

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091018\
 Data File : VX004461.D
 Acq On : 10 Sep 2018 20:48
 Operator : JC/MD
 Sample : J4769-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 HR-05-090718-B

Quant Time: Sep 11 01:24:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	295149	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	489375	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	454936	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	270583	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	209922	54.57	ug/l	0.00
Spiked Amount			Recovery	=	109.14%	
35) Dibromofluoromethane	5.50	113	186481	51.22	ug/l	0.00
Spiked Amount			Recovery	=	102.44%	
50) Toluene-d8	8.71	98	707380	51.48	ug/l	0.00
Spiked Amount			Recovery	=	102.96%	
62) 4-Bromofluorobenzene	11.14	95	252996	49.34	ug/l	0.00
Spiked Amount			Recovery	=	98.68%	

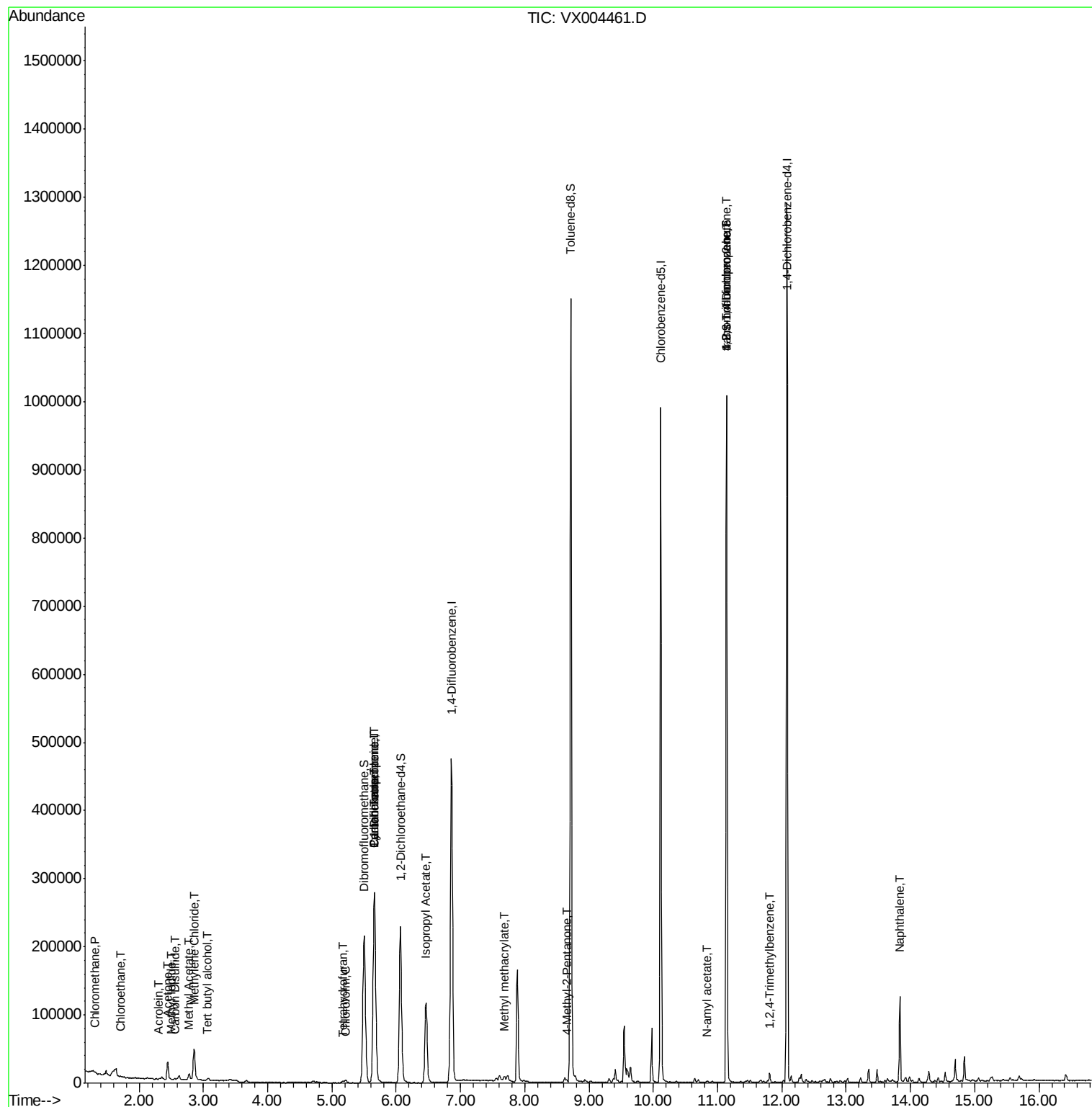
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	621	0.45	ug/l	# 60
5) Bromomethane	1.64	94	355	Below Cal		# 64
6) Chloroethane	1.70	64	38	0.98	ug/l	# 44
10) Methyl Iodide	2.51	142	53	4.28	ug/l	# 41
11) Tert butyl alcohol	3.07	59	4126	5.03	ug/l	# 92
13) Acrolein	2.29	56	445	2.25	ug/l	# 82
16) Acetone	2.45	43	27851	9.98	ug/l	# 97
17) Carbon Disulfide	2.56	76	448	0.85	ug/l	# 81
18) Methyl Acetate	2.78	43	10590	1.86	ug/l	# 98
20) Methylene Chloride	2.85	84	22371	6.04	ug/l	# 97
25) 2-Butanone	4.71	43	4912	Below Cal		100
29) Tetrahydrofuran	5.17	42	1460	0.88	ug/l	# 94
30) Chloroform	5.22	83	3655	0.58	ug/l	# 82
31) Cyclohexane	5.66	56	4906	0.91	ug/l	# 1
36) 1,1-Dichloropropene	5.66	75	18747	3.41	ug/l	# 50
38) Carbon Tetrachloride	5.66	117	25561	4.94	ug/l	# 17
43) Isopropyl Acetate	6.46	43	152787	18.38	ug/l	# 99
48) Methyl methacrylate	7.69	41	7974	1.79	ug/l	# 22
51) 4-Methyl-2-Pentanone	8.65	43	1414	0.23	ug/l	# 53
74) N-amyl acetate	10.83	43	1713	0.25	ug/l	# 53
76) 1,2,3-Trichloropropane	11.14	75	118312	21.50	ug/l	# 37
81) trans-1,4-Dichloro-2-buten	11.14	75	118312	69.75	ug/l	# 10
84) 1,2,4-Trimethylbenzene	11.81	105	4221	0.28	ug/l	# 96
94) Hexachlorobutadiene	13.79	225	78	Below Cal		# 20
95) Naphthalene	13.83	128	78525	4.45	ug/l	# 99

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX004461.D

Acq: 10 Sep 2018 20:48

Instrument :

MSVOA_X

ClientSampleId :

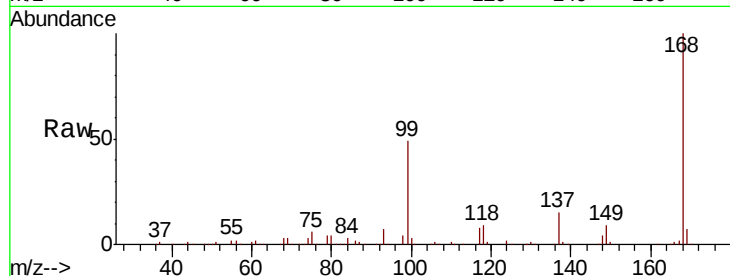
HR-05-090718-B

Tot Ion:168 Resp: 295149

Ion Ratio Lower Upper

168 100

99 48.9 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

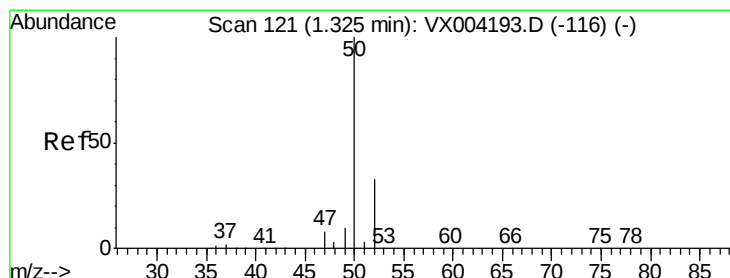
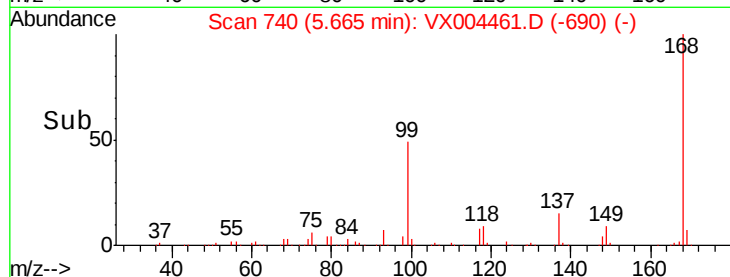
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.45 ug/l

RT: 1.32 min Scan# 27

Delta R.T. -0.01 min

Lab File: VX004461.D

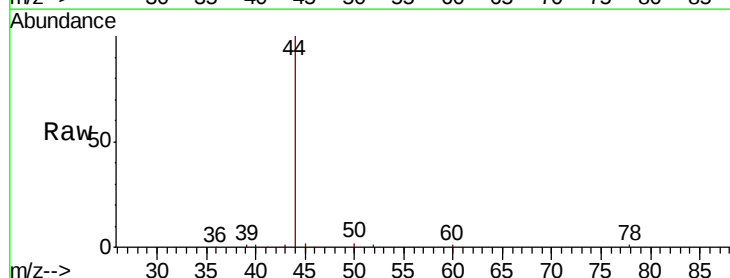
Acq: 10 Sep 2018 20:48

Tgt Ion: 50 Resp: 621

Ion Ratio Lower Upper

50 100

52 55.4 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

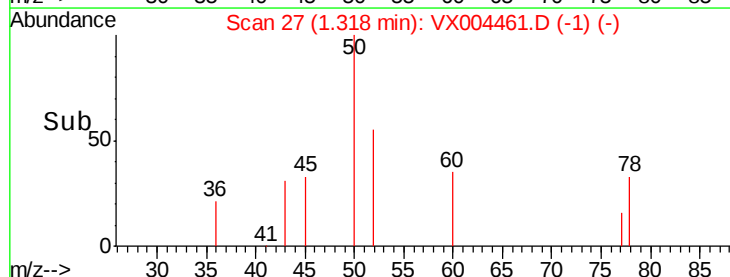
300

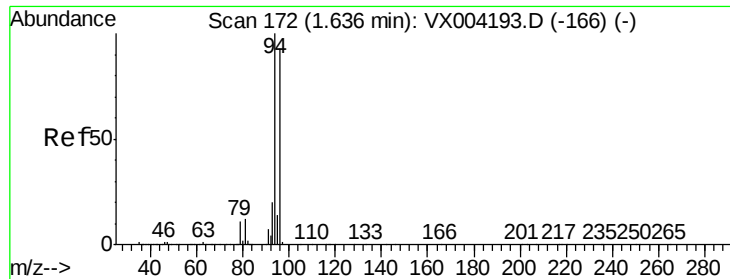
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX004461.D

Acq: 10 Sep 2018 20:48

Instrument :

MSVOA_X

ClientSampleId :

