

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW112818\
 Data File : VW007108.D
 Acq On : 28 Nov 2018 13:01
 Operator : VAY/AP
 Sample : J6080-01
 Misc : 11.31G/5ML/MSVOA W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 RCA-04

Quant Time: Nov 29 04:35:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W112118S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 21 03:23:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	11471	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	18551	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	15521	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	5667	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	5391	48.00	ug/l	0.00
Spiked Amount			Recovery	=	96.00%	
35) Dibromofluoromethane	7.88	113	4865	46.44	ug/l	0.00
Spiked Amount			Recovery	=	92.88%	
50) Toluene-d8	10.32	98	18738	40.50	ug/l	0.00
Spiked Amount			Recovery	=	81.00%	
62) 4-Bromofluorobenzene	12.62	95	6090	33.45	ug/l	0.00
Spiked Amount			Recovery	=	66.90%	

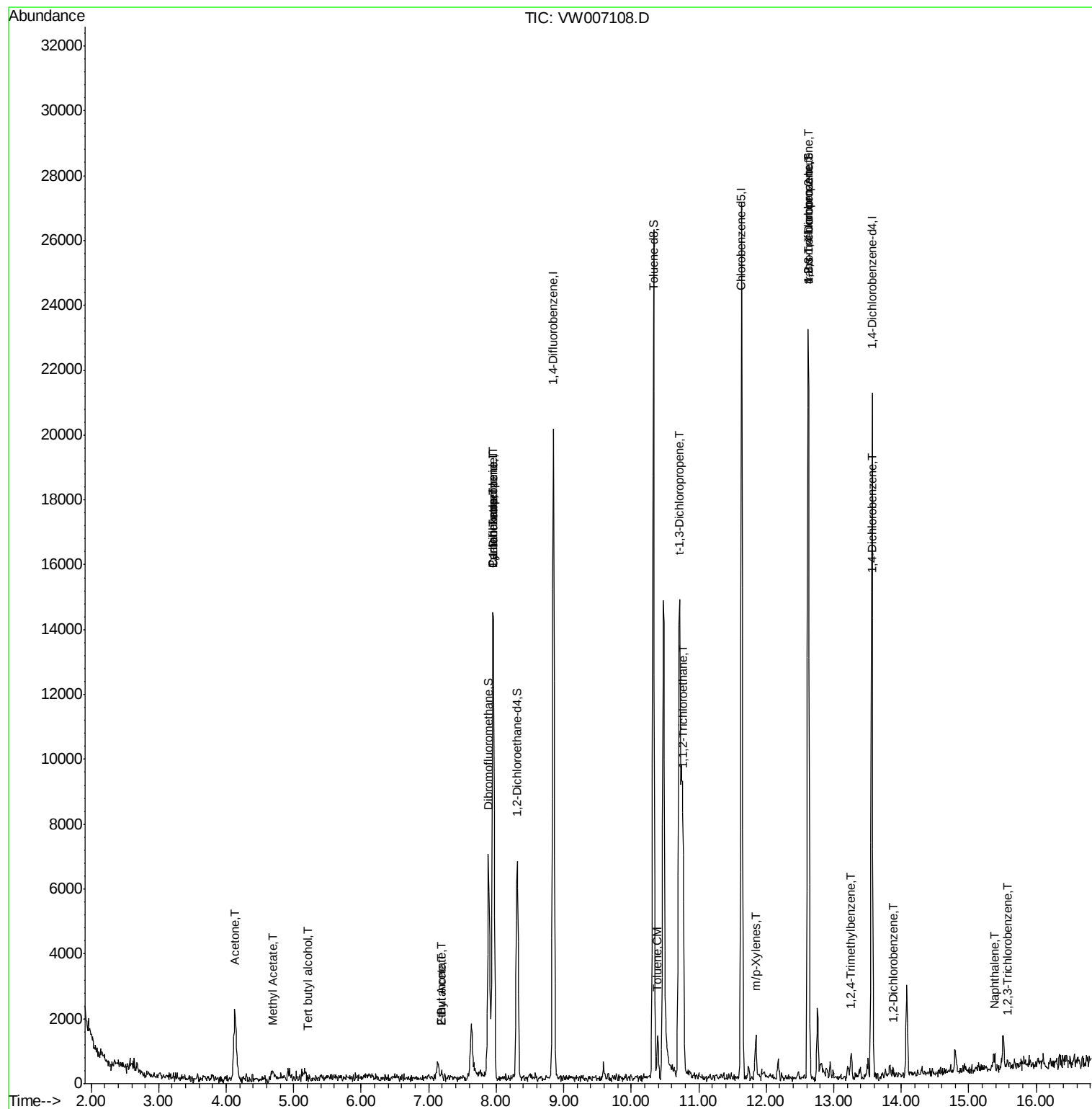
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.21	59	48	6.566	ug/l #	71
16) Acetone	4.13	43	3997	245.137	ug/l	92
18) Methyl Acetate	4.68	43	643	11.074	ug/l #	50
20) Methylene Chloride	4.92	84	73	Below Cal	#	8
25) 2-Butanone	7.19	43	279	9.991	ug/l #	48
31) Cyclohexane	7.96	56	265	1.225	ug/l #	37
36) 1,1-Dichloropropene	7.96	75	844	4.656	ug/l #	41
37) Ethyl Acetate	7.19	43	279	4.247	ug/l #	69
38) Carbon Tetrachloride	7.95	117	933	5.375	ug/l #	13
52) Toluene	10.39	92	687	2.063	ug/l	90
53) t-1,3-Dichloropropene	10.72	75	257	1.667	ug/l #	44
55) 1,1,2-Trichloroethane	10.77	97	97	1.091	ug/l #	15
68) m/p-Xylenes	11.85	106	565	2.420	ug/l	88
76) 1,2,3-Trichloropropane	12.63	75	3039	68.245	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	3039	171.335	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.26	105	794	2.092	ug/l	93
88) 1,4-Dichlorobenzene	13.58	146	239	1.241	ug/l #	72
91) 1,2-Dichlorobenzene	13.88	146	189	1.117	ug/l #	53
95) Naphthalene	15.38	128	592	2.923	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.57	180	124	1.339	ug/l #	61

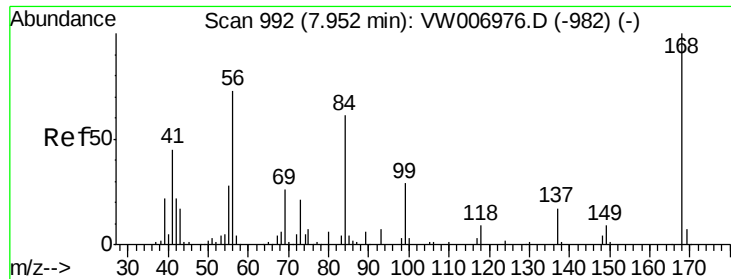
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Nov 21 03:23:02 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW007108.D

Acq: 28 Nov 2018 13:01

Instrument :

MSVOA_W

ClientSampleId :

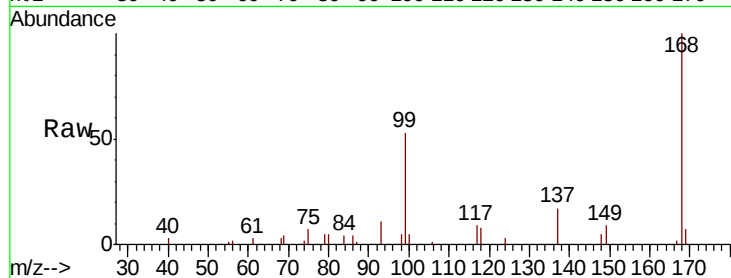
RCA-04

Tot Ion:168 Resp: 11471

Ion Ratio Lower Upper

168 100

99 53.3 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

6000

5000

4000

3000

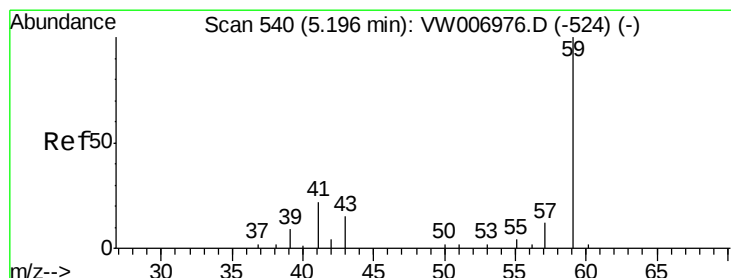
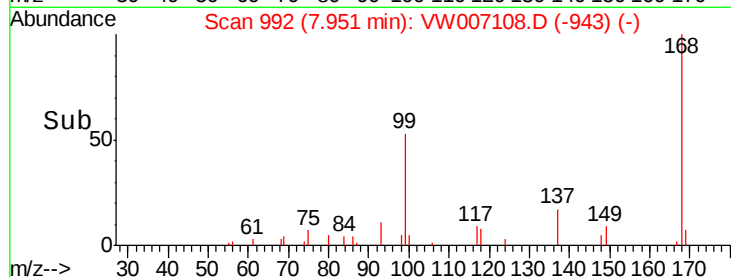
2000

1000

0

Time-->

7.85 7.90 7.95 8.00 8.05



#11

Tert butyl alcohol

Concen: 6.566 ug/l

RT: 5.21 min Scan# 542

Delta R.T. 0.01 min

Lab File: VW007108.D

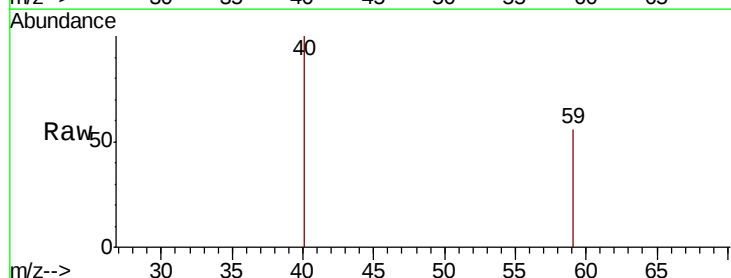
Acq: 28 Nov 2018 13:01

Tgt Ion: 59 Resp: 48

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.21

80

60

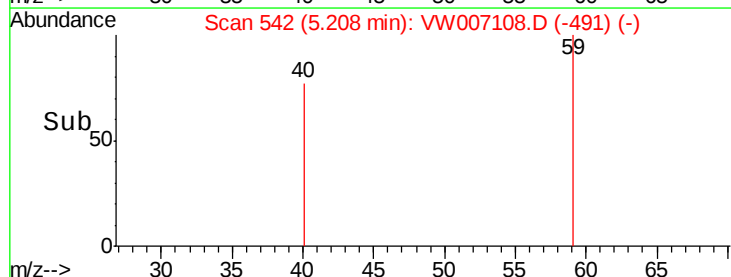
40

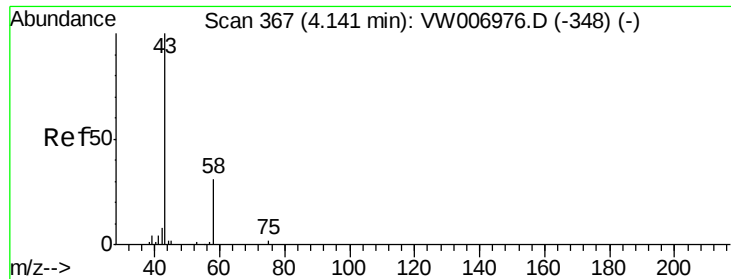
20

0

Time-->

5.19 5.20 5.21 5.22





#16

Acetone

Concen: 245.137 ug/l

RT: 4.13 min Scan# 365

Delta R.T. -0.01 min

Lab File: VW007108.D

Acq: 28 Nov 2018 13:01

Instrument :

