

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW080619\
 Data File : VW011730.D
 Acq On : 06 Aug 2019 00:15
 Operator : SY/VA
 Sample : K4164-04
 Misc : 5.16G/5ML/MSVOA_W/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 RBR-2000051

Quant Time: Aug 06 08:08:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 00:23:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	11584	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	18826	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	14856	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	2890	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	8678	65.24	ug/l	0.00
Spiked Amount			Recovery	=	130.48%	
35) Dibromofluoromethane	7.89	113	6623	62.71	ug/l	0.00
Spiked Amount			Recovery	=	125.42%	
50) Toluene-d8	10.33	98	22787	52.70	ug/l	0.00
Spiked Amount			Recovery	=	105.40%	
62) 4-Bromofluorobenzene	12.62	95	5542	35.95	ug/l	0.00
Spiked Amount			Recovery	=	71.90%	

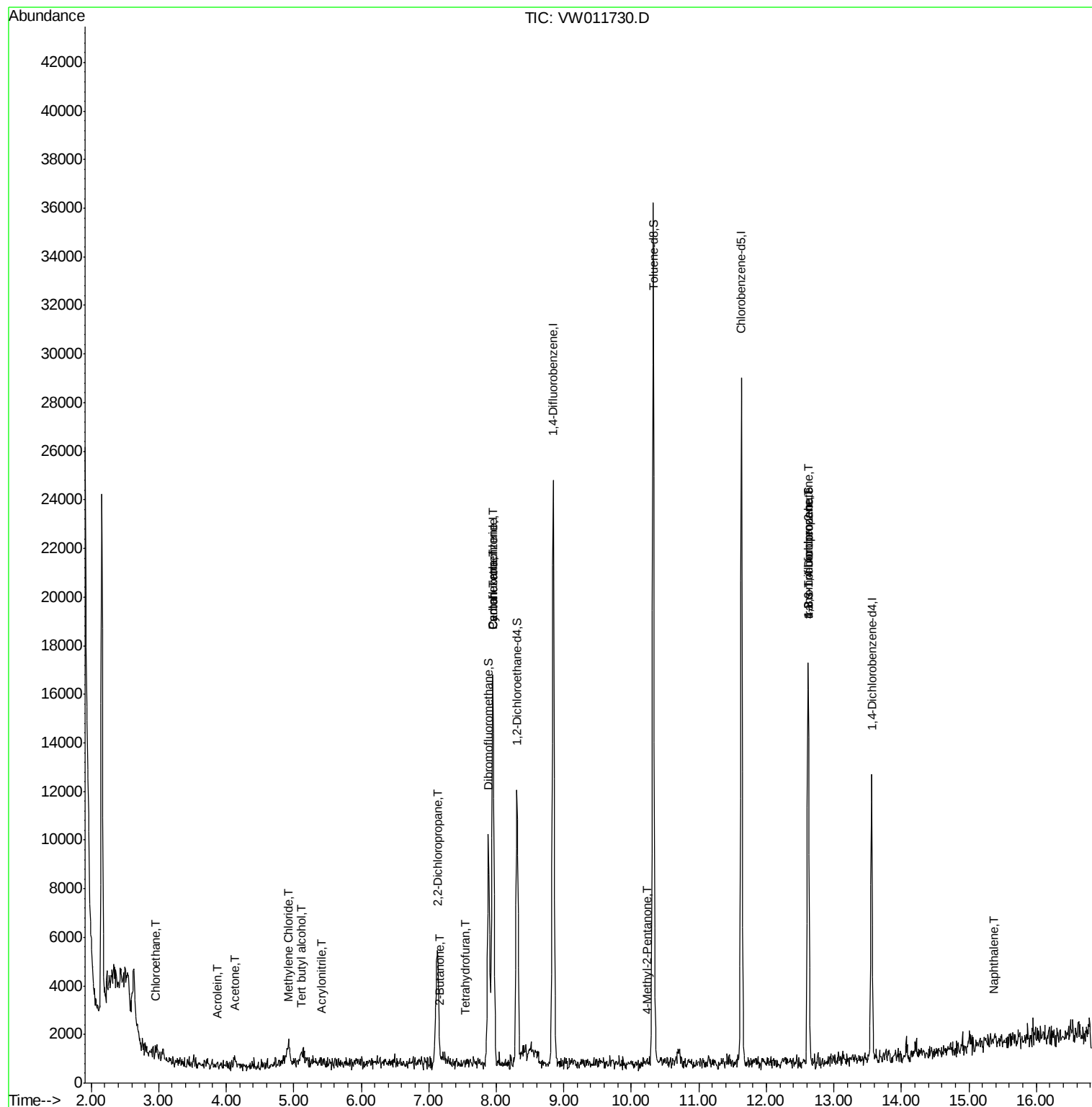
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	2.95	64	137	1.780	ug/l #	44
11) Tert butyl alcohol	5.12	59	524	38.278	ug/l #	72
13) Acrolein	3.86	56	21	2.200	ug/l #	15
15) Acrylonitrile	5.41	53	46	1.349	ug/l #	17
16) Acetone	4.12	43	467	11.037	ug/l #	82
20) Methylene Chloride	4.92	84	422	2.892	ug/l #	69
25) 2-Butanone	7.17	43	116	2.095	ug/l #	56
26) 2,2-Dichloropropane	7.13	77	433	2.717	ug/l #	54
29) Tetrahydrofuran	7.54	42	94	2.970	ug/l #	41
31) Cyclohexane	7.95	56	464	1.866	ug/l #	1
38) Carbon Tetrachloride	7.95	117	1285	7.668	ug/l #	13
51) 4-Methyl-2-Pentanone	10.23	43	158	1.467	ug/l #	40
76) 1,2,3-Trichloropropane	12.62	75	2771	90.616	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	2771	208.839	ug/l #	6
95) Naphthalene	15.36	128	38	2.385	ug/l #	69

(#) = 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: VW011730.D

Acq: 06 Aug 2019 00:15

Instrument :

MSVOA_W

ClientSampleId :

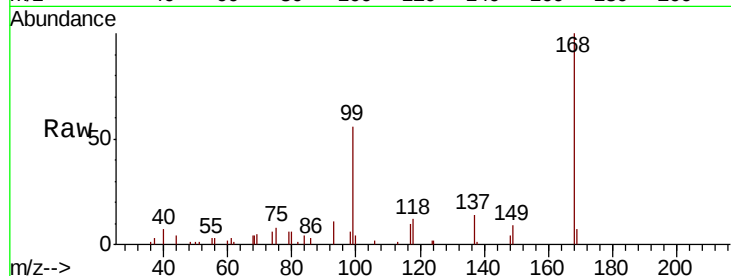
RBR-2000051

Tgt Ion:168 Resp: 11584

Ion Ratio Lower Upper

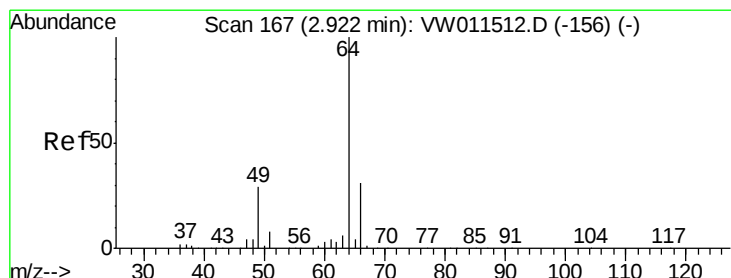
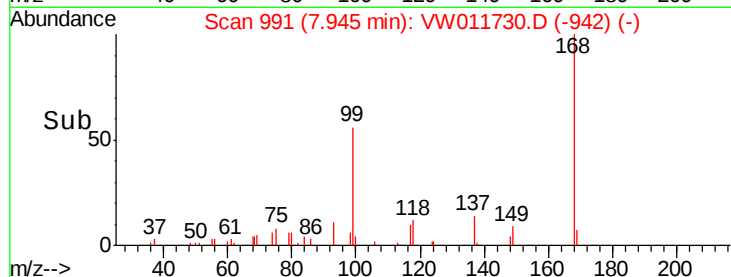
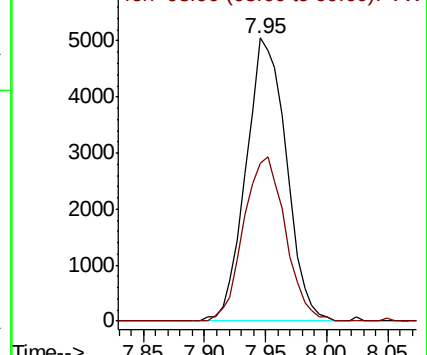
168 100

