

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091418\
 Data File : VX004560.D
 Acq On : 15 Sep 2018 03:36
 Operator : JC/MD
 Sample : J4925-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S13-EB-2018-1

Quant Time: Sep 15 06:07:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	278215	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	388273	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	348532	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	186426	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	177035	49.35	ug/l	0.00
Spiked Amount			Recovery	=	98.70%	
35) Dibromofluoromethane	5.51	113	160013	45.04	ug/l	0.00
Spiked Amount			Recovery	=	90.08%	
50) Toluene-d8	8.72	98	547222	45.93	ug/l	0.00
Spiked Amount			Recovery	=	91.86%	
62) 4-Bromofluorobenzene	11.14	95	177201	41.66	ug/l	0.00
Spiked Amount			Recovery	=	83.32%	

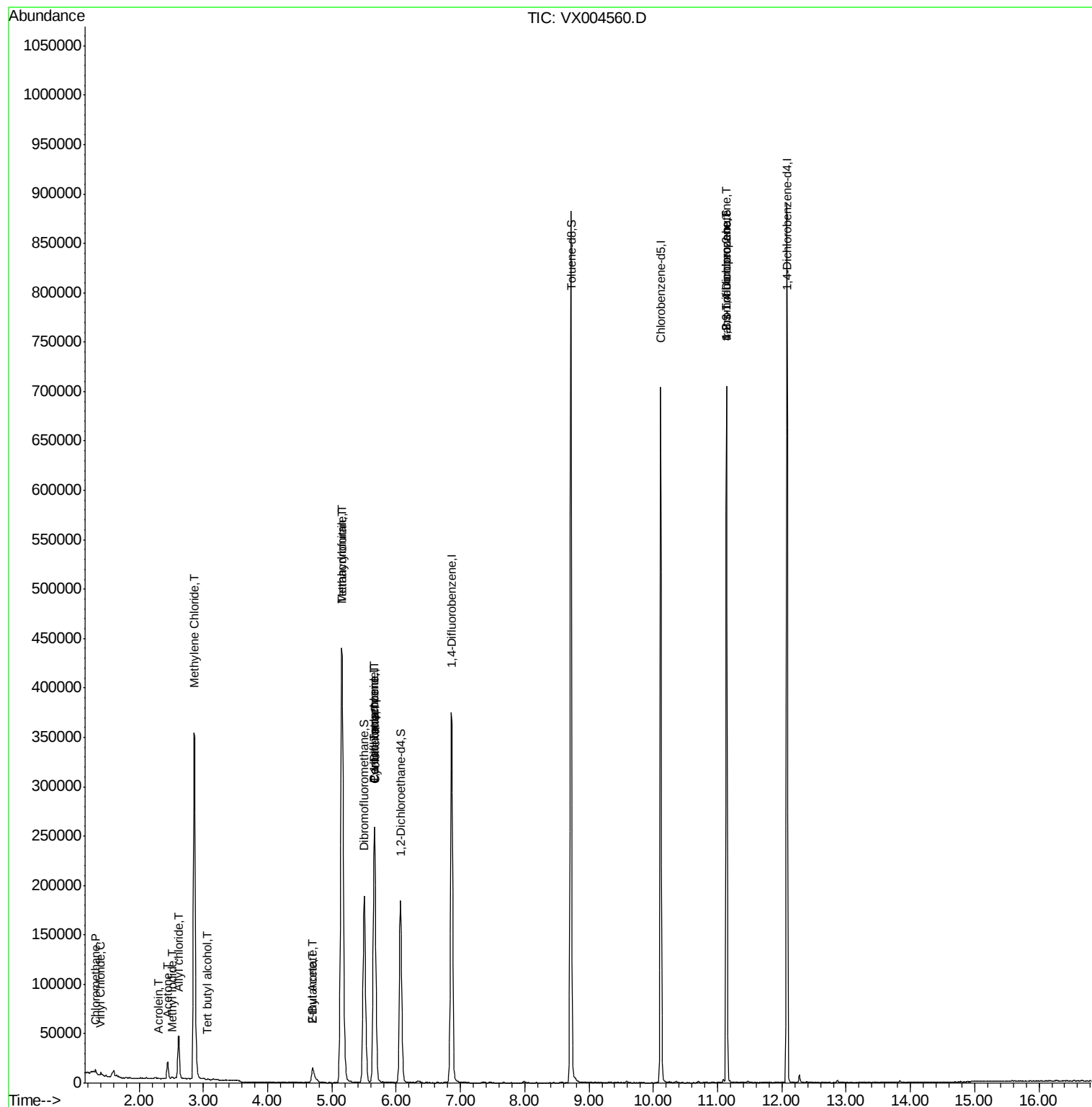
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2423	0.68	ug/l	92
4) Vinyl Chloride	1.40	62	1347	0.37	ug/l	89
5) Bromomethane	1.65	94	1088	Below Cal		81
10) Methyl Iodide	2.51	142	865	4.47	ug/l #	80
11) Tert butyl alcohol	3.06	59	1030	1.20	ug/l #	90
13) Acrolein	2.29	56	154	0.46	ug/l #	1
14) Allyl chloride	2.61	41	3947	0.66	ug/l #	60
16) Acetone	2.45	43	18843	10.76	ug/l	96
20) Methylene Chloride	2.85	84	175937	48.98	ug/l	93
25) 2-Butanone	4.70	43	26444	9.49	ug/l	92
29) Tetrahydrofuran	5.15	42	393799	234.34	ug/l	98
31) Cyclohexane	5.67	56	4551	0.88	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	17867	3.79	ug/l #	48
37) Ethyl Acetate	4.70	43	26444	4.93	ug/l #	67
38) Carbon Tetrachloride	5.66	117	23673	5.14	ug/l #	16
41) Methacrylonitrile	5.15	41	232566	78.73	ug/l #	43
76) 1,2,3-Trichloropropane	11.14	75	83898	22.37	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	83898	71.30	ug/l #	10

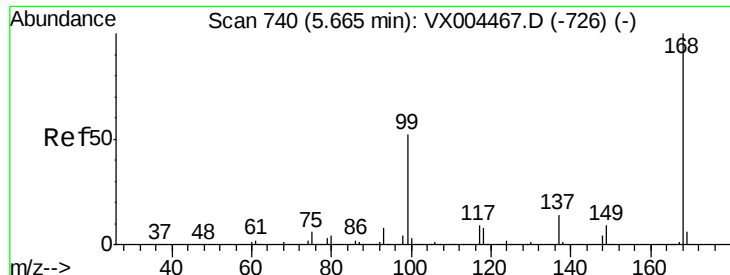
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX004560.D

Acq: 15 Sep 2018 03:36

Instrument :

MSVOA_X

ClientSampleId :

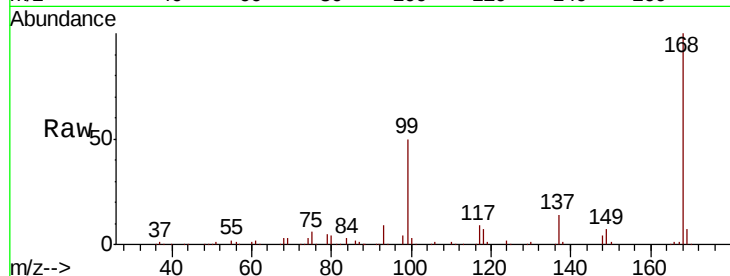
S13-EB-2018-1

Tot Ion:168 Resp: 278215

Ion Ratio Lower Upper

168 100

99 49.7 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

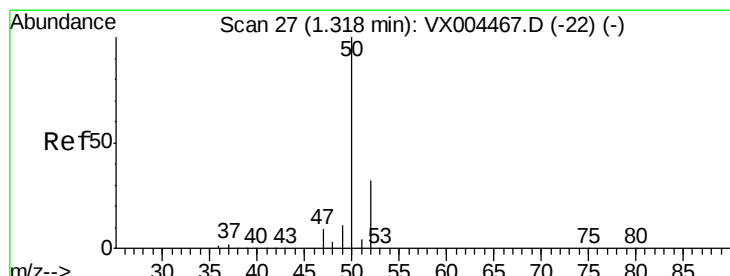
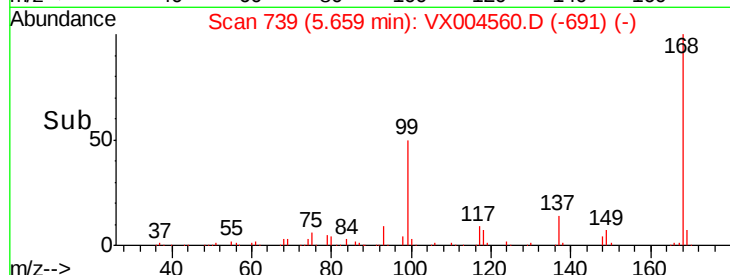
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.68 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX004560.D

