

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090618\
 Data File : VX004388.D
 Acq On : 06 Sep 2018 16:39
 Operator : JC/MD
 Sample : PB112611TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB112611TB

Quant Time: Sep 07 04:46:24 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	308955	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	498066	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	474362	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	240792	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	213778	53.09	ug/l	0.00
Spiked Amount			Recovery	=	106.18%	
35) Dibromofluoromethane	5.50	113	185875	50.16	ug/l	0.00
Spiked Amount			Recovery	=	100.32%	
50) Toluene-d8	8.71	98	714363	51.08	ug/l	0.00
Spiked Amount			Recovery	=	102.16%	
62) 4-Bromofluorobenzene	11.14	95	251424	48.18	ug/l	0.00
Spiked Amount			Recovery	=	96.36%	

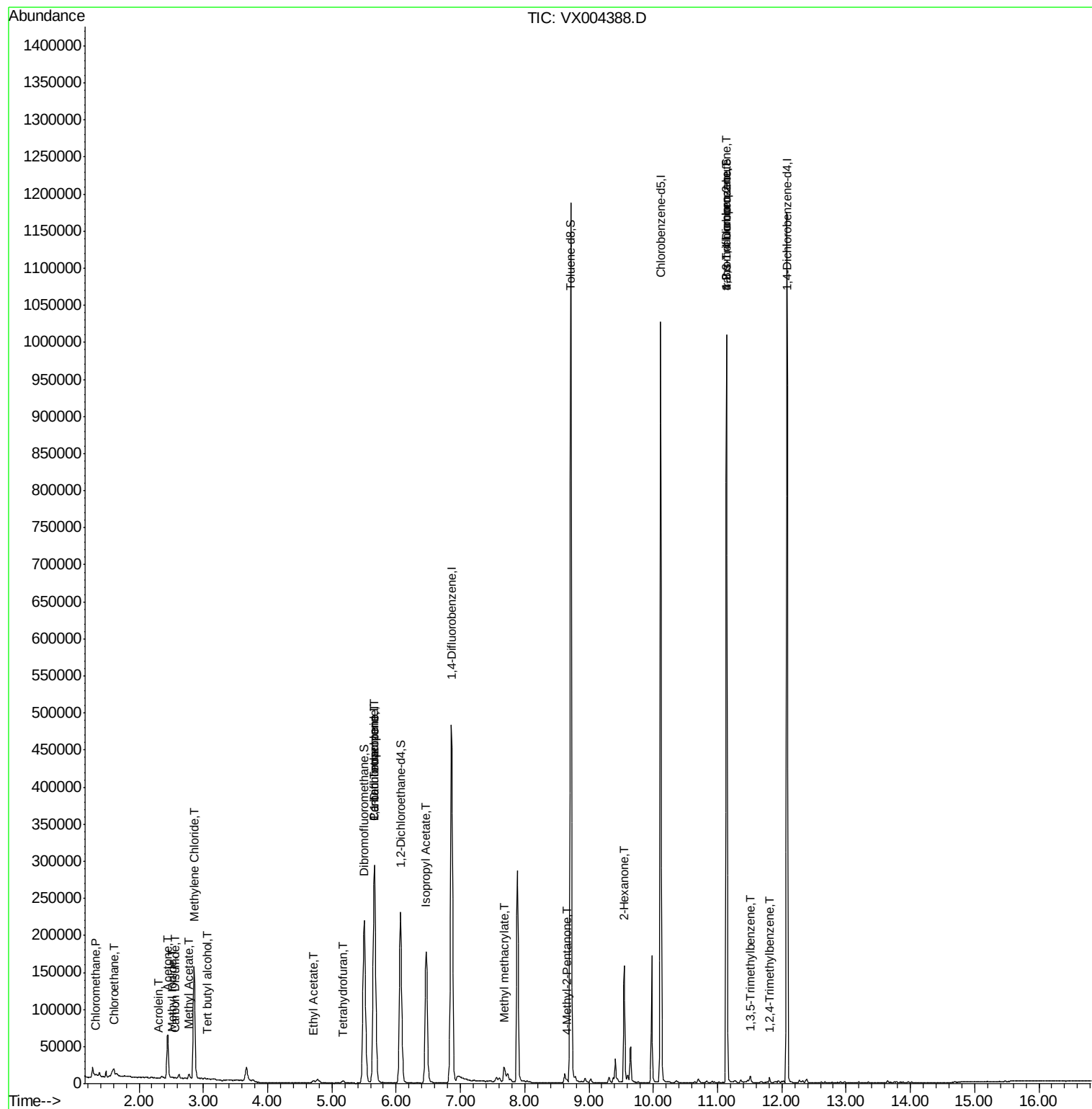
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1198	0.59	ug/l	98
5) Bromomethane	1.64	94	1877	Below Cal		92
6) Chloroethane	1.60	64	6089	2.83	ug/l #	72
10) Methyl Iodide	2.51	142	1710	4.66	ug/l	95
11) Tert butyl alcohol	3.07	59	1350	1.57	ug/l #	91
13) Acrolein	2.29	56	338	1.63	ug/l #	34
16) Acetone	2.45	43	63863	31.80	ug/l	98
17) Carbon Disulfide	2.56	76	1346	0.94	ug/l #	86
18) Methyl Acetate	2.78	43	6996	1.17	ug/l	93
20) Methylene Chloride	2.85	84	72362	18.67	ug/l	97
25) 2-Butanone	4.71	43	6433	Below Cal		99
29) Tetrahydrofuran	5.17	42	2427	1.40	ug/l	100
36) 1,1-Dichloropropene	5.67	75	20240	3.61	ug/l #	49
37) Ethyl Acetate	4.71	43	6433	1.17	ug/l #	67
38) Carbon Tetrachloride	5.67	117	26492	5.03	ug/l #	15
43) Isopropyl Acetate	6.47	43	232073	27.43	ug/l	100
48) Methyl methacrylate	7.69	41	9661	2.13	ug/l #	18
51) 4-Methyl-2-Pentanone	8.65	43	2262	0.37	ug/l #	70
59) 2-Hexanone	9.55	43	16214	3.46	ug/l #	57
76) 1,2,3-Trichloropropane	11.14	75	118800	24.26	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	3364	0.26	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.14	75	118800	78.71	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	2691	0.20	ug/l	94
94) Hexachlorobutadiene	13.78	225	266	Below Cal		88

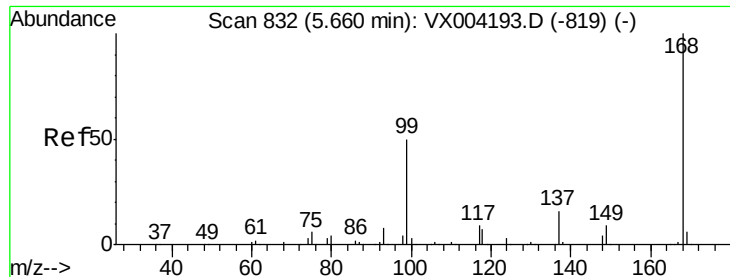
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 23 05:39:44 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX004388.D

