

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW101818\
 Data File : VW006220.D
 Acq On : 19 Oct 2018 12:31
 Operator : VA/AP
 Sample : J5195-03RE
 Misc : 4.76G/5ML/MSVOA_W/SOIL
 ALS Vial : 57 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 JC-02-101818-ARE

Quant Time: Oct 19 13:01:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W101518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 18 17:01:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	234914	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	321464	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	218768	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	58843	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	86982	44.66	ug/l	0.00
Spiked Amount			Recovery	=	89.32%	
35) Dibromofluoromethane	7.89	113	86915	45.76	ug/l	0.00
Spiked Amount			Recovery	=	91.52%	
50) Toluene-d8	10.33	98	294474	40.75	ug/l	0.00
Spiked Amount			Recovery	=	81.50%	
62) 4-Bromofluorobenzene	12.62	95	68557	25.26	ug/l	0.00
Spiked Amount			Recovery	=	50.52%	

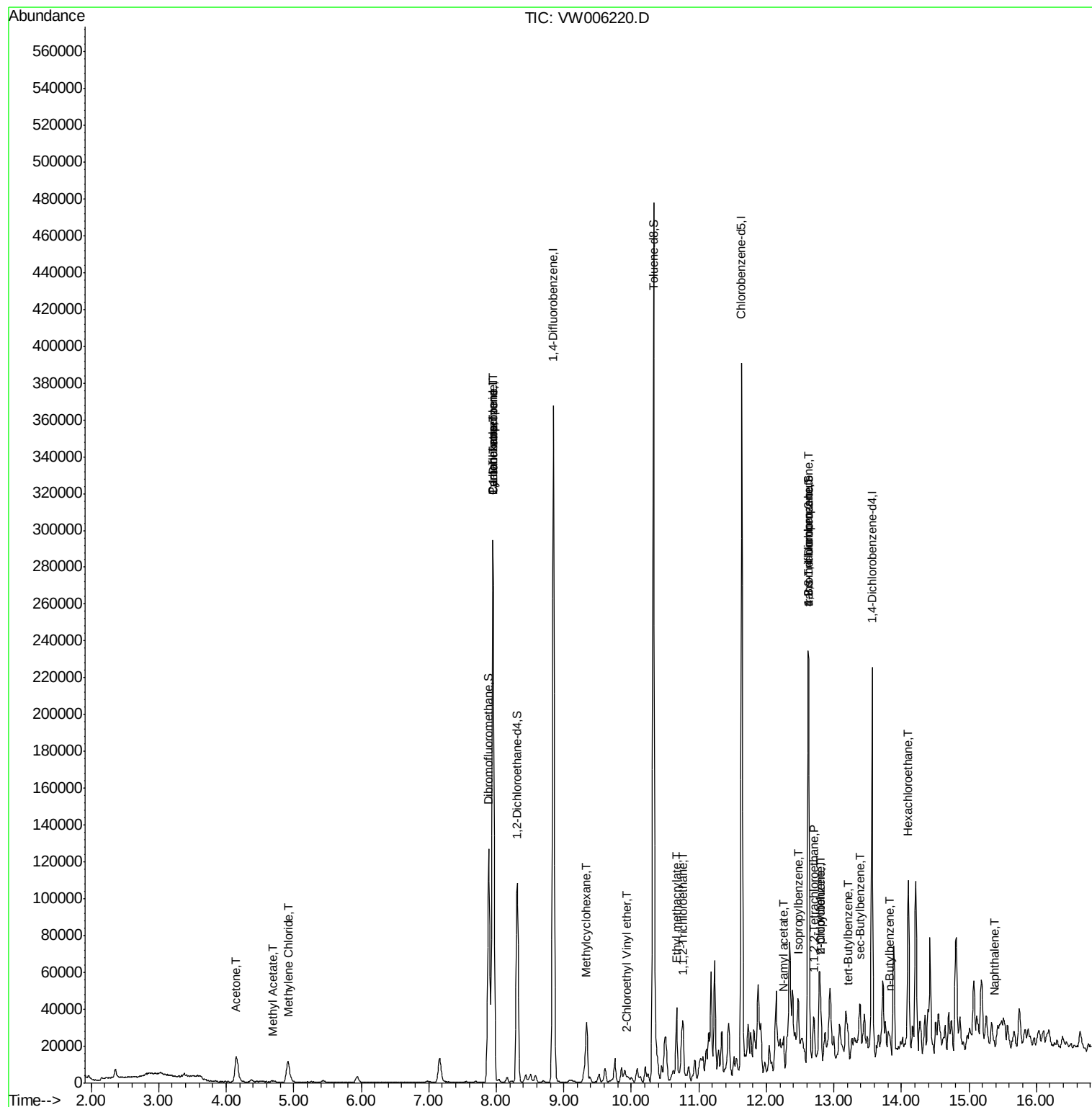
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	4.15	43	29492	70.06	ug/l	94
18) Methyl Acetate	4.68	43	1900	1.94	ug/l #	71
20) Methylene Chloride	4.92	84	9871	3.27	ug/l	96
31) Cyclohexane	7.95	56	4759	1.34	ug/l #	19
36) 1,1-Dichloropropene	7.95	75	15259	5.15	ug/l #	49
38) Carbon Tetrachloride	7.95	117	20836	6.41	ug/l #	16
39) Methylcyclohexane	9.34	83	13861	3.52	ug/l	94
55) 1,1,2-Trichloroethane	10.76	97	11006	7.09	ug/l #	20
56) Ethyl methacrylate	10.66	69	3930	2.07	ug/l #	15
58) 2-Chloroethyl Vinyl ether	9.93	63	729	1.00	ug/l #	64
73) Isopropylbenzene	12.47	105	19595	4.71	ug/l	99
74) N-amyl acetate	12.26	43	3464	4.29	ug/l #	43
75) 1,1,2,2-Tetrachloroethane	12.69	83	1219	1.93	ug/l #	61
76) 1,2,3-Trichloropropane	12.62	75	34101	75.87	ug/l #	100
78) n-propylbenzene	12.81	91	17002	3.52	ug/l	99
79) 2-Chlorotoluene	12.81	91	17002	6.26	ug/l #	39
81) trans-1,4-Dichloro-2-buten	12.62	75	34101	181.37	ug/l #	10
83) tert-Butylbenzene	13.21	119	4413	1.41	ug/l	90
85) sec-Butylbenzene	13.39	105	14032	3.17	ug/l #	66
89) n-Butylbenzene	13.83	91	5456	1.49	ug/l #	59
90) Hexachloroethane	14.10	117	4837	7.13	ug/l #	4
95) Naphthalene	15.38	128	2939	1.27	ug/l #	88

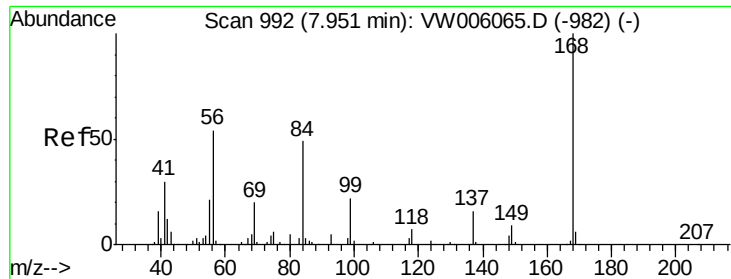
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 19 13:01:39 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W101518S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 18 17:01:24 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW006220.D

Acq: 19 Oct 2018 12:31

Instrument :

MSVOA_W

ClientSampleId :

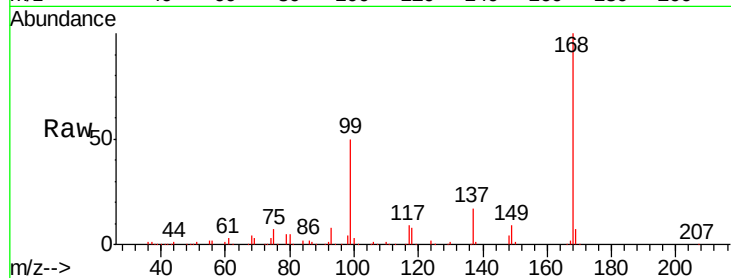
JC-02-101818-ARE

Tgt Ion:168 Resp: 234914

Ion Ratio Lower Upper

168 100

99 50.5 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

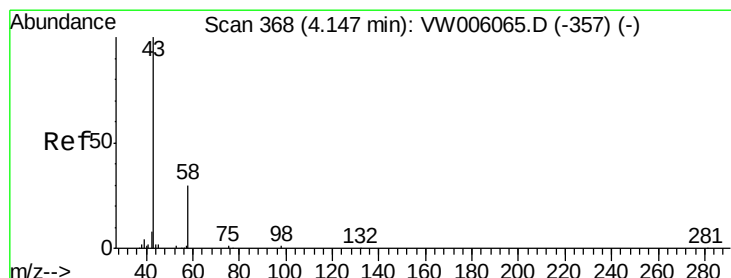
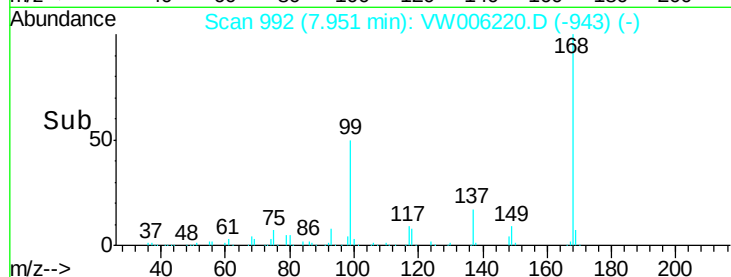
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#16