99 55.8 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#6

Chloroethane

Concen: 1.780 ug/l

RT: 2.95 min Scan# 171

Delta R.T. 0.02 min

Lab File: VW011730.D

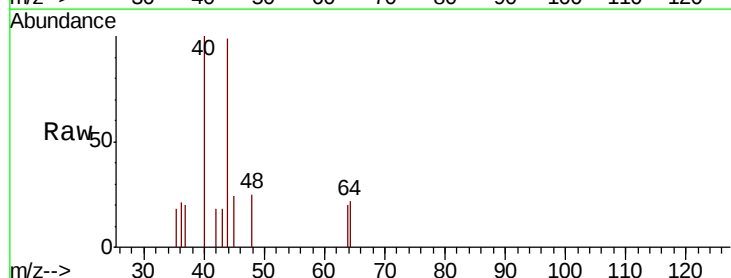
Acq: 06 Aug 2019 00:15

Tgt Ion: 64 Resp: 137

Ion Ratio Lower Upper

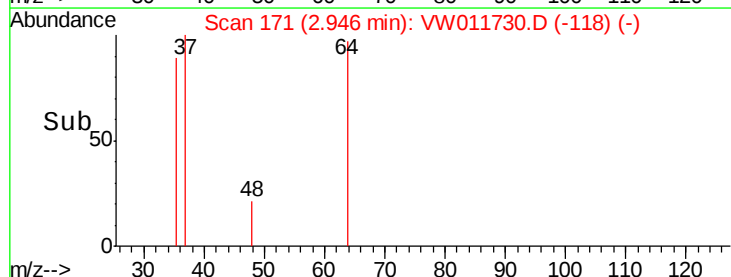
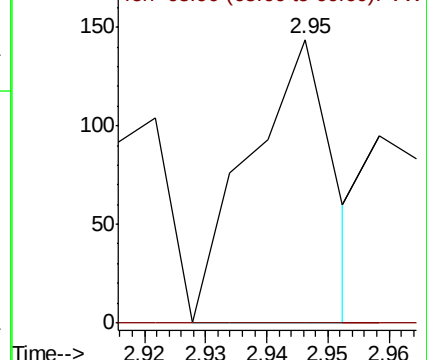
64 100

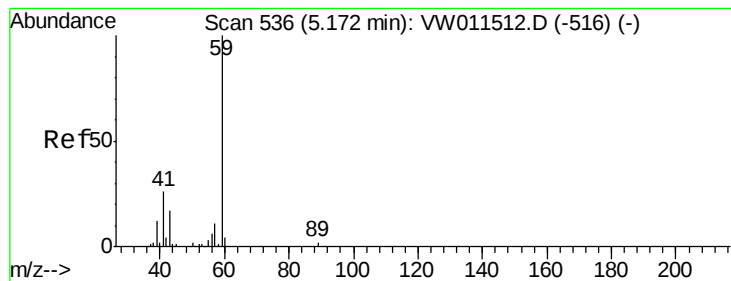
66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VW

Ion 65.90 (65.60 to 66.60): VW





#11

Tert butyl alcohol

Concen: 38.278 ug/l

RT: 5.12 min Scan# 528

Delta R.T. -0.05 min

Lab File: VW011730.D

Acq: 06 Aug 2019 00:15

Instrument :

MSVOA_W

ClientSampleId :

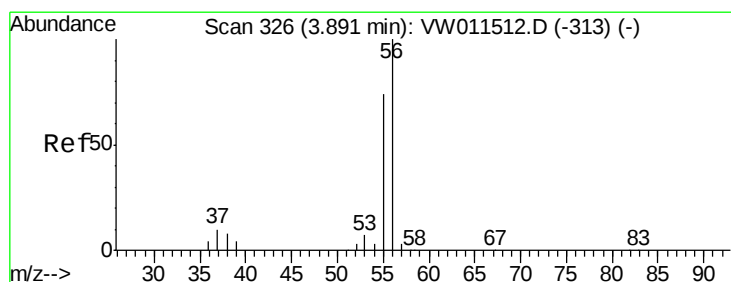
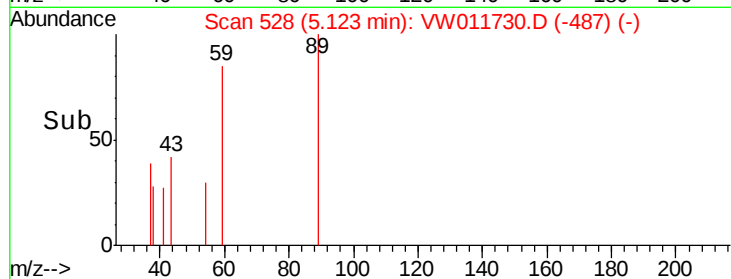
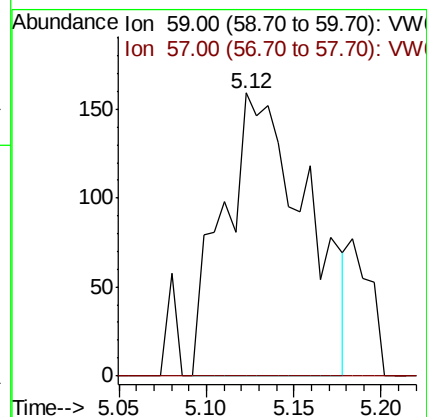
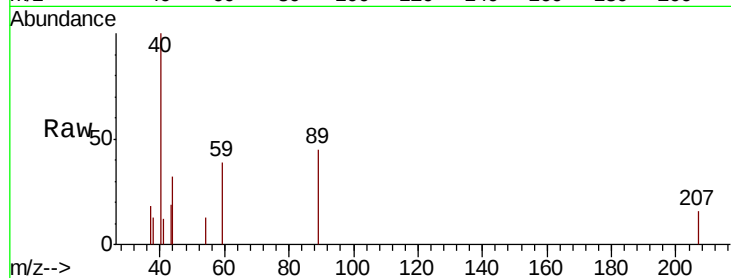
RBR-2000051

Tgt Ion: 59 Resp: 524

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



#13

Acrolein

Concen: 2.200 ug/l

RT: 3.86 min Scan# 321

Delta R.T. -0.03 min

Lab File: VW011730.D

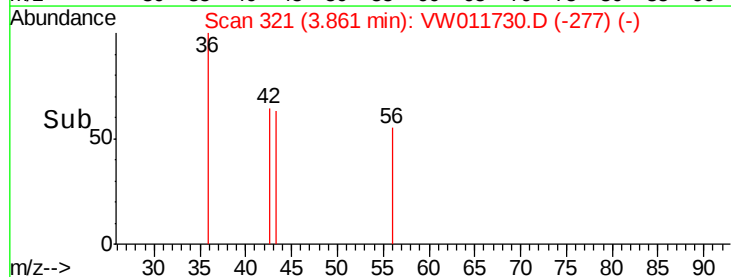
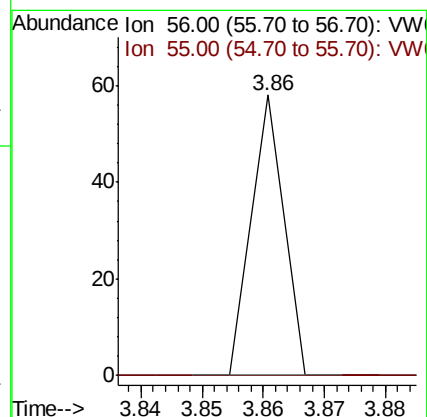
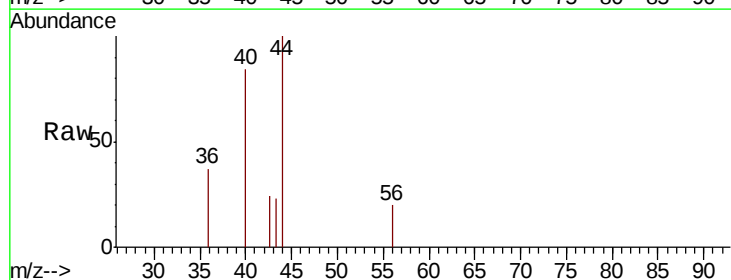
Acq: 06 Aug 2019 00:15

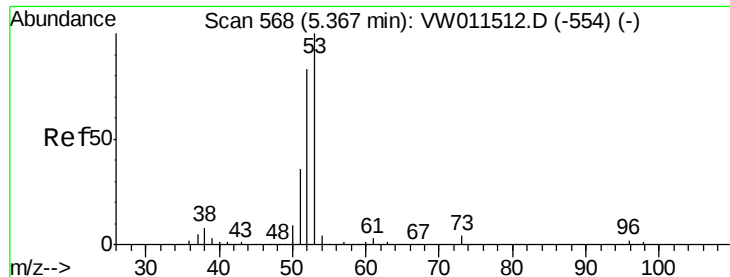
Tgt Ion: 56 Resp: 21

Ion Ratio Lower Upper

56 100

55 0.0 56.0 84.0#





#15

Acrylonitrile

Concen: 1.349 ug/l

RT: 5.41 min Scan# 575

Delta R.T. 0.04 min

Lab File: VW011730.D

Acq: 06 Aug 2019 00:15

Instrument :