MSVOA_W

ClientSampled :

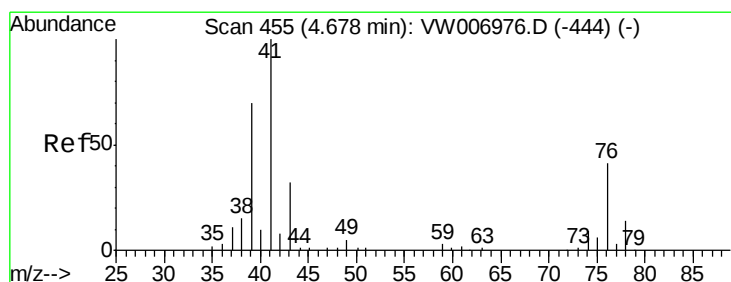
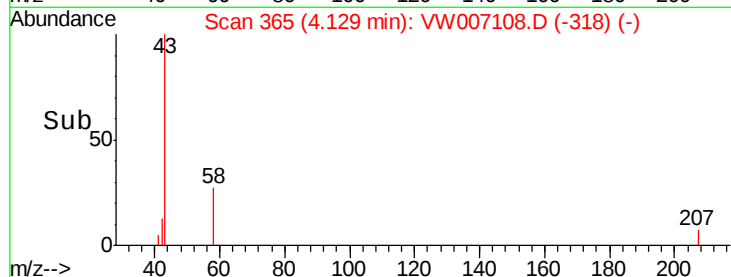
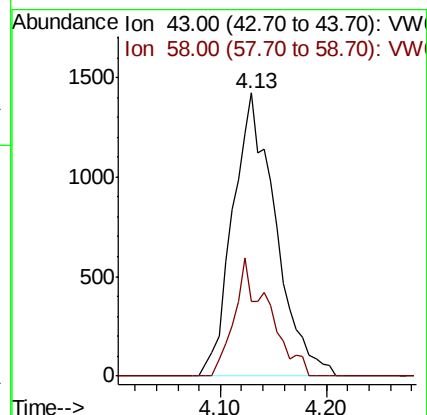
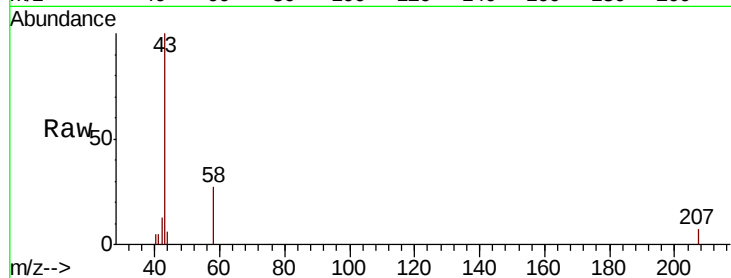
RCA-04

Tot Ion: 43 Resp: 3997

Ion Ratio Lower Upper

43 100

58 26.6 24.8 37.2



#18

Methyl Acetate

Concen: 11.074 ug/l

RT: 4.68 min Scan# 456

Delta R.T. 0.01 min

Lab File: VW007108.D

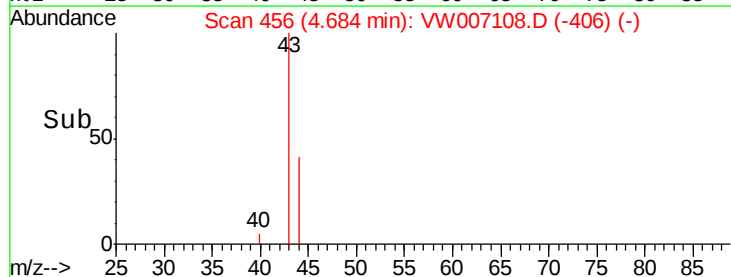
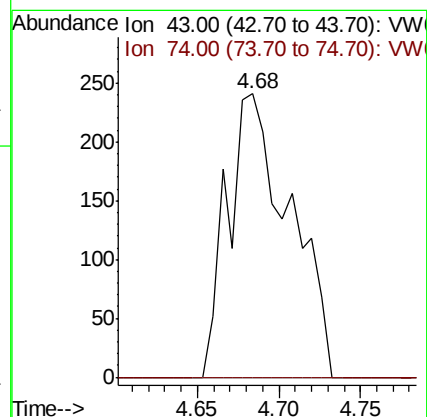
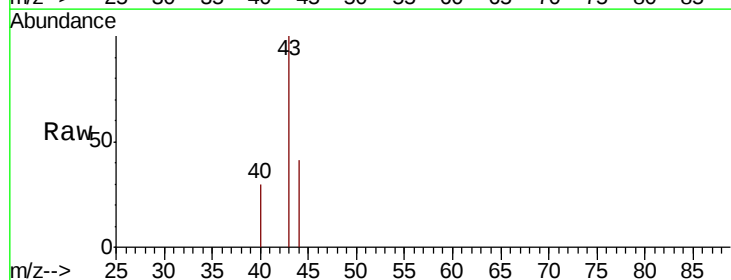
Acq: 28 Nov 2018 13:01

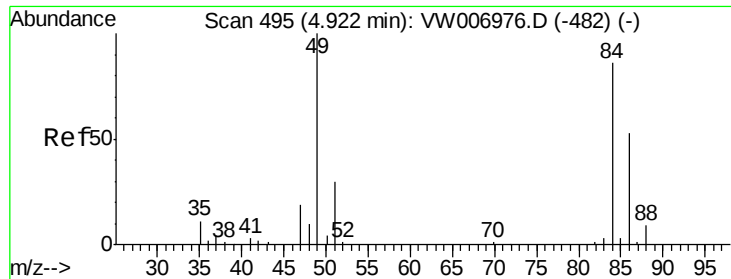
Tgt Ion: 43 Resp: 643

Ion Ratio Lower Upper

43 100

74 0.0 20.1 30.1#





#20

Methvlene Chloride

Concen: Below Cal

RT: 4.92 min Scan# 495

Delta R.T. 0.00 min

Lab File: VW007108.D

Acq: 28 Nov 2018 13:01

Instrument :

MSVOA_W

ClientSampled :

RCA-04

Tot Ion: 84 Resp: 73

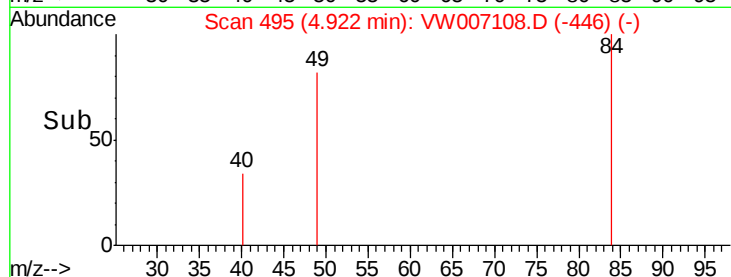
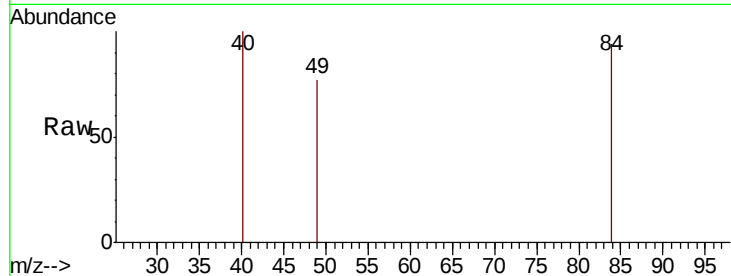
Ion Ratio Lower Upper

84 100

49 0.0 93.4 140.0#

51 0.0 28.4 42.6#

86 0.0 49.8 74.8#

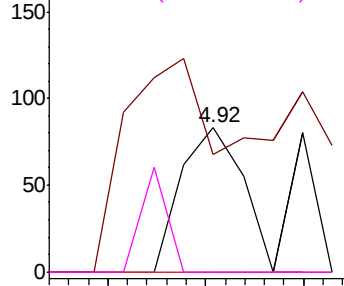


Abundance Ion 83.90 (83.60 to 84.60): VW

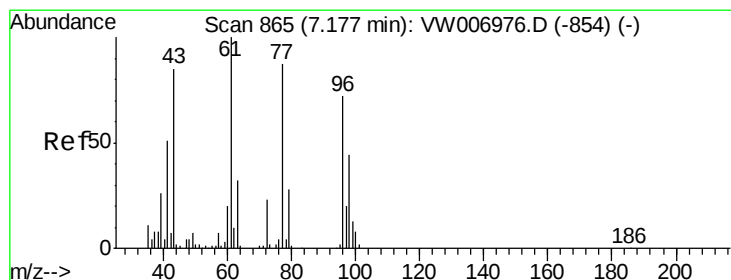
Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



