

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101518\
 Data File : VX005339.D
 Acq On : 15 Oct 2018 13:15
 Operator : JC/MD
 Sample : J5472-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-2

Quant Time: Oct 16 03:35:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	280738	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	408295	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	349762	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	171833	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	155975	50.06	ug/l	0.00
Spiked Amount			Recovery	=	100.12%	
35) Dibromofluoromethane	5.51	113	129088	47.74	ug/l	0.00
Spiked Amount			Recovery	=	95.48%	
50) Toluene-d8	8.72	98	471196	50.75	ug/l	0.00
Spiked Amount			Recovery	=	101.50%	
62) 4-Bromofluorobenzene	11.14	95	153970	44.15	ug/l	0.00
Spiked Amount			Recovery	=	88.30%	

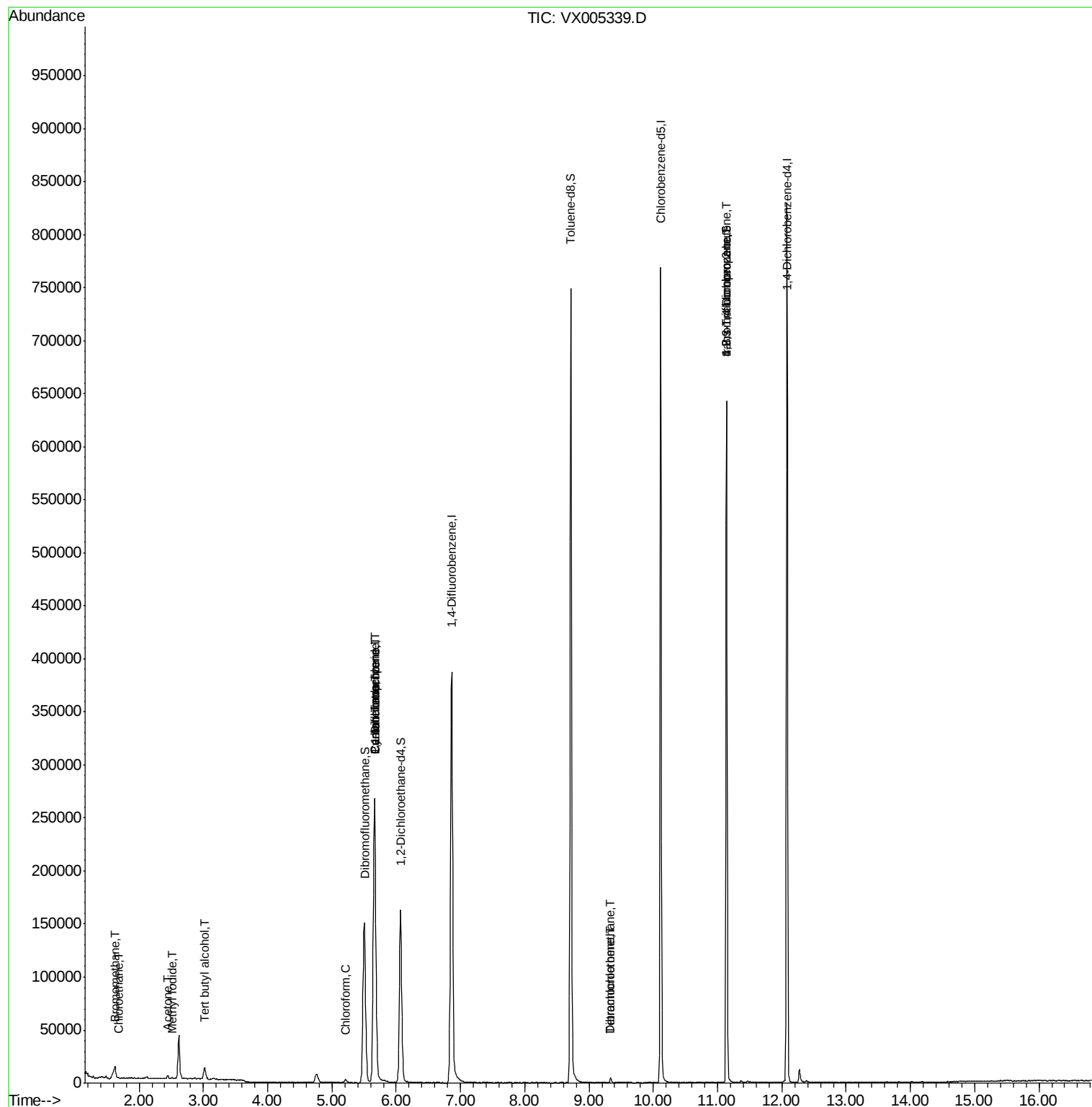
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	505	0.859	ug/l	89
6) Chloroethane	1.69	64	28	0.348	ug/l #	44
10) Methyl Iodide	2.51	142	204	2.560	ug/l #	18
11) Tert butyl alcohol	3.02	59	7131	8.113	ug/l #	77
13) Acrolein	2.30	56	106	Below Cal	#	16
16) Acetone	2.45	43	3188	1.770	ug/l	98
20) Methylene Chloride	2.87	84	301	Below Cal	#	69
30) Chloroform	5.21	83	2971	0.616	ug/l	96
31) Cyclohexane	5.66	56	5049	1.179	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	18588	4.701	ug/l #	49
38) Carbon Tetrachloride	5.66	117	24982	6.288	ug/l #	15
44) Trichloroethene	7.22	130	126	Below Cal		43
60) Dibromochloromethane	9.34	129	871	0.307	ug/l #	11
64) Tetrachloroethene	9.34	164	1070	0.380	ug/l #	69
76) 1,2,3-Trichloropropane	11.14	75	76393	22.920	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	76393	69.641	ug/l #	10

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX005339.D

Acq: 15 Oct 2018 13:15

Instrument :

MSVOA_X

ClientSampleId :

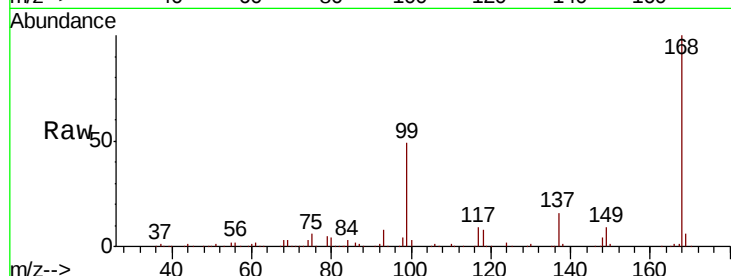
MW-2

Tot Ion:168 Resp: 280738

Ion Ratio Lower Upper

168 100

99 49.4 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

60000

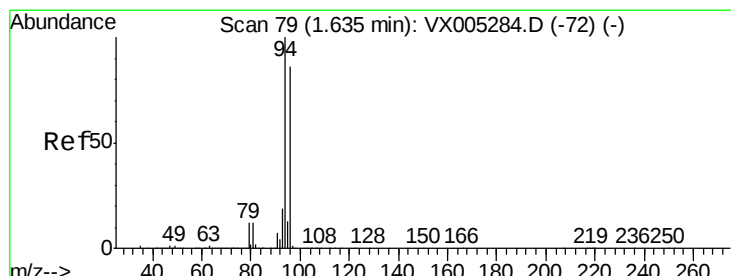
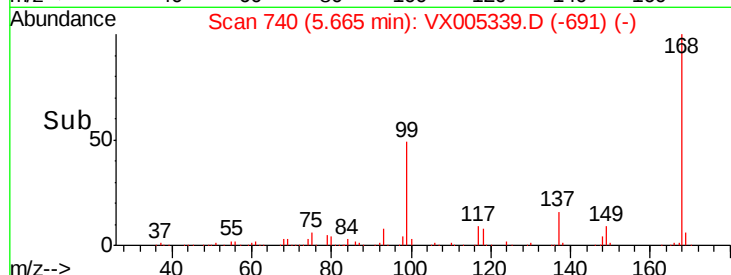
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#5