MSVOA_W

ClientSampleId :

RBR-2000051

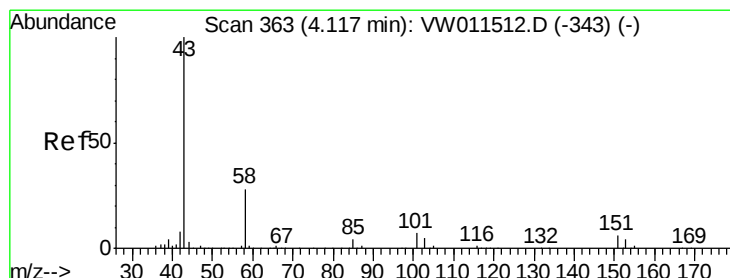
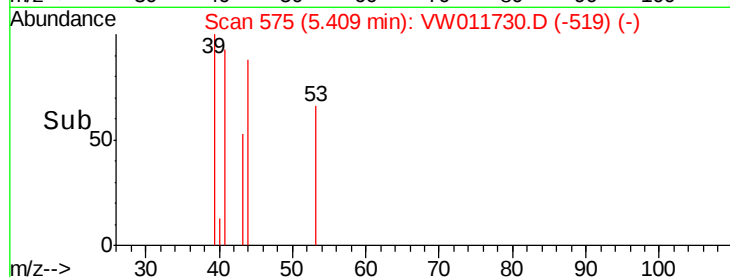
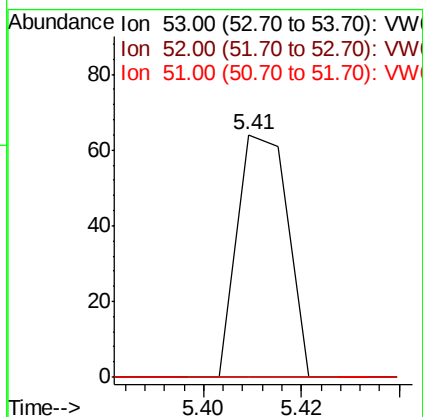
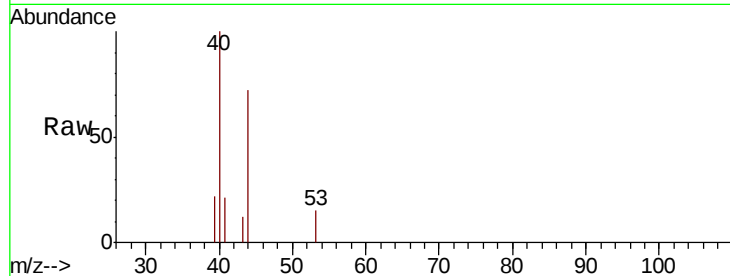
Tgt Ion: 53 Resp: 46

Ion Ratio Lower Upper

53 100

52 0.0 67.2 100.8#

51 0.0 30.0 45.0#



#16

Acetone

Concen: 11.037 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW011730.D

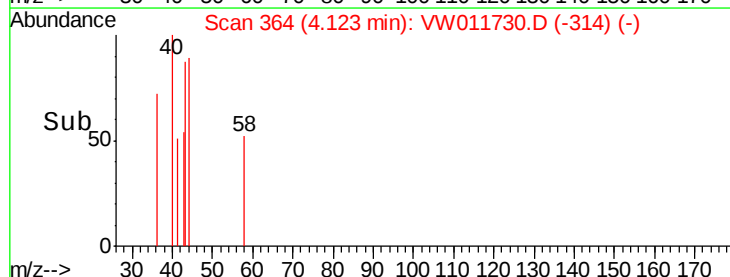
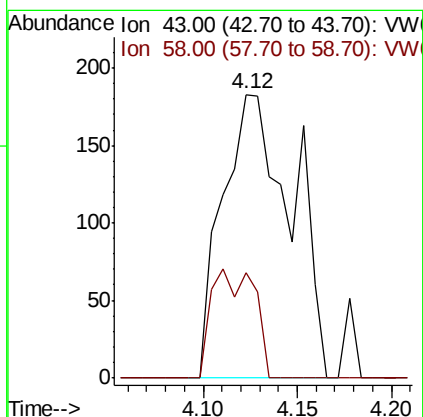
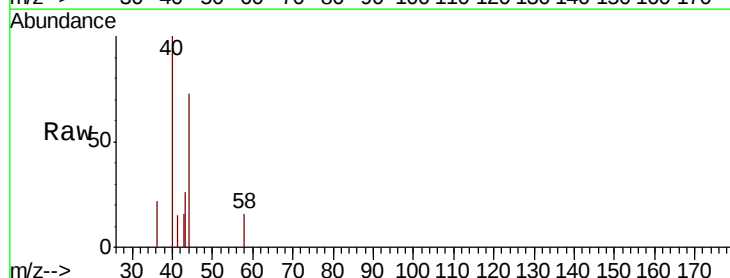
Acq: 06 Aug 2019 00:15

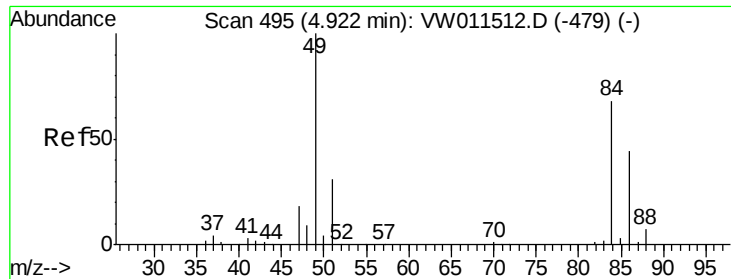
Tgt Ion: 43 Resp: 467

Ion Ratio Lower Upper

43 100

58 37.2 22.3 33.5#

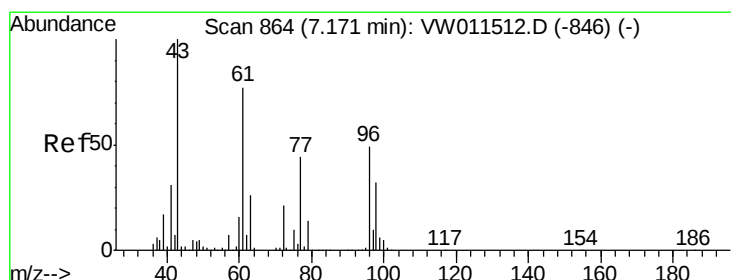
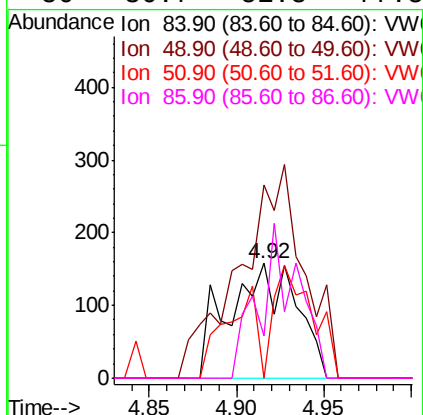
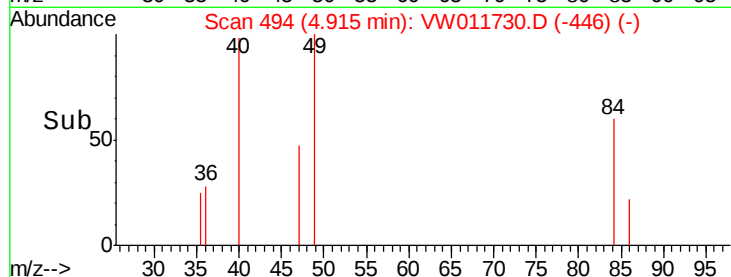
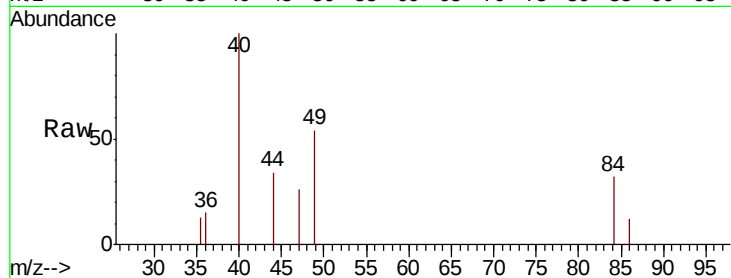




