

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW020119\
 Data File : VW008490.D
 Acq On : 01 Feb 2019 19:04
 Operator : SY/VA
 Sample : K1360-01
 Misc : 4.18G/5ML/MSVOA_W/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 RBR-200053

Quant Time: Feb 02 00:46:48 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	320197	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	498829	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	438180	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	197517	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	158929	50.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.04%	
35) Dibromofluoromethane	7.88	113	154318	52.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.82%	
50) Toluene-d8	10.32	98	583296	49.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.74%	
62) 4-Bromofluorobenzene	12.62	95	206147	45.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.70%	

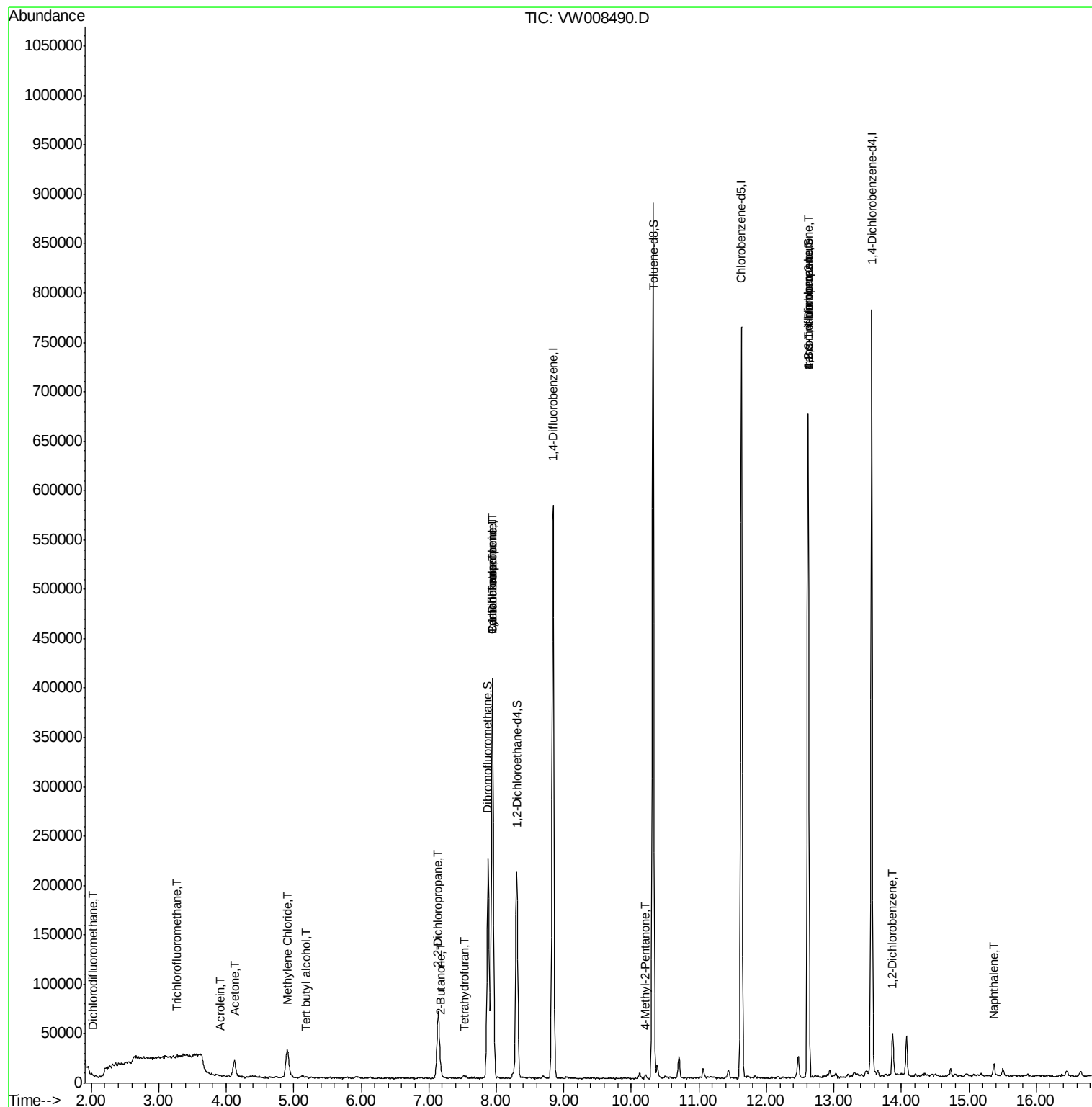
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.02	85	78	3.292	ug/l #	41
7) Trichlorofluoromethane	3.26	101	142	4.769	ug/l #	60
11) Tert butyl alcohol	5.17	59	542	2.140	ug/l #	70
13) Acrolein	3.92	56	97	4.612	ug/l #	14
16) Acetone	4.12	43	28607	40.497	ug/l	99
20) Methylene Chloride	4.90	84	21835	6.706	ug/l	95
25) 2-Butanone	7.18	43	2017	2.056	ug/l #	71
26) 2,2-Dichloropropane	7.14	77	4853	1.203	ug/l #	53
29) Tetrahydrofuran	7.52	42	2357	3.791	ug/l #	86
31) Cyclohexane	7.95	56	6639	1.075	ug/l #	1
36) 1,1-Dichloropropene	7.94	75	22916	4.863	ug/l #	42
38) Carbon Tetrachloride	7.95	117	29874	6.300	ug/l #	17
51) 4-Methyl-2-Pentanone	10.21	43	2444	1.142	ug/l	89
76) 1,2,3-Trichloropropane	12.62	75	103874	60.488	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	103874	119.468	ug/l #	12
91) 1,2-Dichlorobenzene	13.87	146	16774	2.919	ug/l	99
95) Naphthalene	15.37	128	9706	1.348	ug/l #	93

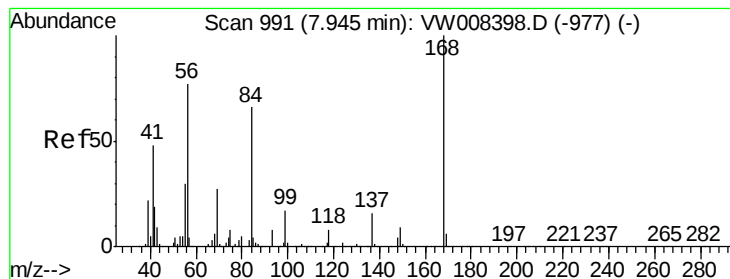
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW008490.D

Acq: 01 Feb 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

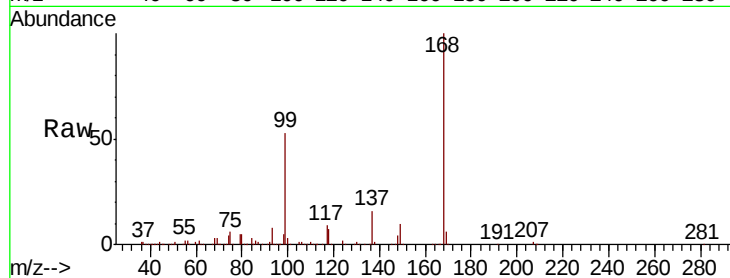
RBR-200053

Tgt Ion:168 Resp: 320197

Ion Ratio Lower Upper

168 100

99 52.8 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

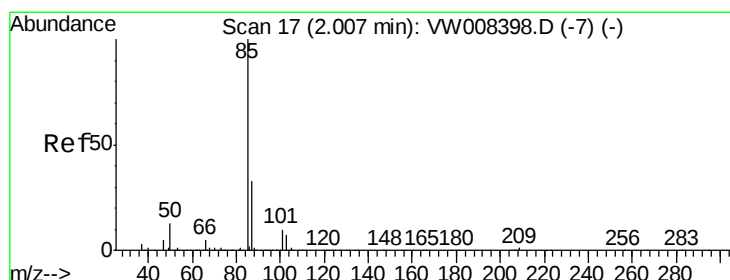
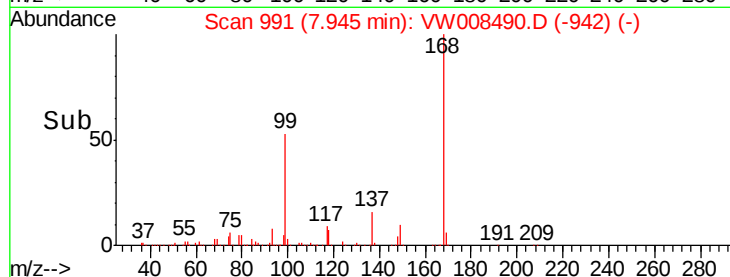
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: 3.292 ug/l