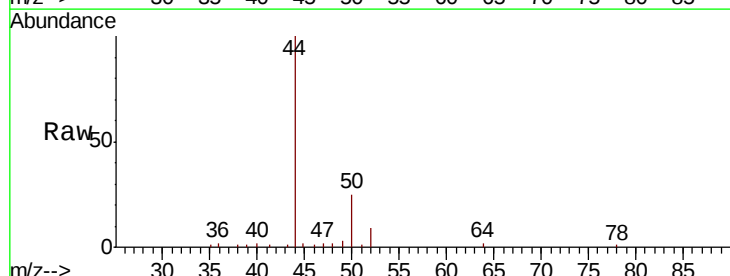
Acq: 15 Sep 2018 03:36

Tgt Ion: 50 Resp: 2423

Ion Ratio Lower Upper

50 100

52 37.1 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

2500

2000

1500

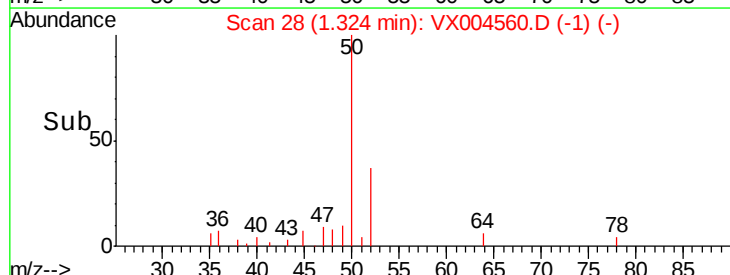
1000

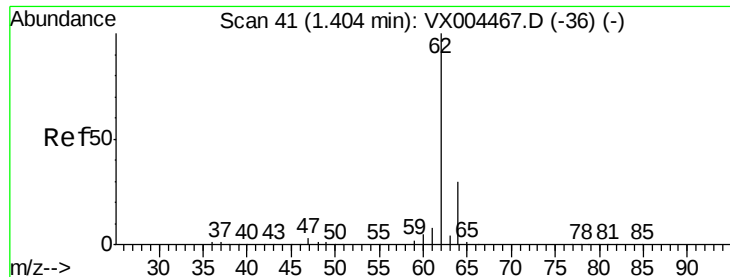
500

0

Time-->

1.30 1.35





#4

Vinyl Chloride

Concen: 0.37 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.00 min

Lab File: VX004560.D

Acq: 15 Sep 2018 03:36

Instrument :

MSVOA_X

ClientSampled :

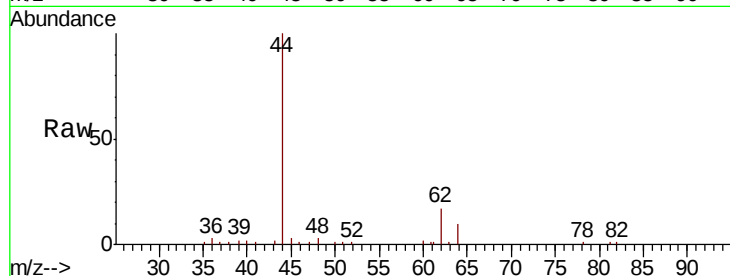
S13-EB-2018-1

Tot Ion: 62 Resp: 1347

Ion Ratio Lower Upper

62 100

64 38.4 25.8 38.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

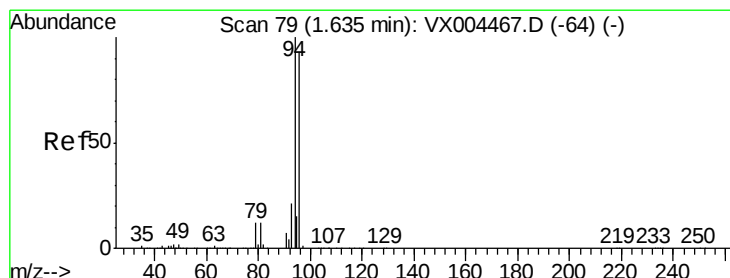
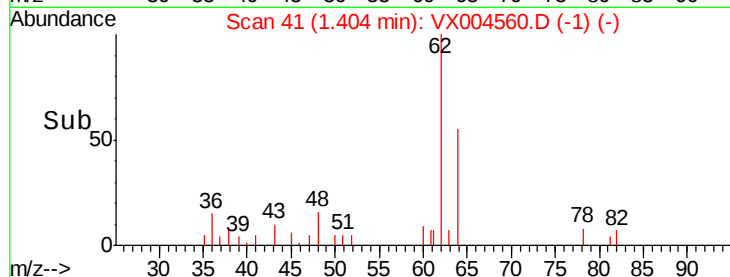
1.40

1000

500

0

Time--> 1.35 1.40 1.45



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004560.D

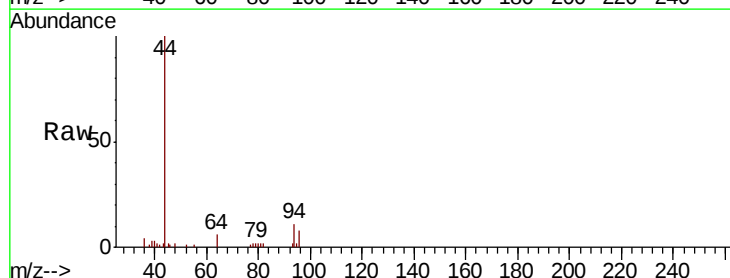
Acq: 15 Sep 2018 03:36

Tgt Ion: 94 Resp: 1088

Ion Ratio Lower Upper

94 100

96 74.6 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

600

500

400

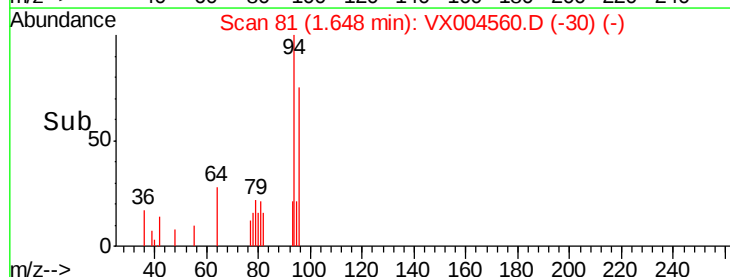
300

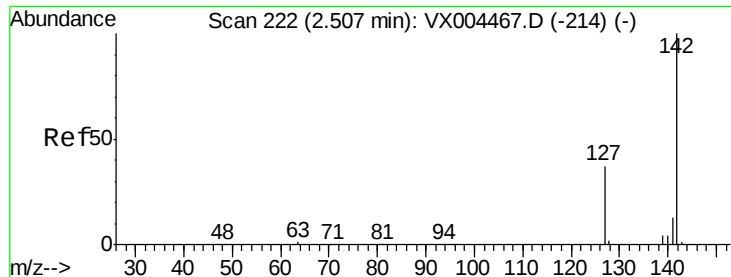
200

100

0

Time--> 1.60 1.65 1.70

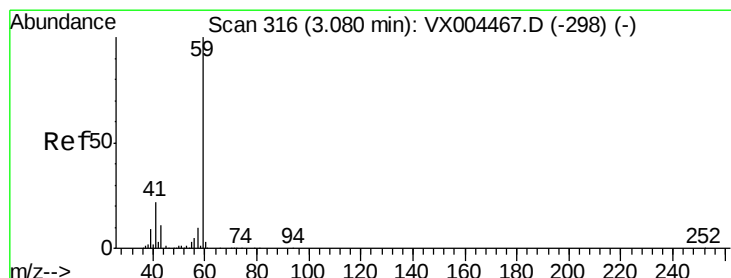
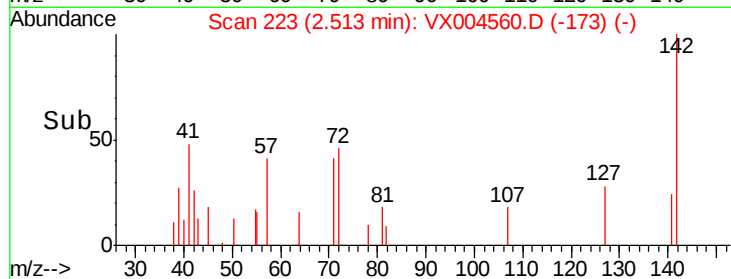
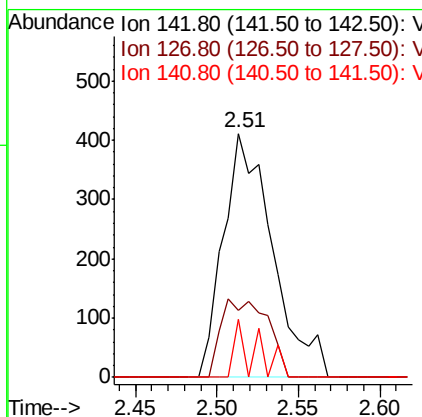
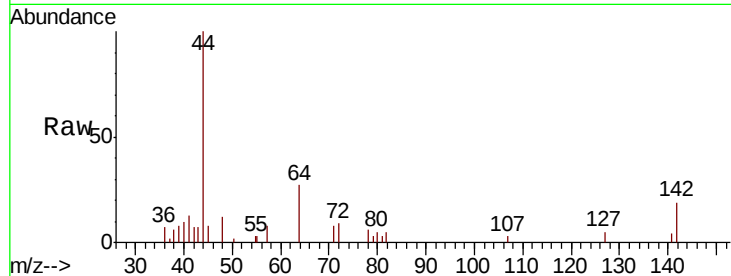




#10
Methvl Iodide
Concen: 4.47 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX004560.D
Acq: 15 Sep 2018 03:36

