

Data File : VW008636.D
Acq On : 12 Feb 2019 21:13
Operator : SY/VA
Sample : K1343-25RE
Misc : 5.35G/5ML/MSVOA_W/SOIL
ALS Vial : 24 Sample Multiplier: 1

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

Quant Time: Feb 13 00:26:08 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	396462	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	649112	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	611771	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	296806	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	227987	58.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.08%	
35) Dibromofluoromethane	7.88	113	206656	54.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.90%	
50) Toluene-d8	10.32	98	784542	51.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.10%	
62) 4-Bromofluorobenzene	12.62	95	298830	51.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.16%	

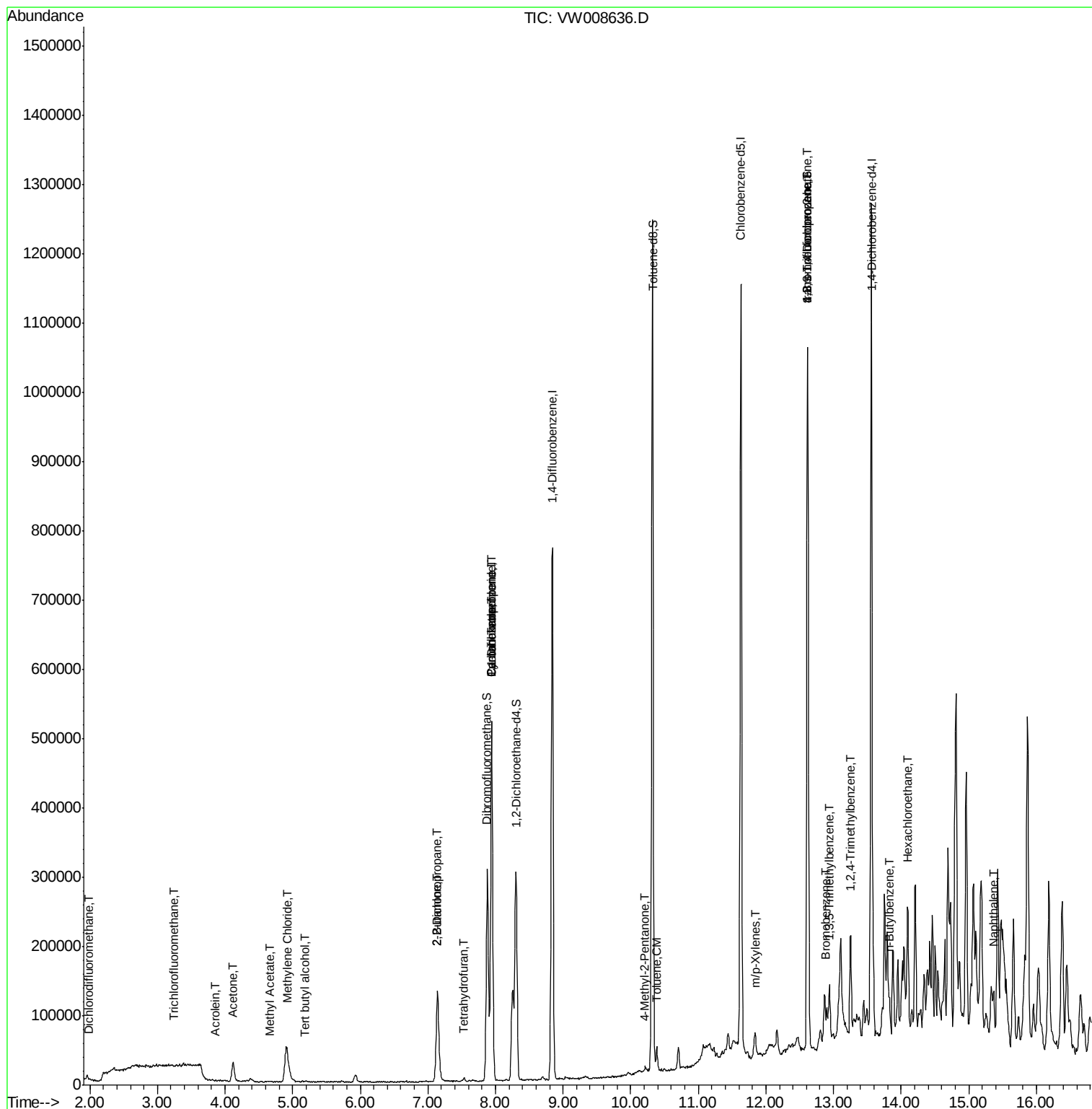
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.00	85	161	3.318	ug/l #	41
7) Trichlorofluoromethane	3.24	101	173	4.769	ug/l #	20
11) Tert butyl alcohol	5.18	59	2125	6.777	ug/l	95
13) Acrolein	3.85	56	82	4.477	ug/l #	1
16) Acetone	4.12	43	49467	56.556	ug/l	96
18) Methyl Acetate	4.67	43	3049	1.307	ug/l #	72
20) Methylene Chloride	4.92	84	45783	11.357	ug/l	95
25) 2-Butanone	7.15	43	12621	10.389	ug/l #	87
26) 2,2-Dichloropropane	7.15	77	9478	1.897	ug/l #	53
29) Tetrahydrofuran	7.53	42	3568	4.635	ug/l #	85
31) Cyclohexane	7.95	56	9930	1.299	ug/l #	17
36) 1,1-Dichloropropene	7.95	75	29973	4.888	ug/l #	51
38) Carbon Tetrachloride	7.95	117	37519	6.081	ug/l #	18
51) 4-Methyl-2-Pentanone	10.21	43	5371	1.929	ug/l	93
52) Toluene	10.39	92	12785	1.138	ug/l	88
68) m/p-Xylenes	11.83	106	10819	1.215	ug/l	95
76) 1,2,3-Trichloropropane	12.62	75	159938	61.979	ug/l #	1
77) Bromobenzene	12.88	156	12873	2.664	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.94	105	25314	1.369	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.62	75	159938	122.413	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.25	105	81333	4.327	ug/l	97
89) n-Butylbenzene	13.83	91	22595	1.118	ug/l #	70
90) Hexachloroethane	14.10	117	8274	2.055	ug/l #	11
95) Naphthalene	15.38	128	25004	2.311	ug/l #	84

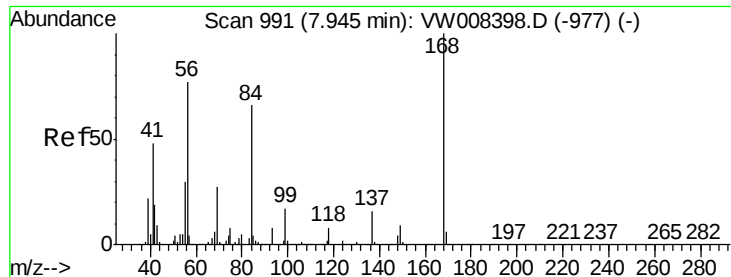
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

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Instrument :

MSVOA_W

ClientSampleId :

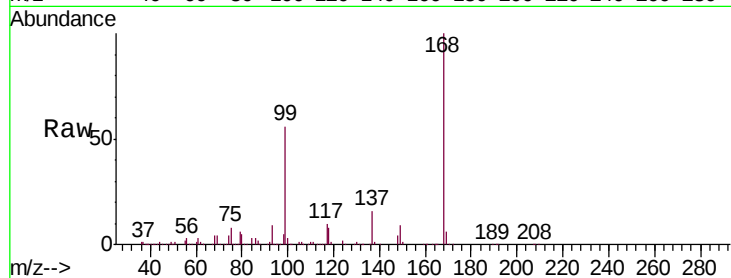
JC-02-021119-M

Tgt Ion:168 Resp: 396462

Ion Ratio Lower Upper

168 100

99 55.9 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

200000

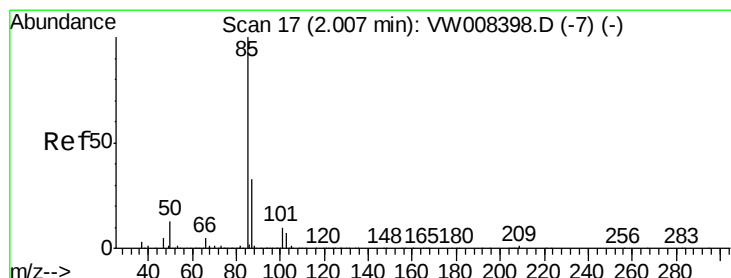
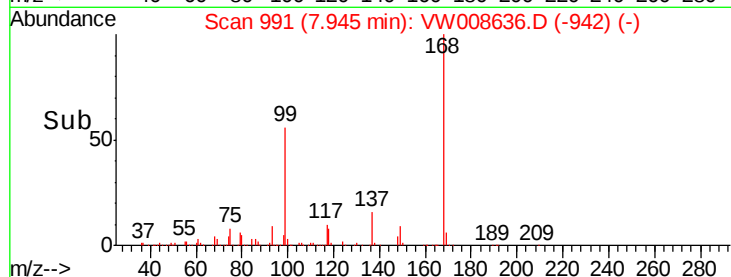
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: 3.318 ug/l

