

Data File : VW008635.D
Acq On : 12 Feb 2019 20:46
Operator : SY/VA
Sample : K1343-23RE
Misc : 6.93G/5ML/MSVOA_W/SOIL
ALS Vial : 23 Sample Multiplier: 1

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

Quant Time: Feb 13 00:25:49 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W012419S.M
Quant Title : SW846 8260
QLast Update : Fri Jan 25 11:07:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	357779	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	582713	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	536894	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	245646	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	204550	58.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.40%	
35) Dibromofluoromethane	7.88	113	183158	53.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.50%	
50) Toluene-d8	10.32	98	696403	50.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.94%	
62) 4-Bromofluorobenzene	12.62	95	258849	49.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.58%	

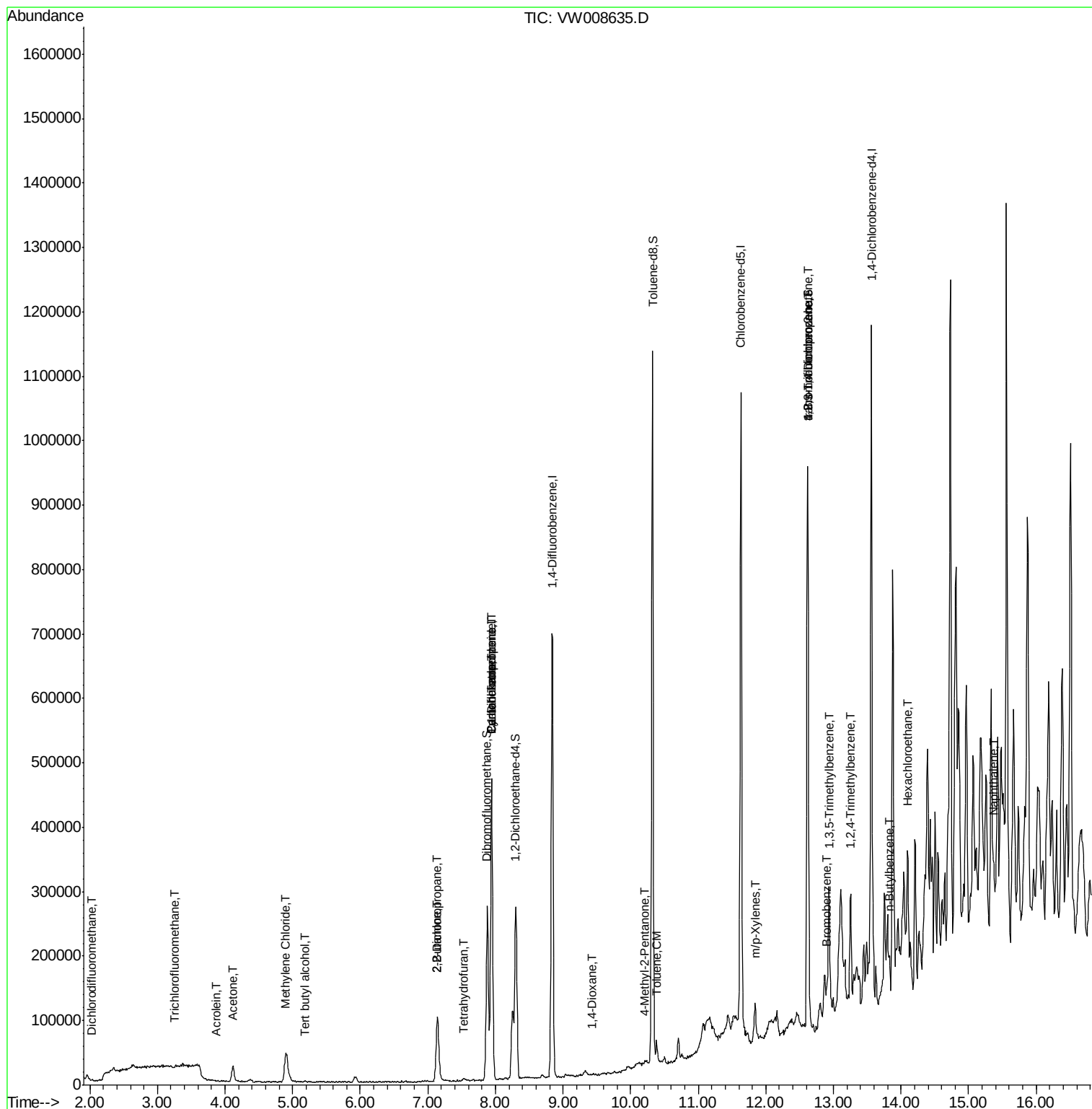
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.03	85	131	3.312	ug/l #	41
7) Trichlorofluoromethane	3.25	101	377	4.830	ug/l #	50
11) Tert butyl alcohol	5.18	59	1219	4.308	ug/l #	92
13) Acrolein	3.87	56	217	5.040	ug/l #	65
16) Acetone	4.12	43	42363	53.671	ug/l	95
20) Methylene Chloride	4.90	84	37406	10.282	ug/l	98
25) 2-Butanone	7.14	43	8889	8.108	ug/l #	63
26) 2,2-Dichloropropane	7.13	77	8024	1.779	ug/l #	56
29) Tetrahydrofuran	7.52	42	3312	4.767	ug/l #	72
31) Cyclohexane	7.94	56	8764	1.270	ug/l #	20
36) 1,1-Dichloropropene	7.94	75	26876	4.883	ug/l #	50
38) Carbon Tetrachloride	7.94	117	34921	6.305	ug/l #	16
49) 1,4-Dioxane	9.44	88	59	1.782	ug/l #	1
51) 4-Methyl-2-Pentanone	10.21	43	3299	1.320	ug/l #	72
52) Toluene	10.39	92	12967	1.286	ug/l	93
68) m/p-Xylenes	11.84	106	11306	1.446	ug/l	97
76) 1,2,3-Trichloropropane	12.62	75	136950	64.124	ug/l #	1
77) Bromobenzene	12.89	156	15801	3.951	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.94	105	22998	1.502	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.62	75	136950	126.649	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.26	105	100352	6.450	ug/l	98
89) n-Butylbenzene	13.83	91	33415	1.997	ug/l #	81
90) Hexachloroethane	14.10	117	9175	2.753	ug/l #	11
95) Naphthalene	15.37	128	39462	4.407	ug/l #	97

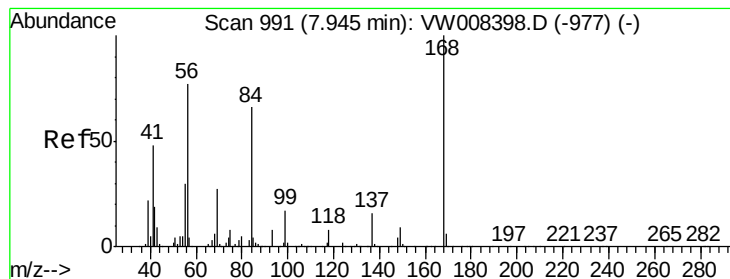
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW008635.D

Acq: 12 Feb 2019 20:46

Instrument :

MSVOA_W

ClientSampleId :

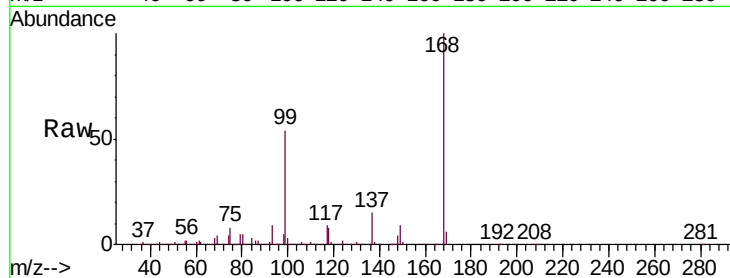
JC-02-021119-L

Tgt Ion:168 Resp: 357779

Ion Ratio Lower Upper

168 100

99 53.5 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

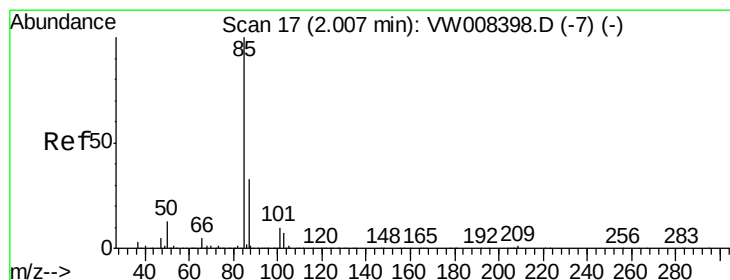
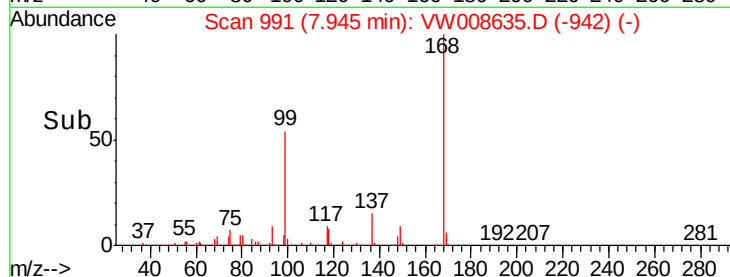
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 3.312 ug/l