Acetone

Concen: 70.06 ug/l

RT: 4.15 min Scan# 368

Delta R.T. 0.00 min

Lab File: VW006220.D

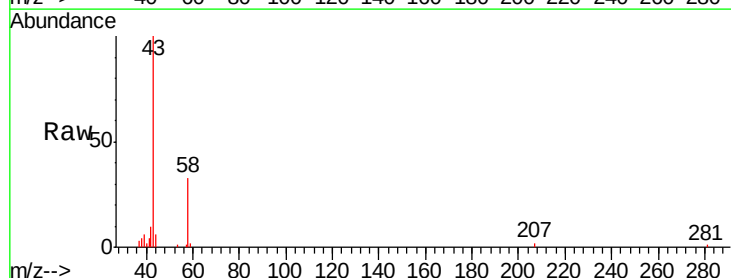
Acq: 19 Oct 2018 12:31

Tgt Ion: 43 Resp: 29492

Ion Ratio Lower Upper

43 100

58 33.0 24.0 36.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.15

8000

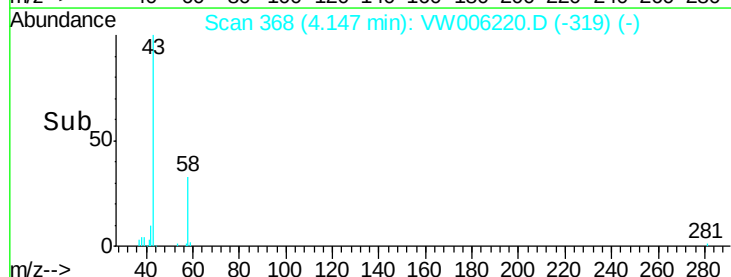
6000

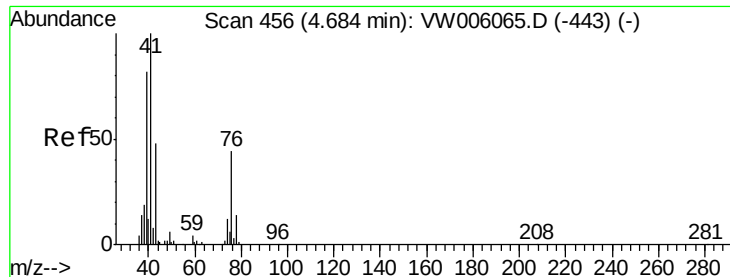
4000

2000

0

Time--> 4.00 4.10 4.20 4.30

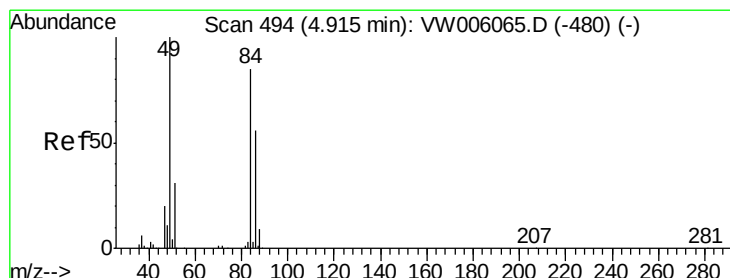
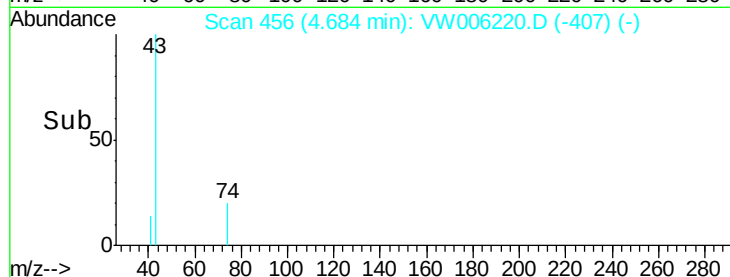
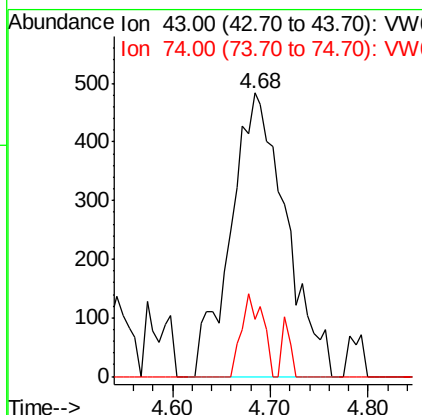
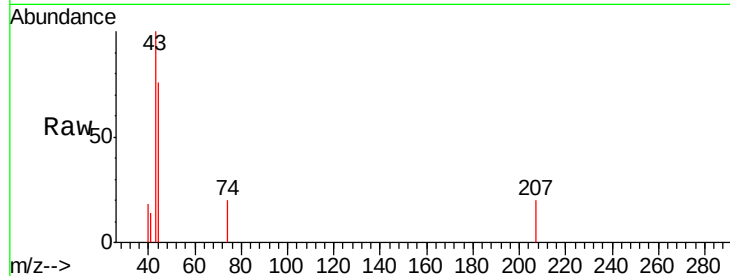




#18
Methyl Acetate
Concen: 1.94 ug/l
RT: 4.68 min Scan# 456
Delta R.T. -0.00 min
Lab File: VW006220.D
Acq: 19 Oct 2018 12:31

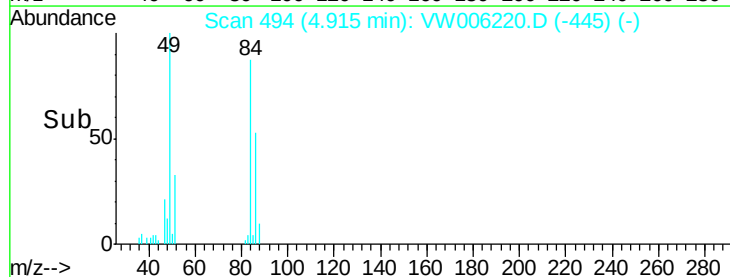
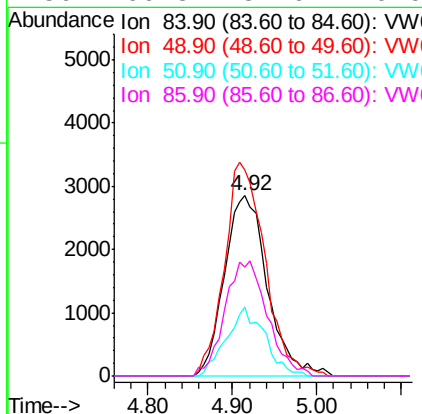
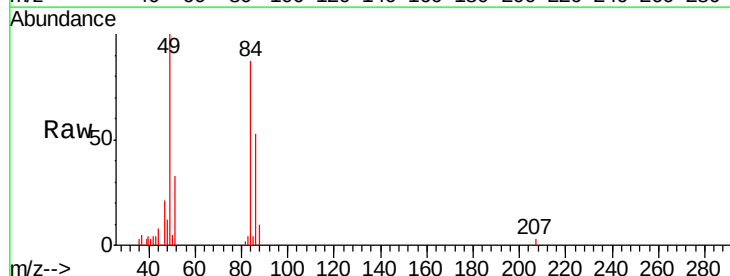
Instrument :
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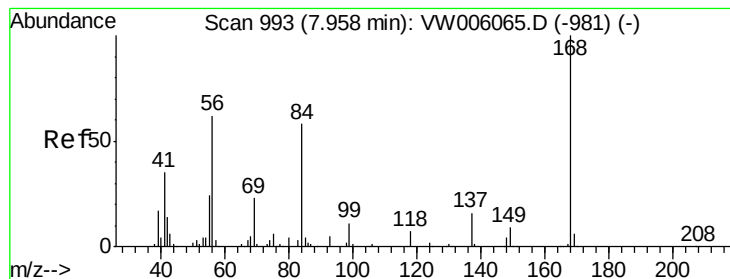
Tgt Ion: 43 Resp: 1900
Ion Ratio Lower Upper
43 100
74 11.1 20.5 30.7#



#20
Methylene Chloride
Concen: 3.27 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW006220.D
Acq: 19 Oct 2018 12:31

Tgt Ion: 84 Resp: 9871
Ion Ratio Lower Upper
84 100
49 114.7 93.6 140.4
51 38.1 29.0 43.4
86 60.3 52.6 79.0





#31

Cyclohexane

Concen: 1.34 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW006220.D

Acq: 19 Oct 2018 12:31

Instrument :

MSVOA_W

ClientSampleId :

JC-02-101818-ARE

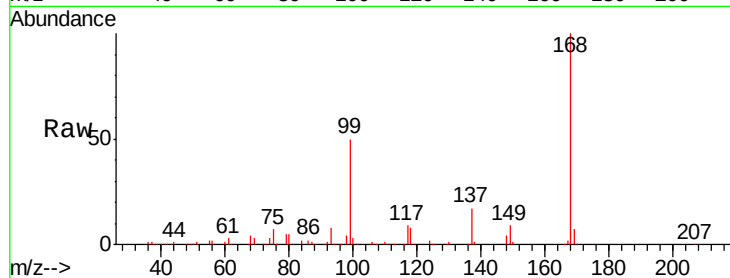
Tgt Ion: 56 Resp: 4759

Ion Ratio Lower Upper

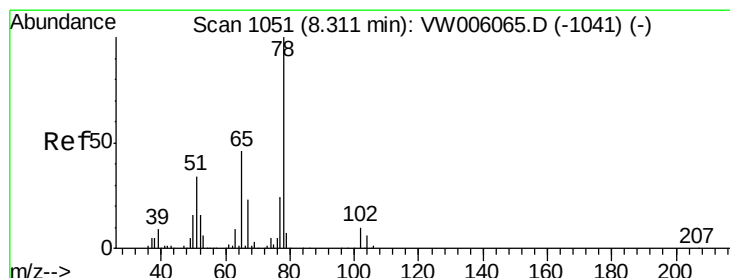
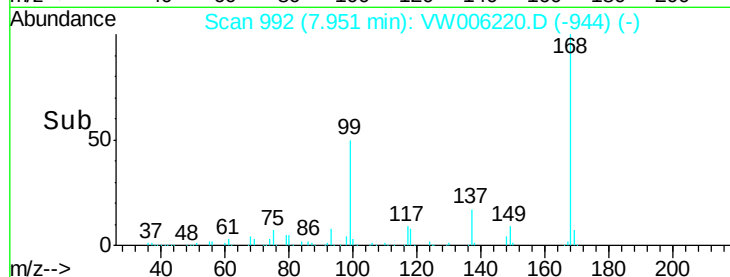
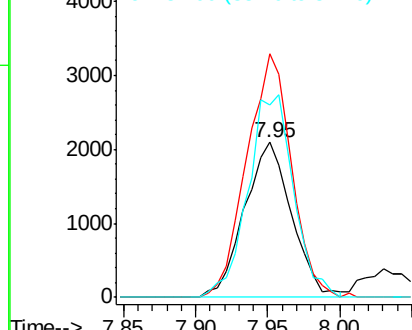
56 100

69 156.8 29.4 44.0#

84 123.9 74.0 111.0#



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: 44.66 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VW006220.D

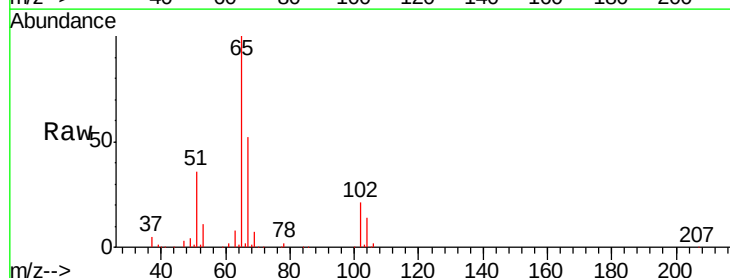
Acq: 19 Oct 2018 12:31

Tgt Ion: 65 Resp: 86982

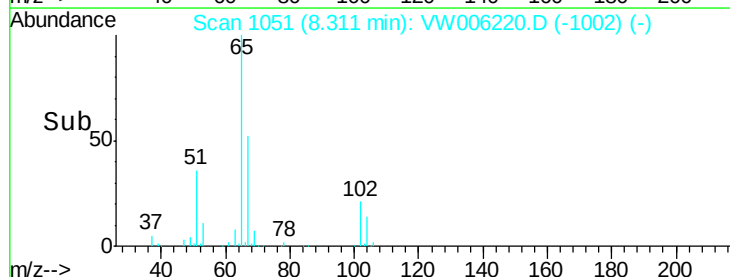
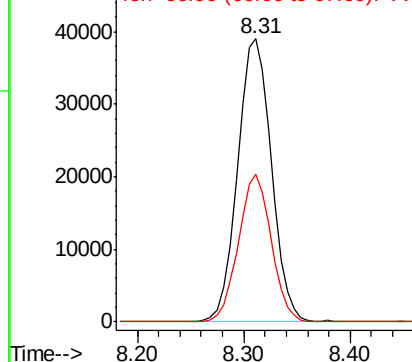
Ion Ratio Lower Upper