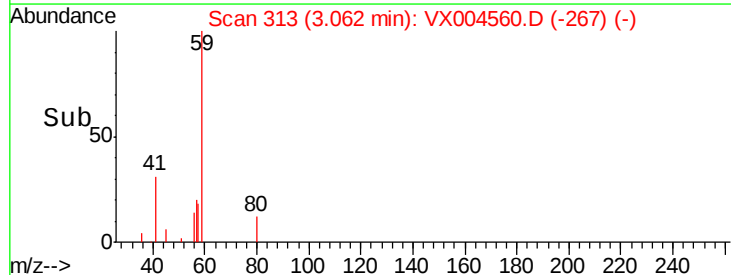
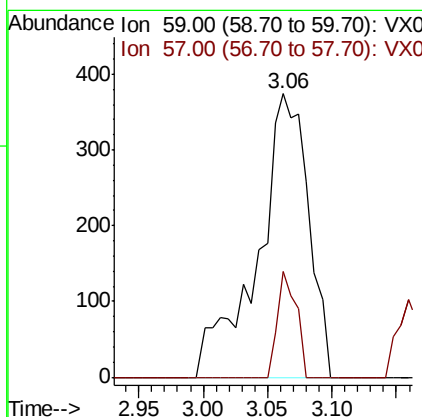
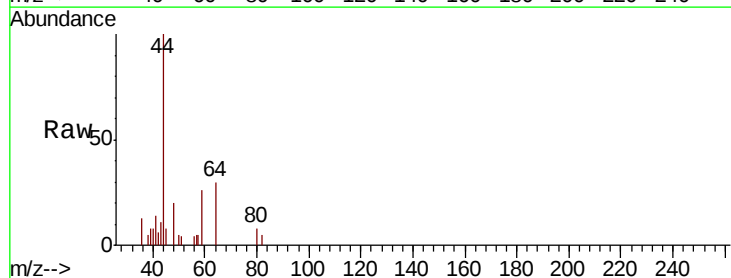
Instrument :
MSVOA_X
ClientSampleId :
S13-EB-2018-1

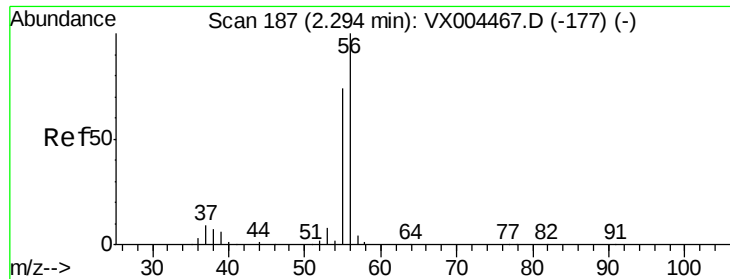
Tot Ion:142 Resp: 865
Ion Ratio Lower Upper
142 100
127 30.5 33.8 50.6#
141 4.2 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.20 ug/l
RT: 3.06 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX004560.D
Acq: 15 Sep 2018 03:36

Tgt Ion: 59 Resp: 1030
Ion Ratio Lower Upper
59 100
57 14.1 8.2 12.4#

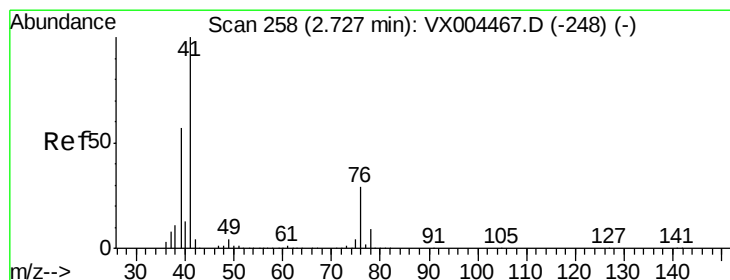
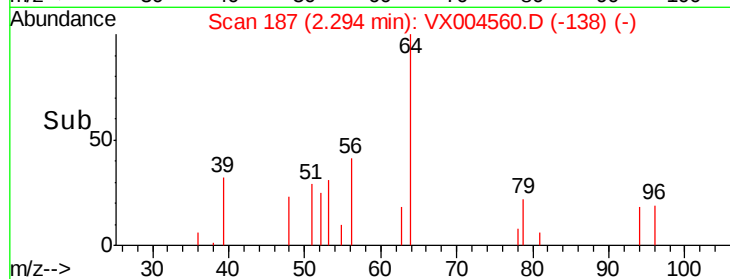
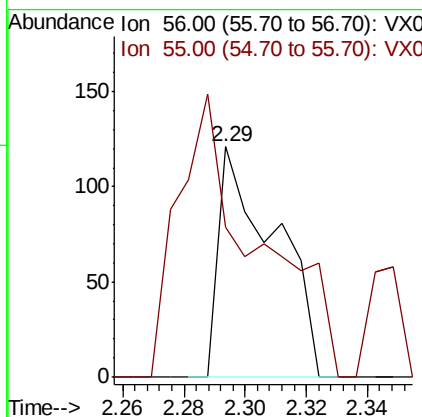
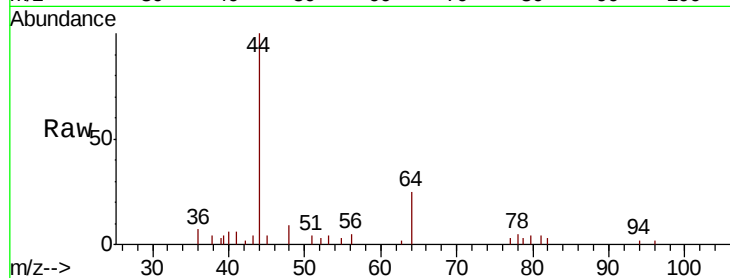




#13
Acrolein
Concen: 0.46 ug/l
RT: 2.29 min Scan# 187
Delta R.T. -0.00 min
Lab File: VX004560.D
Acq: 15 Sep 2018 03:36

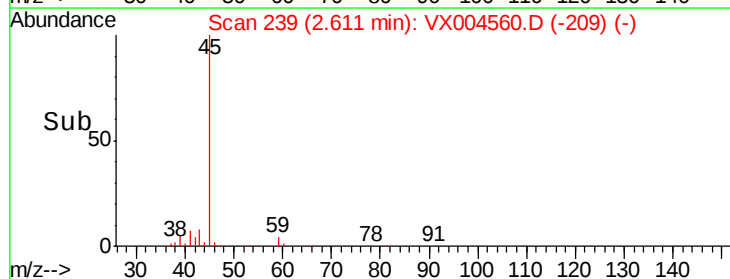
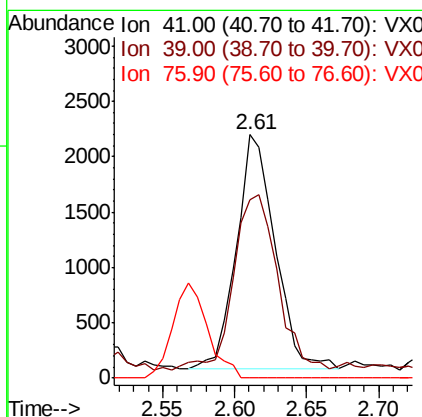
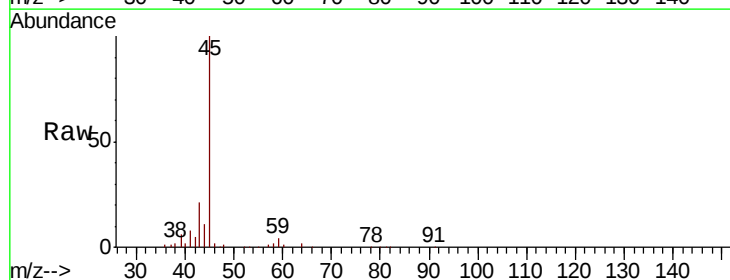
Instrument :
MSVOA_X
ClientSampleId :
S13-EB-2018-1

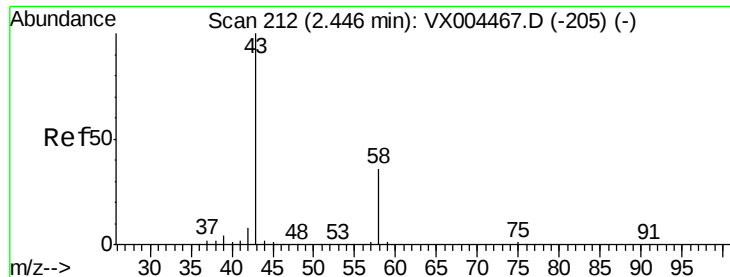
Tot Ion: 56 Resp: 154
Ion Ratio Lower Upper
56 100
55 174.0 54.7 82.1#



#14
Allyl chloride
Concen: 0.66 ug/l
RT: 2.61 min Scan# 239
Delta R.T. -0.12 min
Lab File: VX004560.D
Acq: 15 Sep 2018 03:36

Tgt Ion: 41 Resp: 3947
Ion Ratio Lower Upper
41 100
39 84.2 48.9 73.3#
76 0.0 26.7 40.1#





#16

Acetone

Concen: 10.76 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX004560.D

Acq: 15 Sep 2018 03:36

Instrument :

MSVOA_X

ClientSampleId :