RT: 2.02 min Scan# 19

Delta R.T. 0.01 min

Lab File: VW008490.D

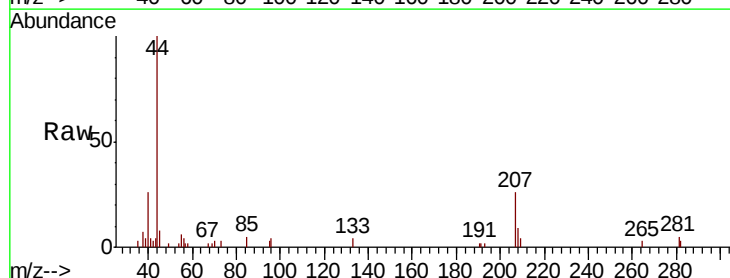
Acq: 01 Feb 2019 19:04

Tgt Ion: 85 Resp: 78

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

2.02

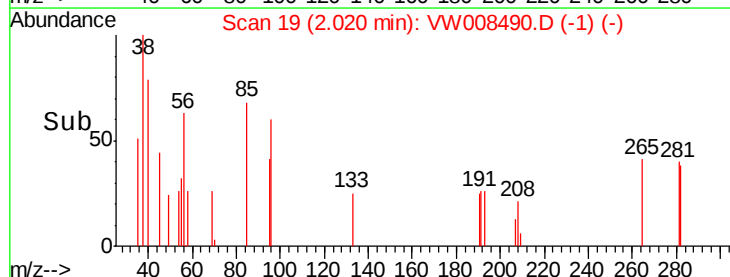
150

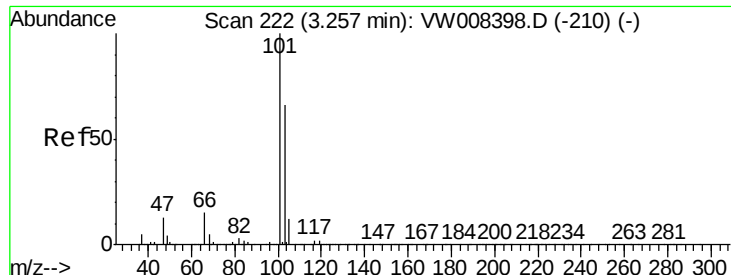
100

50

0

Time--> 1.98 2.00 2.02 2.04



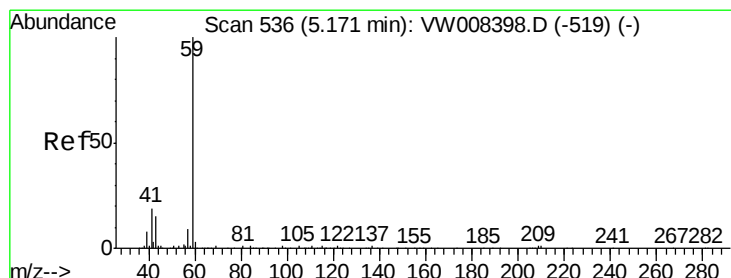
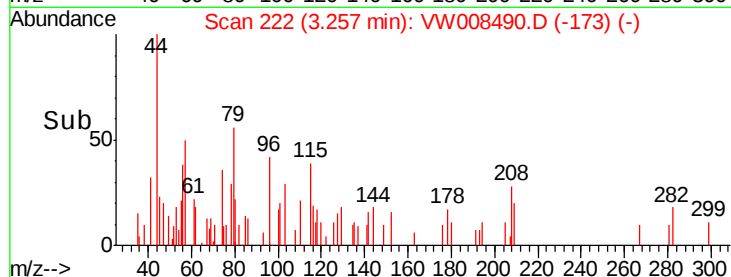
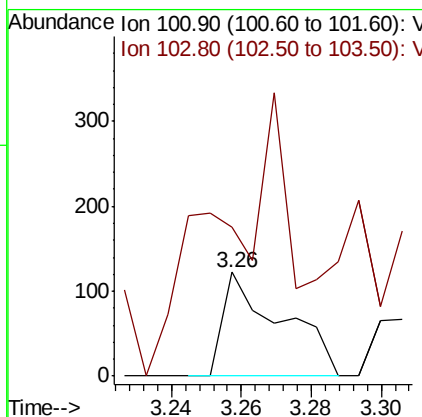
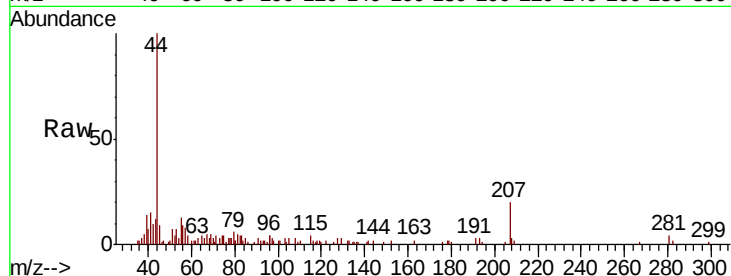


#7

Trichlorofluoromethane
 Concen: 4.769 ug/l
 RT: 3.26 min Scan# 222
 Delta R.T. 0.00 min
 Lab File: VW008490.D
 Acq: 01 Feb 2019 19:04

Instrument :
 MSVOA_W
 ClientSampleId :
 RBR-200053

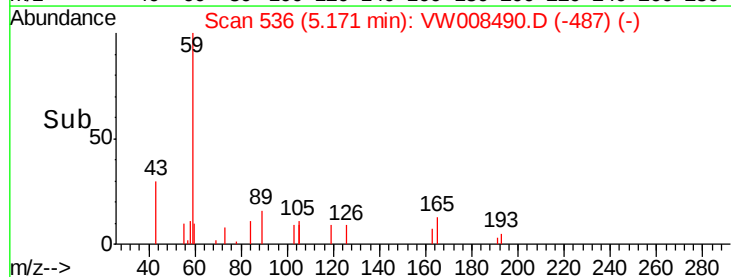
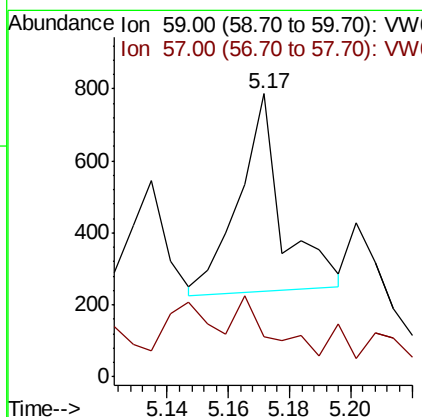
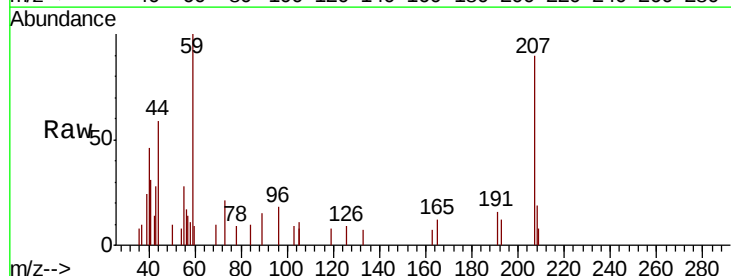
Tgt Ion:101 Resp: 142
 Ion Ratio Lower Upper
 101 100
 103 33.6 52.5 78.7#

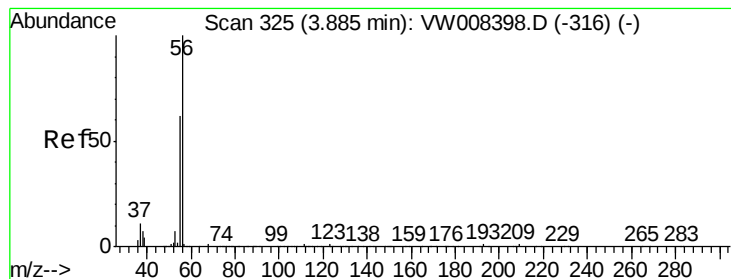


#11

Tert butyl alcohol
 Concen: 2.140 ug/l
 RT: 5.17 min Scan# 536
 Delta R.T. 0.00 min
 Lab File: VW008490.D
 Acq: 01 Feb 2019 19:04

Tgt Ion: 59 Resp: 542
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.3 13.9#





#13

Acrolein

Concen: 4.612 ug/l

RT: 3.92 min Scan# 331

Delta R.T. 0.04 min

Lab File: VW008490.D

Acq: 01 Feb 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

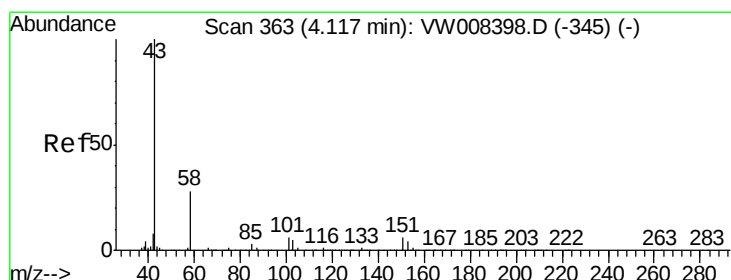
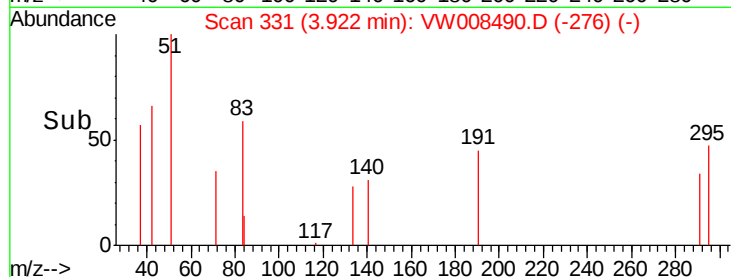
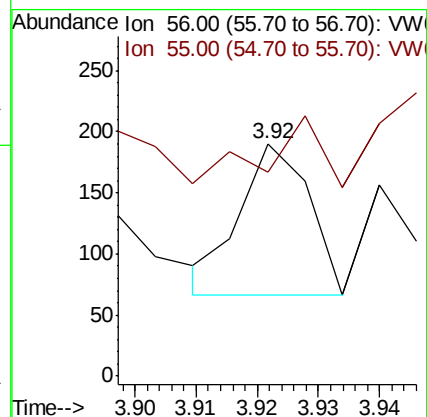
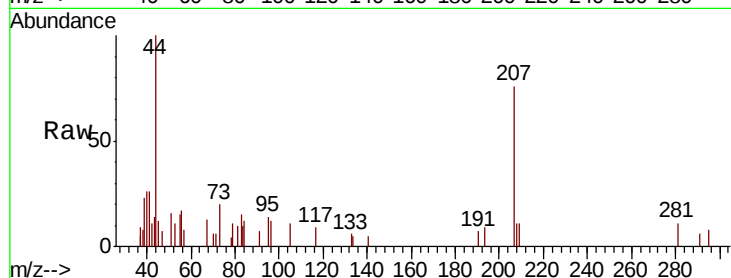
RBR-200053