Bromomethane

Concen: 0.859 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX005339.D

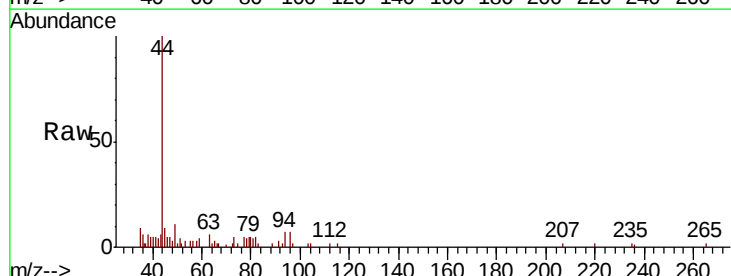
Acq: 15 Oct 2018 13:15

Tgt Ion: 94 Resp: 505

Ion Ratio Lower Upper

94 100

96 103.2 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

300

250

200

150

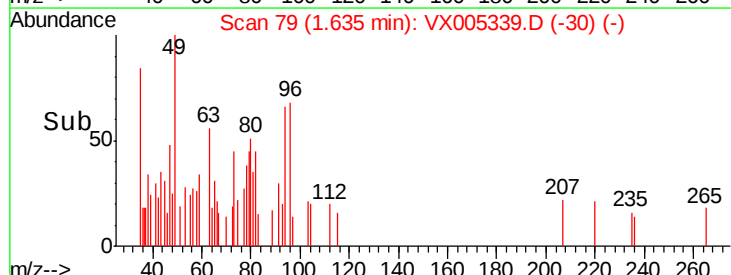
100

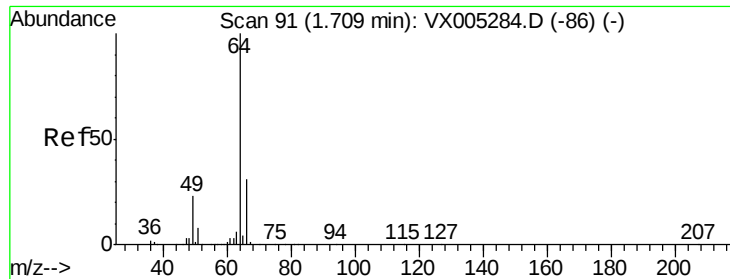
50

0

Time-->

1.60 1.65





#6

Chloroethane

Concen: 0.348 ug/l

RT: 1.69 min Scan# 88

Delta R.T. -0.02 min

Lab File: VX005339.D

Acq: 15 Oct 2018 13:15

Instrument :

MSVOA_X

ClientSampleId :

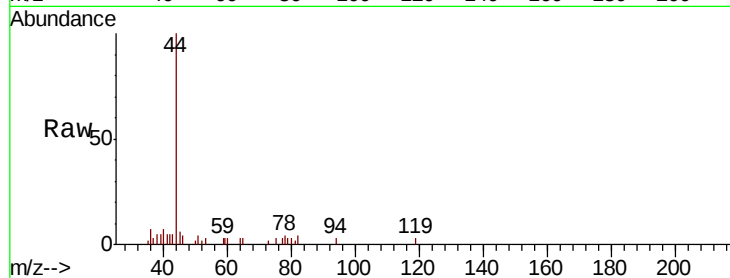
MW-2

Tot Ion: 64 Resp: 28

Ion Ratio Lower Upper

64 100

66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.69

80

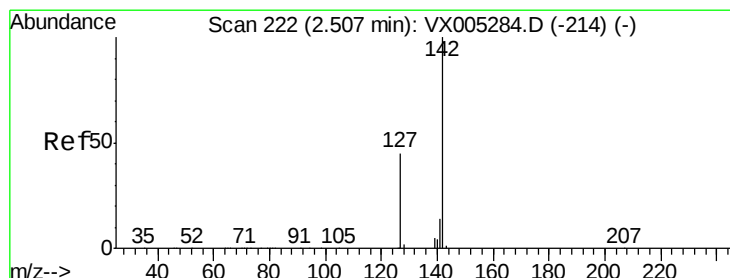
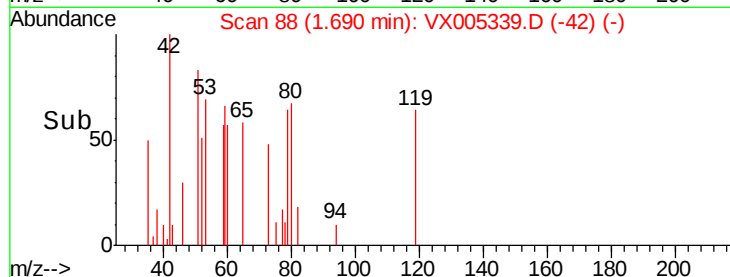
60

40

20

0

Time--> 1.67 1.68 1.69 1.70



#10

Methyl Iodide

Concen: 2.560 ug/l

RT: 2.51 min Scan# 222

Delta R.T. -0.00 min

Lab File: VX005339.D

Acq: 15 Oct 2018 13:15

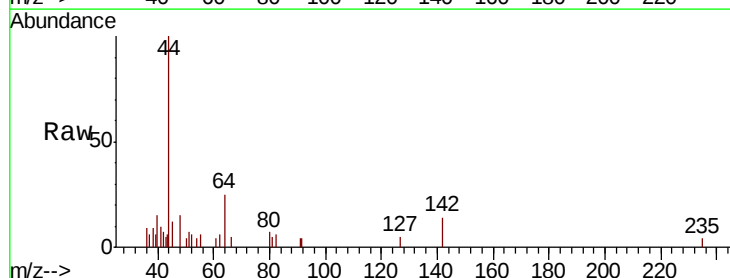
Tgt Ion: 142 Resp: 204

Ion Ratio Lower Upper

142 100

127 103.9 33.8 50.6#

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

2.51

300

250

200

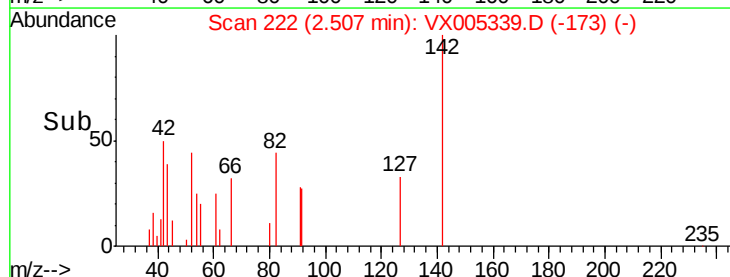
150

100

50

0

Time--> 2.48 2.50 2.52



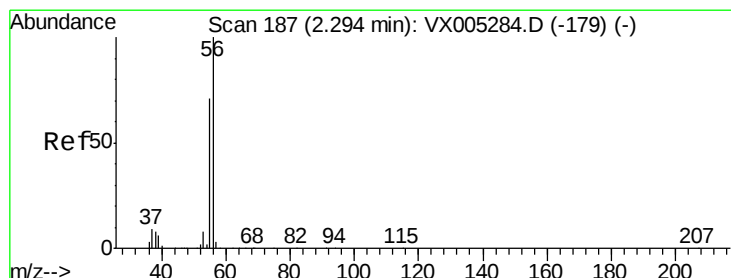
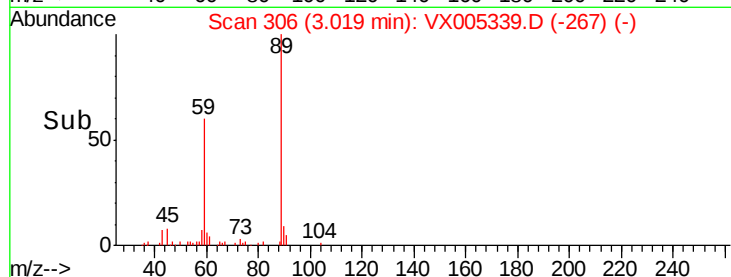
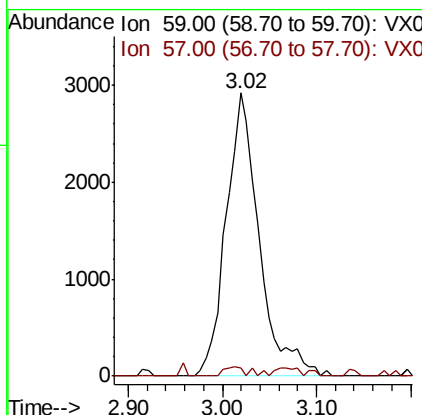
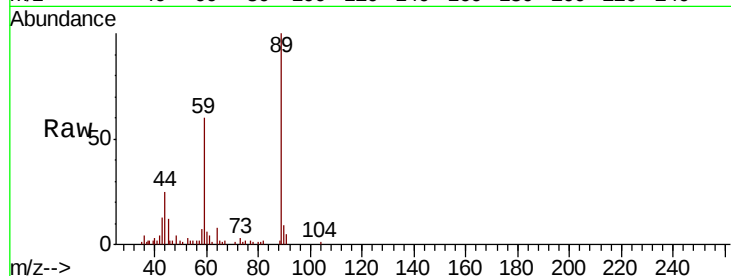