Time-->



#25

2-Butanone

Concen: 9.991 ug/l

RT: 7.19 min Scan# 867

Delta R.T. 0.01 min

Lab File: VW007108.D

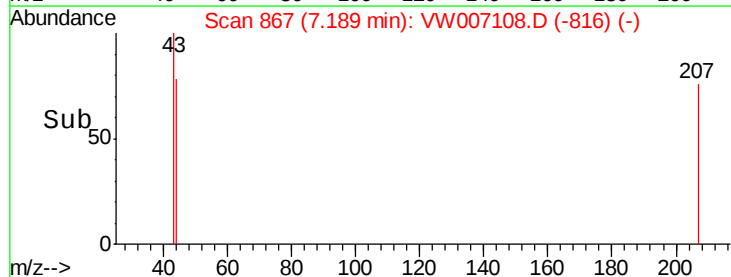
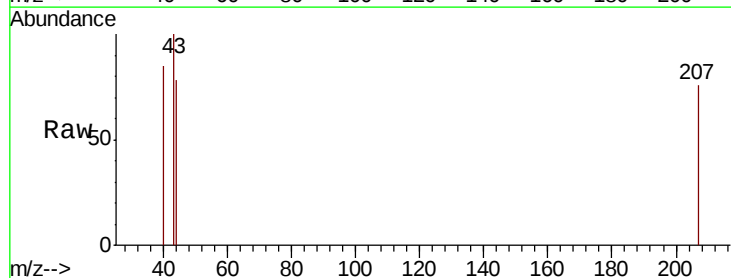
Acq: 28 Nov 2018 13:01

Tgt Ion: 43 Resp: 279

Ion Ratio Lower Upper

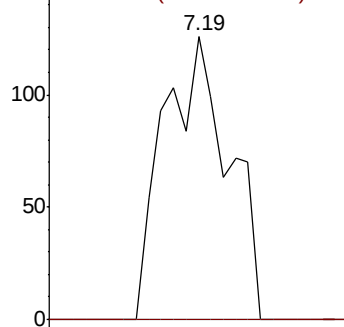
43 100

72 0.0 21.3 31.9#

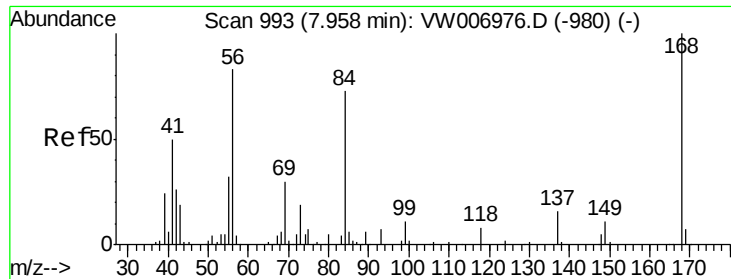


Abundance Ion 43.00 (42.70 to 43.30): VW

Ion 72.00 (71.70 to 72.30): VW



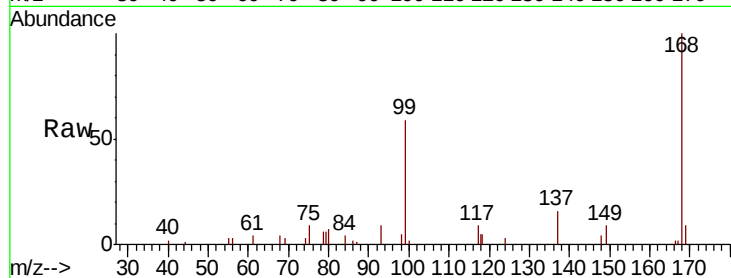
Time-->



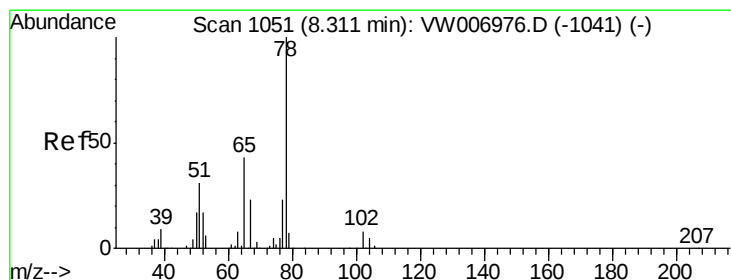
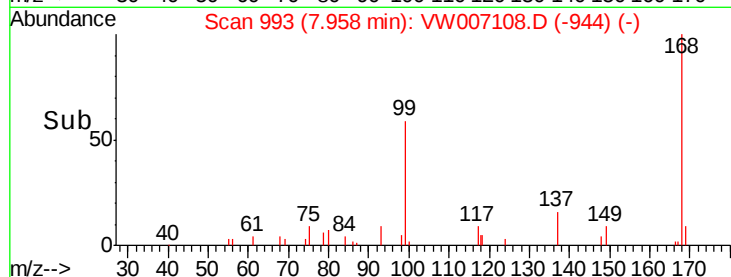
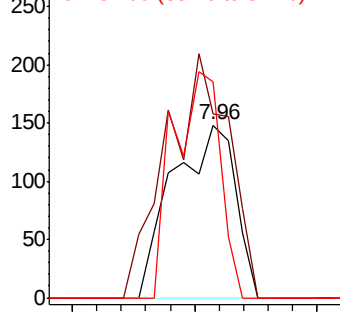
#31
Cyclohexane
Concen: 1.225 ug/l
RT: 7.96 min Scan# 993
Delta R.T. -0.00 min
Lab File: VW007108.D
Acq: 28 Nov 2018 13:01

Instrument :
MSVOA_W
ClientSampled :
RCA-04

Tot Ion: 56 Resp: 265
Ion Ratio Lower Upper
56 100
69 106.8 29.1 43.7#
84 125.0 70.6 105.8#

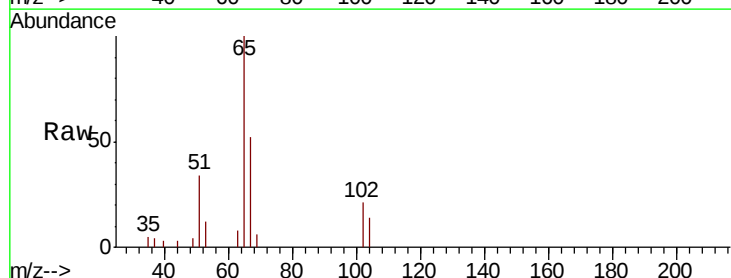


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

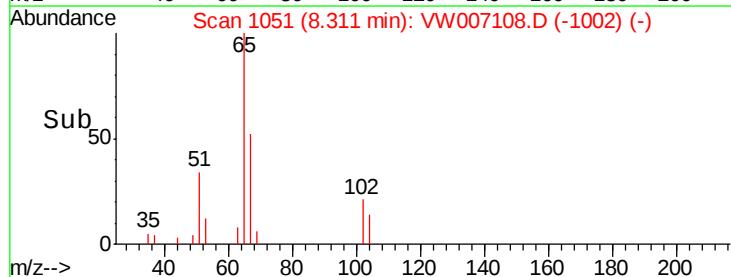
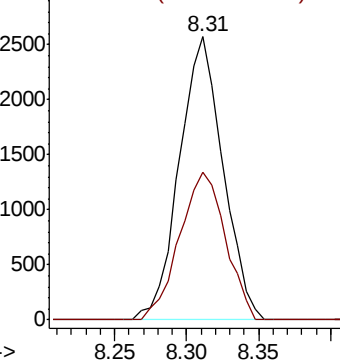


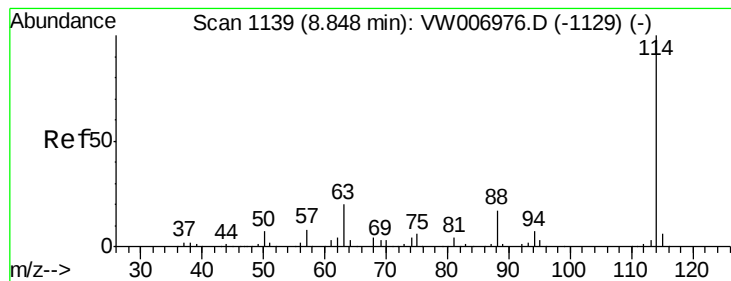
#33
1,2-Dichloroethane-d4
Concen: 48.004 ug/l
RT: 8.31 min Scan# 1051
Delta R.T. -0.00 min
Lab File: VW007108.D
Acq: 28 Nov 2018 13:01

Tgt Ion: 65 Resp: 5391
Ion Ratio Lower Upper
65 100
67 54.9 0.0 106.2



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: 8.85 min Scan# 1139

Delta R.T. -0.00 min

Lab File: VW007108.D

Acq: 28 Nov 2018 13:01

Instrument :

MSVOA_W

ClientSampleId :

RCA-04

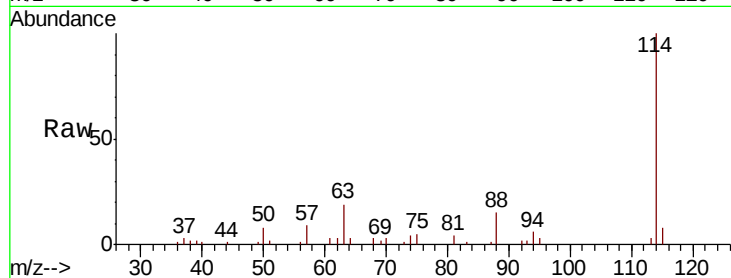
Tot Ion:114 Resp: 18551

Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.4

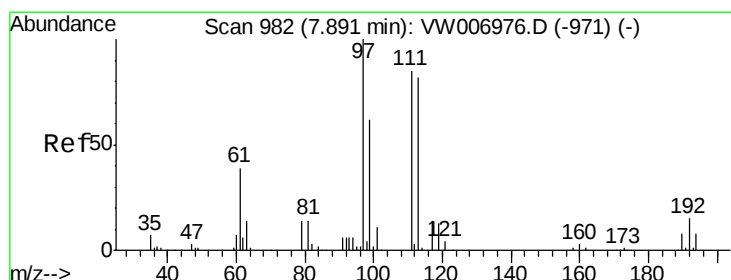
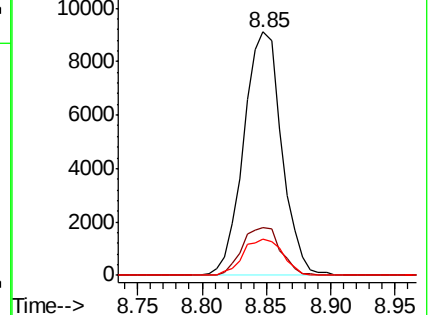
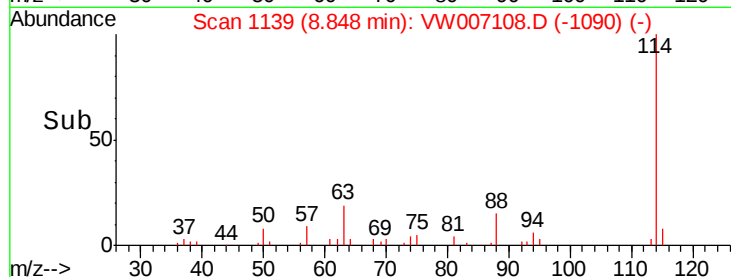
88 15.1 0.0 34.2