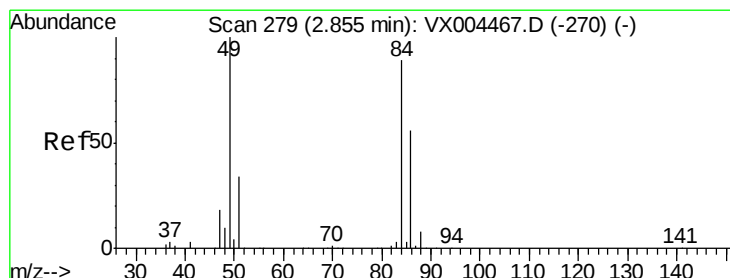
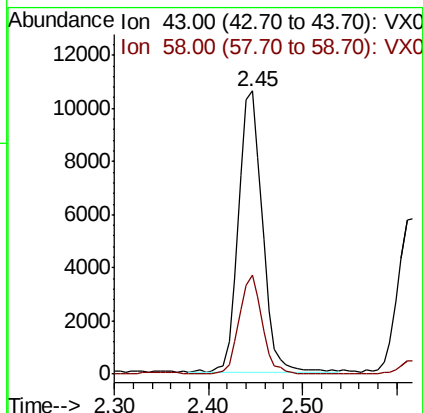
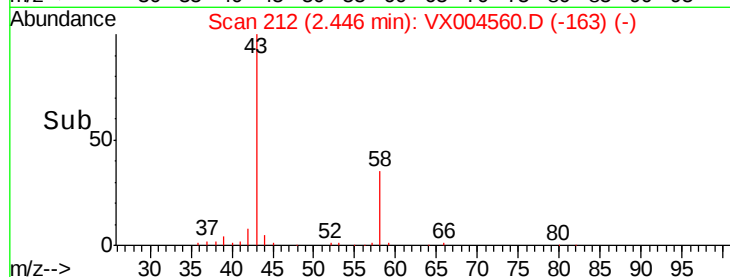
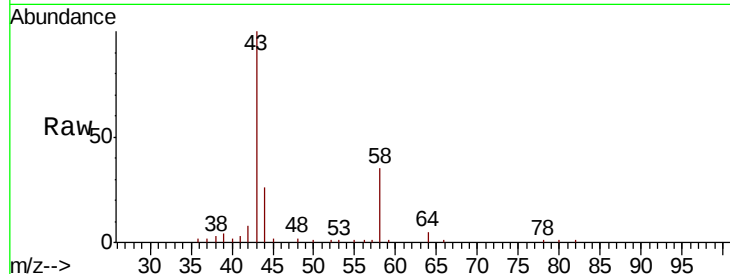
S13-EB-2018-1

Tot Ion: 43 Resp: 18843

Ion Ratio Lower Upper

43 100

58 35.1 26.2 39.4



#20

Methylene Chloride

Concen: 48.98 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX004560.D

Acq: 15 Sep 2018 03:36

Tgt Ion: 84 Resp: 175937

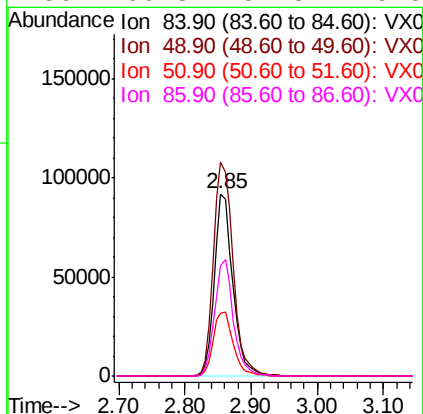
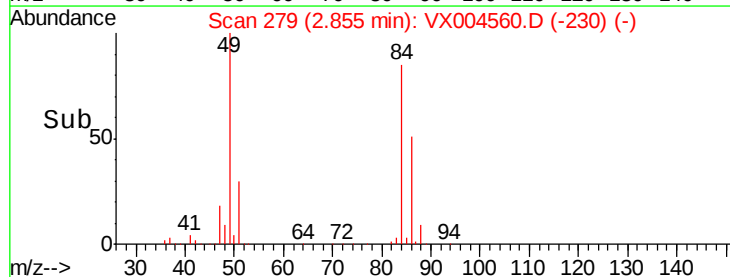
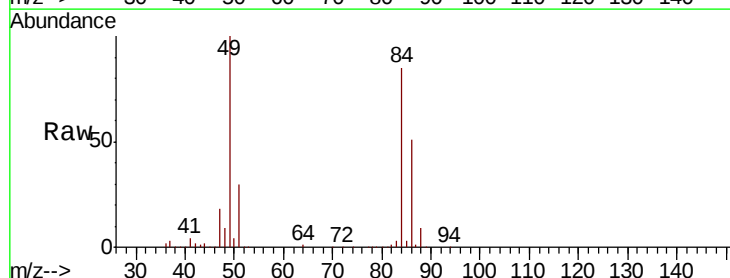
Ion Ratio Lower Upper

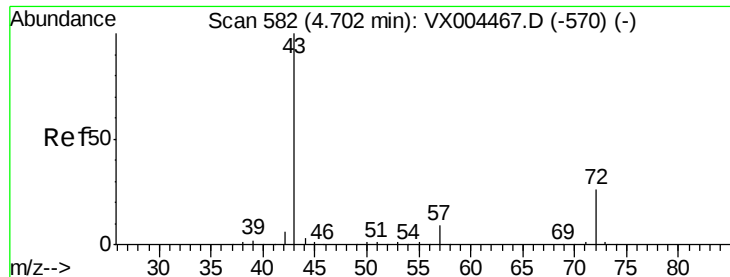
84 100

49 117.1 101.2 151.8

51 34.6 29.5 44.3

86 60.3 52.3 78.5





#25

2-Butanone

Concen: 9.49 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX004560.D

Acq: 15 Sep 2018 03:36

Instrument :

MSVOA_X

ClientSampleId :

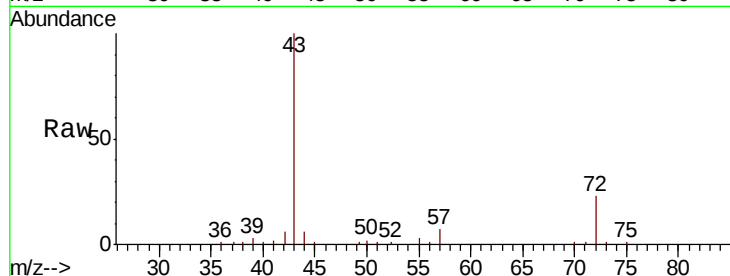
S13-EB-2018-1

Tot Ion: 43 Resp: 26444

Ion Ratio Lower Upper

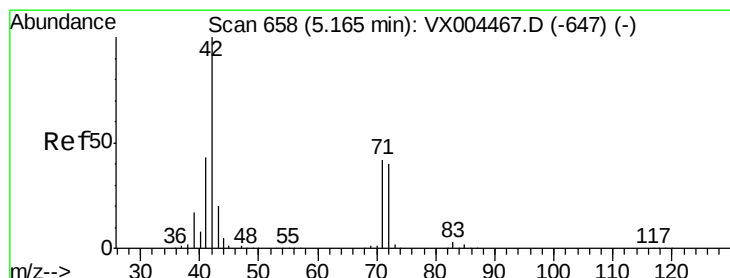
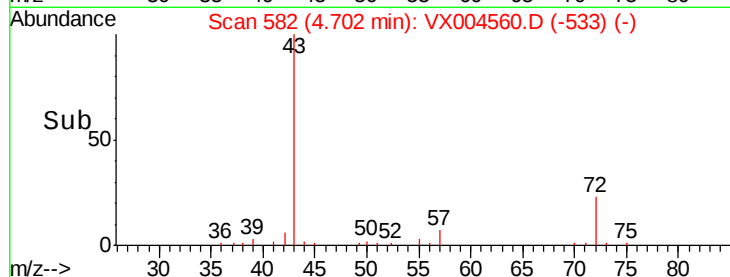
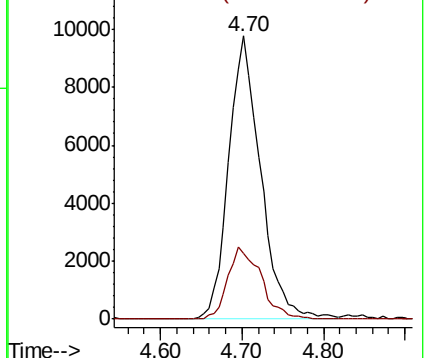
43 100

72 23.3 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: 234.34 ug/l

RT: 5.15 min Scan# 656

Delta R.T. -0.01 min

Lab File: VX004560.D

Acq: 15 Sep 2018 03:36

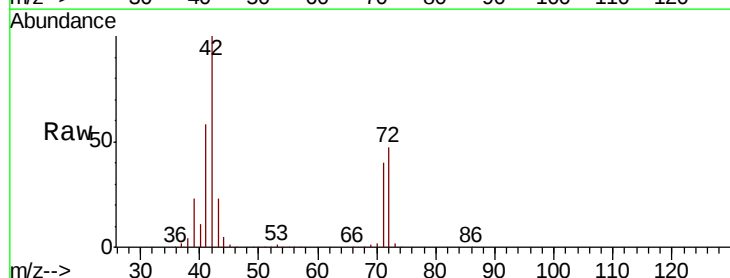
Tgt Ion: 42 Resp: 393799

Ion Ratio Lower Upper

42 100

72 48.6 37.4 56.0

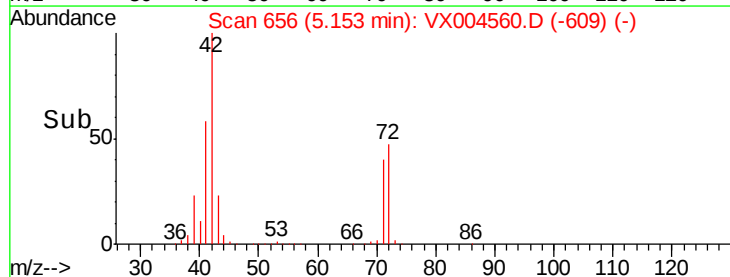
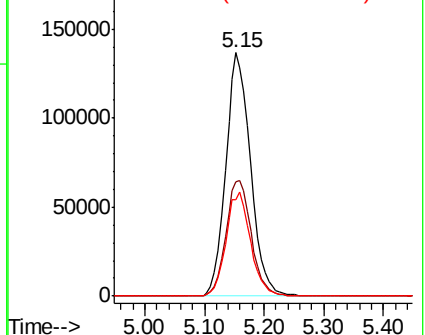
71 42.5 34.5 51.7