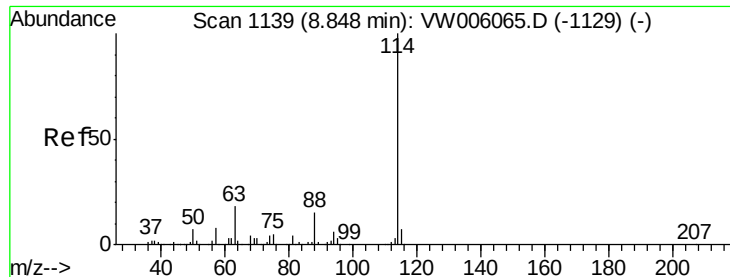
65 100

67 50.6 0.0 101.0



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

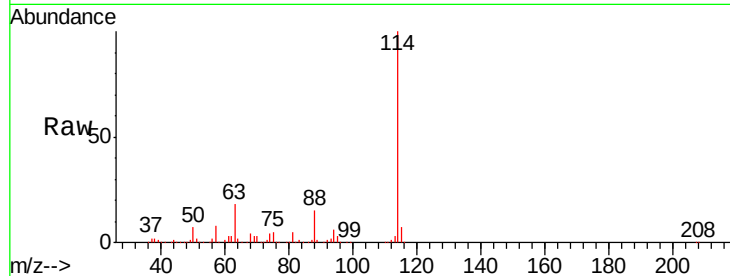




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. -0.00 min
 Lab File: VW006220.D
 Acq: 19 Oct 2018 12:31

Instrument :
 MSVOA_W
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 JC-02-101818-ARE

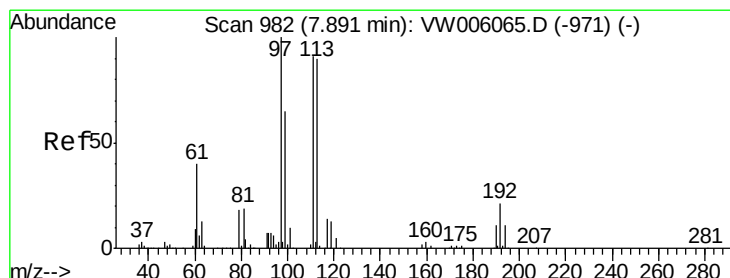
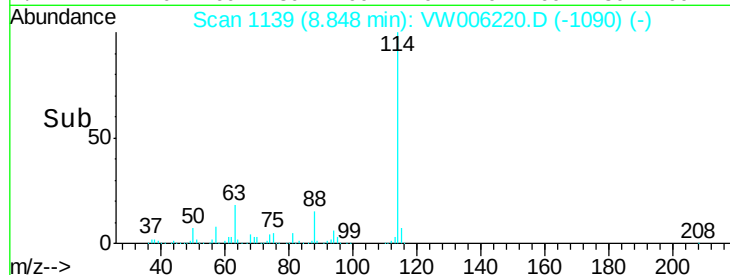
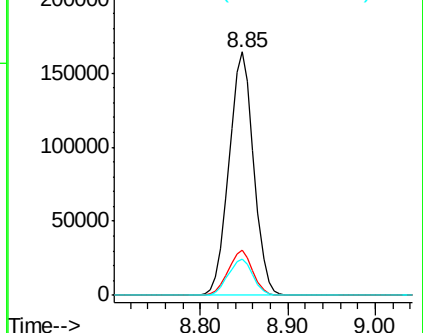
Tgt Ion	Ratio	Lower	Upper
114	100		
63	18.3	0.0	36.8
88	15.0	0.0	29.0



Abundance Ion 113.90 (113.60 to 114.60): V

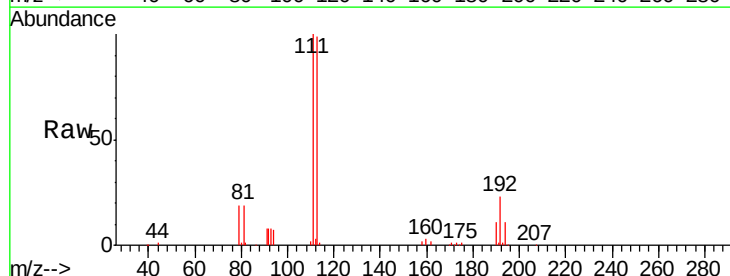
Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35
 Dibromofluoromethane
 Concen: 45.76 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. -0.00 min
 Lab File: VW006220.D
 Acq: 19 Oct 2018 12:31

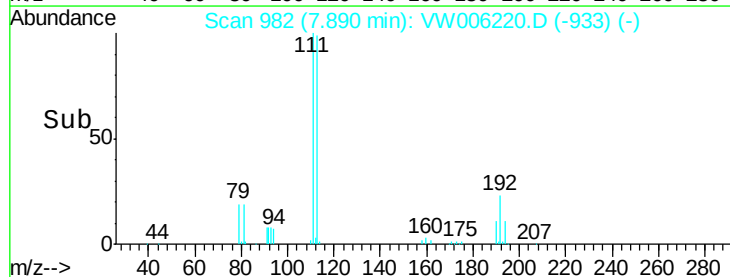
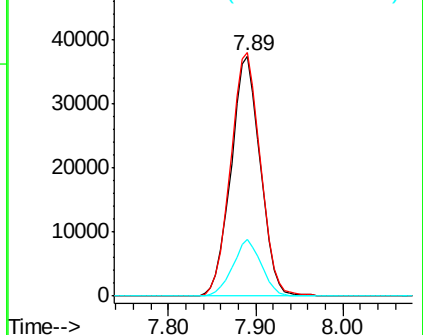
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.3	81.4	122.0
192	23.0	18.7	28.1

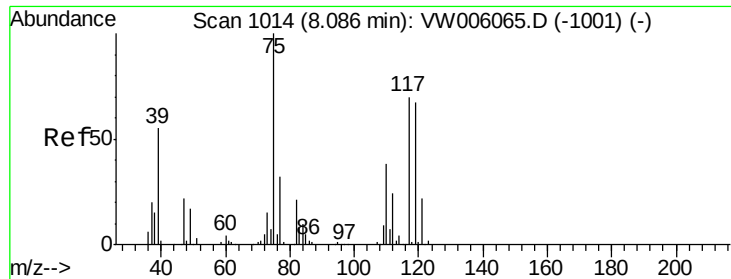


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

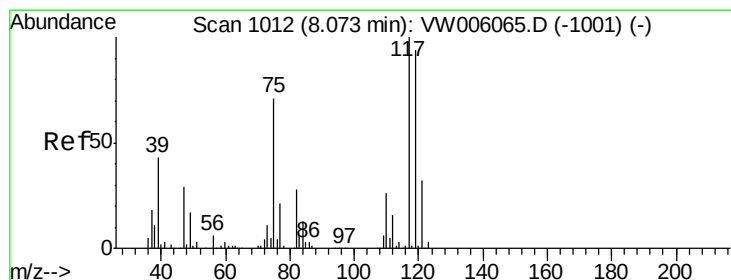
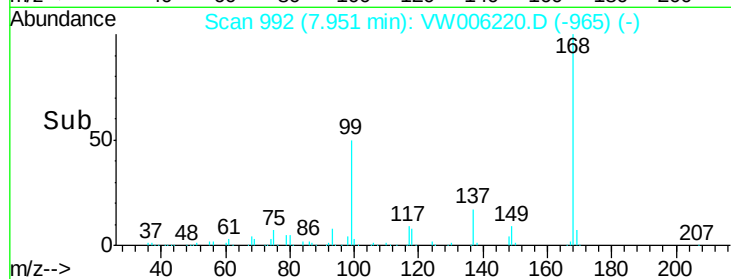
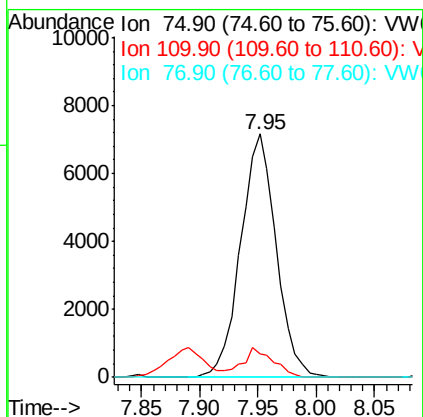
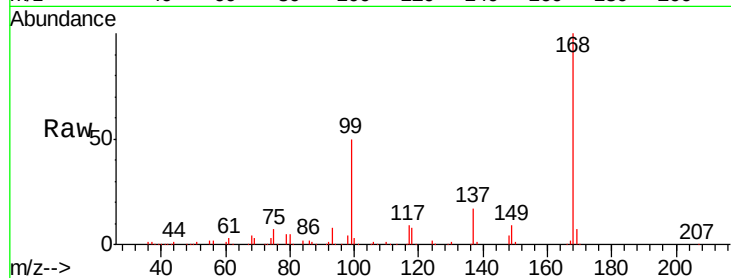




#36
 1,1-Dichloropropene
 Concen: 5.15 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW006220.D
 Acq: 19 Oct 2018 12:31

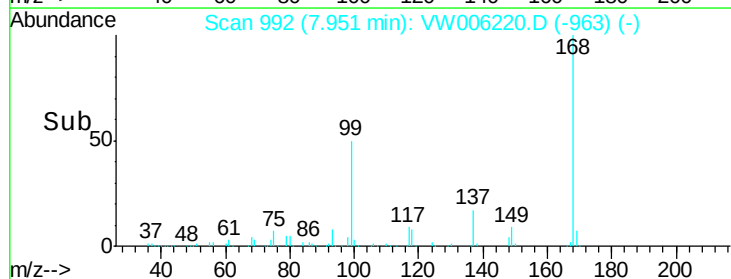
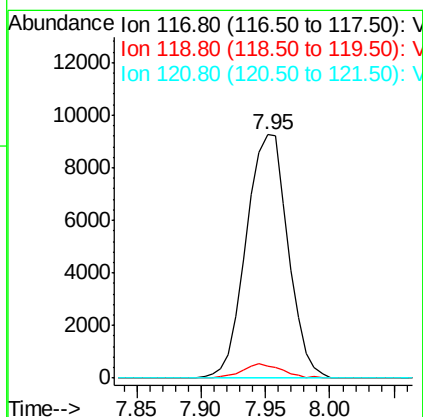
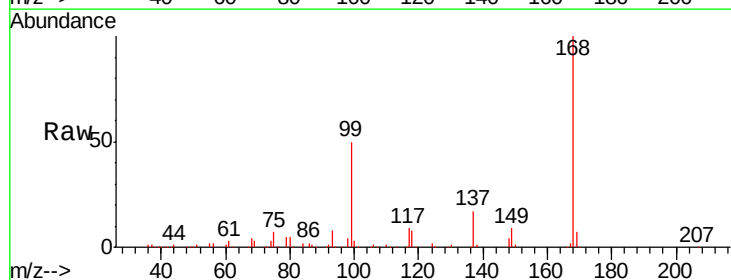
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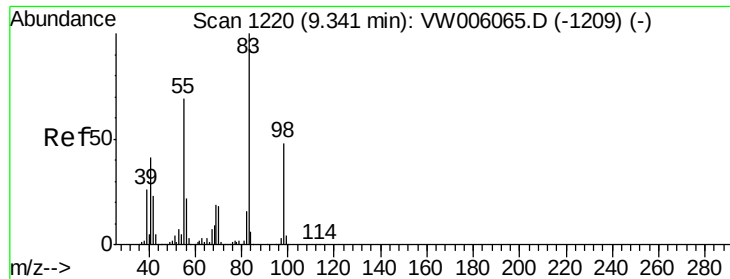
Tgt Ion: 75 Resp: 15259
 Ion Ratio Lower Upper
 75 100
 110 10.4 19.1 57.1#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.41 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.12 min
 Lab File: VW006220.D
 Acq: 19 Oct 2018 12:31