RT: 2.03 min Scan# 21

Delta R.T. 0.02 min

Lab File: VW008635.D

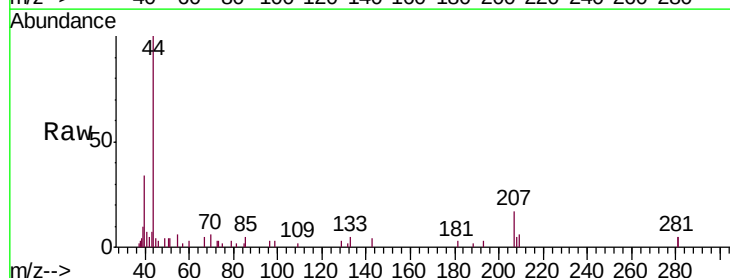
Acq: 12 Feb 2019 20:46

Tgt Ion: 85 Resp: 131

Ion Ratio Lower Upper

85 100

87 0.0 16.7 50.1#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.03

200

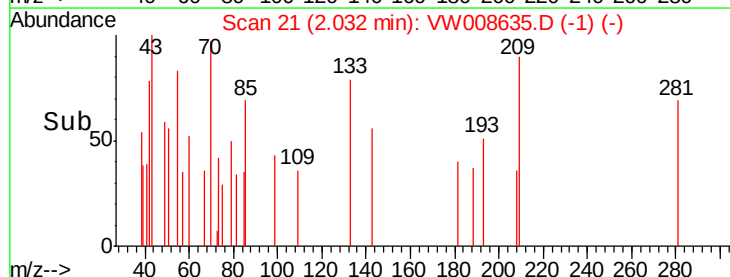
150

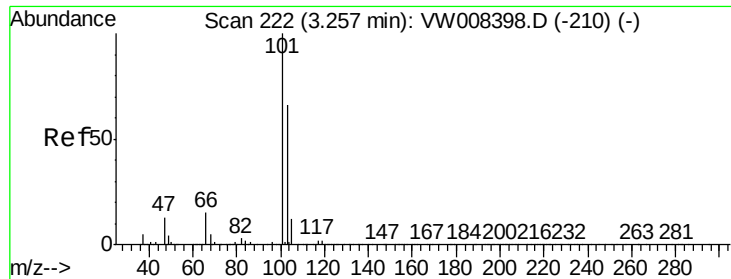
100

50

0

Time-->



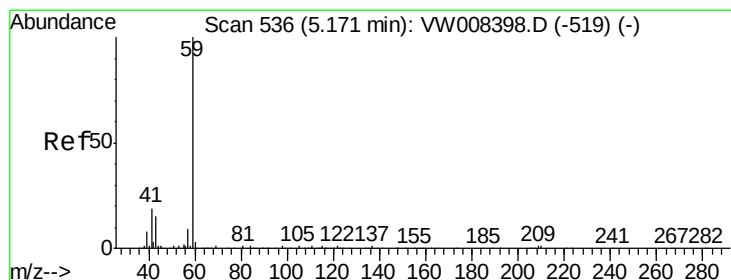
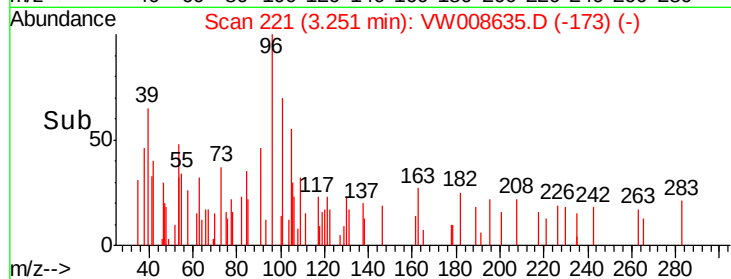
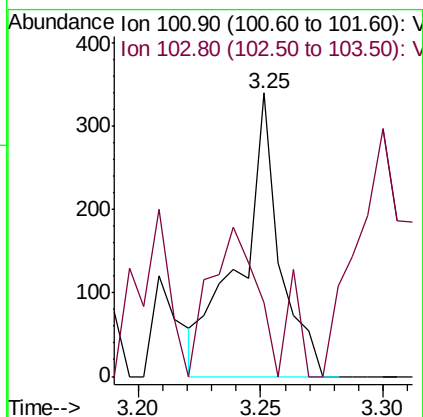
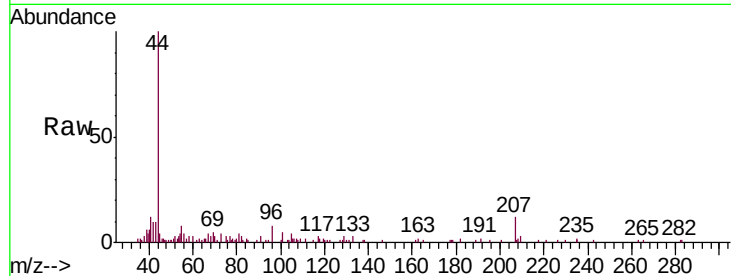


#7

Trichlorofluoromethane
 Concen: 4.830 ug/l
 RT: 3.25 min Scan# 221
 Delta R.T. -0.01 min
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 MSVOA_W
 ClientSampleId :
 JC-02-021119-L

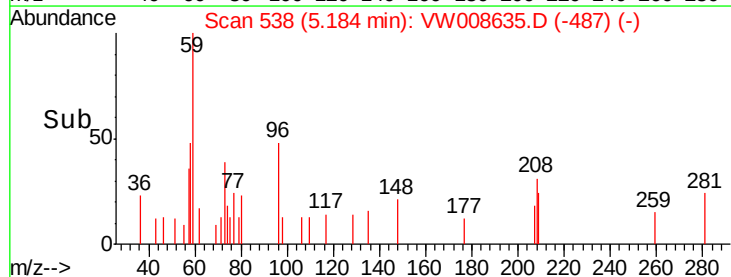
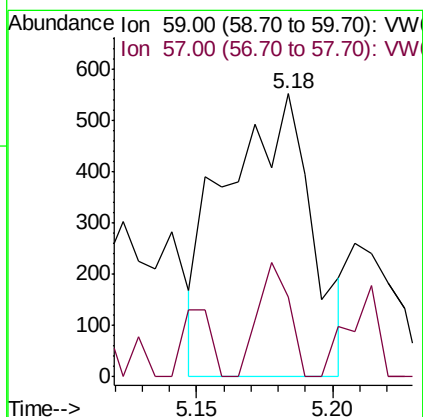
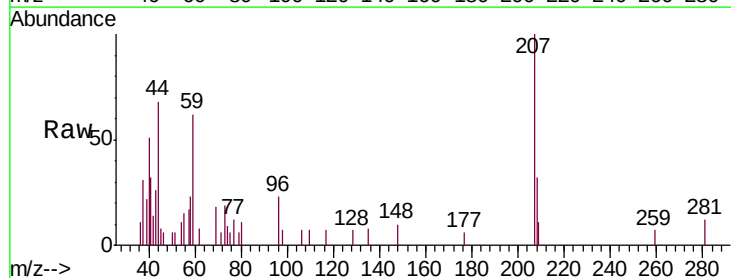
Tgt Ion: 101 Resp: 377
 Ion Ratio Lower Upper
 101 100
 103 26.0 52.5 78.7#

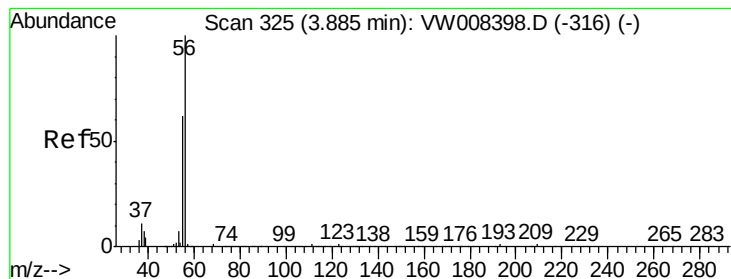


#11

Tert butyl alcohol
 Concen: 4.308 ug/l
 RT: 5.18 min Scan# 538
 Delta R.T. 0.01 min
 Lab File: VW008635.D
 Acq: 12 Feb 2019 20:46

Tgt Ion: 59 Resp: 1219
 Ion Ratio Lower Upper
 59 100
 57 14.7 9.3 13.9#





#13

Acrolein

Concen: 5.040 ug/l

RT: 3.87 min Scan# 323

Delta R.T. -0.01 min

Lab File: VW008635.D

Acq: 12 Feb 2019 20:46

Instrument :

MSVOA_W

ClientSampleId :

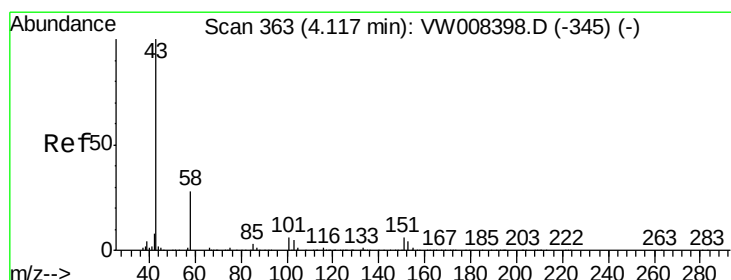
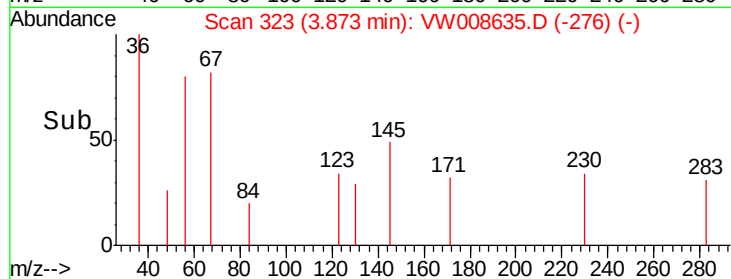
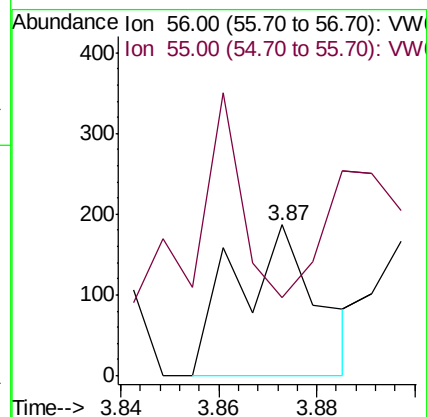
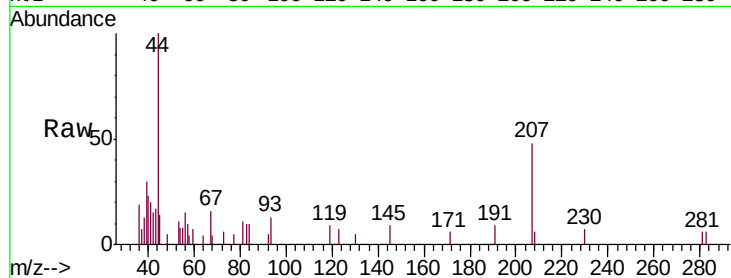
JC-02-021119-L

Tgt Ion: 56 Resp: 217

Ion Ratio Lower Upper

56 100

55 99.5 56.7 85.1#



#16

Acetone

Concen: 53.671 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW008635.D

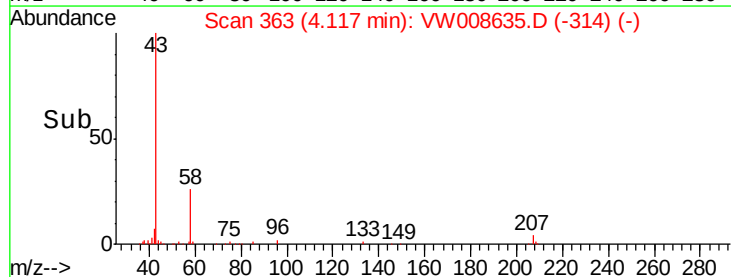
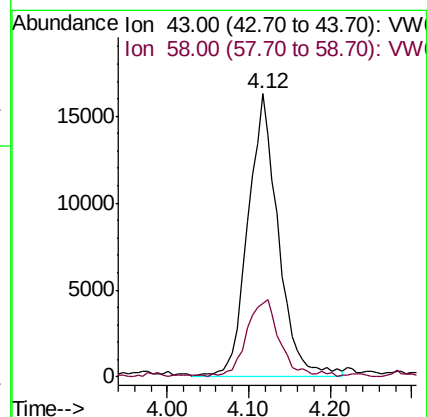
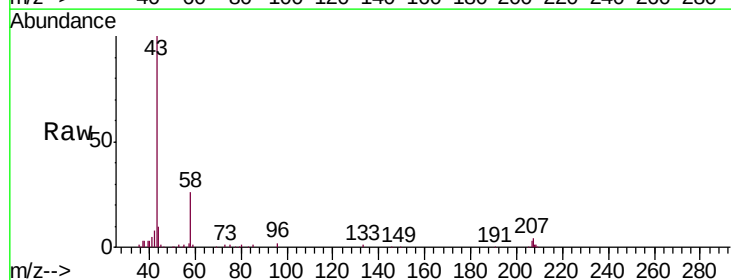
Acq: 12 Feb 2019 20:46

