

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102418\
 Data File : VX005570.D
 Acq On : 25 Oct 2018 04:58
 Operator : JC/MD
 Sample : J5642-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RBR200044

Quant Time: Oct 25 05:58:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 24 13:13:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.68	168	205918	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.86	114	316172	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	285590	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	134461	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	131610	52.36	ug/l	0.00
Spiked Amount			Recovery	=	104.72%	
35) Dibromofluoromethane	5.51	113	106400	49.70	ug/l	0.01
Spiked Amount			Recovery	=	99.40%	
50) Toluene-d8	8.71	98	377839	49.12	ug/l	0.00
Spiked Amount			Recovery	=	98.24%	
62) 4-Bromofluorobenzene	11.14	95	124141	42.73	ug/l	0.00
Spiked Amount			Recovery	=	85.46%	

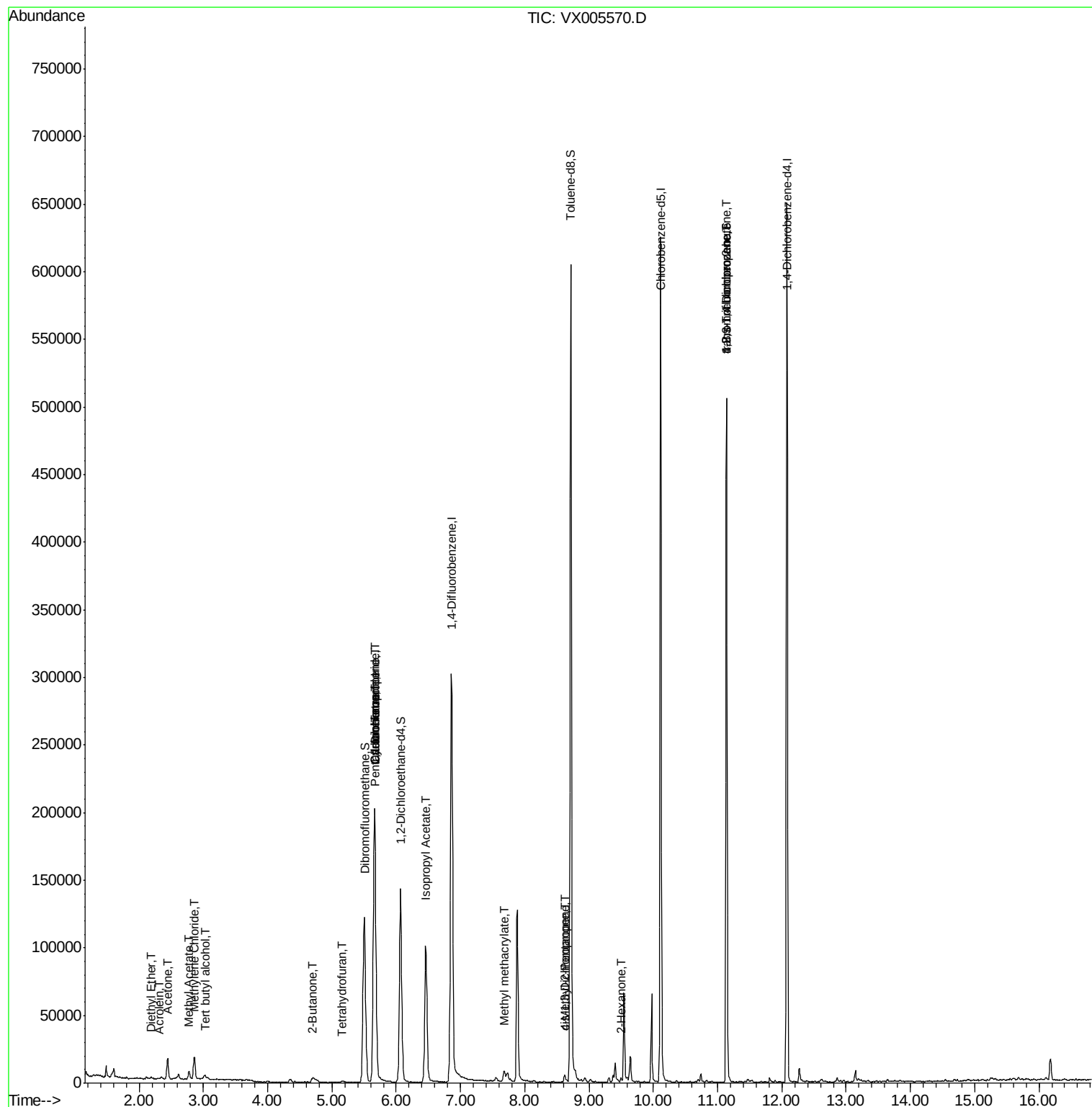
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.19	74	337	0.239	ug/l	91
11) Tert butyl alcohol	3.03	59	2007	2.967	ug/l #	72
13) Acrolein	2.31	56	128	0.371	ug/l #	1
16) Acetone	2.45	43	17201	12.950	ug/l	95
18) Methyl Acetate	2.78	43	7113	0.727	ug/l	97
20) Methylene Chloride	2.86	84	7487	3.366	ug/l	98
25) 2-Butanone	4.70	43	6427	3.178	ug/l	92
29) Tetrahydrofuran	5.15	42	1091	0.829	ug/l #	73
31) Cyclohexane	5.67	56	4073	1.202	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	14586	4.754	ug/l #	50
38) Carbon Tetrachloride	5.67	117	18793	5.815	ug/l #	16
43) Isopropyl Acetate	6.46	43	132810	22.636	ug/l	96
48) Methyl methacrylate	7.68	41	6571	2.299	ug/l #	20
51) 4-Methyl-2-Pentanone	8.62	43	2484	0.630	ug/l #	46
54) cis-1,3-Dichloropropene	8.62	75	892	0.259	ug/l #	54
59) 2-Hexanone	9.50	43	1750	0.563	ug/l	99
76) 1,2,3-Trichloropropane	11.14	75	62804	22.931	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	62804	72.032	ug/l #	10

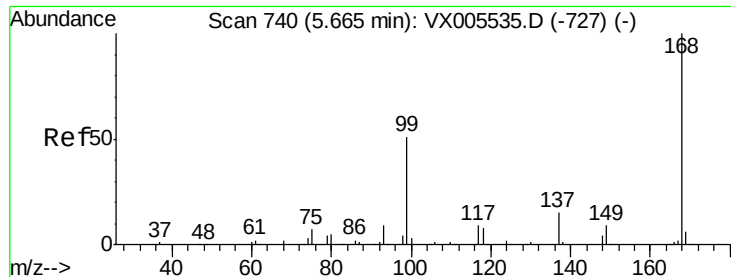
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.68 min Scan# 742

Delta R.T. 0.01 min

Lab File: VX005570.D

Acq: 25 Oct 2018 04:58

Instrument :

MSVOA_X

ClientSampleId :

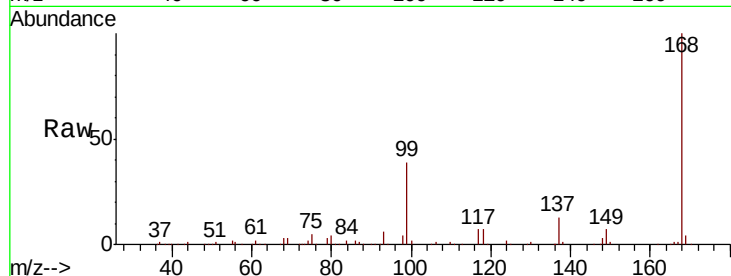
RBR200044

Tot Ion:168 Resp: 205918

Ion Ratio Lower Upper

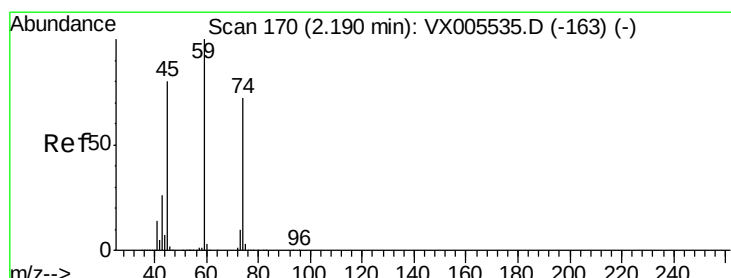
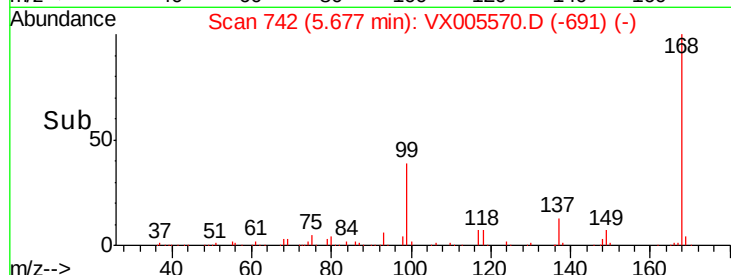
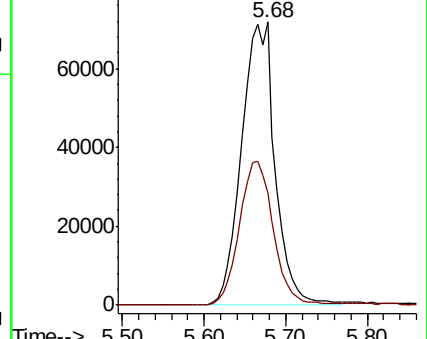
168 100