#11

Tert butyl alcohol
Concen: 8.113 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005339.D
Acq: 15 Oct 2018 13:15

Instrument :
MSVOA_X
ClientSampled :
MW-2

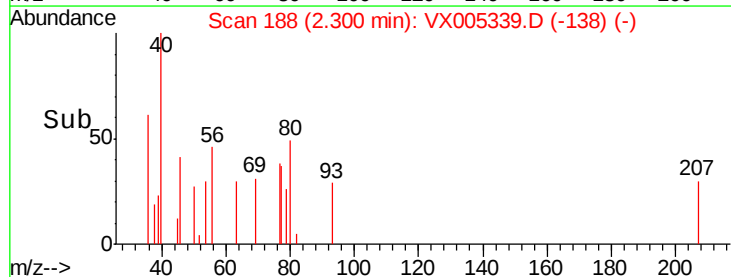
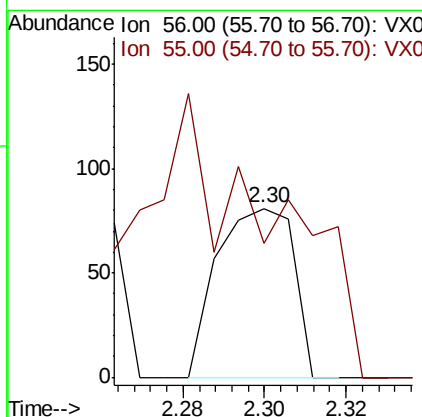
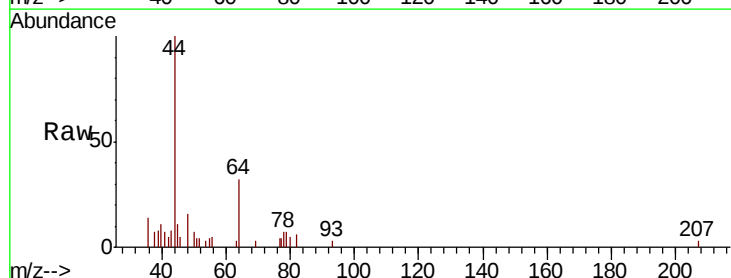
Tot Ion: 59 Resp: 7131
Ion Ratio Lower Upper
59 100
57 1.6 8.2 12.4#

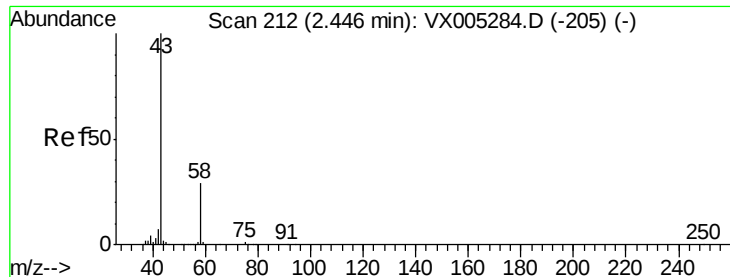


#13

Acrolein
Concen: Below Cal
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX005339.D
Acq: 15 Oct 2018 13:15

Tgt Ion: 56 Resp: 106
Ion Ratio Lower Upper
56 100
55 0.0 54.7 82.1#





#16

Acetone

Concen: 1.770 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005339.D

Acq: 15 Oct 2018 13:15

Instrument :

MSVOA_X

ClientSampleId :

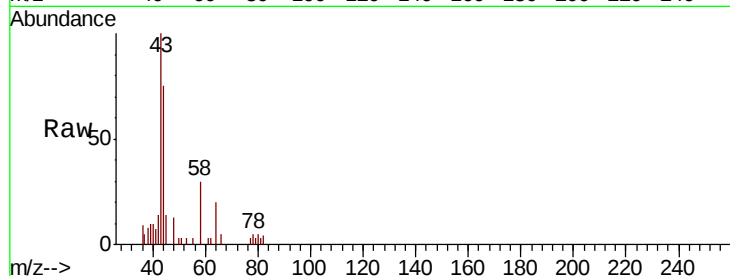
MW-2

Tot Ion: 43 Resp: 3188

Ion Ratio Lower Upper

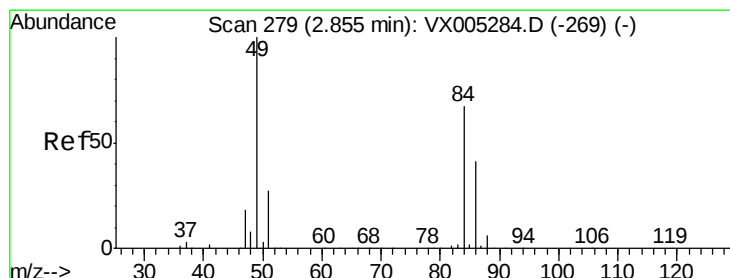
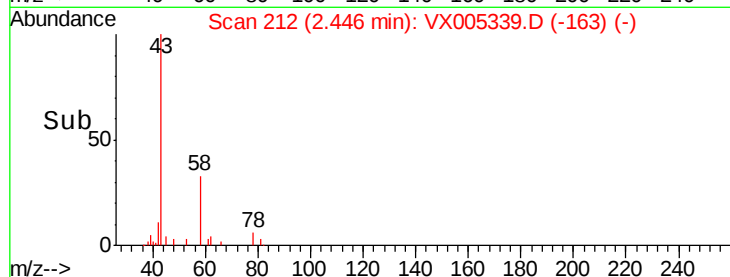
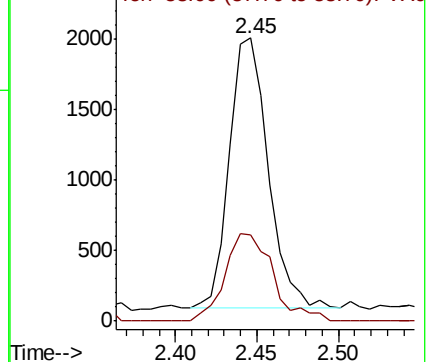
43 100

58 31.8 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.87 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX005339.D

Acq: 15 Oct 2018 13:15

Tgt Ion: 84 Resp: 301

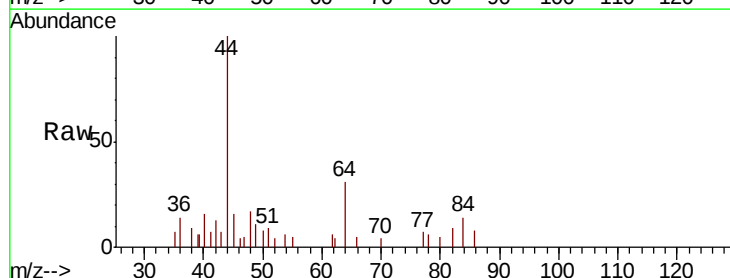
Ion Ratio Lower Upper

84 100

49 80.1 101.2 151.8#

51 60.8 29.5 44.3#

86 59.7 52.3 78.5

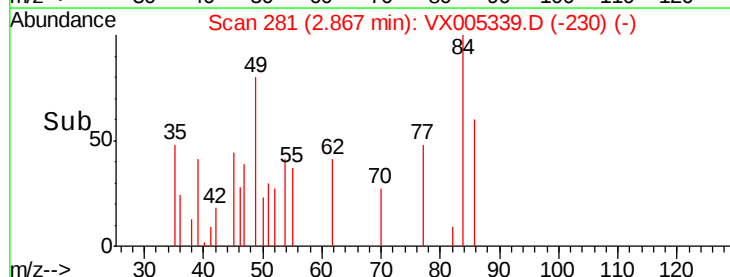
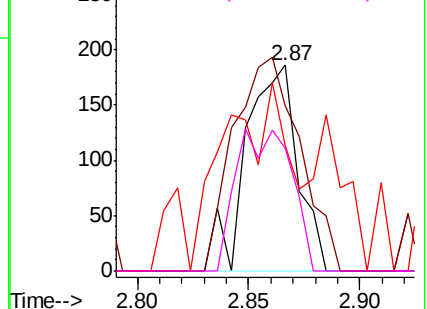


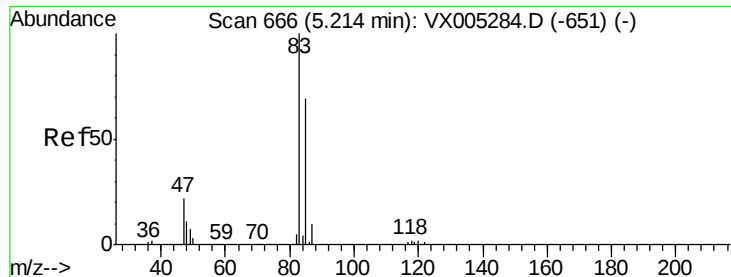
Abundance Ion 83.90 (83.60 to 84.60): VX0