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: 46.438 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.01 min

Lab File: VW007108.D

Acq: 28 Nov 2018 13:01

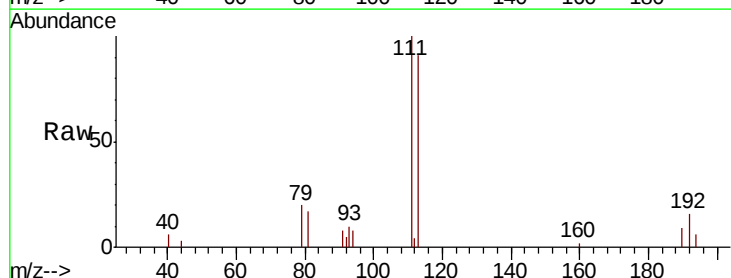
Tgt Ion:113 Resp: 4865

Ion Ratio Lower Upper

113 100

111 106.1 81.0 121.6

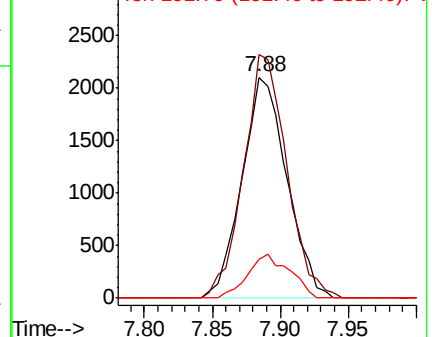
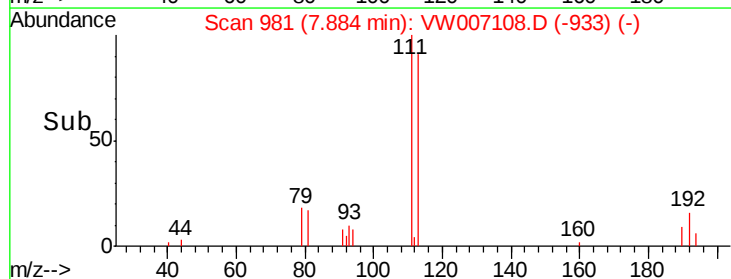
192 18.5 15.0 22.6

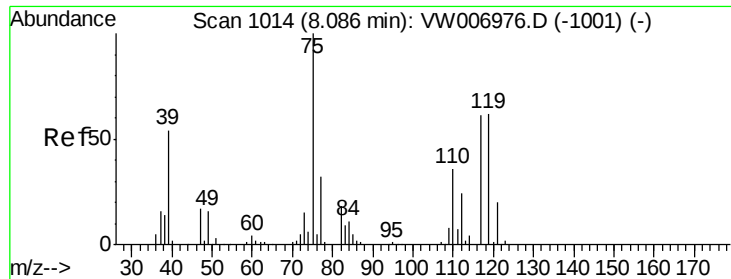


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

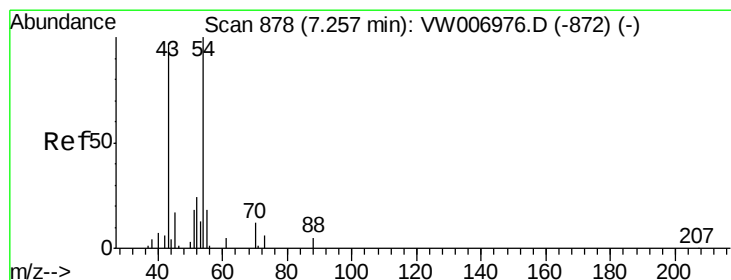
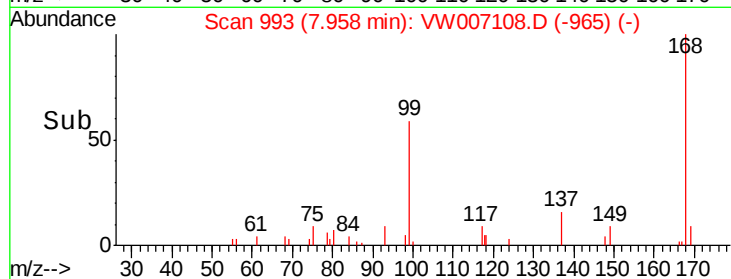
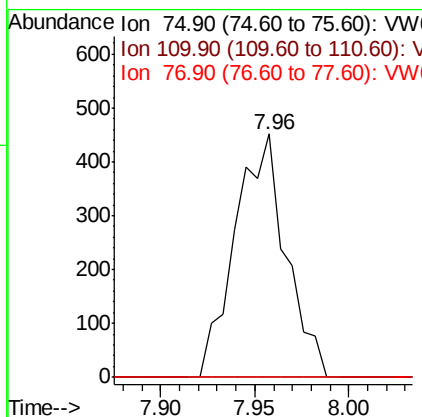
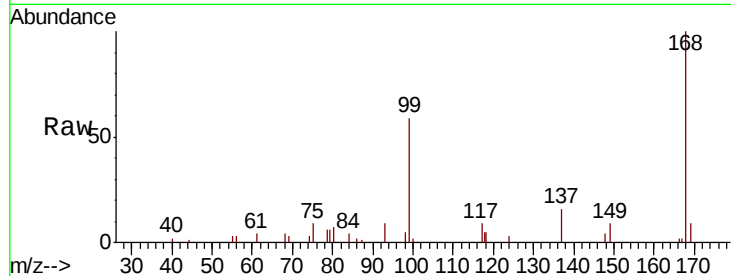




#36
 1,1-Dichloropropene
 Concen: 4.656 ug/l
 RT: 7.96 min Scan# 993
 Delta R.T. -0.13 min
 Lab File: VW007108.D
 Acq: 28 Nov 2018 13:01

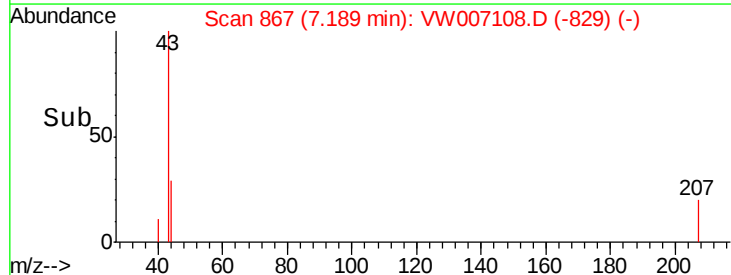
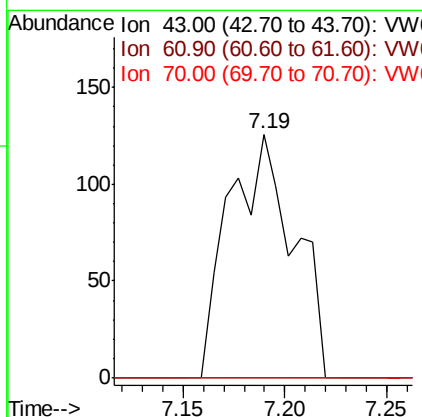
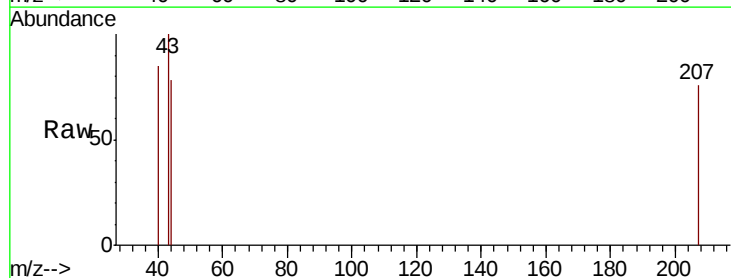
Instrument :
 MSVOA_W
 ClientSampled :
 RCA-04

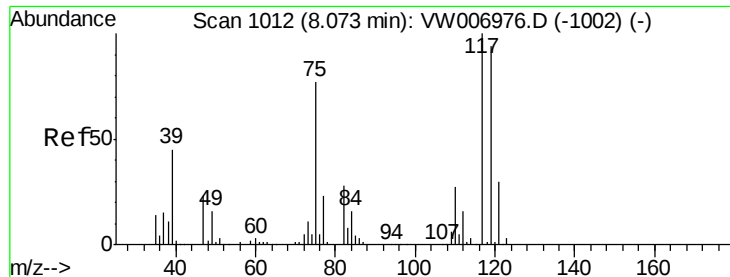
Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	18.0	54.0#
77	0.0	24.9	37.3#



#37
 Ethyl Acetate
 Concen: 4.247 ug/l
 RT: 7.19 min Scan# 867
 Delta R.T. -0.07 min
 Lab File: VW007108.D
 Acq: 28 Nov 2018 13:01

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.4	15.6#
70	0.0	8.8	13.2#





#38

Carbon Tetrachloride

Concen: 5.375 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW007108.D

Acq: 28 Nov 2018 13:01

Instrument :

MSVOA_W

ClientSampleId :

RCA-04

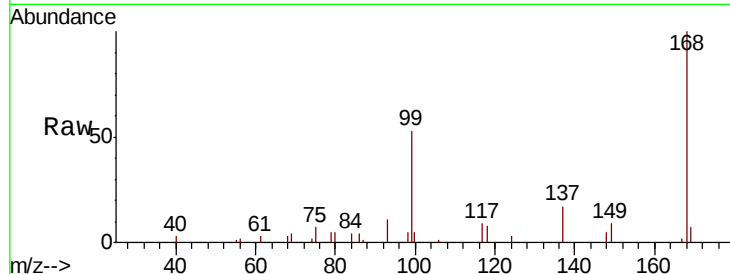
Tot Ion:117 Resp: 933

Ion Ratio Lower Upper

117 100

119 0.0 74.9 112.3#

121 0.0 23.6 35.4#



Abundance Ion 116.80 (116.50 to 117.50): V

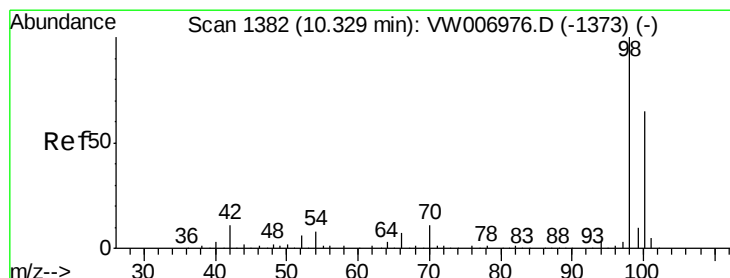
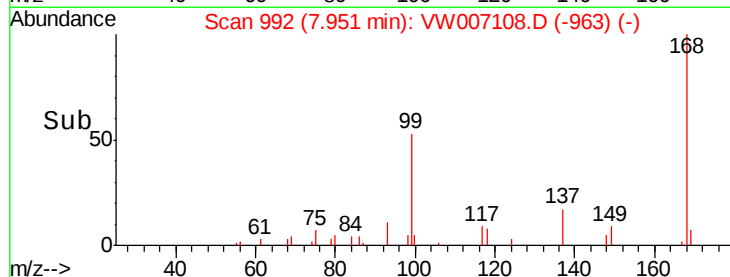
Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