#20
Methylene Chloride
Concen: 2.892 ug/l
RT: 4.92 min Scan# 494
Delta R.T. -0.01 min
Lab File: VW011730.D
Acq: 06 Aug 2019 00:15

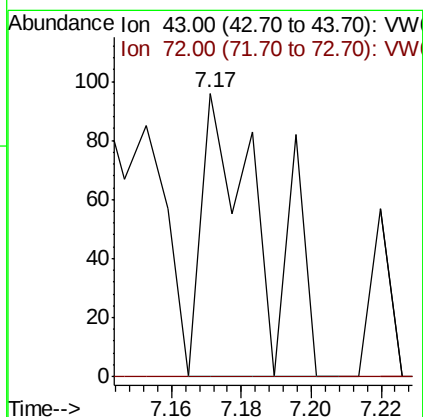
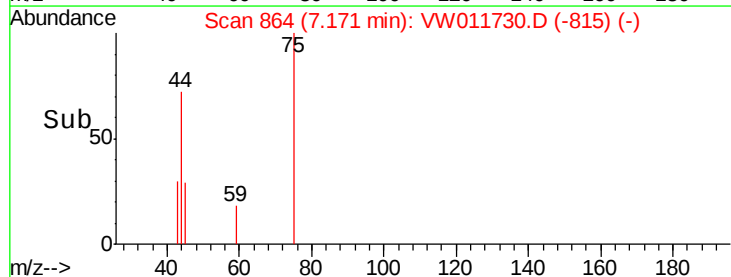
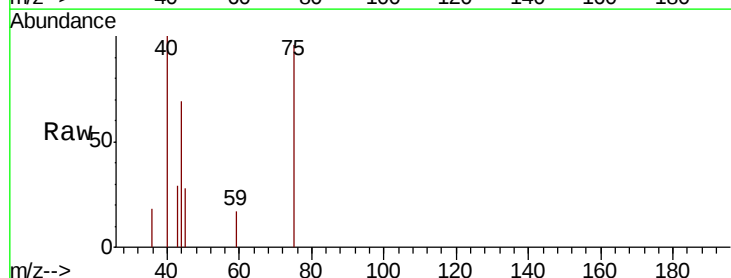
Instrument :
MSVOA_W
ClientSampleId :
RBR-2000051

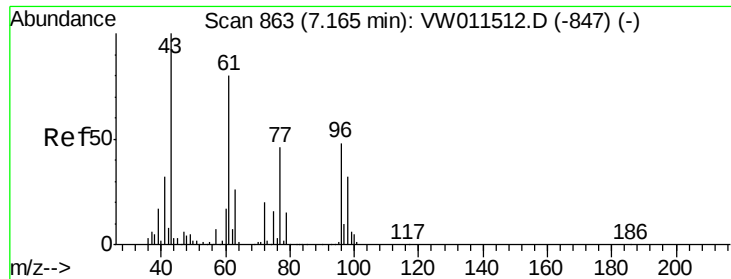
Tgt Ion: 84 Resp: 422
Ion Ratio Lower Upper
84 100
49 167.7 117.8 176.6
51 0.0 37.0 55.4#
86 36.7 51.8 77.8#



#25
2-Butanone
Concen: 2.095 ug/l
RT: 7.17 min Scan# 864
Delta R.T. -0.00 min
Lab File: VW011730.D
Acq: 06 Aug 2019 00:15

Tgt Ion: 43 Resp: 116
Ion Ratio Lower Upper
43 100
72 0.0 16.6 24.8#





#26

2,2-Dichloropropane

Concen: 2.717 ug/l

RT: 7.13 min Scan# 857

Delta R.T. -0.04 min

Lab File: VW011730.D

Acq: 06 Aug 2019 00:15

Instrument :

MSVOA_W

ClientSampleId :

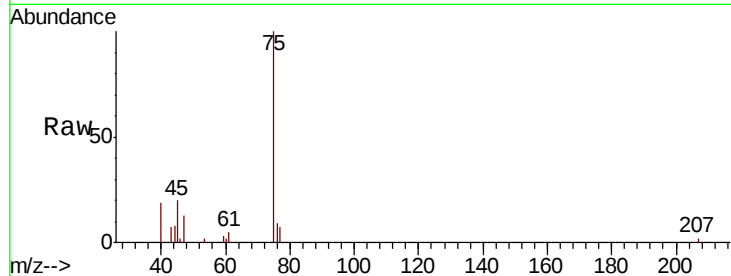
RBR-2000051

Tgt Ion: 77 Resp: 433

Ion Ratio Lower Upper

77 100

97 0.0 10.8 32.4#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW

7.13

200

150

100

50

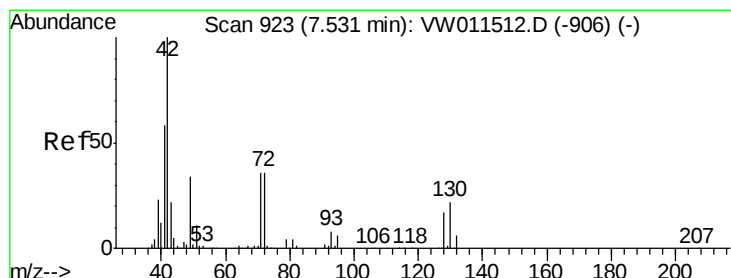
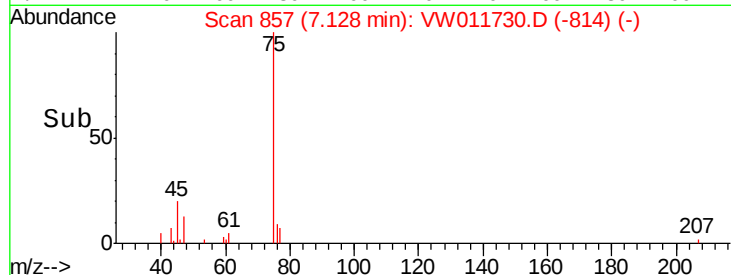
0