99 39.3 39.9 59.9#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#8

Diethyl Ether

Concen: 0.239 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX005570.D

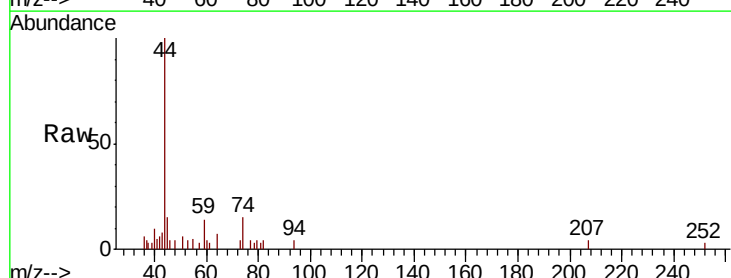
Acq: 25 Oct 2018 04:58

Tgt Ion: 74 Resp: 337

Ion Ratio Lower Upper

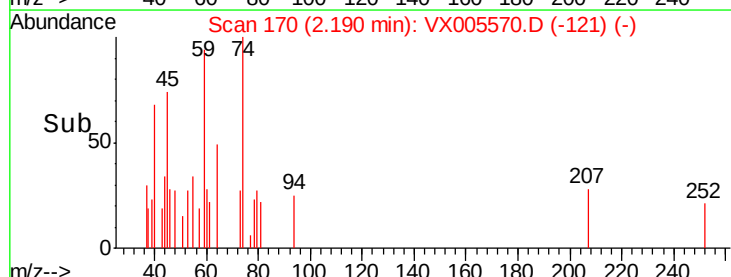
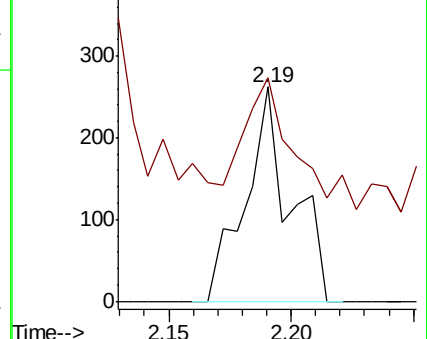
74 100

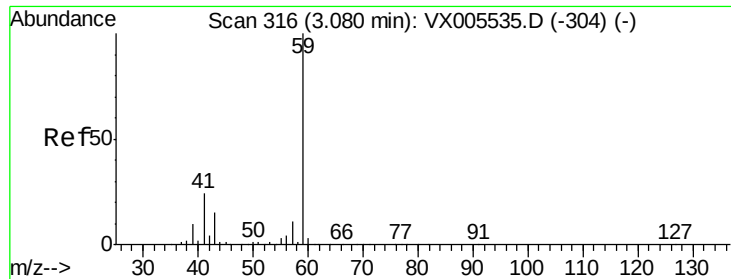
45 87.2 48.3 144.8



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

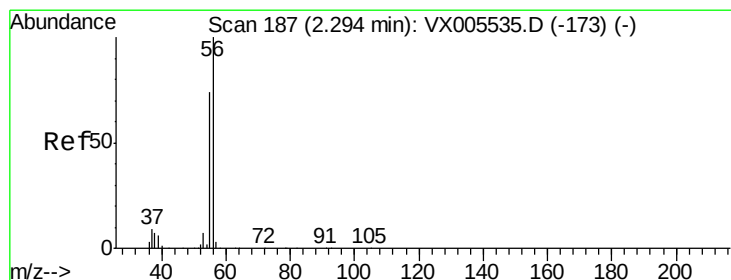
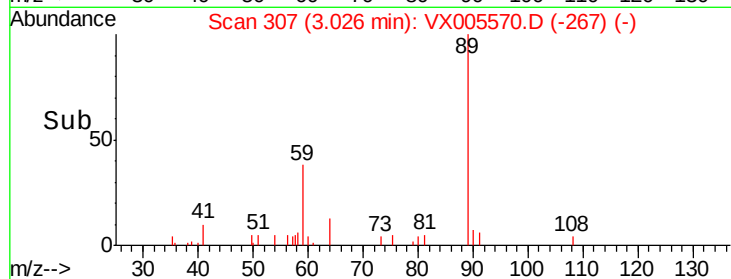
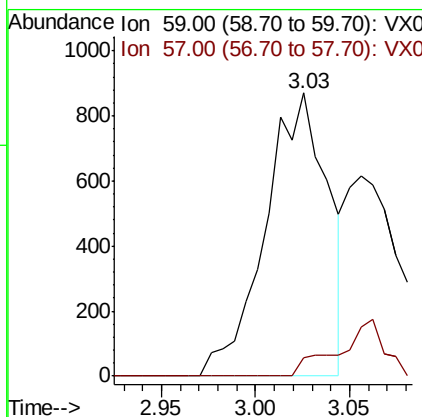
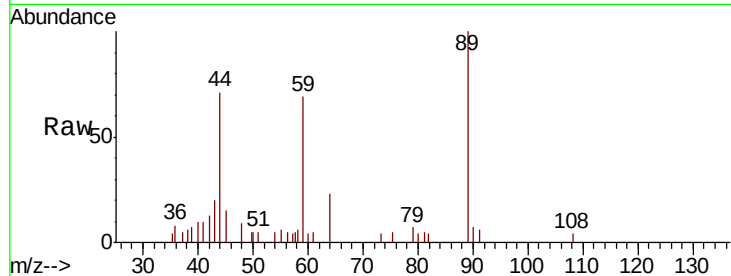




#11
Tert butyl alcohol
Concen: 2.967 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.05 min
Lab File: VX005570.D
Acq: 25 Oct 2018 04:58

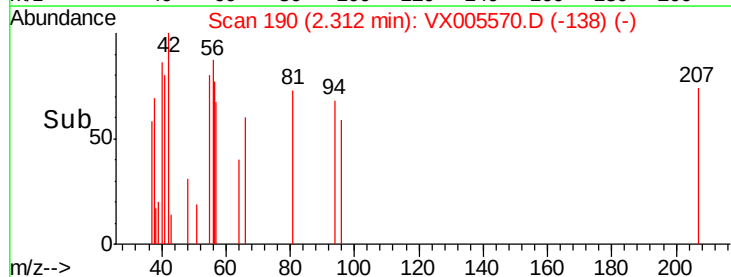
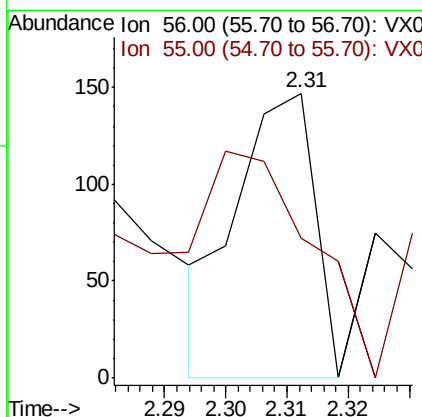
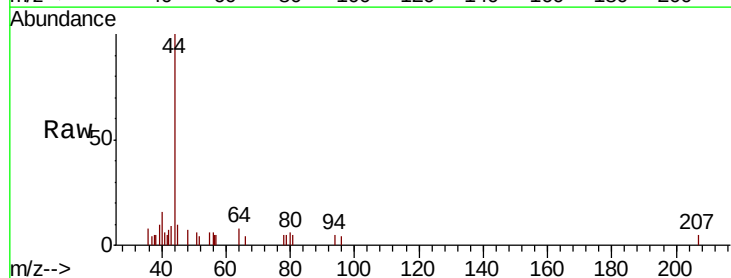
Instrument :
MSVOA_X
ClientSampleId :
RBR200044

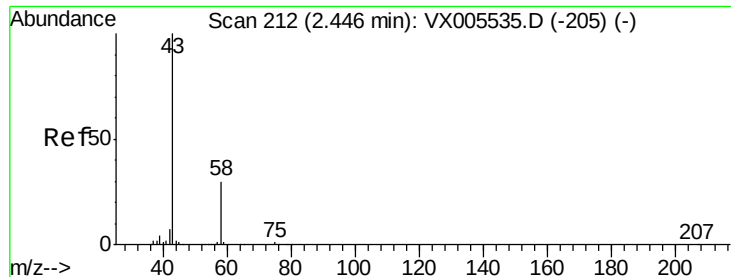
Tot Ion: 59 Resp: 2007
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 0.371 ug/l
RT: 2.31 min Scan# 190
Delta R.T. 0.02 min
Lab File: VX005570.D
Acq: 25 Oct 2018 04:58

Tgt Ion: 56 Resp: 128
Ion Ratio Lower Upper
56 100
55 182.8 54.7 82.1#





#16

Acetone

Concen: 12.950 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005570.D

Acq: 25 Oct 2018 04:58

Instrument :

MSVOA_X

ClientSampled :