Tgt Ion: 117 Resp: 20836
 Ion Ratio Lower Upper
 117 100
 119 4.7 75.2 112.8#
 121 0.0 25.3 37.9#

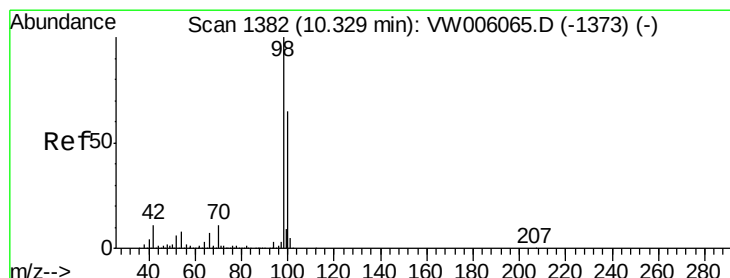
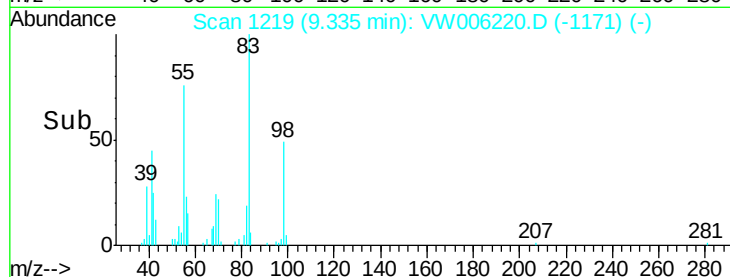
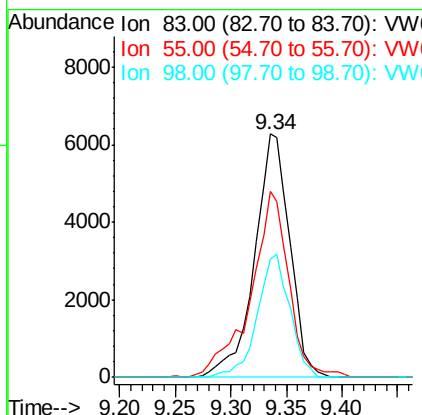
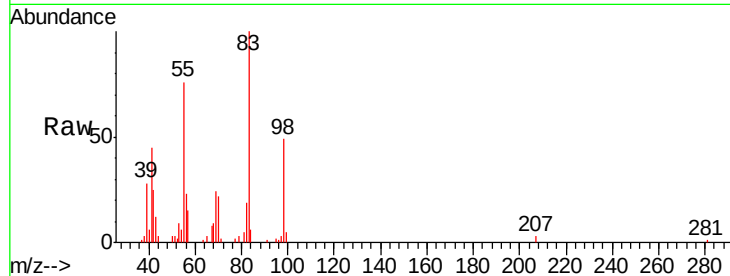




#39
Methylcyclohexane
Concen: 3.52 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.01 min
Lab File: VW006220.D
Acq: 19 Oct 2018 12:31

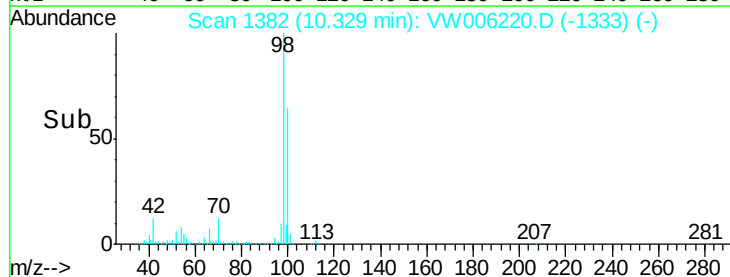
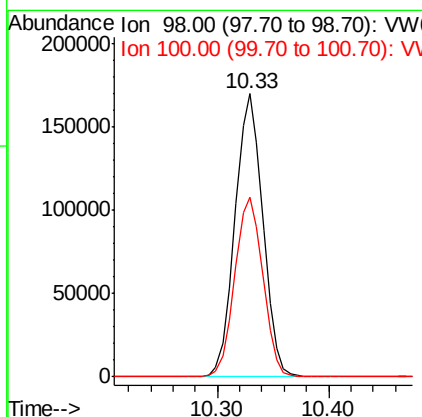
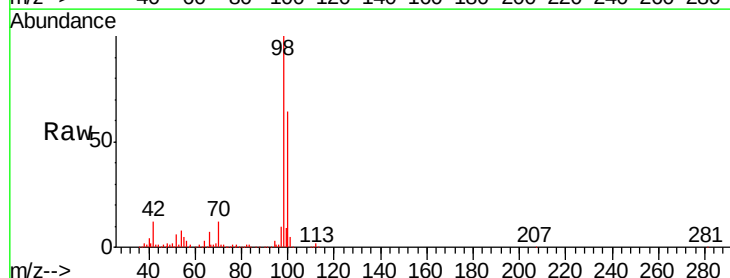
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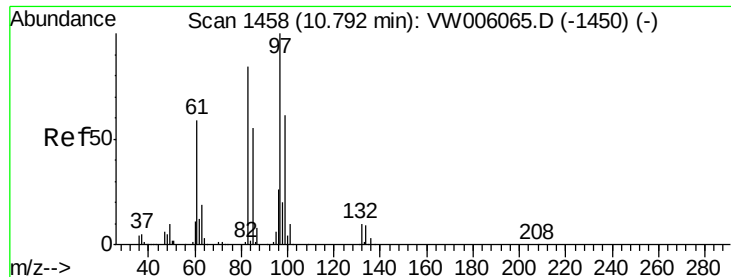
Tgt Ion: 83 Resp: 13861
Ion Ratio Lower Upper
83 100
55 76.4 55.0 82.6
98 48.5 38.6 57.8



#50
Toluene-d8
Concen: 40.75 ug/l
RT: 10.33 min Scan# 1382
Delta R.T. -0.00 min
Lab File: VW006220.D
Acq: 19 Oct 2018 12:31

Tgt Ion: 98 Resp: 294474
Ion Ratio Lower Upper
98 100
100 63.8 51.6 77.4

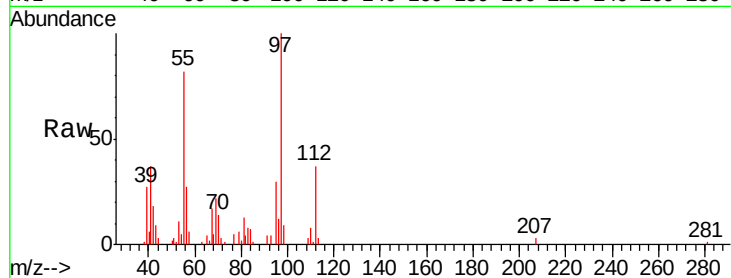




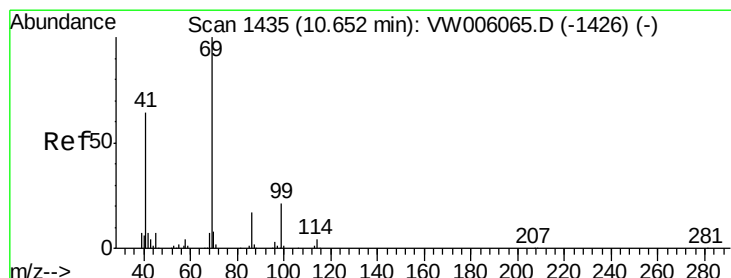
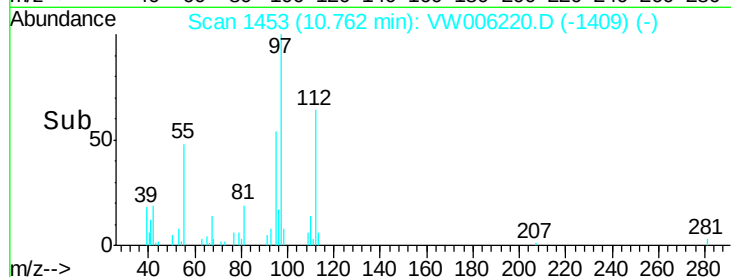
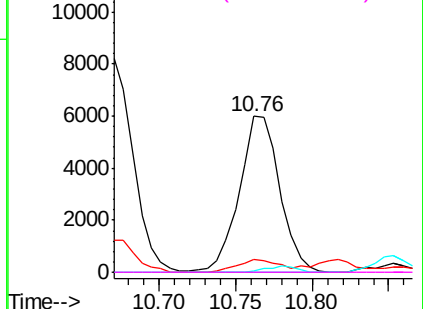
#55
 1,1,2-Trichloroethane
 Concen: 7.09 ug/l
 RT: 10.76 min Scan# 1453
 Delta R.T. -0.03 min
 Lab File: VW006220.D
 Acq: 19 Oct 2018 12:31

Instrument :
 MSVOA_W
 ClientSampleId :
 JC-02-101818-ARE

Tgt Ion: 97 Resp: 11006
 Ion Ratio Lower Upper
 97 100
 83 7.9 67.2 100.8#
 85 1.3 43.7 65.5#
 99 0.0 48.5 72.7#

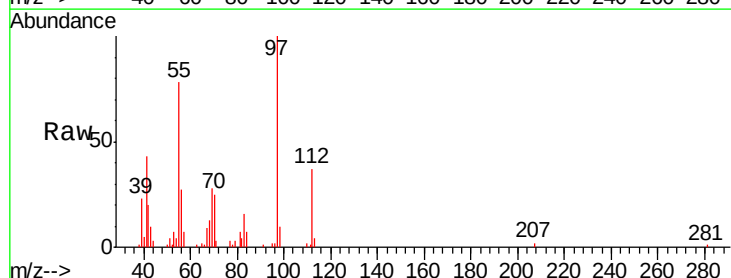


Abundance Ion 96.90 (96.60 to 97.60): VW
 Ion 82.90 (82.60 to 83.60): VW
 Ion 84.90 (84.60 to 85.60): VW
 Ion 98.90 (98.60 to 99.60): VW

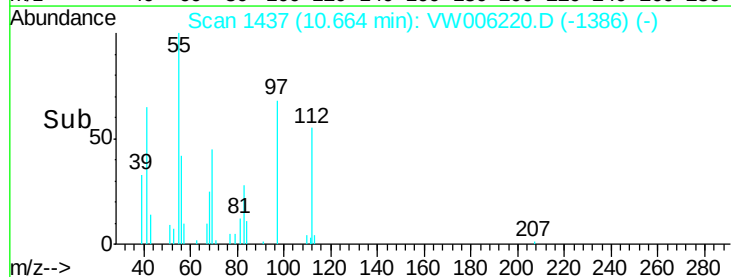
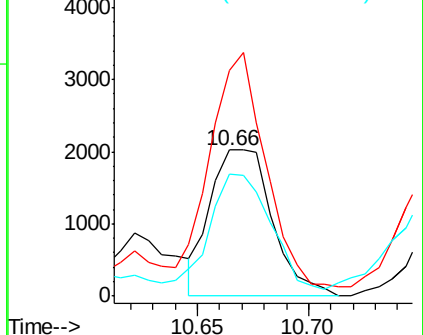