7.05

7.10

7.15

Time-->



#29

Tetrahydrofuran

Concen: 2.970 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW011730.D

Acq: 06 Aug 2019 00:15

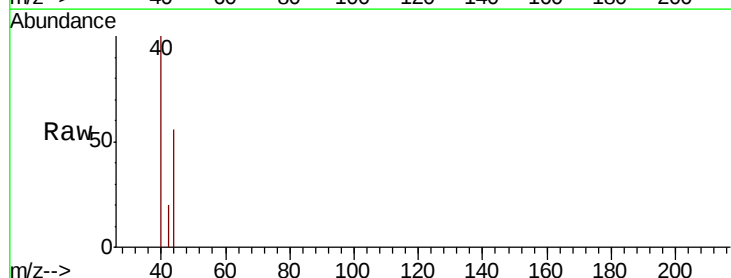
Tgt Ion: 42 Resp: 94

Ion Ratio Lower Upper

42 100

72 0.0 27.1 40.7#

71 0.0 26.2 39.4#



Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW

80

60

40

20

0

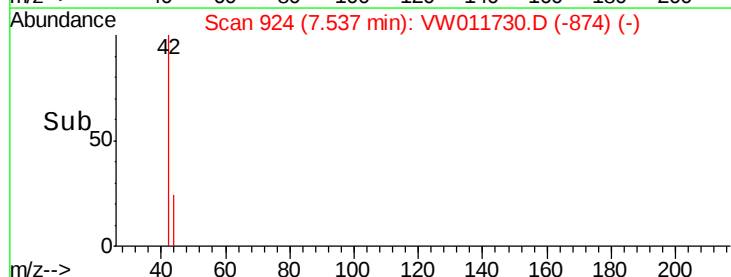
7.50

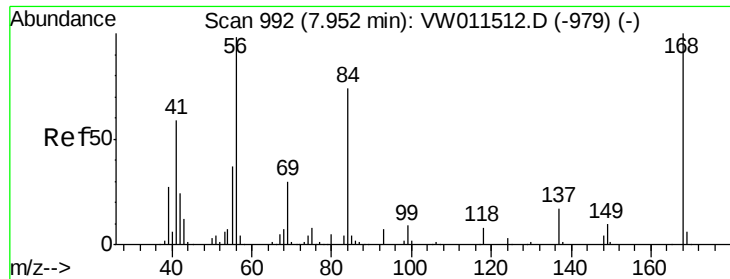
7.52

7.54

7.56

Time-->

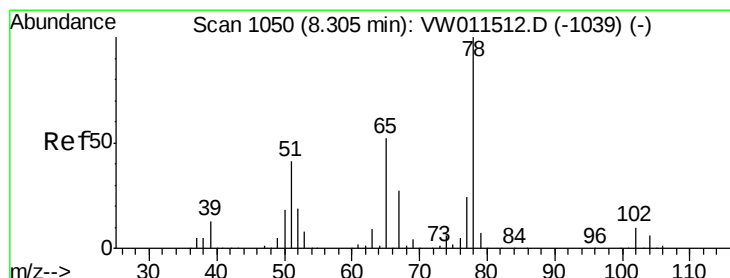
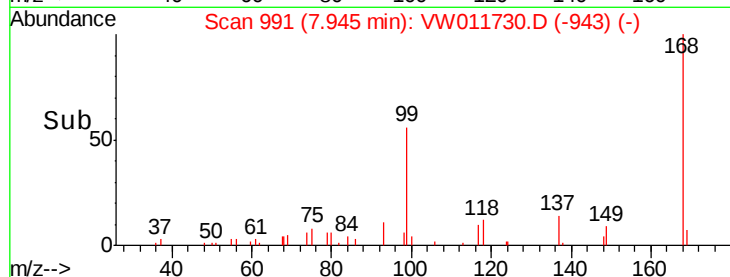
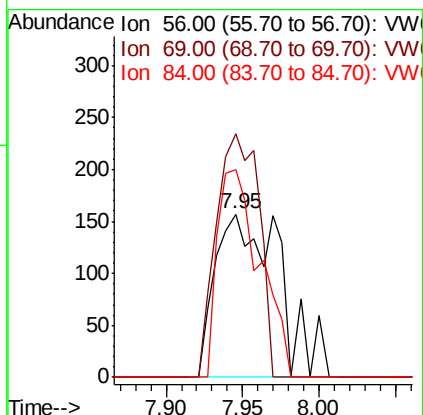
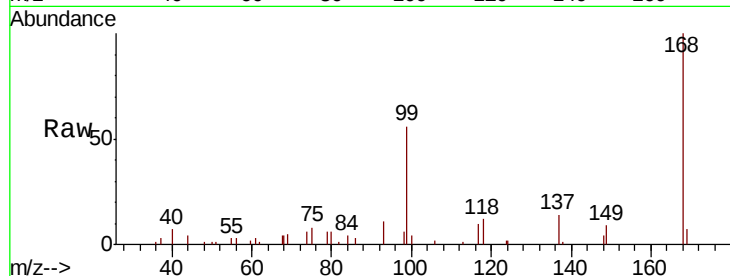




#31
Cyclohexane
Concen: 1.866 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW011730.D
Acq: 06 Aug 2019 00:15

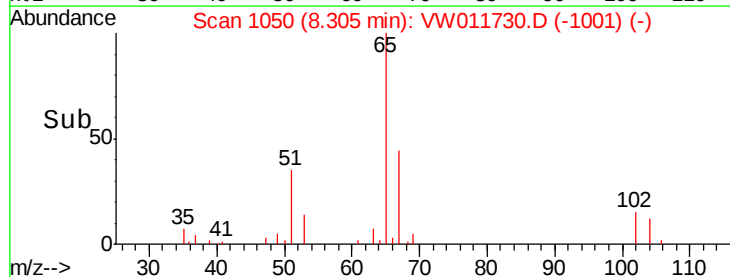
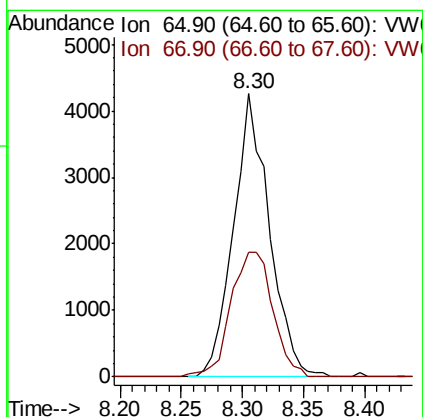
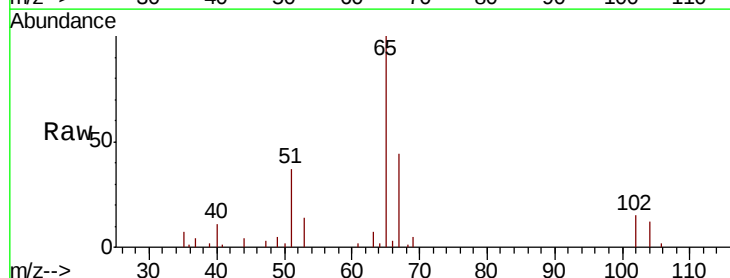
Instrument :
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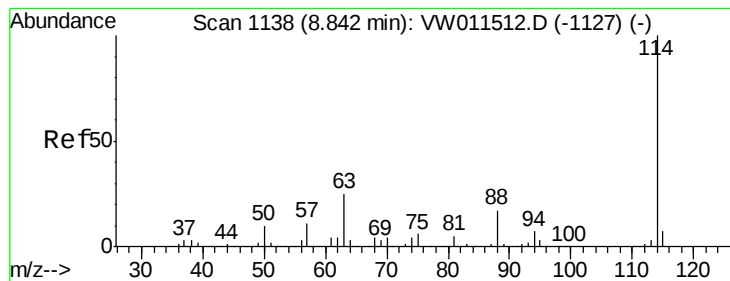
Tgt Ion: 56 Resp: 464
Ion Ratio Lower Upper
56 100
69 149.0 24.3 36.5#
84 127.4 60.4 90.6#



#33
1,2-Dichloroethane-d4
Concen: 65.240 ug/l
RT: 8.30 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VW011730.D
Acq: 06 Aug 2019 00:15

Tgt Ion: 65 Resp: 8678
Ion Ratio Lower Upper
65 100
67 51.4 0.0 105.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW011730.D

Acq: 06 Aug 2019 00:15

Instrument :

MSVOA_W

ClientSampleId :

RBR-2000051

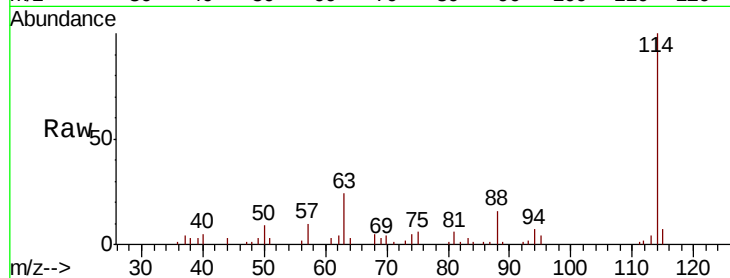
Tgt Ion:114 Resp: 18826

Ion Ratio Lower Upper

114 100

63 23.5 0.0 49.2

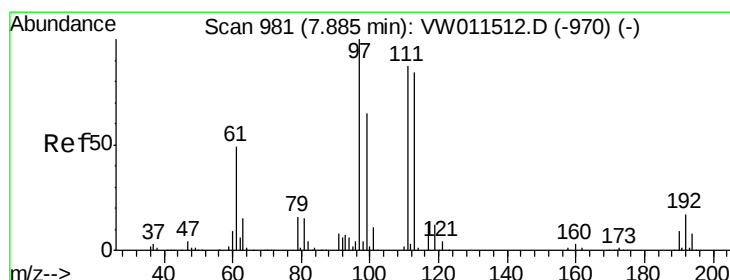
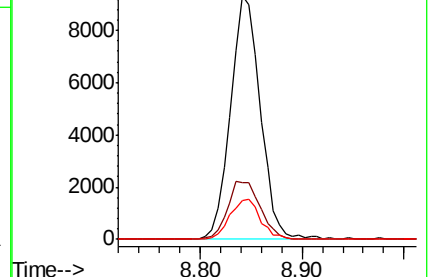
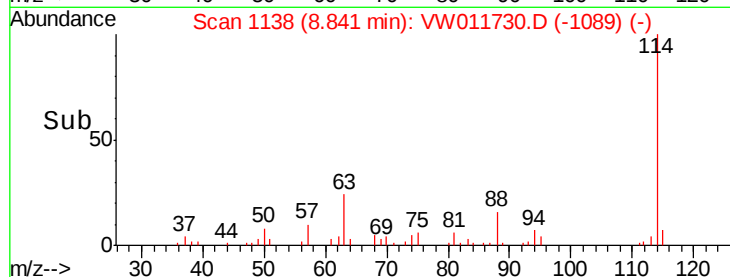
88 15.8 0.0 33.8