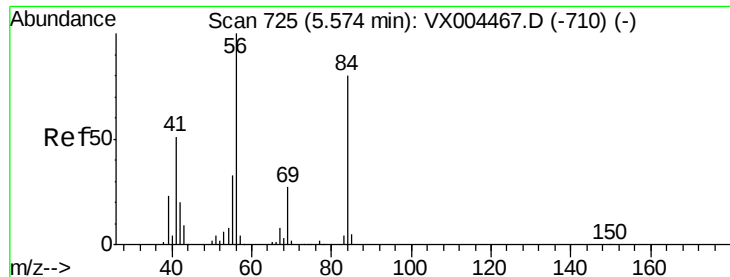


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

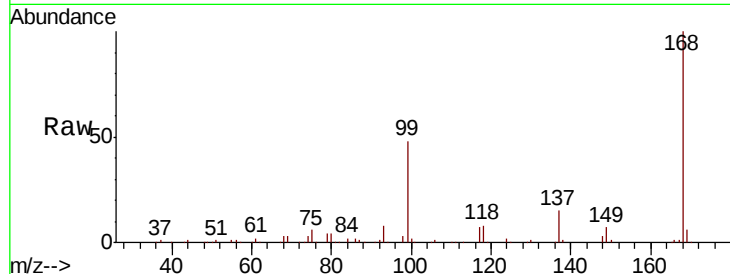




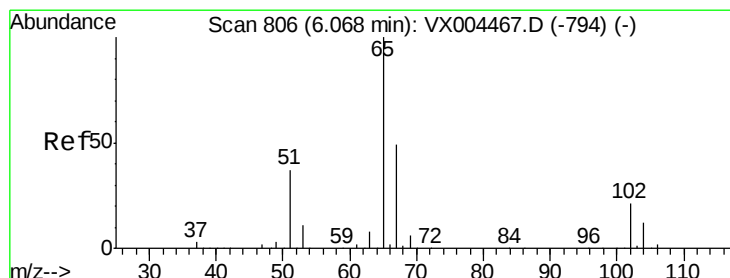
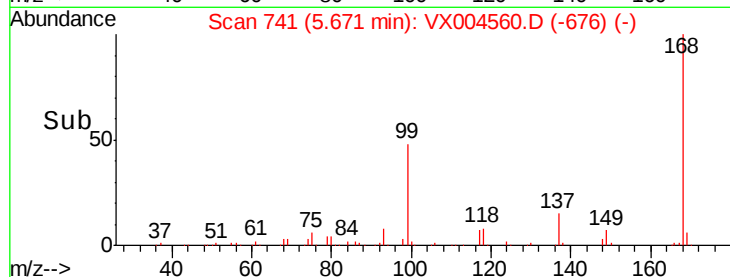
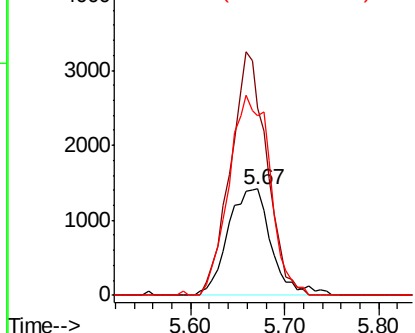
#31
Cyclohexane
Concen: 0.88 ug/l
RT: 5.67 min Scan# 741
Delta R.T. 0.10 min
Lab File: VX004560.D
Acq: 15 Sep 2018 03:36

Instrument :
MSVOA_X
ClientSampleId :
S13-EB-2018-1

Tot Ion: 56 Resp: 4551
Ion Ratio Lower Upper
56 100
69 175.9 25.4 38.2#
84 168.4 71.4 107.2#

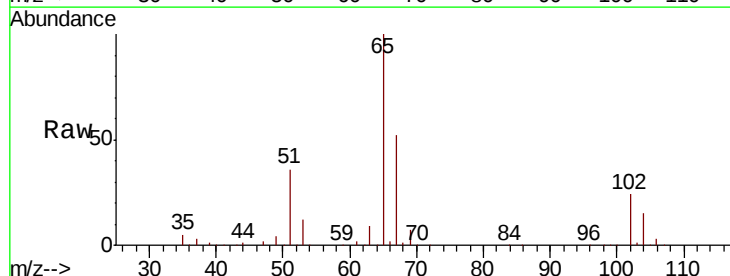


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

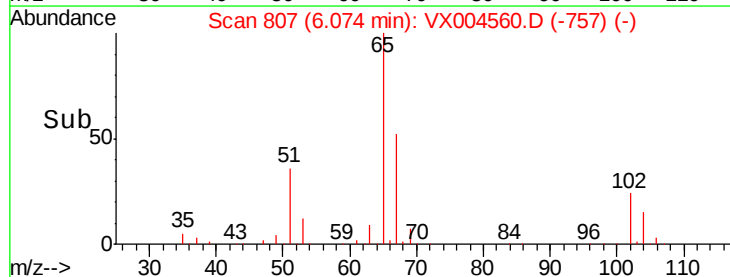
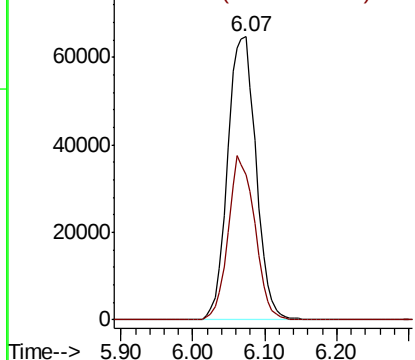


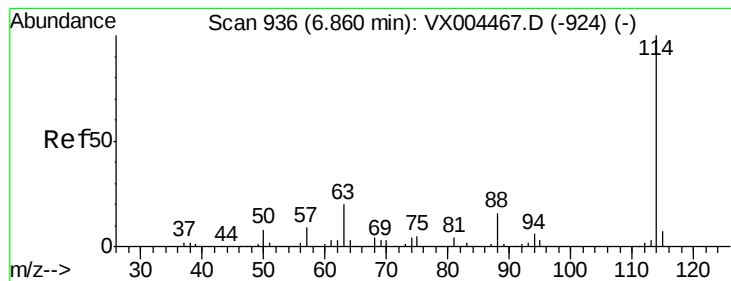
#33
1,2-Dichloroethane-d4
Concen: 49.35 ug/l
RT: 6.07 min Scan# 807
Delta R.T. 0.01 min
Lab File: VX004560.D
Acq: 15 Sep 2018 03:36

Tgt Ion: 65 Resp: 177035
Ion Ratio Lower Upper
65 100
67 54.6 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: VX004560.D

Acq: 15 Sep 2018 03:36

Instrument :

MSVOA_X

ClientSampleId :

S13-EB-2018-1

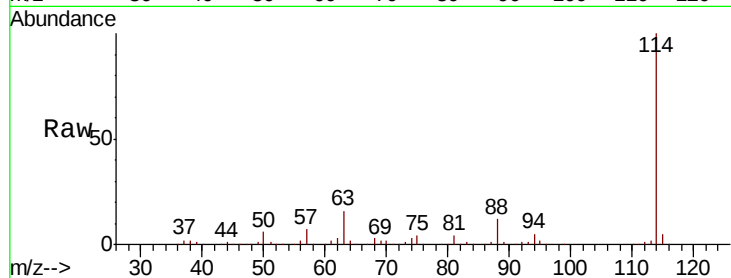
Tot Ion:114 Resp: 388273

Ion Ratio Lower Upper

114 100

63 16.1 0.0 39.0

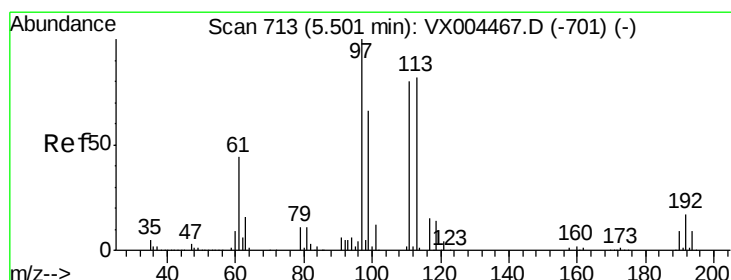
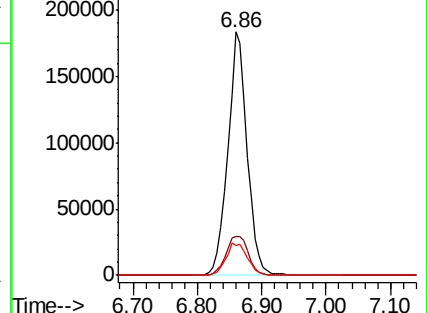
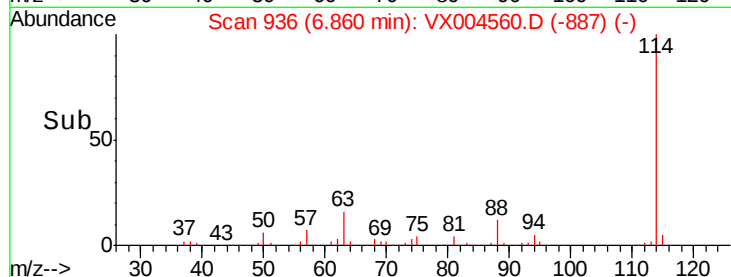
88 12.3 0.0 30.4