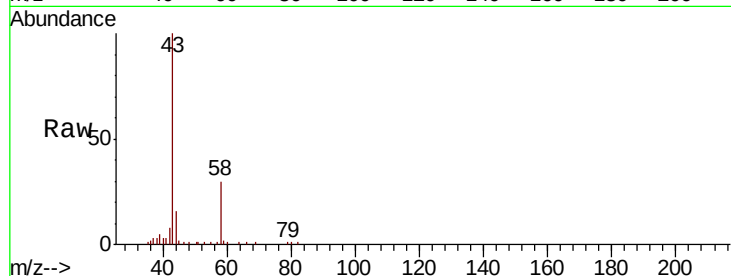
RBR200044

Tot Ion: 43 Resp: 17201

Ion Ratio Lower Upper

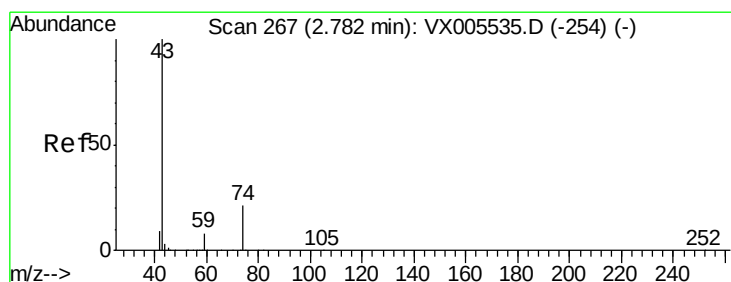
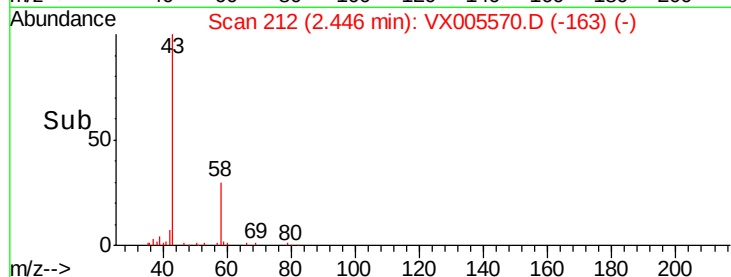
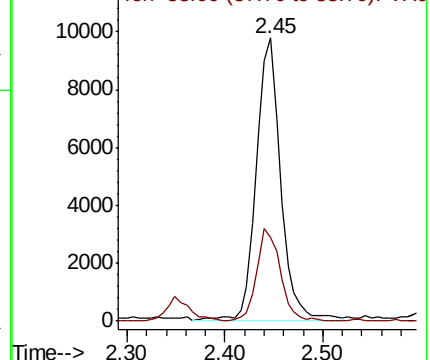
43 100

58 29.8 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.727 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX005570.D

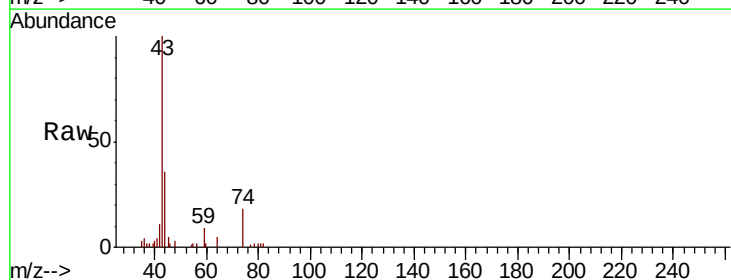
Acq: 25 Oct 2018 04:58

Tgt Ion: 43 Resp: 7113

Ion Ratio Lower Upper

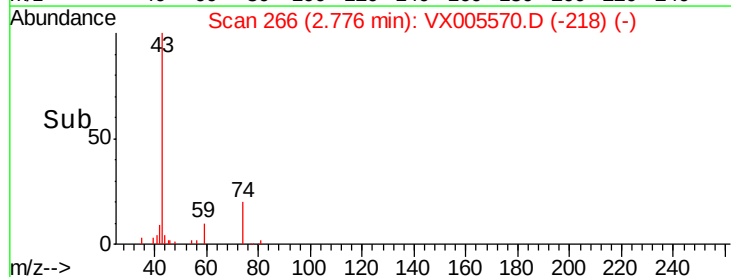
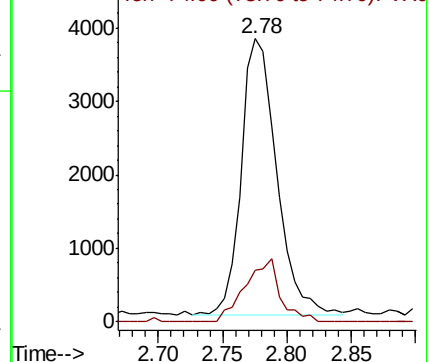
43 100

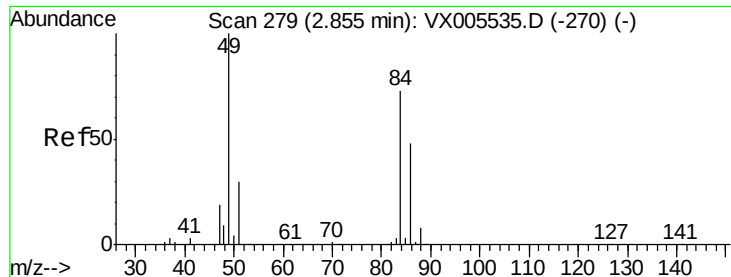
74 22.7 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#20

Methvlene Chloride

Concen: 3.366 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX005570.D

Acq: 25 Oct 2018 04:58

Instrument :

MSVOA_X

ClientSampleId :

RBR200044

Tot Ion: 84 Resp: 7487

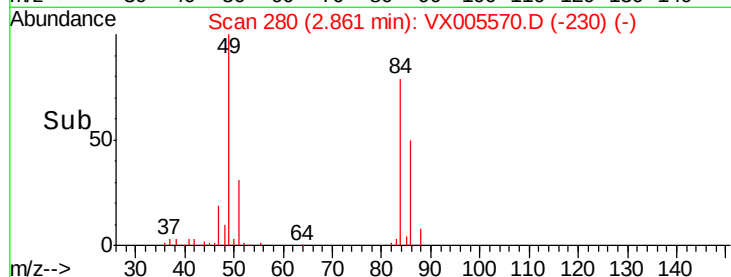
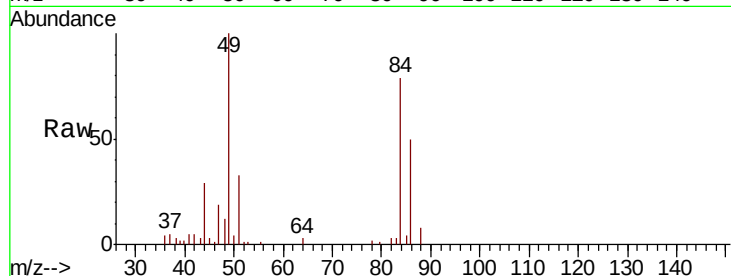
Ion Ratio Lower Upper

84 100

49 126.8 101.2 151.8

51 41.3 29.5 44.3

86 62.8 52.3 78.5

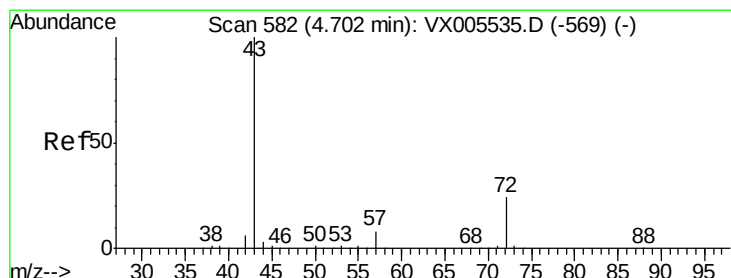
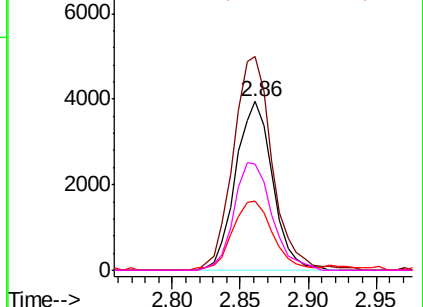


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 3.178 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.01 min

Lab File: VX005570.D

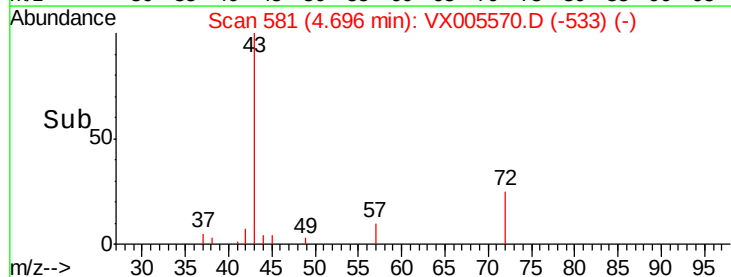
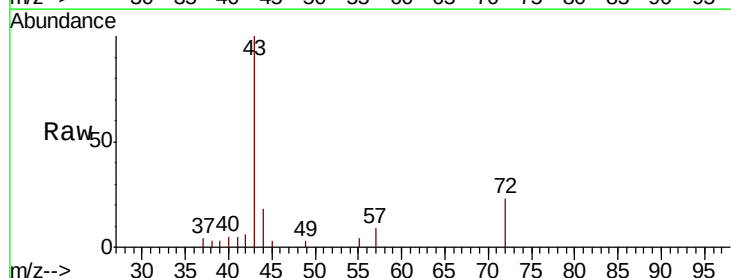
Acq: 25 Oct 2018 04:58

Tgt Ion: 43 Resp: 6427

Ion Ratio Lower Upper

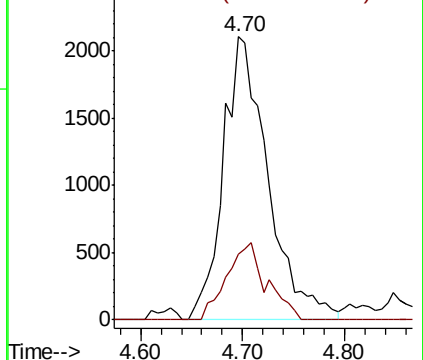
43 100

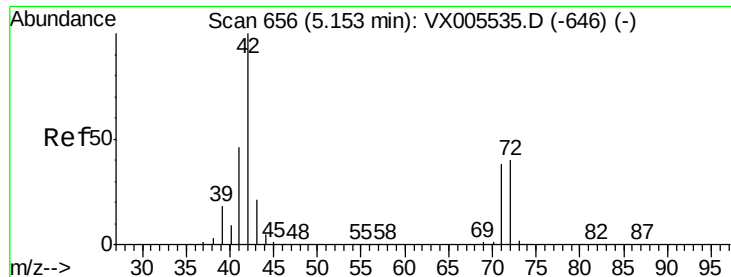
72 23.4 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.829 ug/l