7.95

Time-->

7.90 7.95 8.00



#50

Toluene-d8

Concen: 40.504 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.01 min

Lab File: VW007108.D

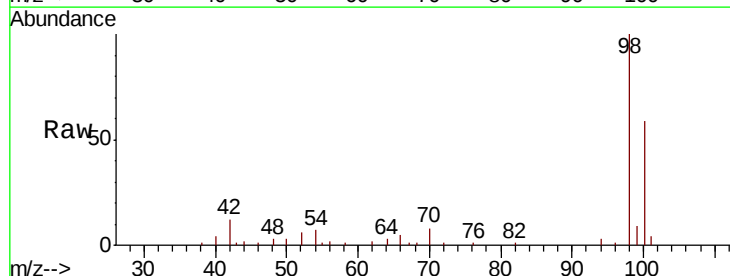
Acq: 28 Nov 2018 13:01

Tgt Ion: 98 Resp: 18738

Ion Ratio Lower Upper

98 100

100 62.7 52.2 78.2



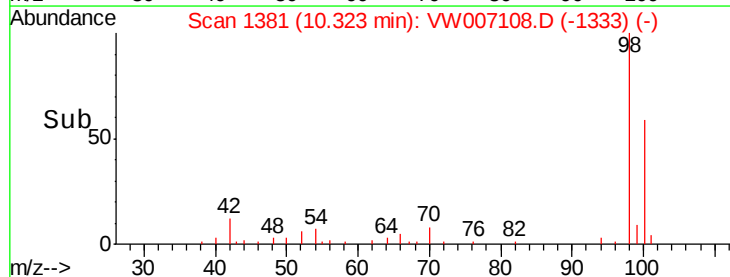
Abundance Ion 98.00 (97.70 to 98.70): VW

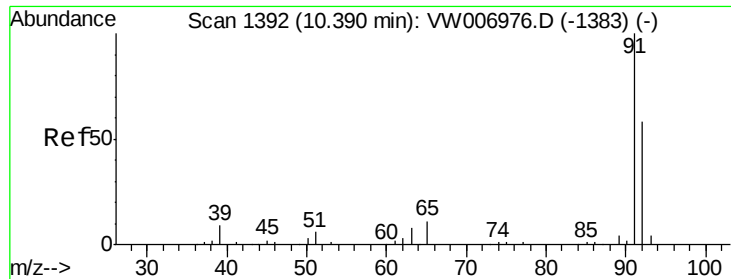
Ion 100.00 (99.70 to 100.70): VW

10.32

Time-->

10.25 10.30 10.35 10.40





#52

Toluene

Concen: 2.063 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW007108.D

Acq: 28 Nov 2018 13:01

Instrument :

MSVOA_W

ClientSampled :

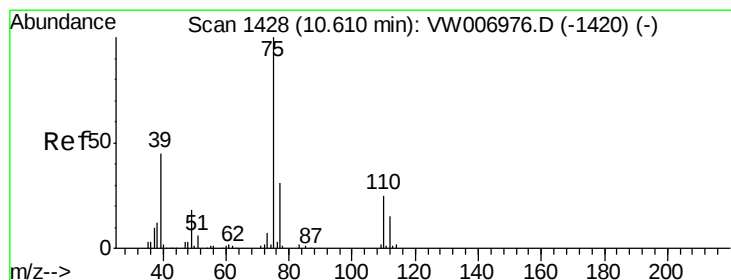
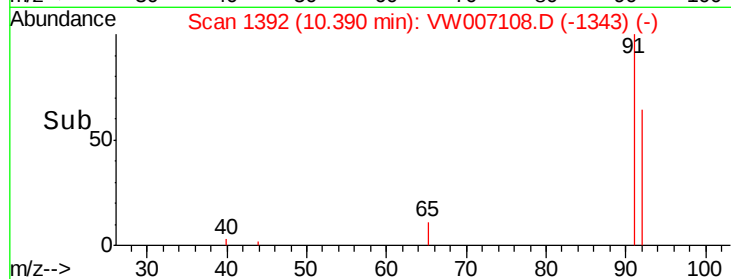
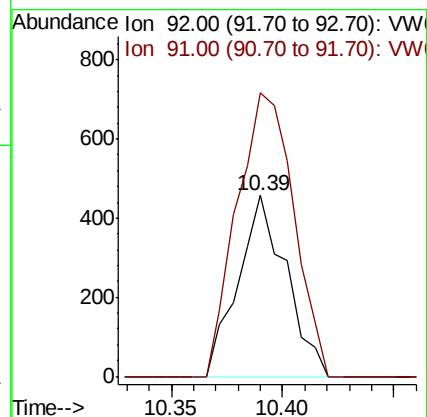
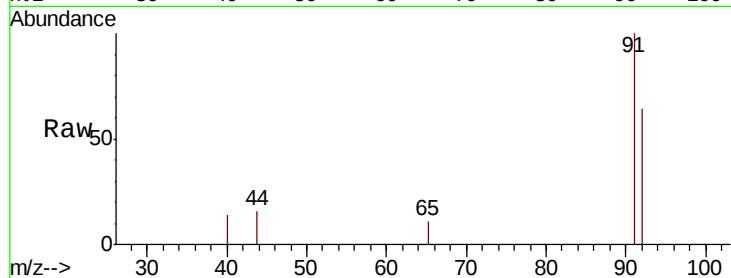
RCA-04

Tot Ion: 92 Resp: 687

Ion Ratio Lower Upper

92 100

91 185.2 137.3 205.9



#53

t-1,3-Dichloropropene

Concen: 1.667 ug/l

RT: 10.72 min Scan# 1446

Delta R.T. 0.11 min

Lab File: VW007108.D

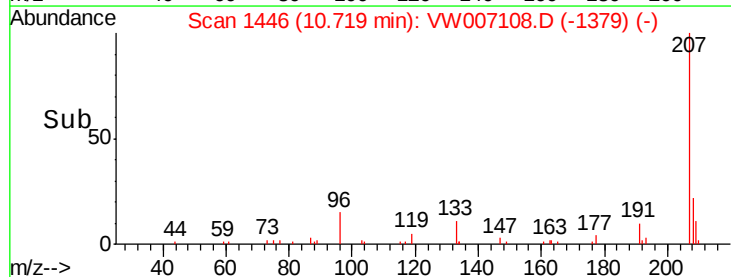
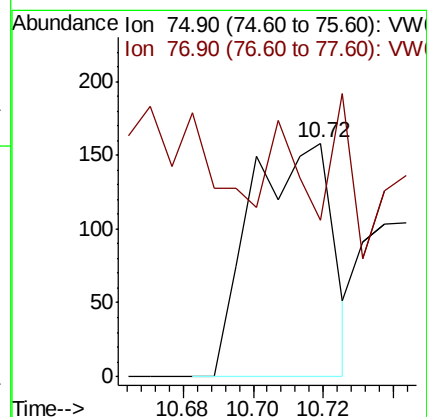
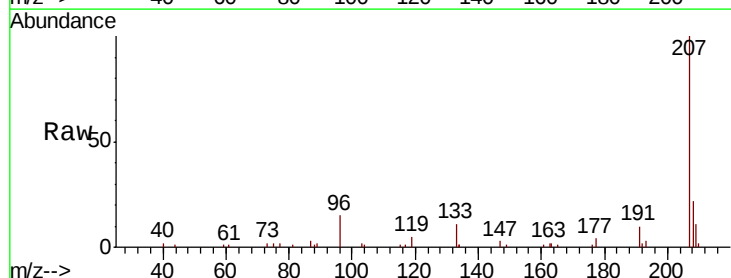
Acq: 28 Nov 2018 13:01

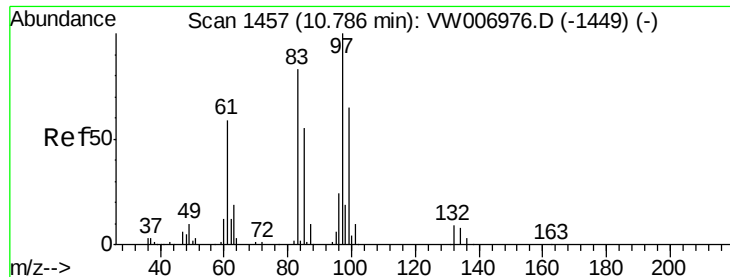
Tgt Ion: 75 Resp: 257

Ion Ratio Lower Upper

75 100

77 0.0 24.7 37.1#





#55

1,1,2-Trichloroethane

Concen: 1.091 ug/l

RT: 10.77 min Scan# 1454

Delta R.T. -0.02 min

Lab File: VW007108.D

Acq: 28 Nov 2018 13:01

Instrument :

MSVOA_W

ClientSampleId :