Tgt Ion: 56 Resp: 97

Ion Ratio Lower Upper

56 100

55 0.0 56.7 85.1#



#16

Acetone

Concen: 40.497 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW008490.D

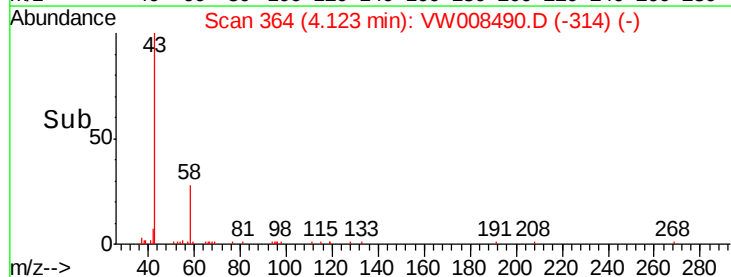
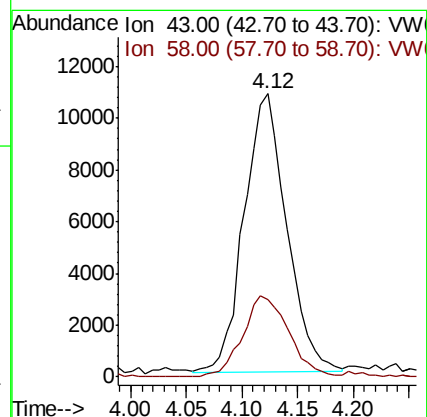
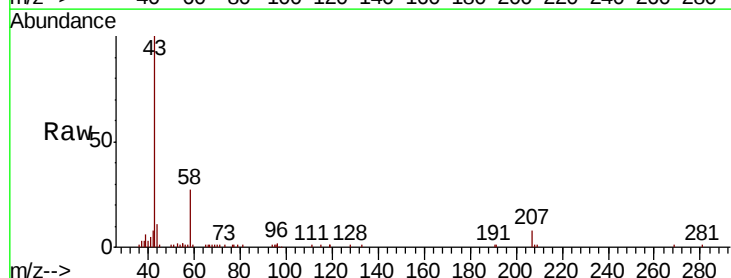
Acq: 01 Feb 2019 19:04

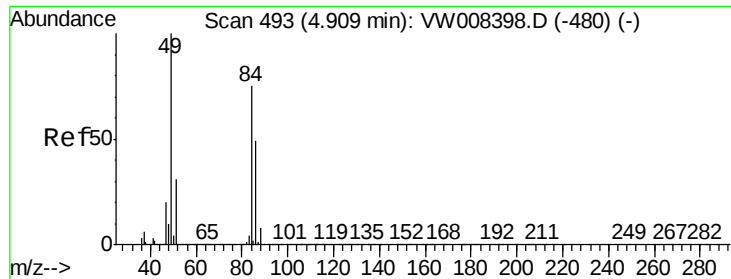
Tgt Ion: 43 Resp: 28607

Ion Ratio Lower Upper

43 100

58 27.8 22.6 34.0





#20

Methylene Chloride

Concen: 6.706 ug/l

RT: 4.90 min Scan# 492

Delta R.T. -0.01 min

Lab File: VW008490.D

Acq: 01 Feb 2019 19:04

Instrument :

MSVOA_W

ClientSampled :

RBR-200053

Tgt Ion: 84 Resp: 21835

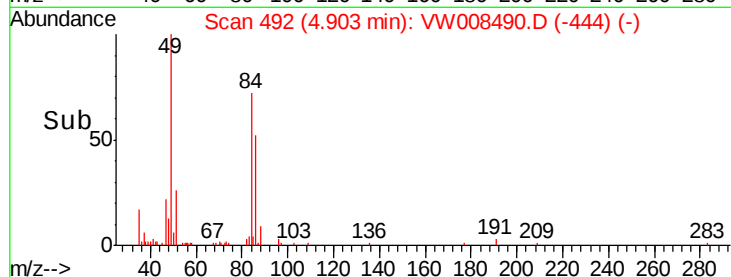
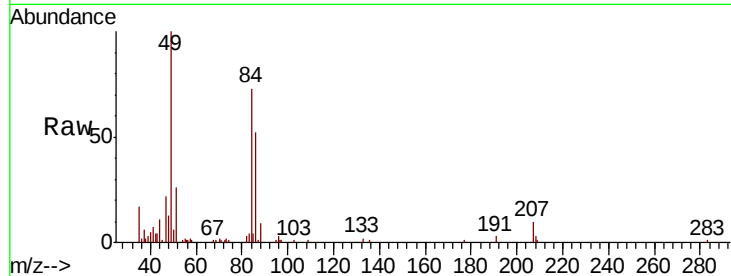
Ion Ratio Lower Upper

84 100

49 136.6 106.8 160.2

51 36.2 32.9 49.3

86 70.4 52.2 78.2



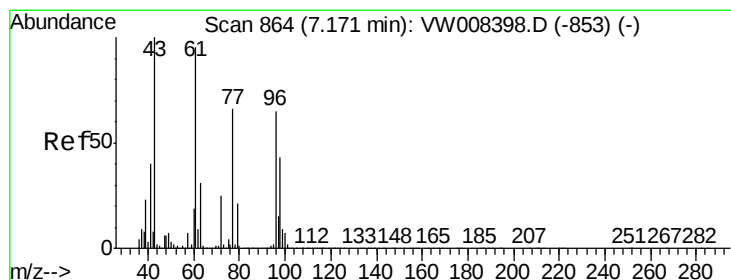
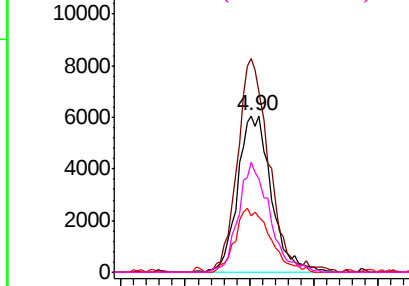
Abundance

Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#25

2-Butanone

Concen: 2.056 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW008490.D

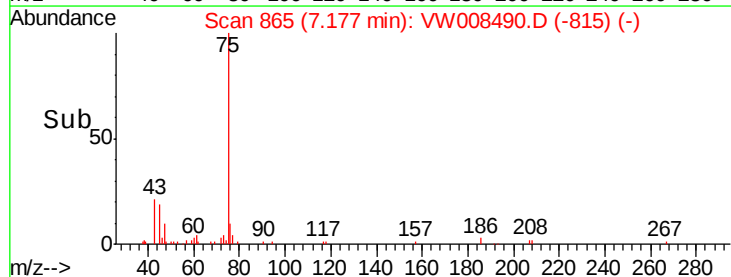
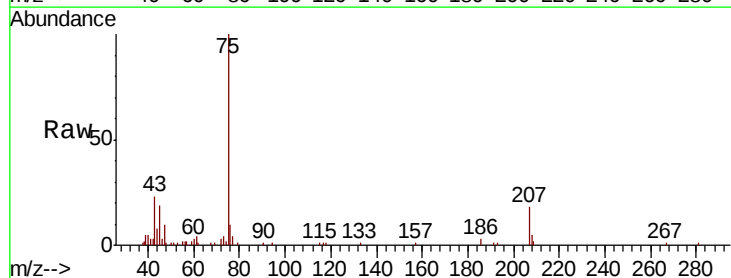
Acq: 01 Feb 2019 19:04