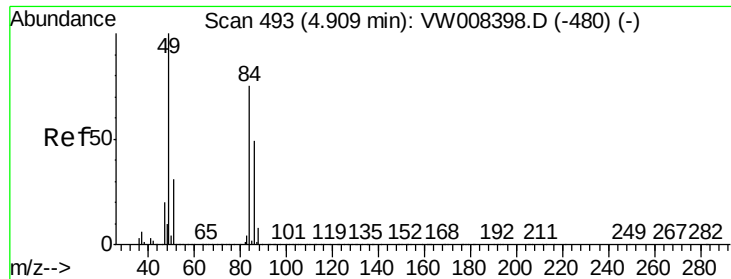
Tgt Ion: 43 Resp: 42363

Ion Ratio Lower Upper

43 100

58 25.6 22.6 34.0

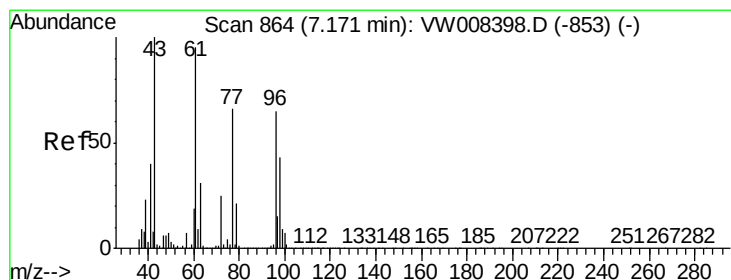
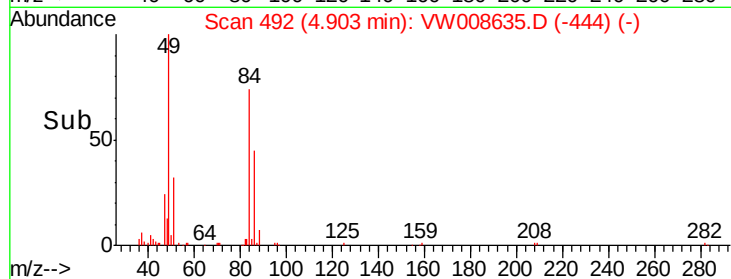
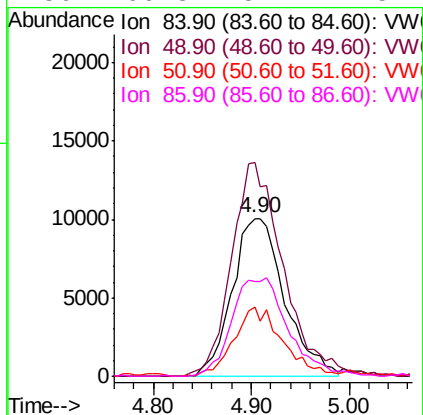
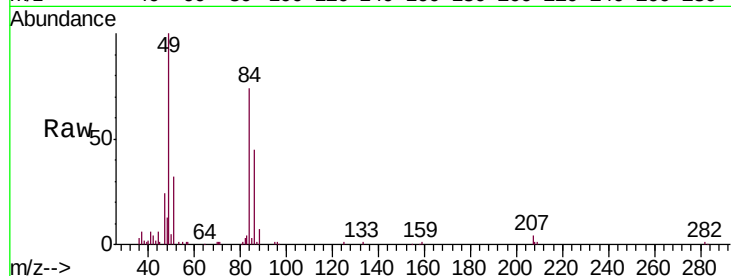




#20
Methylene Chloride
Concen: 10.282 ug/l
RT: 4.90 min Scan# 492
Delta R.T. -0.01 min
Lab File: VW008635.D
Acq: 12 Feb 2019 20:46

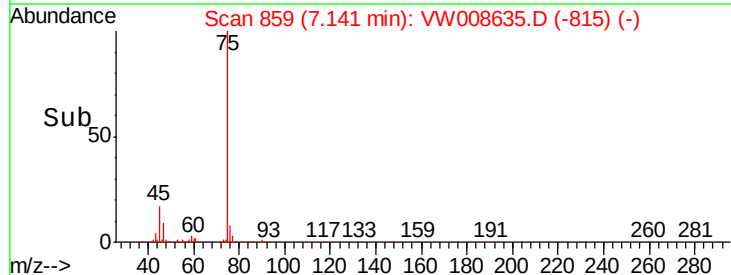
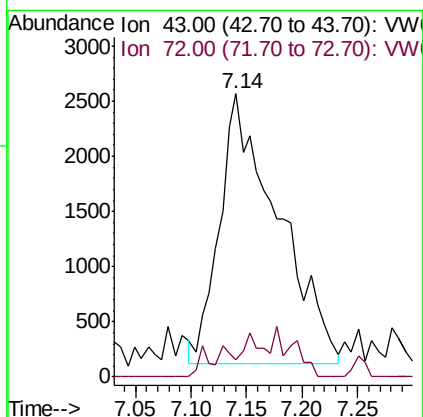
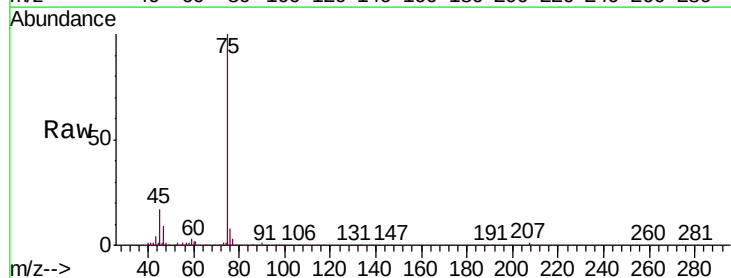
Instrument :
MSVOA_W
ClientSampleId :
JC-02-021119-L

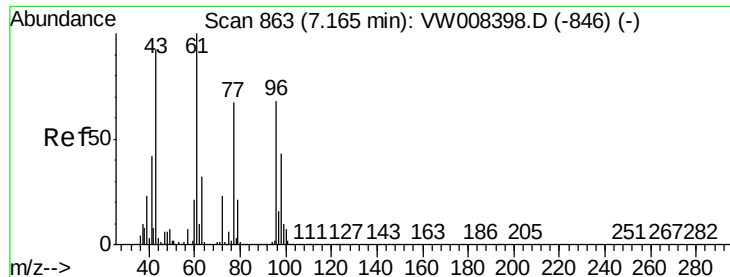
Tgt Ion:	84	Resp:	37406
Ion	Ratio	Lower	Upper
84	100		
49	133.7	106.8	160.2
51	43.1	32.9	49.3
86	60.3	52.2	78.2



#25
2-Butanone
Concen: 8.108 ug/l
RT: 7.14 min Scan# 859
Delta R.T. -0.03 min
Lab File: VW008635.D
Acq: 12 Feb 2019 20:46

Tgt Ion:	43	Resp:	8889
Ion	Ratio	Lower	Upper
43	100		
72	6.4	20.1	30.1#





#26

2,2-Dichloropropane

Concen: 1.779 ug/l

RT: 7.13 min Scan# 858

Delta R.T. -0.03 min

Lab File: VW008635.D

Acq: 12 Feb 2019 20:46

Instrument :

MSVOA_W

ClientSampleId :

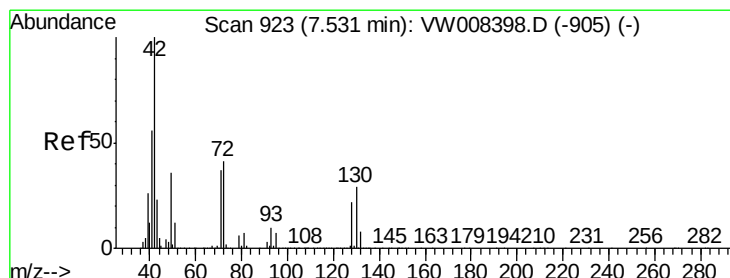
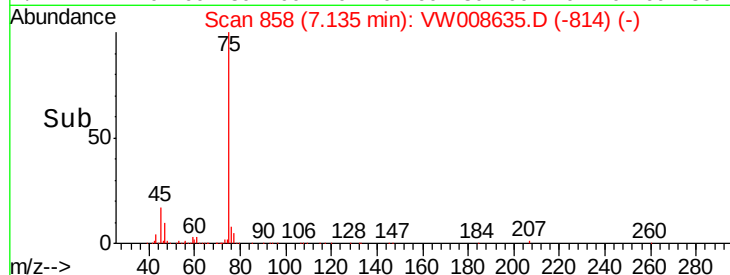
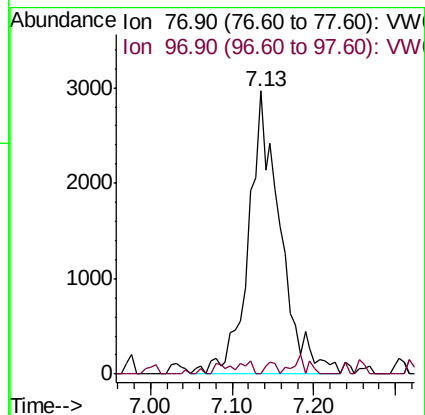
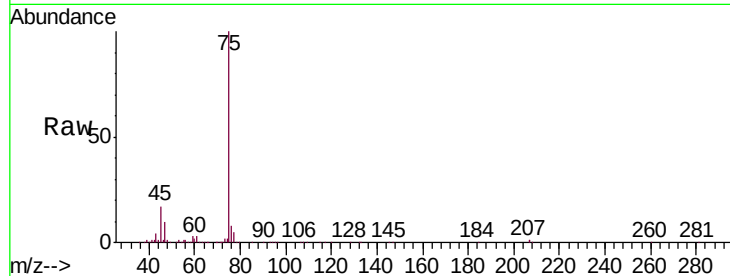
JC-02-021119-L

Tgt Ion: 77 Resp: 8024

Ion Ratio Lower Upper

77 100

97 1.5 11.5 34.5#



#29

Tetrahydrofuran

Concen: 4.767 ug/l

RT: 7.52 min Scan# 922

Delta R.T. -0.01 min

Lab File: VW008635.D

Acq: 12 Feb 2019 20:46

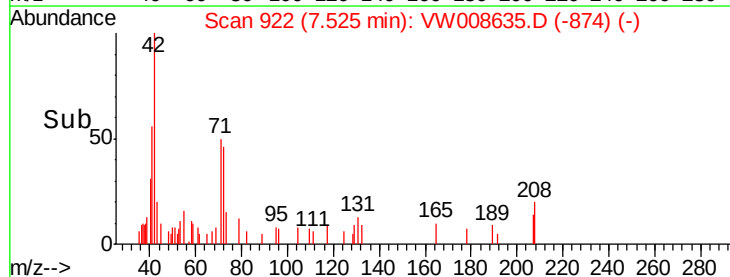
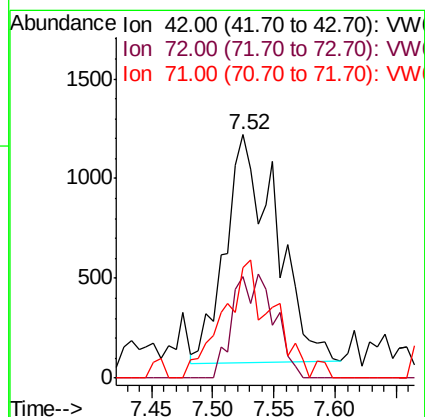
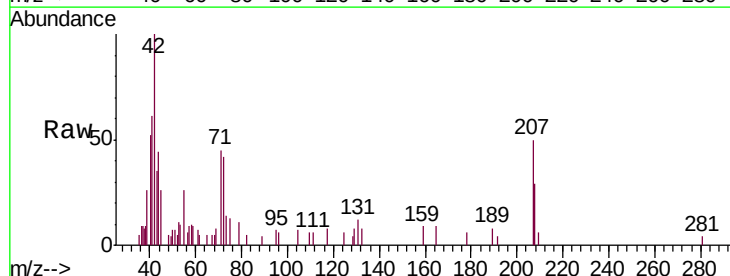
Tgt Ion: 42 Resp: 3312