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: 62.708 ug/l

RT: 7.89 min Scan# 982

Delta R.T. 0.01 min

Lab File: VW011730.D

Acq: 06 Aug 2019 00:15

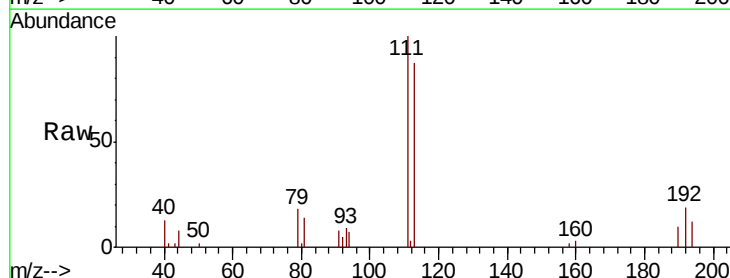
Tgt Ion:113 Resp: 6623

Ion Ratio Lower Upper

113 100

111 104.6 82.7 124.1

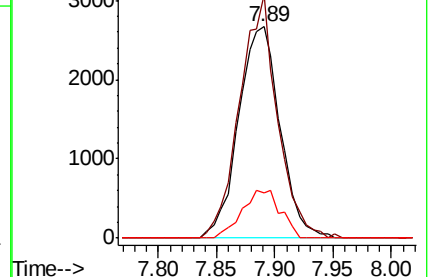
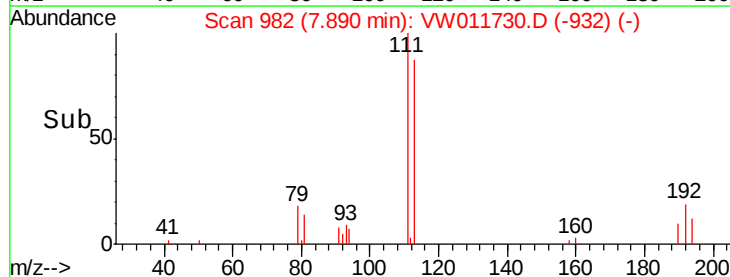
192 21.0 16.1 24.1

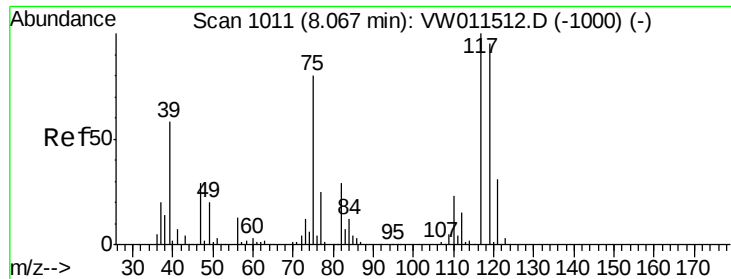


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

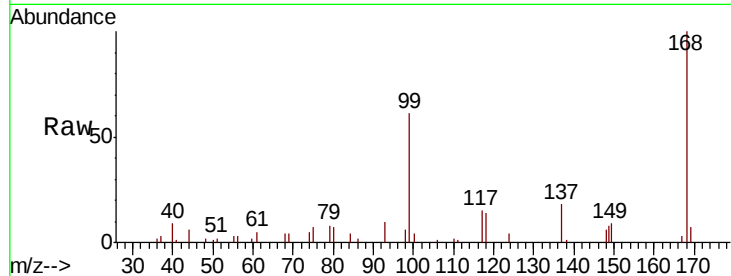




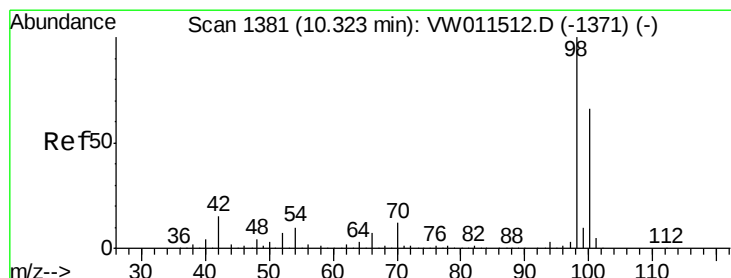
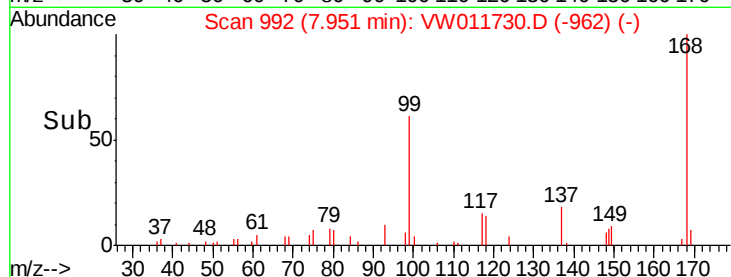
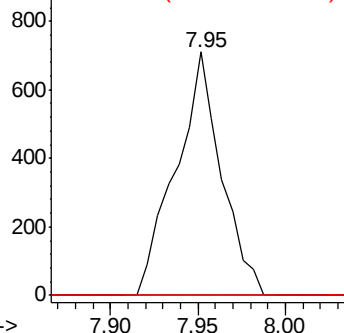
#38
Carbon Tetrachloride
Concen: 7.668 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.12 min
Lab File: VW011730.D
Acq: 06 Aug 2019 00:15

Instrument :
MSVOA_W
ClientSampleId :
RBR-2000051

Tgt Ion: 117 Resp: 1285
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.6#
121 0.0 24.7 37.1#

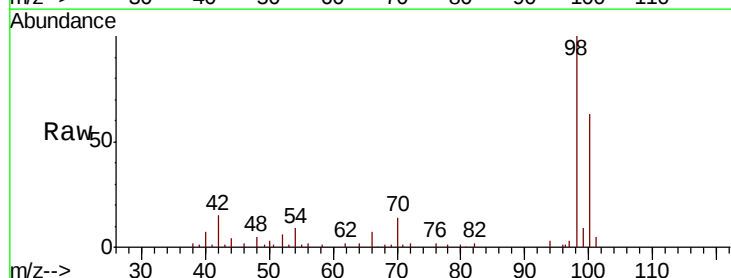


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

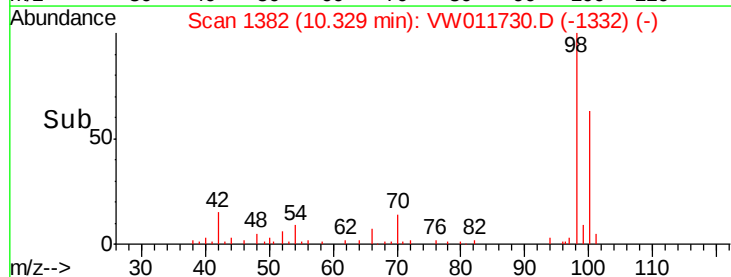
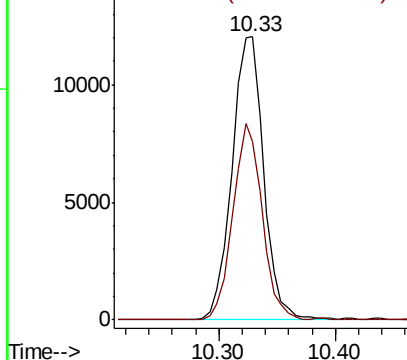


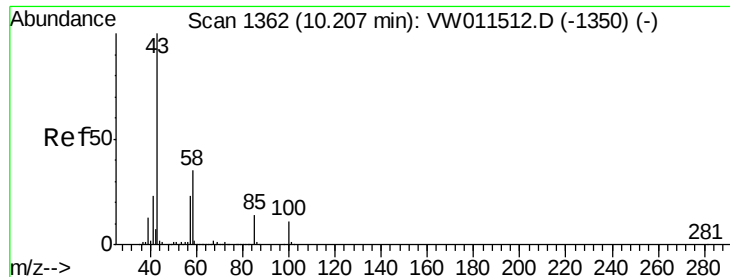
#50
Toluene-d8
Concen: 52.695 ug/l
RT: 10.33 min Scan# 1382
Delta R.T. 0.01 min
Lab File: VW011730.D
Acq: 06 Aug 2019 00:15

Tgt Ion: 98 Resp: 22787
Ion Ratio Lower Upper
98 100
100 64.2 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): VW