Acq: 06 Sep 2018 16:39

Instrument :

MSVOA_X

ClientSampleId :

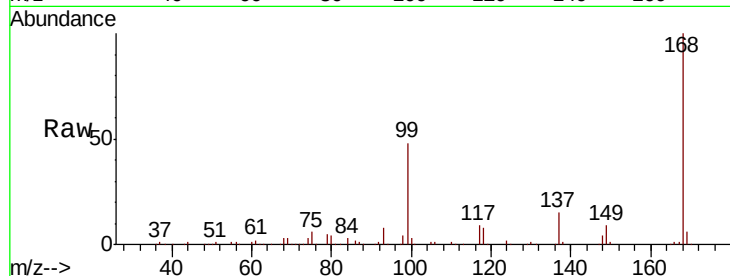
PB112611TB

Tot Ion:168 Resp: 308955

Ion Ratio Lower Upper

168 100

99 48.4 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

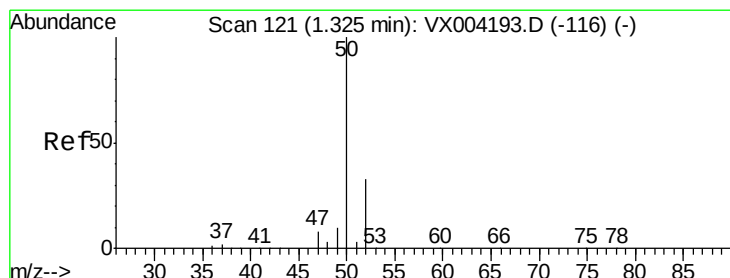
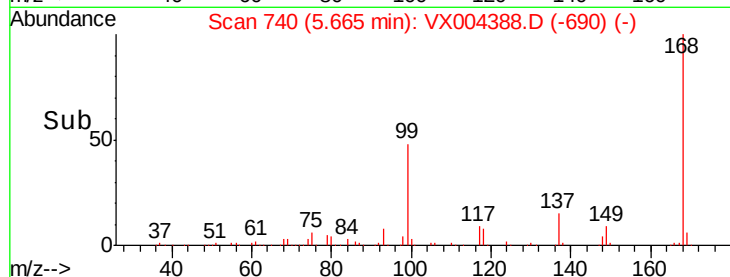
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.59 ug/l

RT: 1.32 min Scan# 27

Delta R.T. -0.01 min

Lab File: VX004388.D

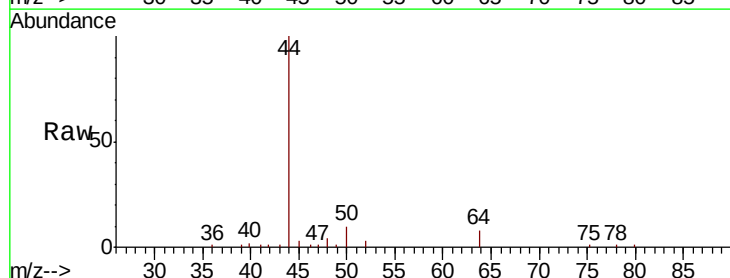
Acq: 06 Sep 2018 16:39

Tgt Ion: 50 Resp: 1198

Ion Ratio Lower Upper

50 100

52 33.8 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1000

800

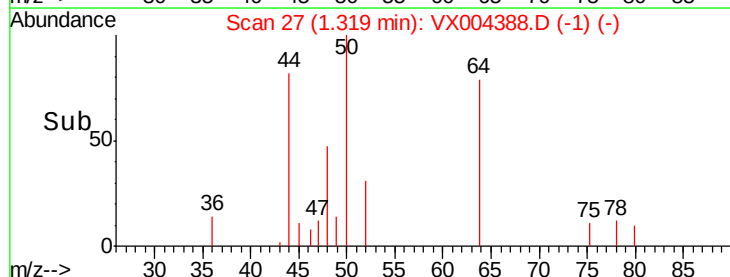
600

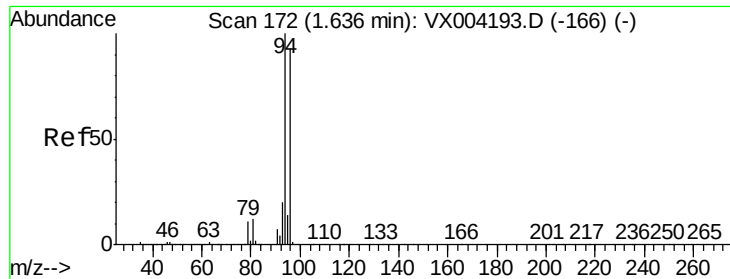
400

200

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX004388.D

Acq: 06 Sep 2018 16:39

Instrument :

MSVOA_X

ClientSampleId :

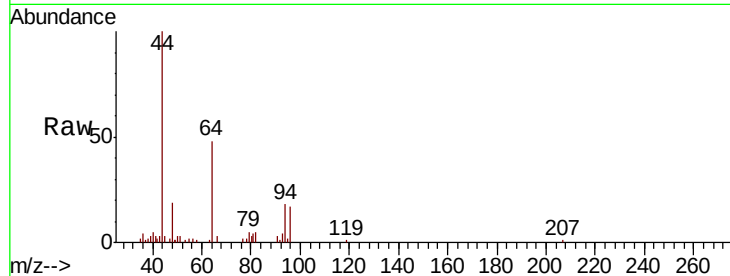
PB112611TB

Tot Ion: 94 Resp: 1877

Ion Ratio Lower Upper

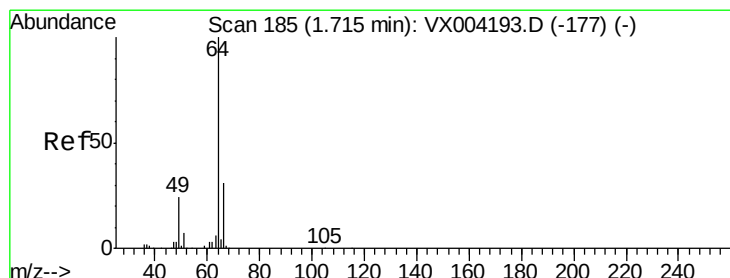
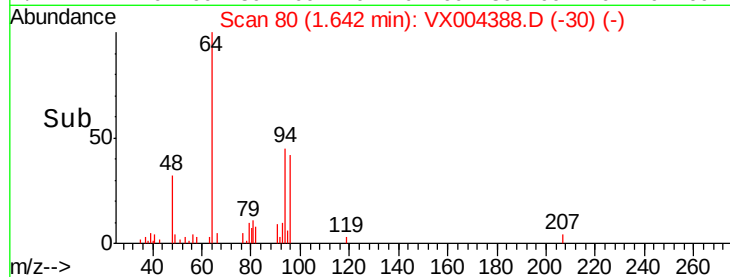
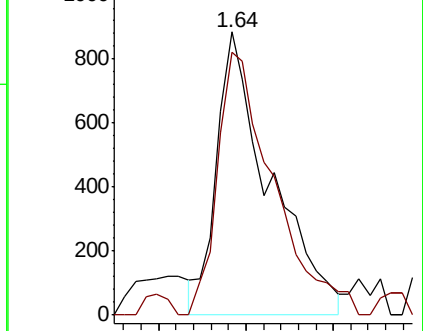
94 100