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

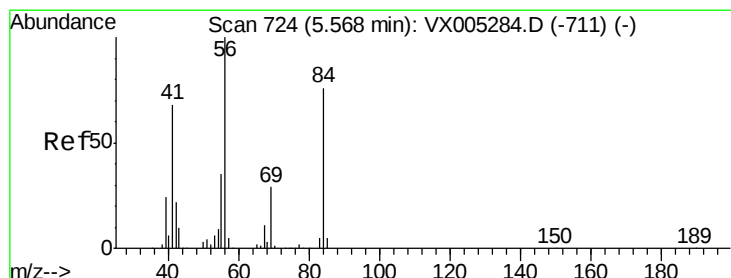
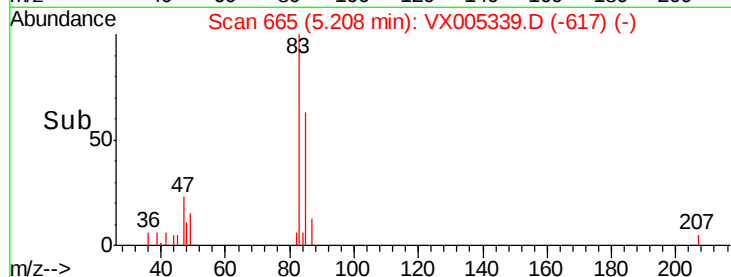
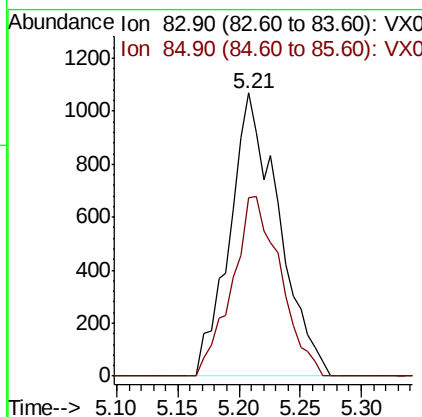
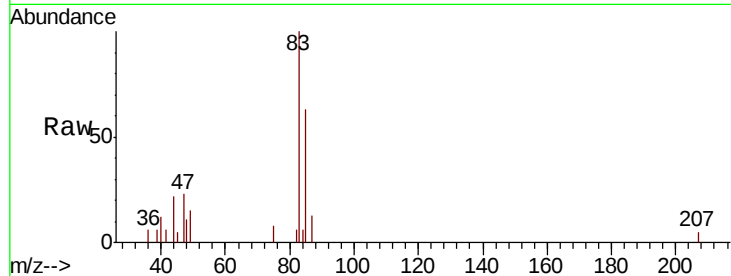




#30
Chloroform
Concen: 0.616 ug/l
RT: 5.21 min Scan# 665
Delta R.T. -0.01 min
Lab File: VX005339.D
Acq: 15 Oct 2018 13:15

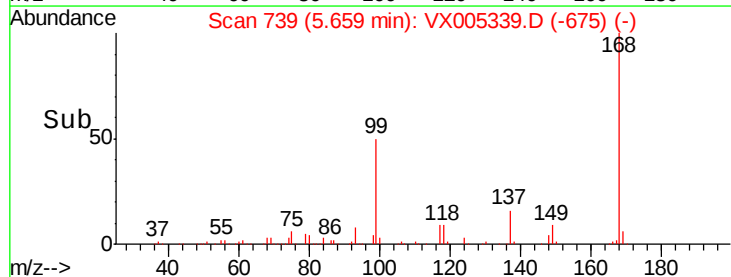
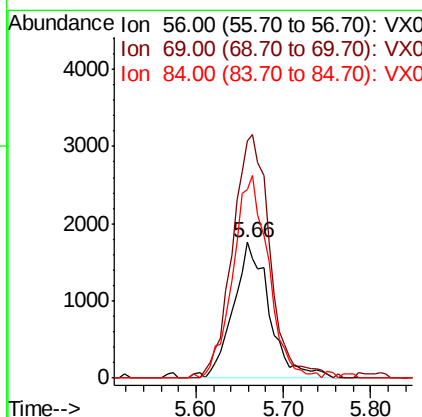
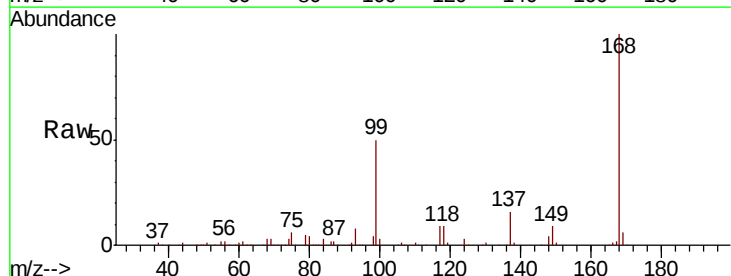
Instrument :
MSVOA_X
ClientSampleId :
MW-2

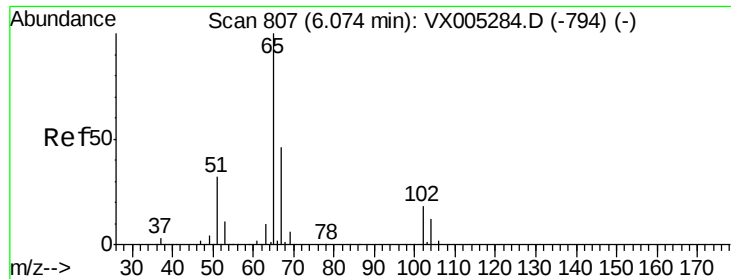
Tot Ion: 83 Resp: 2971
Ion Ratio Lower Upper
83 100
85 62.9 52.6 79.0



#31
Cyclohexane
Concen: 1.179 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX005339.D
Acq: 15 Oct 2018 13:15

Tgt Ion: 56 Resp: 5049
Ion Ratio Lower Upper
56 100
69 175.3 25.4 38.2#
84 139.4 71.4 107.2#





#33

1,2-Dichloroethane-d4

Concen: 50.060 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.01 min

Lab File: VX005339.D

Acq: 15 Oct 2018 13:15

Instrument :

MSVOA_X

ClientSampleId :

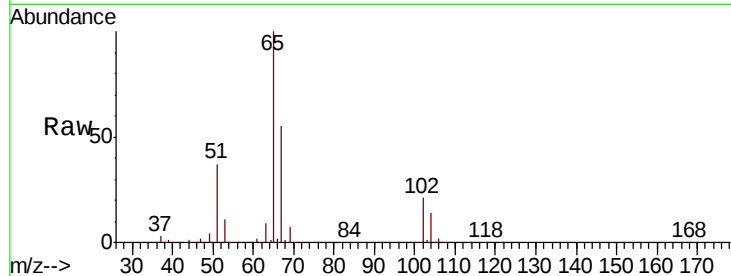
MW-2

Tot Ion: 65 Resp: 155975

Ion Ratio Lower Upper

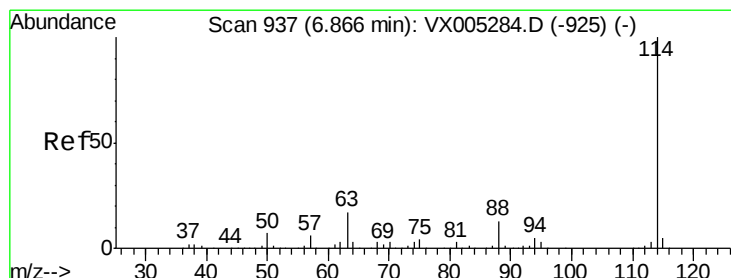
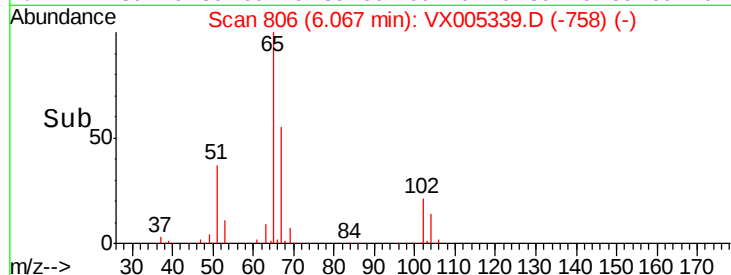
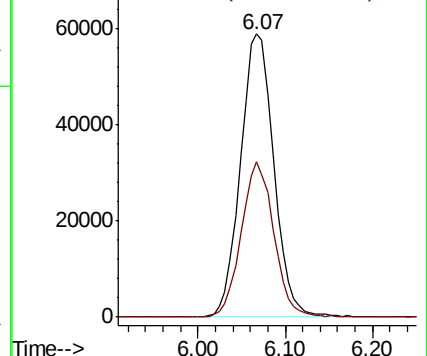
65 100