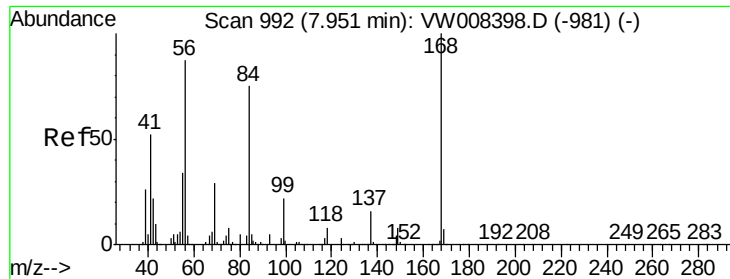
Ion Ratio Lower Upper

42 100

72 17.8 31.9 47.9#

71 49.5 29.9 44.9#

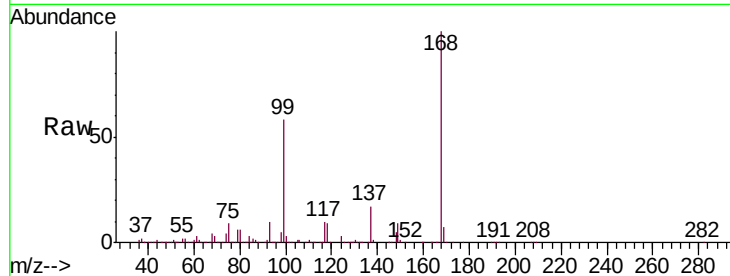




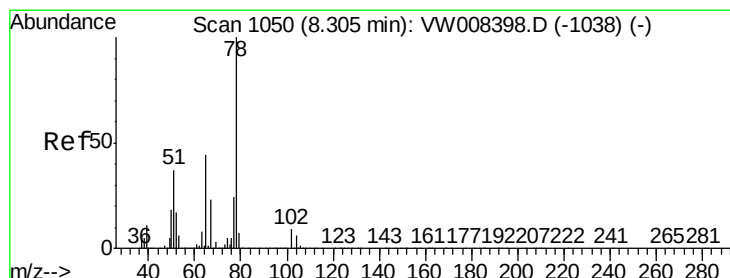
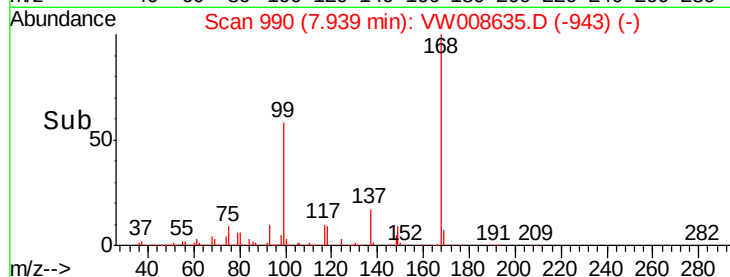
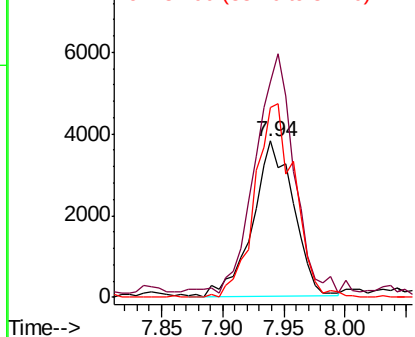
#31
Cyclohexane
Concen: 1.270 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.01 min
Lab File: VW008635.D
Acq: 12 Feb 2019 20:46

Instrument :
MSVOA_W
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JC-02-021119-L

Tgt Ion: 56 Resp: 8764
Ion Ratio Lower Upper
56 100
69 137.4 26.4 39.6#
84 123.4 69.1 103.7#

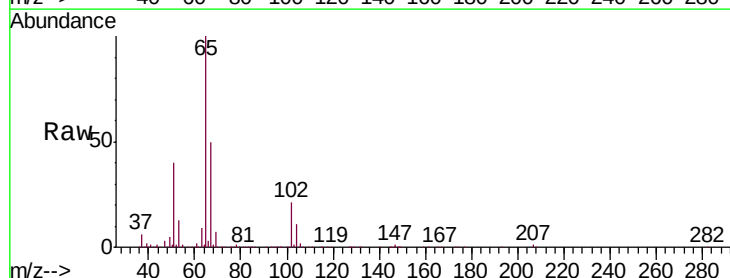


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

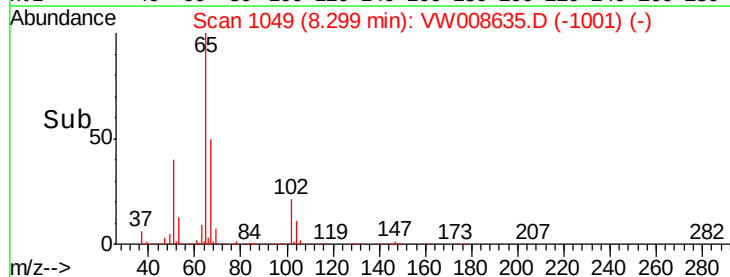
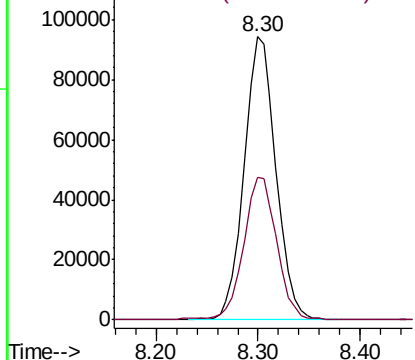


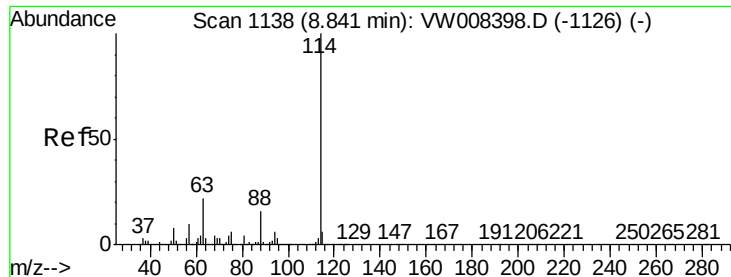
#33
1,2-Dichloroethane-d4
Concen: 58.196 ug/l
RT: 8.30 min Scan# 1049
Delta R.T. -0.01 min
Lab File: VW008635.D
Acq: 12 Feb 2019 20:46

Tgt Ion: 65 Resp: 204550
Ion Ratio Lower Upper
65 100
67 52.2 0.0 104.0



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

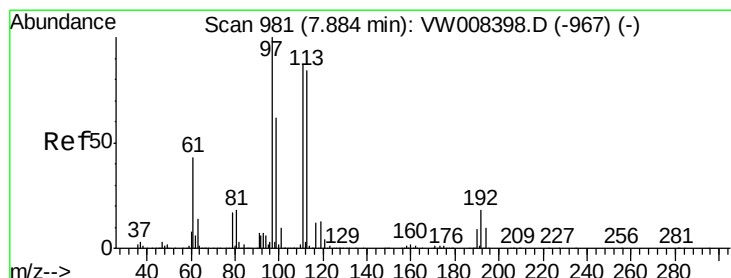
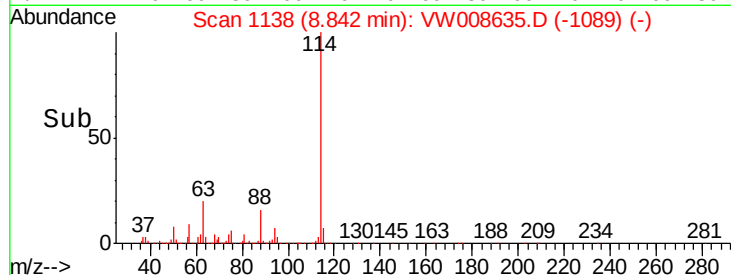
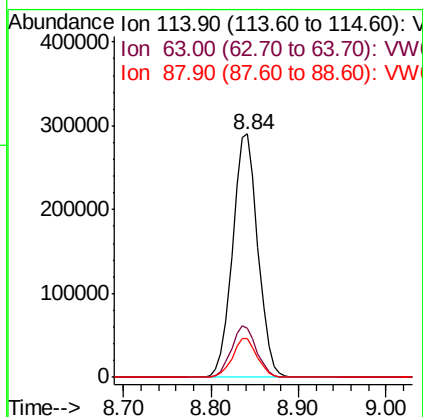
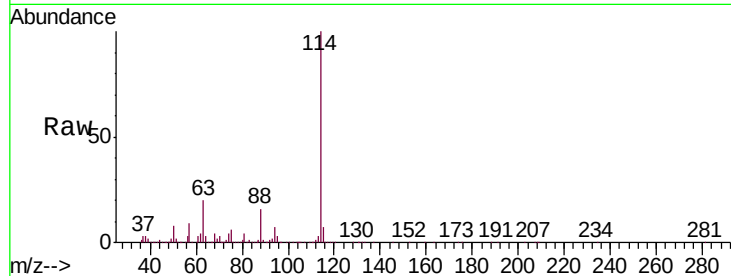




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW008635.D
 Acq: 12 Feb 2019 20:46

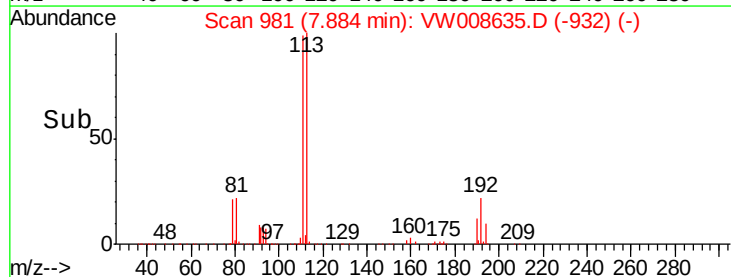
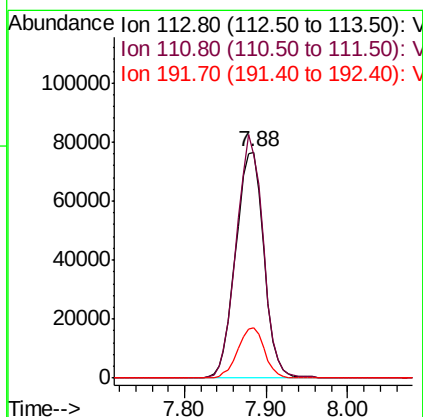
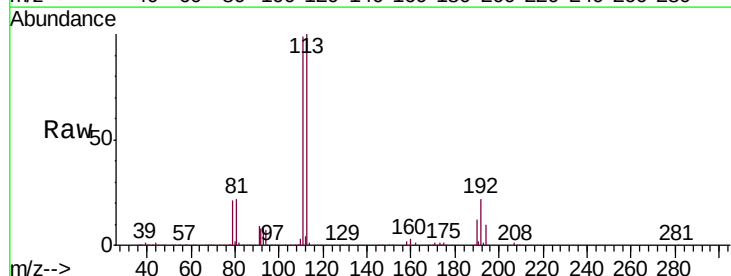
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 MSVOA_W
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 JC-02-021119-L

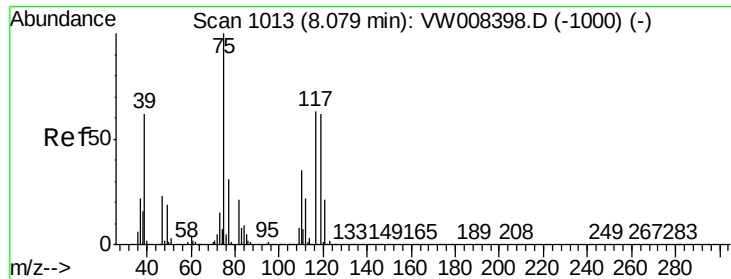
Tgt Ion:	114	Resp:	582713
Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	43.6
88	15.7	0.0	31.8



#35
 Dibromofluoromethane
 Concen: 53.754 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW008635.D
 Acq: 12 Feb 2019 20:46

Tgt Ion:	113	Resp:	183158
Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.0	121.4
192	21.1	16.8	25.2





#36

1,1-Dichloropropene

Concen: 4.883 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW008635.D

Acq: 12 Feb 2019 20:46

Instrument :

MSVOA_W

ClientSampleId :