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: 45.04 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX004560.D

Acq: 15 Sep 2018 03:36

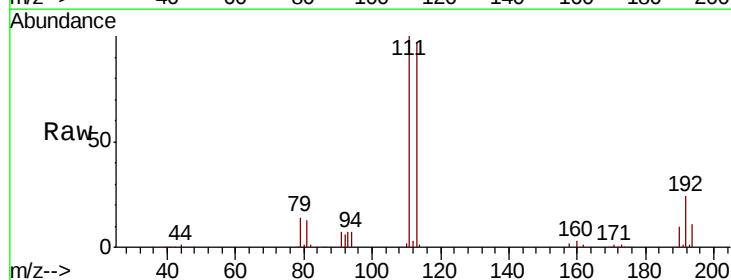
Tgt Ion:113 Resp: 160013

Ion Ratio Lower Upper

113 100

111 101.7 82.4 123.6

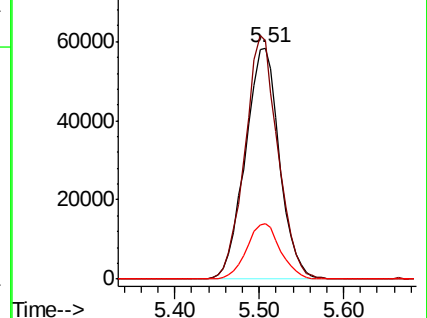
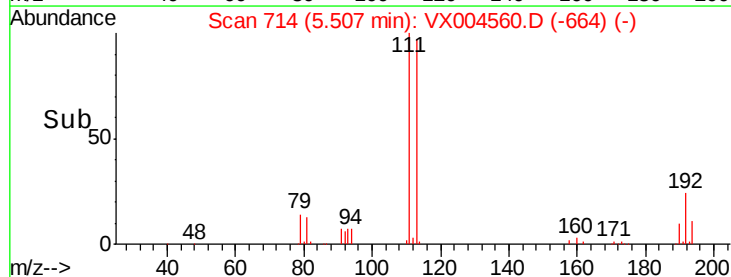
192 23.8 19.4 29.2

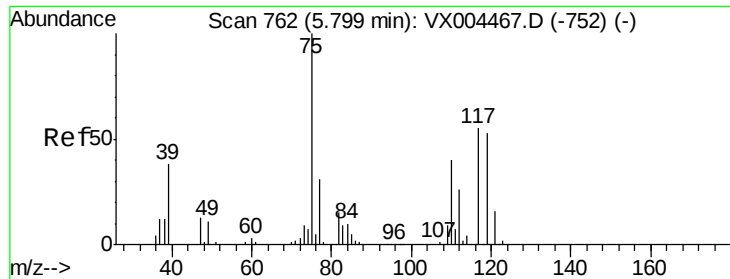


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.79 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX004560.D

Acq: 15 Sep 2018 03:36

Instrument :

MSVOA_X

ClientSampled :

S13-EB-2018-1

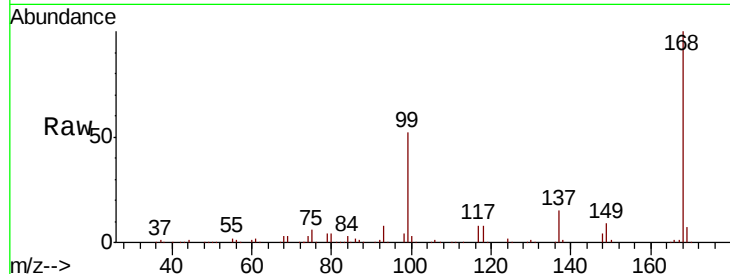
Tot Ion: 75 Resp: 17867

Ion Ratio Lower Upper

75 100

110 8.0 18.0 54.0#

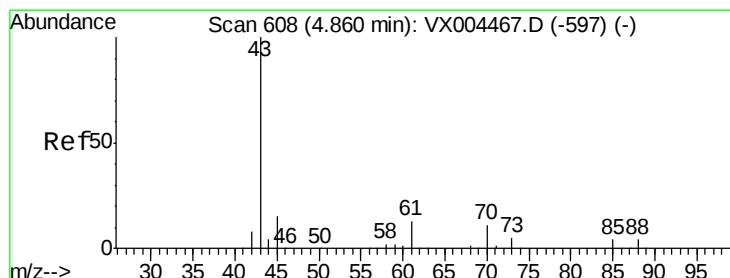
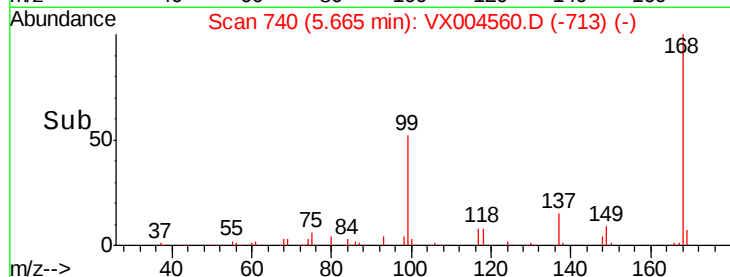
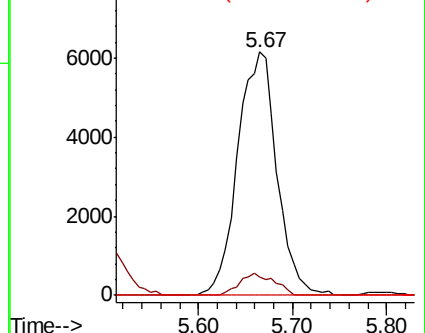
77 0.0 24.6 36.8#



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



#37

Ethyl Acetate

Concen: 4.93 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.16 min

Lab File: VX004560.D

Acq: 15 Sep 2018 03:36

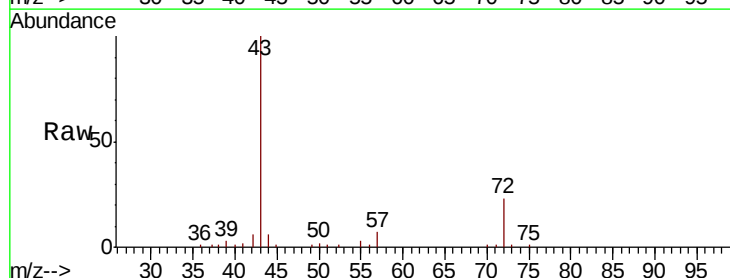
Tgt Ion: 43 Resp: 26444

Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

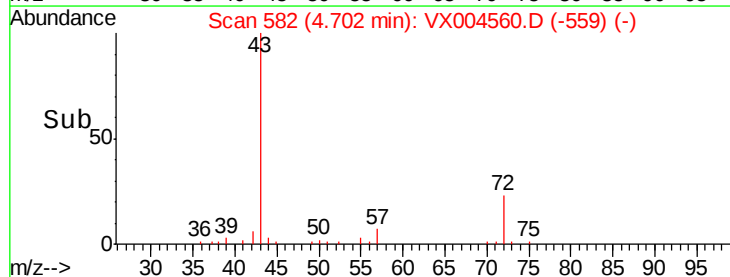
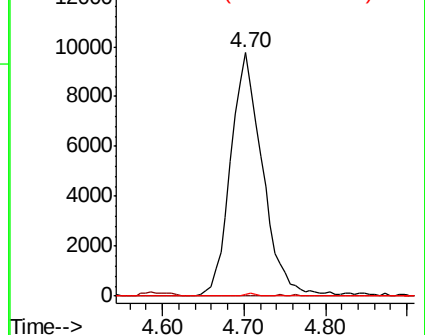
70 0.0 9.0 13.6#

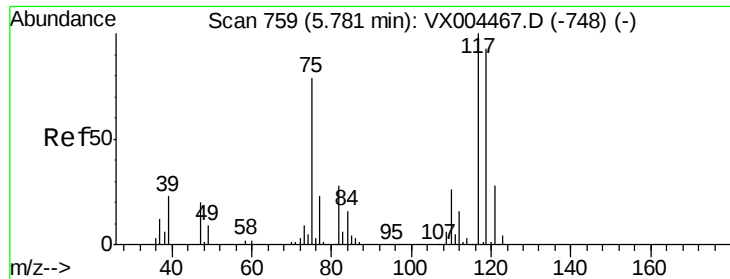


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 5.14 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX004560.D

Acq: 15 Sep 2018 03:36

Instrument :

MSVOA_X

ClientSampleId :