67 53.7 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.87 min Scan# 937

Delta R.T. -0.00 min

Lab File: VX005339.D

Acq: 15 Oct 2018 13:15

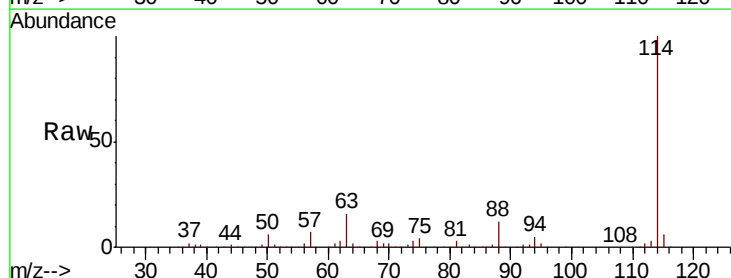
Tgt Ion: 114 Resp: 408295

Ion Ratio Lower Upper

114 100

63 16.1 0.0 39.0

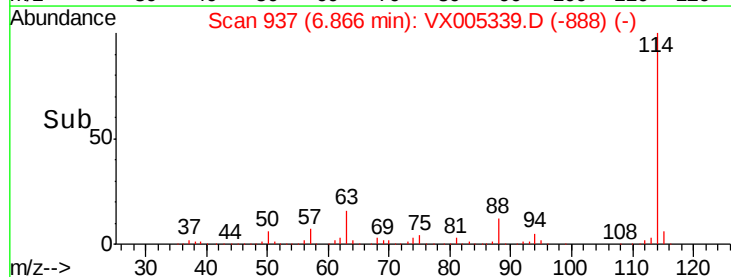
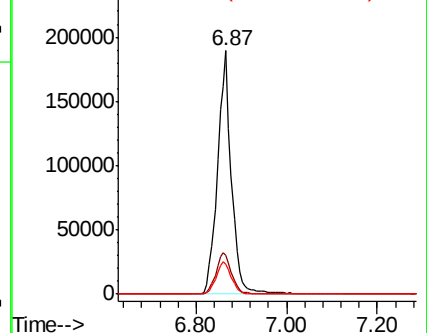
88 12.2 0.0 30.4

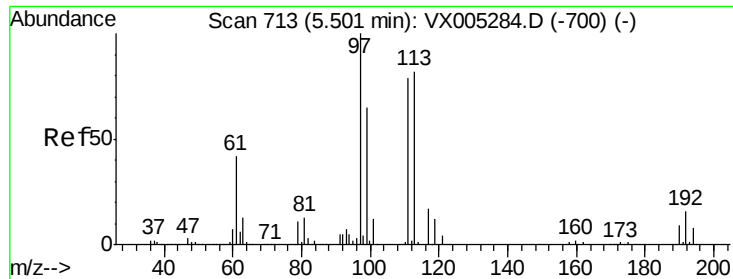


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

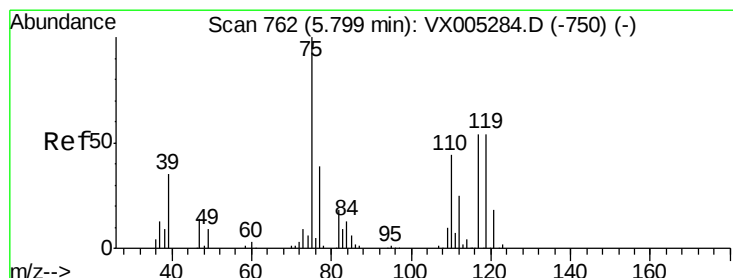
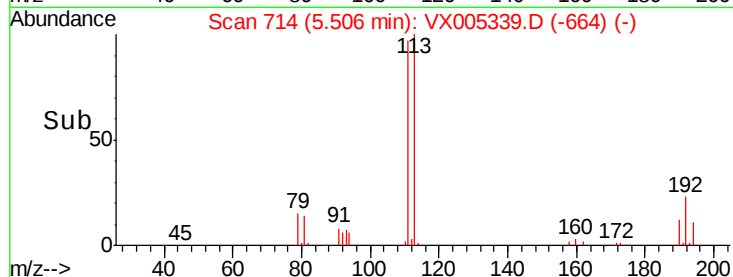
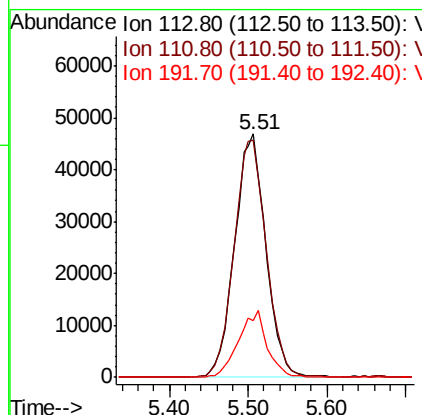
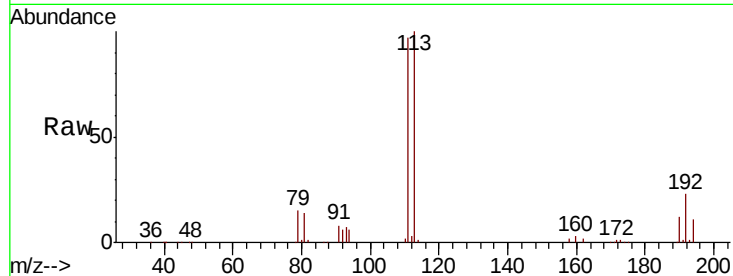




#35
 Dibromofluoromethane
 Concen: 47.735 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX005339.D
 Acq: 15 Oct 2018 13:15

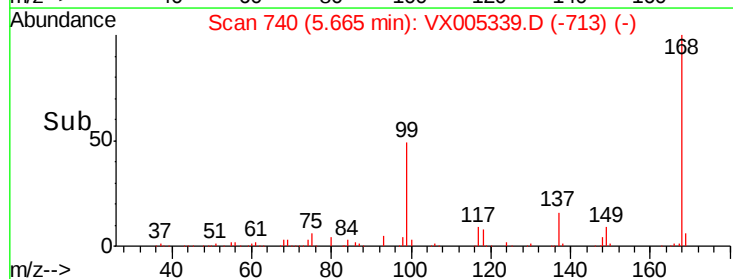
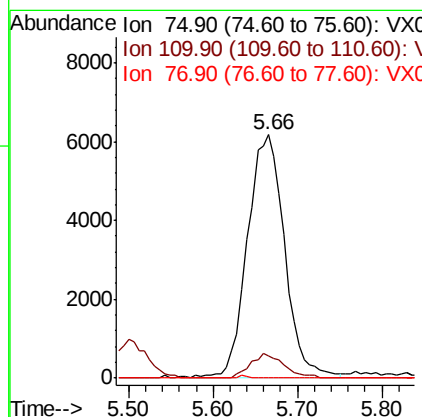
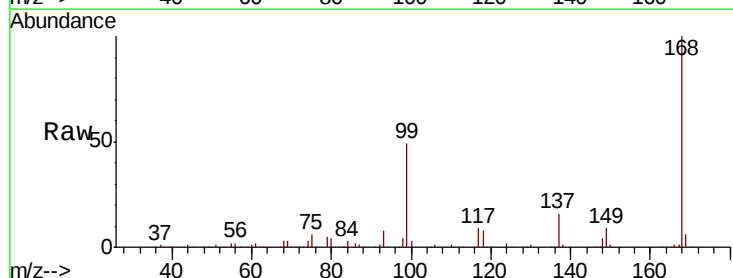
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-2

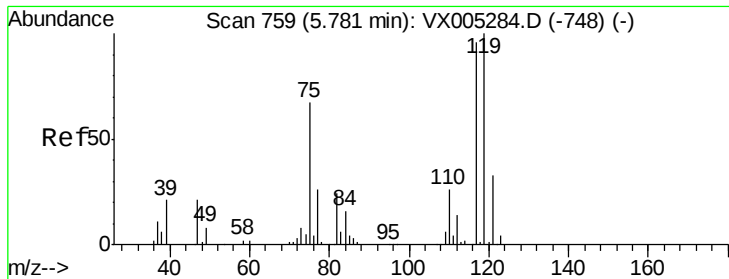
Tot Ion:113 Resp: 129088
 Ion Ratio Lower Upper
 113 100
 111 100.6 82.4 123.6
 192 25.1 19.4 29.2