JC-02-021119-L

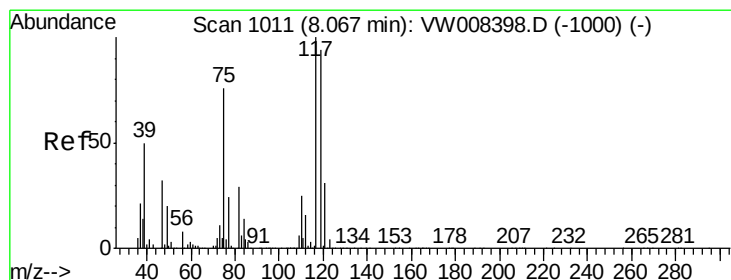
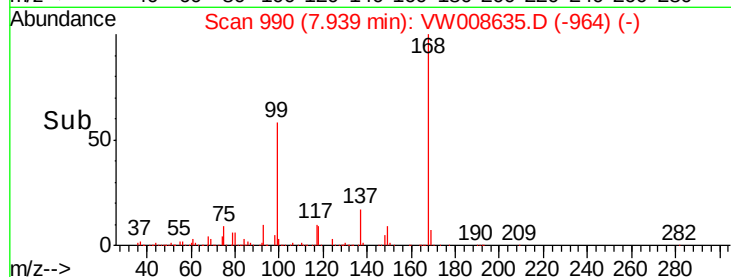
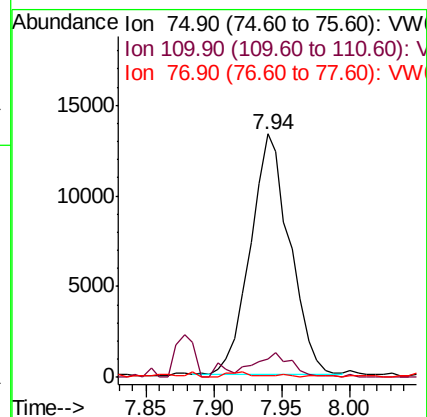
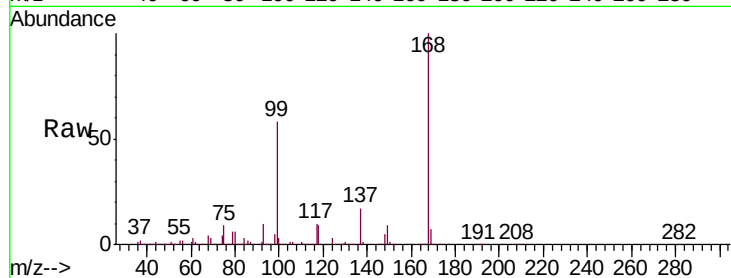
Tgt Ion: 75 Resp: 26876

Ion Ratio Lower Upper

75 100

110 8.6 17.3 52.0#

77 0.5 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 6.305 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.13 min

Lab File: VW008635.D

Acq: 12 Feb 2019 20:46

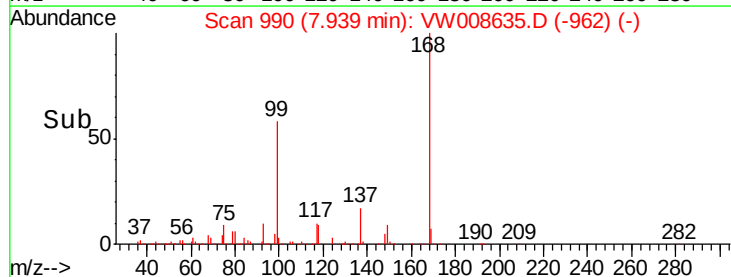
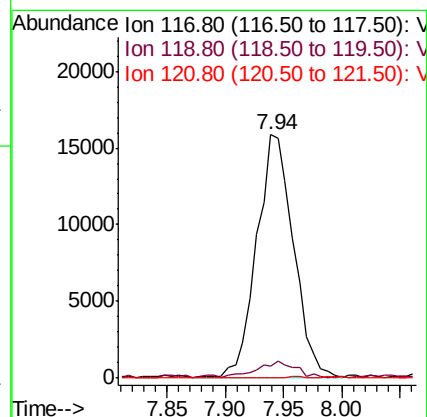
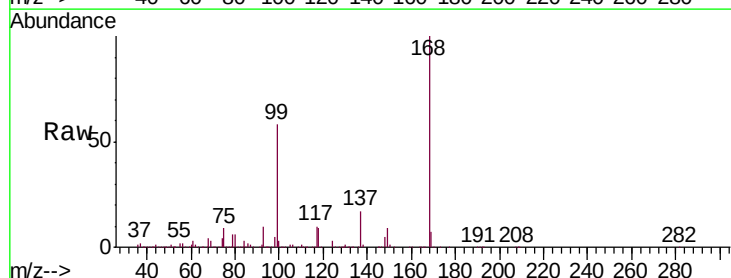
Tgt Ion: 117 Resp: 34921

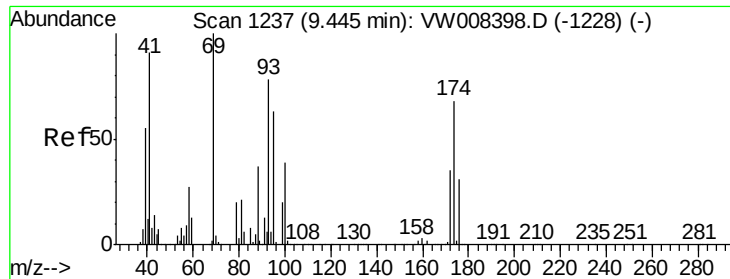
Ion Ratio Lower Upper

117 100

119 4.4 75.0 112.4#

121 0.0 24.9 37.3#

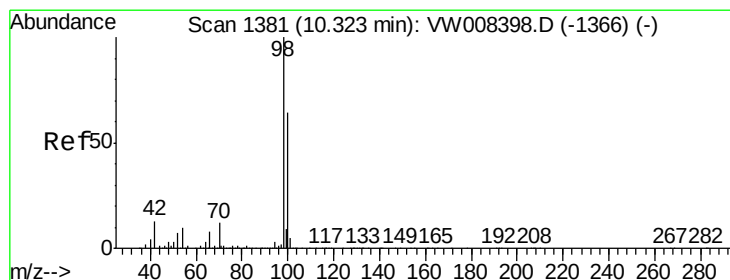
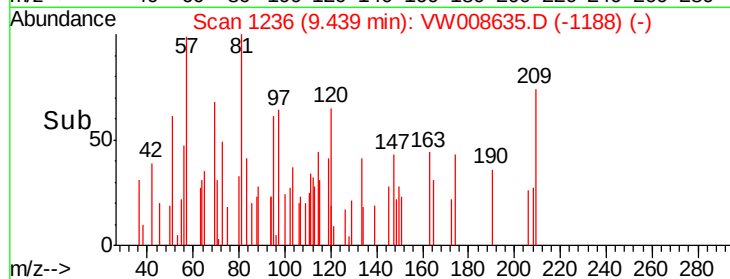
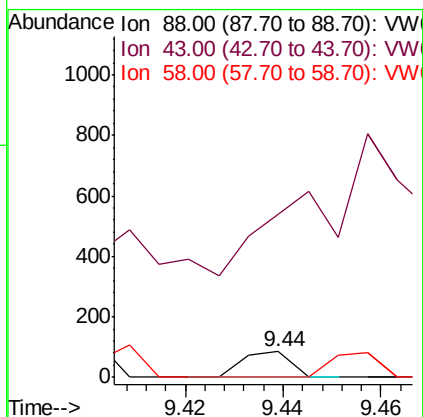
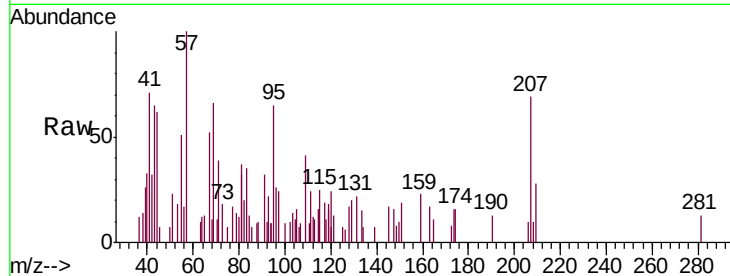




#49
1,4-Dioxane
Concen: 1.782 ug/l
RT: 9.44 min Scan# 1236
Delta R.T. -0.01 min
Lab File: VW008635.D
Acq: 12 Feb 2019 20:46

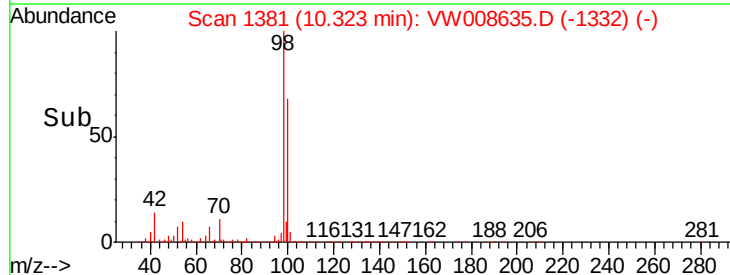
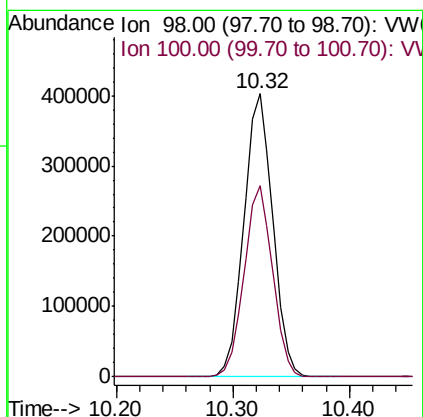
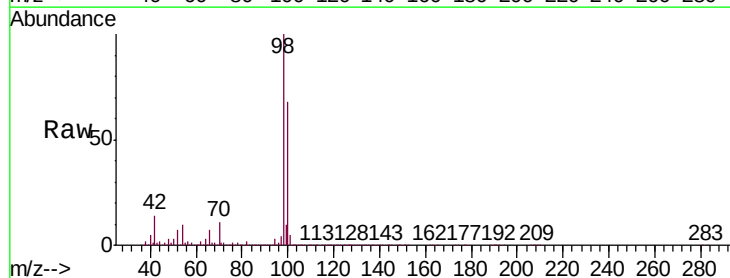
Instrument :
MSVOA_W
ClientSampled :
JC-02-021119-L

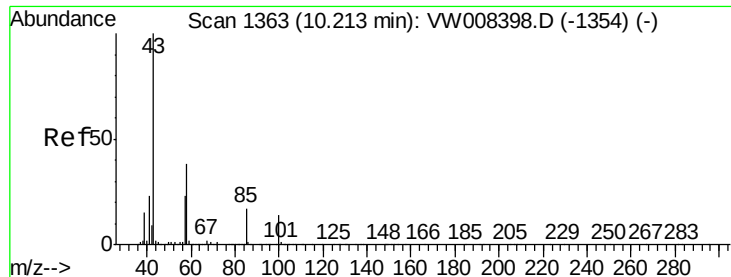
Tgt Ion: 88 Resp: 59
Ion Ratio Lower Upper
88 100
43 1286.4 29.0 43.4#
58 96.6 56.4 84.6#



#50
Toluene-d8
Concen: 50.968 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW008635.D
Acq: 12 Feb 2019 20:46

Tgt Ion: 98 Resp: 696403
Ion Ratio Lower Upper
98 100
100 66.7 52.6 78.8

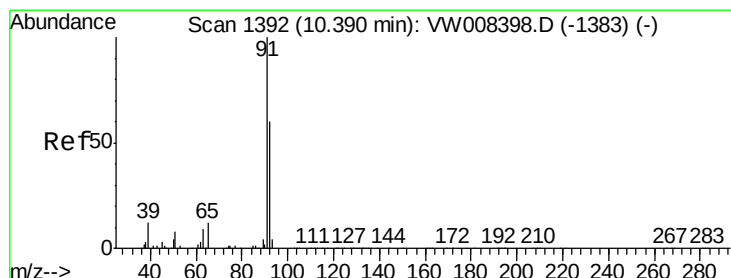
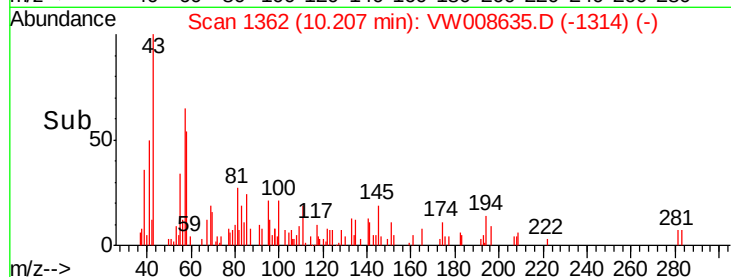
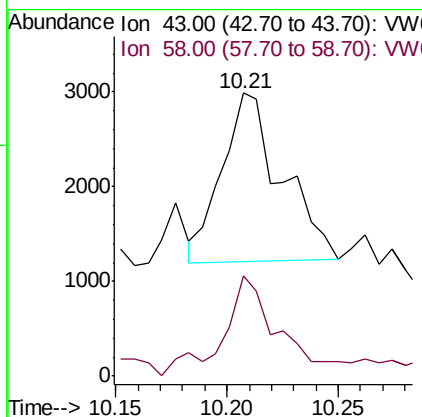
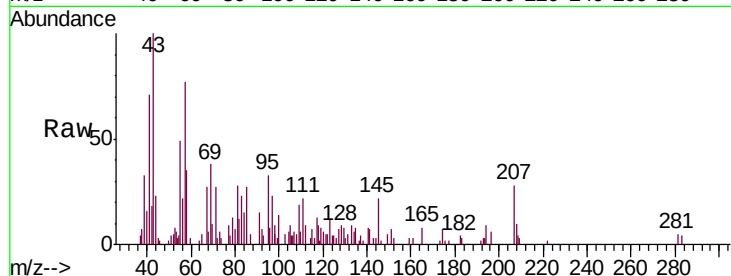