96 100.4 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 2.83 ug/l

RT: 1.60 min Scan# 73

Delta R.T. -0.12 min

Lab File: VX004388.D

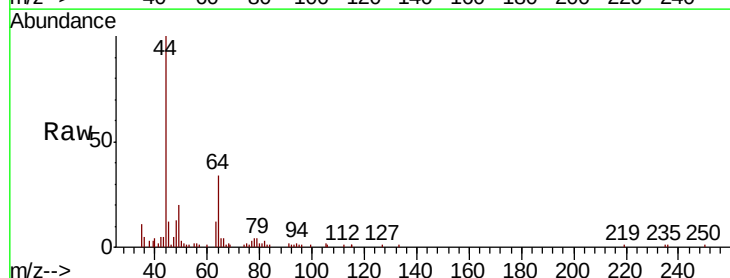
Acq: 06 Sep 2018 16:39

Tgt Ion: 64 Resp: 6089

Ion Ratio Lower Upper

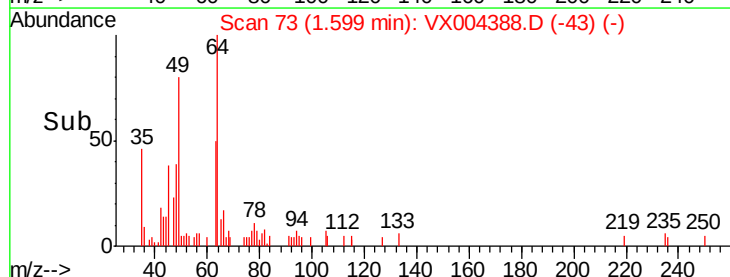
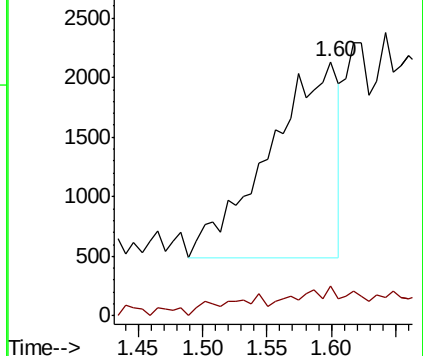
64 100

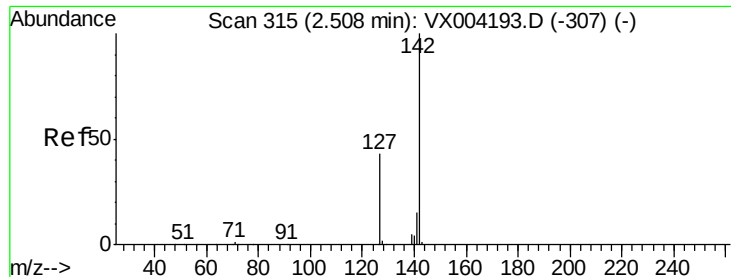
66 15.3 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

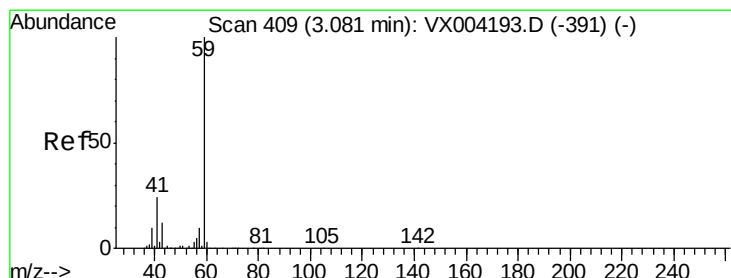
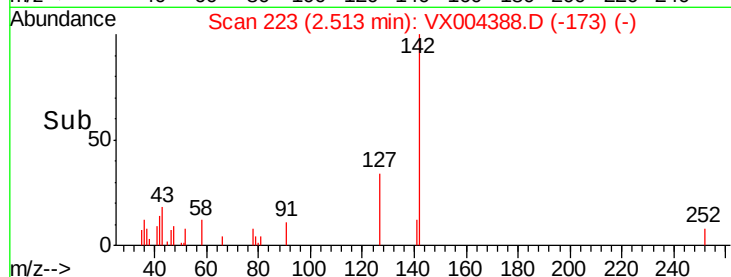
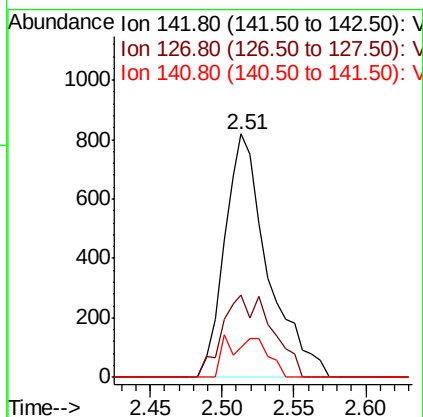
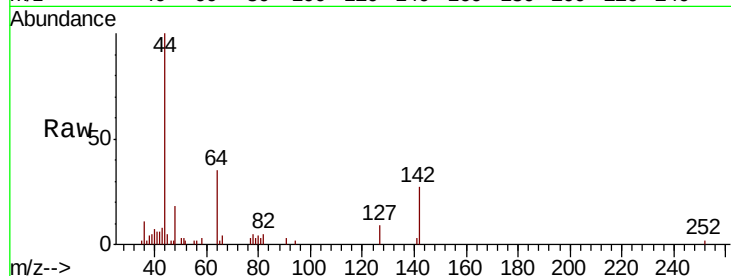




#10
Methvl Iodide
Concen: 4.66 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX004388.D
Acq: 06 Sep 2018 16:39

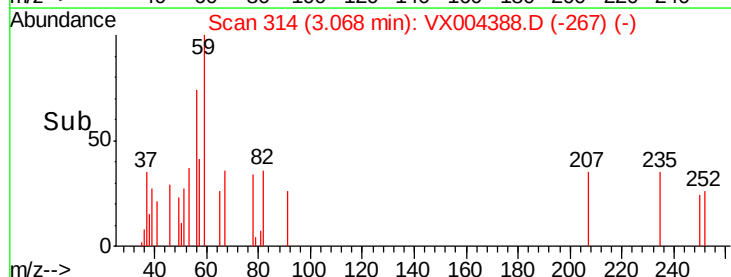
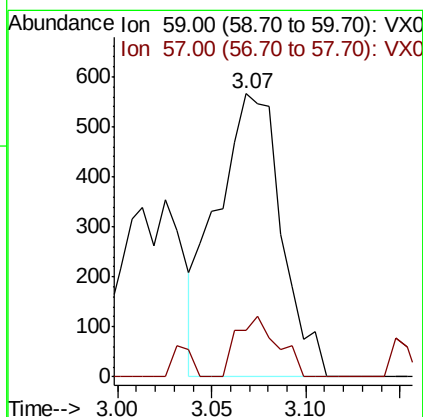
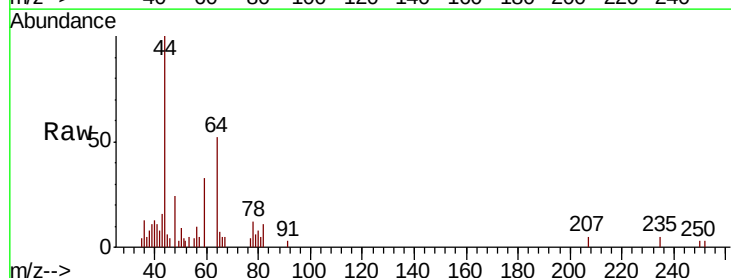
Instrument :
MSVOA_X
ClientSampled :
PB112611TB