S13-EB-2018-1

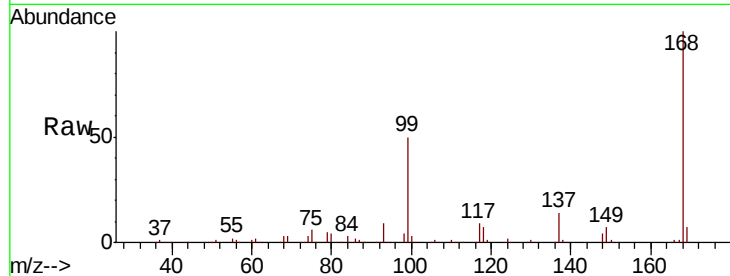
Tot Ion:117 Resp: 23673

Ion Ratio Lower Upper

117 100

119 6.2 78.8 118.2#

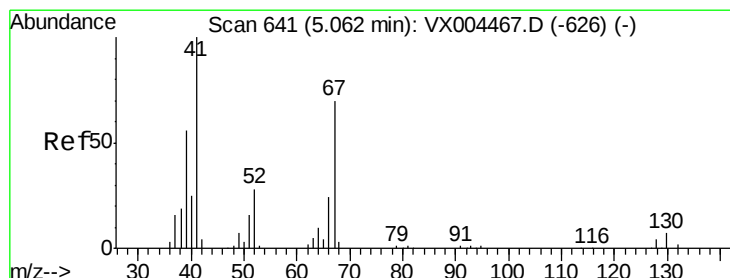
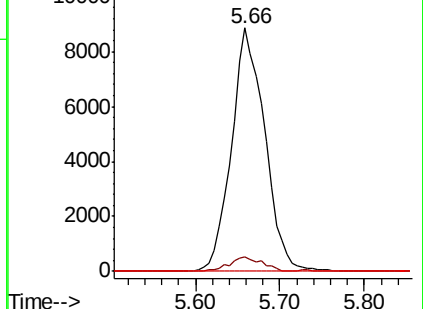
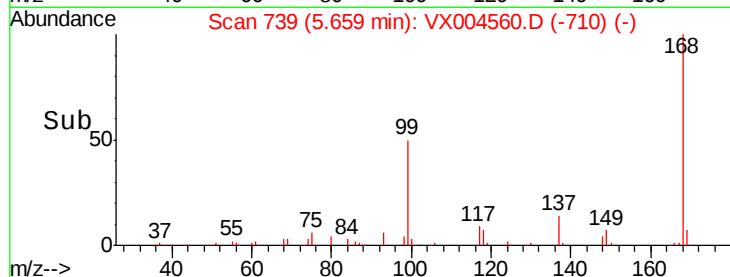
121 0.0 24.9 37.3#



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



#41

Methacrylonitrile

Concen: 78.73 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.09 min

Lab File: VX004560.D

Acq: 15 Sep 2018 03:36

Tgt Ion: 41 Resp: 232566

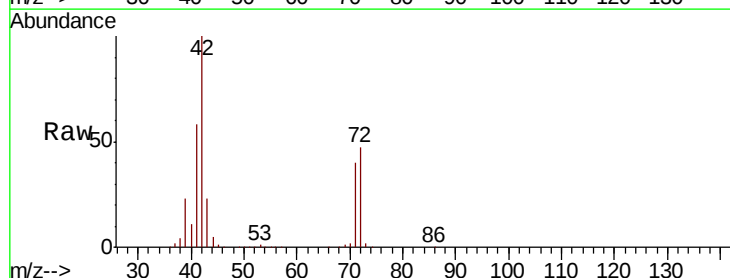
Ion Ratio Lower Upper

41 100

39 40.5 42.4 63.6#

67 0.0 59.2 88.8#

52 0.2 23.0 34.4#

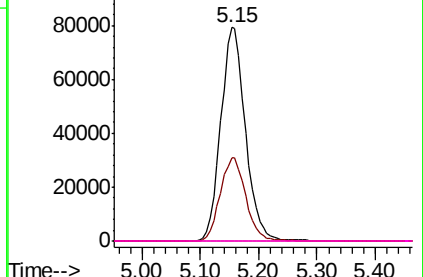
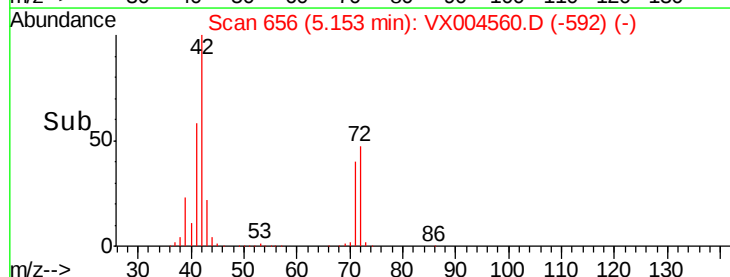


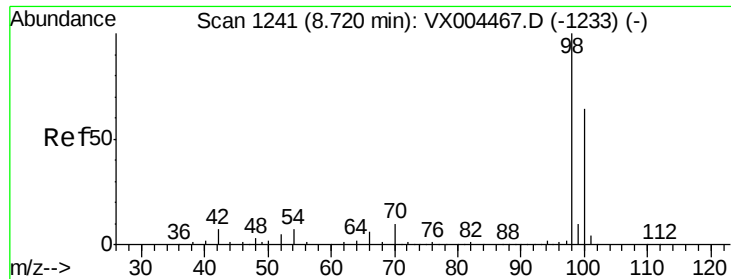
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

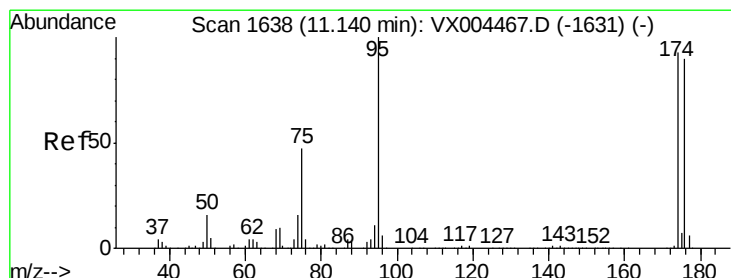
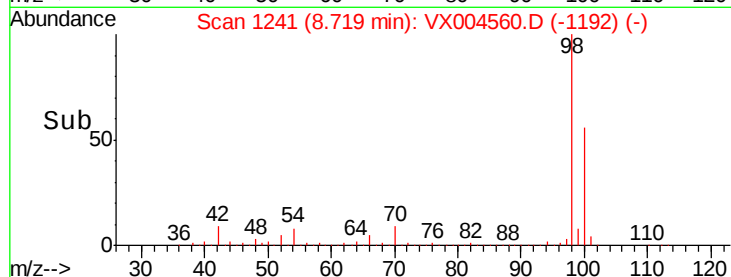
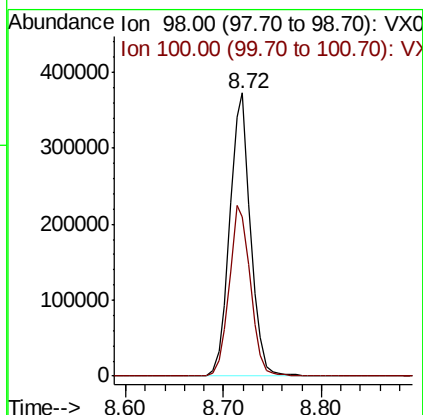
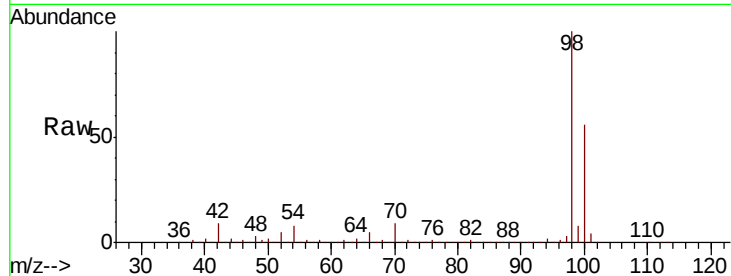




#50
Toluene-d8
Concen: 45.93 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VX004560.D
Acq: 15 Sep 2018 03:36

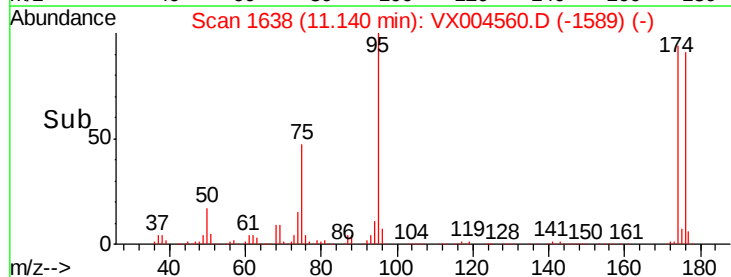
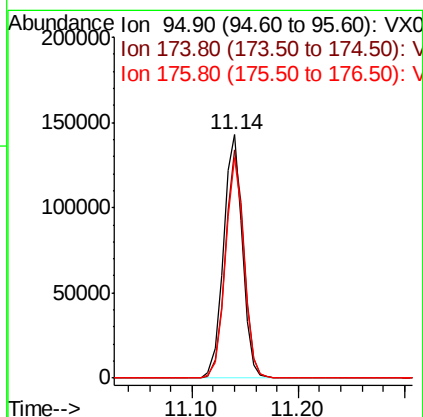
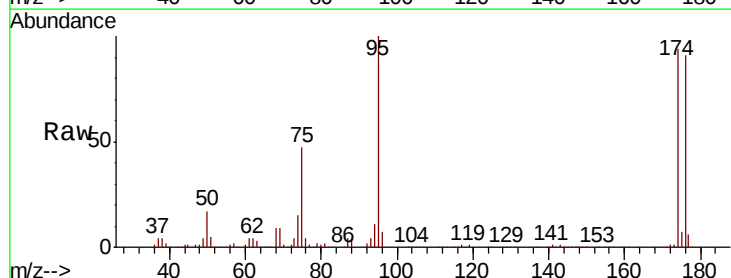
Instrument :
MSVOA_X
ClientSampleId :
S13-EB-2018-1

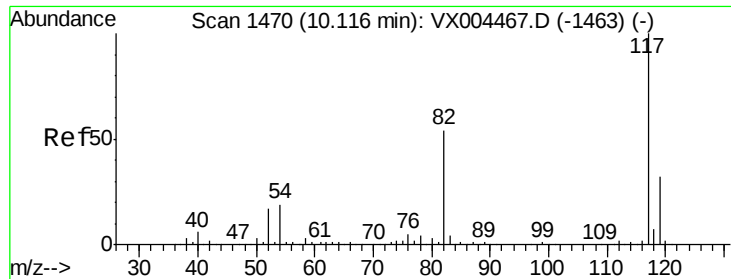
Tot Ion: 98 Resp: 547222
Ion Ratio Lower Upper
98 100
100 61.6 52.9 79.3