RT: 2.00 min Scan# 15

Delta R.T. -0.01 min

Lab File: VW008636.D

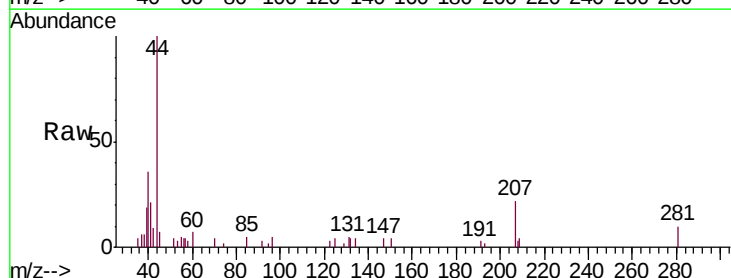
Acq: 12 Feb 2019 21:13

Tgt Ion: 85 Resp: 161

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

2.00

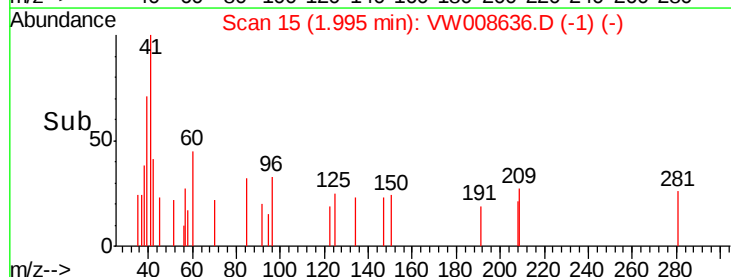
150

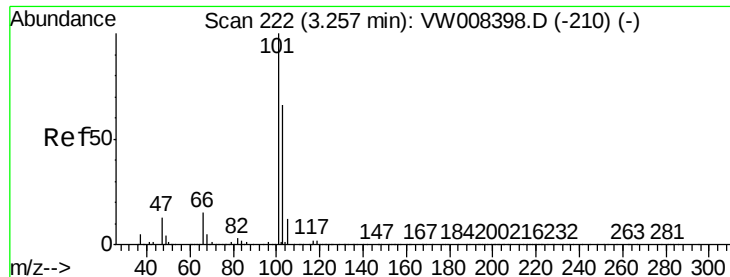
100

50

0

Time--> 1.95 2.00



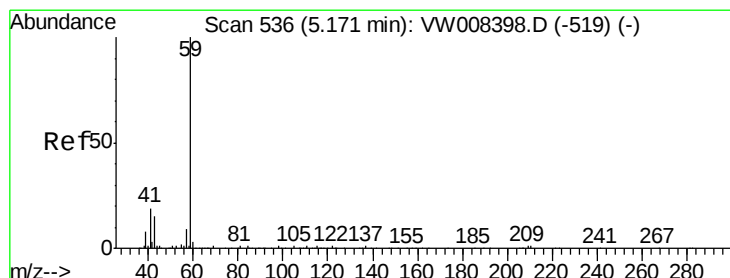
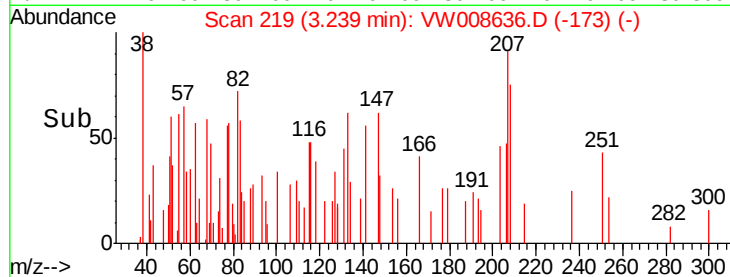
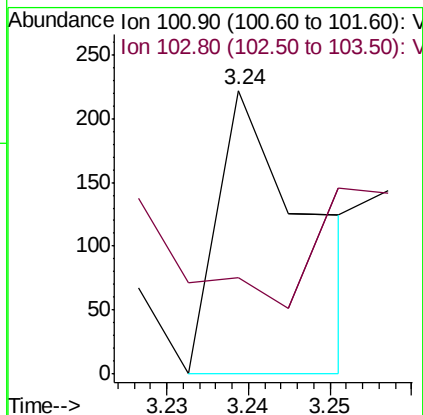
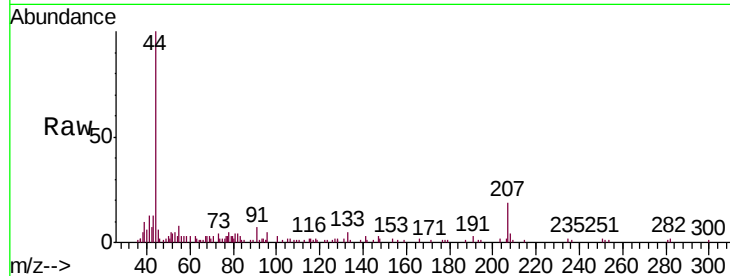


#7

Trichlorofluoromethane
Concen: 4.769 ug/l
RT: 3.24 min Scan# 219
Delta R.T. -0.02 min
Lab File: VW008636.D
Acq: 12 Feb 2019 21:13

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

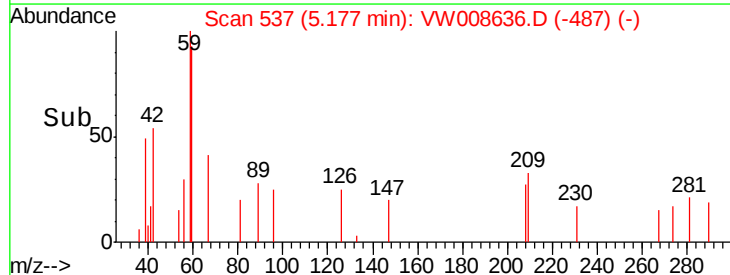
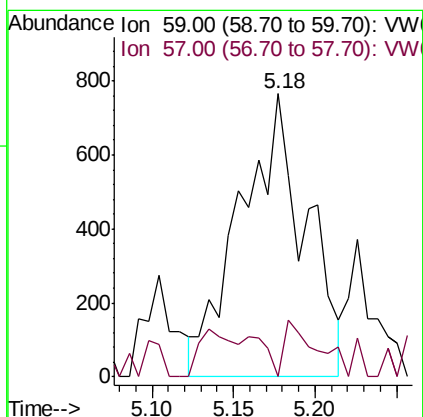
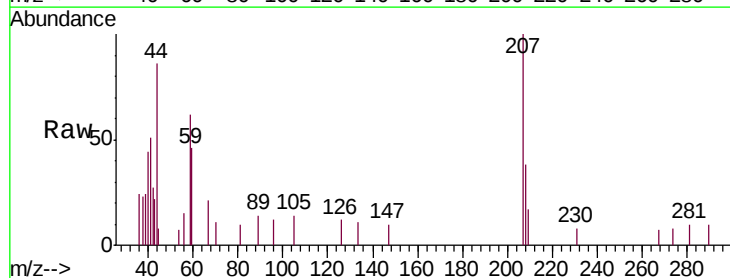
Tgt Ion: 101 Resp: 173
Ion Ratio Lower Upper
101 100
103 1.8 52.5 78.7#

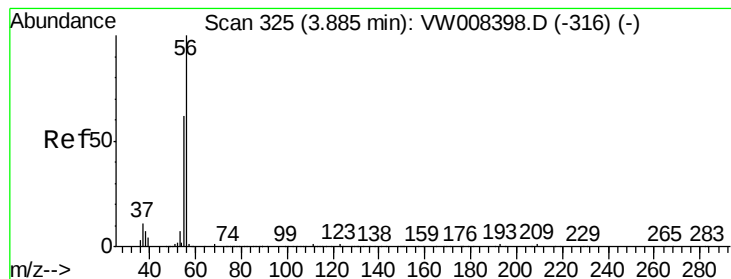


#11

Tert butyl alcohol
Concen: 6.777 ug/l
RT: 5.18 min Scan# 537
Delta R.T. 0.01 min
Lab File: VW008636.D
Acq: 12 Feb 2019 21:13

Tgt Ion: 59 Resp: 2125
Ion Ratio Lower Upper
59 100
57 9.8 9.3 13.9





#13

Acrolein

Concen: 4.477 ug/l

RT: 3.85 min Scan# 320

Delta R.T. -0.03 min

Lab File: VW008636.D

Acq: 12 Feb 2019 21:13

Instrument :

MSVOA_W

ClientSampleId :

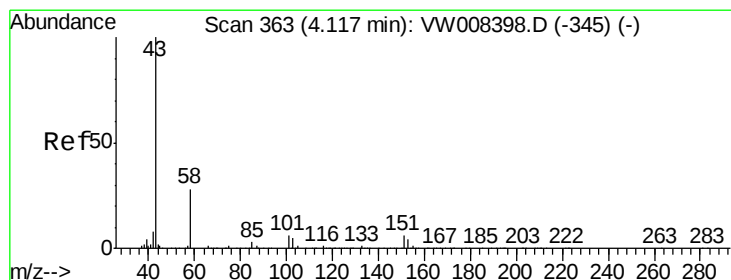
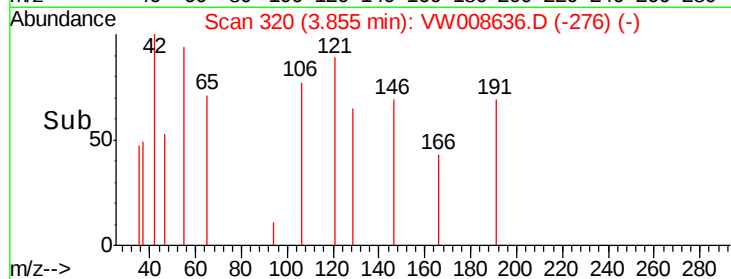
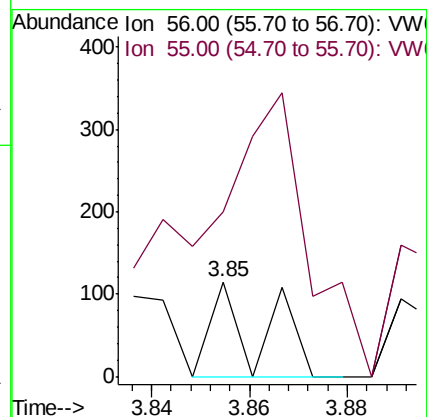
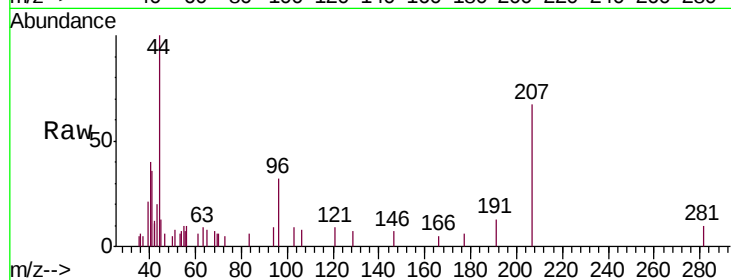
JC-02-021119-M

Tgt Ion: 56 Resp: 82

Ion Ratio Lower Upper

56 100

55 681.7 56.7 85.1#



#16

Acetone

Concen: 56.556 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW008636.D

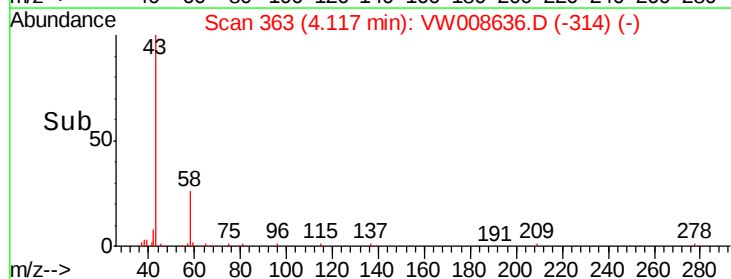
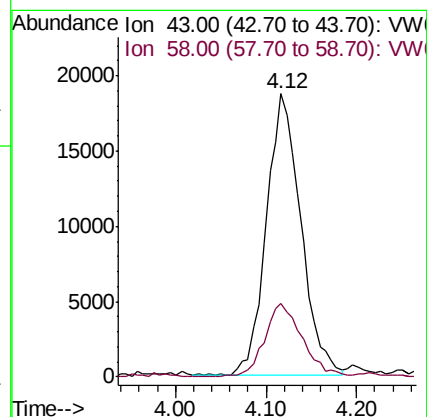
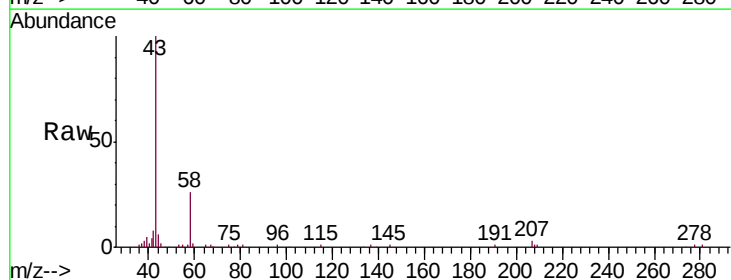
Acq: 12 Feb 2019 21:13