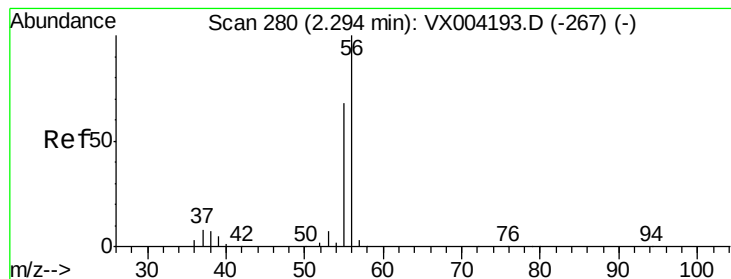
Tot Ion:142 Resp: 1710
Ion Ratio Lower Upper
142 100
127 38.8 33.8 50.6
141 15.1 11.4 17.0



#11
Tert butyl alcohol
Concen: 1.57 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX004388.D
Acq: 06 Sep 2018 16:39

Tgt Ion: 59 Resp: 1350
Ion Ratio Lower Upper
59 100
57 13.6 8.2 12.4#





#13

Acrolein

Concen: 1.63 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX004388.D

Acq: 06 Sep 2018 16:39

Instrument :

MSVOA_X

ClientSampleId :

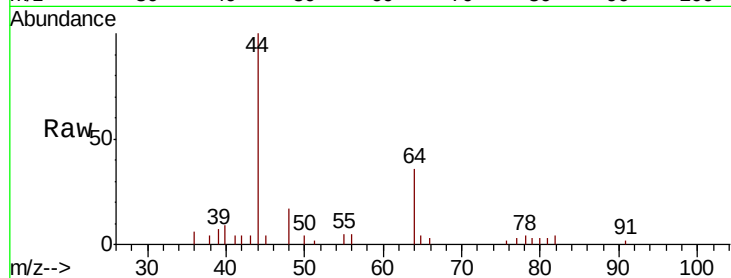
PB112611TB

Tot Ion: 56 Resp: 338

Ion Ratio Lower Upper

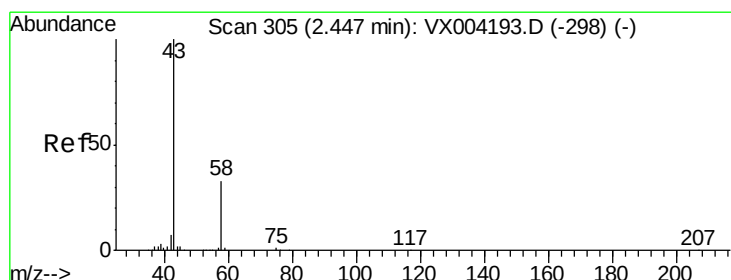
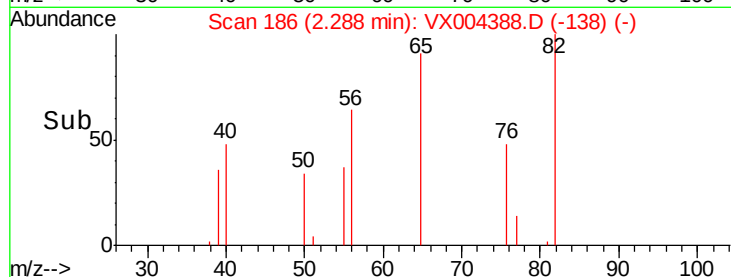
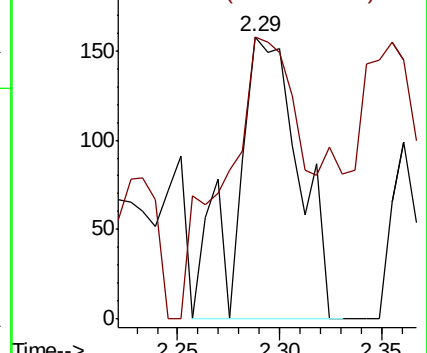
56 100

55 122.2 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 31.80 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004388.D

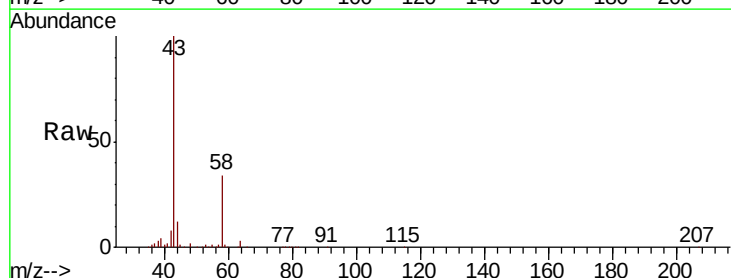
Acq: 06 Sep 2018 16:39

Tgt Ion: 43 Resp: 63863

Ion Ratio Lower Upper

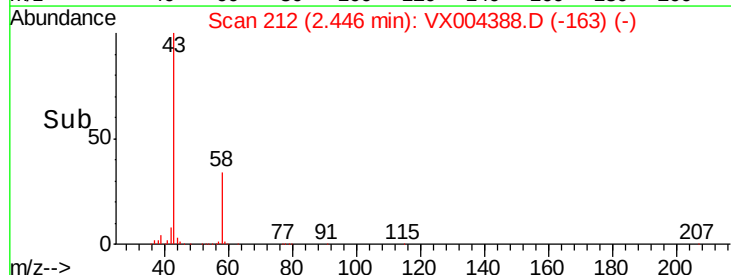
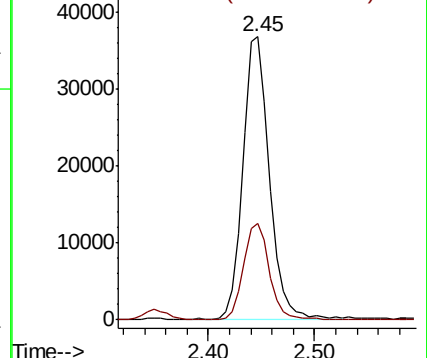
43 100