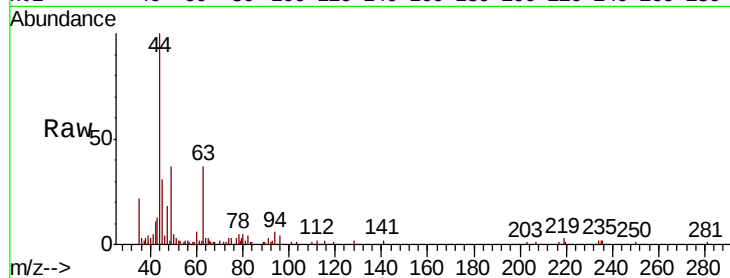
HR-05-090718-B

Tot Ion: 94 Resp: 355

Ion Ratio Lower Upper

94 100

96 58.8 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

250

200

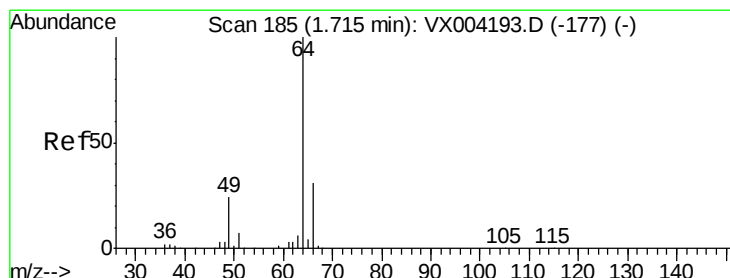
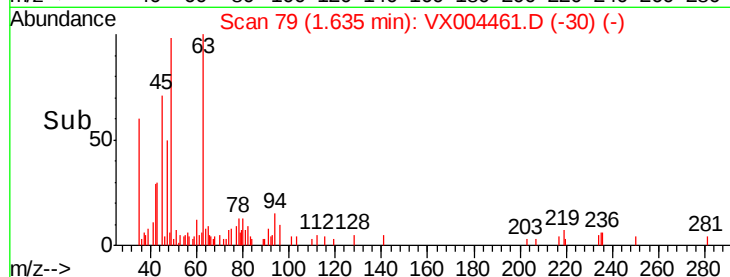
150

100

50

0

Time-->



#6

Chloroethane

Concen: 0.98 ug/l

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX004461.D

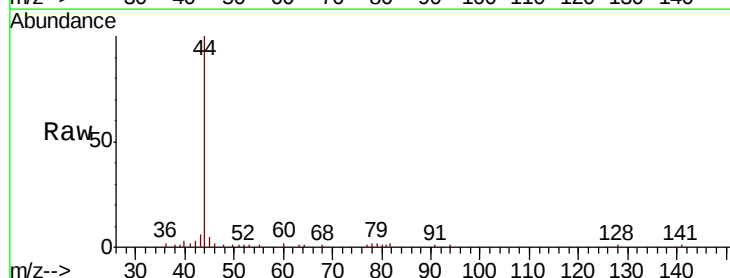
Acq: 10 Sep 2018 20:48

Tgt Ion: 64 Resp: 38

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

80

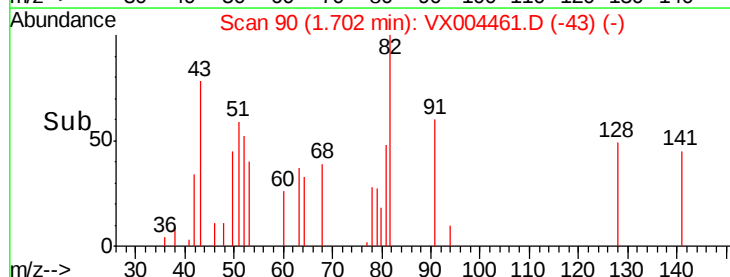
60

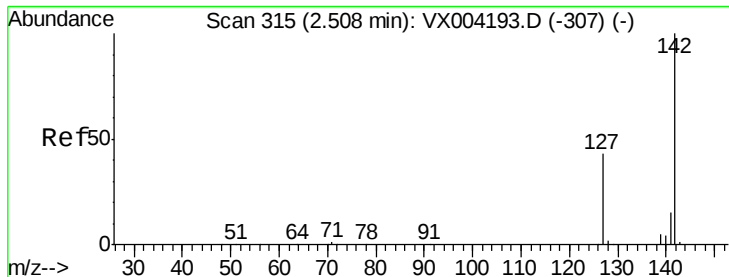
40

20

0

Time-->

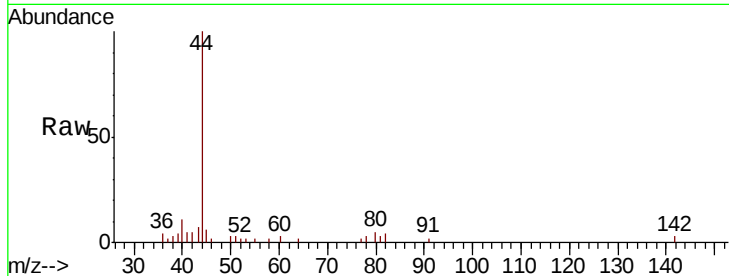




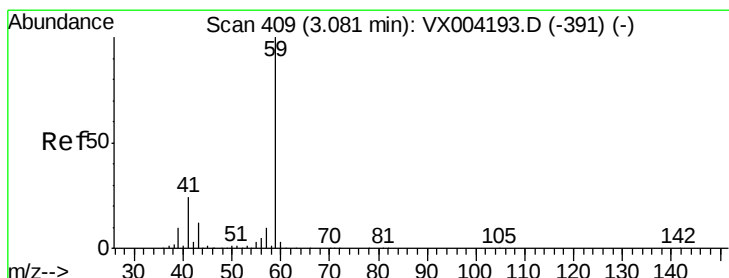
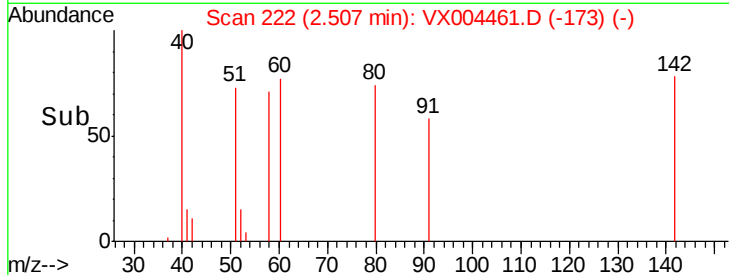
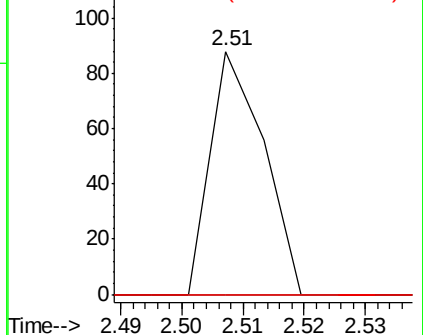
#10
Methyl Iodide
Concen: 4.28 ug/l
RT: 2.51 min Scan# 222
Delta R.T. 0.00 min
Lab File: VX004461.D
Acq: 10 Sep 2018 20:48

Instrument :
MSVOA_X
ClientSampleId :
HR-05-090718-B

Tot Ion:142 Resp: 53
Ion Ratio Lower Upper
142 100
127 0.0 33.8 50.6#
141 0.0 11.4 17.0#

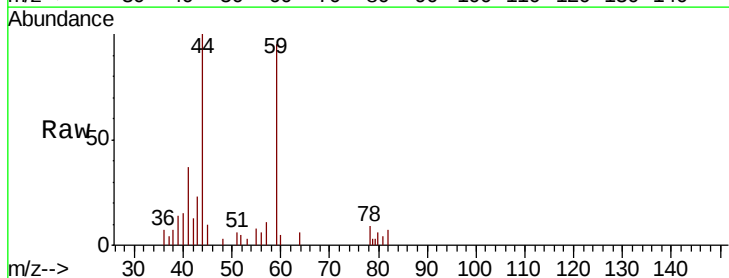


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

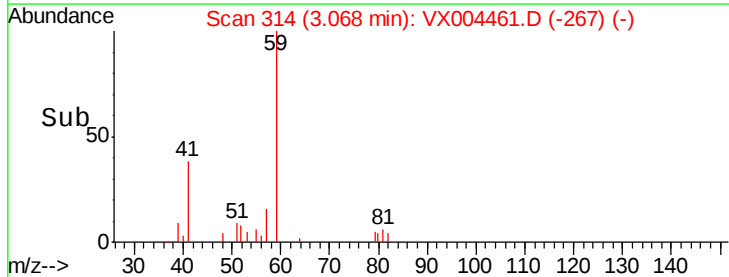
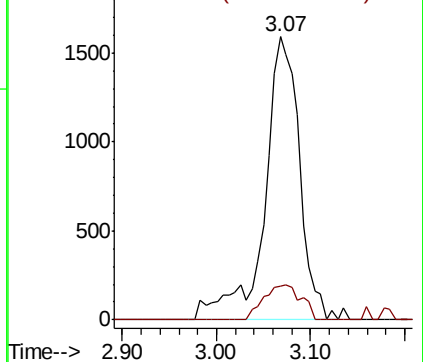


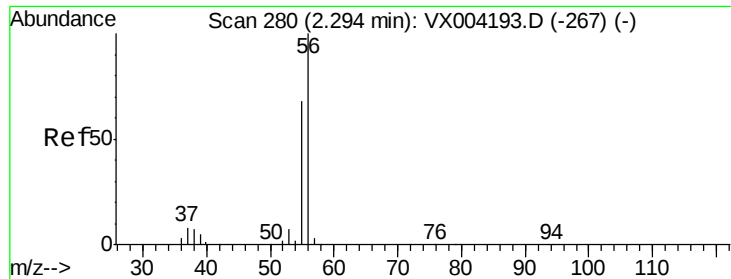
#11
Tert butyl alcohol
Concen: 5.03 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX004461.D
Acq: 10 Sep 2018 20:48

Tgt Ion: 59 Resp: 4126
Ion Ratio Lower Upper
59 100
57 13.2 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 2.25 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX004461.D

Acq: 10 Sep 2018 20:48

Instrument :

MSVOA_X

ClientSampleId :

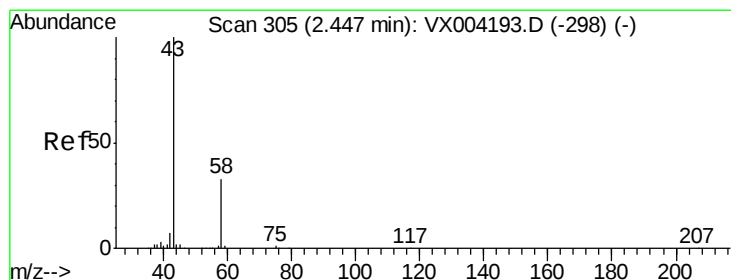
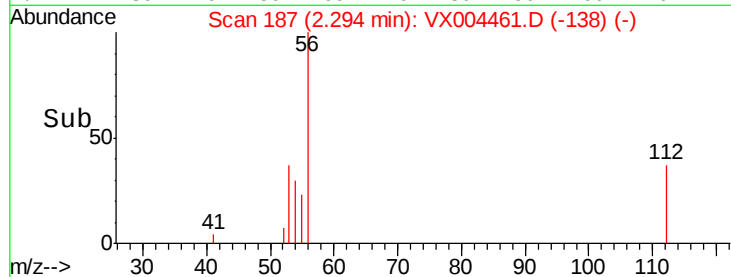
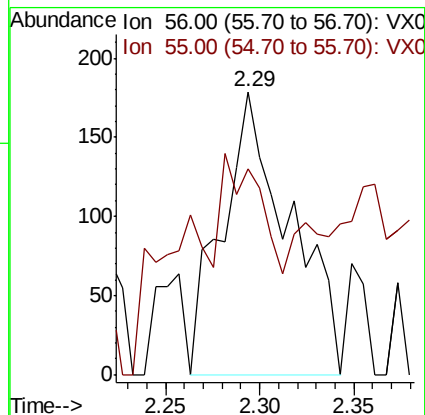
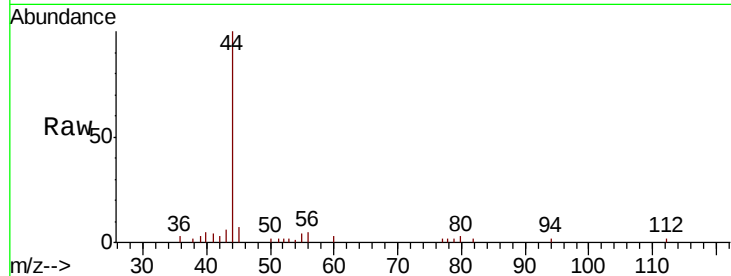
HR-05-090718-B