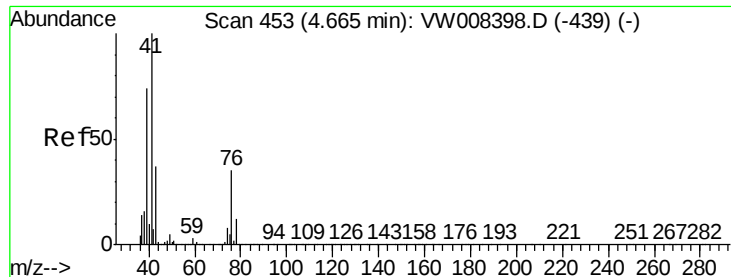
Tgt Ion: 43 Resp: 49467

Ion Ratio Lower Upper

43 100

58 26.2 22.6 34.0

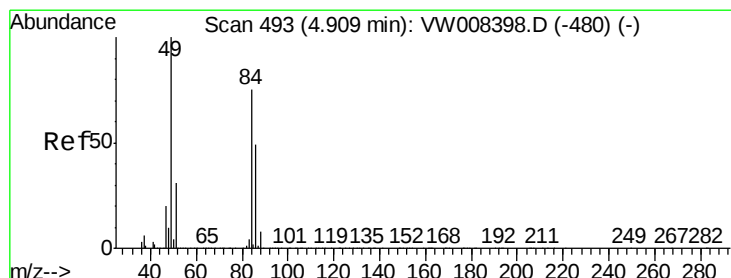
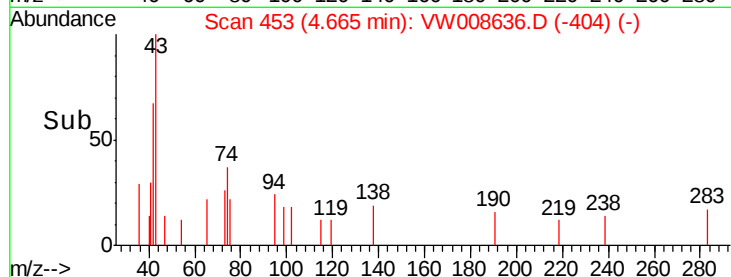
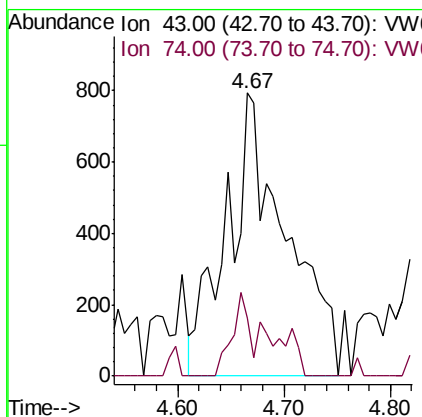
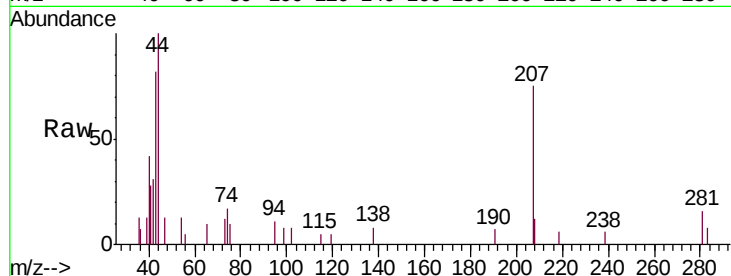




#18
Methyl Acetate
Concen: 1.307 ug/l
RT: 4.67 min Scan# 453
Delta R.T. -0.00 min
Lab File: VW008636.D
Acq: 12 Feb 2019 21:13

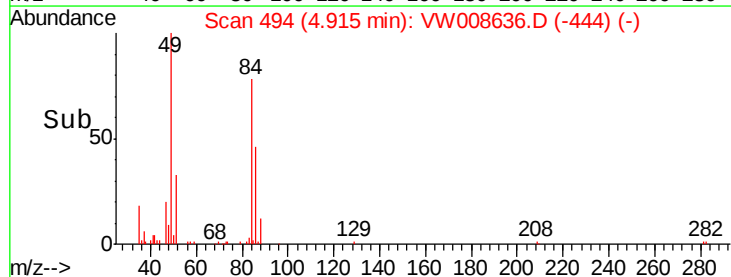
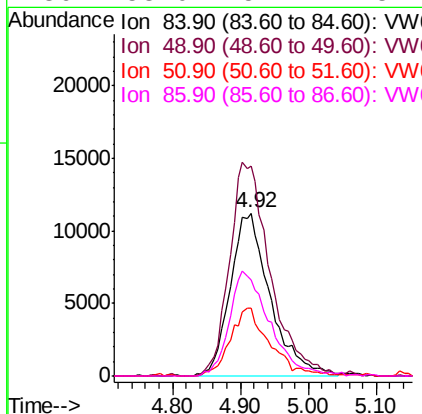
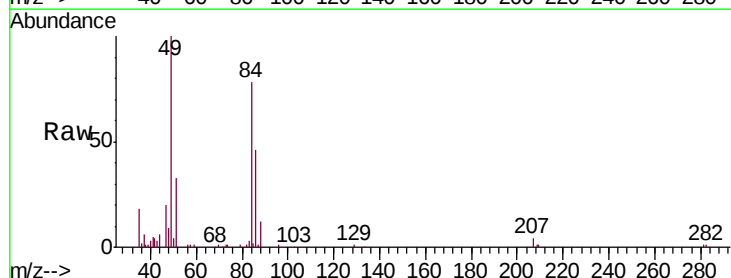
Instrument :
MSVOA_W
ClientSampleId :
JC-02-021119-M

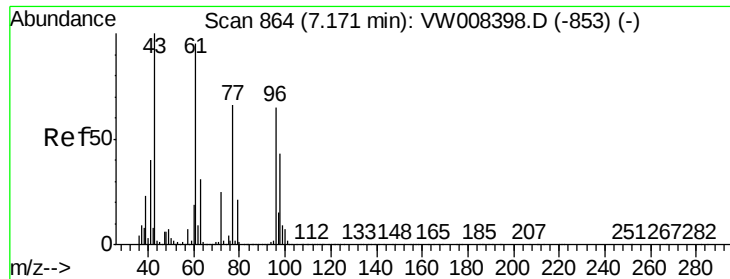
Tgt Ion: 43 Resp: 3049
Ion Ratio Lower Upper
43 100
74 8.6 17.5 26.3#



#20
Methylene Chloride
Concen: 11.357 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW008636.D
Acq: 12 Feb 2019 21:13

Tgt Ion: 84 Resp: 45783
Ion Ratio Lower Upper
84 100
49 128.3 106.8 160.2
51 41.9 32.9 49.3
86 58.0 52.2 78.2





#25

2-Butanone

Concen: 10.389 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW008636.D

Acq: 12 Feb 2019 21:13

Instrument :

MSVOA_W

ClientSampleId :

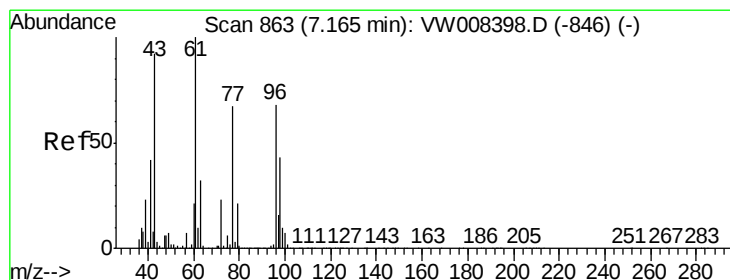
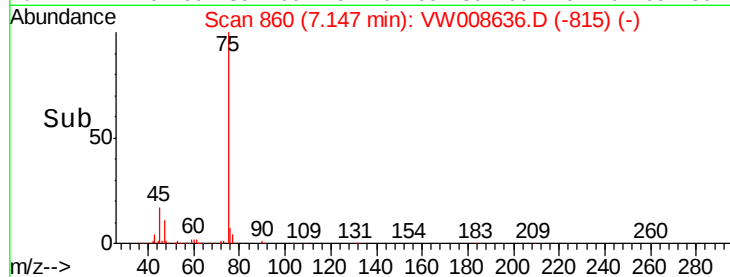
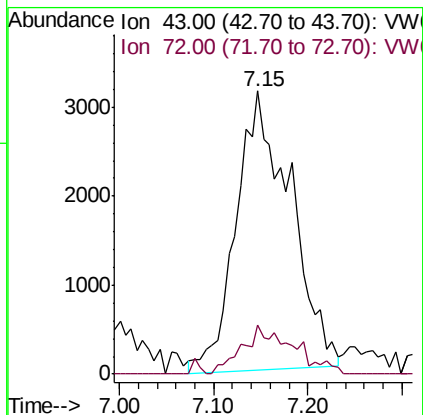
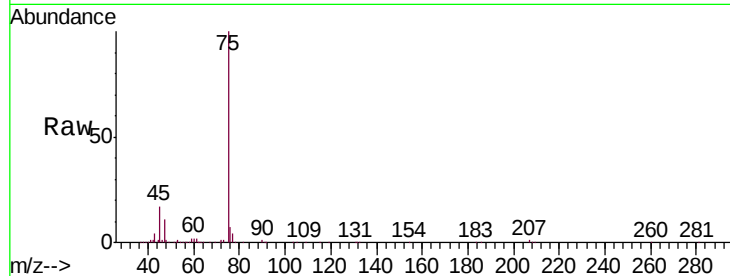
JC-02-021119-M

Tgt Ion: 43 Resp: 12621

Ion Ratio Lower Upper

43 100

72 18.4 20.1 30.1#



#26

2,2-Dichloropropane

Concen: 1.897 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW008636.D

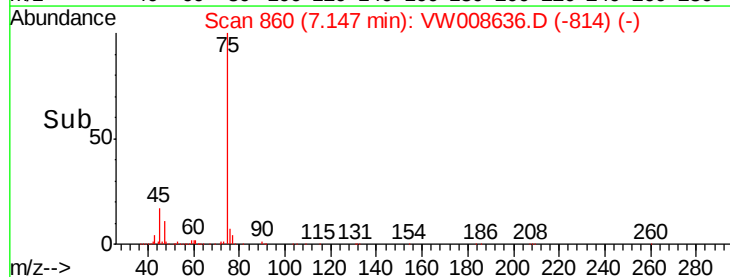
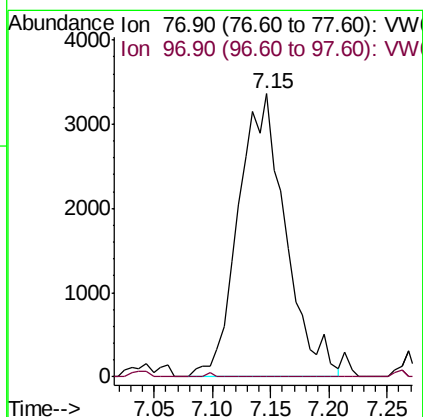
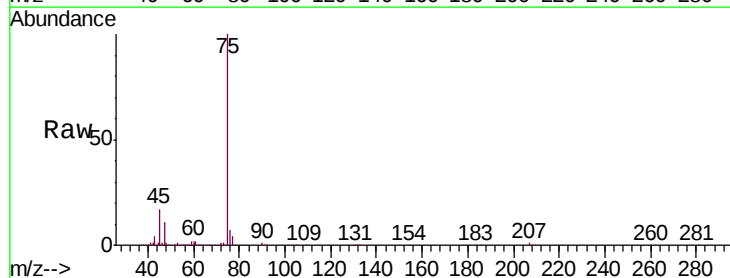
Acq: 12 Feb 2019 21:13