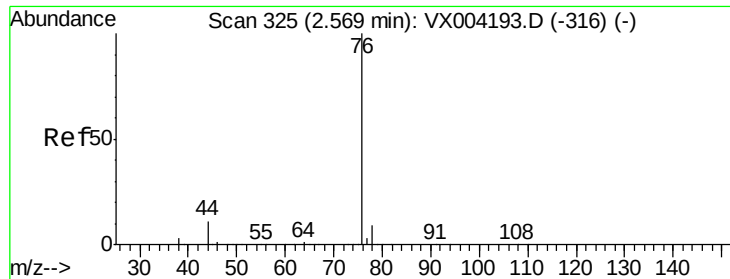
58 34.1 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

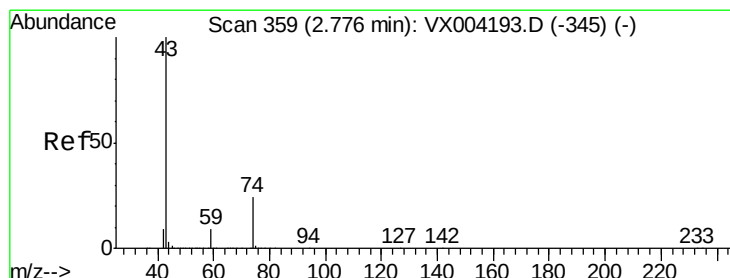
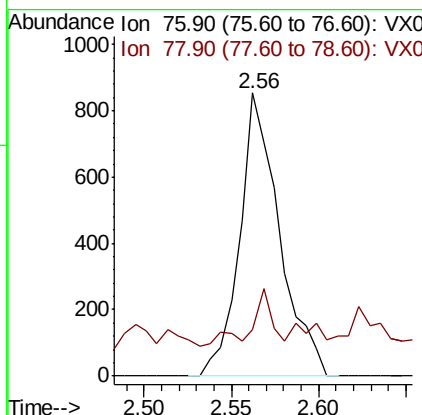
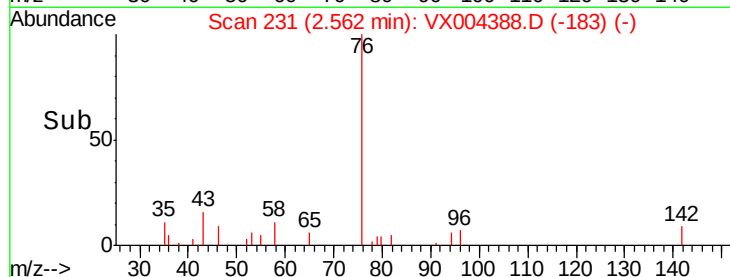
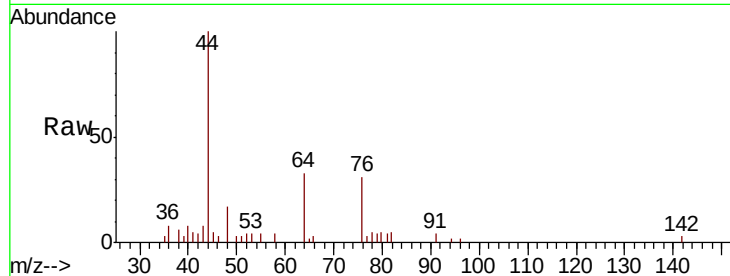




#17
Carbon Disulfide
Concen: 0.94 ug/l
RT: 2.56 min Scan# 231
Delta R.T. -0.01 min
Lab File: VX004388.D
Acq: 06 Sep 2018 16:39

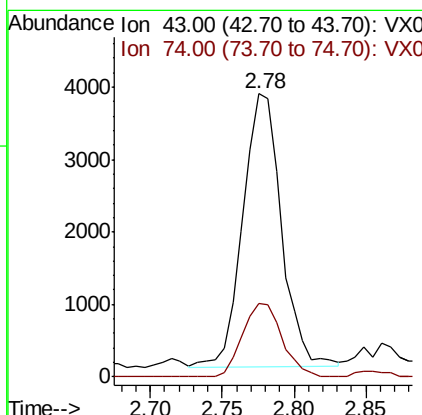
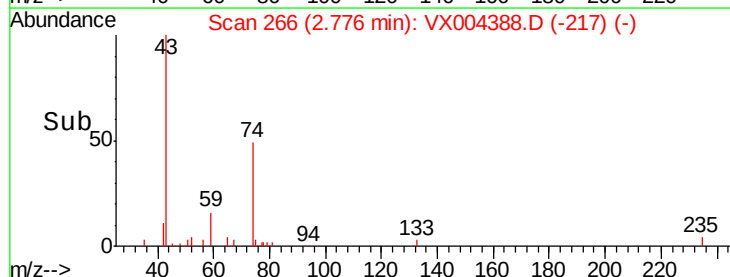
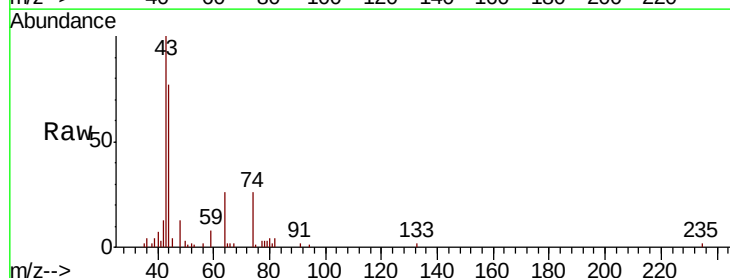
Instrument :
MSVOA_X
ClientSampleId :
PB112611TB

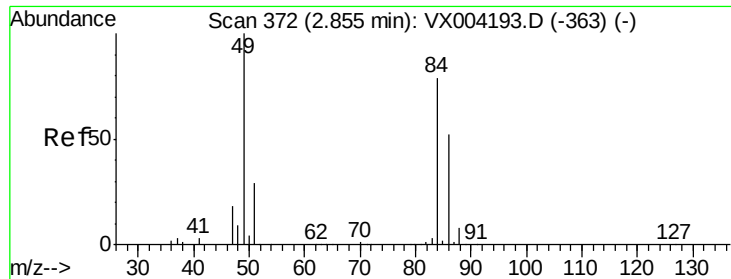
Tot Ion: 76 Resp: 1346
Ion Ratio Lower Upper
76 100
78 3.8 7.0 10.6#



#18
Methyl Acetate
Concen: 1.17 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX004388.D
Acq: 06 Sep 2018 16:39

