019 22:23

Instrument :

MSVOA_W

ClientSampleId :

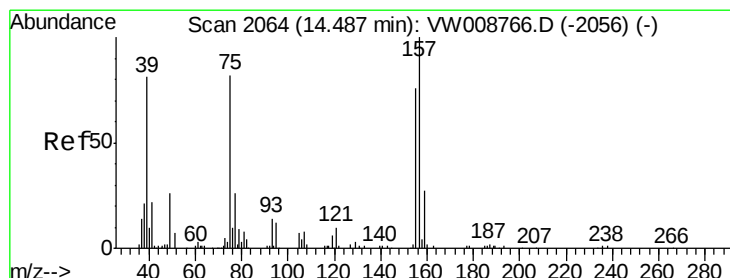
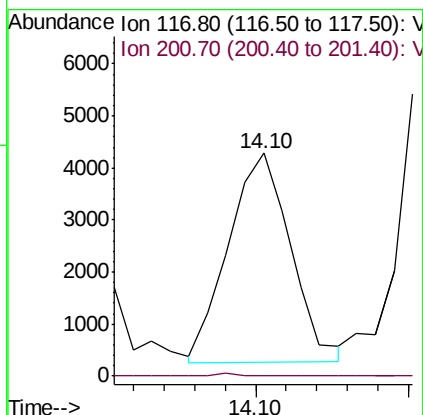
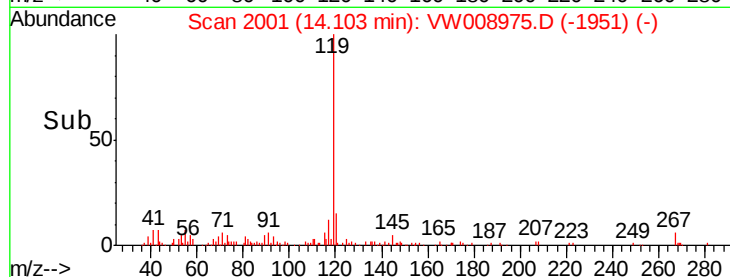
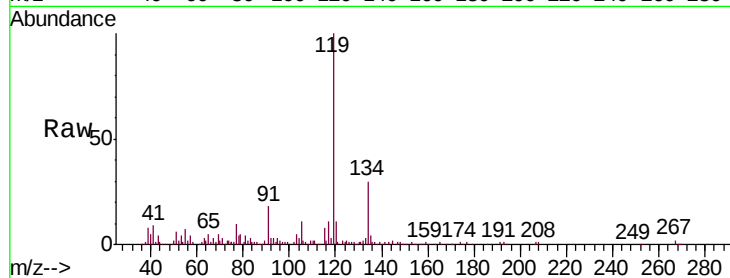
JC-03-030119-C

Tgt Ion: 117 Resp: 5636

Ion Ratio Lower Upper

117 100

201 0.3 40.3 120.8#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.139 ug/l

RT: 14.46 min Scan# 2060

Delta R.T. -0.02 min

Lab File: VW008975.D

Acq: 04 Mar 2019 22:23

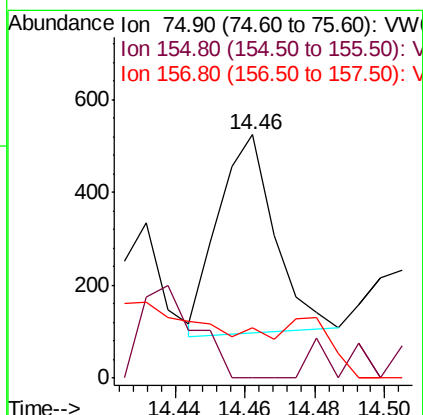
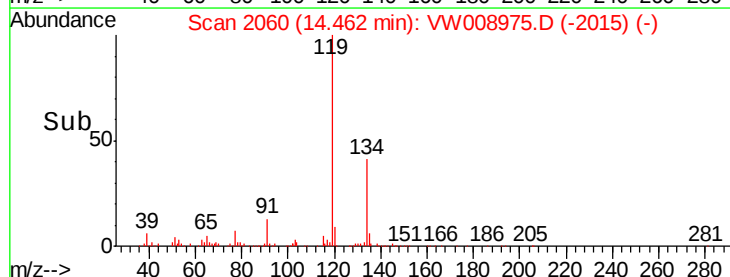
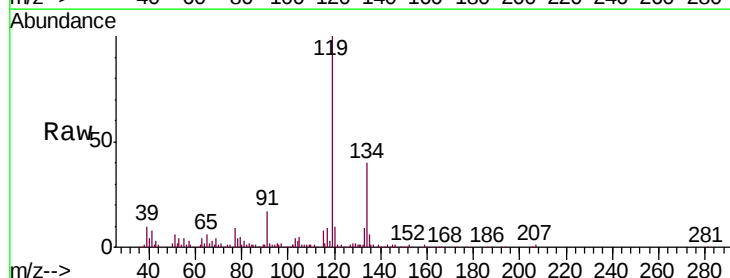
Tgt Ion: 75 Resp: 483

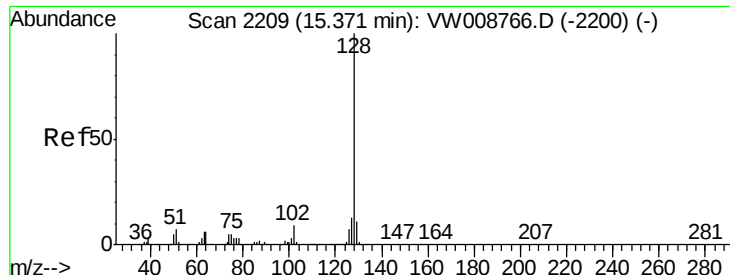
Ion Ratio Lower Upper

75 100

155 6.4 41.8 125.4#

157 0.0 56.6 169.9#

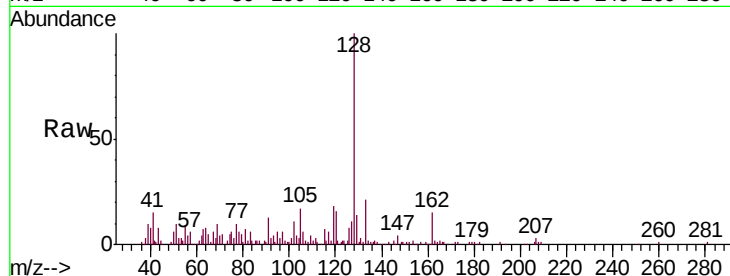




#95
Naphthalene
Concen: 4.990 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. -0.00 min
Lab File: VW008975.D
Acq: 04 Mar 2019 22:23

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

Tgt Ion	Ratio	Lower	Upper
128	100		
127	15.0	10.8	16.2
129	9.1	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