#36
 1,1-Dichloropropene
 Concen: 4.701 ug/l
 RT: 5.66 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005339.D
 Acq: 15 Oct 2018 13:15

Tgt Ion: 75 Resp: 18588
 Ion Ratio Lower Upper
 75 100
 110 9.1 18.0 54.0#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 6.288 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005339.D

Acq: 15 Oct 2018 13:15

Instrument :

MSVOA_X

ClientSampleId :

MW-2

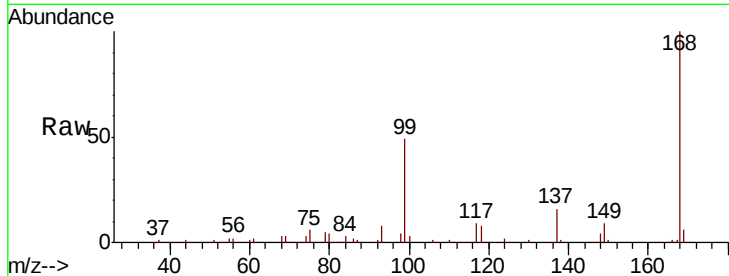
Tot Ion:117 Resp: 24982

Ion Ratio Lower Upper

117 100

119 5.1 78.8 118.2#

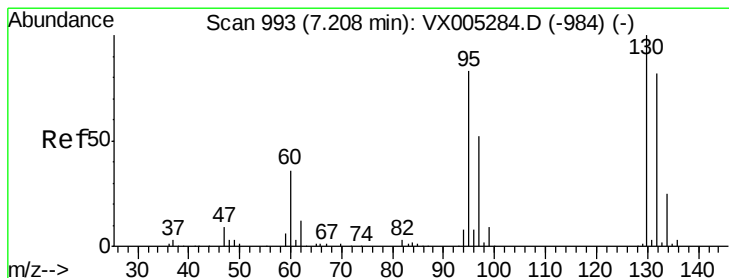
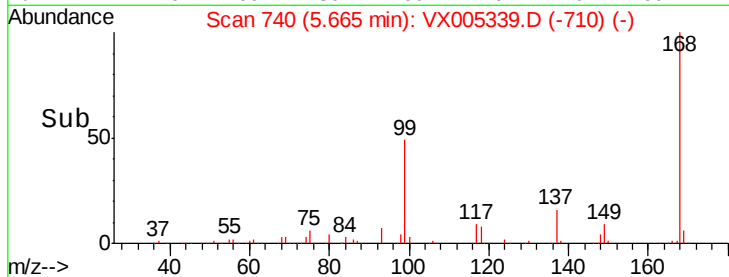
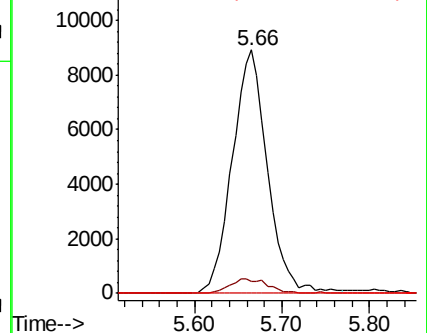
121 0.0 24.9 37.3#



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



#44

Trichloroethene

Concen: Below Cal

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX005339.D

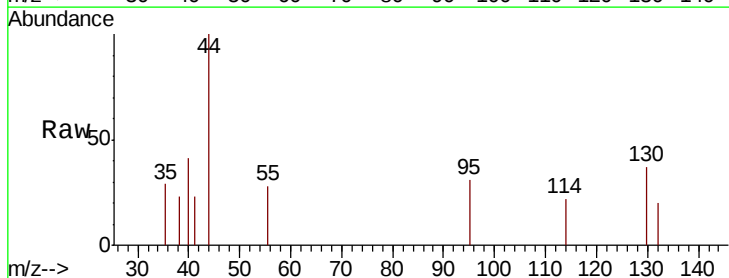
Acq: 15 Oct 2018 13:15

Tgt Ion:130 Resp: 126

Ion Ratio Lower Upper

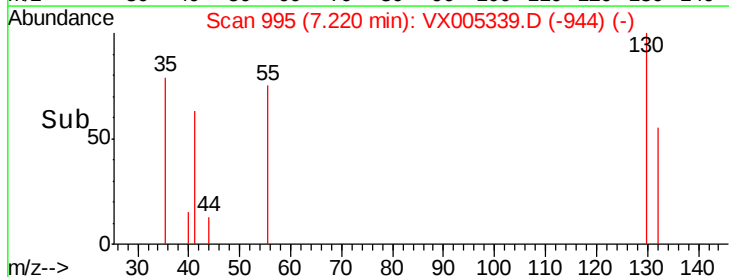
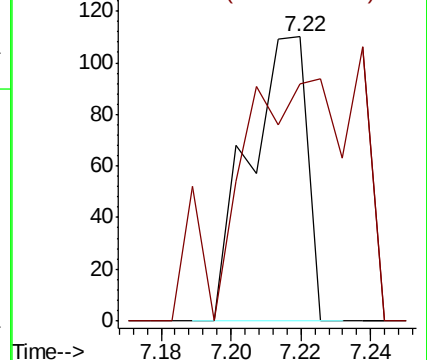
130 100

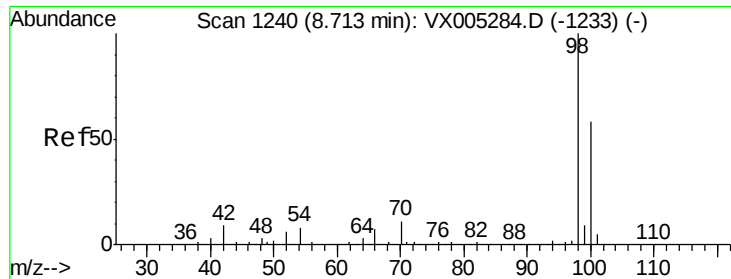
95 36.4 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 50.754 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.01 min

Lab File: VX005339.D

Acq: 15 Oct 2018 13:15

Instrument :

MSVOA_X

ClientSampleId :

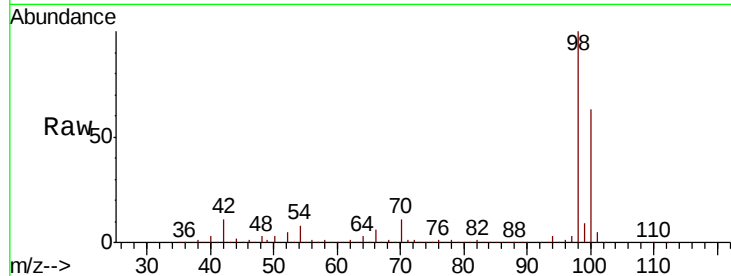
MW-2

Tot Ion: 98 Resp: 471196

Ion Ratio Lower Upper

98 100

100 63.1 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX005339.D (-1191) (-)

Ion 100.00 (99.70 to 100.70): VX005339.D (-1191) (-)

8.72

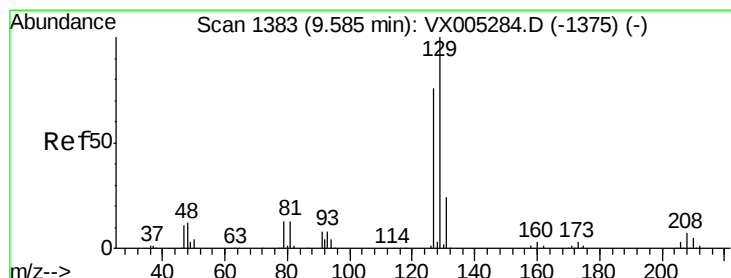
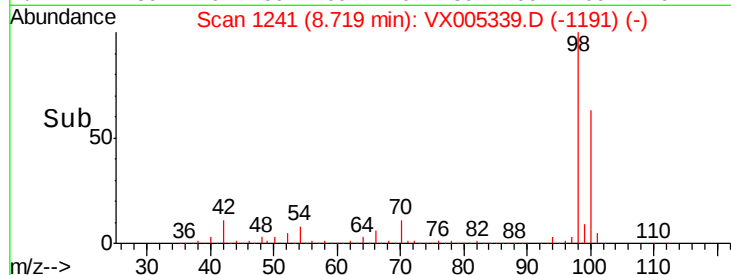
300000