#51
 4-Methyl-2-Pentanone
 Concen: 1.320 ug/l
 RT: 10.21 min Scan# 1362
 Delta R.T. -0.01 min
 Lab File: VW008635.D
 Acq: 12 Feb 2019 20:46

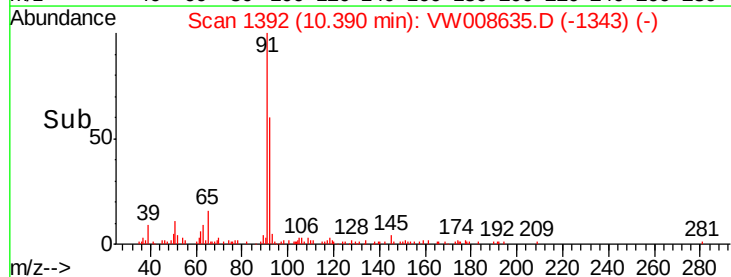
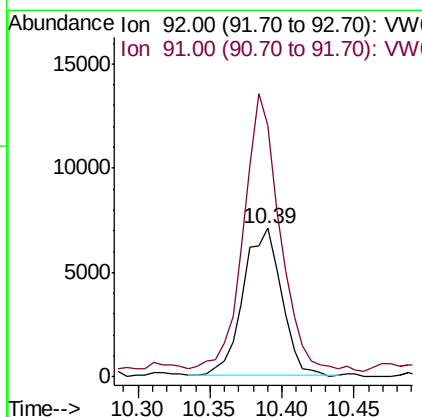
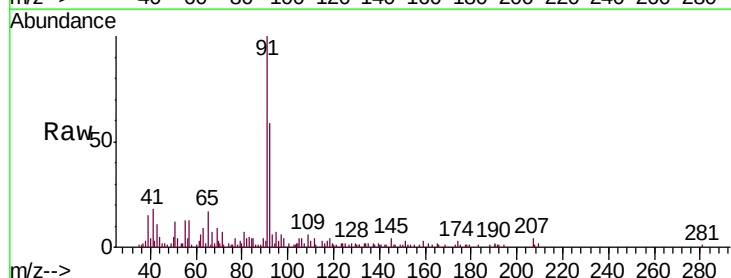
Instrument :
 MSVOA_W
 ClientSampleId :
 JC-02-021119-L

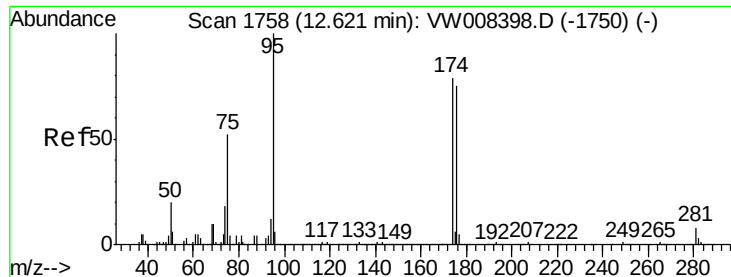
Tgt Ion: 43 Resp: 3299
 Ion Ratio Lower Upper
 43 100
 58 53.8 29.7 44.5#



#52
 Toluene
 Concen: 1.286 ug/l
 RT: 10.39 min Scan# 1392
 Delta R.T. 0.00 min
 Lab File: VW008635.D
 Acq: 12 Feb 2019 20:46

Tgt Ion: 92 Resp: 12967
 Ion Ratio Lower Upper
 92 100
 91 178.7 135.5 203.3

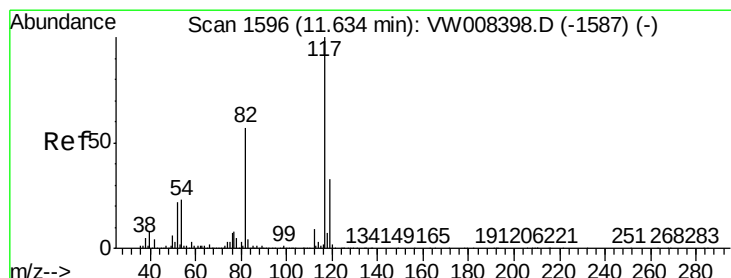
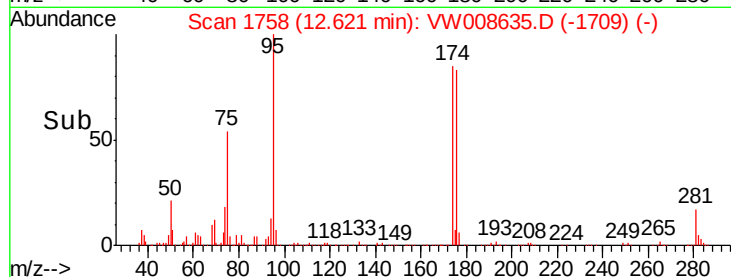
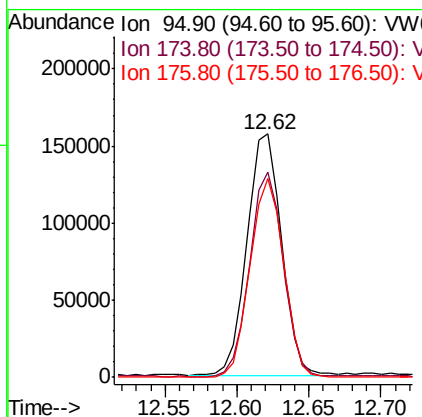
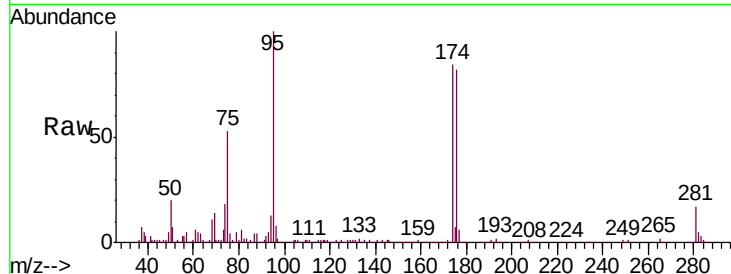




#62
4-Bromofluorobenzene
Concen: 49.286 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.00 min
Lab File: VW008635.D
Acq: 12 Feb 2019 20:46

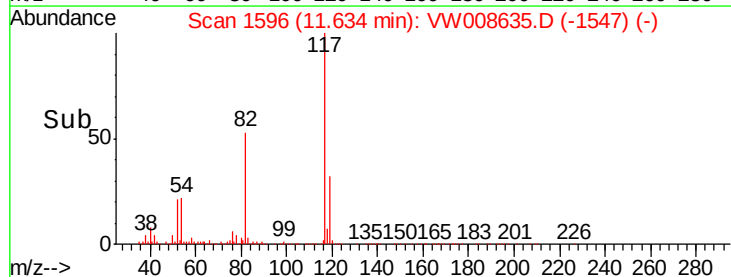
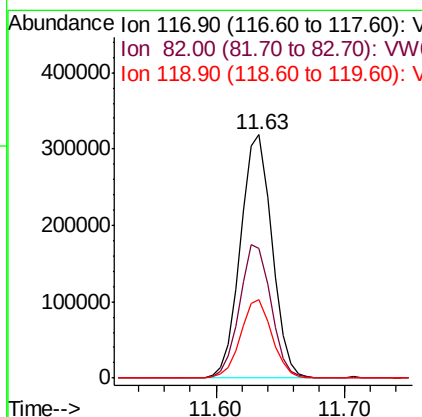
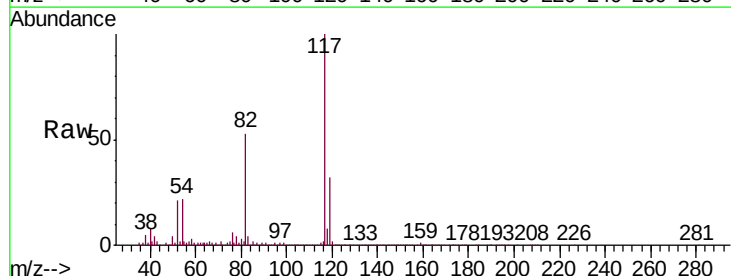
Instrument :
MSVOA_W
ClientSampleId :
JC-02-021119-L

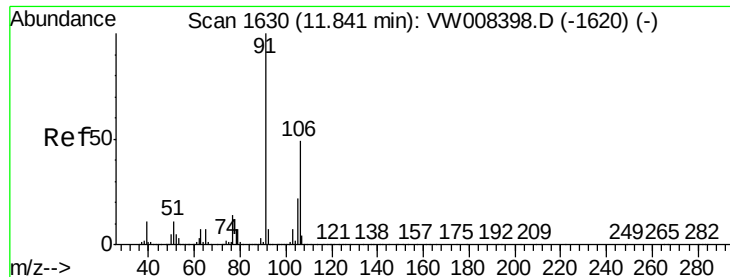
Tgt Ion	Ratio	Lower	Upper
95	100		
174	82.6	0.0	157.6
176	80.6	0.0	151.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW008635.D
Acq: 12 Feb 2019 20:46

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.0	45.4	68.0
119	31.9	26.2	39.4

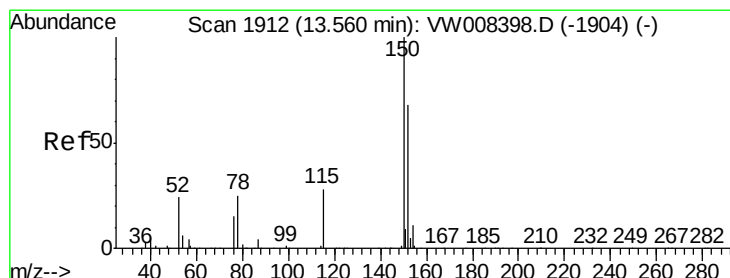
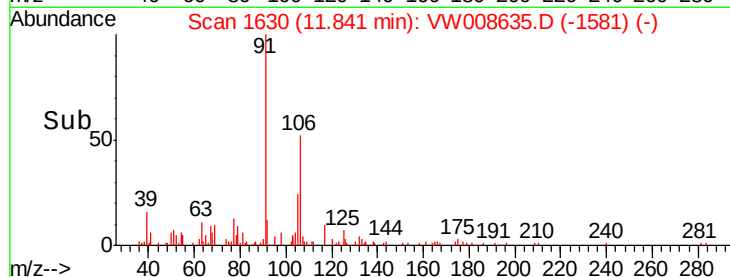
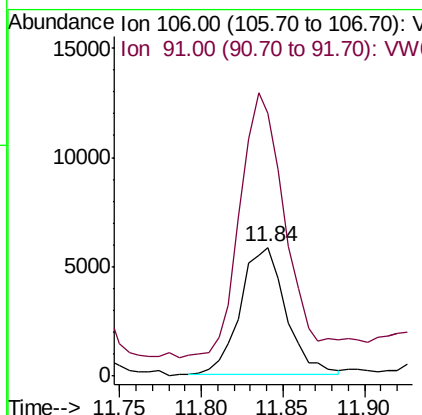
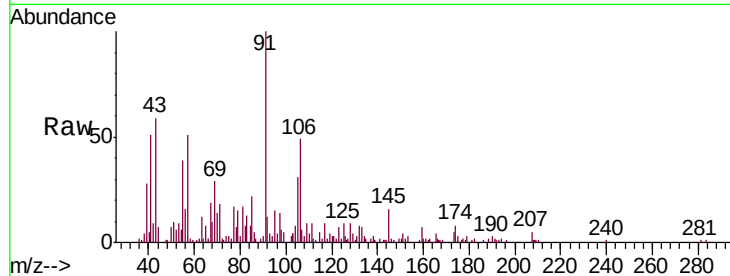