RT: 5.15 min Scan# 656

Delta R.T. -0.00 min

Lab File: VX005570.D

Acq: 25 Oct 2018 04:58

Instrument :

MSVOA_X

ClientSampleId :

RBR200044

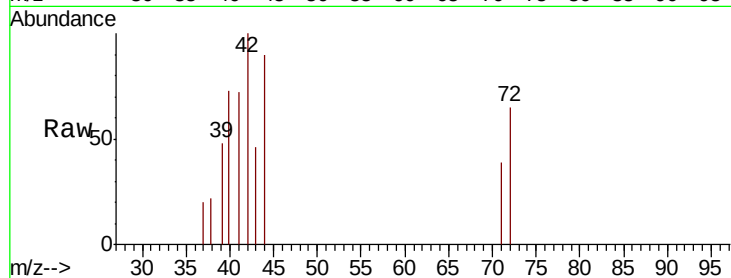
Tot Ion: 42 Resp: 1091

Ion Ratio Lower Upper

42 100

72 33.9 37.4 56.0#

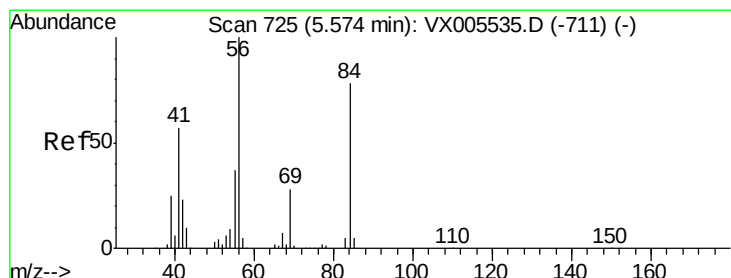
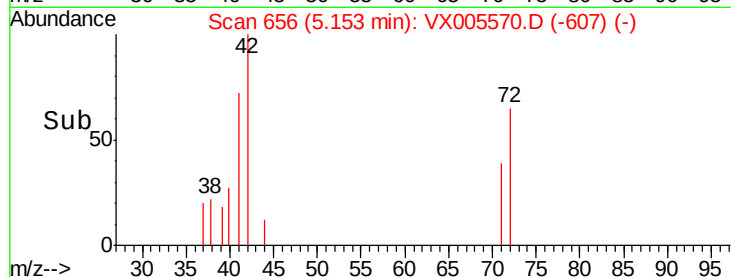
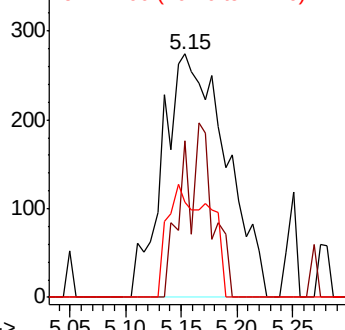
71 20.5 34.5 51.7#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 1.202 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX005570.D

Acq: 25 Oct 2018 04:58

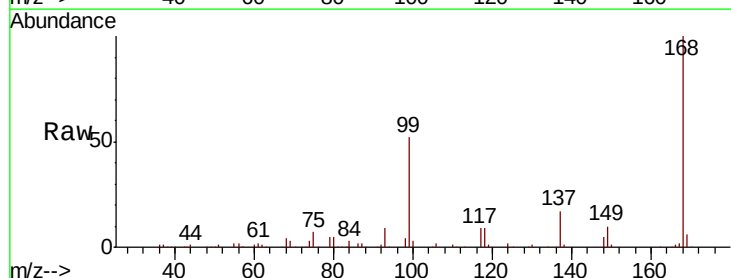
Tgt Ion: 56 Resp: 4073

Ion Ratio Lower Upper

56 100

69 174.9 25.4 38.2#

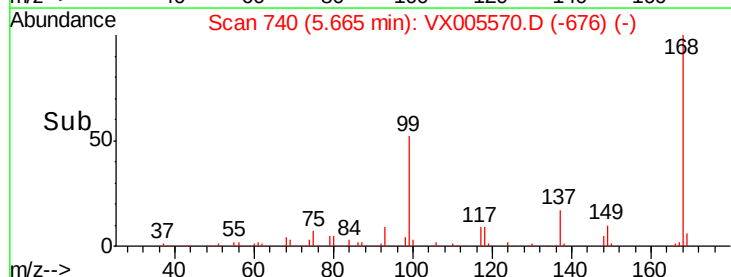
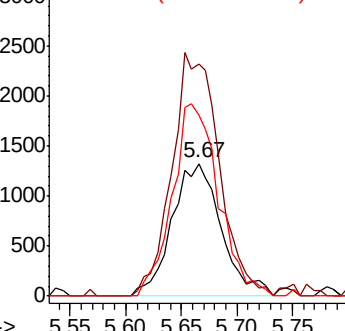
84 136.2 71.4 107.2#

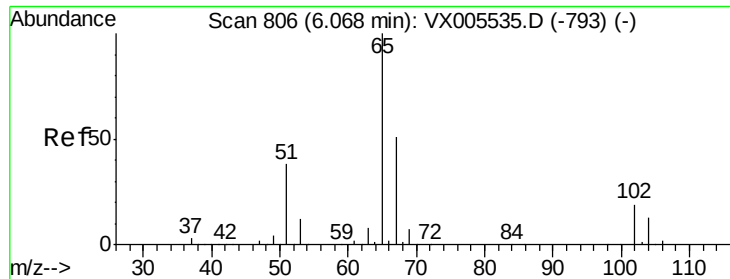


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

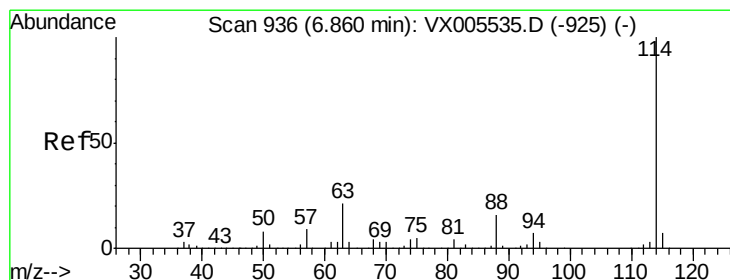
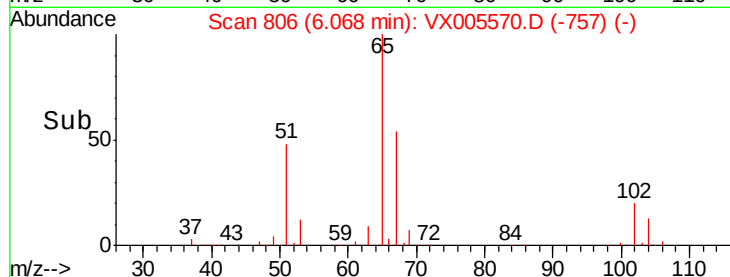
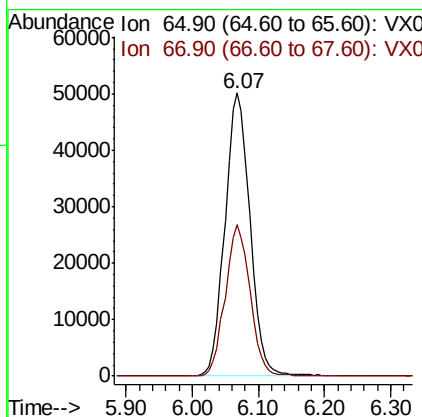
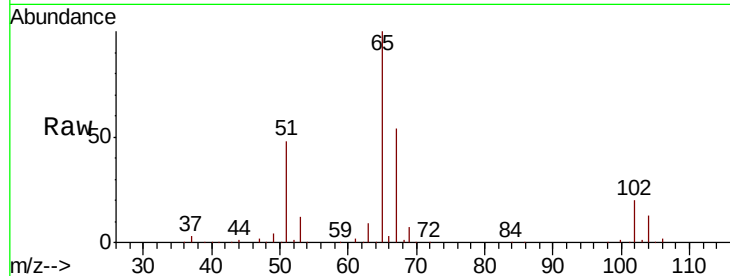




#33
 1,2-Dichloroethane-d4
 Concen: 52.359 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX005570.D
 Acq: 25 Oct 2018 04:58

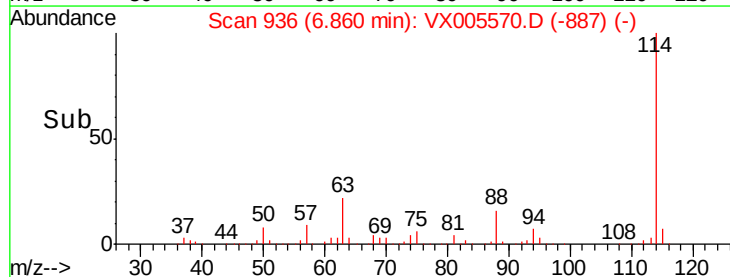
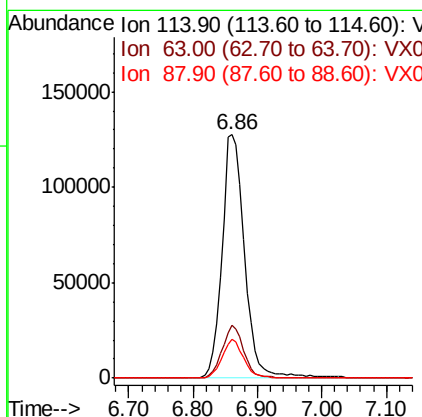
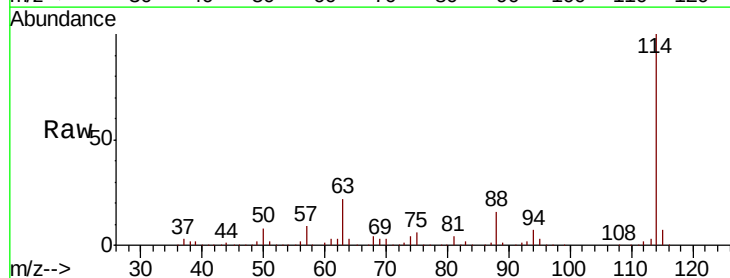
Instrument :
 MSVOA_X
 ClientSampleId :
 RBR200044