Tot Ion: 56 Resp: 445

Ion Ratio Lower Upper

56 100

55 53.7 54.7 82.1#



#16

Acetone

Concen: 9.98 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004461.D

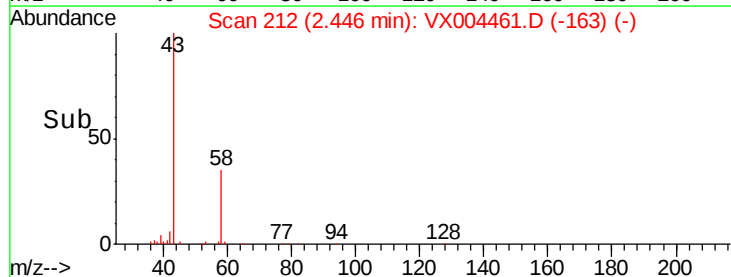
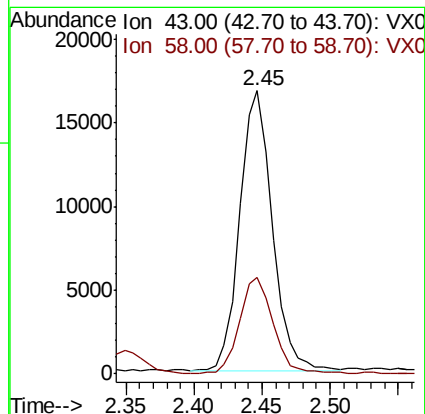
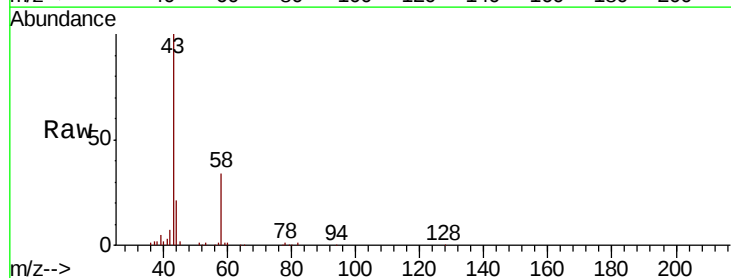
Acq: 10 Sep 2018 20:48

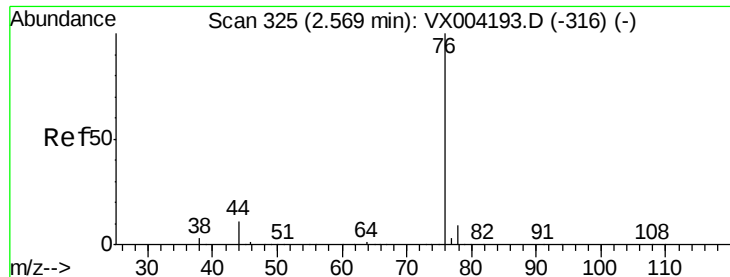
Tgt Ion: 43 Resp: 27851

Ion Ratio Lower Upper

43 100

58 34.3 26.2 39.4





#17

Carbon Disulfide

Concen: 0.85 ug/l

RT: 2.56 min Scan# 231

Delta R.T. -0.01 min

Lab File: VX004461.D

Acq: 10 Sep 2018 20:48

Instrument :

MSVOA_X

ClientSampleId :

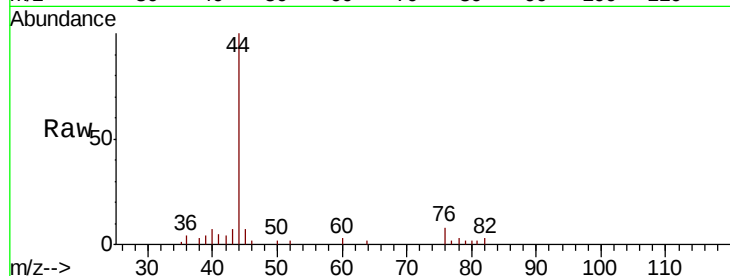
HR-05-090718-B

Tot Ion: 76 Resp: 448

Ion Ratio Lower Upper

76 100

78 1.8 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

250

200

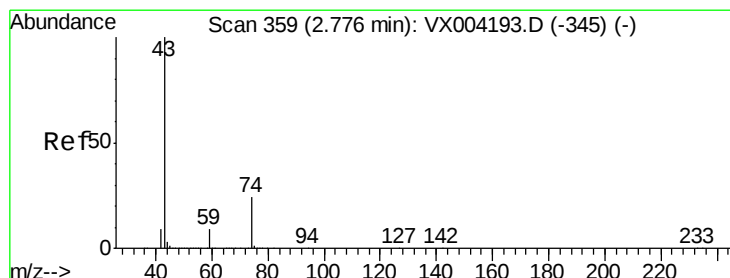
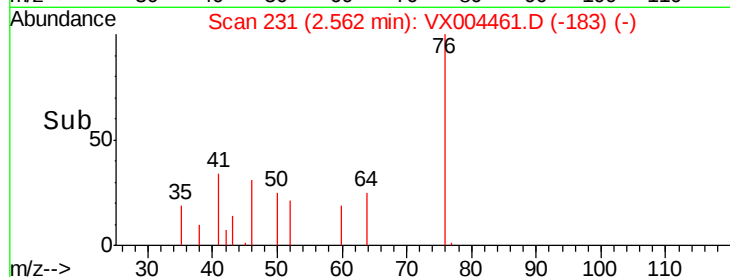
150

100

50

0

Time--> 2.50 2.55 2.60



#18

Methyl Acetate

Concen: 1.86 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.00 min

Lab File: VX004461.D

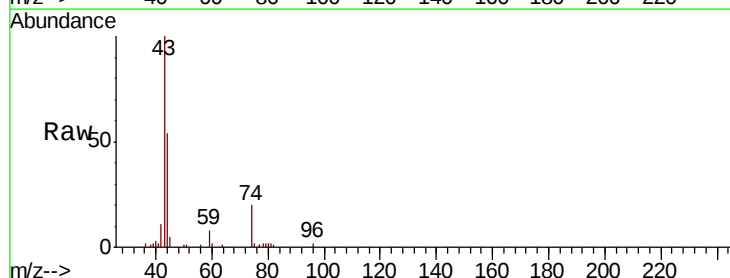
Acq: 10 Sep 2018 20:48

Tgt Ion: 43 Resp: 10590

Ion Ratio Lower Upper

43 100

74 23.3 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

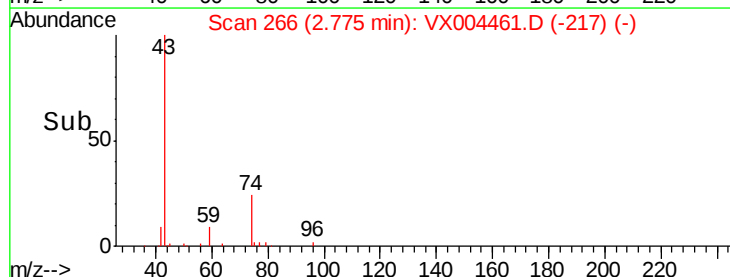
6000

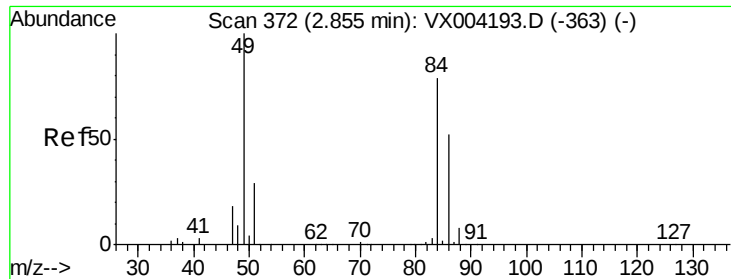
4000

2000

0

Time--> 2.70 2.75 2.80 2.85

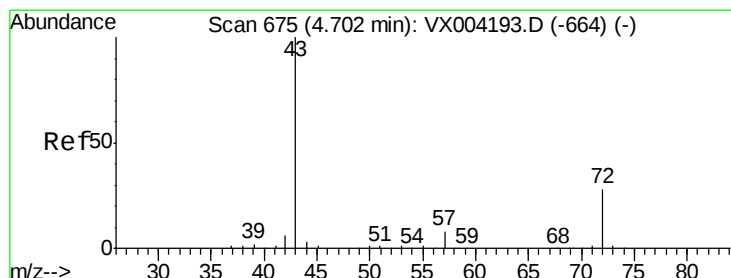
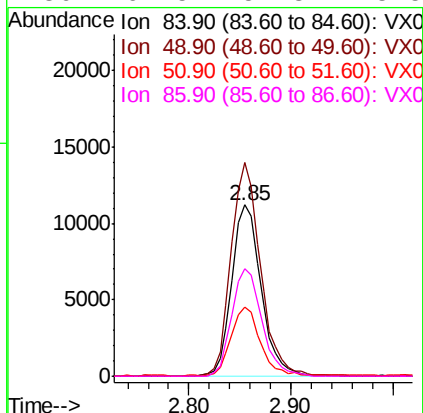
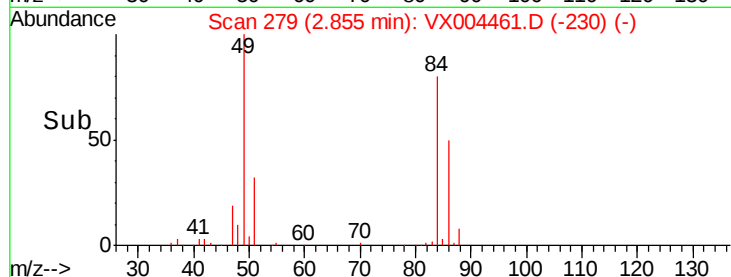
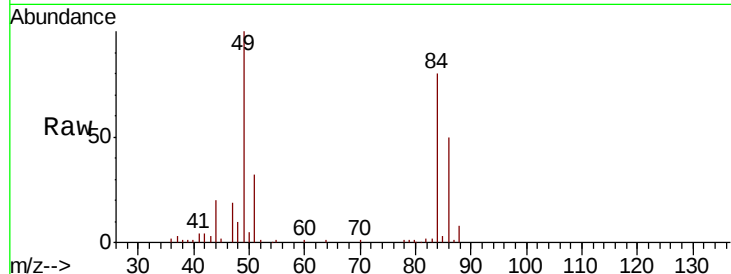