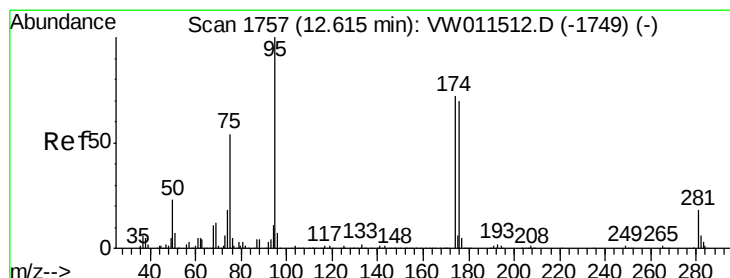
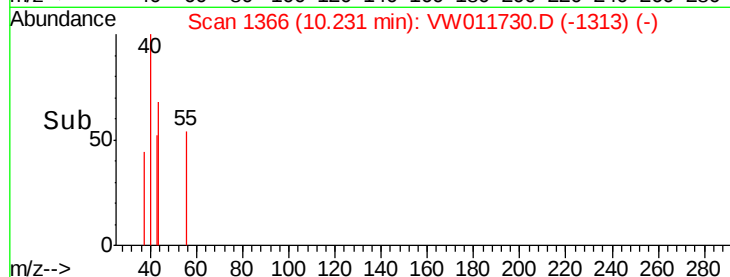
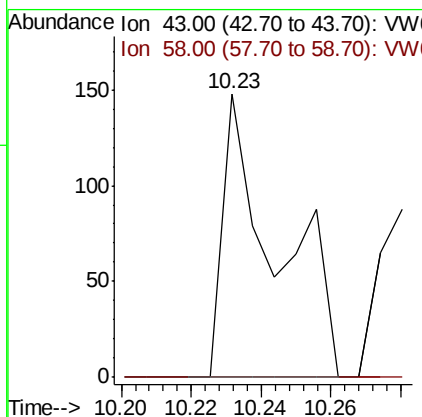
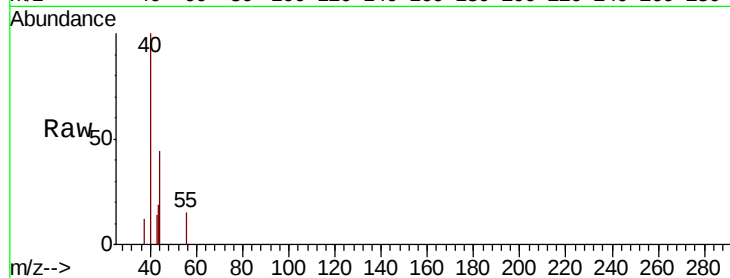




#51
 4-Methyl-2-Pentanone
 Concen: 1.467 ug/l
 RT: 10.23 min Scan# 1366
 Delta R.T. 0.02 min
 Lab File: VW011730.D
 Acq: 06 Aug 2019 00:15

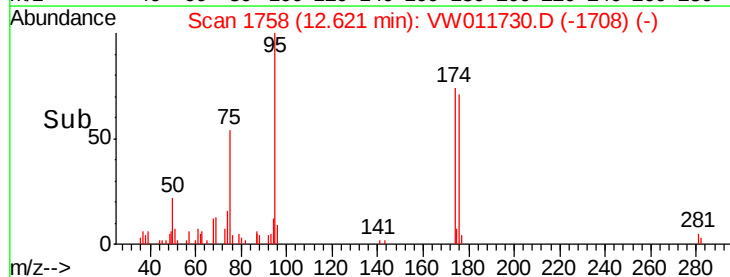
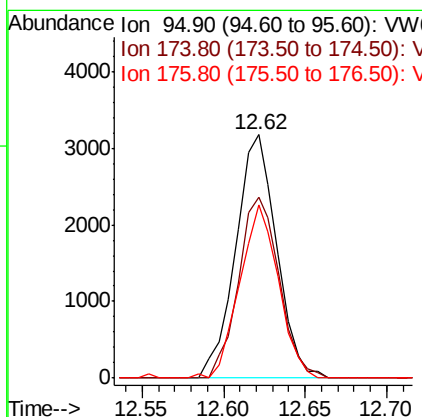
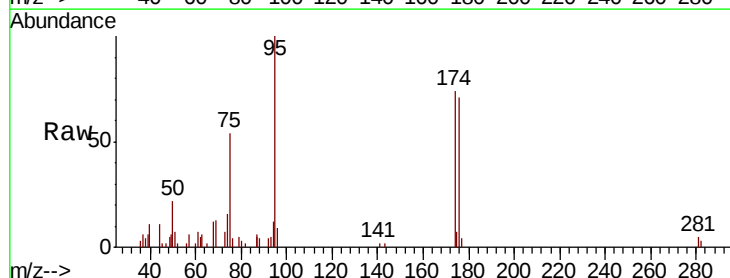
Instrument :
 MSVOA_W
 ClientSampleId :
 RBR-2000051

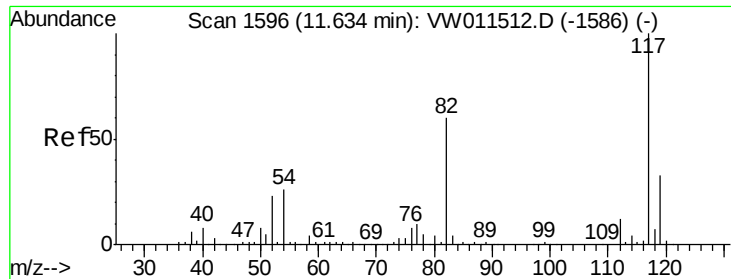
Tgt Ion: 43 Resp: 158
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.2 42.2#



#62
 4-Bromofluorobenzene
 Concen: 35.948 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.01 min
 Lab File: VW011730.D
 Acq: 06 Aug 2019 00:15

Tgt Ion: 95 Resp: 5542
 Ion Ratio Lower Upper
 95 100
 174 74.2 0.0 150.2
 176 67.5 0.0 144.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. -0.01 min

Lab File: VW011730.D

Acq: 06 Aug 2019 00:15

Instrument :

MSVOA_W

ClientSampleId :

RBR-2000051

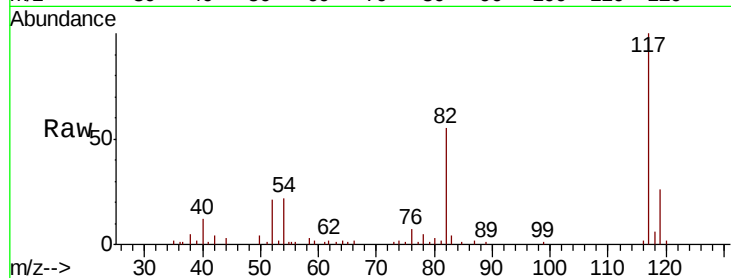
Tgt Ion:117 Resp: 14856

Ion Ratio Lower Upper

117 100

82 54.9 47.9 71.9

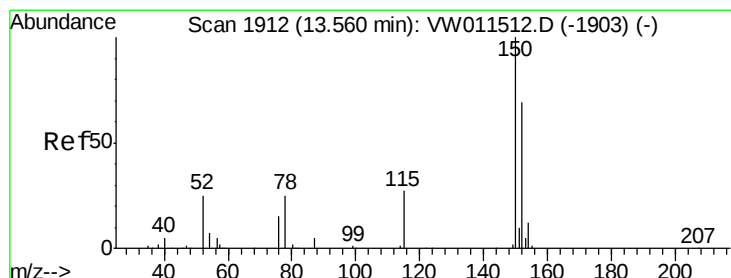
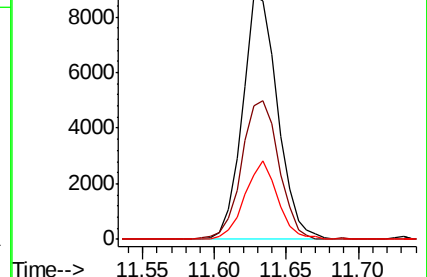
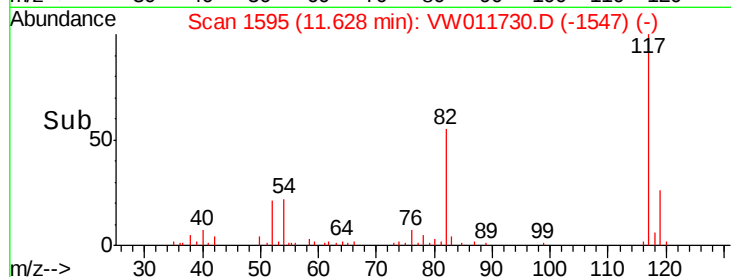
119 26.5 26.2 39.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW011730.D