Tgt Ion: 43 Resp: 6996
Ion Ratio Lower Upper
43 100
74 27.6 19.4 29.2

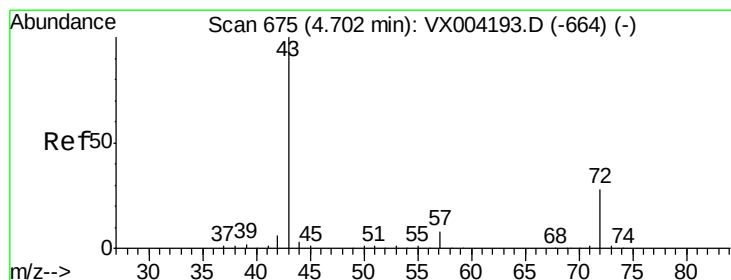
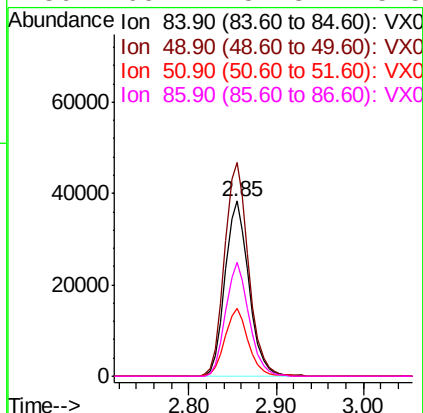
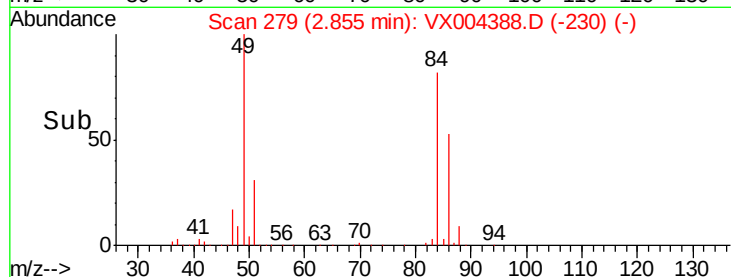
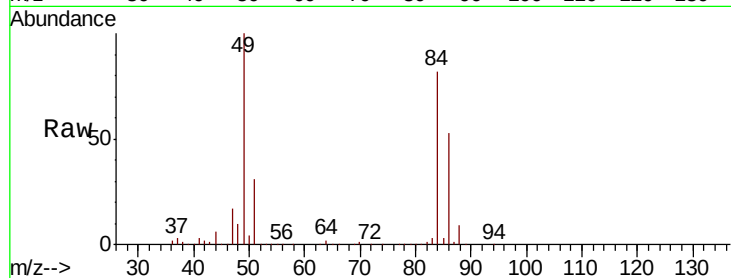




#20
Methvlene Chloride
Concen: 18.67 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX004388.D
Acq: 06 Sep 2018 16:39

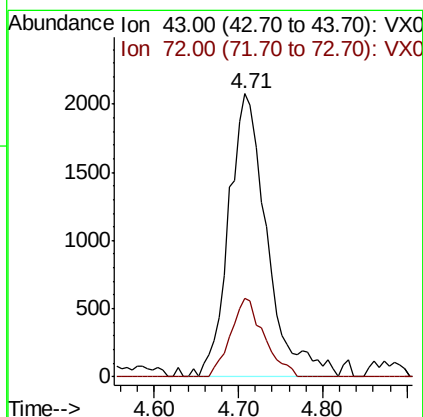
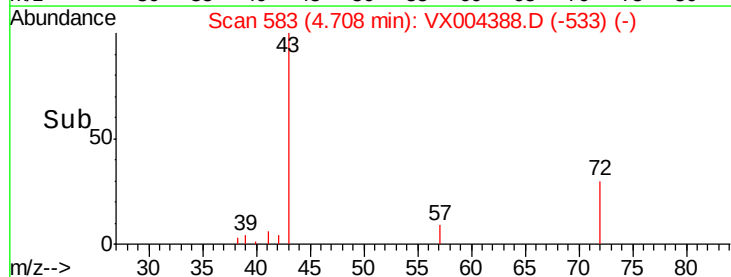
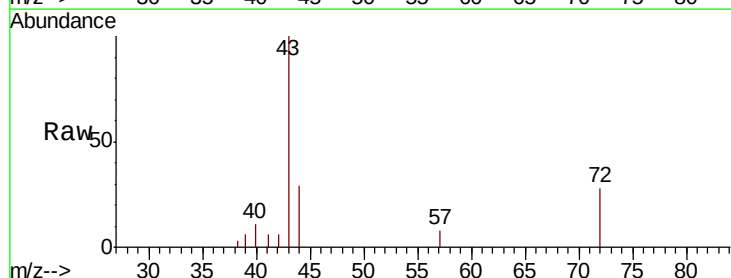
Instrument :
MSVOA_X
ClientSampled :
PB112611TB

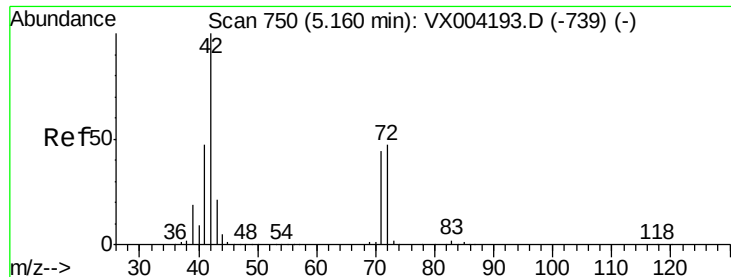
Tot Ion:	84	Resp:	72362
Ion	Ratio	Lower	Upper
84	100		
49	122.0	101.2	151.8
51	38.3	29.5	44.3
86	65.1	52.3	78.5



#25
2-Butanone
Concen: Below Cal
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX004388.D
Acq: 06 Sep 2018 16:39

Tgt Ion:	43	Resp:	6433
Ion	Ratio	Lower	Upper
43	100		
72	27.8	22.0	33.0





#29

Tetrahydrofuran

Concen: 1.40 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX004388.D

Acq: 06 Sep 2018 16:39

Instrument :

MSVOA_X

ClientSampleId :

PB112611TB

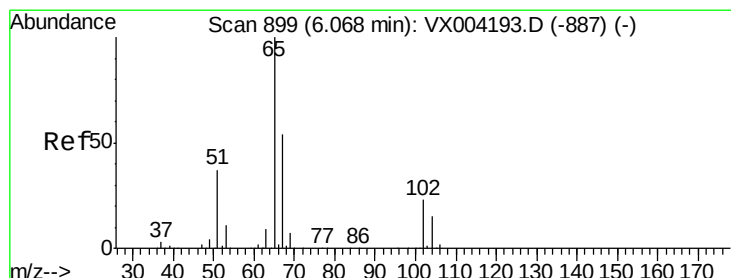
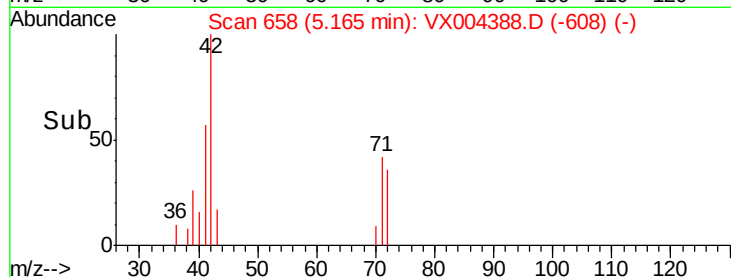
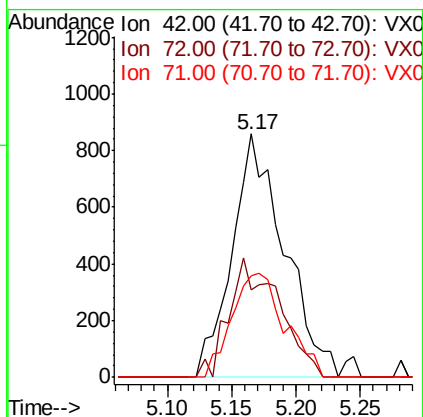
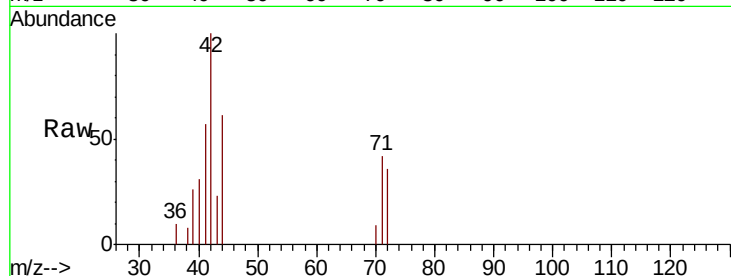
Tot Ion: 42 Resp: 2427