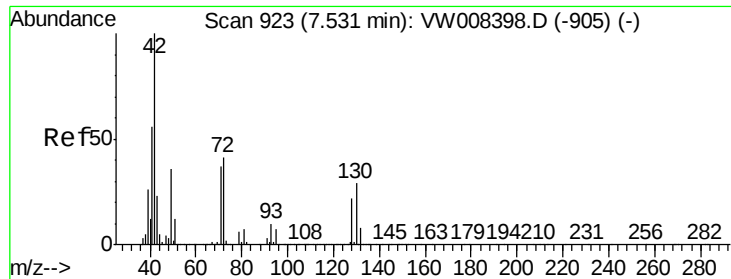
Tgt Ion: 77 Resp: 9478

Ion Ratio Lower Upper

77 100

97 0.0 11.5 34.5#

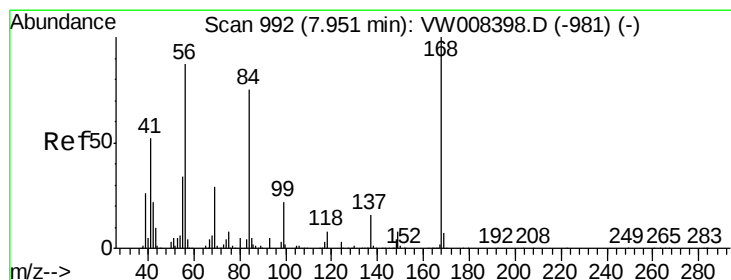
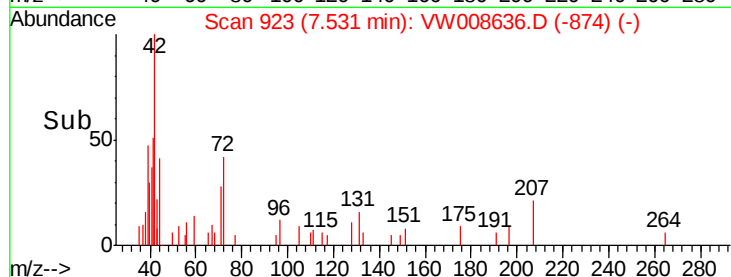
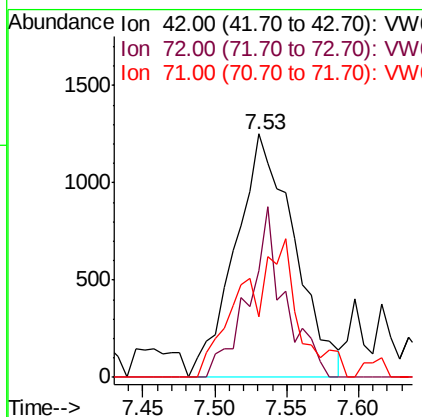
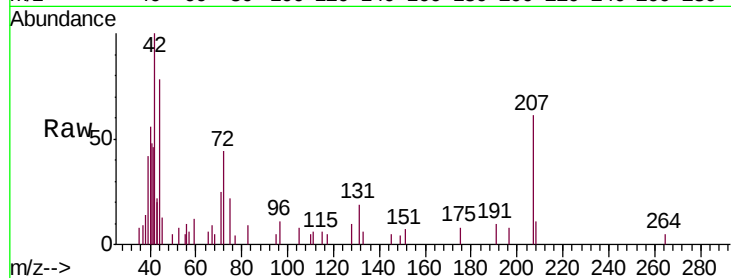




#29
Tetrahydrofuran
Concen: 4.635 ug/l
RT: 7.53 min Scan# 923
Delta R.T. -0.00 min
Lab File: VW008636.D
Acq: 12 Feb 2019 21:13

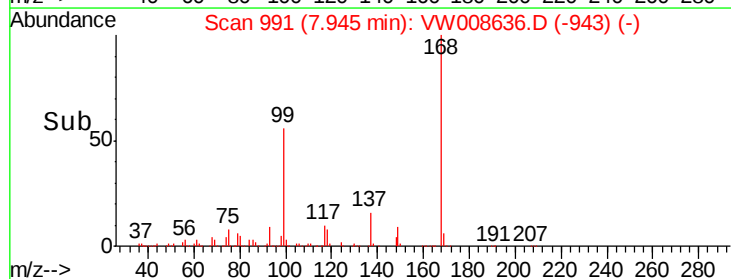
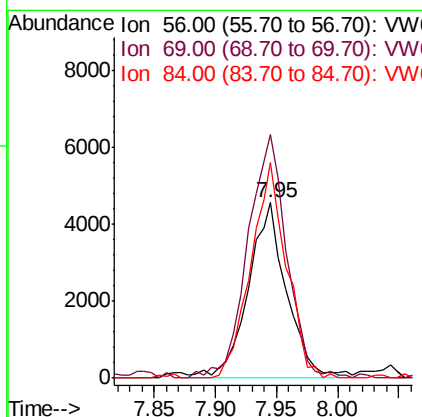
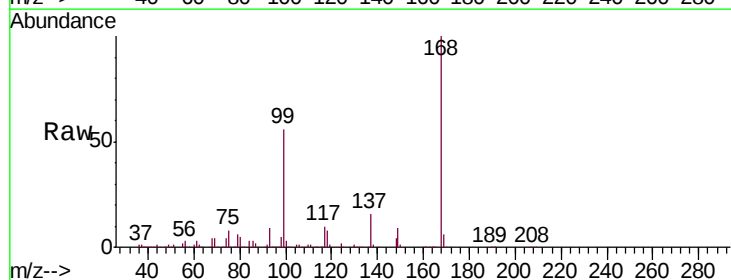
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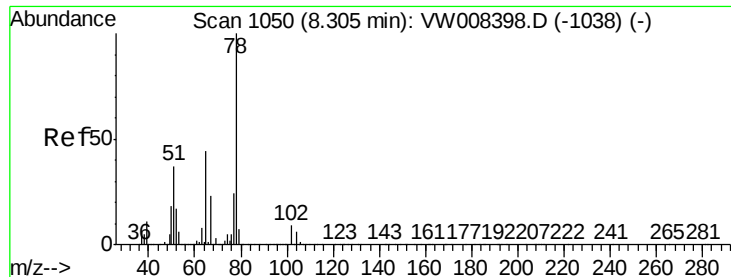
Tgt Ion: 42 Resp: 3568
Ion Ratio Lower Upper
42 100
72 42.7 31.9 47.9
71 53.3 29.9 44.9#



#31
Cyclohexane
Concen: 1.299 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW008636.D
Acq: 12 Feb 2019 21:13

Tgt Ion: 56 Resp: 9930
Ion Ratio Lower Upper
56 100
69 141.3 26.4 39.6#
84 125.0 69.1 103.7#

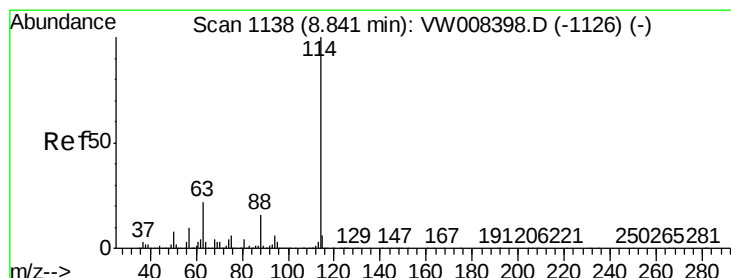
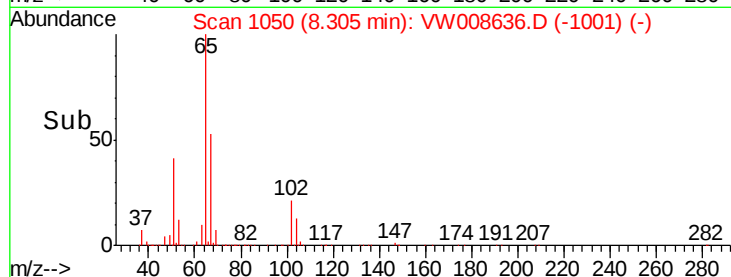
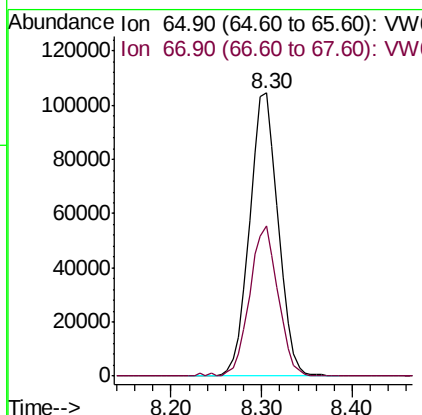
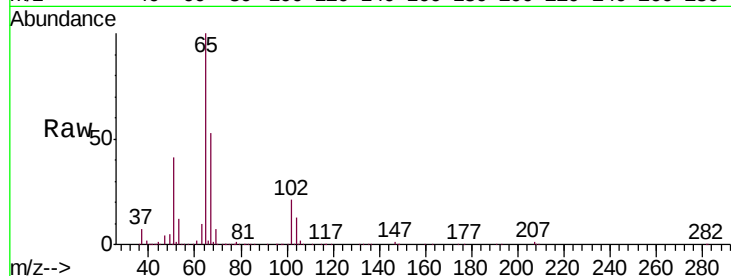




#33
 1,2-Dichloroethane-d4
 Concen: 58.535 ug/l
 RT: 8.30 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW008636.D
 Acq: 12 Feb 2019 21:13

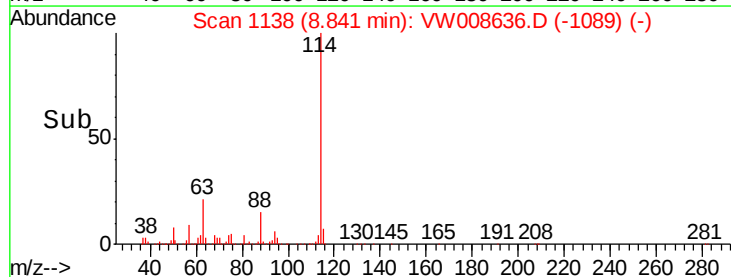
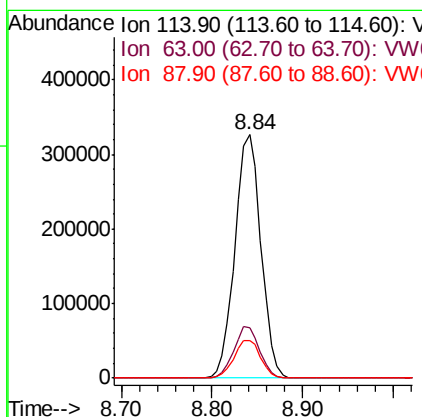
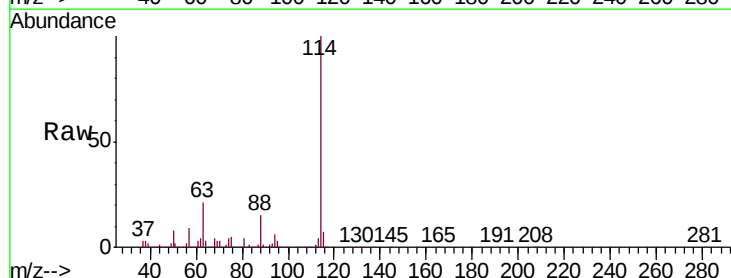
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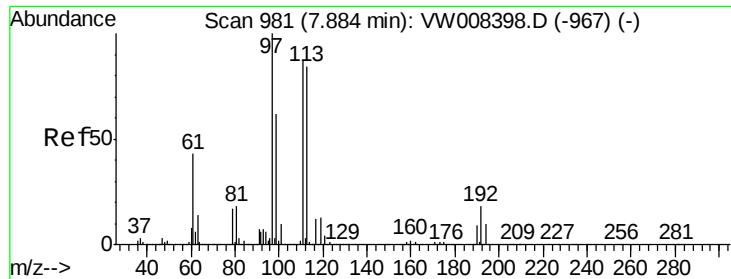
Tgt Ion: 65 Resp: 227987
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW008636.D
 Acq: 12 Feb 2019 21:13

Tgt Ion: 114 Resp: 649112
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 43.6
 88 15.5 0.0 31.8

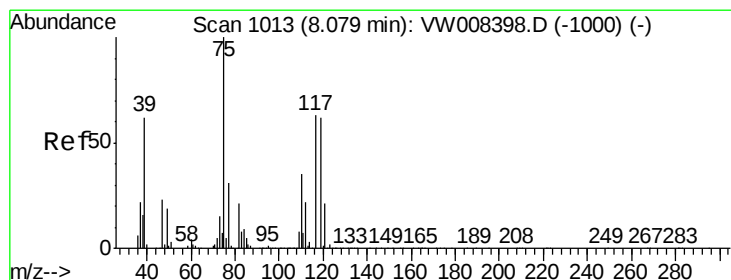
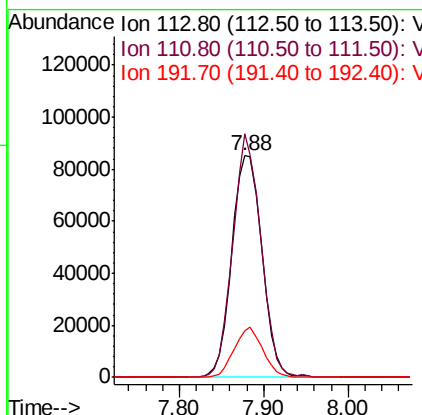
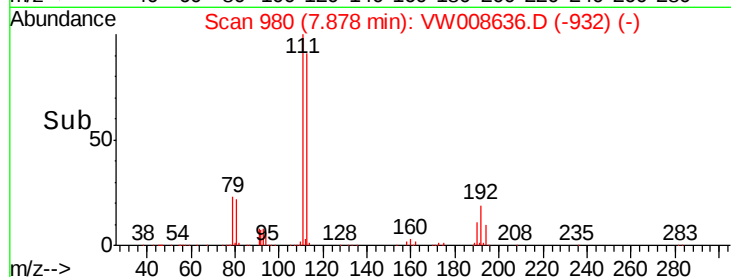
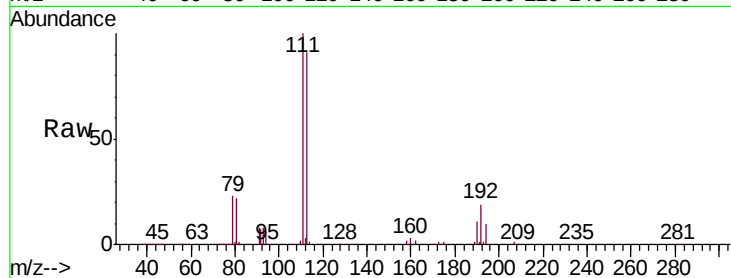