RCA-04

Tot Ion: 97 Resp: 97

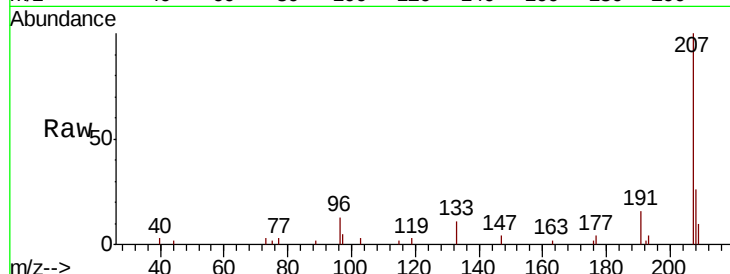
Ion Ratio Lower Upper

97 100

83 0.0 66.4 99.6#

85 0.0 44.1 66.1#

99 0.0 51.7 77.5#

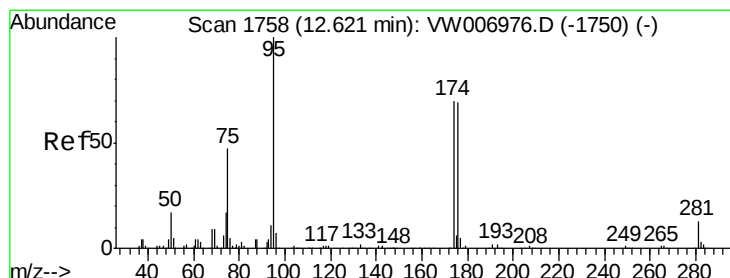
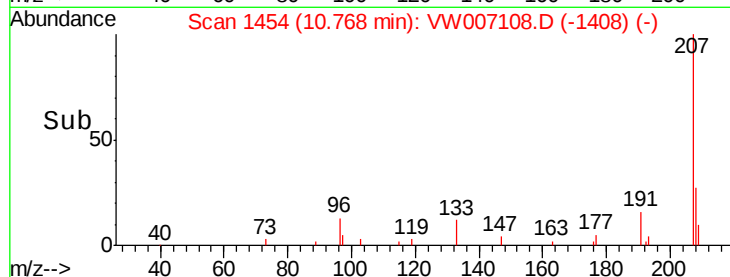
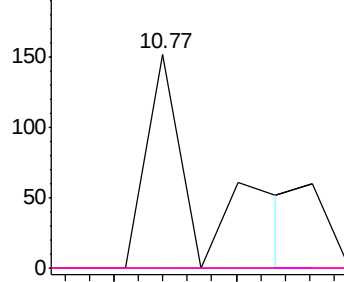


Abundance Ion 96.90 (96.60 to 97.60): VW

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



#62

4-Bromofluorobenzene

Concen: 33.453 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007108.D

Acq: 28 Nov 2018 13:01

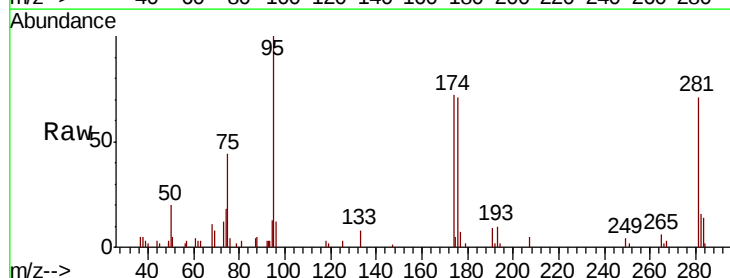
Tgt Ion: 95 Resp: 6090

Ion Ratio Lower Upper

95 100

174 77.8 0.0 143.6

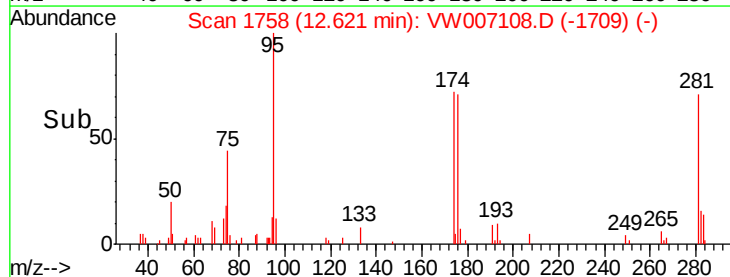
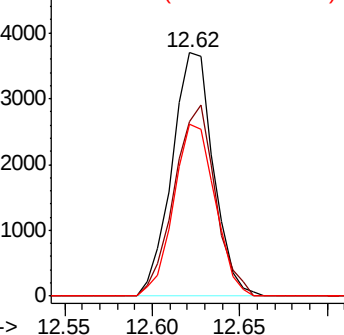
176 70.7 0.0 140.4

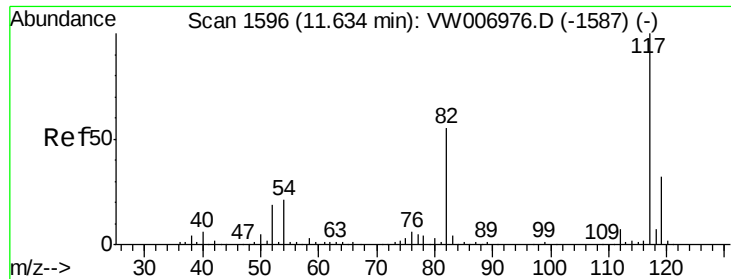


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

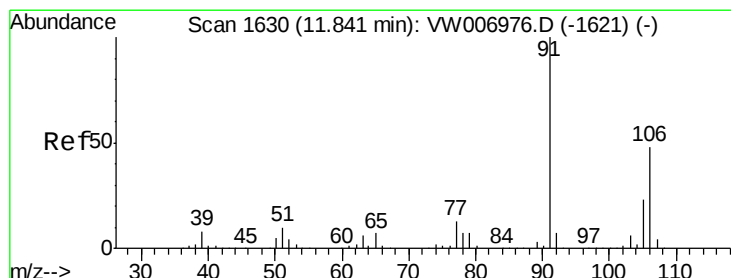
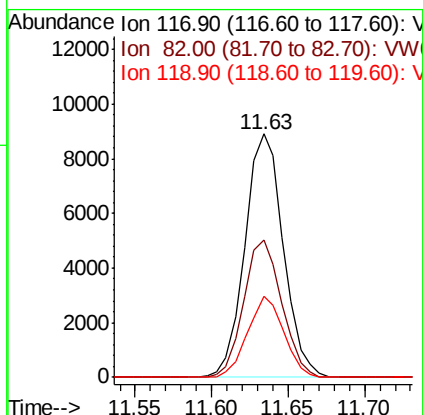
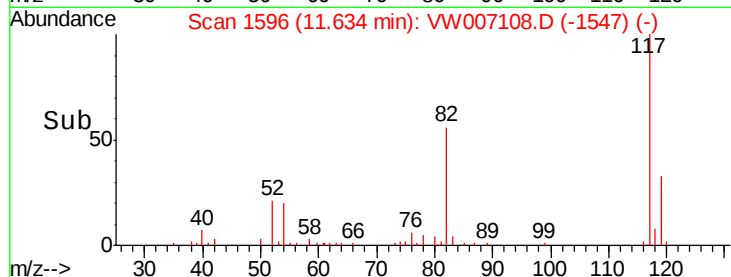
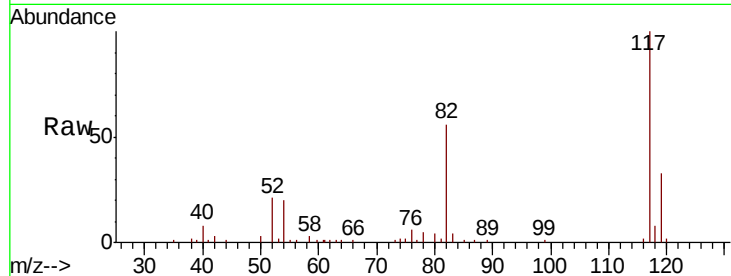




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW007108.D
Acq: 28 Nov 2018 13:01

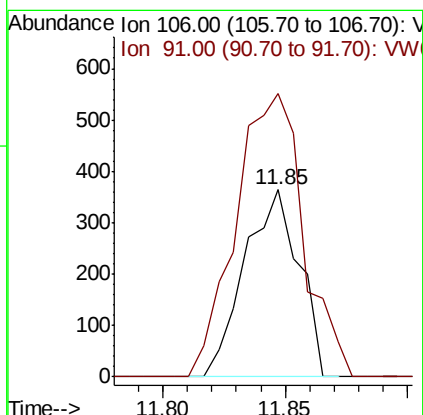
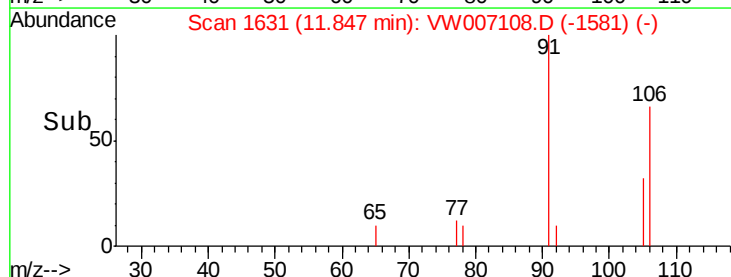
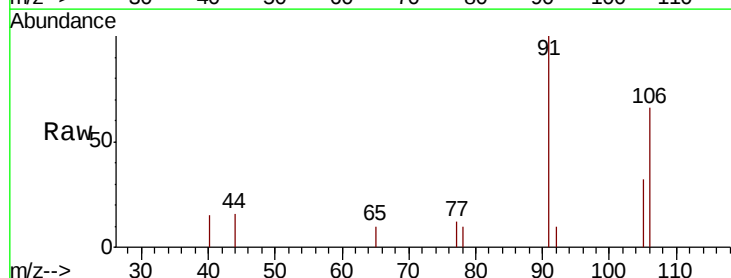
Instrument :
MSVOA_W
ClientSampled :
RCA-04

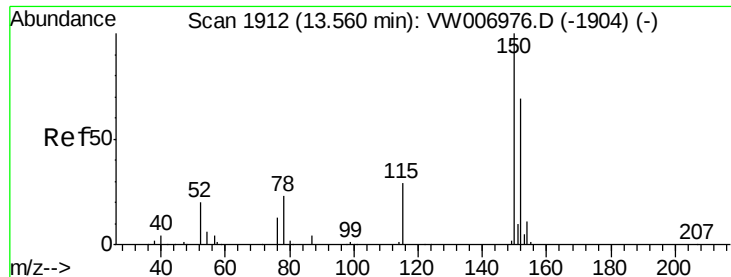
Tot Ion:117 Resp: 15521
Ion Ratio Lower Upper
117 100
82 56.3 44.2 66.2
119 33.3 25.9 38.9



#68
m/p-Xylenes
Concen: 2.420 ug/l
RT: 11.85 min Scan# 1631
Delta R.T. 0.01 min
Lab File: VW007108.D
Acq: 28 Nov 2018 13:01