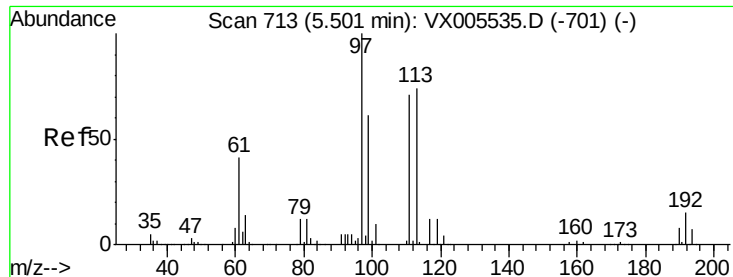
Tot Ion: 65 Resp: 131610
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX005570.D
 Acq: 25 Oct 2018 04:58

Tgt Ion: 114 Resp: 316172
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 39.0
 88 15.7 0.0 30.4





#35

Dibromofluoromethane

Concen: 49.700 ug/l

RT: 5.51 min Scan# 715

Delta R.T. 0.01 min

Lab File: VX005570.D

Acq: 25 Oct 2018 04:58

Instrument :

MSVOA_X

ClientSampled :

RBR200044

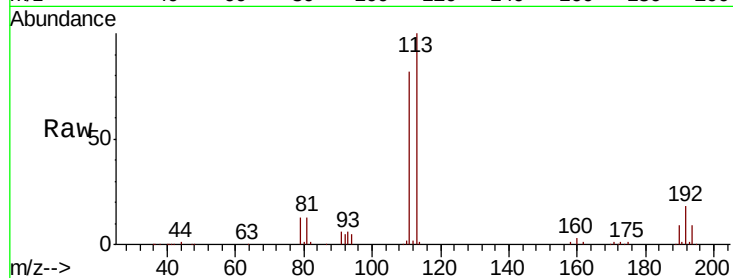
Tot Ion:113 Resp: 106400

Ion Ratio Lower Upper

113 100

111 100.2 82.4 123.6

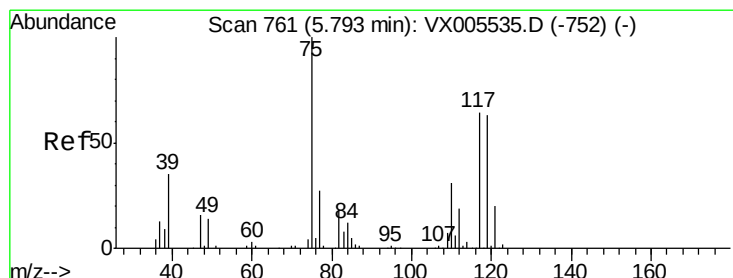
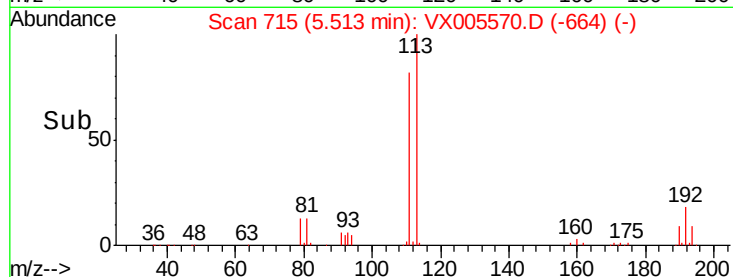
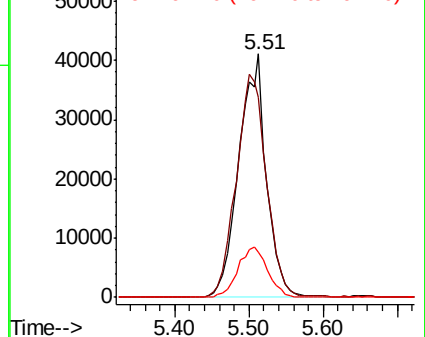
192 22.4 19.4 29.2



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: 4.754 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX005570.D

Acq: 25 Oct 2018 04:58

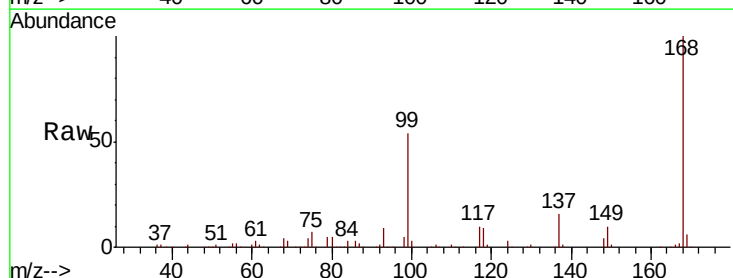
Tgt Ion: 75 Resp: 14586

Ion Ratio Lower Upper

75 100

110 9.6 18.0 54.0#

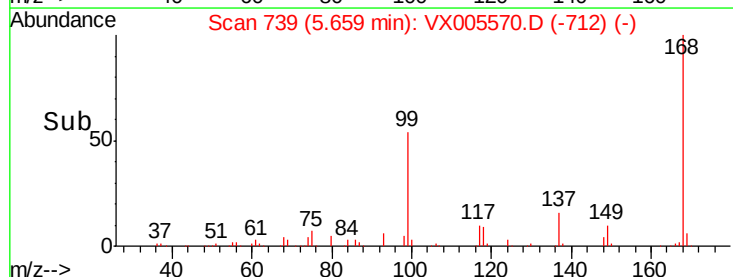
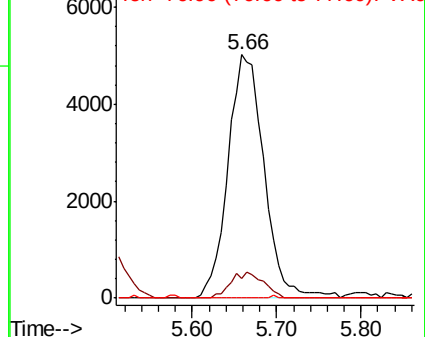
77 0.0 24.6 36.8#

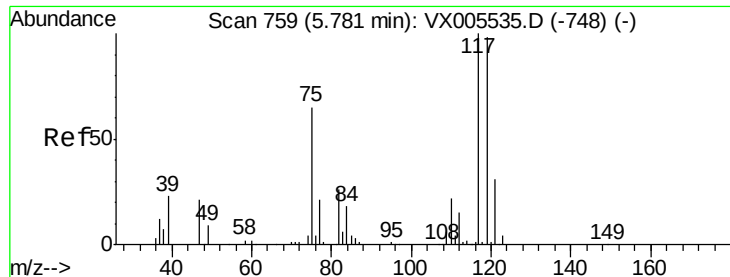


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

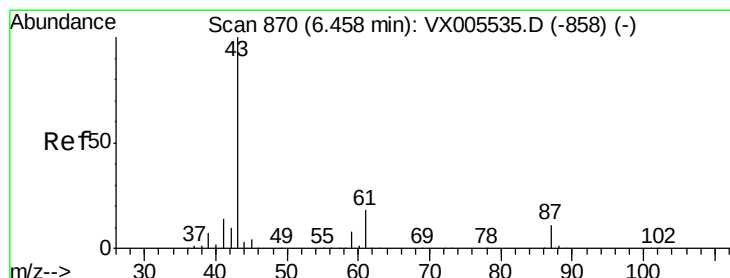
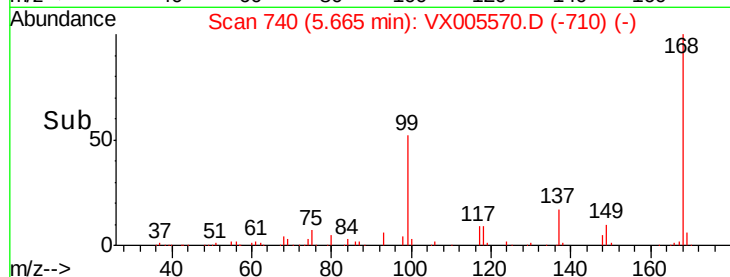
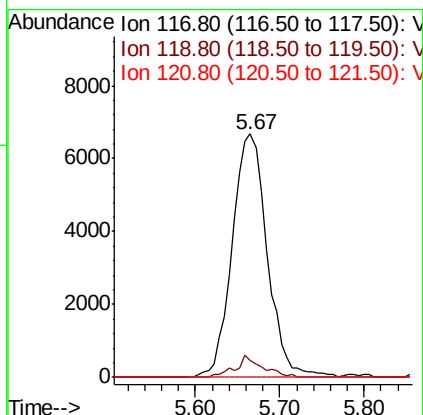
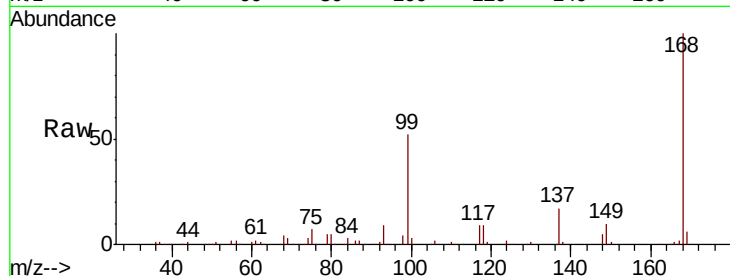




#38
Carbon Tetrachloride
Concen: 5.815 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX005570.D
Acq: 25 Oct 2018 04:58