#62
4-Bromofluorobenzene
Concen: 41.66 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004560.D
Acq: 15 Sep 2018 03:36

Tgt Ion: 95 Resp: 177201
Ion Ratio Lower Upper
95 100
174 93.5 0.0 185.2
176 89.7 0.0 178.6

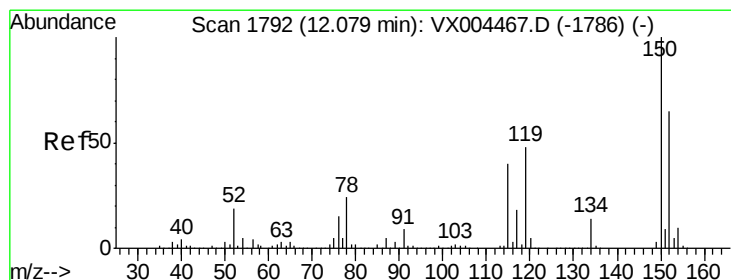
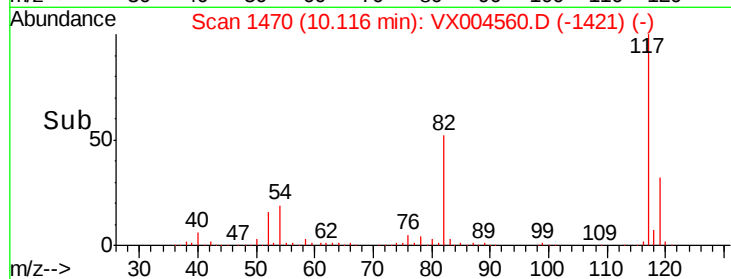
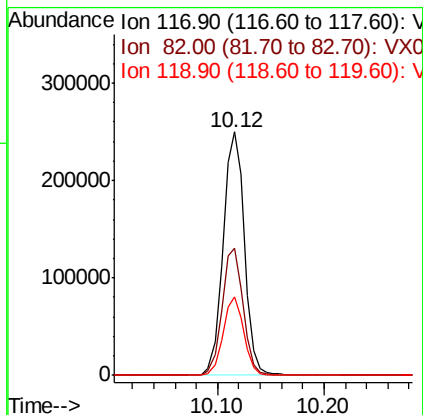
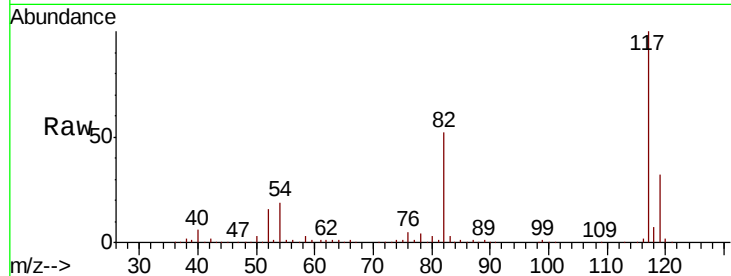




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004560.D
Acq: 15 Sep 2018 03:36

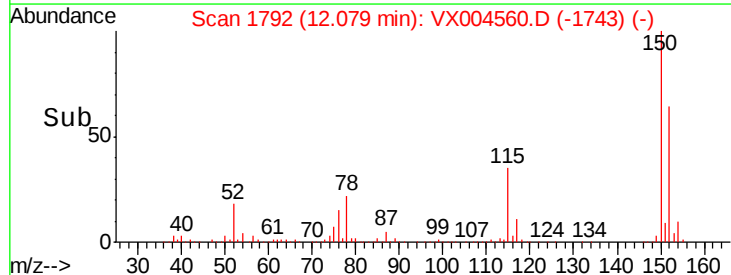
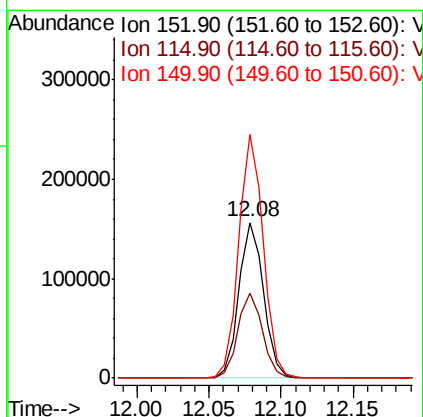
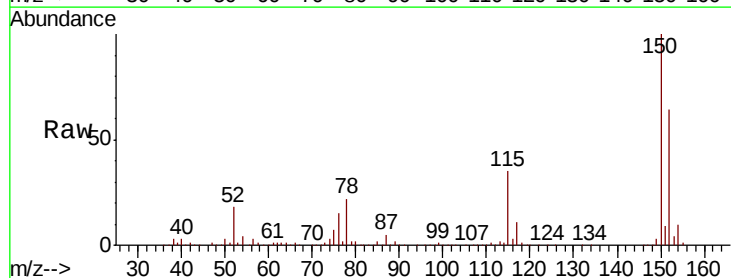
Instrument :
MSVOA_X
ClientSampled :
S13-EB-2018-1

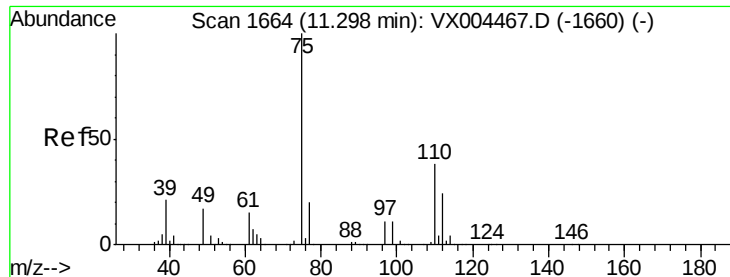
Tot Ion:117 Resp: 348532
Ion Ratio Lower Upper
117 100
82 52.3 47.8 71.6
119 32.2 29.3 43.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX004560.D
Acq: 15 Sep 2018 03:36

Tgt Ion:152 Resp: 186426
Ion Ratio Lower Upper
152 100
115 54.7 39.0 117.0
150 155.6 0.0 351.0

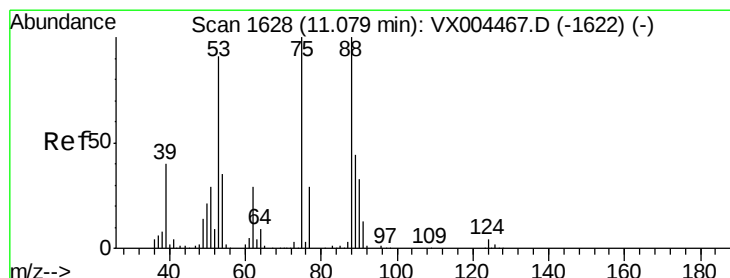
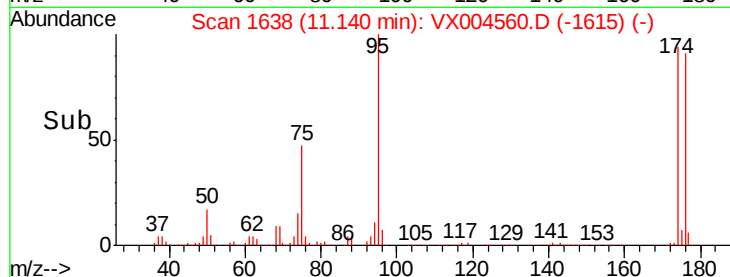
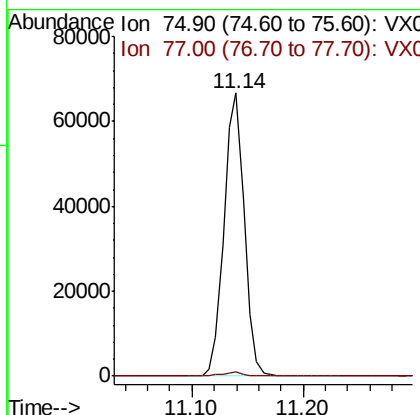
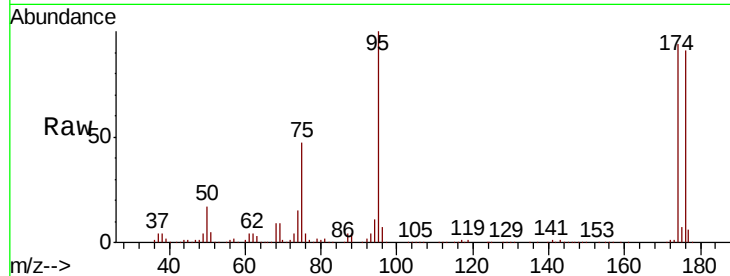




#76
 1,2,3-Trichloropropane
 Concen: 22.37 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.16 min
 Lab File: VX004560.D
 Acq: 15 Sep 2018 03:36

Instrument :
 MSVOA_X
 ClientSampleId :
 S13-EB-2018-1

Tot Ion: 75 Resp: 83898
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.2 60.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.30 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.06 min
 Lab File: VX004560.D
 Acq: 15 Sep 2018 03:36

Tgt Ion: 75 Resp: 83898
 Ion Ratio Lower Upper
 75 100
 53 0.1 80.1 120.1#
 89 0.0 37.2 55.8#