#20
Methvlene Chloride
Concen: 6.04 ua/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX004461.D
Acq: 10 Sep 2018 20:48

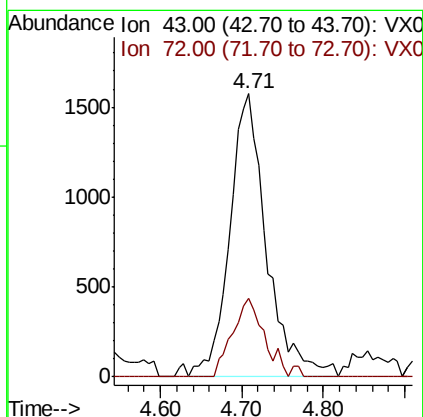
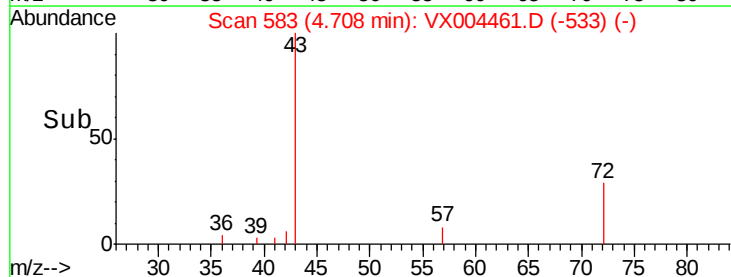
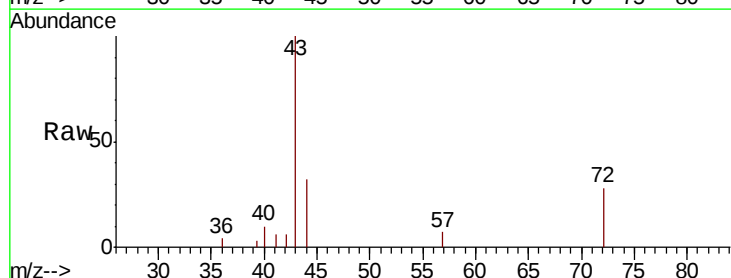
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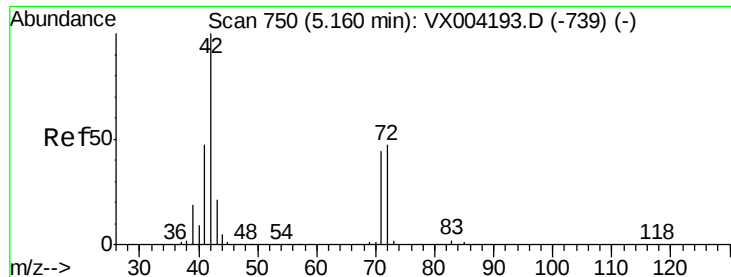
Tot Ion:	84	Resp:	22371
Ion	Ratio	Lower	Upper
84	100		
49	124.8	101.2	151.8
51	39.6	29.5	44.3
86	62.5	52.3	78.5



#25
2-Butanone
Concen: Below Cal
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX004461.D
Acq: 10 Sep 2018 20:48

Tgt Ion:	43	Resp:	4912
Ion	Ratio	Lower	Upper
43	100		
72	27.6	22.0	33.0





#29

Tetrahydrofuran

Concen: 0.88 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX004461.D

Acq: 10 Sep 2018 20:48

Instrument :

MSVOA_X

ClientSampleId :

HR-05-090718-B

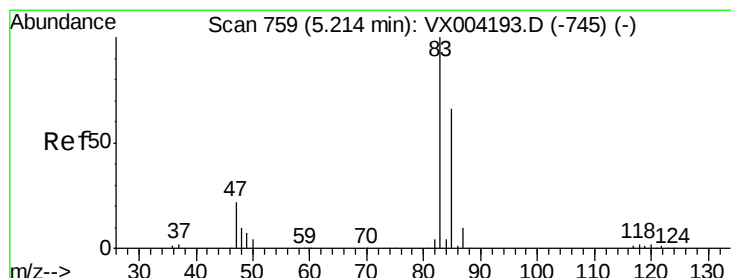
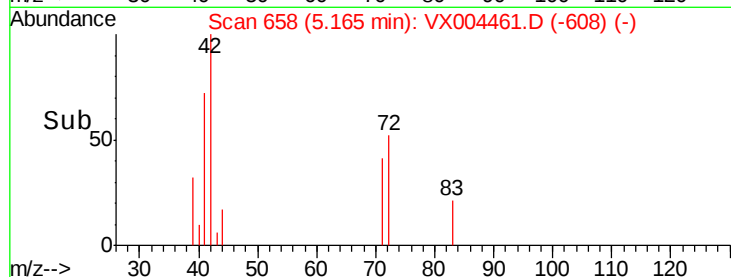
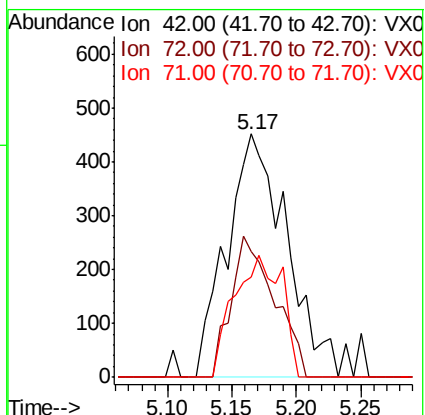
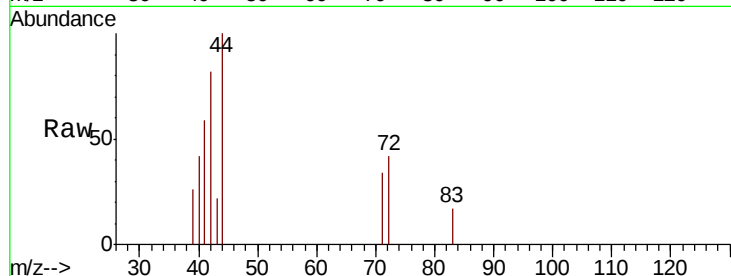
Tot Ion: 42 Resp: 1460

Ion Ratio Lower Upper

42 100

72 42.1 37.4 56.0

71 40.1 34.5 51.7



#30

Chloroform

Concen: 0.58 ug/l

RT: 5.22 min Scan# 667

Delta R.T. 0.01 min

Lab File: VX004461.D

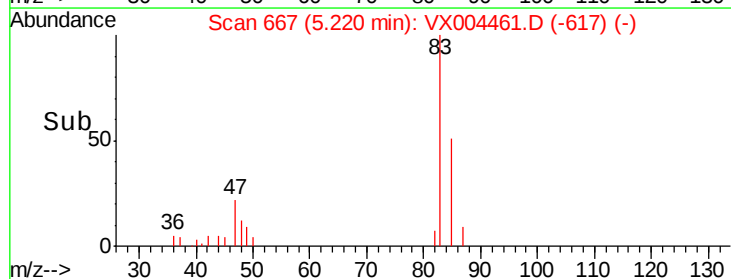
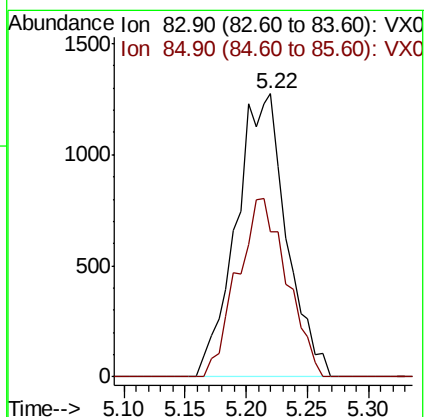
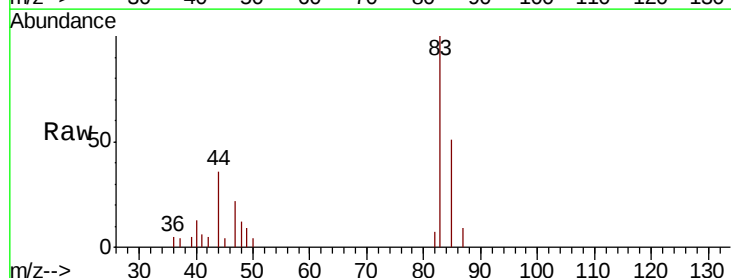
Acq: 10 Sep 2018 20:48

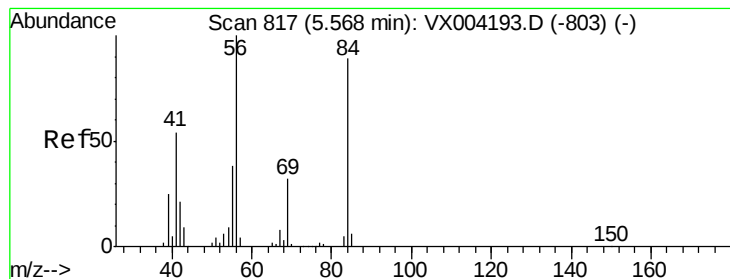
Tgt Ion: 83 Resp: 3655

Ion Ratio Lower Upper

83 100

85 51.4 52.6 79.0#





#31

Cyclohexane

Concen: 0.91 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX004461.D

Acq: 10 Sep 2018 20:48

Instrument :

MSVOA_X

ClientSampleId :

HR-05-090718-B

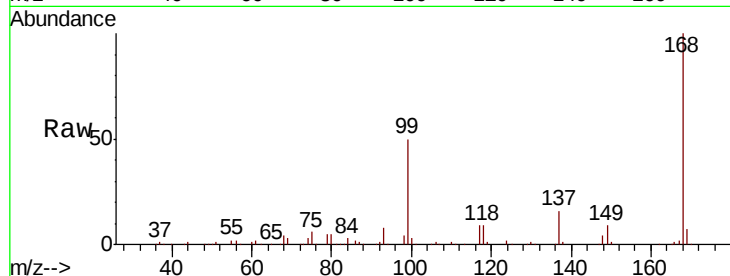
Tot Ion: 56 Resp: 4906

Ion Ratio Lower Upper

56 100

69 182.8 25.4 38.2#

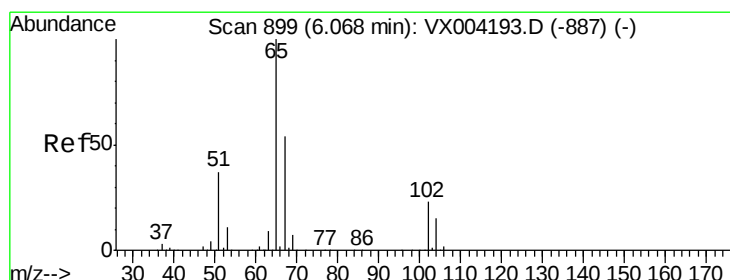
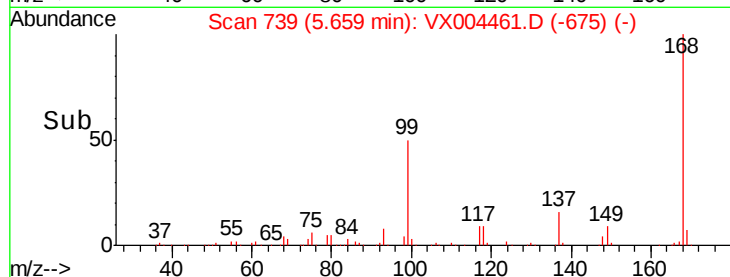
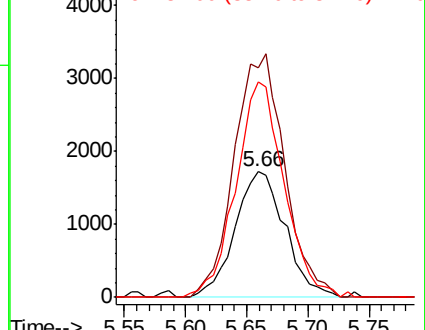
84 172.3 71.4 107.2#