Tgt Ion:106 Resp: 565
Ion Ratio Lower Upper
106 100
91 187.4 164.8 247.2



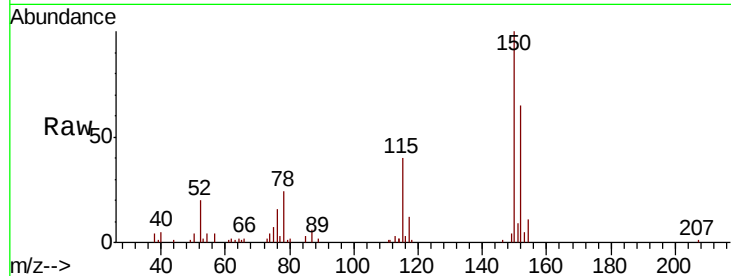


#72

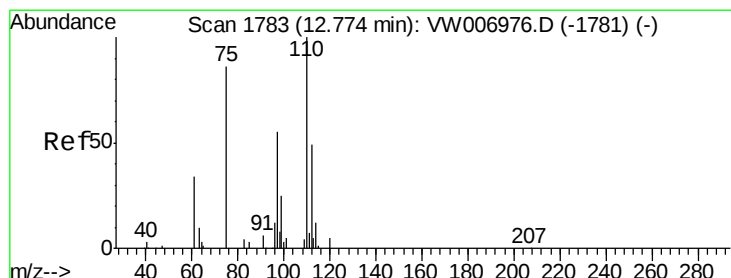
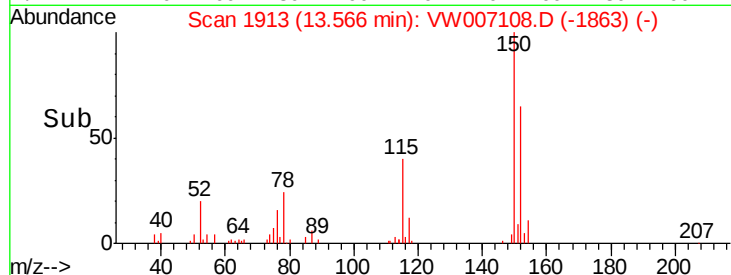
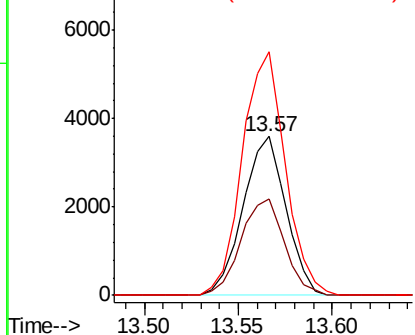
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1913
Delta R.T. 0.01 min
Lab File: VW007108.D
Acq: 28 Nov 2018 13:01

Instrument :
MSVOA_W
ClientSampleId :
RCA-04

Tot Ion:152 Resp: 5667
Ion Ratio Lower Upper
152 100
115 61.6 31.4 94.2
150 153.5 0.0 353.4



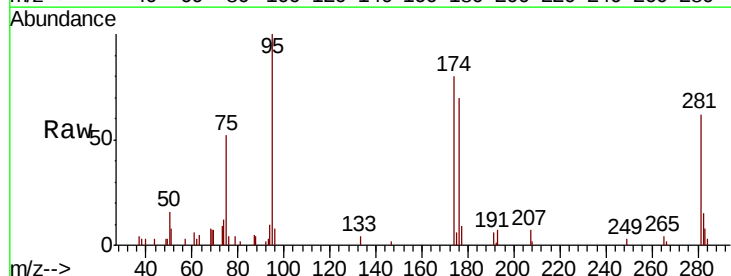
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



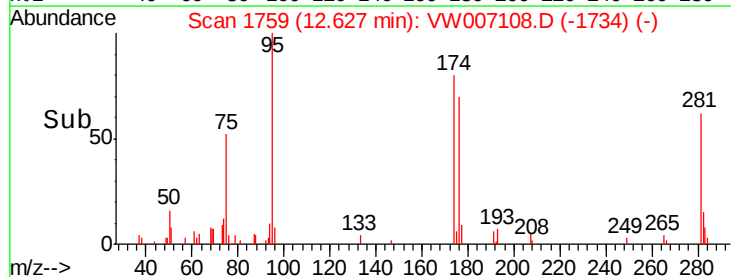
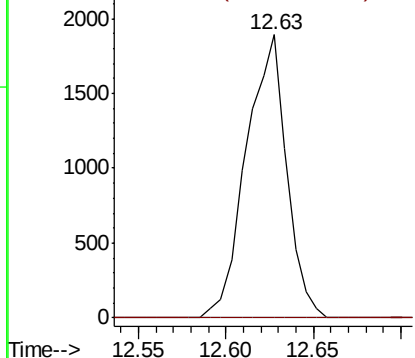
#76

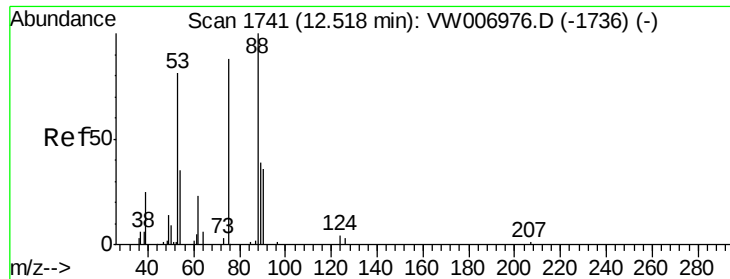
1,2,3-Trichloropropane
Concen: 68.245 ug/l
RT: 12.63 min Scan# 1759
Delta R.T. -0.15 min
Lab File: VW007108.D
Acq: 28 Nov 2018 13:01

Tgt Ion: 75 Resp: 3039
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 171.335 ug/l

RT: 12.63 min Scan# 1759

Delta R.T. 0.11 min

Lab File: VW007108.D

Acq: 28 Nov 2018 13:01

Instrument :

MSVOA_W

ClientSampleId :

RCA-04

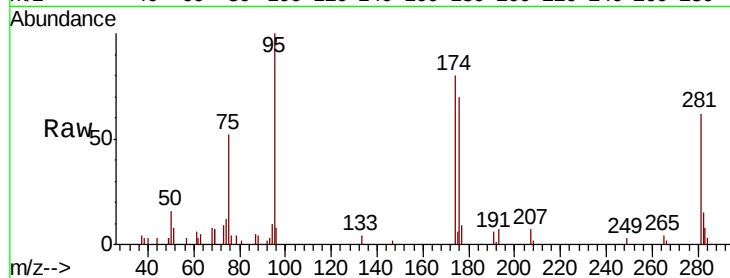
Tot Ion: 75 Resp: 3039

Ion Ratio Lower Upper

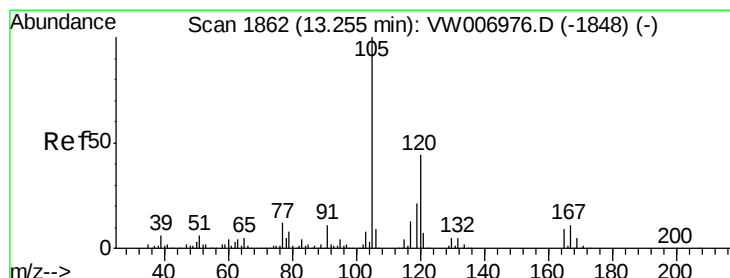
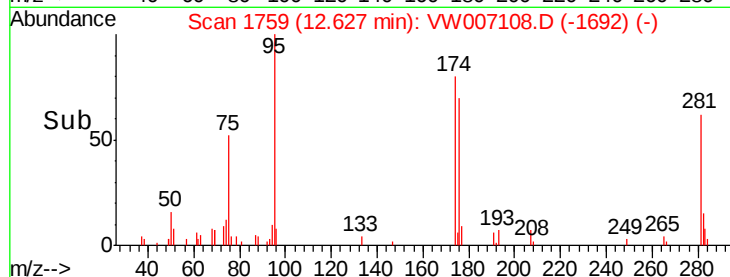
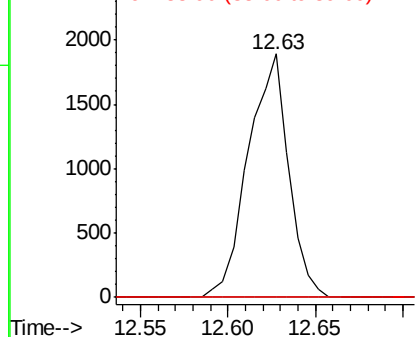
75 100

53 0.0 77.6 116.4#

89 0.0 39.3 58.9#



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: 2.092 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. -0.00 min

Lab File: VW007108.D

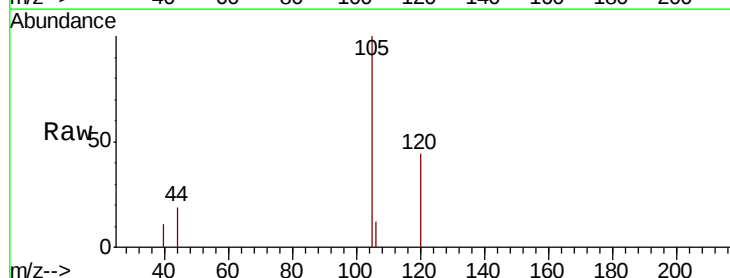
Acq: 28 Nov 2018 13:01

Tgt Ion: 105 Resp: 794

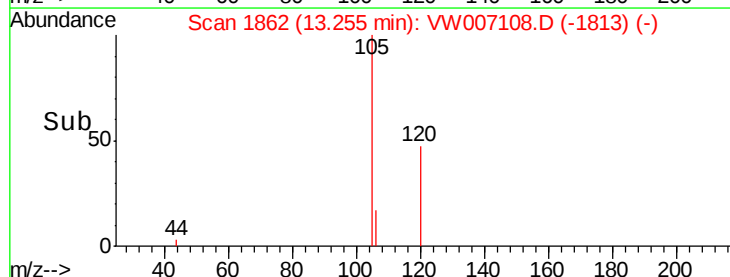
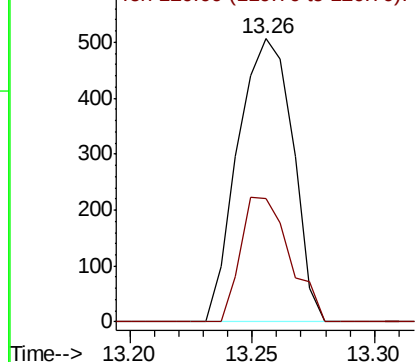
Ion Ratio Lower Upper