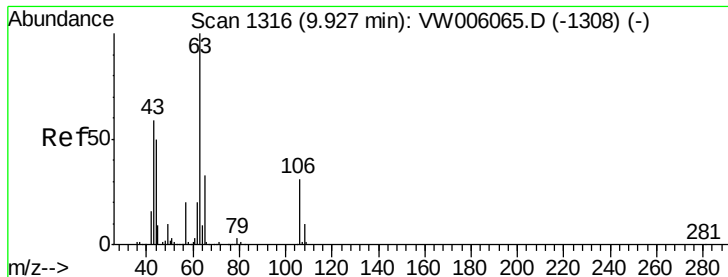
#56
 Ethyl methacrylate
 Concen: 2.07 ug/l
 RT: 10.66 min Scan# 1437
 Delta R.T. 0.01 min
 Lab File: VW006220.D
 Acq: 19 Oct 2018 12:31

Tgt Ion: 69 Resp: 3930
 Ion Ratio Lower Upper
 69 100
 41 143.3 52.8 79.2#
 39 76.9 30.6 45.8#



Abundance Ion 69.00 (68.70 to 69.70): VW
 Ion 41.00 (40.70 to 41.70): VW
 Ion 39.00 (38.70 to 39.70): VW





#58

2-Chloroethyl Vinyl ether

Concen: 1.00 ug/l

RT: 9.93 min Scan# 1317

Delta R.T. 0.01 min

Lab File: VW006220.D

Acq: 19 Oct 2018 12:31

Instrument :

MSVOA_W

ClientSampleId :

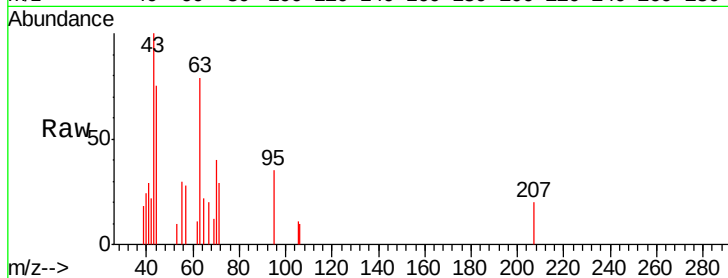
JC-02-101818-ARE

Tgt Ion: 63 Resp: 729

Ion Ratio Lower Upper

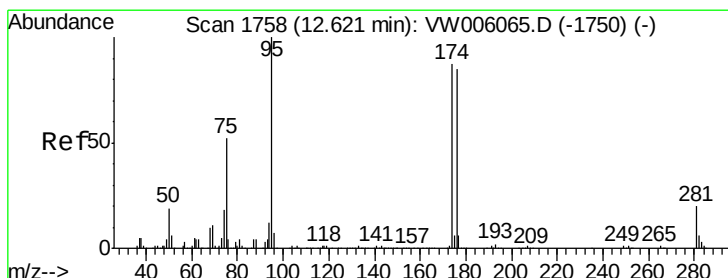
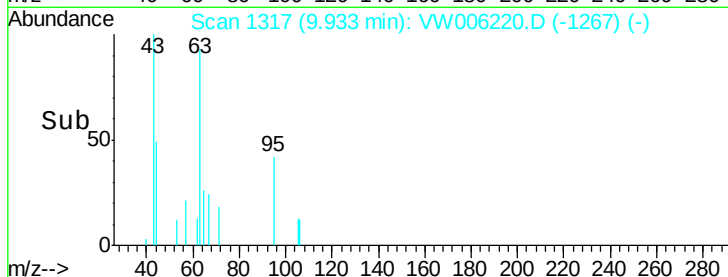
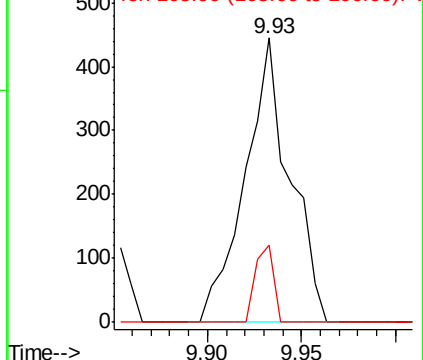
63 100

106 10.8 24.5 36.7#



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 105.90 (105.60 to 106.60): V



#62

4-Bromofluorobenzene

Concen: 25.26 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW006220.D

Acq: 19 Oct 2018 12:31

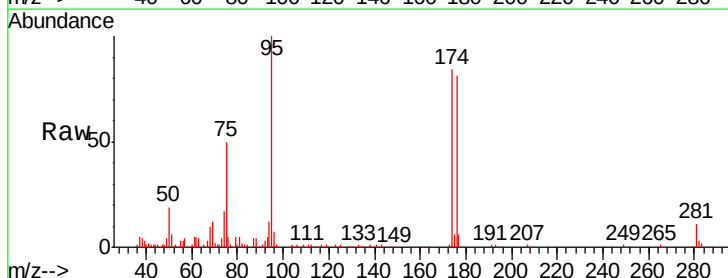
Tgt Ion: 95 Resp: 68557

Ion Ratio Lower Upper

95 100

174 90.9 0.0 186.0

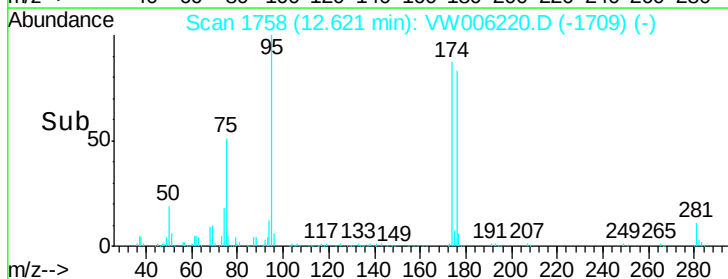
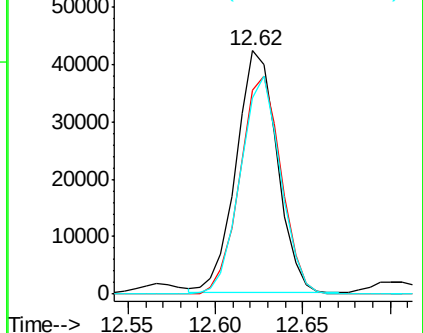
176 88.5 0.0 181.6

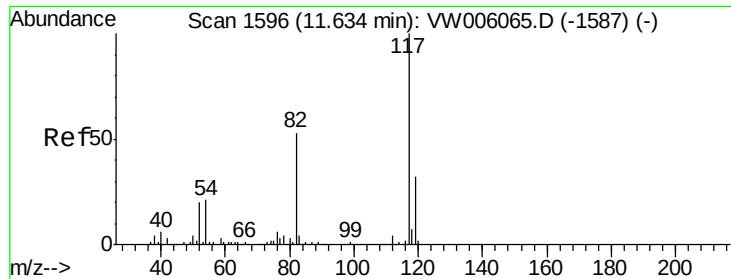


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

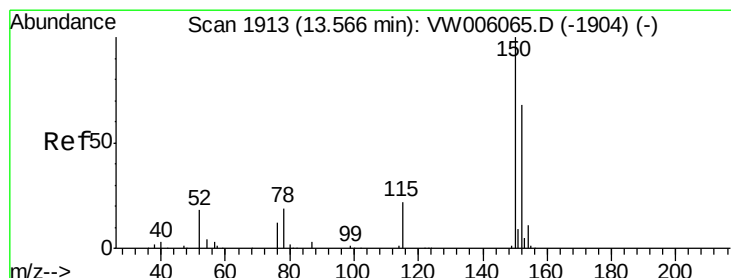
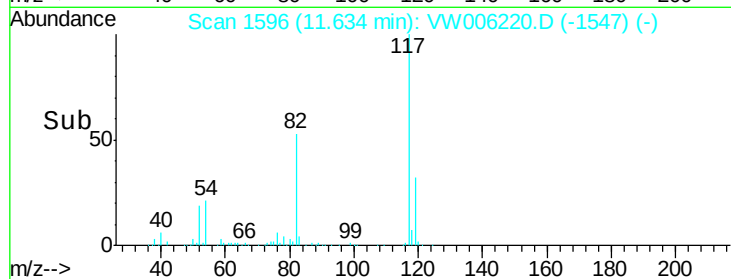
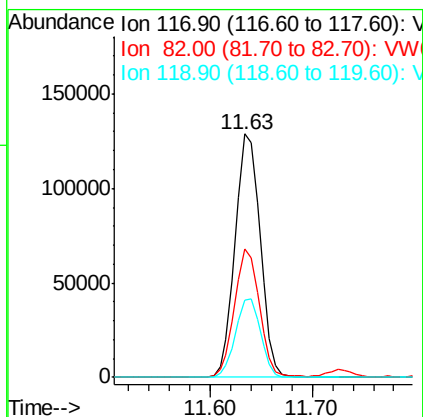
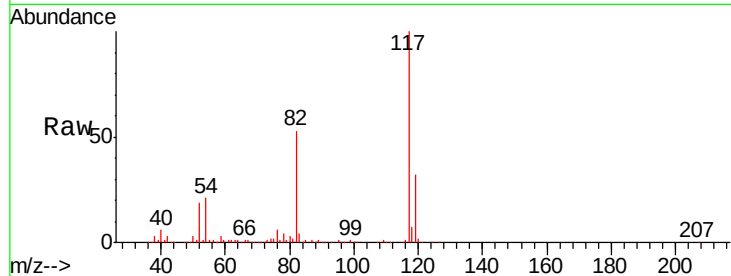




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW006220.D
Acq: 19 Oct 2018 12:31

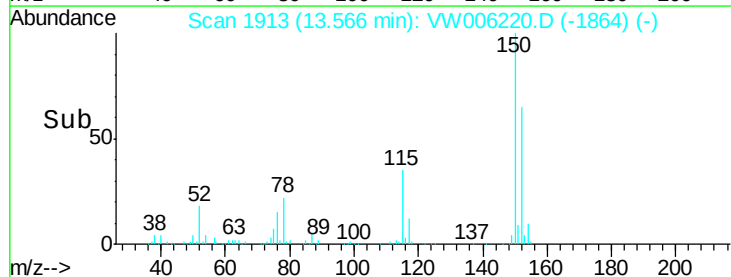
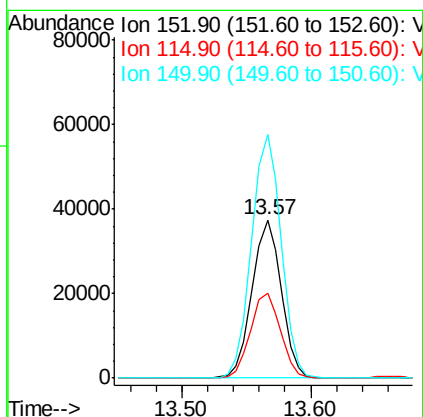
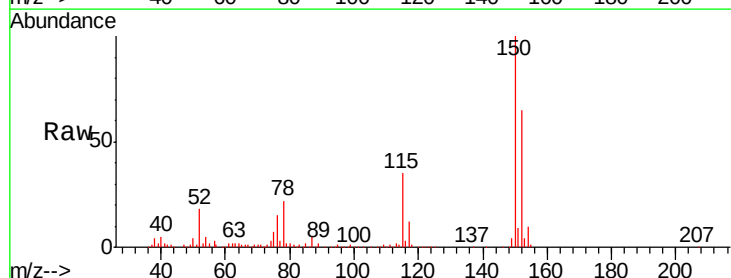
Instrument :
MSVOA_W
ClientSampleId :
JC-02-101818-ARE