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: 54.57 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004461.D

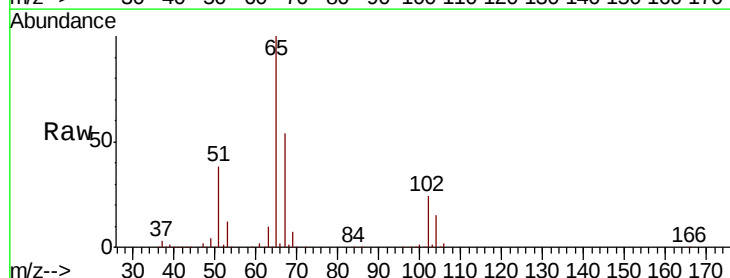
Acq: 10 Sep 2018 20:48

Tgt Ion: 65 Resp: 209922

Ion Ratio Lower Upper

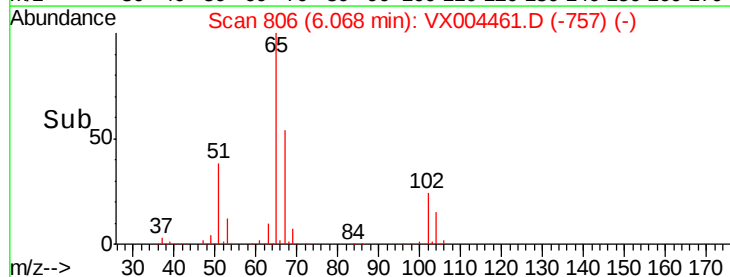
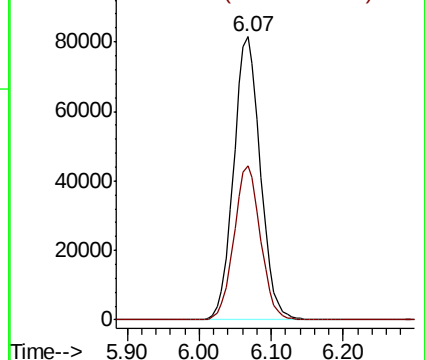
65 100

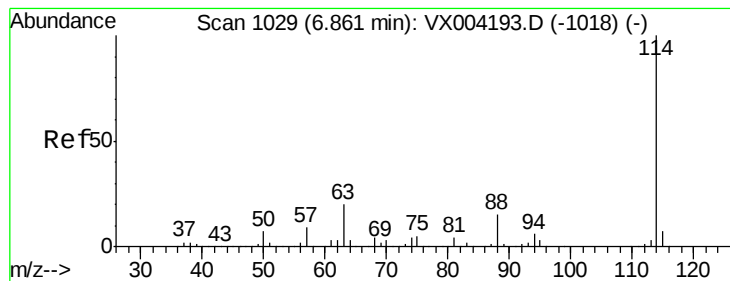
67 54.0 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX004461.D

Acq: 10 Sep 2018 20:48

Instrument :

MSVOA_X

ClientSampleId :

HR-05-090718-B

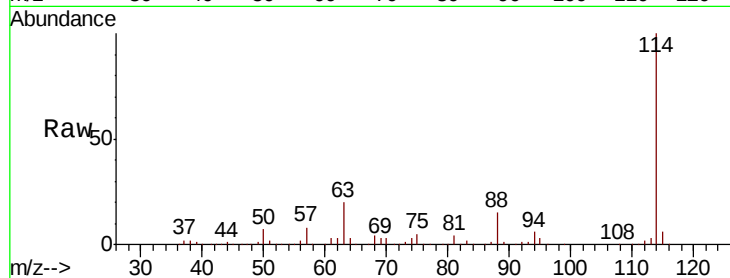
Tot Ion:114 Resp: 489375

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.0

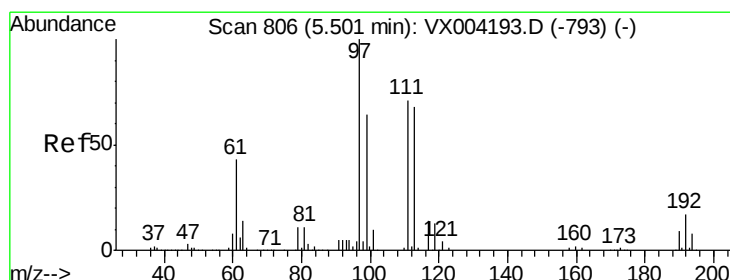
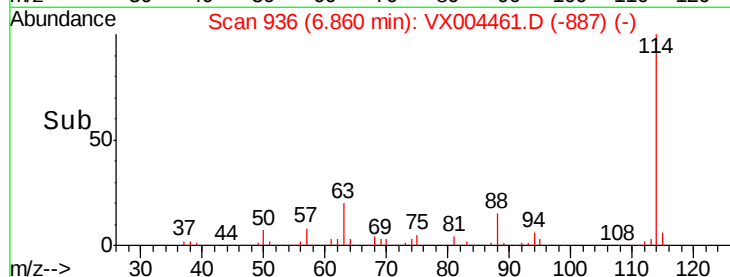
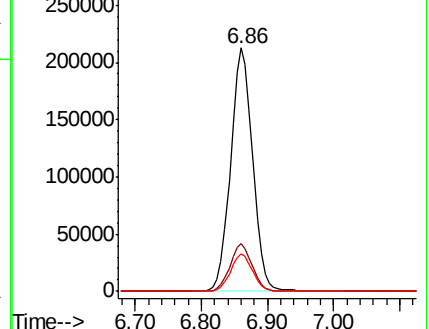
88 15.4 0.0 30.4



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: 51.22 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX004461.D

Acq: 10 Sep 2018 20:48

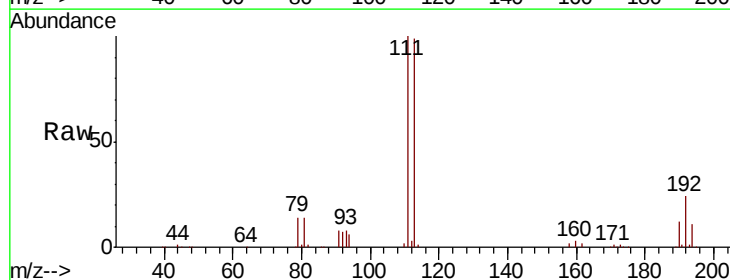
Tgt Ion:113 Resp: 186481

Ion Ratio Lower Upper

113 100

111 102.5 82.4 123.6

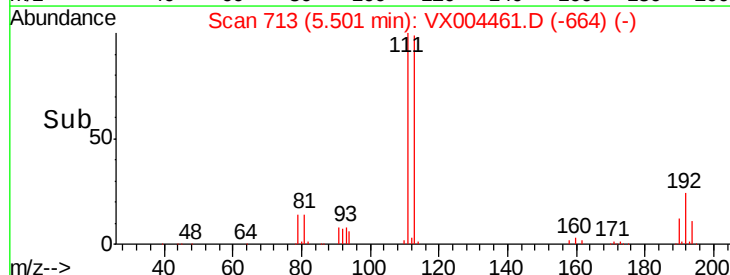
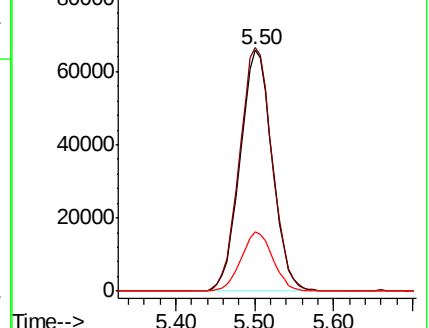
192 24.2 19.4 29.2

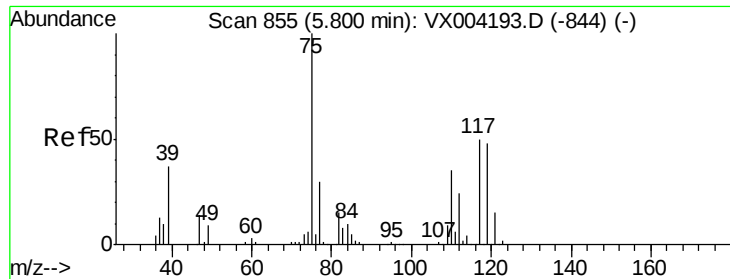


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

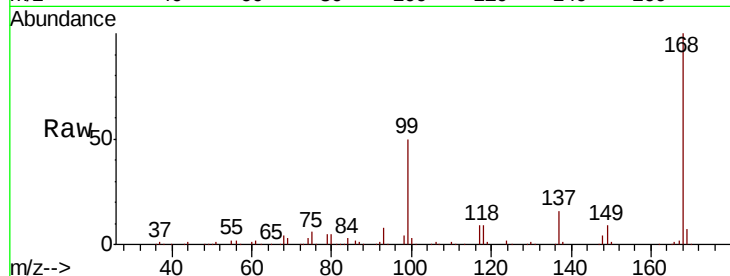




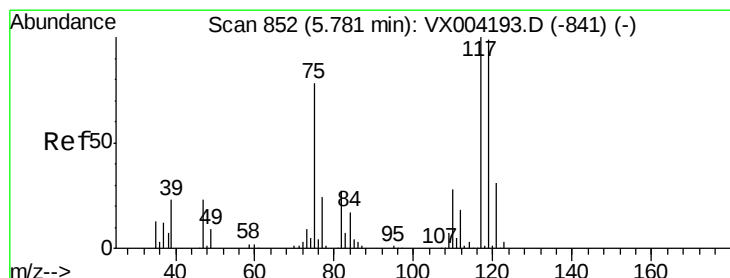
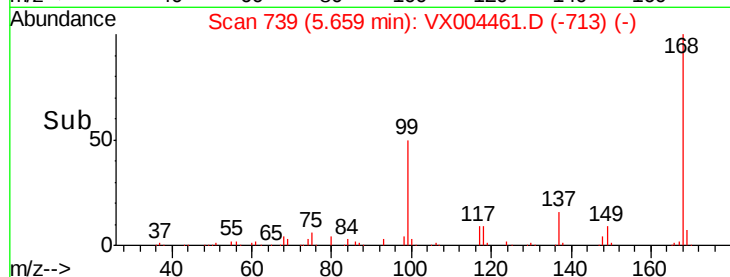
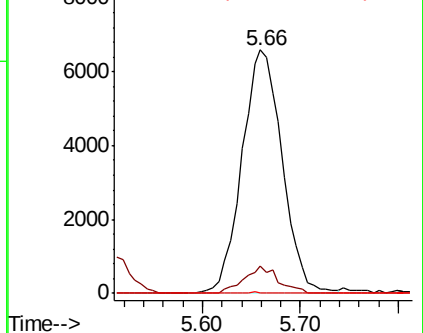
#36
 1,1-Dichloropropene
 Concen: 3.41 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX004461.D
 Acq: 10 Sep 2018 20:48

Instrument :
 MSVOA_X
 ClientSampleId :
 HR-05-090718-B

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.4	18.0	54.0#
77	0.1	24.6	36.8#