Tgt Ion: 43 Resp: 2017

Ion Ratio Lower Upper

43 100

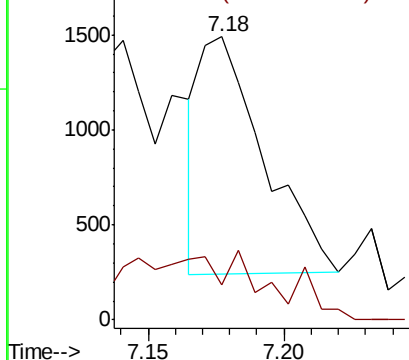
72 10.5 20.1 30.1#

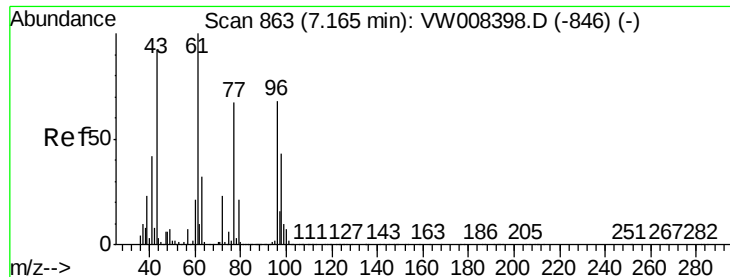


Abundance

Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

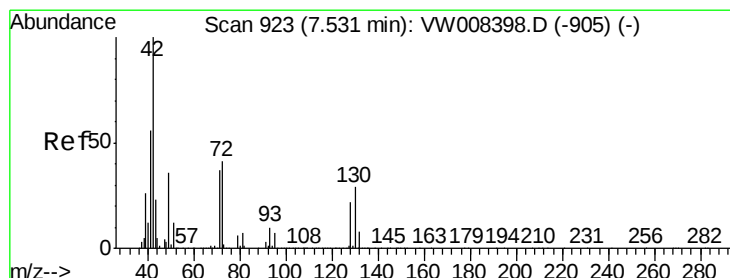
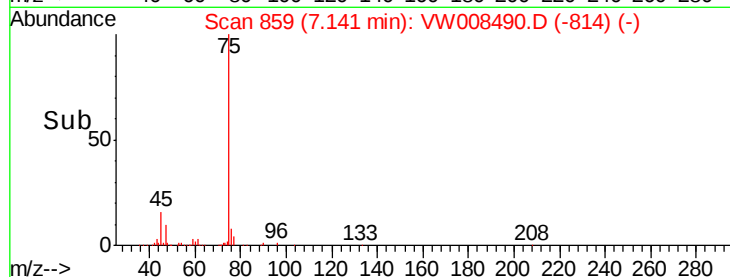
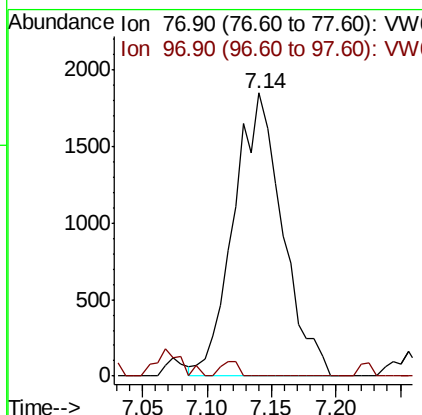
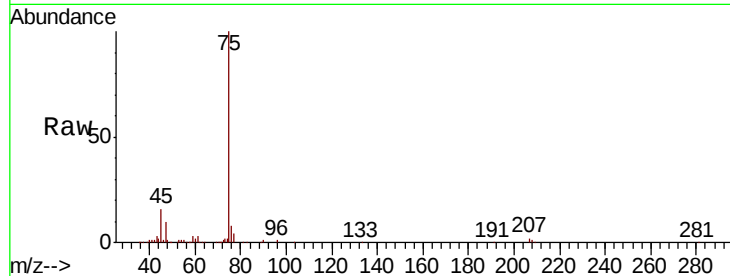




#26
 2,2-Dichloropropane
 Concen: 1.203 ug/l
 RT: 7.14 min Scan# 859
 Delta R.T. -0.02 min
 Lab File: VW008490.D
 Acq: 01 Feb 2019 19:04

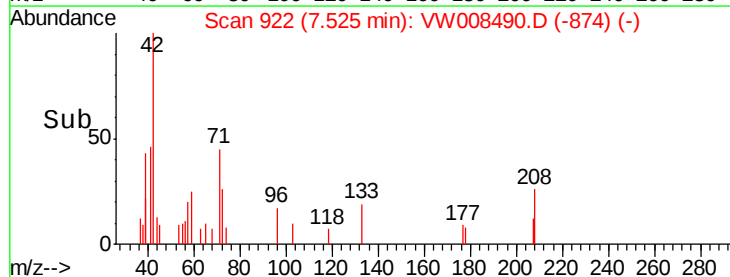
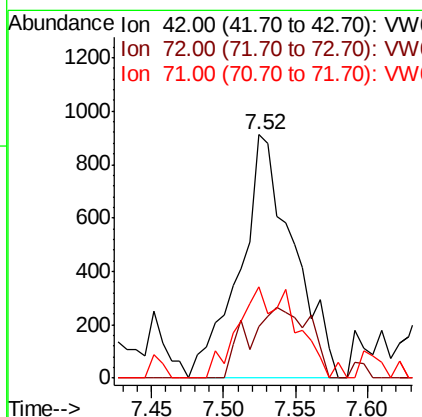
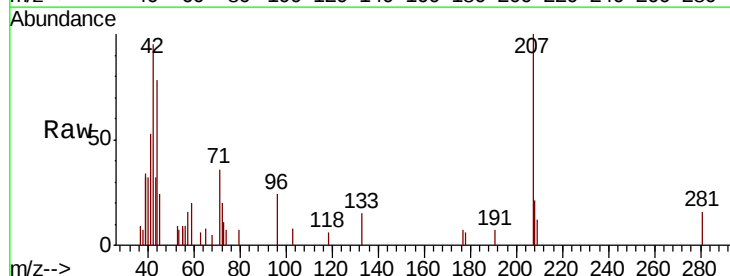
Instrument :
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 RBR-200053

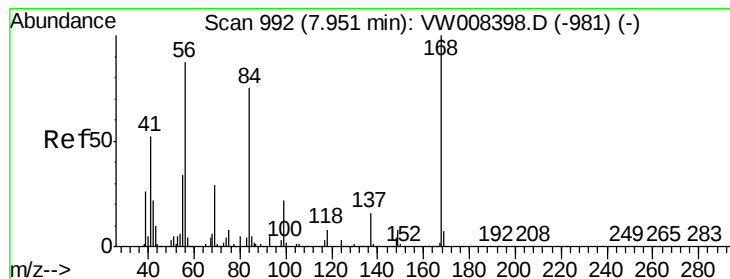
Tgt Ion: 77 Resp: 4853
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.5 34.5#



#29
 Tetrahydrofuran
 Concen: 3.791 ug/l
 RT: 7.52 min Scan# 922
 Delta R.T. -0.01 min
 Lab File: VW008490.D
 Acq: 01 Feb 2019 19:04

Tgt Ion: 42 Resp: 2357
 Ion Ratio Lower Upper
 42 100
 72 26.5 31.9 47.9#
 71 40.8 29.9 44.9





#31

Cyclohexane

Concen: 1.075 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW008490.D

Acq: 01 Feb 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

RBR-200053

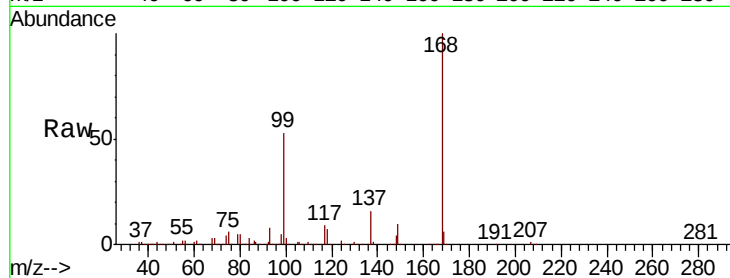
Tgt Ion: 56 Resp: 6639

Ion Ratio Lower Upper

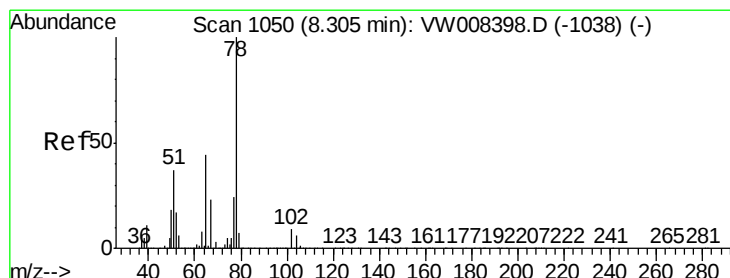
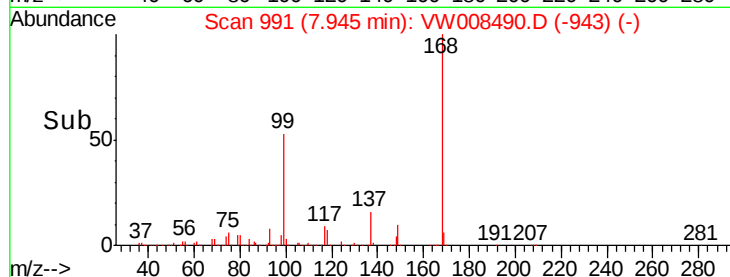
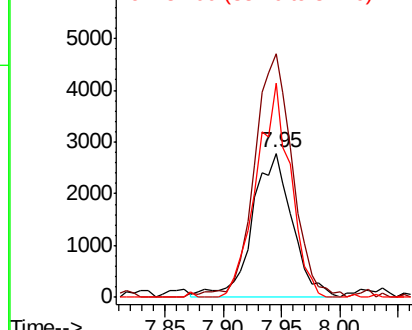
56 100

69 166.1 26.4 39.6#

84 149.1 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: 50.524 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW008490.D