#35
 Dibromofluoromethane
 Concen: 54.446 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.01 min
 Lab File: VW008636.D
 Acq: 12 Feb 2019 21:13

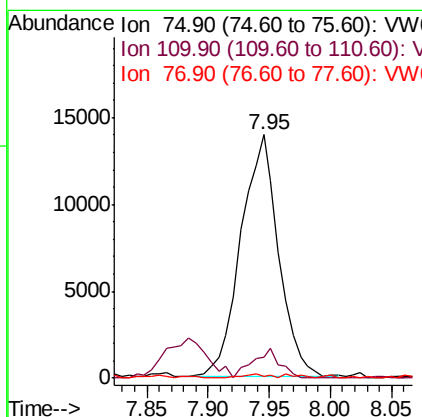
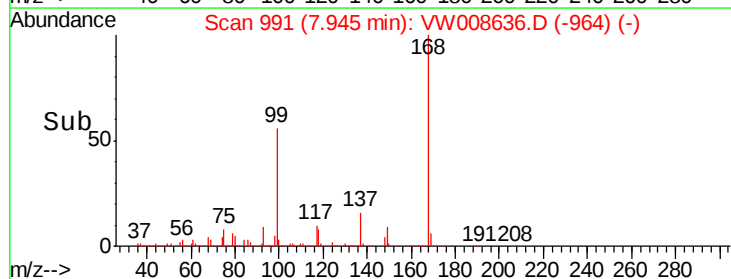
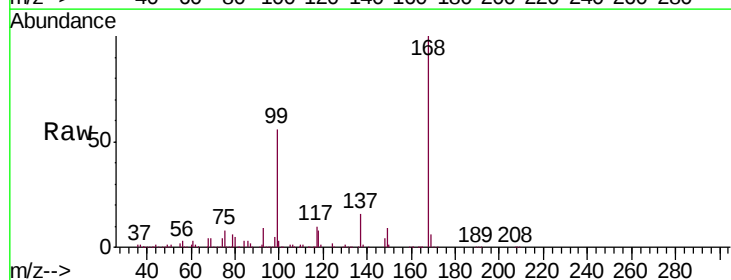
Instrument :
 MSVOA_W
 ClientSampleId :
 JC-02-021119-M

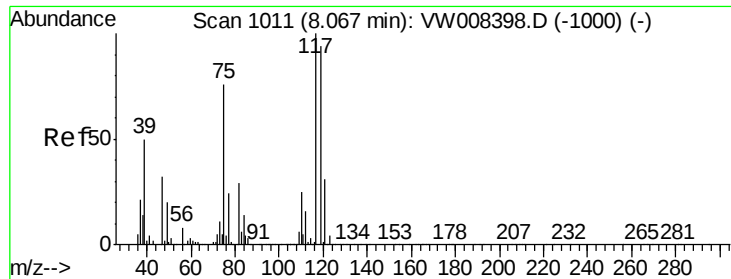
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.0	121.4
192	21.2	16.8	25.2



#36
 1,1-Dichloropropene
 Concen: 4.888 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW008636.D
 Acq: 12 Feb 2019 21:13

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.7	17.3	52.0#
77	1.0	24.7	37.1#





#38

Carbon Tetrachloride

Concen: 6.081 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW008636.D

Acq: 12 Feb 2019 21:13

Instrument :

MSVOA_W

ClientSampleId :

JC-02-021119-M

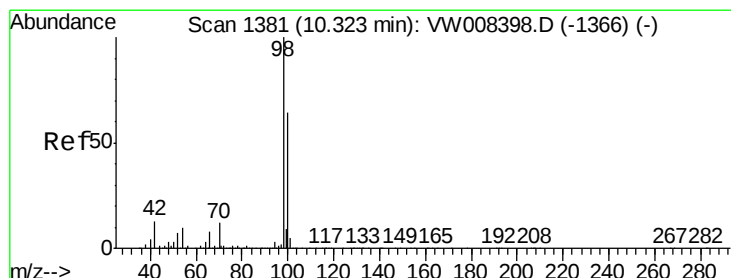
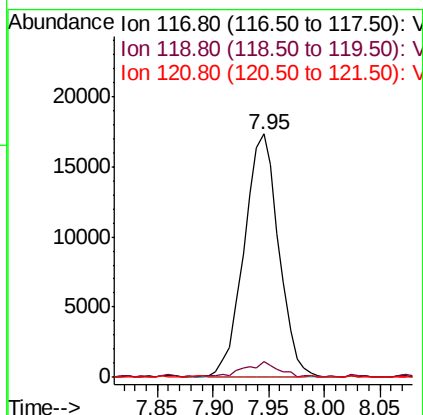
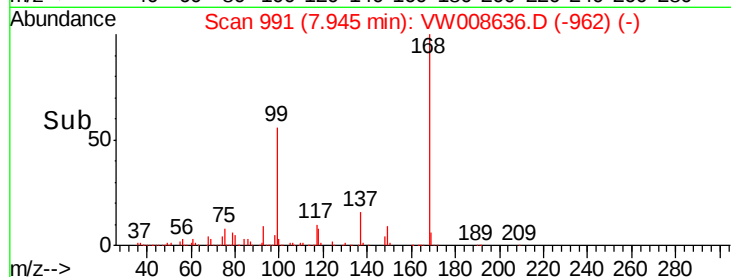
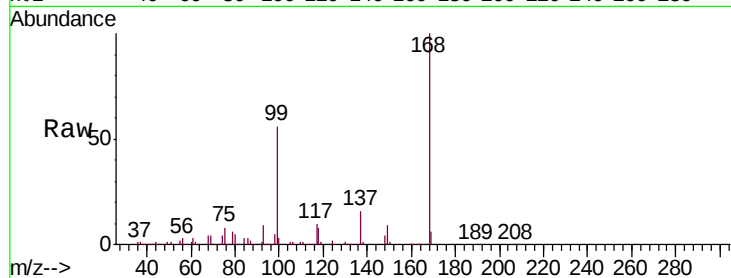
Tgt Ion:117 Resp: 37519

Ion Ratio Lower Upper

117 100

119 6.5 75.0 112.4#

121 0.0 24.9 37.3#



#50

Toluene-d8

Concen: 51.545 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW008636.D

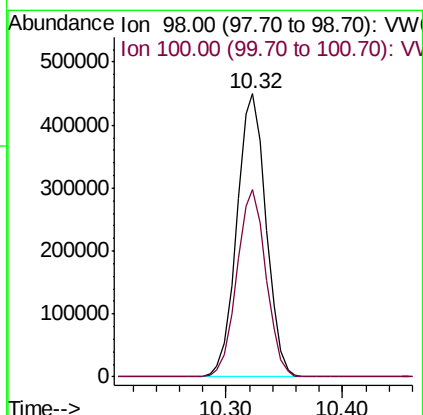
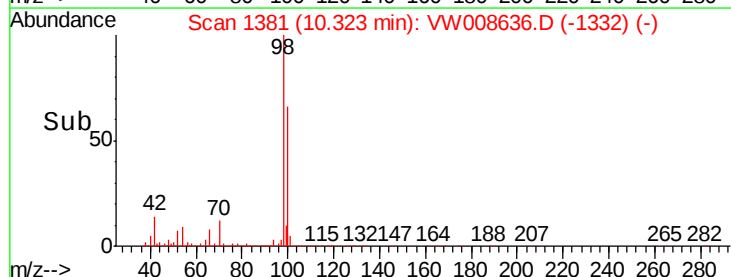
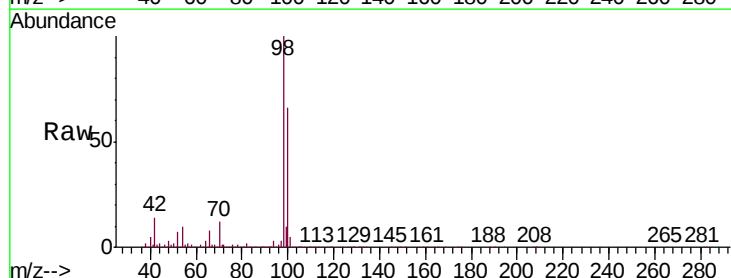
Acq: 12 Feb 2019 21:13

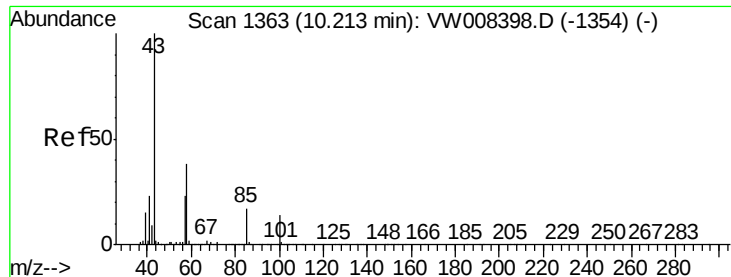
Tgt Ion: 98 Resp: 784542

Ion Ratio Lower Upper

98 100

100 66.3 52.6 78.8

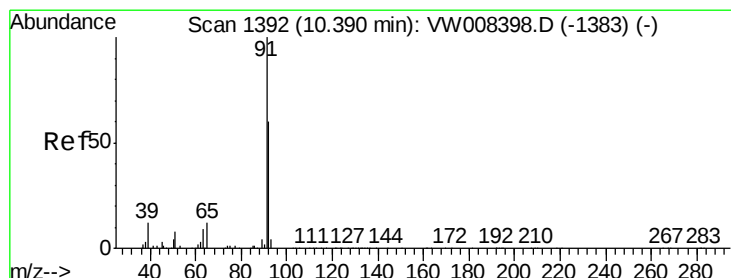
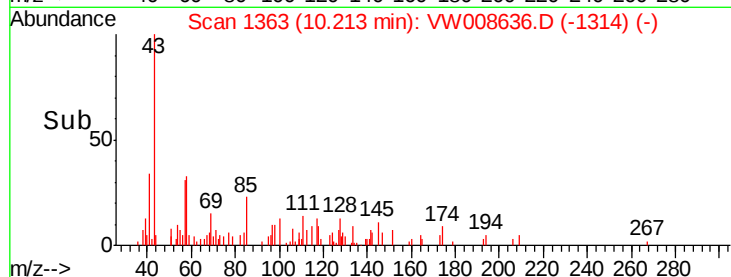
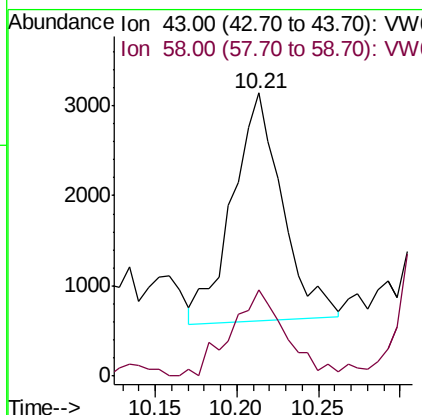
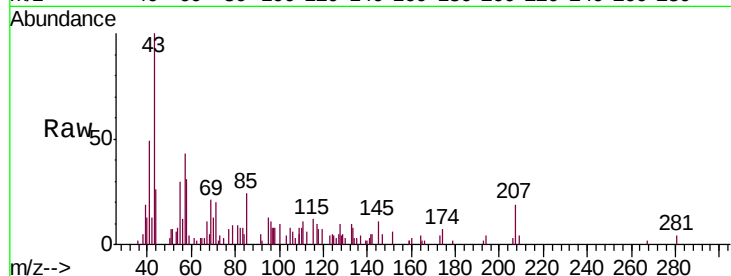