Acq: 06 Aug 2019 00:15

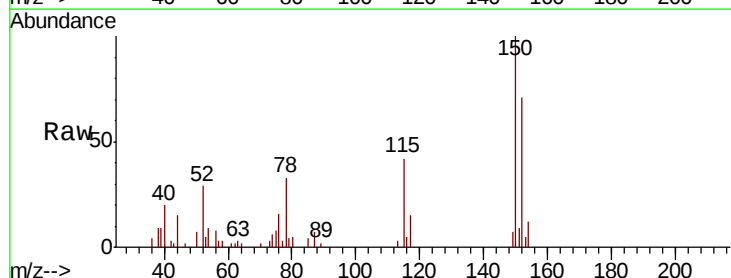
Tgt Ion:152 Resp: 2890

Ion Ratio Lower Upper

152 100

115 58.0 30.5 91.5

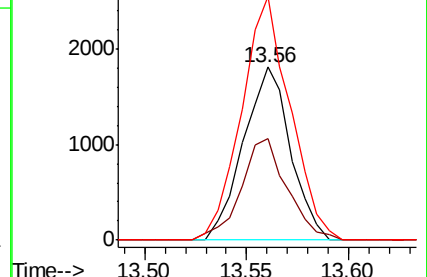
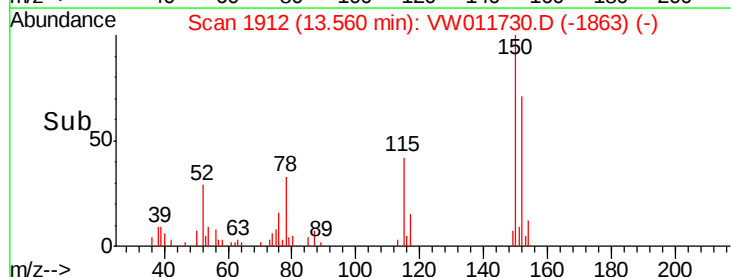
150 145.5 0.0 352.6

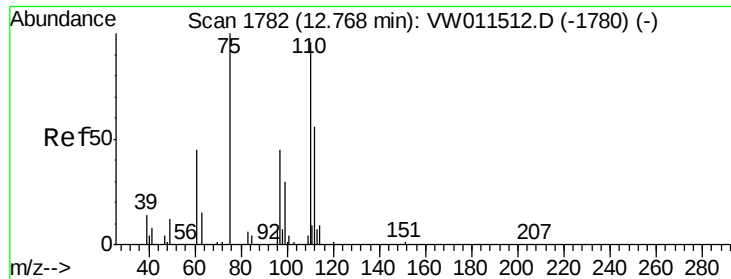


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 90.616 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW011730.D

Acq: 06 Aug 2019 00:15

Instrument :

MSVOA_W

ClientSampleId :

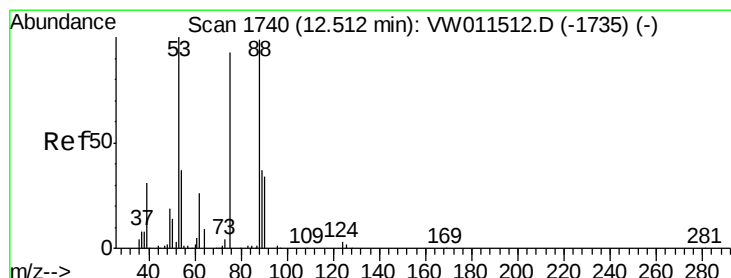
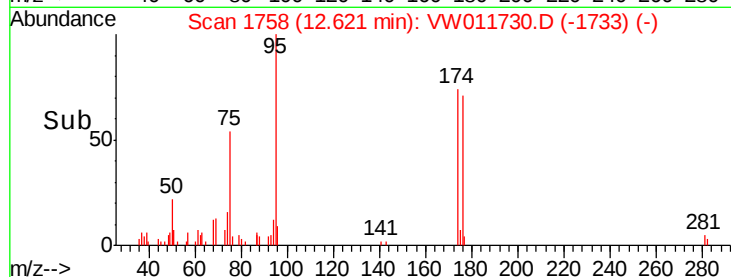
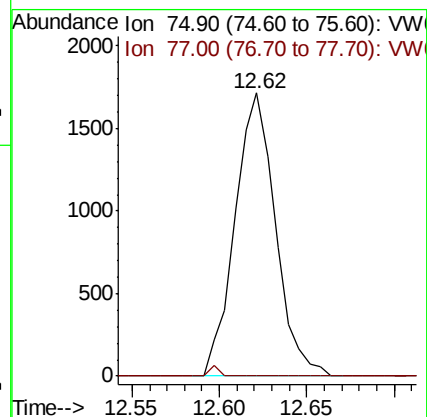
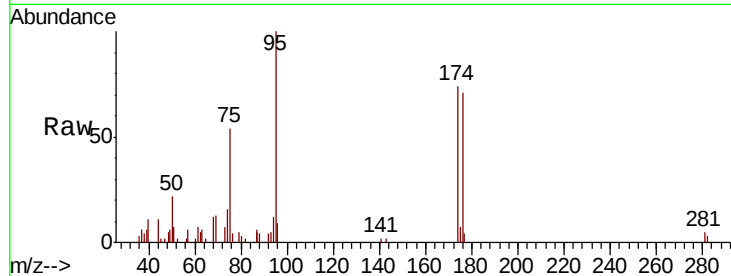
RBR-2000051

Tgt Ion: 75 Resp: 2771

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



#81

trans-1,4-Dichloro-2-butene

Concen: 208.839 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW011730.D

Acq: 06 Aug 2019 00:15

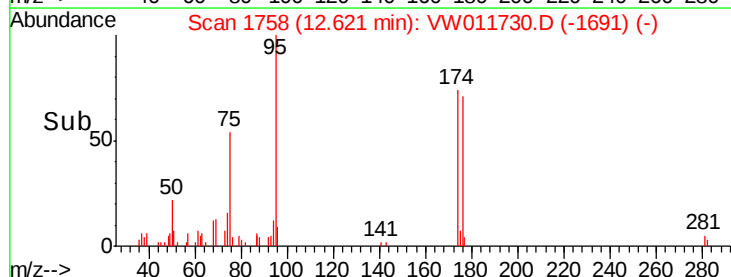
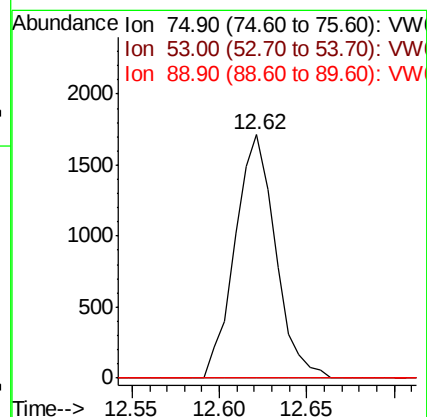
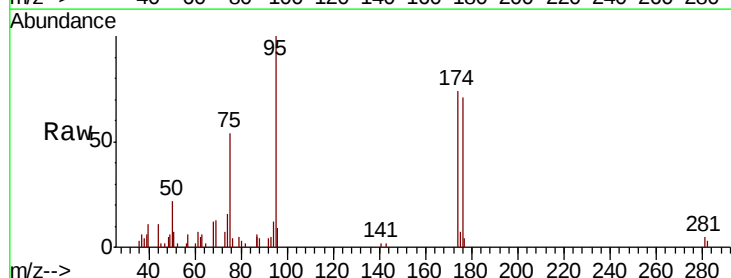
Tgt Ion: 75 Resp: 2771

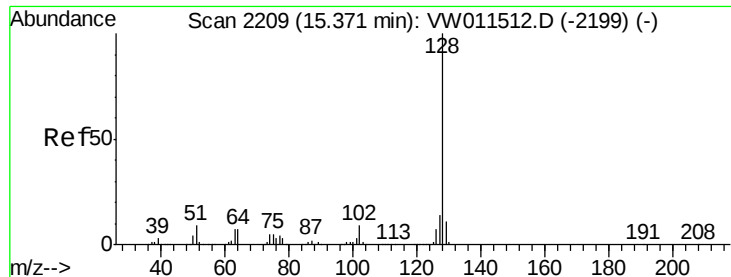
Ion Ratio Lower Upper

75 100

53 0.0 88.0 132.0#

89 0.0 35.3 52.9#

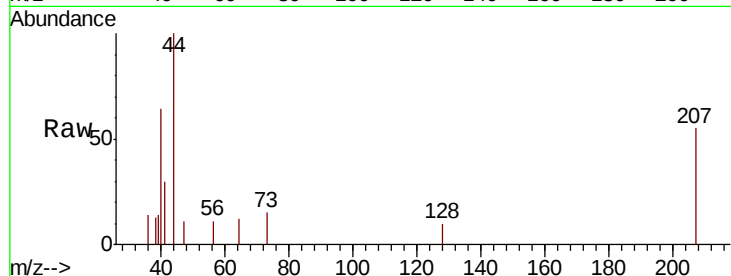




#95
 Naphthalene
 Concen: 2.385 ug/l
 RT: 15.36 min Scan# 2208
 Delta R.T. -0.01 min
 Lab File: VW011730.D
 Acq: 06 Aug 2019 00:15

Instrument :
 MSVOA_W
 ClientSampleId :
 RBR-2000051

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	16.0#
129	0.0	8.6	13.0#



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