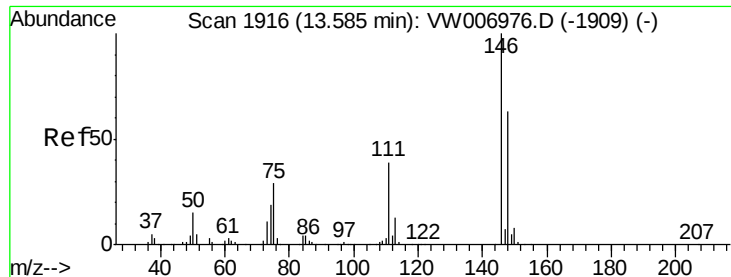
105 100

120 39.2 21.8 65.3



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

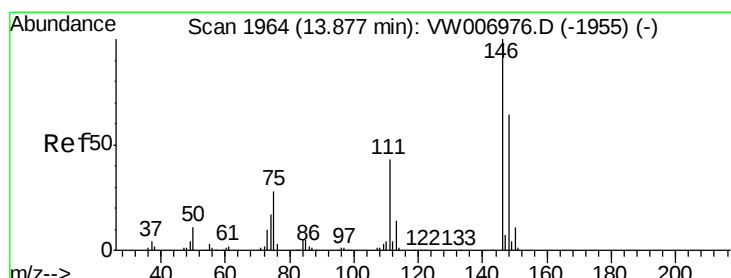
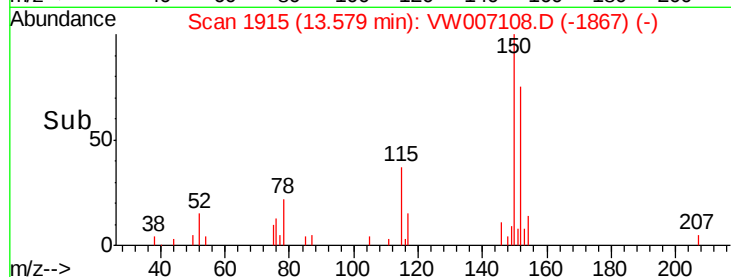
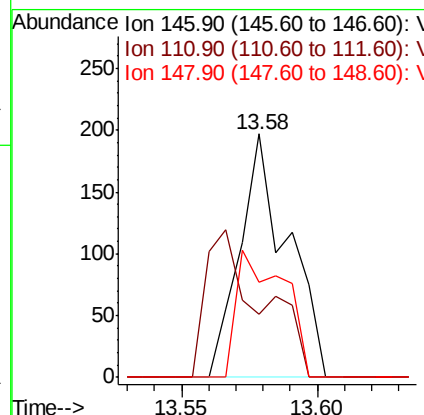
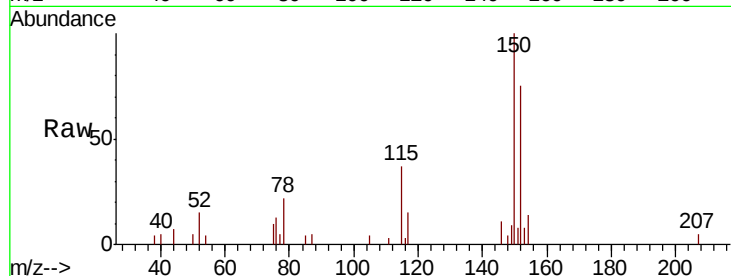




#88
 1,4-Dichlorobenzene
 Concen: 1.241 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.01 min
 Lab File: VW007108.D
 Acq: 28 Nov 2018 13:01

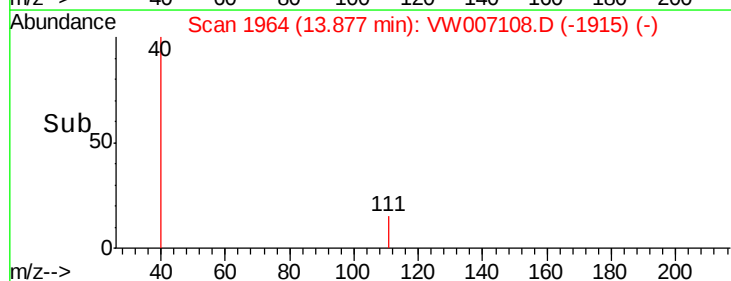
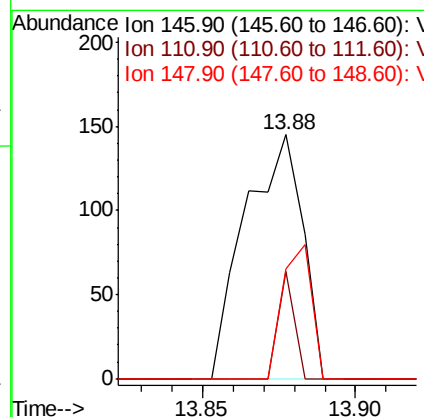
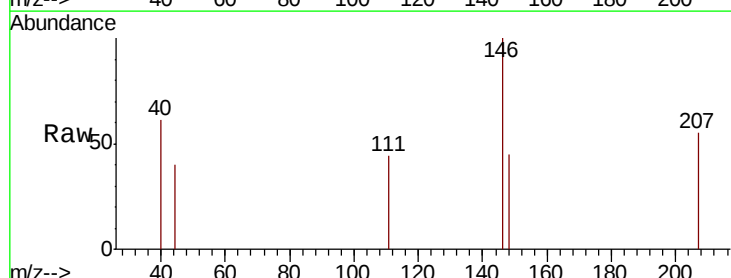
Instrument :
 MSVOA_W
 ClientSampled :
 RCA-04

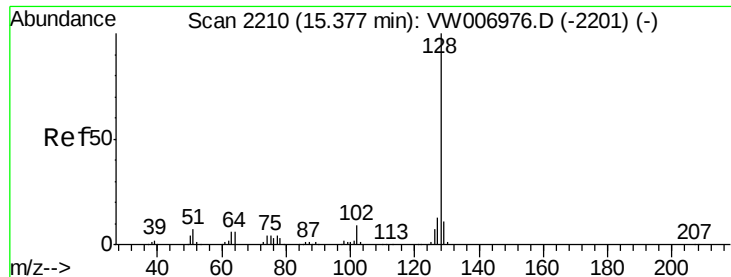
Tot Ion:146 Resp: 239
 Ion Ratio Lower Upper
 146 100
 111 70.3 20.6 61.8#
 148 51.9 32.3 96.8



#91
 1,2-Dichlorobenzene
 Concen: 1.117 ug/l
 RT: 13.88 min Scan# 1964
 Delta R.T. -0.00 min
 Lab File: VW007108.D
 Acq: 28 Nov 2018 13:01

Tgt Ion:146 Resp: 189
 Ion Ratio Lower Upper
 146 100
 111 12.2 21.9 65.7#
 148 28.0 32.2 96.6#

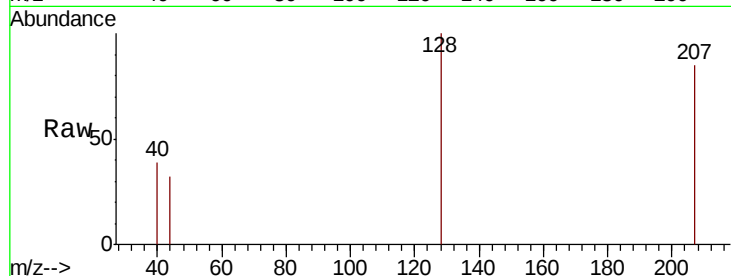




#95
Naphthalene
Concen: 2.923 ug/l
RT: 15.38 min Scan# 2211
Delta R.T. 0.01 min
Lab File: VW007108.D
Acq: 28 Nov 2018 13:01

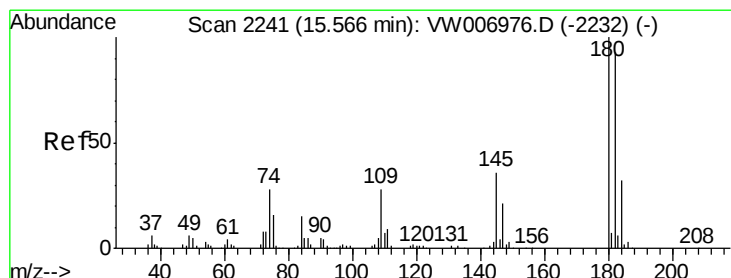
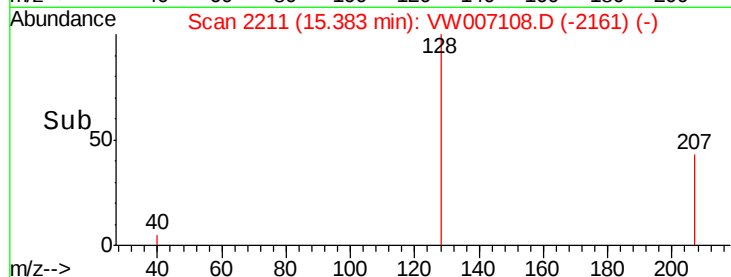
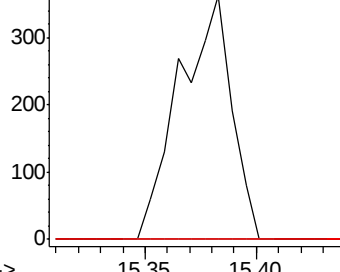
Instrument :
MSVOA_W
ClientSampled :
RCA-04

Tot Ion:128 Resp: 592
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.7 13.1#



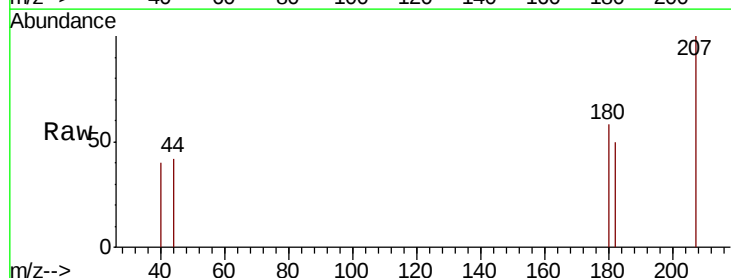
Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

15.38



#96
1,2,3-Trichlorobenzene
Concen: 1.339 ug/l
RT: 15.57 min Scan# 2241
Delta R.T. -0.00 min
Lab File: VW007108.D
Acq: 28 Nov 2018 13:01

Tgt Ion:180 Resp: 124
Ion Ratio Lower Upper
180 100
182 124.2 47.0 141.2
145 0.0 18.0 54.0#



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

15.57