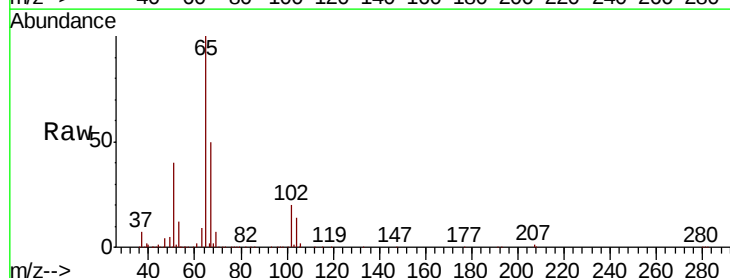
Acq: 01 Feb 2019 19:04

Tgt Ion: 65 Resp: 158929

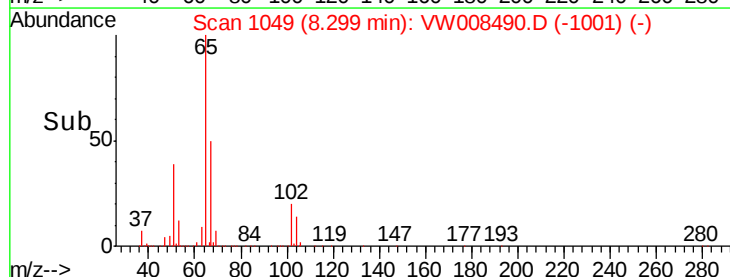
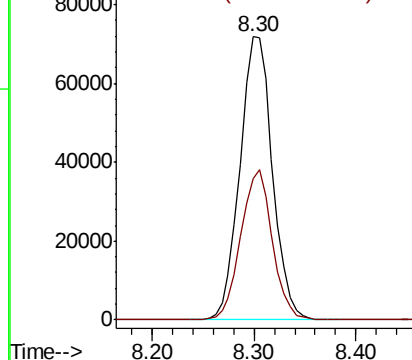
Ion Ratio Lower Upper

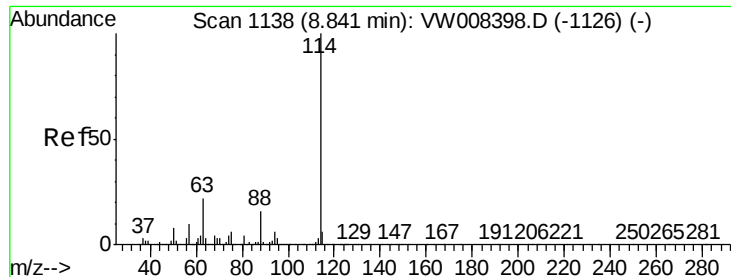
65 100

67 51.6 0.0 104.0



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

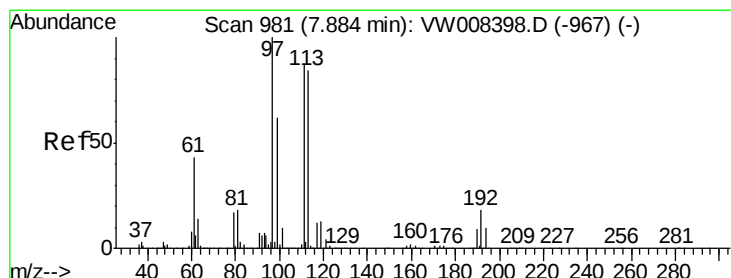
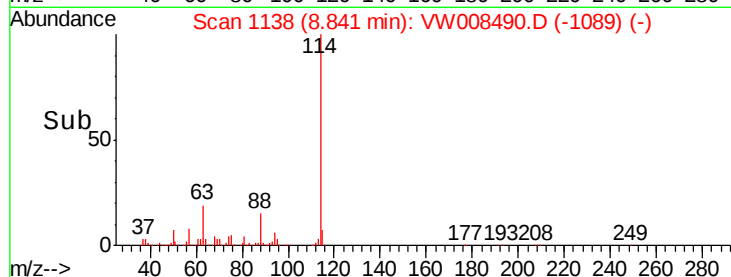
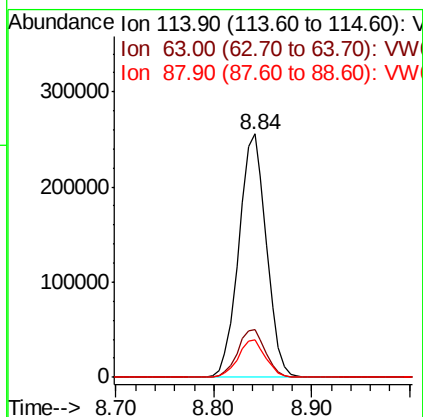
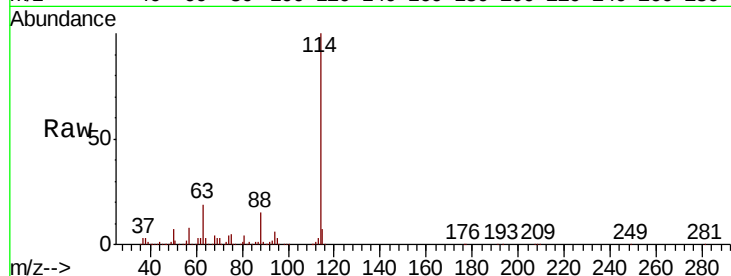




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW008490.D
 Acq: 01 Feb 2019 19:04

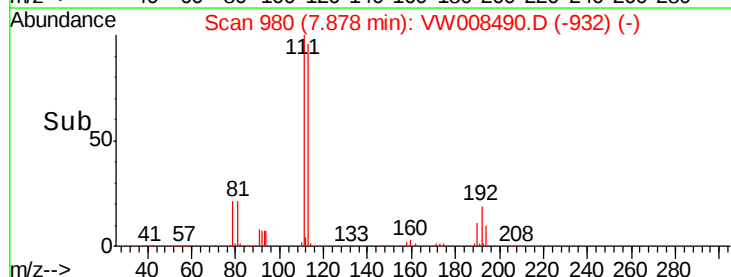
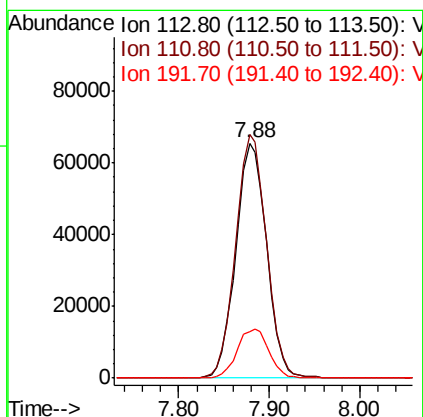
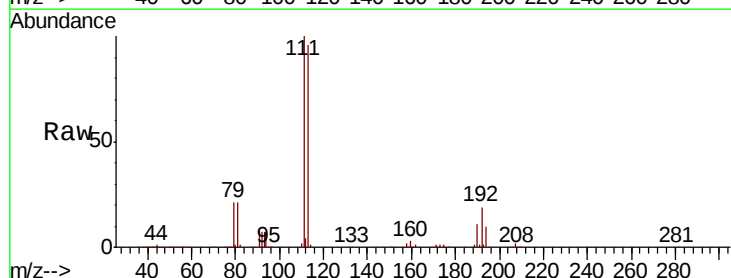
Instrument :
 MSVOA_W
 ClientSampleId :
 RBR-200053

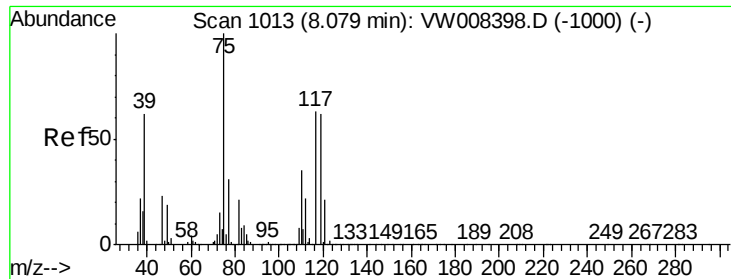
Tgt Ion:	114	Resp:	498829
Ion	Ratio	Lower	Upper
114	100		
63	19.5	0.0	43.6
88	15.2	0.0	31.8



#35
 Dibromofluoromethane
 Concen: 52.906 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.01 min
 Lab File: VW008490.D
 Acq: 01 Feb 2019 19:04

Tgt Ion:	113	Resp:	154318
Ion	Ratio	Lower	Upper
113	100		
111	103.8	81.0	121.4
192	21.5	16.8	25.2