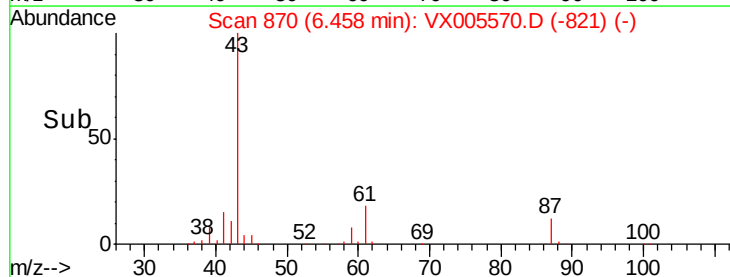
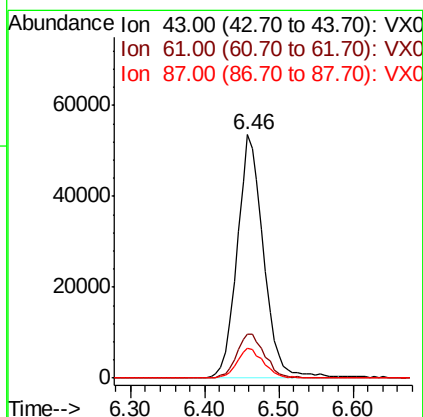
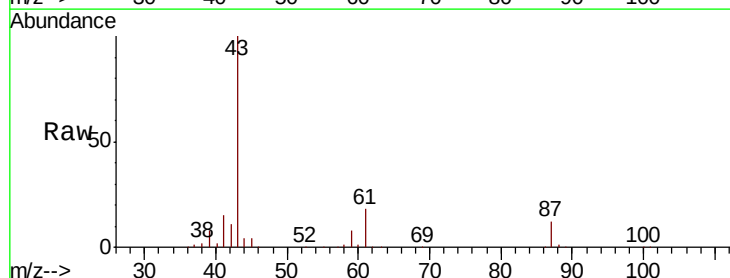
Instrument :
MSVOA_X
ClientSampleId :
RBR200044

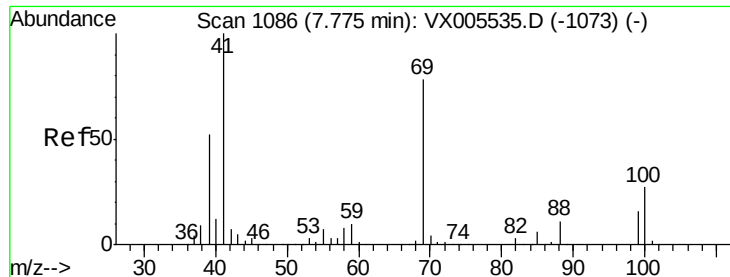
Tot Ion:117 Resp: 18793
Ion Ratio Lower Upper
117 100
119 6.9 78.8 118.2#
121 0.0 24.9 37.3#



#43
Isopropyl Acetate
Concen: 22.636 ug/l
RT: 6.46 min Scan# 870
Delta R.T. -0.00 min
Lab File: VX005570.D
Acq: 25 Oct 2018 04:58

Tgt Ion: 43 Resp: 132810
Ion Ratio Lower Upper
43 100
61 19.1 17.0 25.4
87 12.4 11.4 17.2

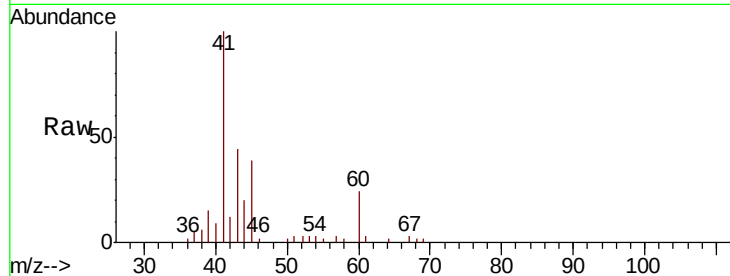




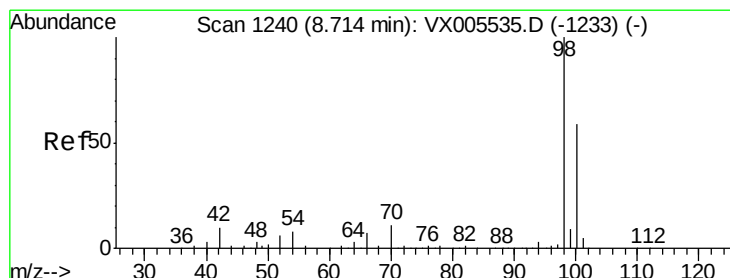
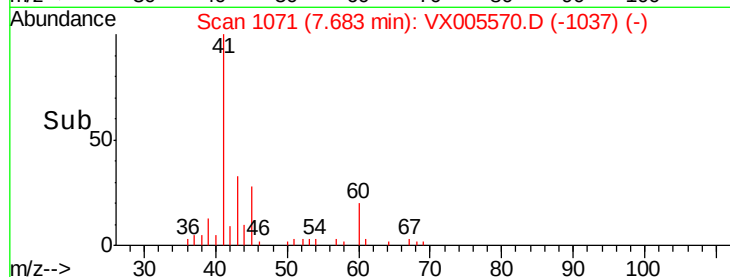
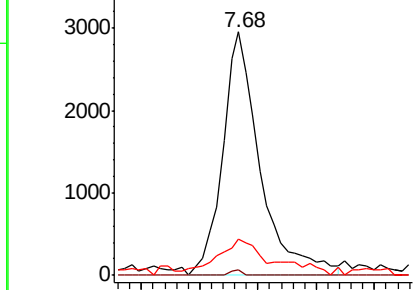
#48
Methvl methacrylate
Concen: 2.299 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX005570.D
Acq: 25 Oct 2018 04:58

Instrument :
MSVOA_X
ClientSampleId :
RBR200044

Tot Ion: 41 Resp: 6571
Ion Ratio Lower Upper
41 100
69 0.7 70.2 105.4#
39 13.1 42.7 64.1#

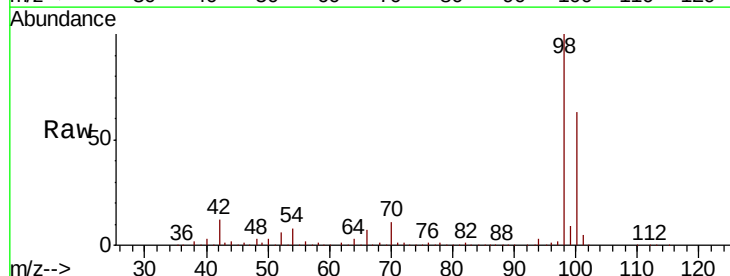


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

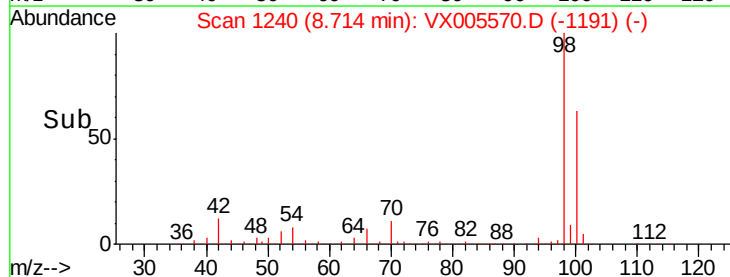
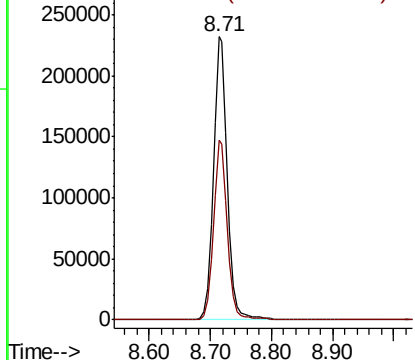


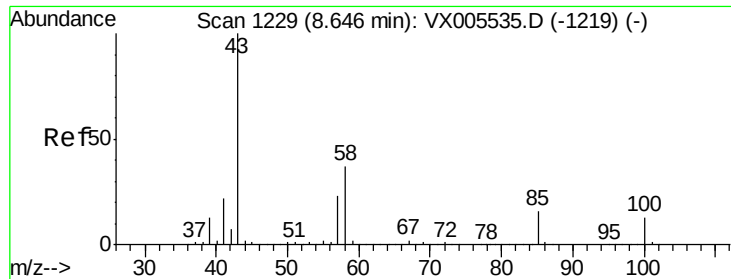
#50
Toluene-d8
Concen: 49.118 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX005570.D
Acq: 25 Oct 2018 04:58

Tgt Ion: 98 Resp: 377839
Ion Ratio Lower Upper
98 100
100 63.3 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.630 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.02 min

Lab File: VX005570.D

Acq: 25 Oct 2018 04:58

Instrument :

MSVOA_X

ClientSampled :