Ion Ratio Lower Upper

42 100

72 46.8 37.4 56.0

71 43.3 34.5 51.7



#33

1,2-Dichloroethane-d4

Concen: 53.09 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004388.D

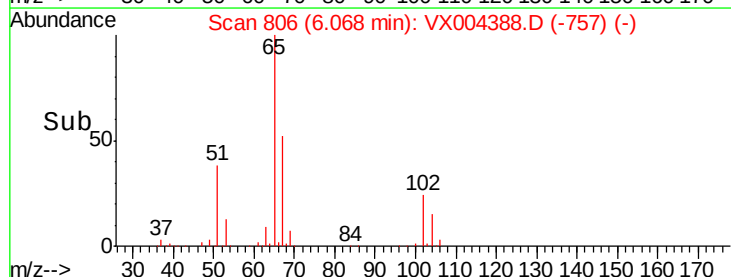
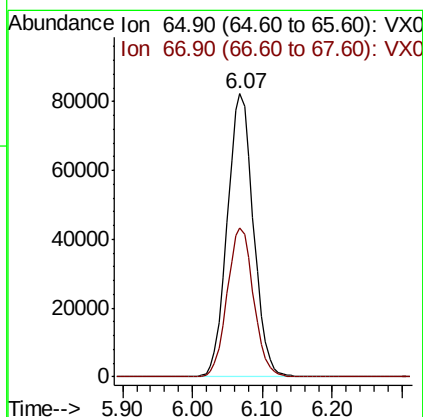
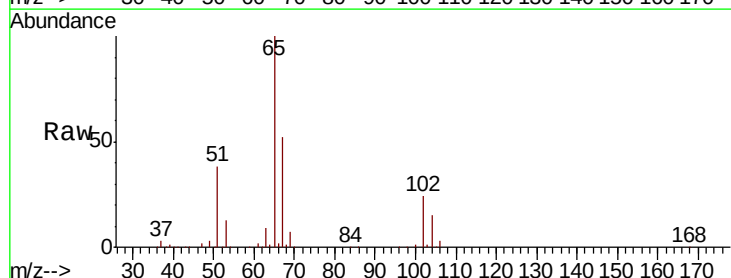
Acq: 06 Sep 2018 16:39

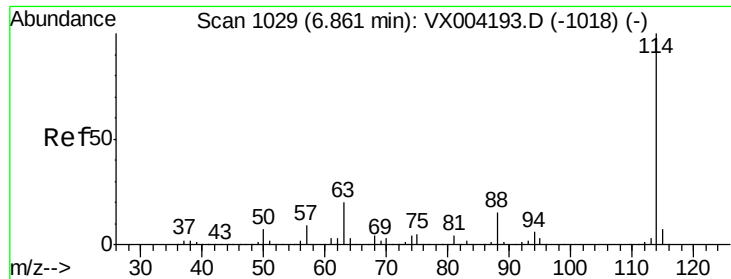
Tgt Ion: 65 Resp: 213778

Ion Ratio Lower Upper

65 100

67 53.0 0.0 106.8

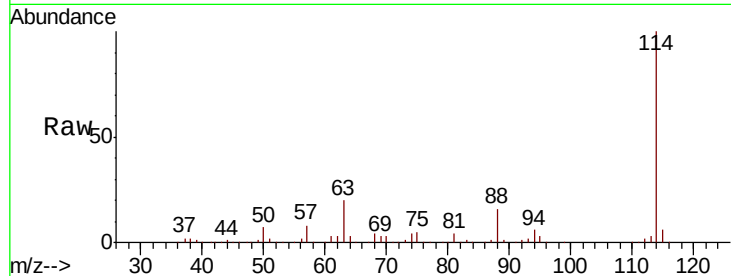




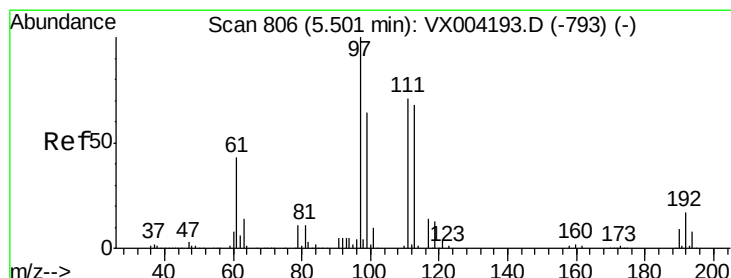
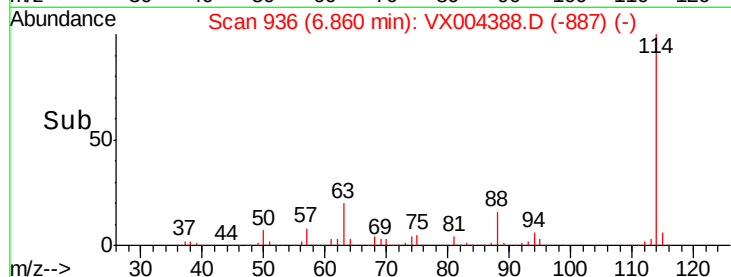
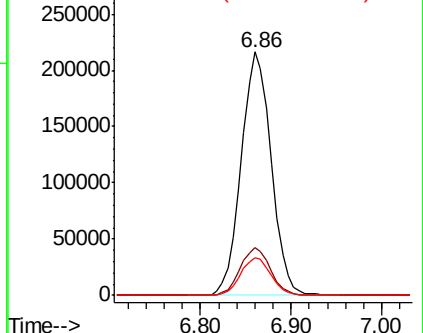
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004388.D
 Acq: 06 Sep 2018 16:39