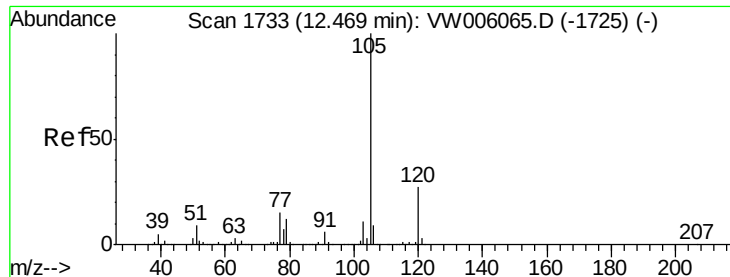
Tgt Ion:117 Resp: 218768
Ion Ratio Lower Upper
117 100
82 52.5 42.1 63.1
119 31.6 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.57 min Scan# 1913
Delta R.T. -0.00 min
Lab File: VW006220.D
Acq: 19 Oct 2018 12:31

Tgt Ion:152 Resp: 58843
Ion Ratio Lower Upper
152 100
115 54.6 27.8 83.3
150 154.8 0.0 349.2

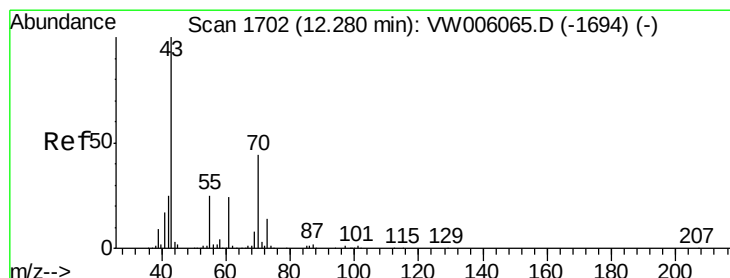
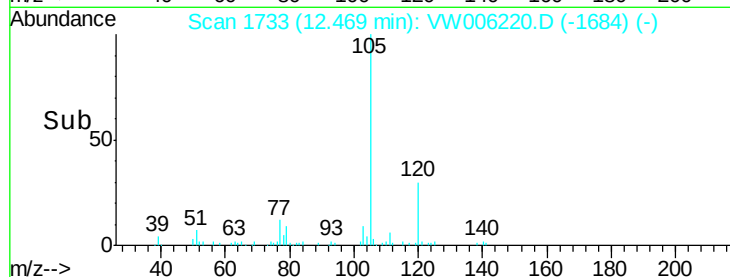
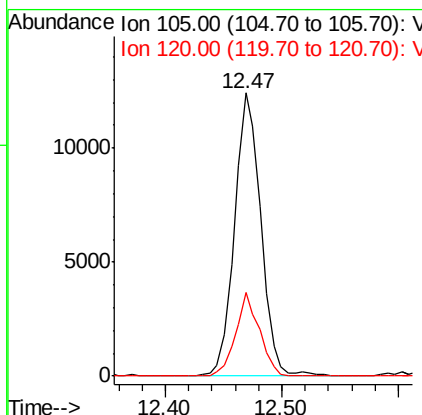
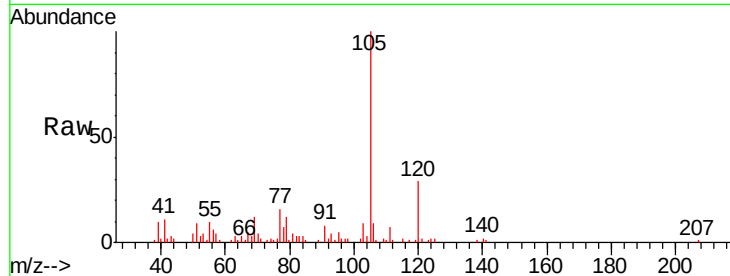




#73
Isopropylbenzene
Concen: 4.71 ug/l
RT: 12.47 min Scan# 1733
Delta R.T. -0.00 min
Lab File: VW006220.D
Acq: 19 Oct 2018 12:31

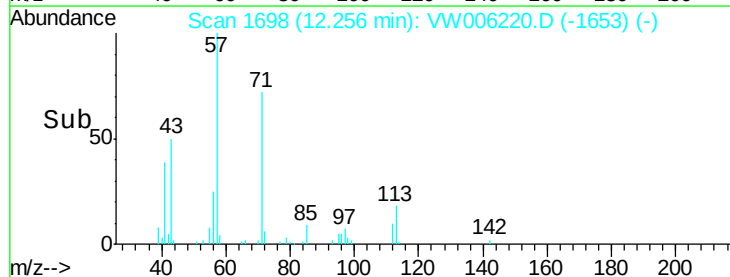
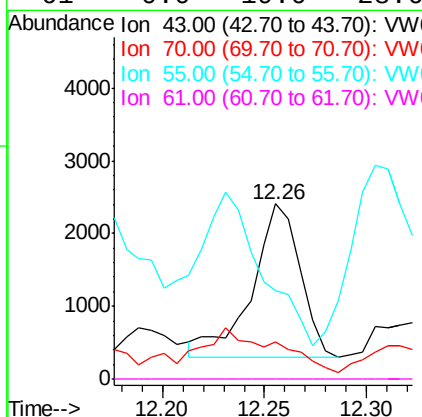
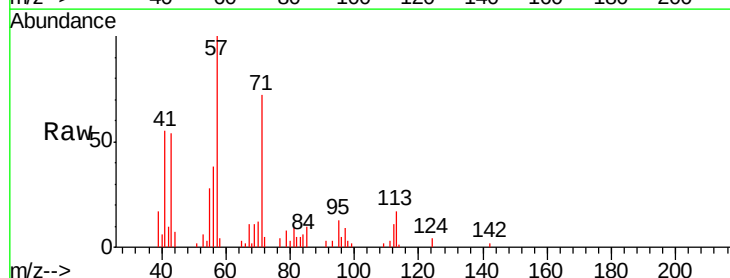
Instrument :
MSVOA_W
ClientSampleId :
JC-02-101818-ARE

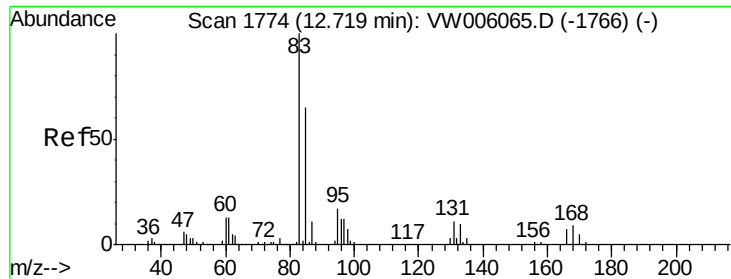
Tgt Ion: 105 Resp: 19595
Ion Ratio Lower Upper
105 100
120 26.5 13.6 40.7



#74
N-ethyl acetate
Concen: 4.29 ug/l
RT: 12.26 min Scan# 1698
Delta R.T. -0.02 min
Lab File: VW006220.D
Acq: 19 Oct 2018 12:31

Tgt Ion: 43 Resp: 3464
Ion Ratio Lower Upper
43 100
70 0.0 34.2 51.4#
55 0.0 19.2 28.8#
61 0.0 19.0 28.6#





#75

1,1,2,2-Tetrachloroethane

Concen: 1.93 ug/l

RT: 12.69 min Scan# 1770

Delta R.T. -0.02 min

Lab File: VW006220.D

Acq: 19 Oct 2018 12:31

Instrument :

MSVOA_W

ClientSampleId :

JC-02-101818-ARE

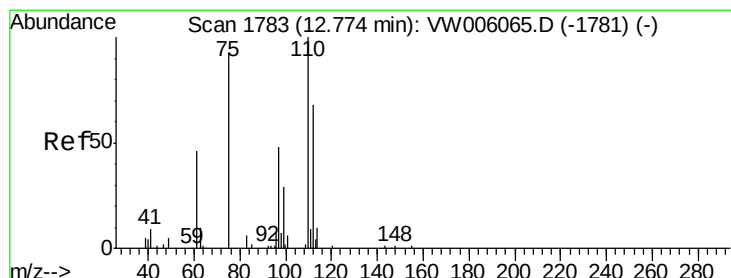
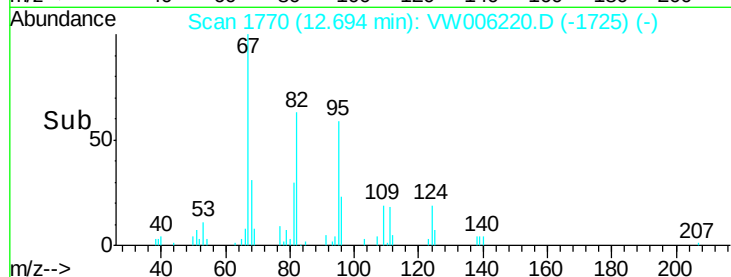
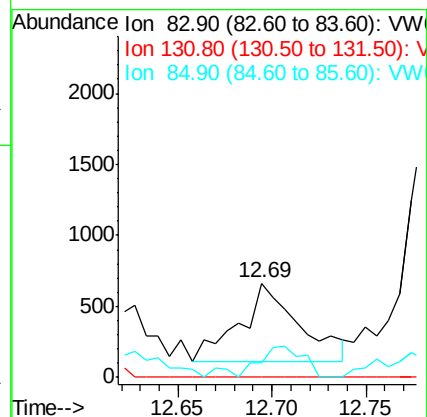
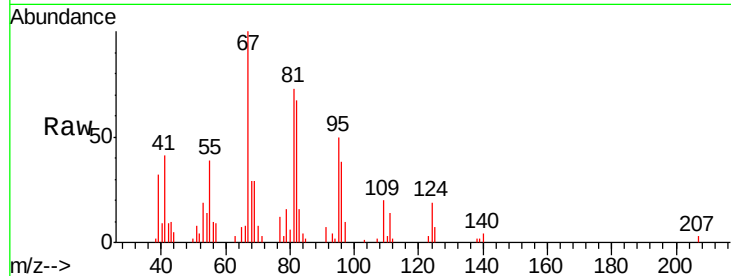
Tgt Ion: 83 Resp: 1219

Ion Ratio Lower Upper

83 100

131 0.0 5.9 17.7#

85 31.8 31.9 95.9#



#76

1,2,3-Trichloropropane

Concen: 75.87 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW006220.D

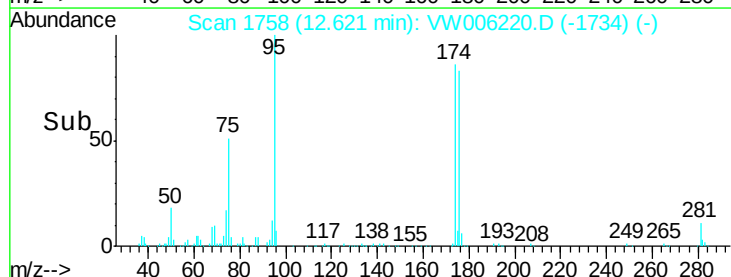
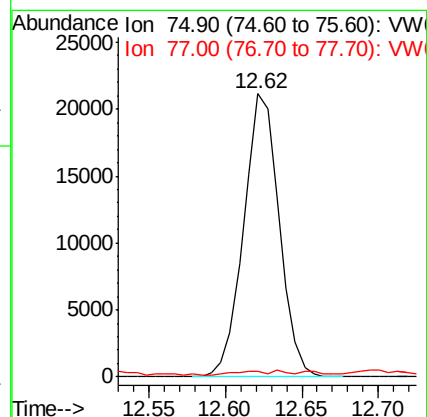
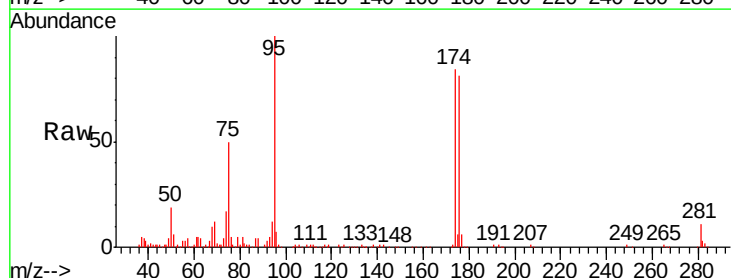
Acq: 19 Oct 2018 12:31