200000

100000

0

Time-->



#60

Dibromochloromethane

Concen: 0.307 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.25 min

Lab File: VX005339.D

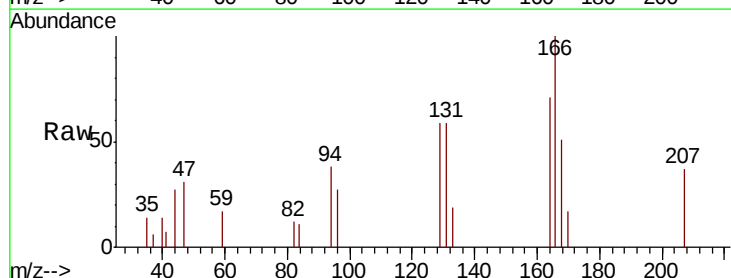
Acq: 15 Oct 2018 13:15

Tgt Ion: 129 Resp: 871

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.5#



Abundance Ion 128.80 (128.50 to 129.50): VX005339.D (-1334) (-)

Ion 126.80 (126.50 to 127.50): VX005339.D (-1334) (-)

600

500

400

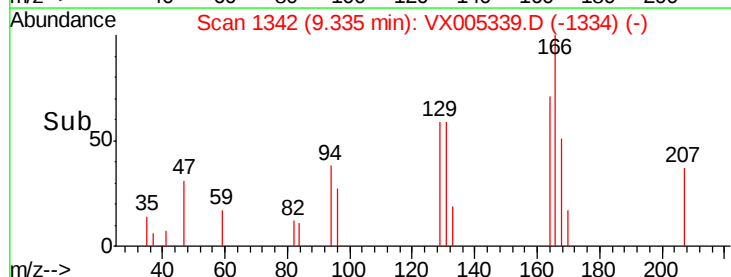
300

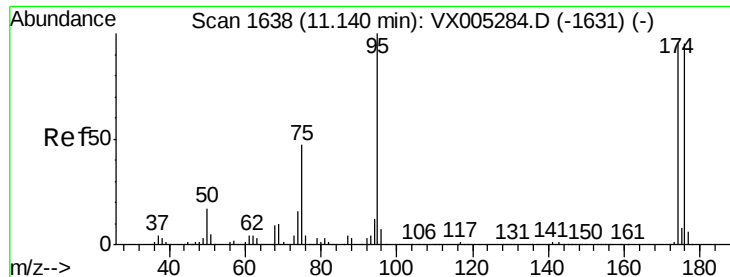
200

100

0

Time-->

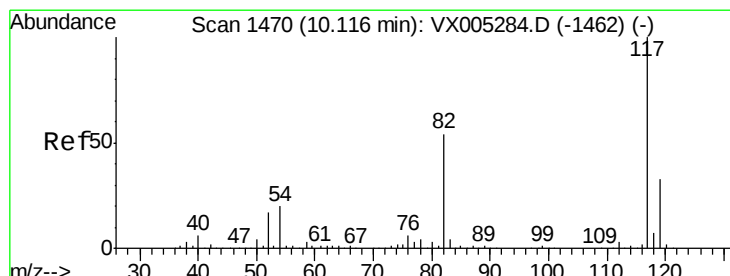
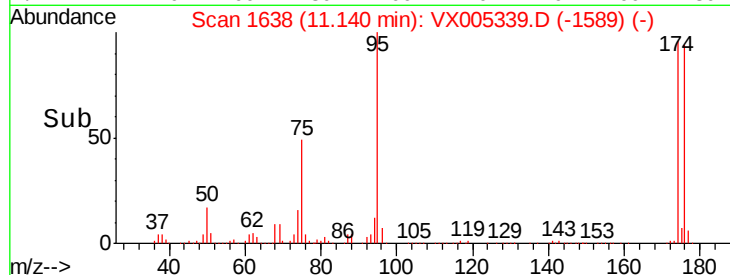
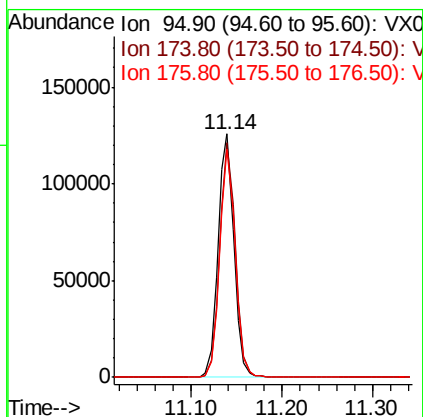
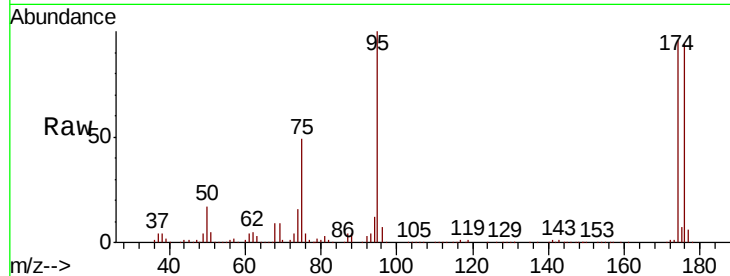




#62
4-Bromofluorobenzene
Concen: 44.148 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005339.D
Acq: 15 Oct 2018 13:15

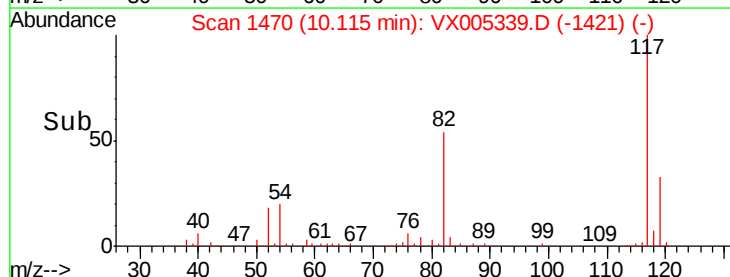
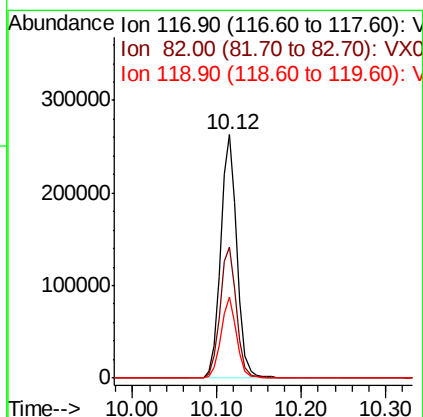
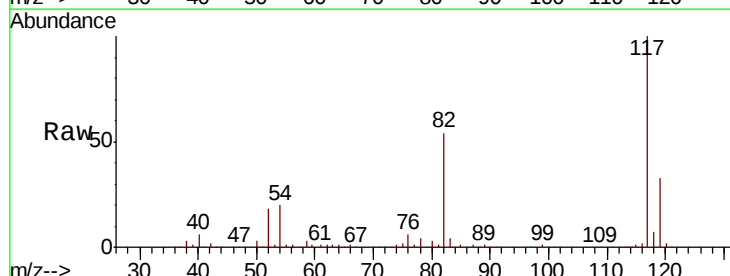
Instrument :
MSVOA_X
ClientSampleId :
MW-2

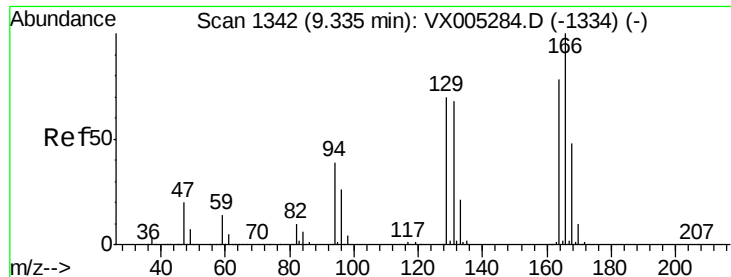
Tot Ion: 95 Resp: 153970
Ion Ratio Lower Upper
95 100
174 95.6 0.0 185.2
176 92.1 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005339.D
Acq: 15 Oct 2018 13:15

Tgt Ion: 117 Resp: 349762
Ion Ratio Lower Upper
117 100
82 53.9 47.8 71.6
119 33.1 29.3 43.9





#64

Tetrachloroethene

Concen: 0.380 ug/l

RT: 9.34 min Scan# 1343

Delta R.T. 0.01 min

Lab File: VX005339.D

Acq: 15 Oct 2018 13:15

Instrument :