#36

1,1-Dichloropropene

Concen: 4.863 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW008490.D

Acq: 01 Feb 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

RBR-200053

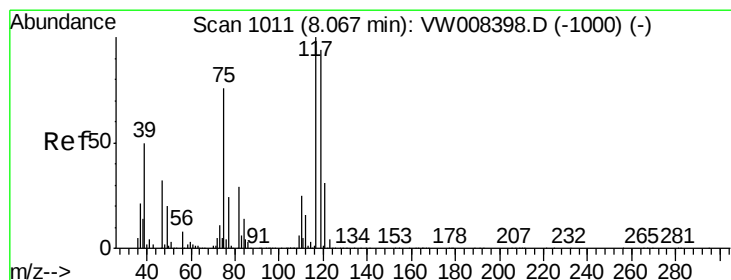
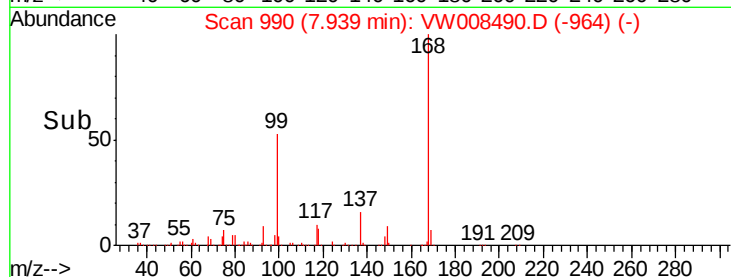
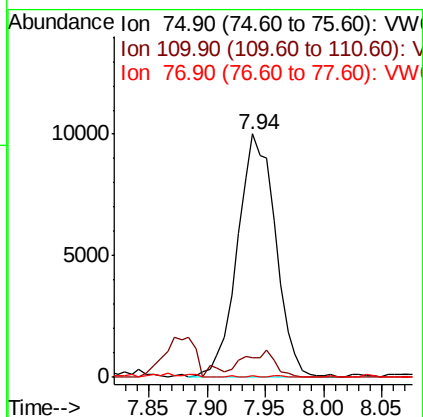
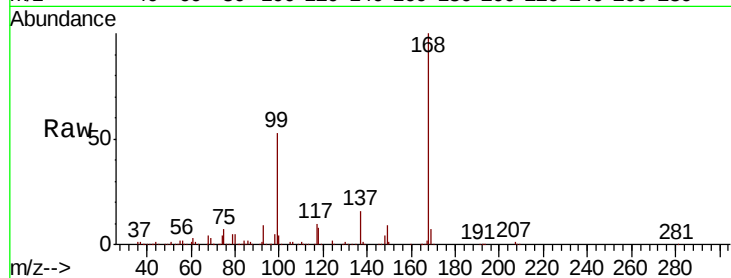
Tgt Ion: 75 Resp: 22916

Ion Ratio Lower Upper

75 100

110 0.0 17.3 52.0#

77 0.1 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 6.300 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW008490.D

Acq: 01 Feb 2019 19:04

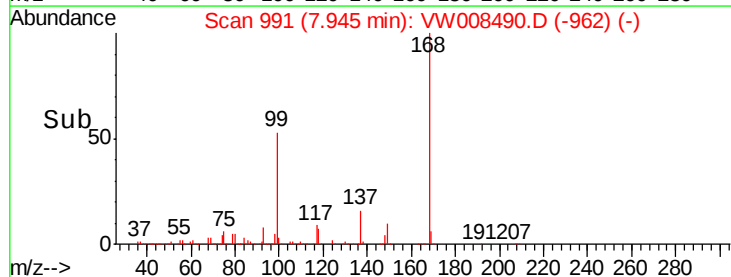
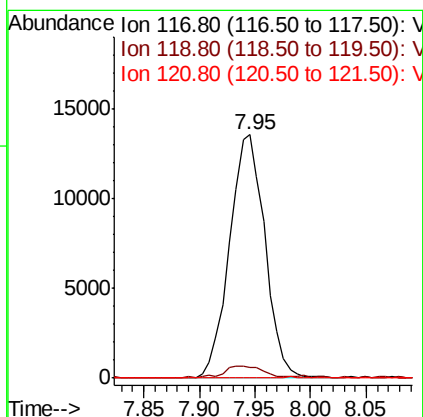
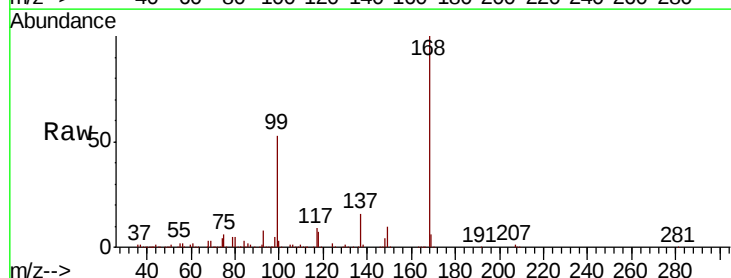
Tgt Ion: 117 Resp: 29874

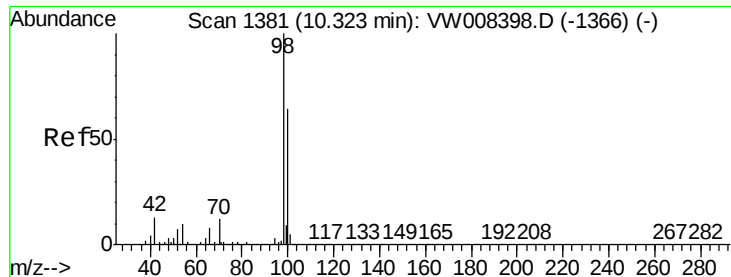
Ion Ratio Lower Upper

117 100

119 4.6 75.0 112.4#

121 0.0 24.9 37.3#





#50

Toluene-d8

Concen: 49.869 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008490.D

Acq: 01 Feb 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

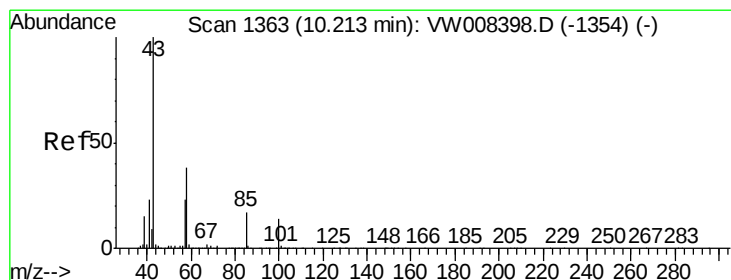
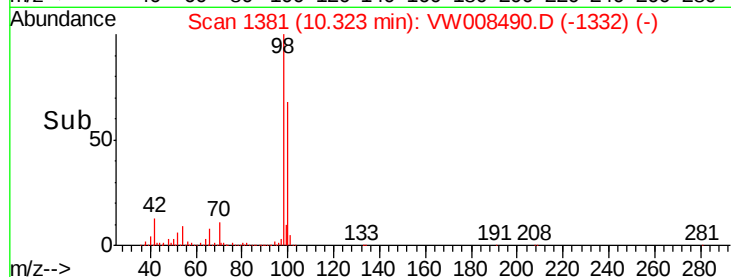
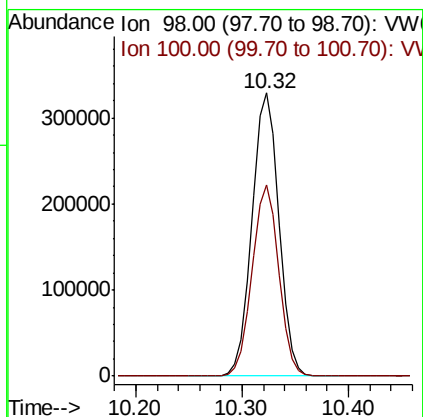
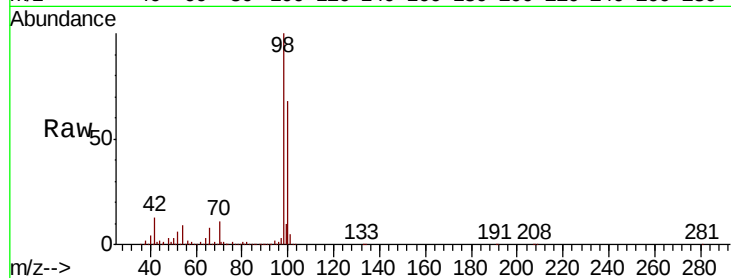
RBR-200053

Tgt Ion: 98 Resp: 583296

Ion Ratio Lower Upper

98 100

100 67.0 52.6 78.8



#51

4-Methyl-2-Pentanone

Concen: 1.142 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW008490.D

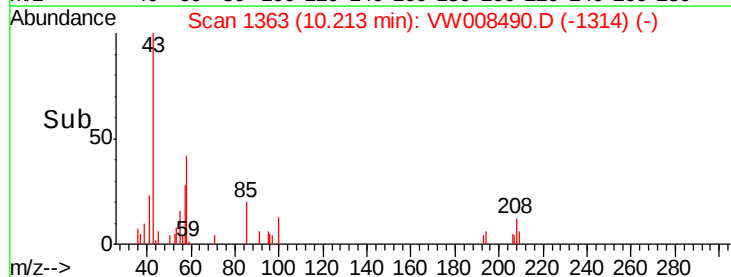
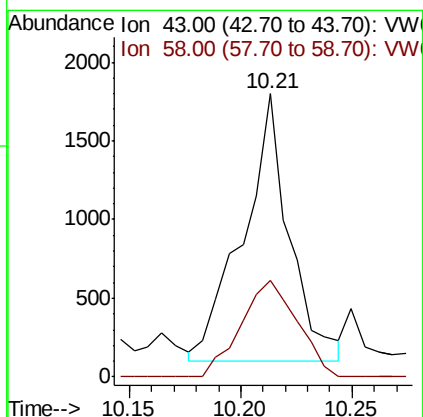
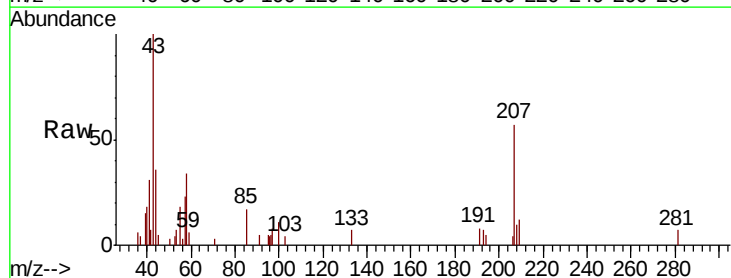
Acq: 01 Feb 2019 19:04