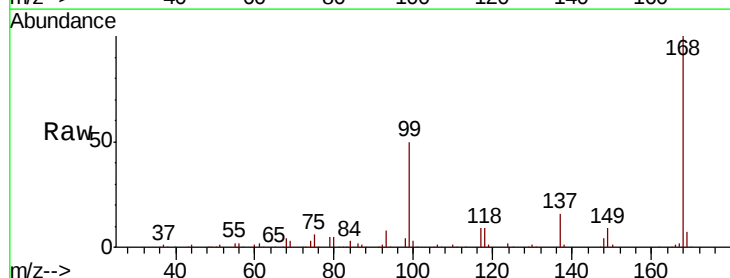


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

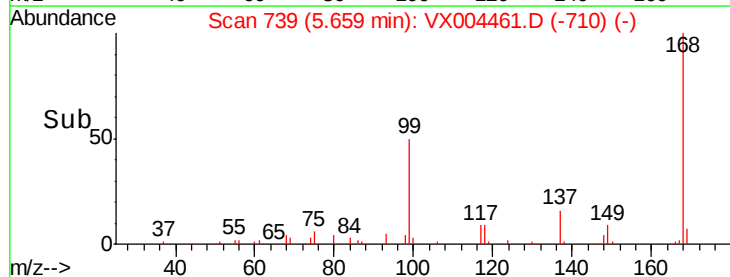
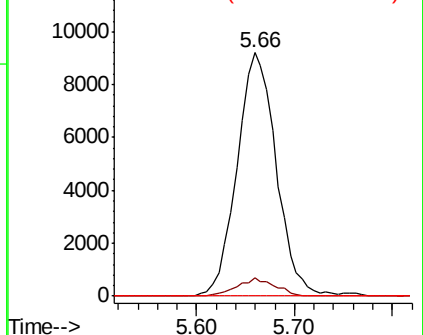


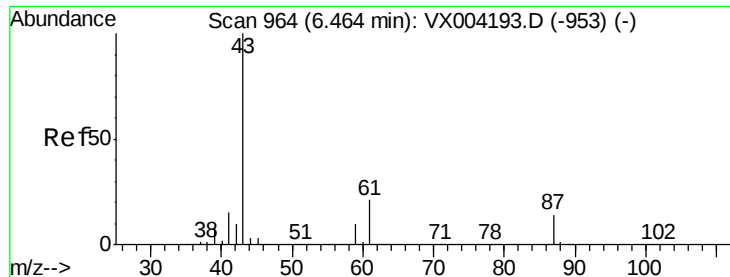
#38
 Carbon Tetrachloride
 Concen: 4.94 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX004461.D
 Acq: 10 Sep 2018 20:48

Tgt Ion	Ratio	Lower	Upper
117	100		
119	7.7	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



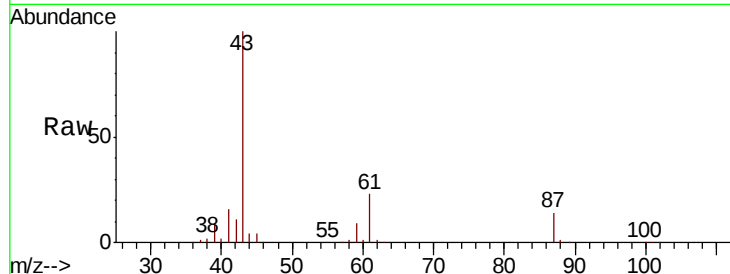


#43

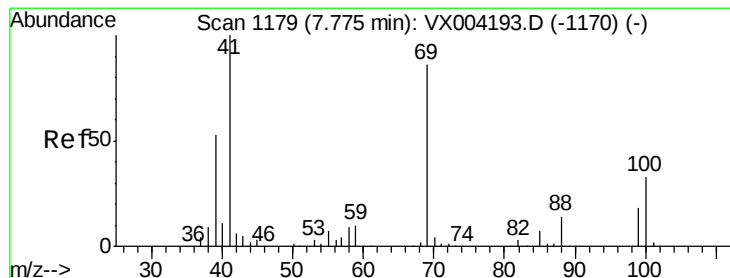
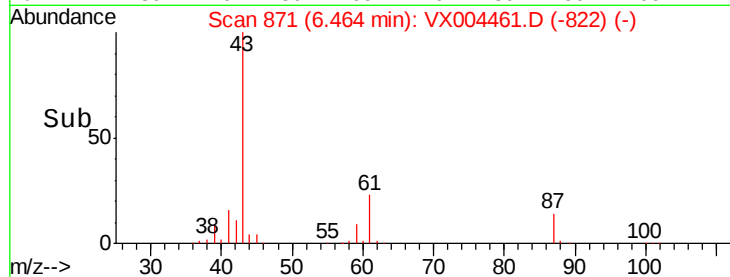
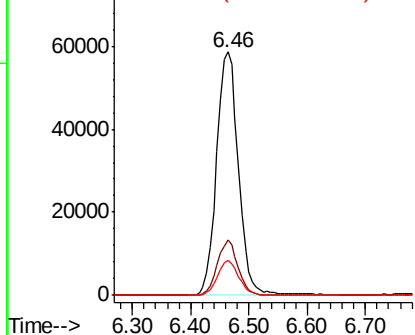
Isopropyl Acetate
 Concen: 18.38 ug/l
 RT: 6.46 min Scan# 871
 Delta R.T. -0.00 min
 Lab File: VX004461.D
 Acq: 10 Sep 2018 20:48

Instrument :
 MSVOA_X
 ClientSampleId :
 HR-05-090718-B

Tot Ion	43	Resp	152787
Ion Ratio	Lower	Upper	
43	100		
61	21.4	17.0	25.4
87	13.8	11.4	17.2



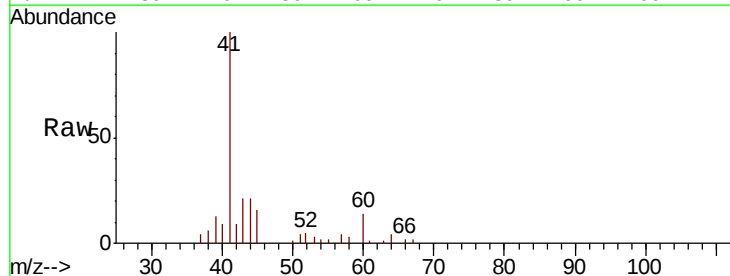
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



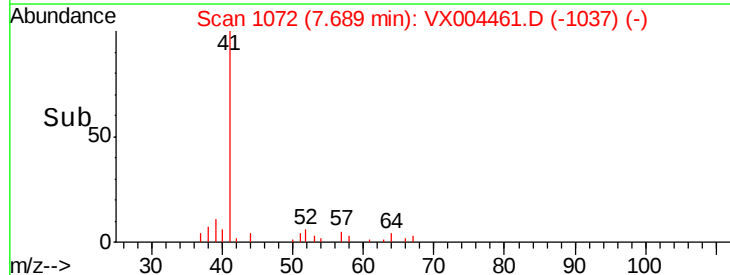
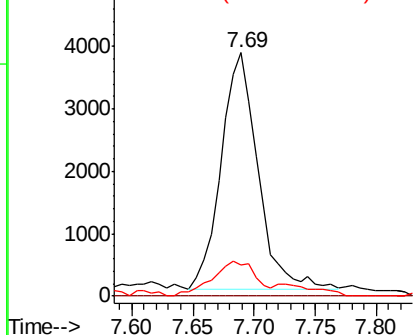
#48

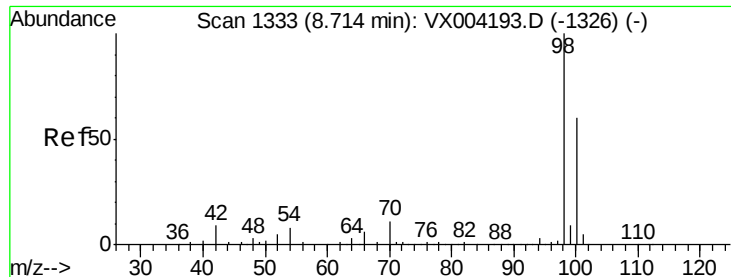
Methyl methacrylate
 Concen: 1.79 ug/l
 RT: 7.69 min Scan# 1072
 Delta R.T. -0.09 min
 Lab File: VX004461.D
 Acq: 10 Sep 2018 20:48

Tgt Ion	41	Resp	7974
Ion Ratio	Lower	Upper	
41	100		
69	0.0	70.2	105.4#
39	17.1	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: 51.48 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX004461.D

Acq: 10 Sep 2018 20:48

Instrument :

MSVOA_X

ClientSampleId :

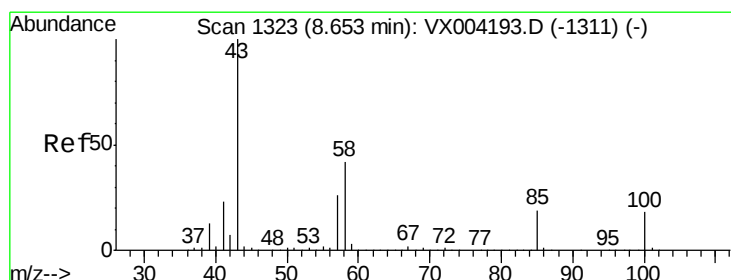
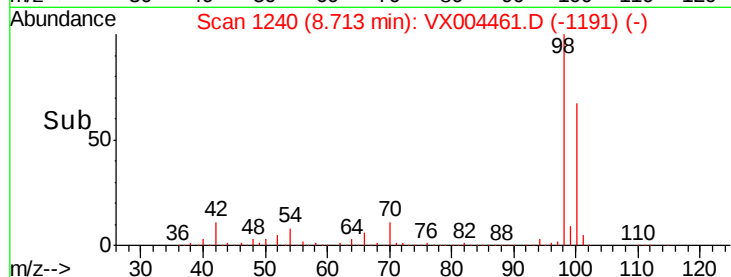
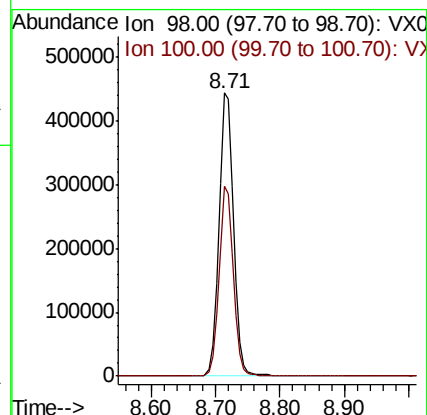
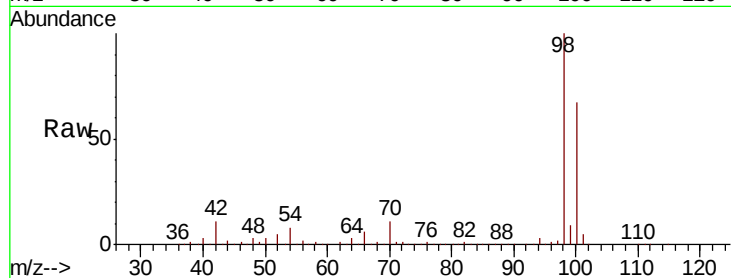
HR-05-090718-B