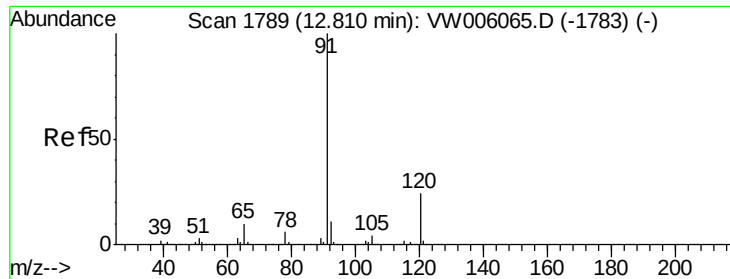
Tgt Ion: 75 Resp: 34101

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#





#78

n-propylbenzene

Concen: 3.52 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VW006220.D

Acq: 19 Oct 2018 12:31

Instrument :

MSVOA_W

ClientSampleId :

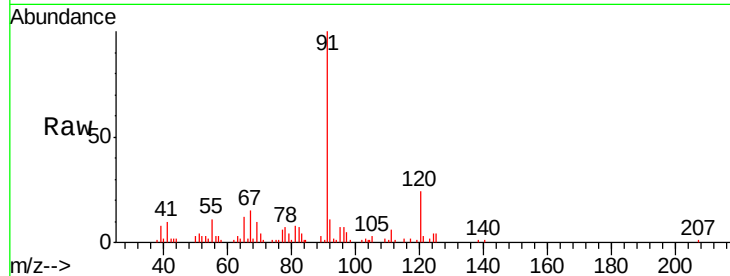
JC-02-101818-ARE

Tgt Ion: 91 Resp: 17002

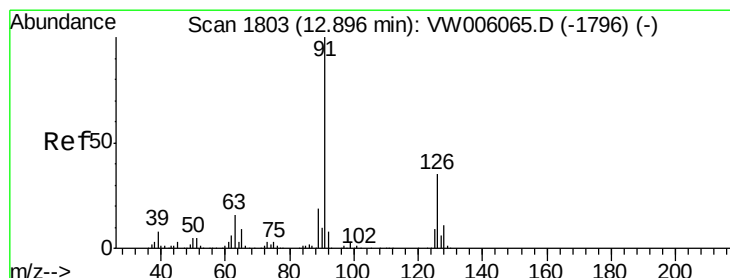
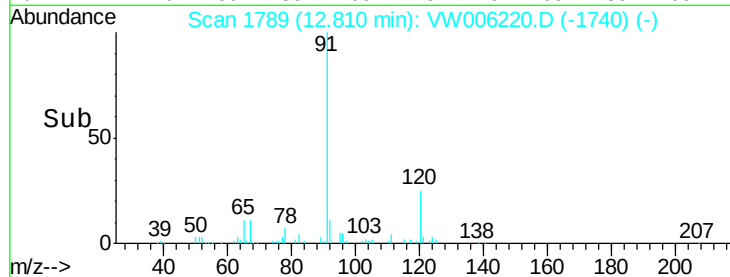
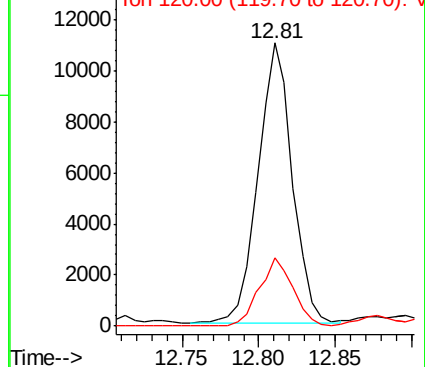
Ion Ratio Lower Upper

91 100

120 24.0 12.2 36.6



Abundance Ion 91.00 (90.70 to 91.70): VW006065.D (-1783) (-)



#79

2-Chlorotoluene

Concen: 6.26 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. -0.09 min

Lab File: VW006220.D

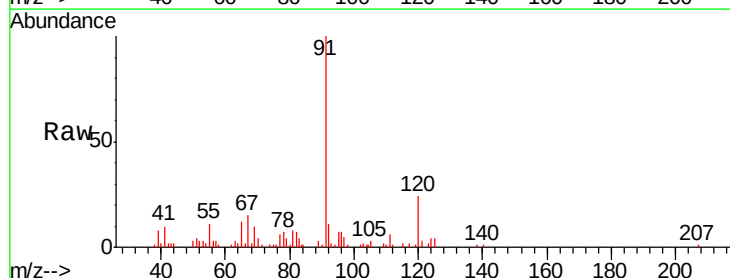
Acq: 19 Oct 2018 12:31

Tgt Ion: 91 Resp: 17002

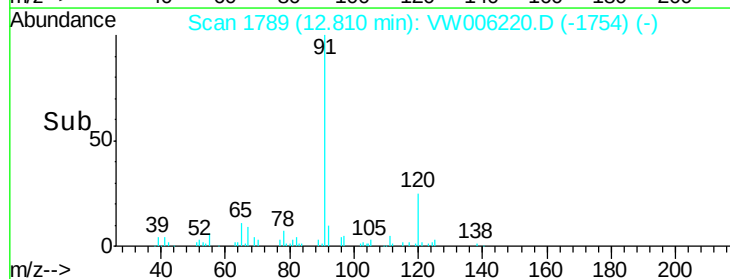
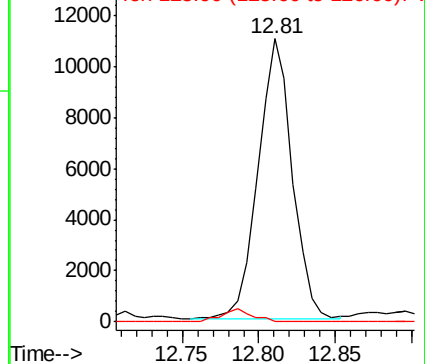
Ion Ratio Lower Upper

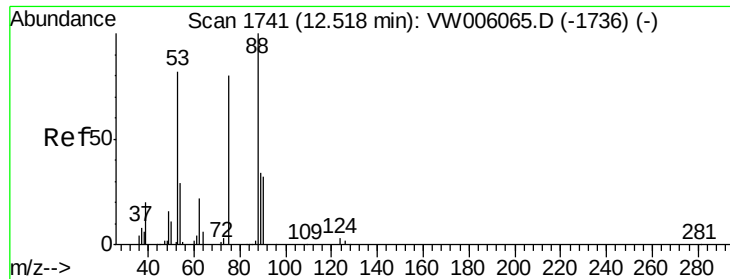
91 100

126 0.0 17.9 53.8#



Abundance Ion 91.00 (90.70 to 91.70): VW006065.D (-1796) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 181.37 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW006220.D

Acq: 19 Oct 2018 12:31

Instrument :

MSVOA_W

ClientSampleId :

JC-02-101818-ARE

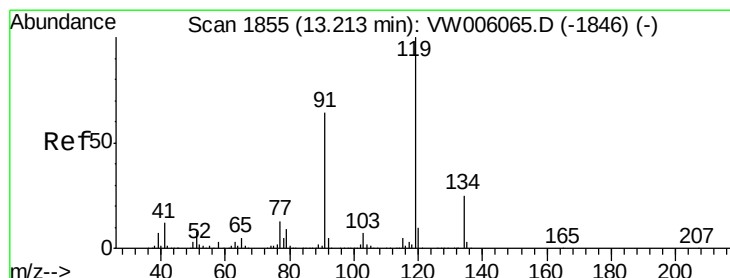
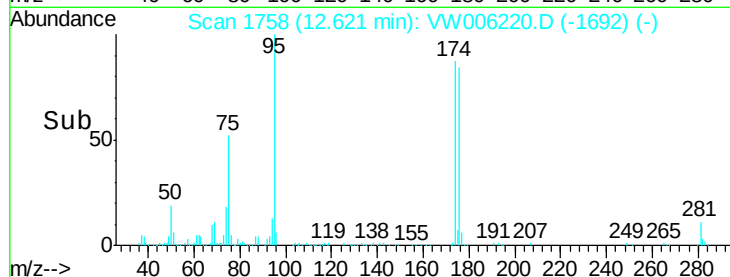
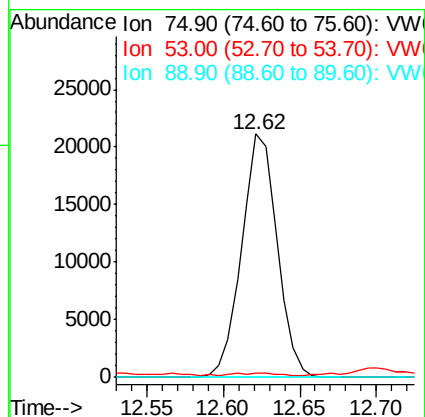
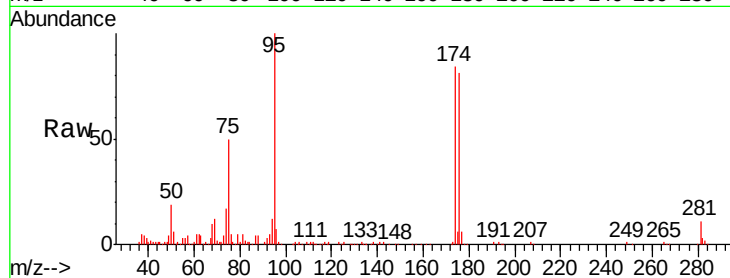
Tgt Ion: 75 Resp: 34101

Ion Ratio Lower Upper

75 100

53 1.1 79.8 119.6#

89 0.0 37.5 56.3#



#83

tert-Butylbenzene

Concen: 1.41 ug/l

RT: 13.21 min Scan# 1855

Delta R.T. -0.00 min

Lab File: VW006220.D

Acq: 19 Oct 2018 12:31

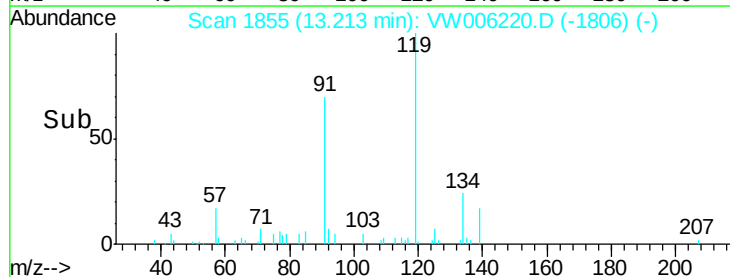
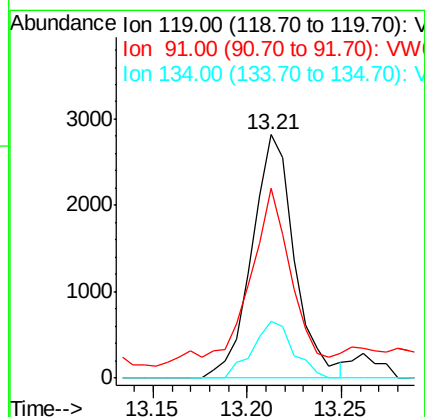
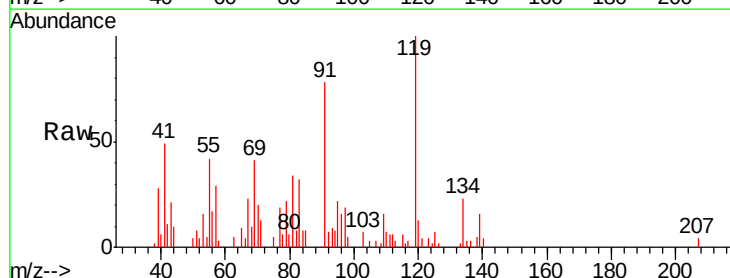
Tgt Ion: 119 Resp: 4413