#68
m/p-Xylenes
Concen: 1.446 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW008635.D
Acq: 12 Feb 2019 20:46

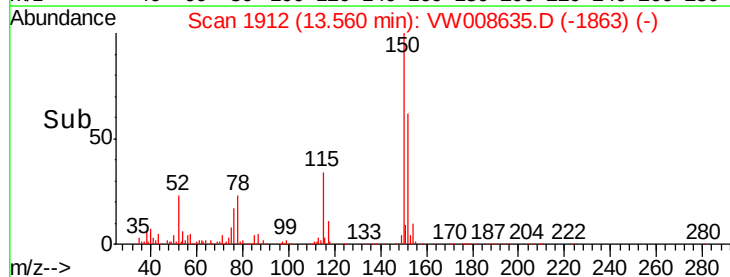
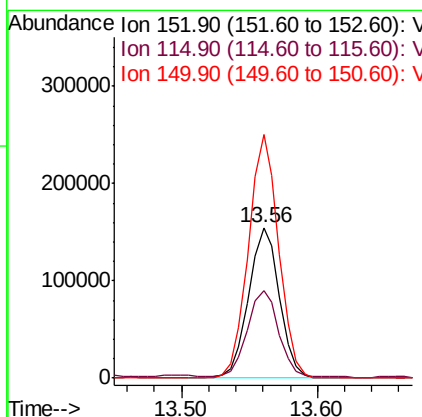
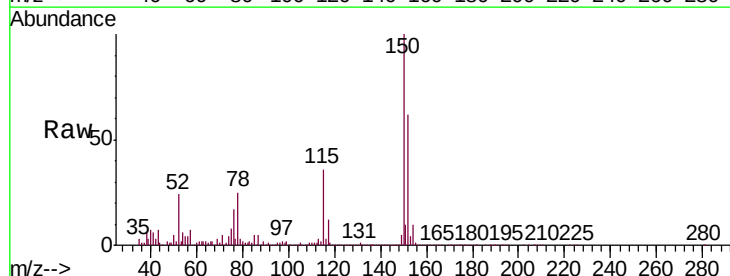
Instrument :
MSVOA_W
ClientSampleId :
JC-02-021119-L

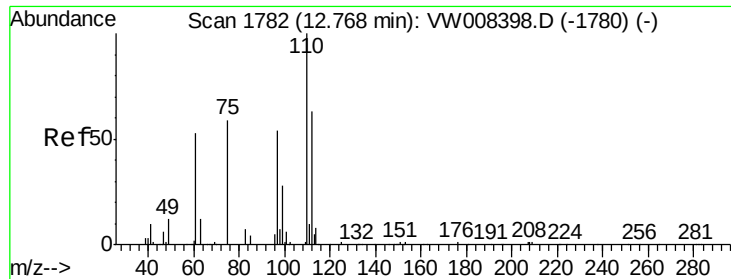
Tgt Ion:106 Resp: 11306
Ion Ratio Lower Upper
106 100
91 208.5 162.9 244.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW008635.D
Acq: 12 Feb 2019 20:46

Tgt Ion:152 Resp: 245646
Ion Ratio Lower Upper
152 100
115 59.4 29.9 89.7
150 158.2 0.0 351.4

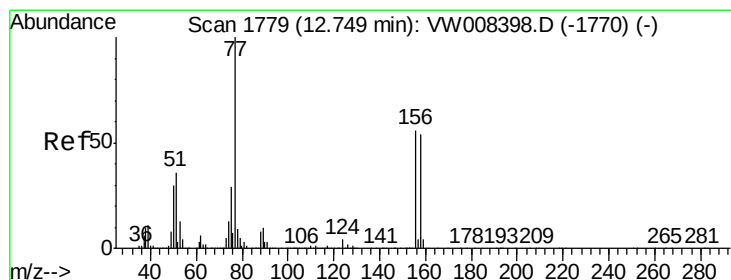
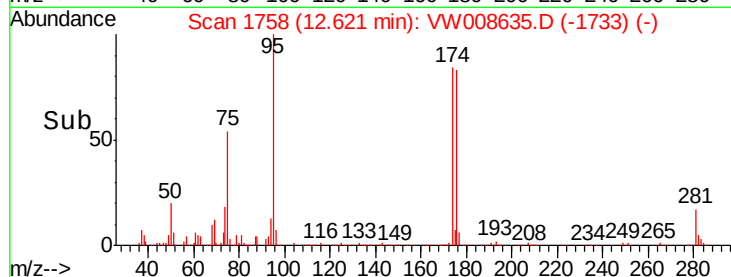
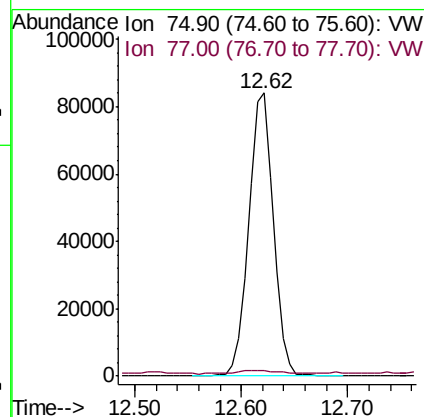
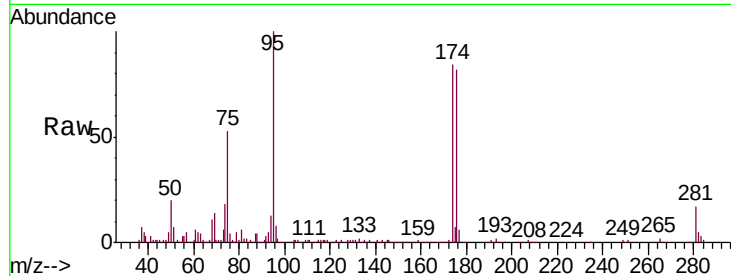




#76
 1,2,3-Trichloropropane
 Concen: 64.124 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.15 min
 Lab File: VW008635.D
 Acq: 12 Feb 2019 20:46

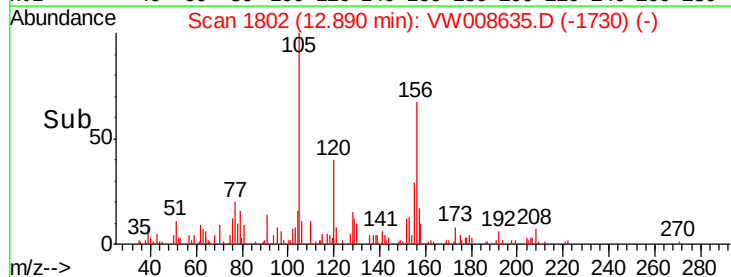
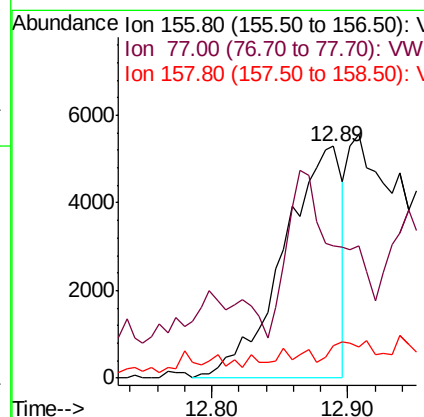
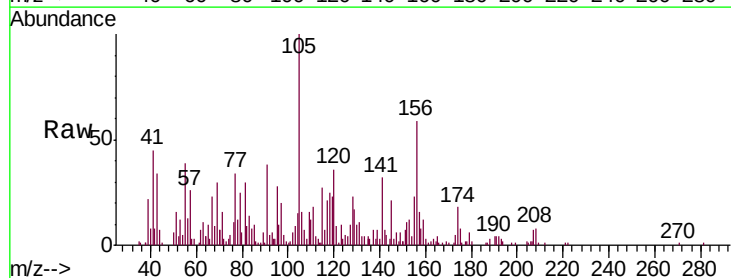
Instrument :
 MSVOA_W
 ClientSampleId :
 JC-02-021119-L

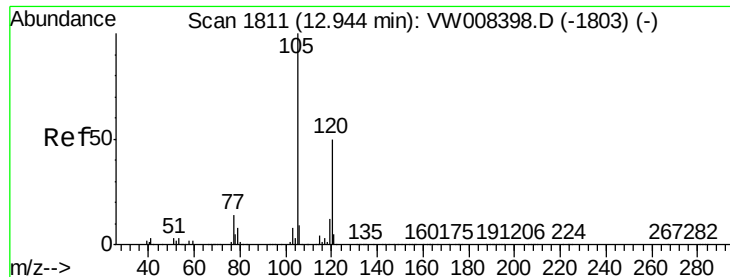
Tgt Ion: 75 Resp: 136950
 Ion Ratio Lower Upper
 75 100
 77 1.6 180.7 542.1#



#77
 Bromobenzene
 Concen: 3.951 ug/l
 RT: 12.89 min Scan# 1802
 Delta R.T. 0.14 min
 Lab File: VW008635.D
 Acq: 12 Feb 2019 20:46

Tgt Ion: 156 Resp: 15801
 Ion Ratio Lower Upper
 156 100
 77 0.0 96.9 290.7#
 158 0.0 48.8 146.4#





#80

1,3,5-Trimethylbenzene

Concen: 1.502 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW008635.D

Acq: 12 Feb 2019 20:46

Instrument :

MSVOA_W

ClientSampleId :

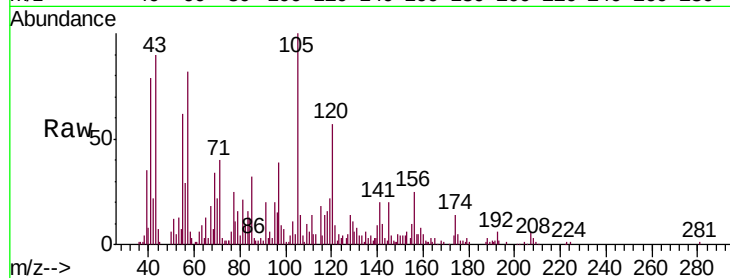
JC-02-021119-L

Tgt Ion: 105 Resp: 22998

Ion Ratio Lower Upper

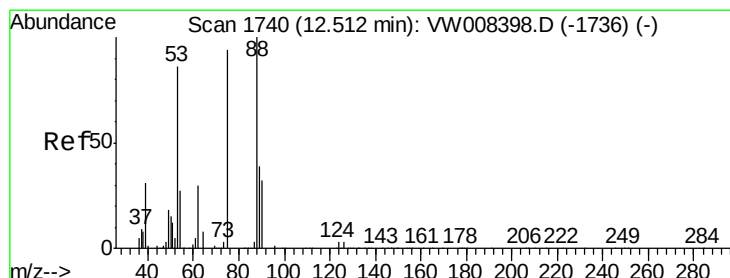
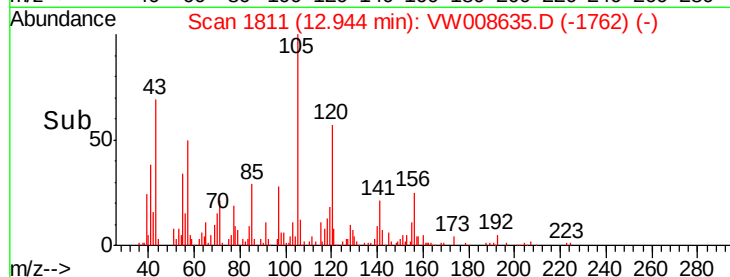
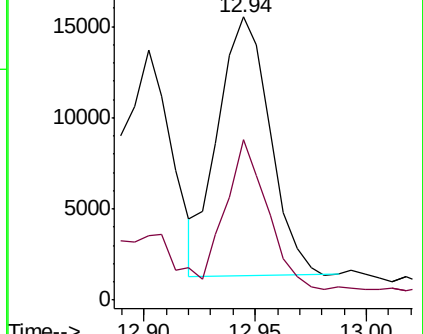
105 100