#51
4-Methyl-2-Pentanone
Concen: 1.929 ug/l
RT: 10.21 min Scan# 1363
Delta R.T. -0.00 min
Lab File: VW008636.D
Acq: 12 Feb 2019 21:13

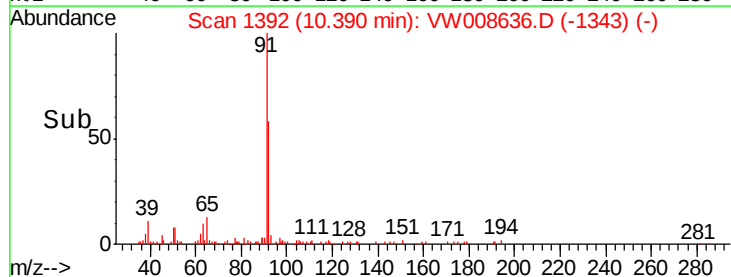
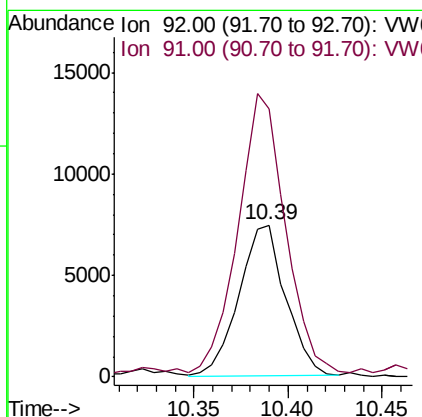
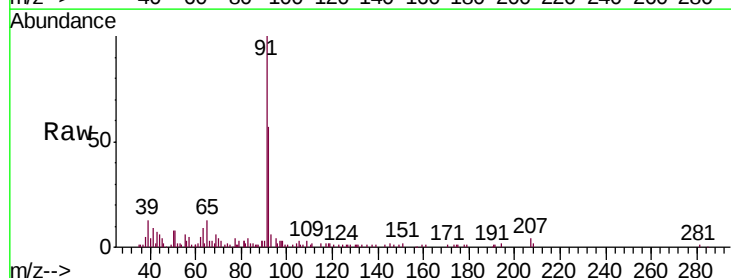
Instrument :
MSVOA_W
ClientSampleId :
JC-02-021119-M

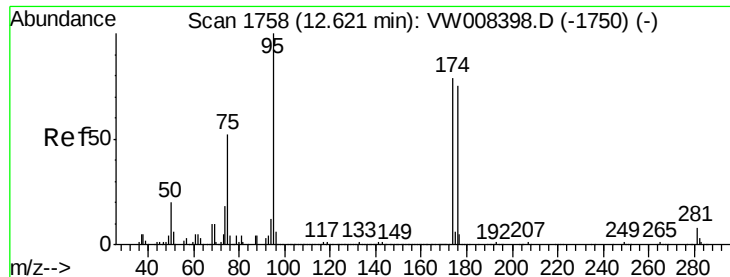
Tgt Ion: 43 Resp: 5371
Ion Ratio Lower Upper
43 100
58 41.5 29.7 44.5



#52
Toluene
Concen: 1.138 ug/l
RT: 10.39 min Scan# 1392
Delta R.T. -0.00 min
Lab File: VW008636.D
Acq: 12 Feb 2019 21:13

Tgt Ion: 92 Resp: 12785
Ion Ratio Lower Upper
92 100
91 186.4 135.5 203.3

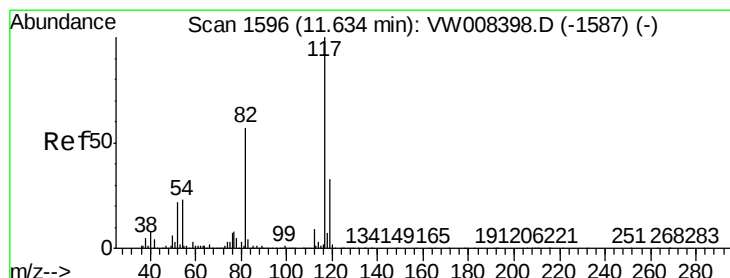
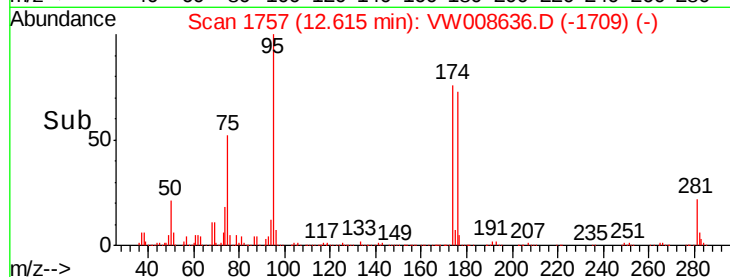
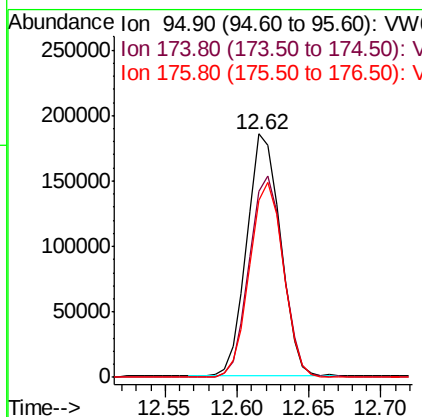
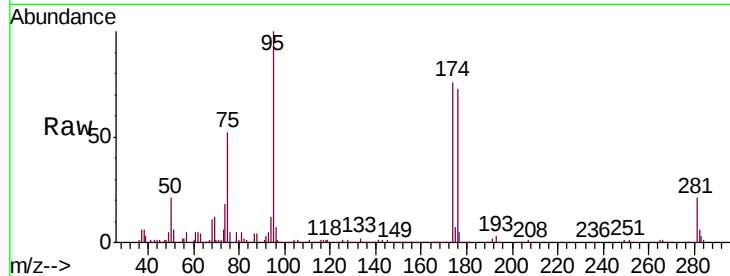




#62
4-Bromofluorobenzene
Concen: 51.078 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.01 min
Lab File: VW008636.D
Acq: 12 Feb 2019 21:13

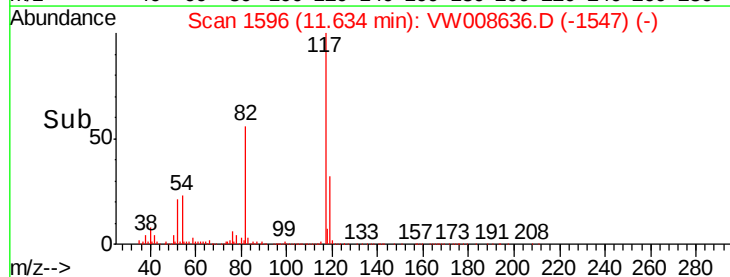
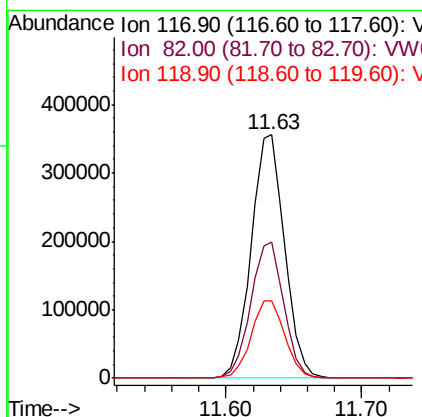
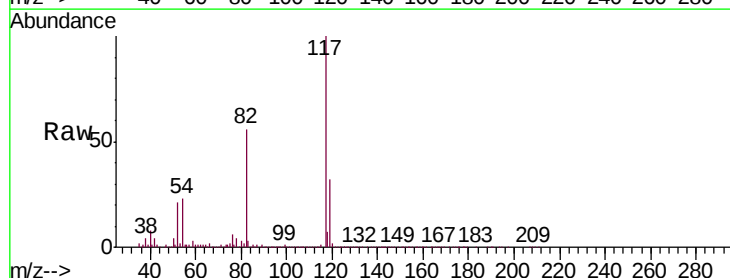
Instrument :
MSVOA_W
ClientSampleId :
JC-02-021119-M

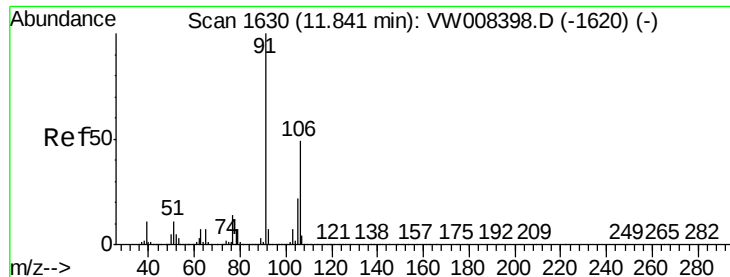
Tgt Ion	Ratio	Lower	Upper
95	100		
174	84.3	0.0	157.6
176	81.0	0.0	151.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW008636.D
Acq: 12 Feb 2019 21:13

Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.7	45.4	68.0
119	31.7	26.2	39.4

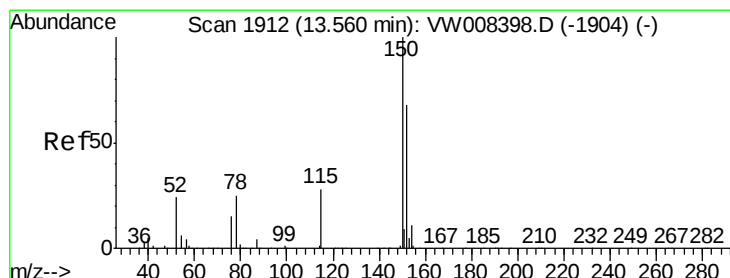
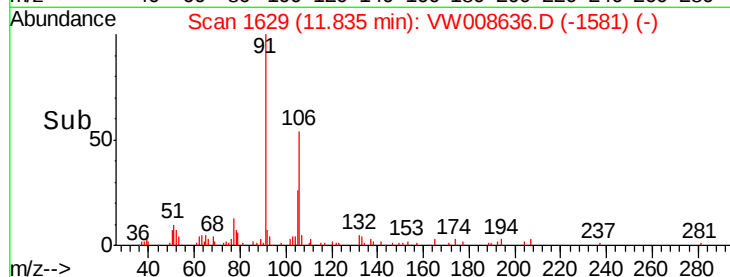
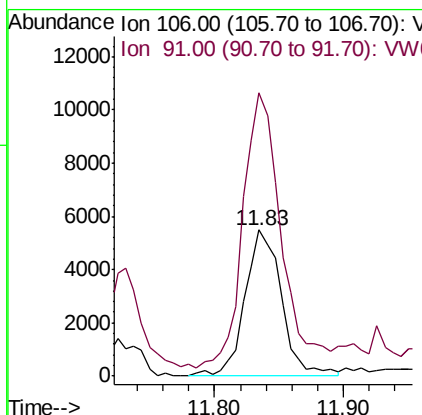
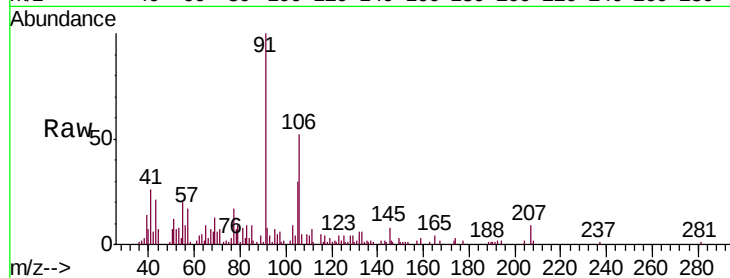