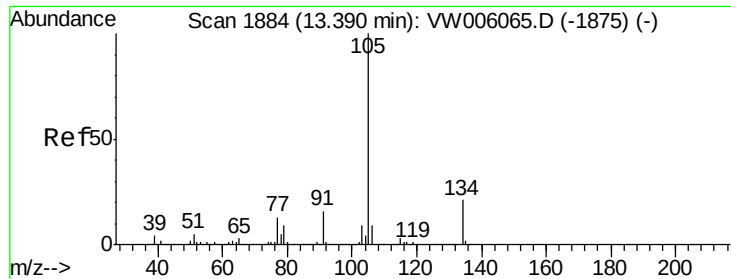
Ion Ratio Lower Upper

119 100

91 72.7 32.3 96.9

134 22.2 13.6 40.8





#85

sec-Butylbenzene

Concen: 3.17 ug/l

RT: 13.39 min Scan# 1884

Delta R.T. -0.00 min

Lab File: VW006220.D

Acq: 19 Oct 2018 12:31

Instrument :

MSVOA_W

ClientSampleId :

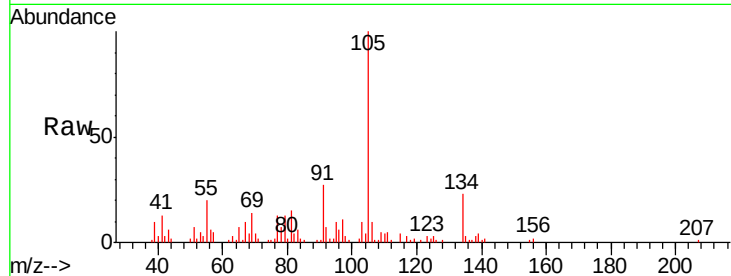
JC-02-101818-ARE

Tgt Ion: 105 Resp: 14032

Ion Ratio Lower Upper

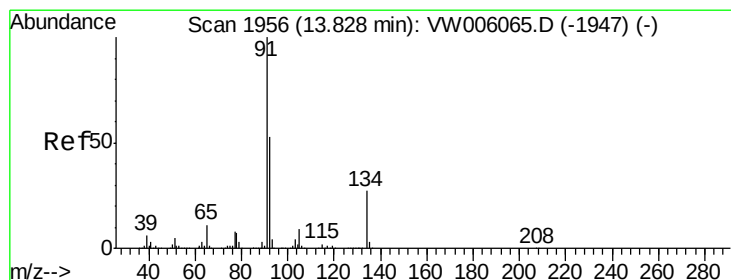
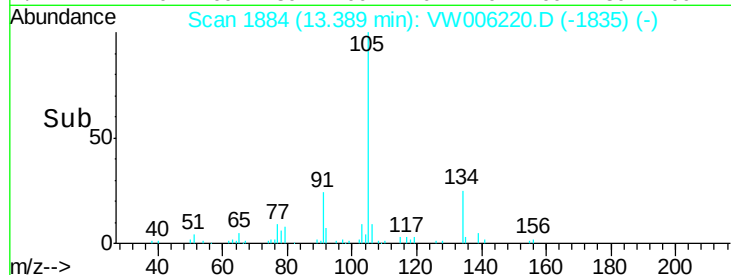
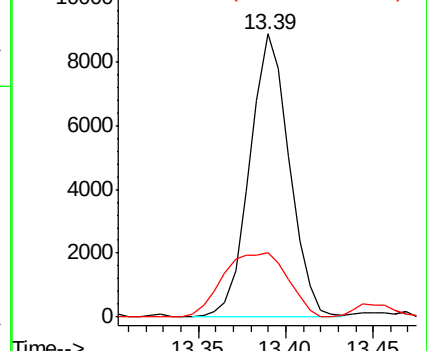
105 100

134 36.9 10.5 31.6#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#89

n-Butylbenzene

Concen: 1.49 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. -0.00 min

Lab File: VW006220.D

Acq: 19 Oct 2018 12:31

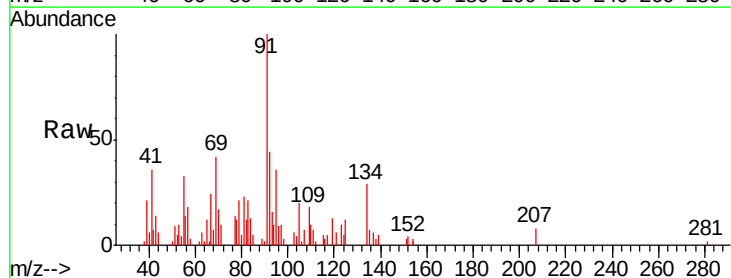
Tgt Ion: 91 Resp: 5456

Ion Ratio Lower Upper

91 100

92 41.5 26.6 79.7

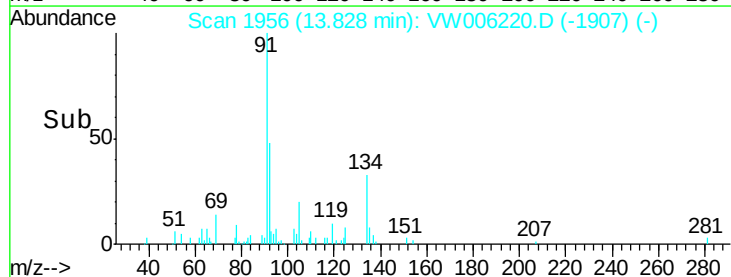
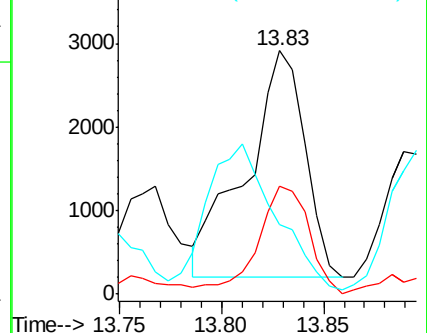
134 74.1 14.0 41.9#

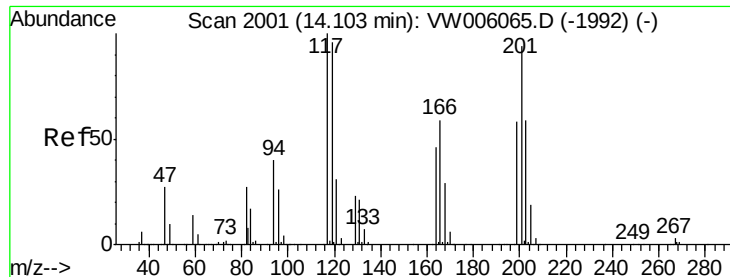


Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 7.13 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. -0.00 min

Lab File: VW006220.D

Acq: 19 Oct 2018 12:31

Instrument :

MSVOA_W

ClientSampleId :

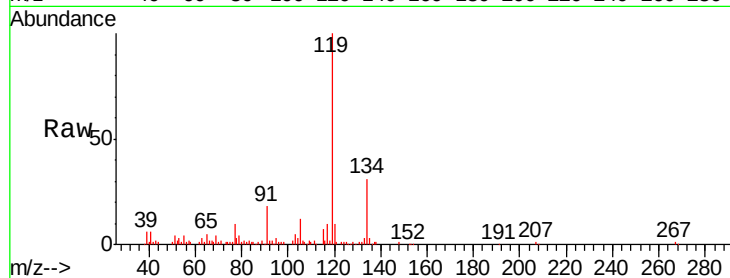
JC-02-101818-ARE

Tgt Ion:117 Resp: 4837

Ion Ratio Lower Upper

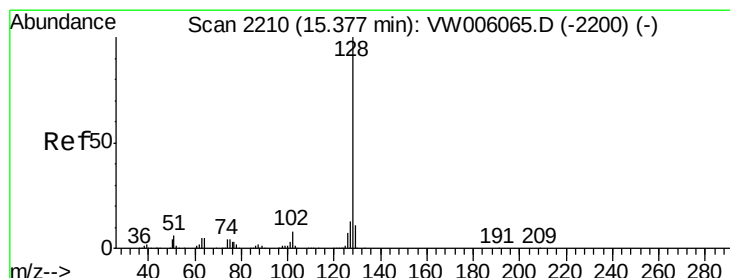
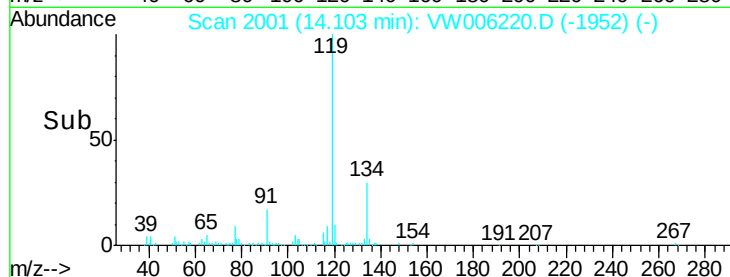
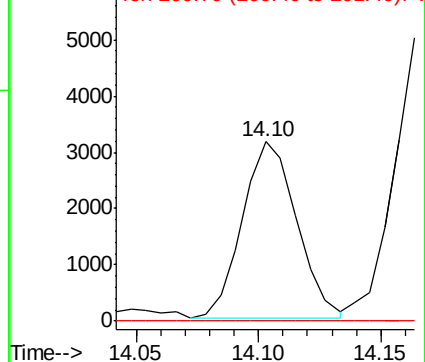
117 100

201 0.0 45.3 135.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 1.27 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. -0.00 min

Lab File: VW006220.D

Acq: 19 Oct 2018 12:31

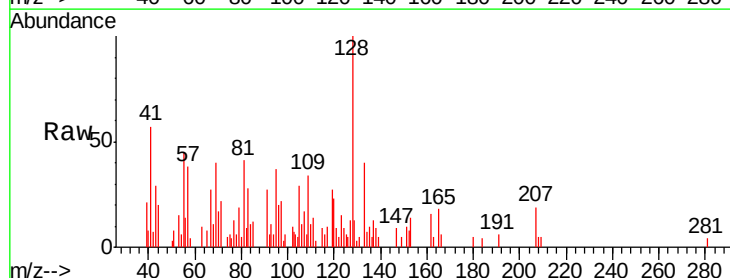
Tgt Ion:128 Resp: 2939

Ion Ratio Lower Upper

128 100

127 16.6 10.3 15.5#

129 5.4 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