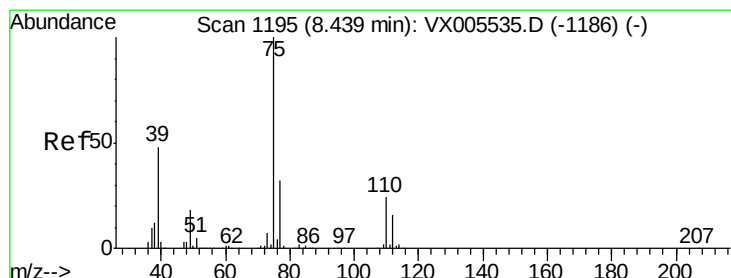
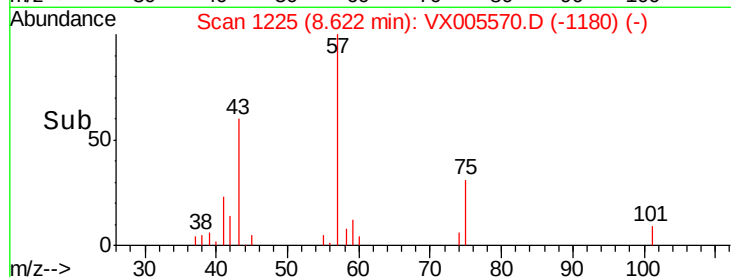
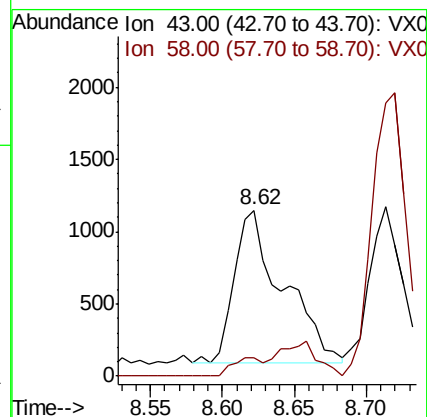
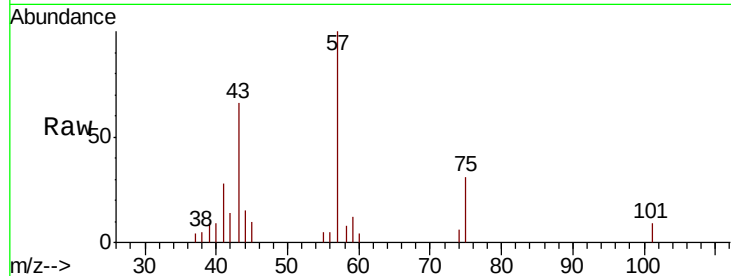
RBR200044

Tot Ion: 43 Resp: 2484

Ion Ratio Lower Upper

43 100

58 7.6 33.1 49.7#



#54

cis-1,3-Dichloropropene

Concen: 0.259 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX005570.D

Acq: 25 Oct 2018 04:58

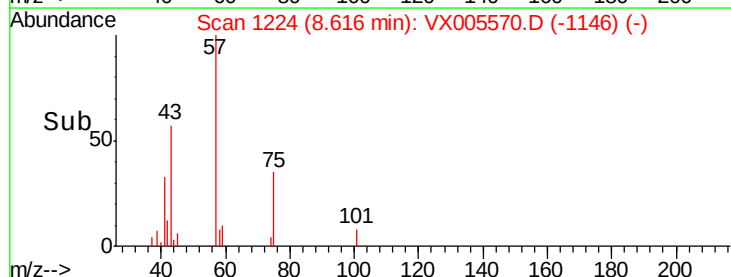
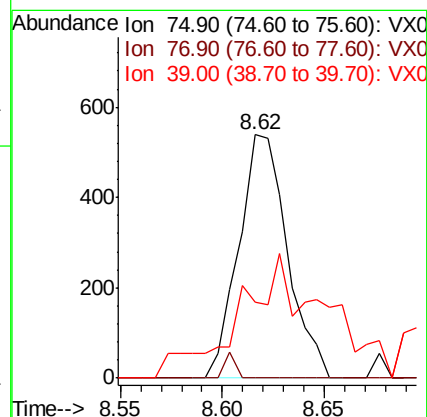
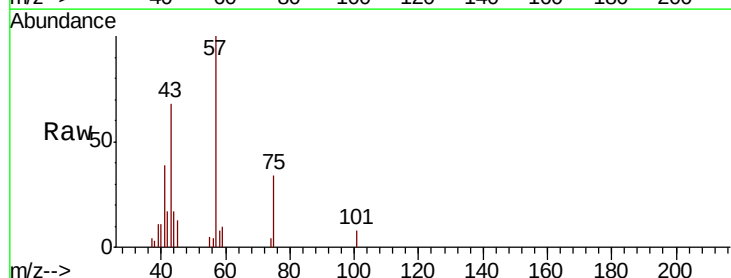
Tgt Ion: 75 Resp: 892

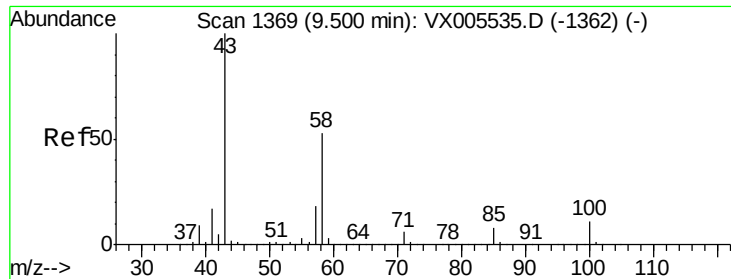
Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#

39 21.3 36.4 54.6#

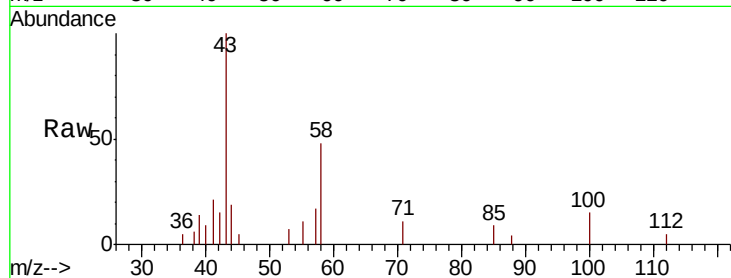




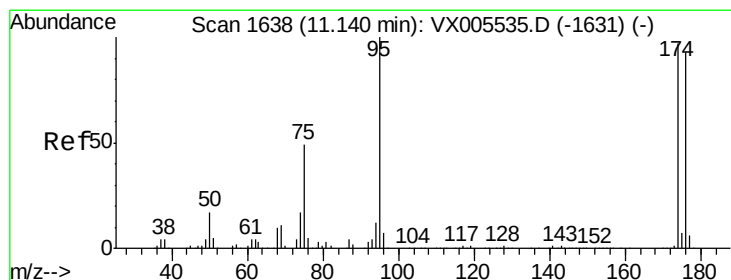
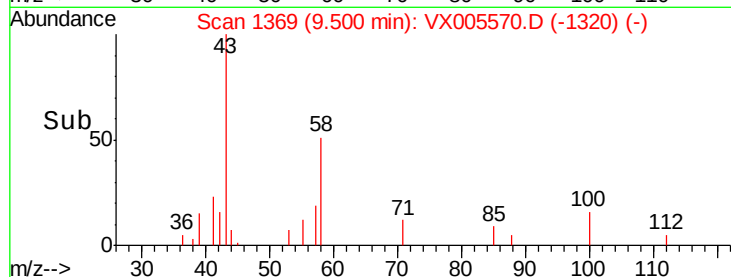
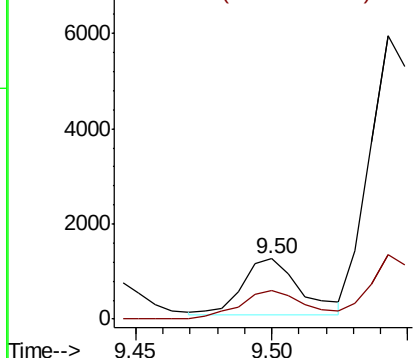
#59
2-Hexanone
Concen: 0.563 ug/l
RT: 9.50 min Scan# 1369
Delta R.T. -0.00 min
Lab File: VX005570.D
Acq: 25 Oct 2018 04:58

Instrument :
MSVOA_X
ClientSampled :
RBR200044

Tot Ion: 43 Resp: 1750
Ion Ratio Lower Upper
43 100
58 58.9 29.0 87.0

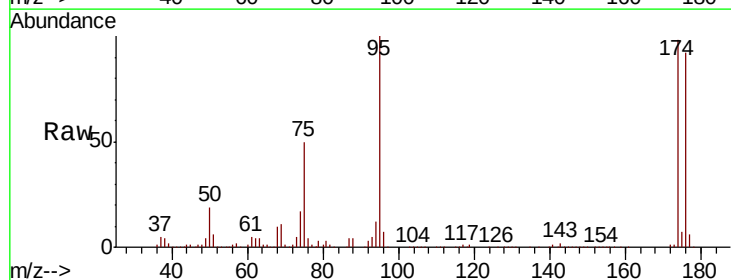


Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

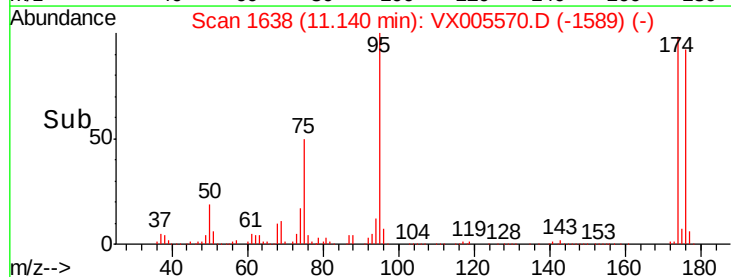
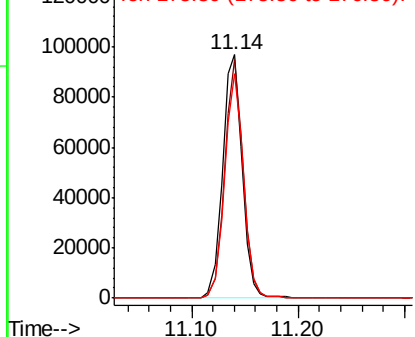