MSVOA_X

ClientSampled :

MW-2

Tot Ion:164 Resp: 1070

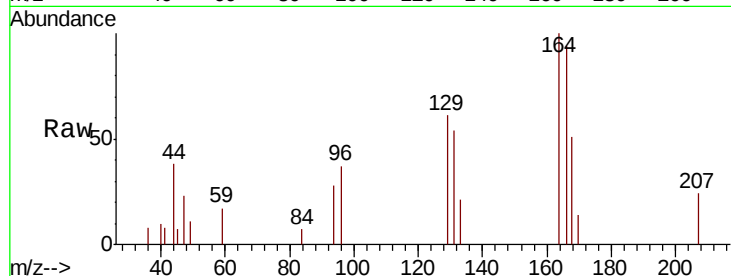
Ion Ratio Lower Upper

164 100

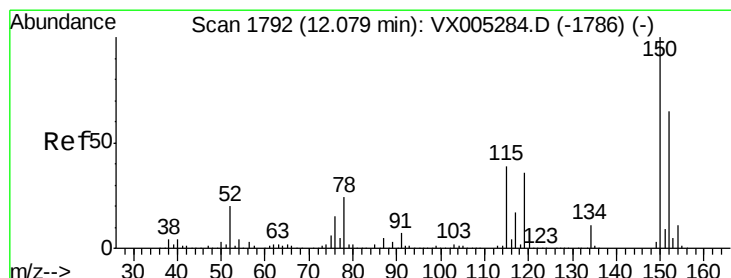
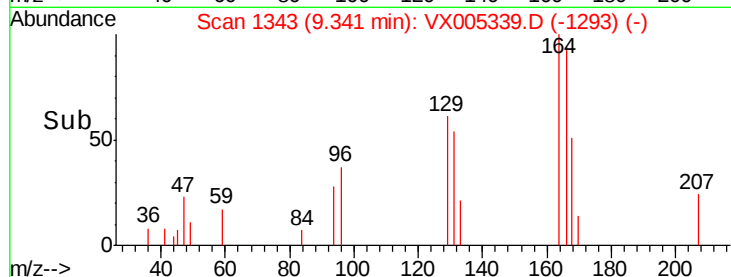
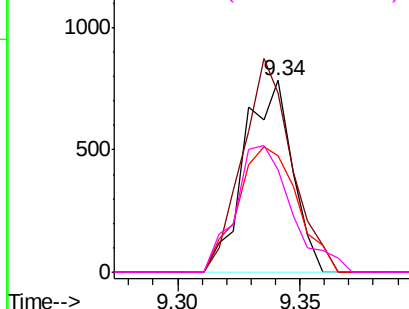
166 93.9 102.8 154.2#

129 60.7 69.4 104.0#

131 53.6 67.9 101.9#



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): 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: VX005339.D

Acq: 15 Oct 2018 13:15

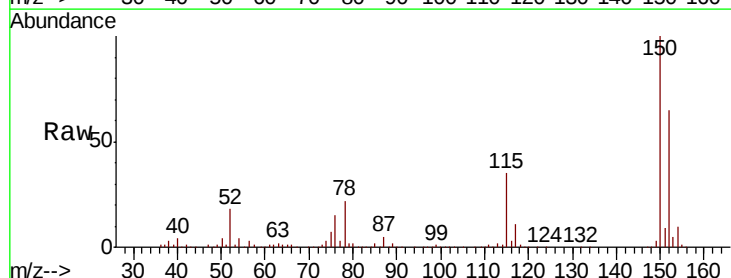
Tgt Ion:152 Resp: 171833

Ion Ratio Lower Upper

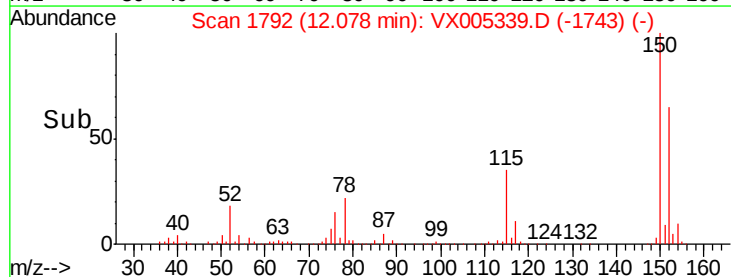
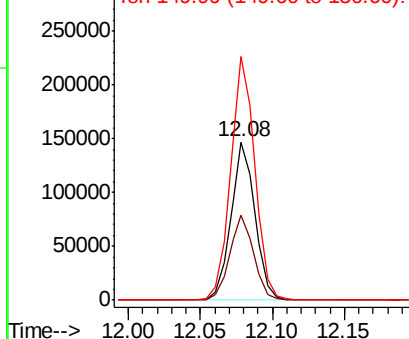
152 100

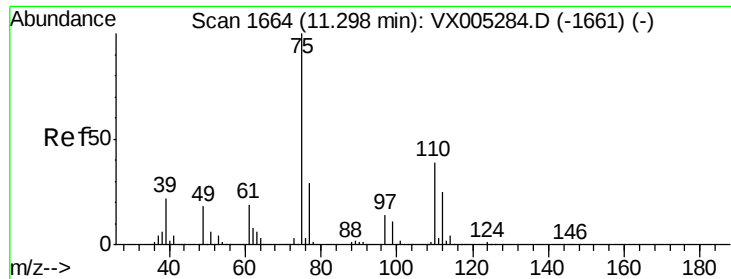
115 53.7 39.0 117.0

150 155.8 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: 22.920 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005339.D

Acq: 15 Oct 2018 13:15

Instrument :

MSVOA_X

ClientSampleId :

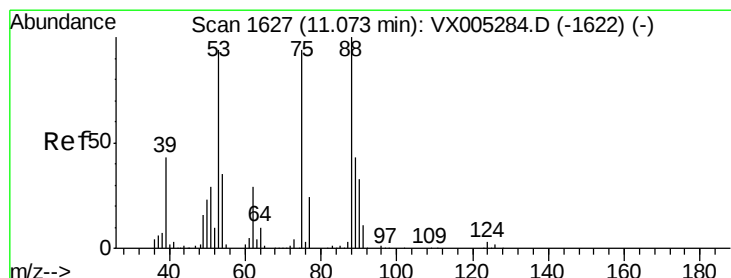
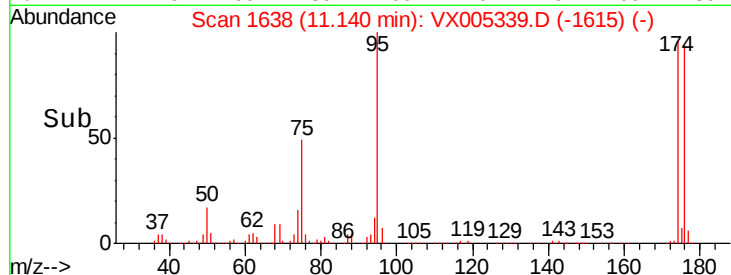
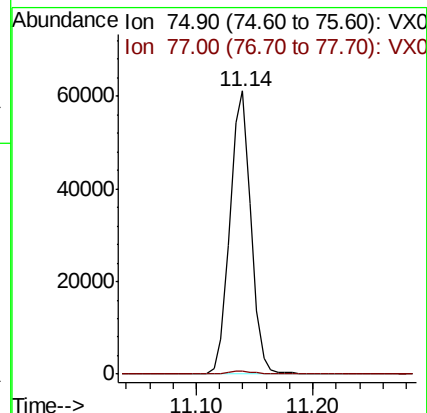
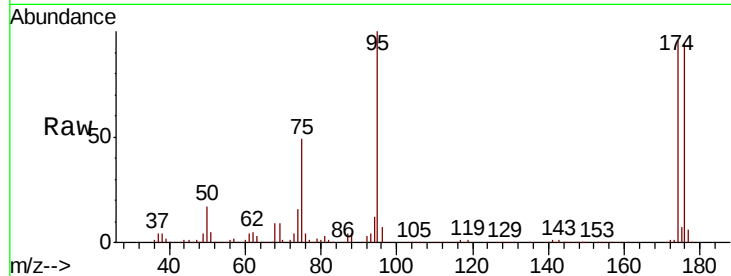
MW-2

Tot Ion: 75 Resp: 76393

Ion Ratio Lower Upper

75 100

77 1.4 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 69.641 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005339.D

Acq: 15 Oct 2018 13:15

Tgt Ion: 75 Resp: 76393

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#