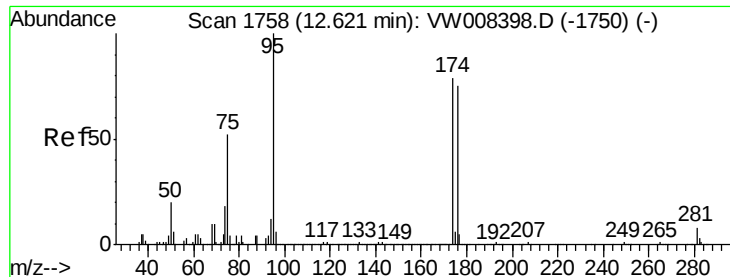
Tgt Ion: 43 Resp: 2444

Ion Ratio Lower Upper

43 100

58 43.9 29.7 44.5





#62

4-Bromofluorobenzene

Concen: 45.851 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008490.D

Acq: 01 Feb 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

RBR-200053

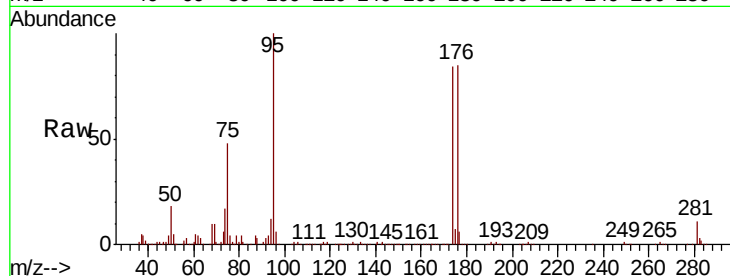
Tgt Ion: 95 Resp: 206147

Ion Ratio Lower Upper

95 100

174 84.9 0.0 157.6

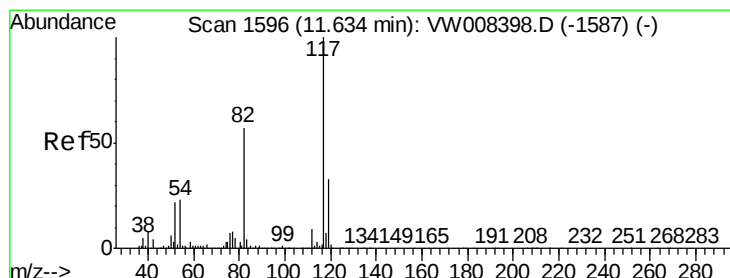
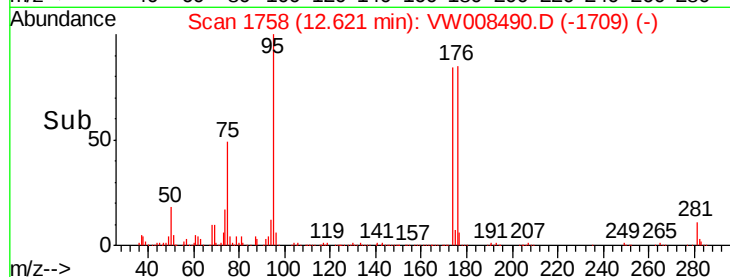
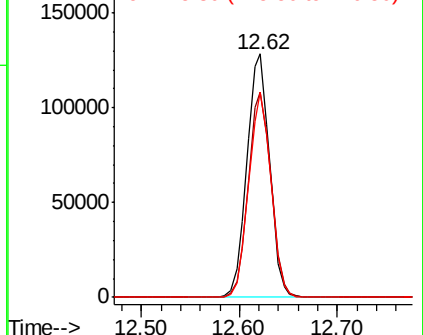
176 82.7 0.0 151.8



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW008490.D

Acq: 01 Feb 2019 19:04

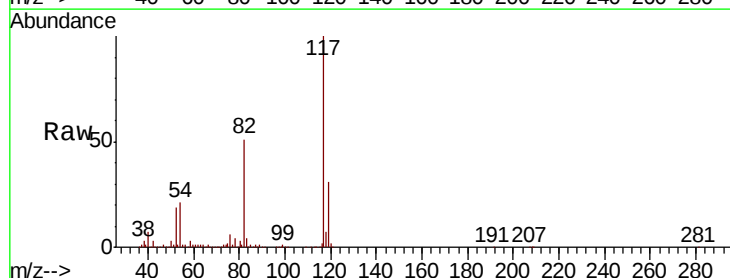
Tgt Ion: 117 Resp: 438180

Ion Ratio Lower Upper

117 100

82 51.5 45.4 68.0

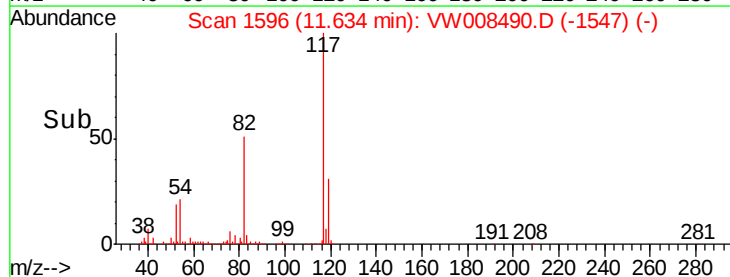
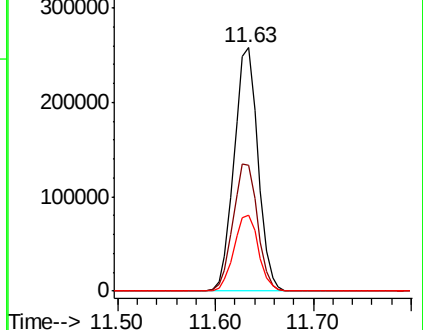
119 31.1 26.2 39.4

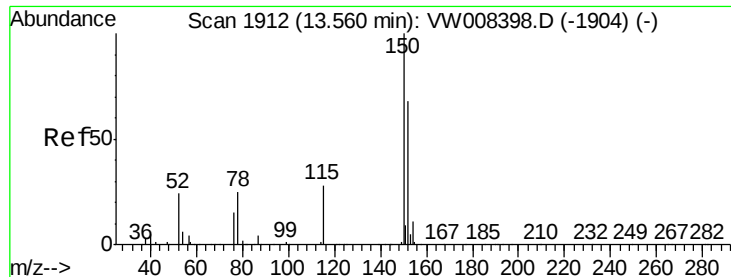


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW



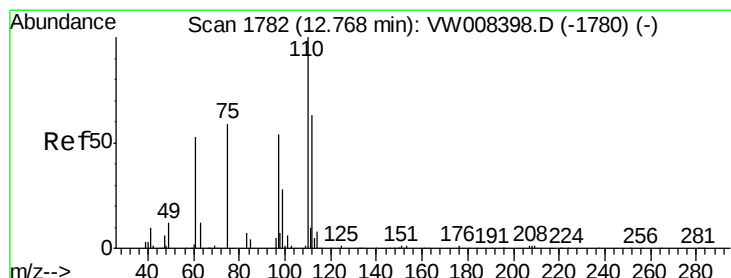
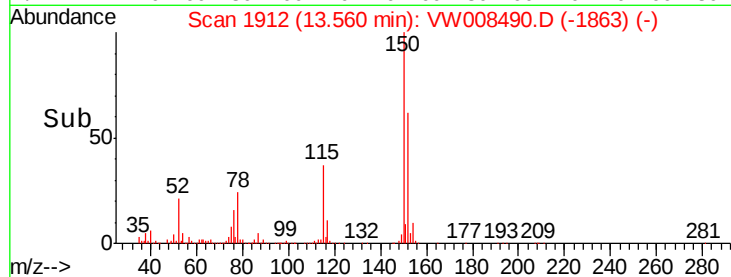
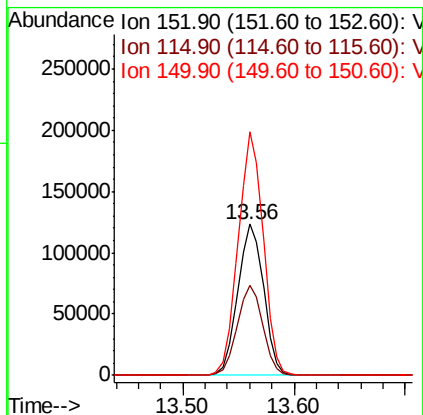
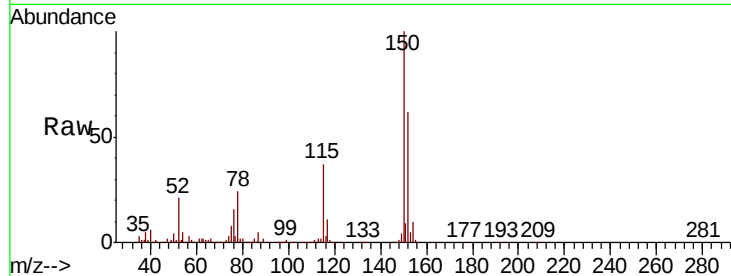


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW008490.D
Acq: 01 Feb 2019 19:04