Tot Ion: 98 Resp: 707380

Ion Ratio Lower Upper

98 100

100 65.9 52.9 79.3



#51

4-Methyl-2-Pentanone

Concen: 0.23 ug/l

RT: 8.65 min Scan# 1230

Delta R.T. -0.00 min

Lab File: VX004461.D

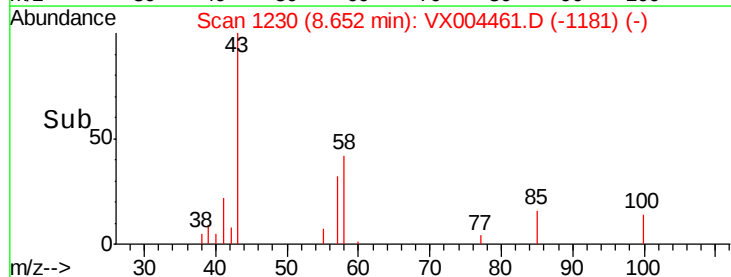
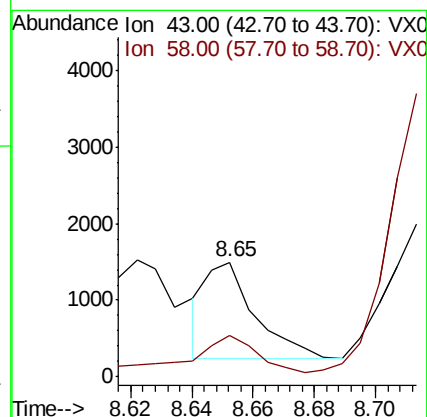
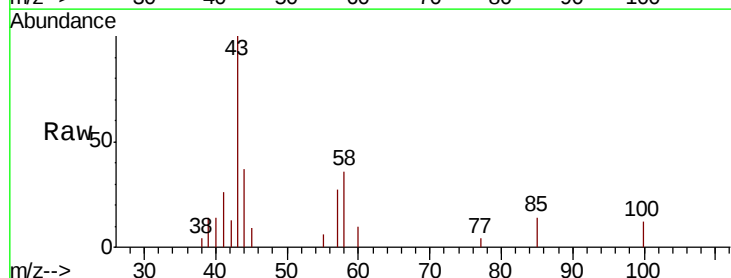
Acq: 10 Sep 2018 20:48

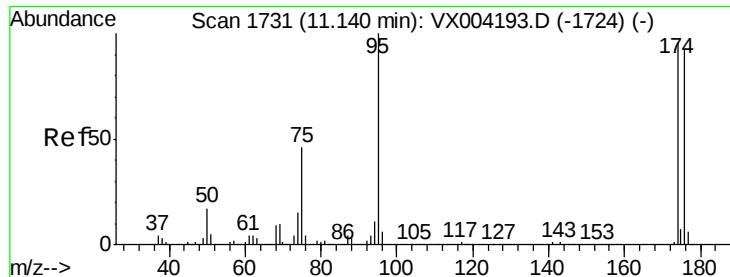
Tgt Ion: 43 Resp: 1414

Ion Ratio Lower Upper

43 100

58 71.0 33.1 49.7#





#62

4-Bromofluorobenzene

Concen: 49.34 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX004461.D

Acq: 10 Sep 2018 20:48

Instrument :

MSVOA_X

ClientSampleId :

HR-05-090718-B

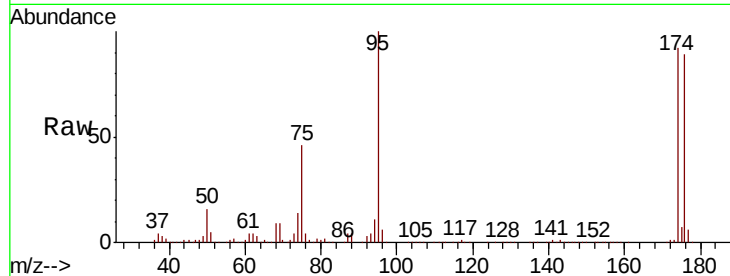
Tot Ion: 95 Resp: 252996

Ion Ratio Lower Upper

95 100

174 92.3 0.0 185.2

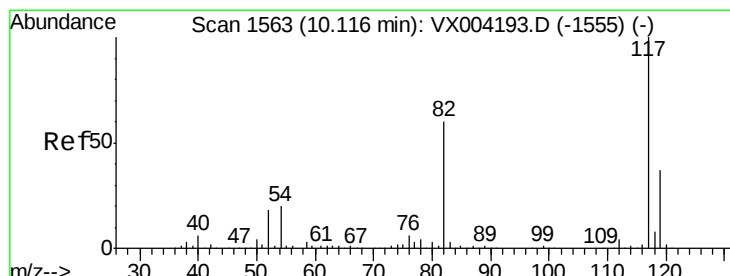
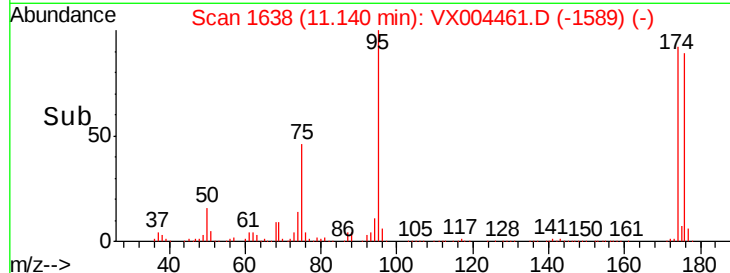
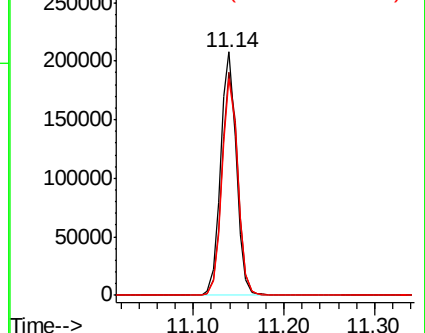
176 89.2 0.0 178.6



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: 50.00 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX004461.D

Acq: 10 Sep 2018 20:48

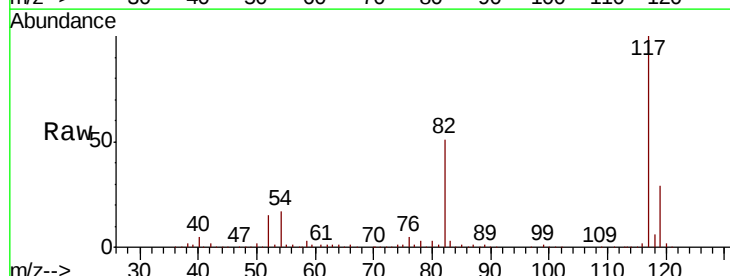
Tgt Ion: 117 Resp: 454936

Ion Ratio Lower Upper

117 100

82 51.2 47.8 71.6

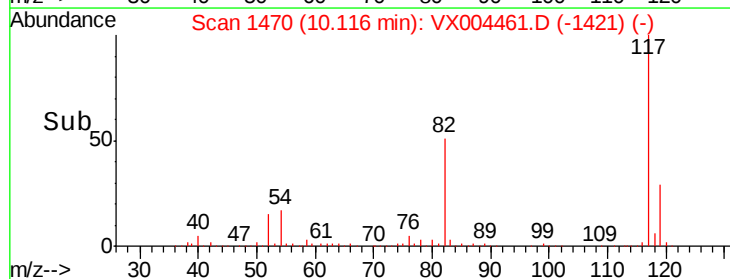
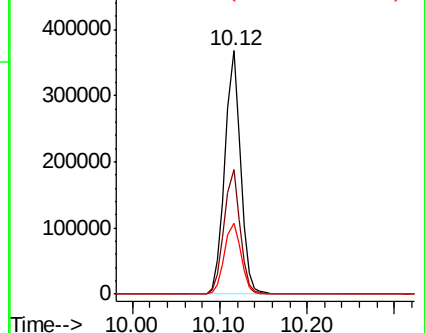
119 29.3 29.3 43.9#

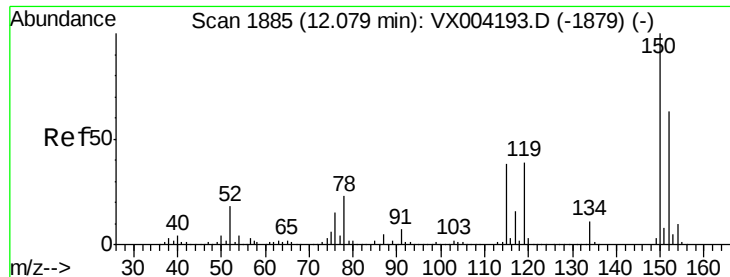


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004461.D

Acq: 10 Sep 2018 20:48

Instrument :

MSVOA_X

ClientSampleId :

HR-05-090718-B

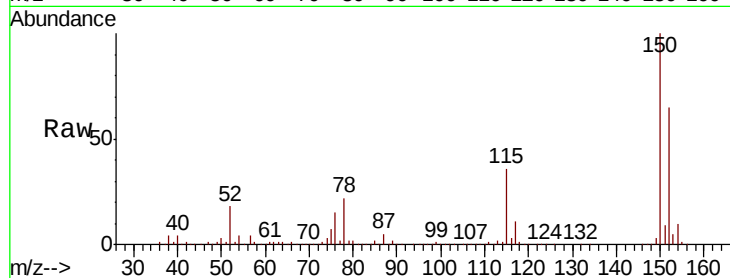
Tot Ion:152 Resp: 270583

Ion Ratio Lower Upper

152 100

115 54.5 39.0 117.0

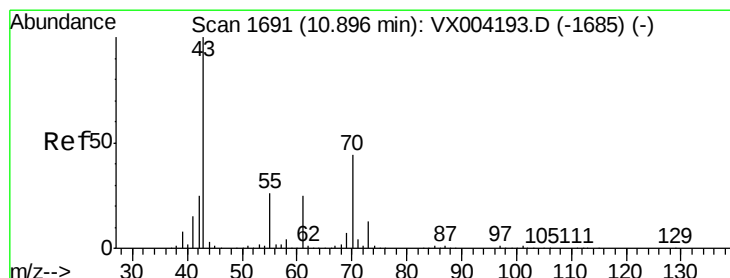
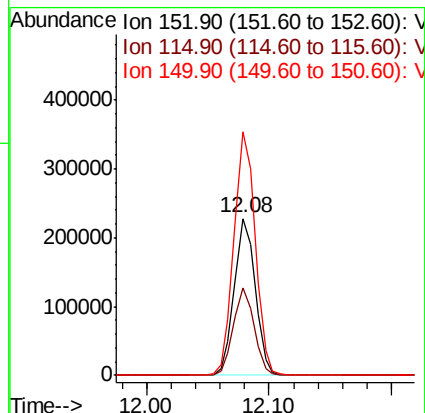
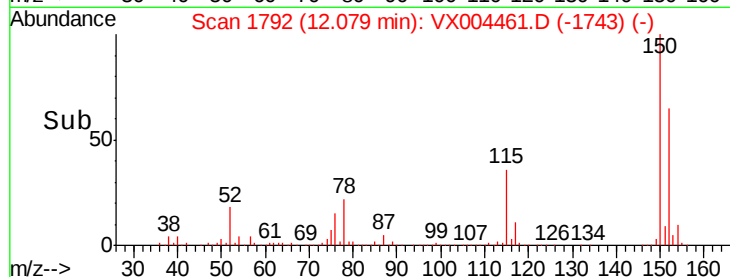
150 156.7 0.0 351.0