120 47.4 24.6 73.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 126.649 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008635.D

Acq: 12 Feb 2019 20:46

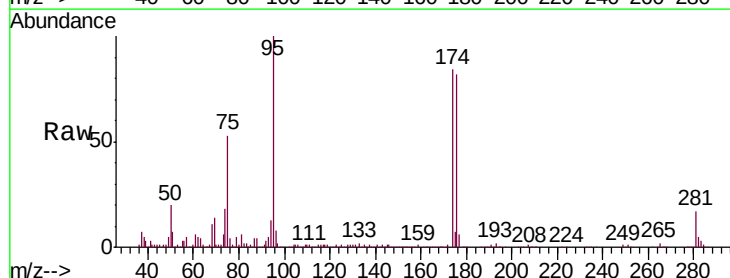
Tgt Ion: 75 Resp: 136950

Ion Ratio Lower Upper

75 100

53 0.4 76.0 114.0#

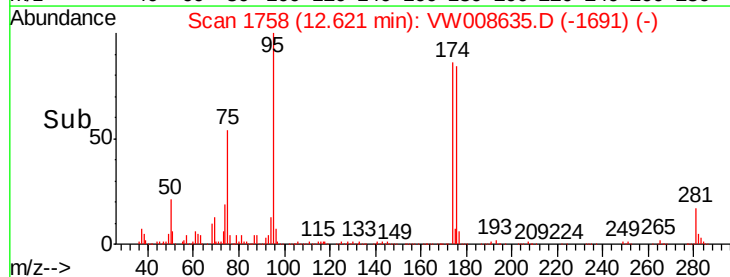
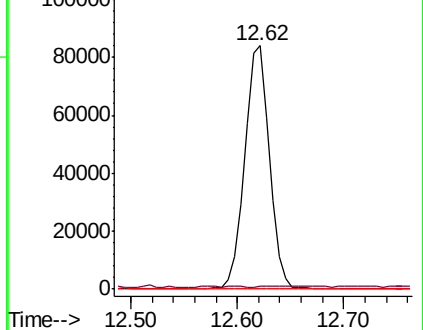
89 0.0 35.4 53.0#

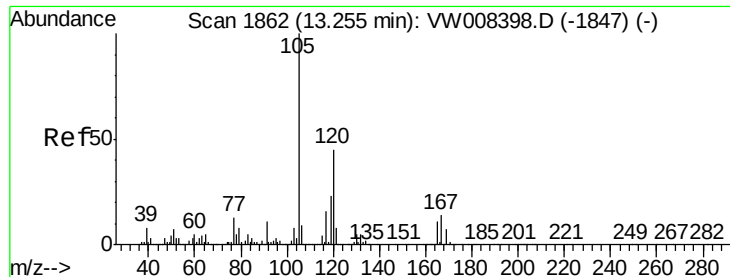


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW





#84

1,2,4-Trimethylbenzene

Concen: 6.450 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. 0.00 min

Lab File: VW008635.D

Acq: 12 Feb 2019 20:46

Instrument :

MSVOA_W

ClientSampleId :

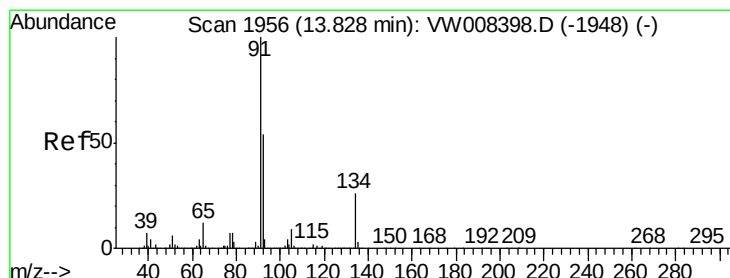
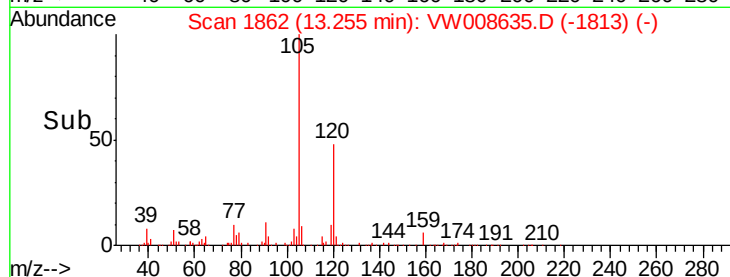
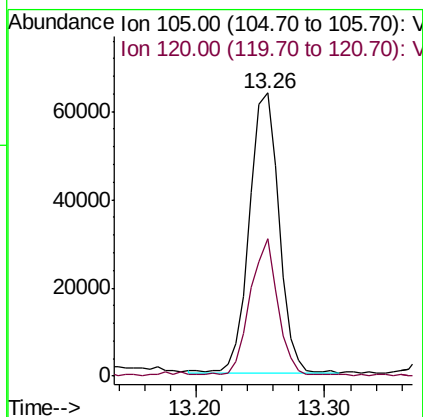
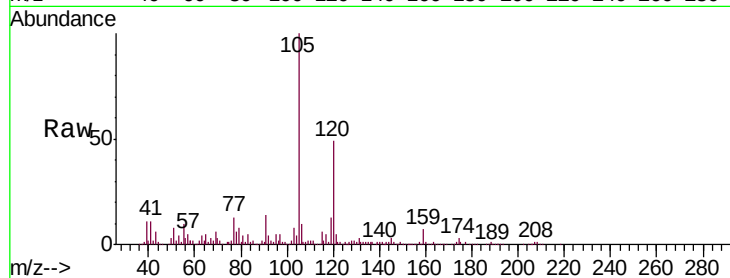
JC-02-021119-L

Tgt Ion: 105 Resp: 100352

Ion Ratio Lower Upper

105 100

120 44.9 23.1 69.2



#89

n-Butylbenzene

Concen: 1.997 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VW008635.D

Acq: 12 Feb 2019 20:46

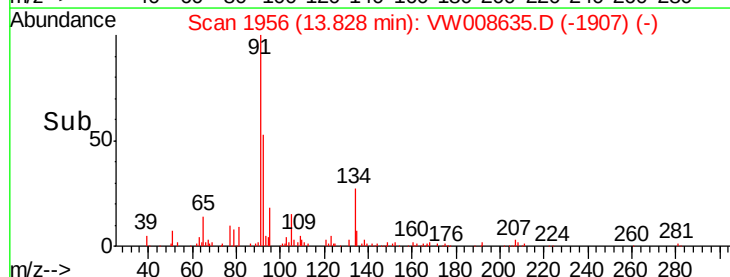
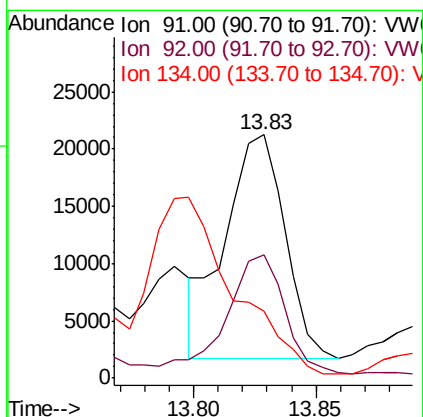
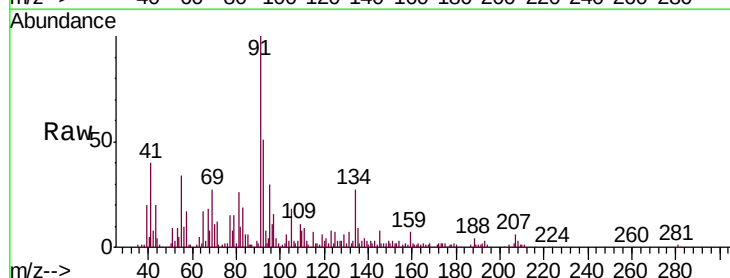
Tgt Ion: 91 Resp: 33415

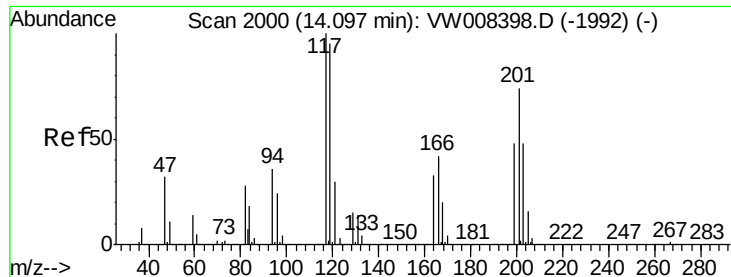
Ion Ratio Lower Upper

91 100

92 52.1 27.4 82.2

134 0.0 13.0 39.0#

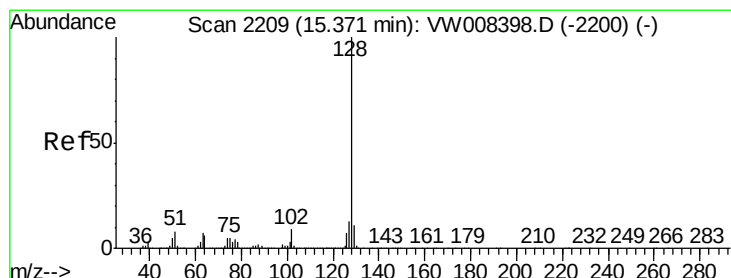
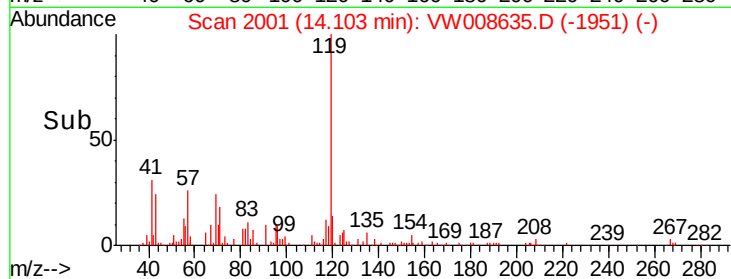
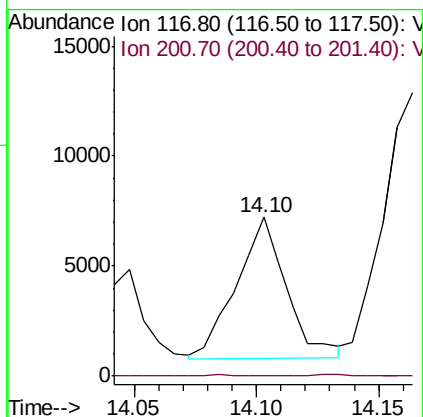
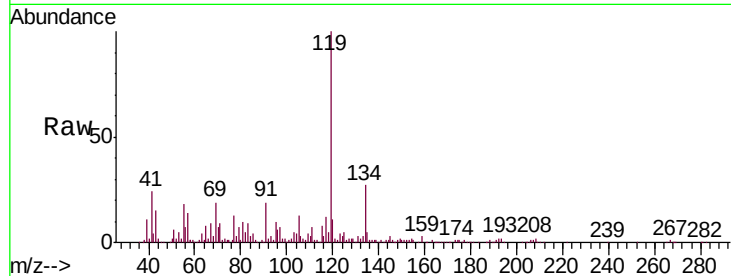




#90
Hexachloroethane
Concen: 2.753 ug/l
RT: 14.10 min Scan# 2001
Delta R.T. 0.01 min
Lab File: VW008635.D
Acq: 12 Feb 2019 20:46

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

Tgt Ion:117 Resp: 9175
Ion Ratio Lower Upper
117 100
201 0.3 39.1 117.5#



#95
Naphthalene
Concen: 4.407 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW008635.D
Acq: 12 Feb 2019 20:46

Tgt Ion:128 Resp: 39462
Ion Ratio Lower Upper
128 100
127 13.2 10.6 15.8
129 8.1 8.7 13.1#