#68
m/p-Xylenes
Concen: 1.215 ug/l
RT: 11.83 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW008636.D
Acq: 12 Feb 2019 21:13

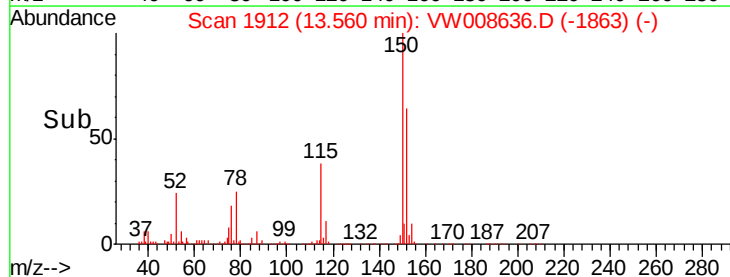
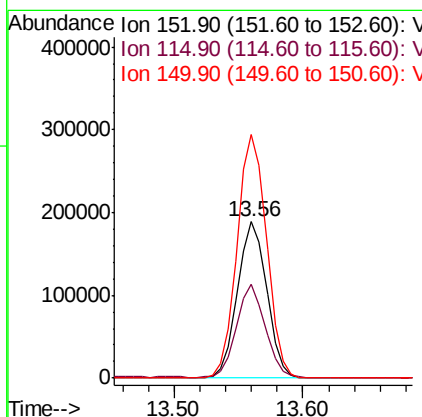
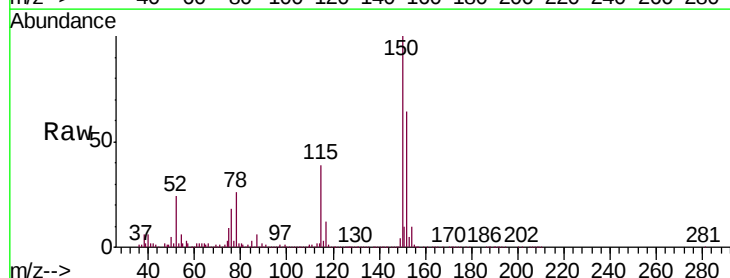
Instrument :
MSVOA_W
ClientSampleId :
JC-02-021119-M

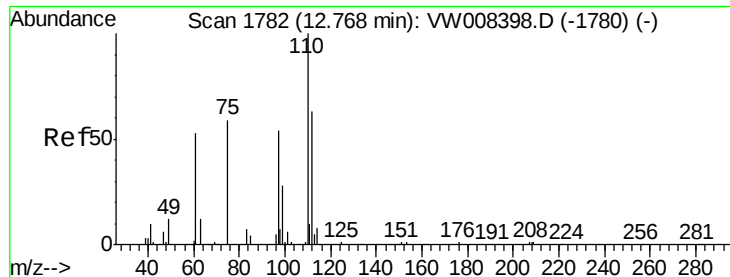
Tgt Ion:106 Resp: 10819
Ion Ratio Lower Upper
106 100
91 195.5 162.9 244.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW008636.D
Acq: 12 Feb 2019 21:13

Tgt Ion:152 Resp: 296806
Ion Ratio Lower Upper
152 100
115 59.3 29.9 89.7
150 157.3 0.0 351.4





#76

1,2,3-Trichloropropane

Concen: 61.979 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW008636.D

Acq: 12 Feb 2019 21:13

Instrument :

MSVOA_W

ClientSampleId :

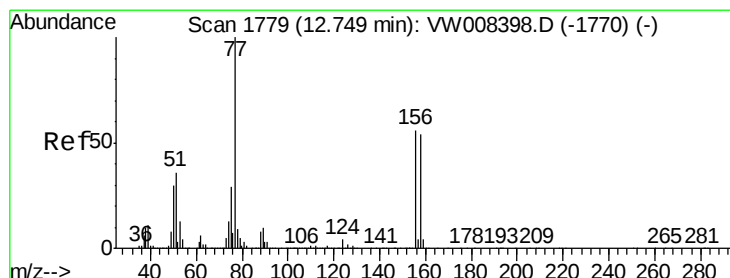
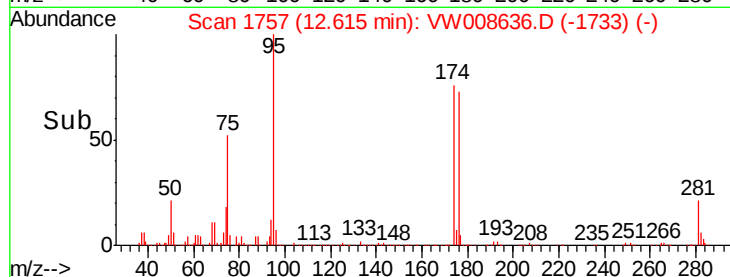
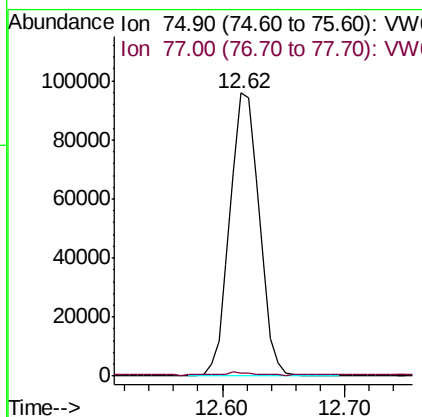
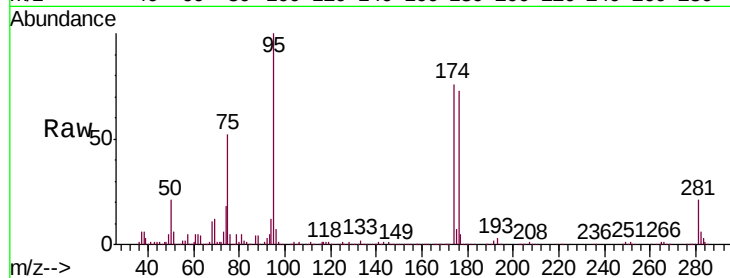
JC-02-021119-M

Tgt Ion: 75 Resp: 159938

Ion Ratio Lower Upper

75 100

77 1.0 180.7 542.1#



#77

Bromobenzene

Concen: 2.664 ug/l

RT: 12.88 min Scan# 1801

Delta R.T. 0.13 min

Lab File: VW008636.D

Acq: 12 Feb 2019 21:13

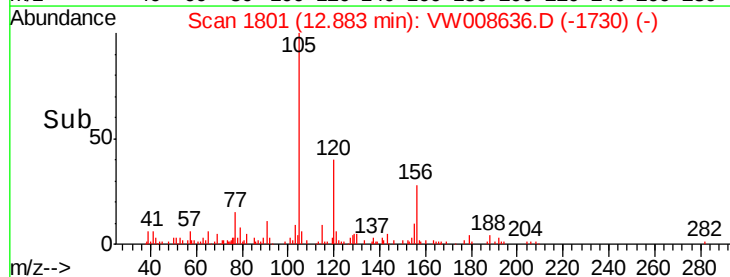
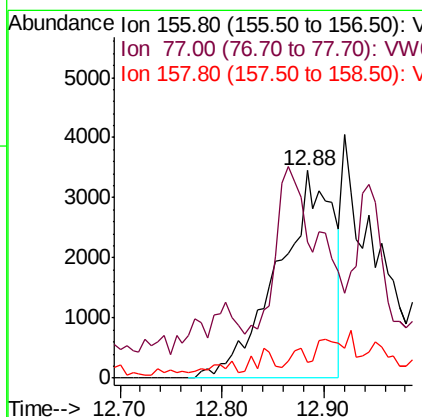
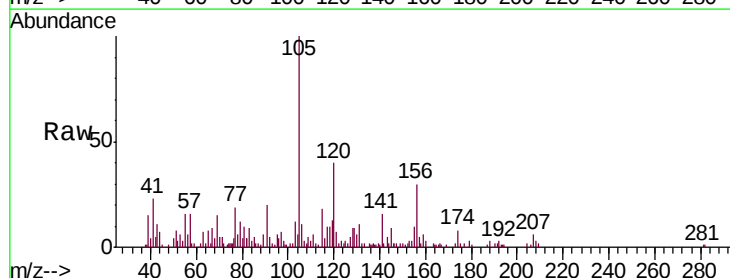
Tgt Ion: 156 Resp: 12873

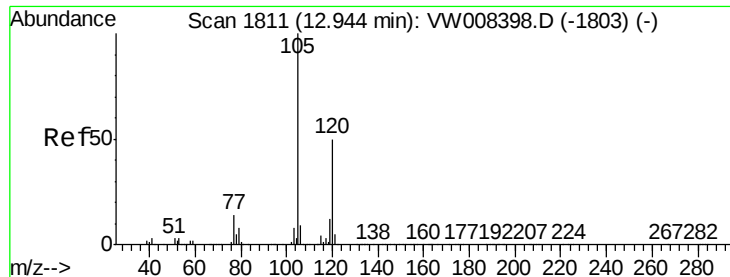
Ion Ratio Lower Upper

156 100

77 44.0 96.9 290.7#

158 2.5 48.8 146.4#





#80

1,3,5-Trimethylbenzene

Concen: 1.369 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW008636.D

Acq: 12 Feb 2019 21:13

Instrument :

MSVOA_W

ClientSampleId :

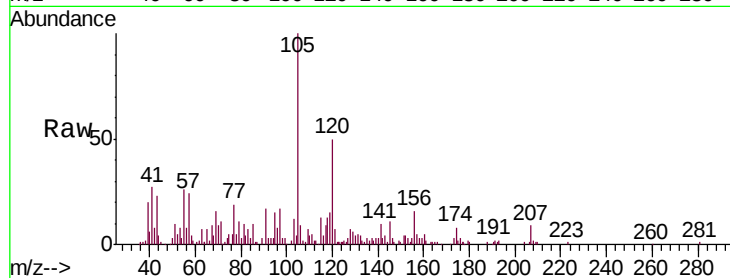
JC-02-021119-M

Tgt Ion:105 Resp: 25314

Ion Ratio Lower Upper

105 100

120 53.1 24.6 73.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.94

15000

10000

5000

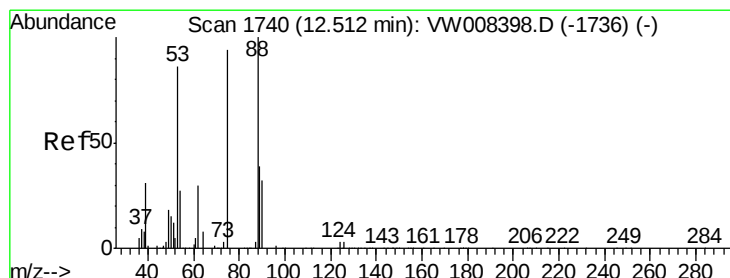
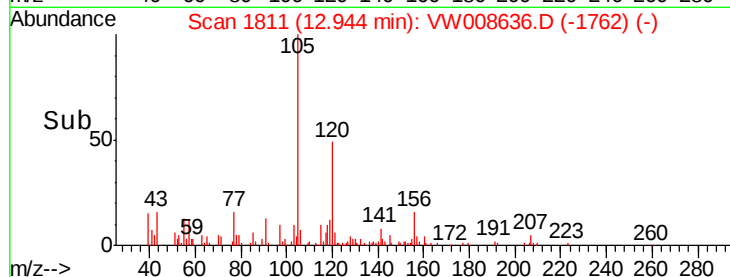
0