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



#74

N-ethyl acetate

Concen: 0.25 ug/l

RT: 10.83 min Scan# 1587

Delta R.T. -0.07 min

Lab File: VX004461.D

Acq: 10 Sep 2018 20:48

Tgt Ion: 43 Resp: 1713

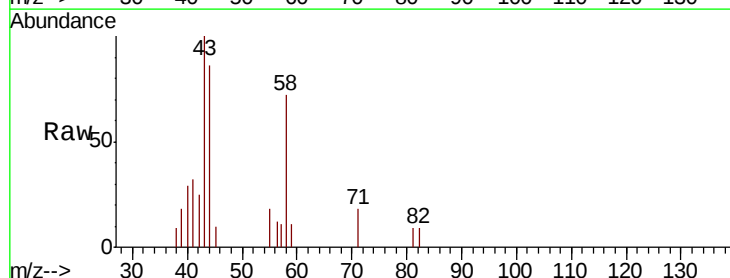
Ion Ratio Lower Upper

43 100

70 0.0 37.4 56.0#

55 24.4 21.8 32.8

61 0.0 20.6 30.8#

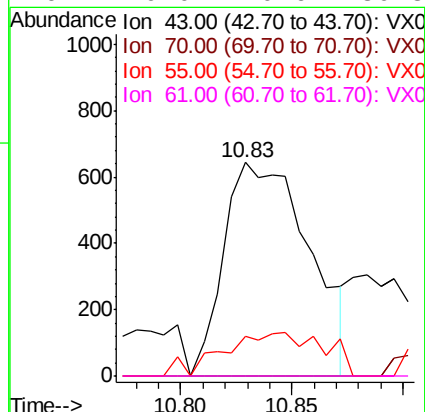
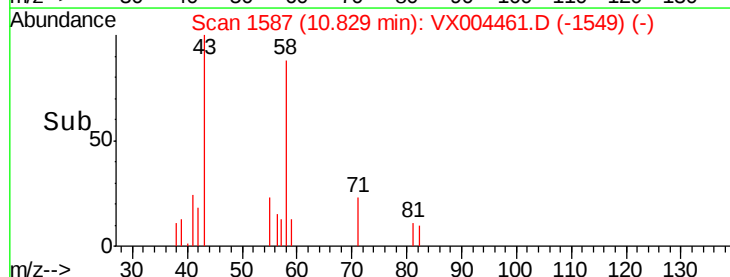


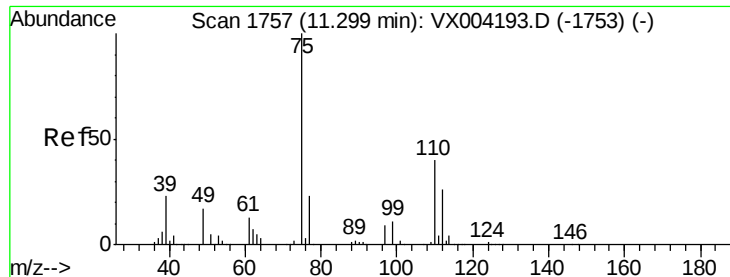
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 21.50 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004461.D

Acq: 10 Sep 2018 20:48

Instrument :

MSVOA_X

ClientSampleId :

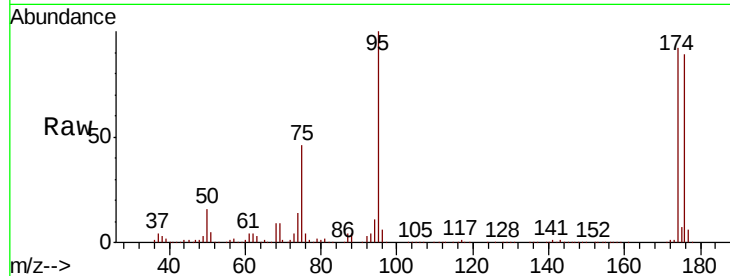
HR-05-090718-B

Tot Ion: 75 Resp: 118312

Ion Ratio Lower Upper

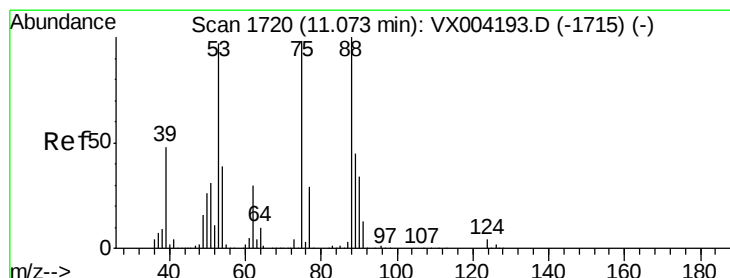
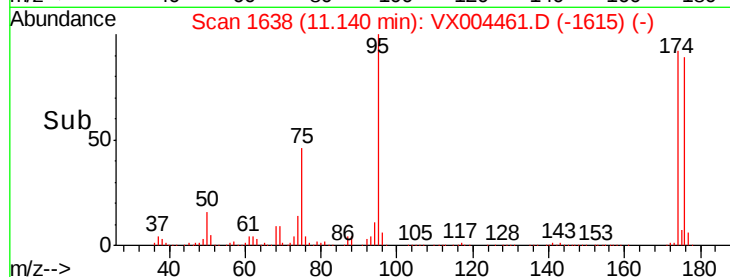
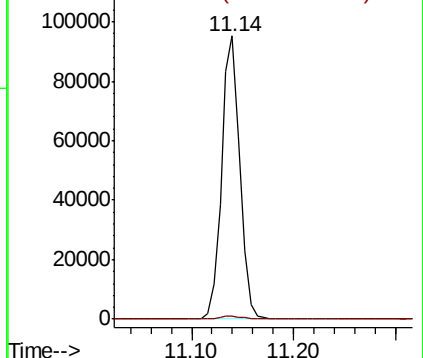
75 100

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: 69.75 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX004461.D

Acq: 10 Sep 2018 20:48

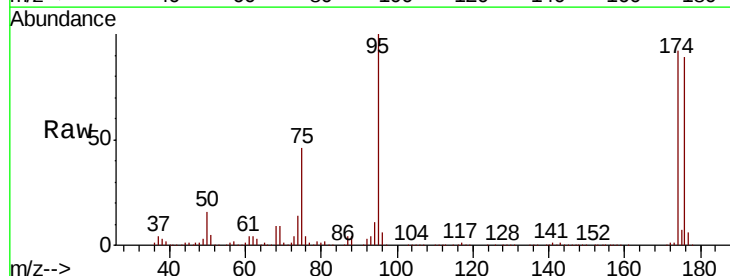
Tgt Ion: 75 Resp: 118312

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

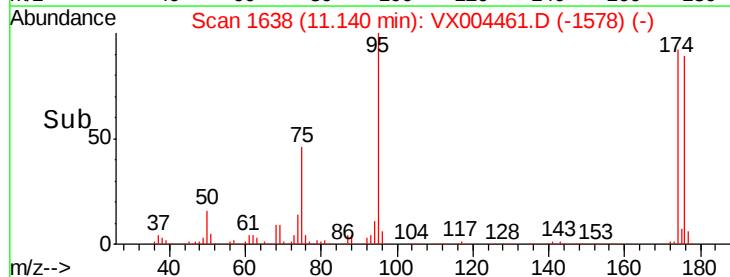
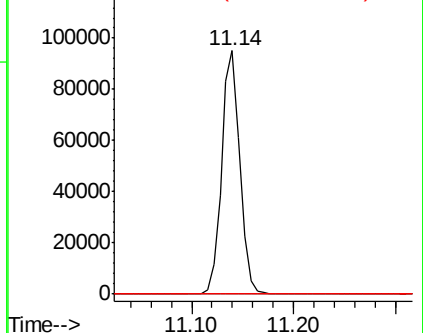
89 0.0 37.2 55.8#

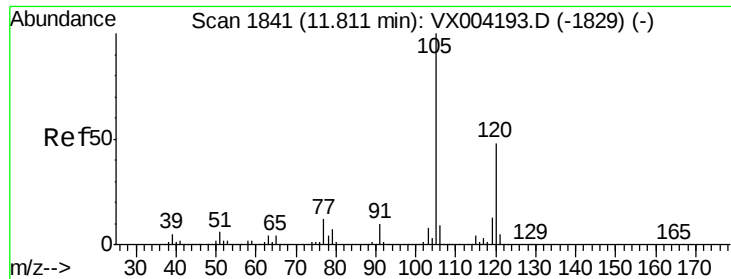


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

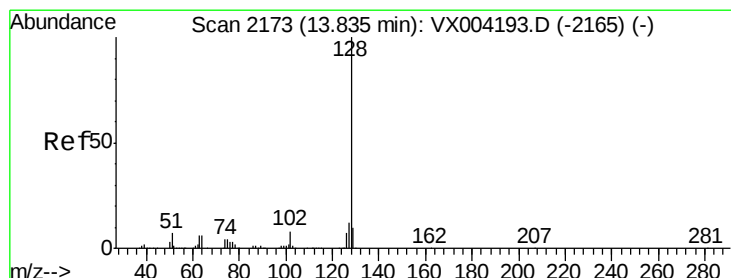
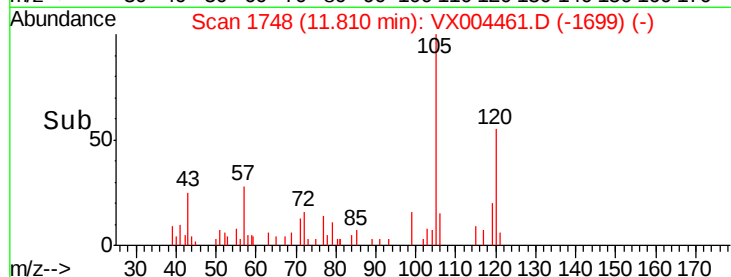
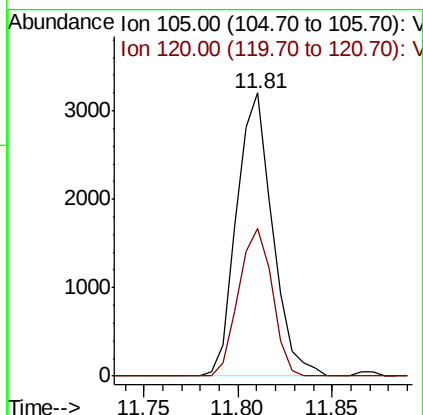
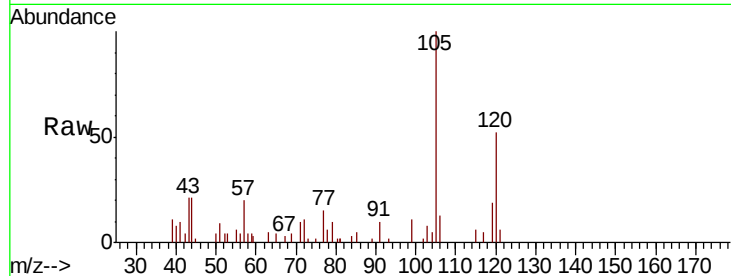




#84
 1,2,4-Trimethylbenzene
 Concen: 0.28 ug/l
 RT: 11.81 min Scan# 1748
 Delta R.T. -0.00 min
 Lab File: VX004461.D
 Acq: 10 Sep 2018 20:48

Instrument :
 MSVOA_X
 ClientSampleId :
 HR-05-090718-B

Tot Ion:105 Resp: 4221
 Ion Ratio Lower Upper
 105 100
 120 49.0 23.2 69.6



#95
 Naphthalene
 Concen: 4.45 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. -0.00 min
 Lab File: VX004461.D
 Acq: 10 Sep 2018 20:48

Tgt Ion:128 Resp: 78525
 Ion Ratio Lower Upper
 128 100
 127 12.9 10.2 15.2
 129 11.4 8.6 12.8