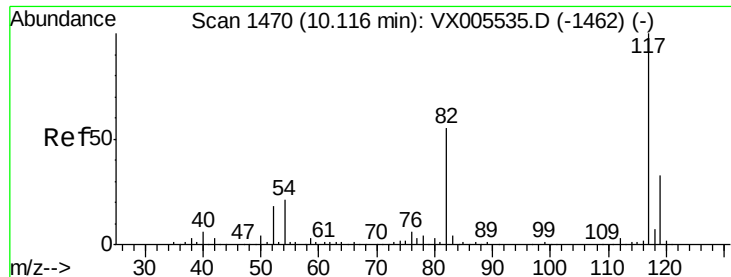
#62
4-Bromofluorobenzene
Concen: 42.733 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005570.D
Acq: 25 Oct 2018 04:58

Tgt Ion: 95 Resp: 124141
Ion Ratio Lower Upper
95 100
174 93.1 0.0 185.2
176 89.3 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX0
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: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005570.D

Acq: 25 Oct 2018 04:58

Instrument :

MSVOA_X

ClientSampled :

RBR200044

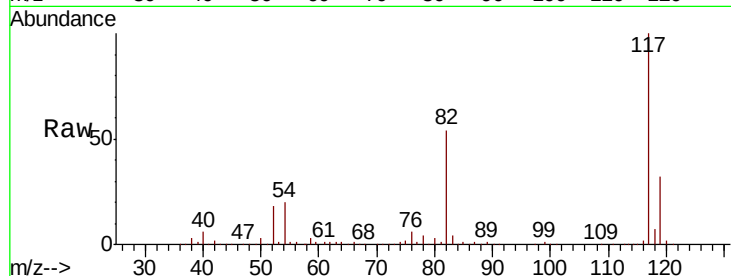
Tot Ion:117 Resp: 285590

Ion Ratio Lower Upper

117 100

82 54.4 47.8 71.6

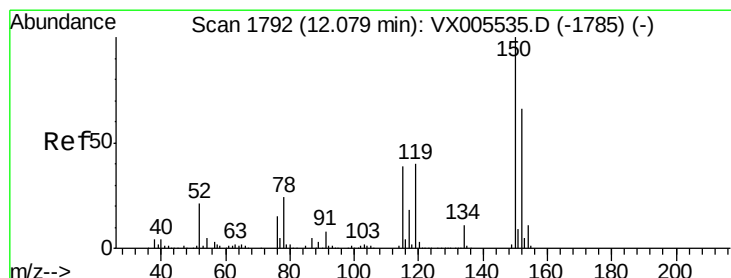
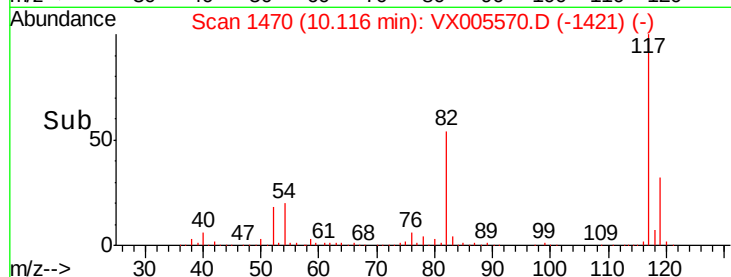
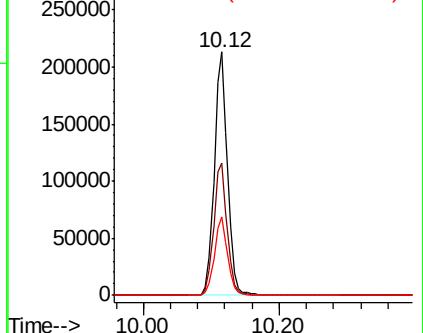
119 32.2 29.3 43.9



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005570.D

Acq: 25 Oct 2018 04:58

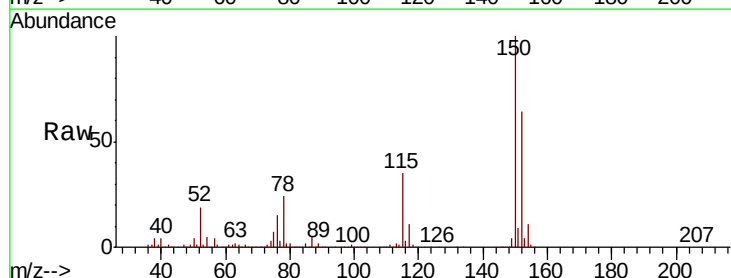
Tgt Ion:152 Resp: 134461

Ion Ratio Lower Upper

152 100

115 55.0 39.0 117.0

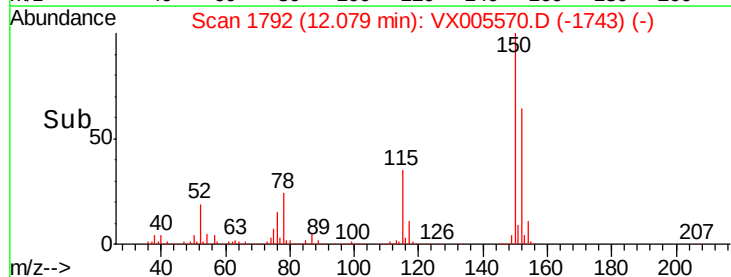
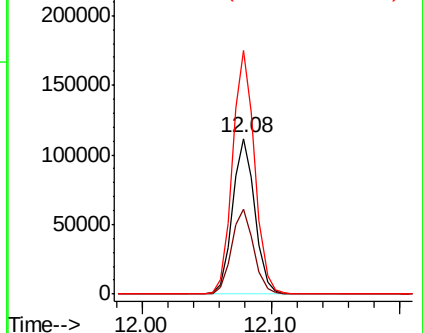
150 156.0 0.0 351.0

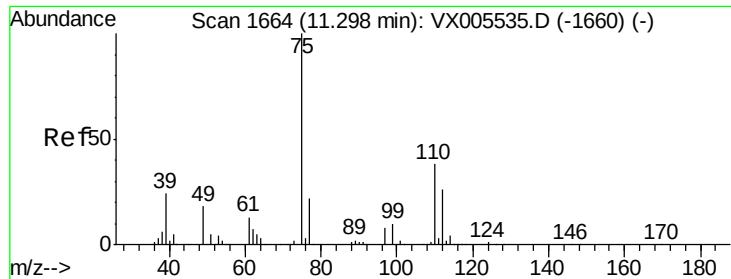


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.931 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005570.D

Acq: 25 Oct 2018 04:58

Instrument :

MSVOA_X

ClientSampled :

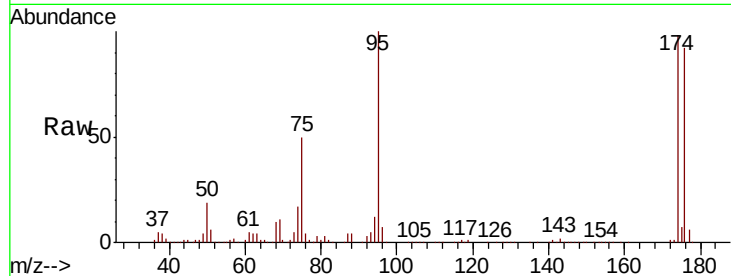
RBR200044

Tot Ion: 75 Resp: 62804

Ion Ratio Lower Upper

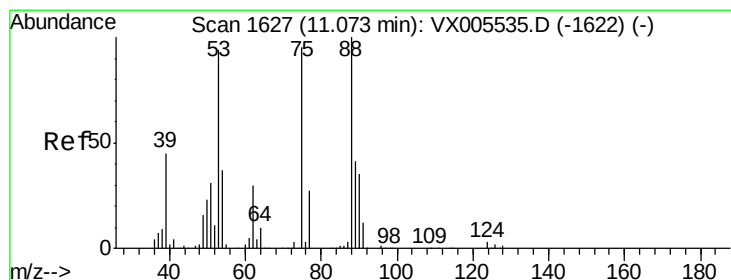
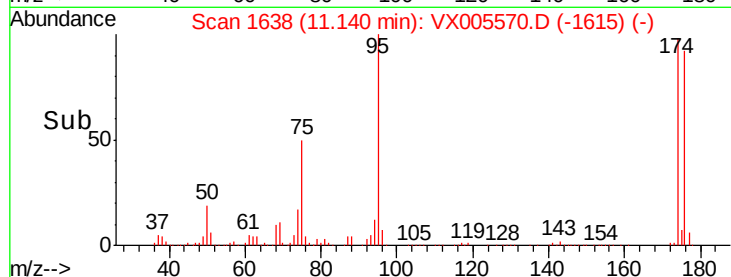
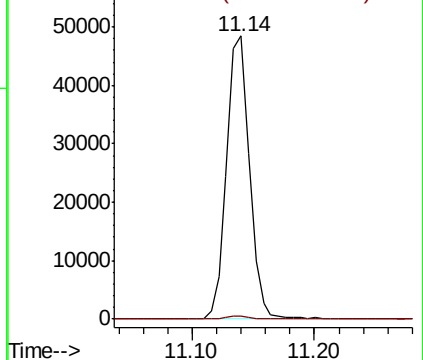
75 100

77 1.3 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 72.032 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005570.D

Acq: 25 Oct 2018 04:58

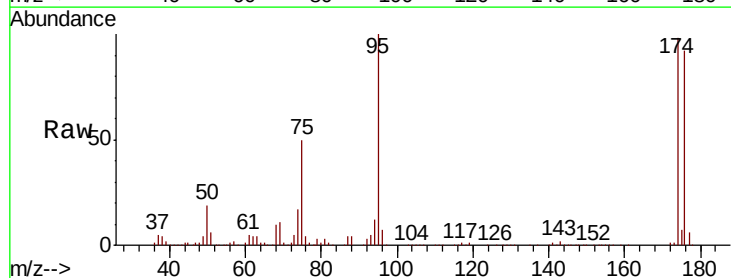
Tgt Ion: 75 Resp: 62804

Ion Ratio Lower Upper

75 100

53 0.4 80.1 120.1#

89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