Time-->

12.90

12.95

13.00



#81

trans-1,4-Dichloro-2-butene

Concen: 122.413 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW008636.D

Acq: 12 Feb 2019 21:13

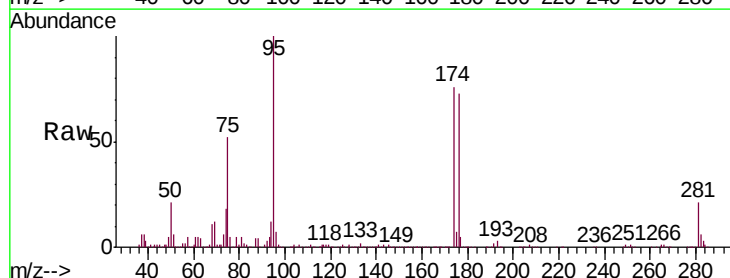
Tgt Ion: 75 Resp: 159938

Ion Ratio Lower Upper

75 100

53 0.0 76.0 114.0#

89 0.6 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

12.62

120000

100000

80000

60000

40000

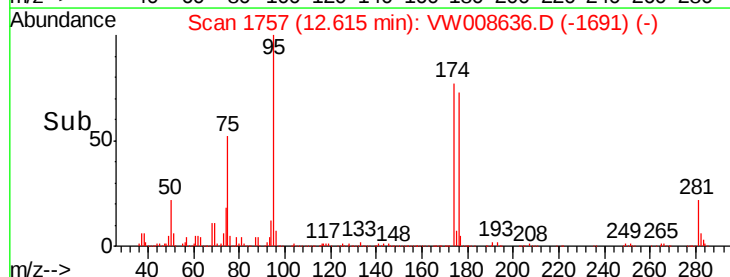
20000

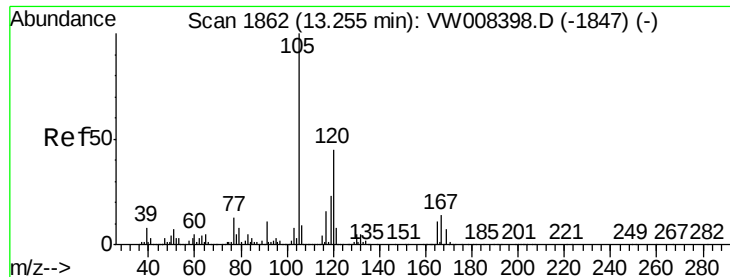
0

Time-->

12.60

12.70





#84

1,2,4-Trimethylbenzene

Concen: 4.327 ug/l

RT: 13.25 min Scan# 1861

Delta R.T. -0.01 min

Lab File: VW008636.D

Acq: 12 Feb 2019 21:13

Instrument :

MSVOA_W

ClientSampleId :

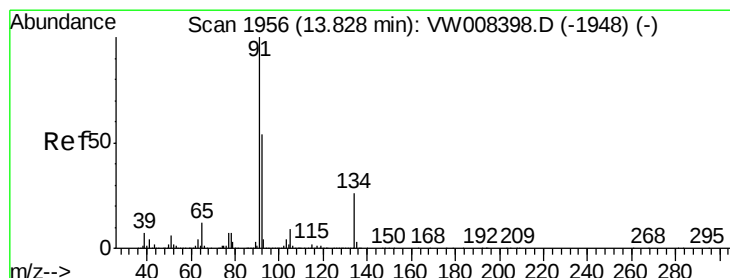
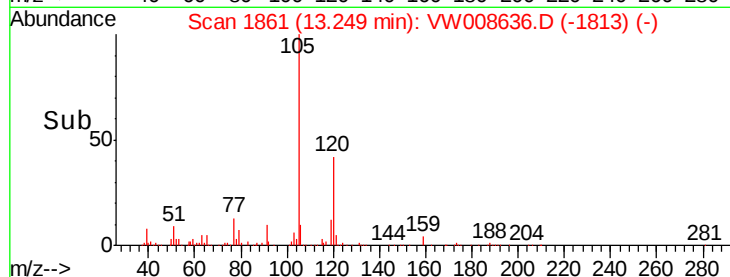
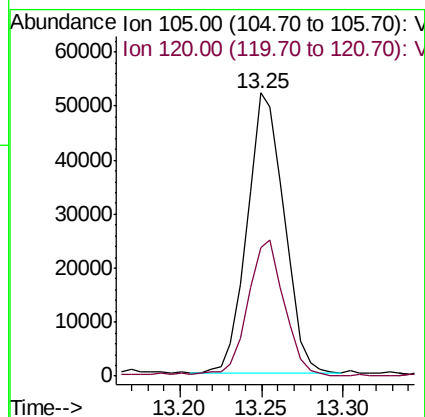
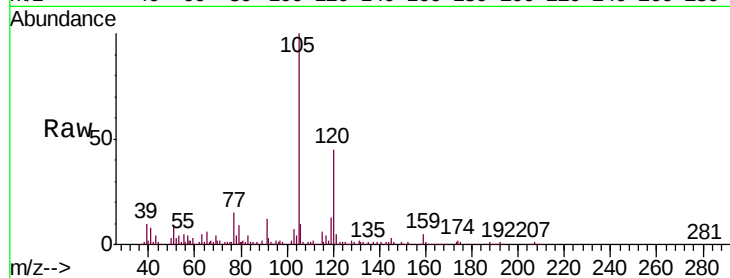
JC-02-021119-M

Tgt Ion: 105 Resp: 81333

Ion Ratio Lower Upper

105 100

120 48.0 23.1 69.2



#89

n-Butylbenzene

Concen: 1.118 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. -0.00 min

Lab File: VW008636.D

Acq: 12 Feb 2019 21:13

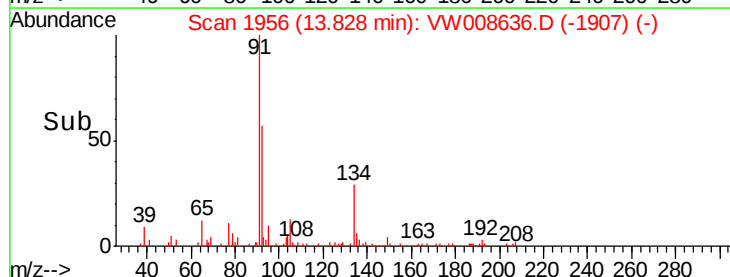
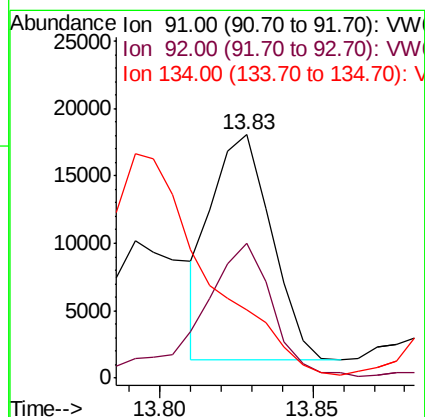
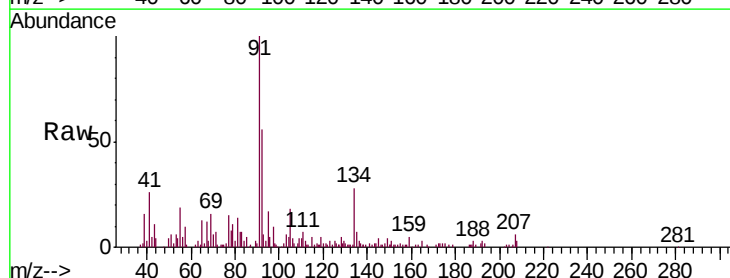
Tgt Ion: 91 Resp: 22595

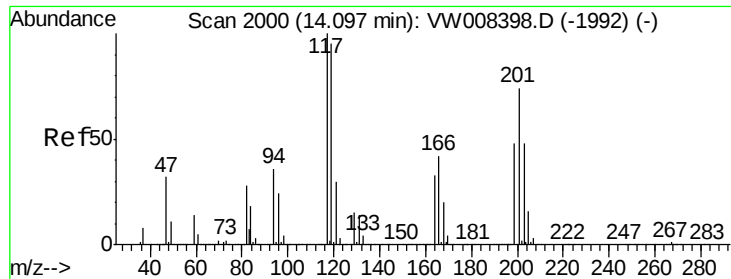
Ion Ratio Lower Upper

91 100

92 68.8 27.4 82.2

134 0.0 13.0 39.0#

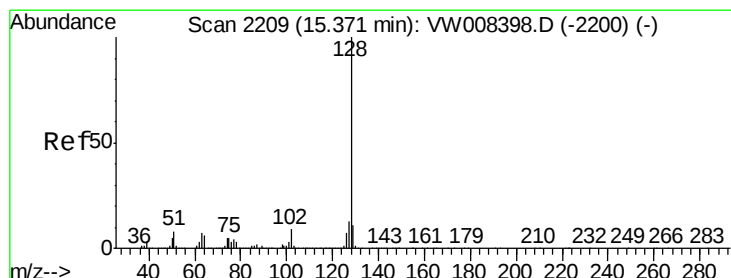
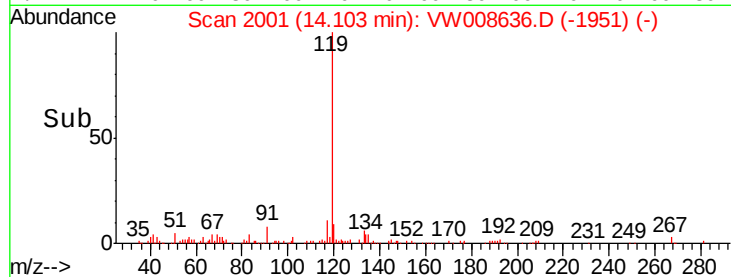
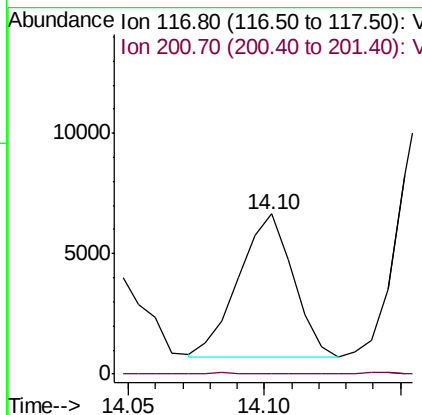
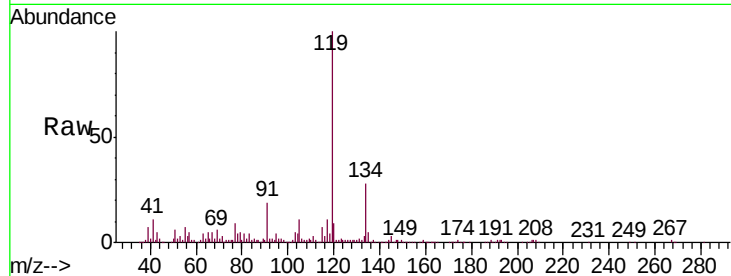




#90
Hexachloroethane
Concen: 2.055 ug/l
RT: 14.10 min Scan# 2001
Delta R.T. 0.01 min
Lab File: VW008636.D
Acq: 12 Feb 2019 21:13

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

Tgt Ion:117 Resp: 8274
Ion Ratio Lower Upper
117 100
201 0.3 39.1 117.5#



#95
Naphthalene
Concen: 2.311 ug/l
RT: 15.38 min Scan# 2210
Delta R.T. 0.01 min
Lab File: VW008636.D
Acq: 12 Feb 2019 21:13

Tgt Ion:128 Resp: 25004
Ion Ratio Lower Upper
128 100
127 20.1 10.6 15.8#
129 5.4 8.7 13.1#