Instrument :
MSVOA_W
ClientSampleId :
RBR-200053

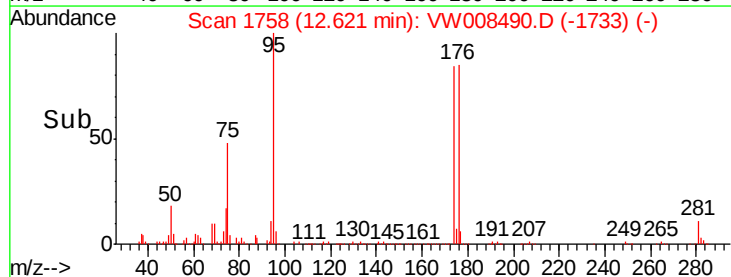
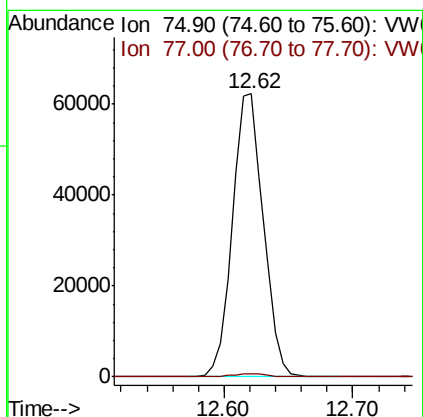
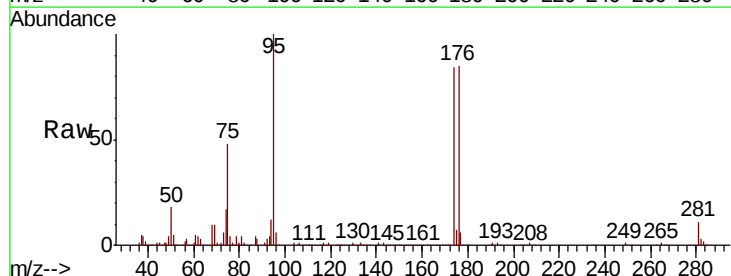
Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.9	29.9	89.7
150	156.7	0.0	351.4

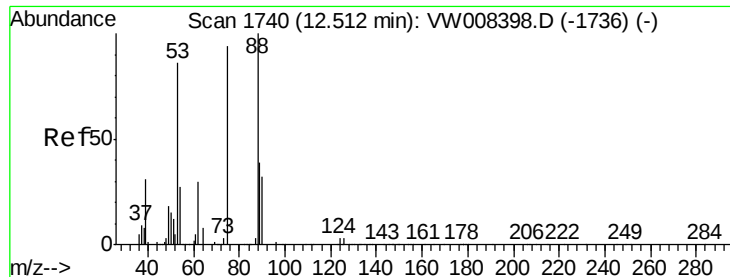


#76

1,2,3-Trichloropropane
Concen: 60.488 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.15 min
Lab File: VW008490.D
Acq: 01 Feb 2019 19:04

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.6	180.7	542.1





#81

trans-1,4-Dichloro-2-butene

Concen: 119.468 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008490.D

Acq: 01 Feb 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

RBR-200053

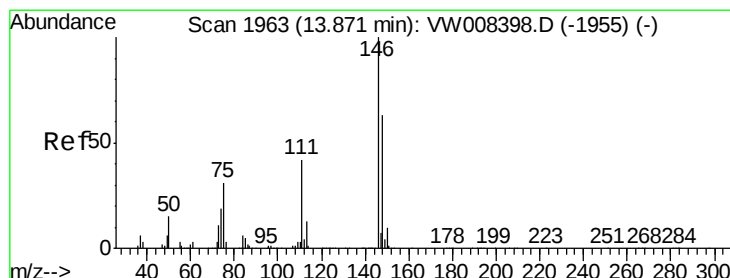
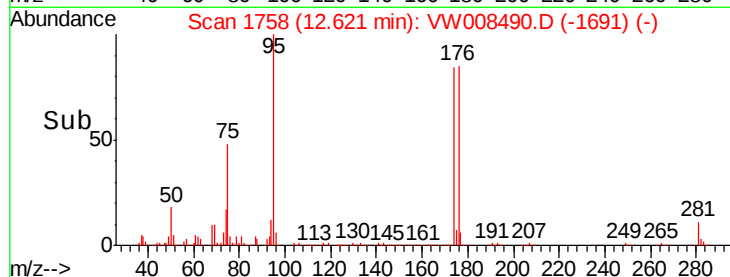
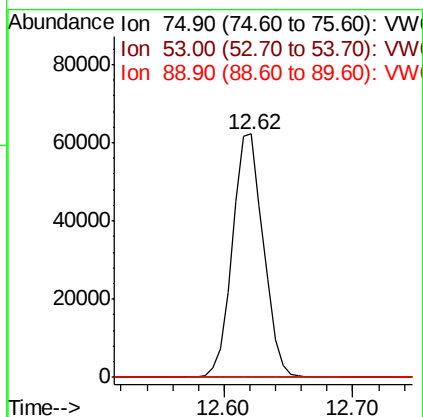
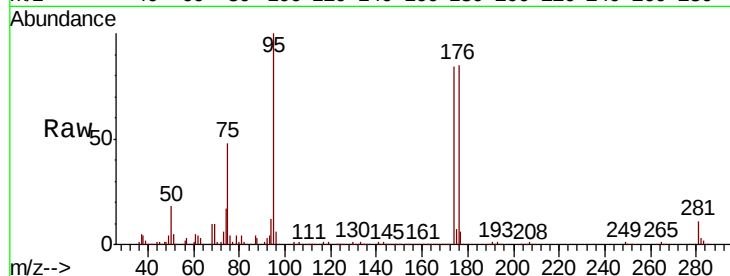
Tgt Ion: 75 Resp: 103874

Ion Ratio Lower Upper

75 100

53 0.1 76.0 114.0#

89 0.0 35.4 53.0#



#91

1,2-Dichlorobenzene

Concen: 2.919 ug/l

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW008490.D

Acq: 01 Feb 2019 19:04

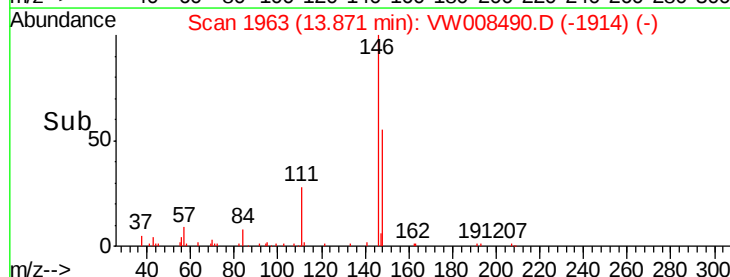
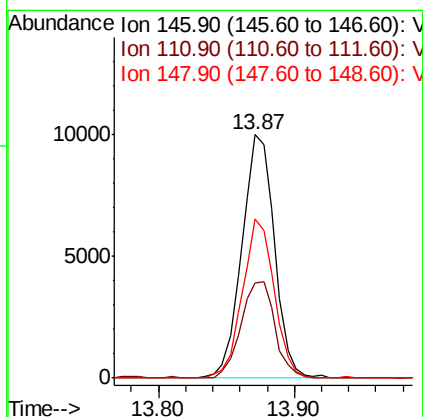
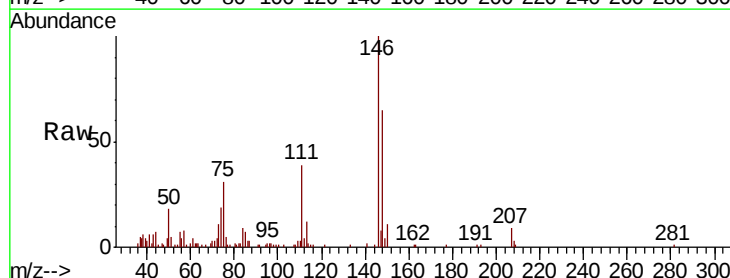
Tgt Ion: 146 Resp: 16774

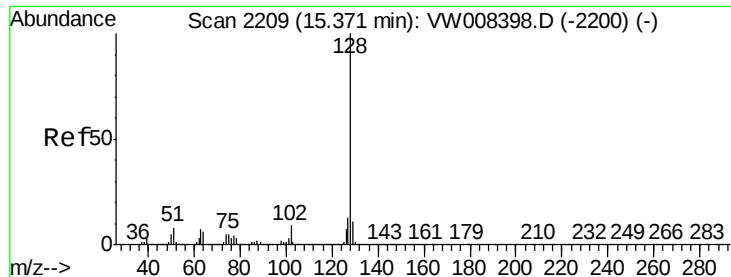
Ion Ratio Lower Upper

146 100

111 41.0 21.1 63.3

148 63.4 31.9 95.5





#95

Naphthalene

Concen: 1.348 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW008490.D

Acq: 01 Feb 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

RBR-200053

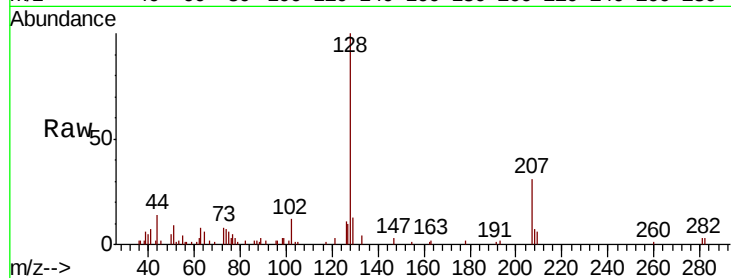
Tgt Ion:128 Resp: 9706

Ion Ratio Lower Upper

128 100

127 16.0 10.6 15.8#

129 13.9 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