Instrument :
 MSVOA_X
 ClientSampleId :
 PB112611TB

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	39.0
88	15.6	0.0	30.4

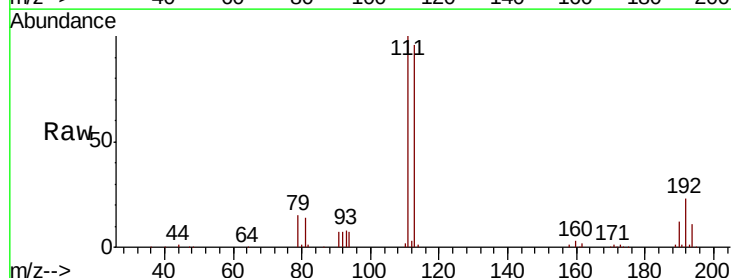


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

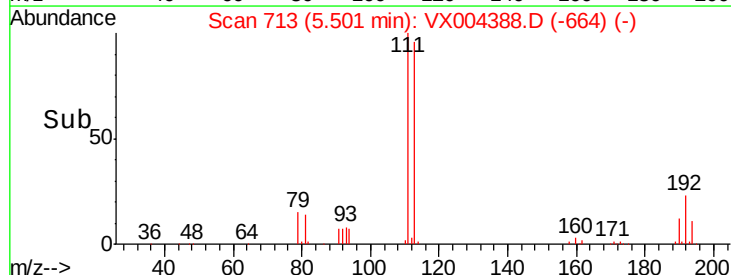
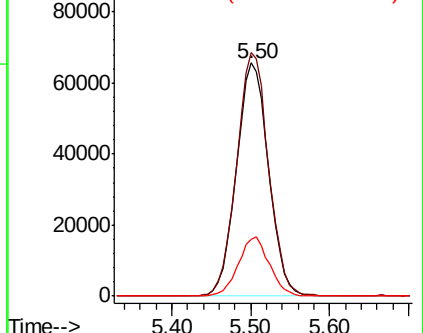


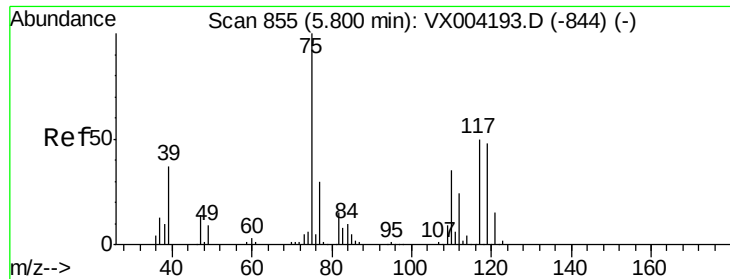
#35
 Dibromofluoromethane
 Concen: 50.16 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004388.D
 Acq: 06 Sep 2018 16:39

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.4	123.6
192	24.4	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

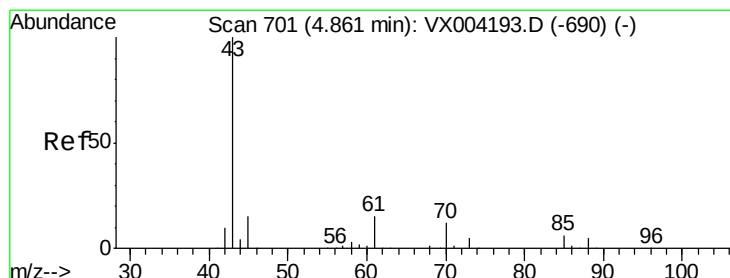
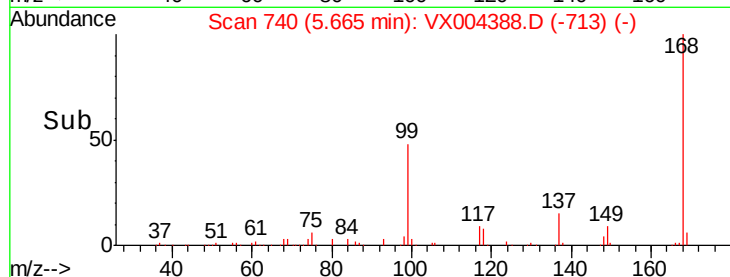
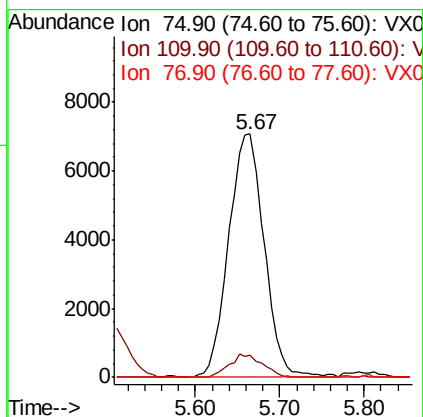
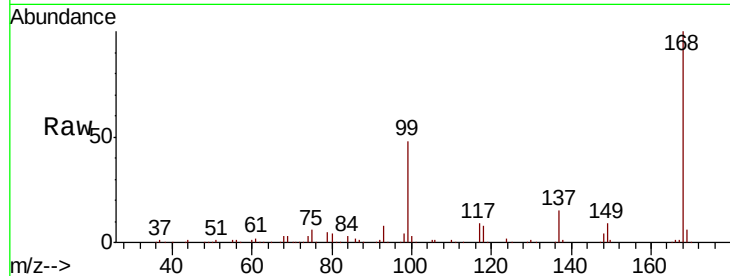




#36
 1,1-Dichloropropene
 Concen: 3.61 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX004388.D
 Acq: 06 Sep 2018 16:39

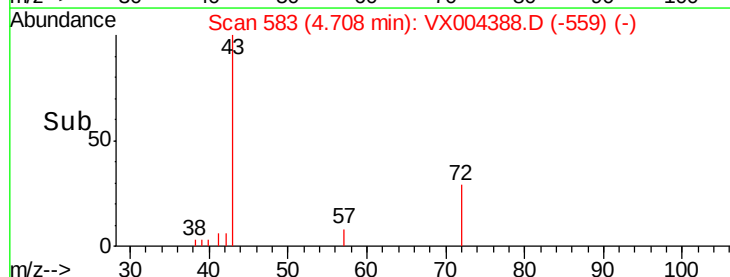
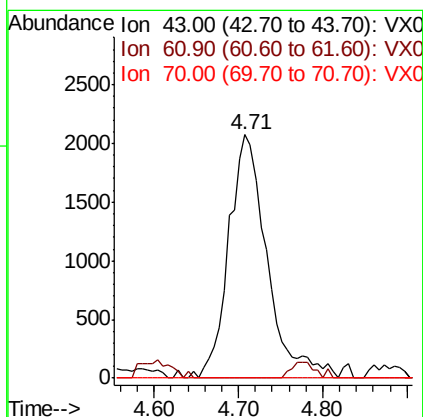
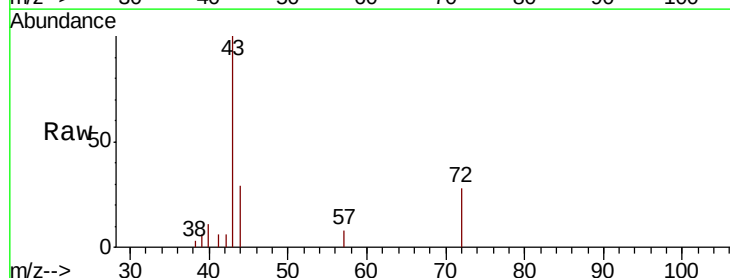
Instrument :
 MSVOA_X
 ClientSampled :
 PB112611TB

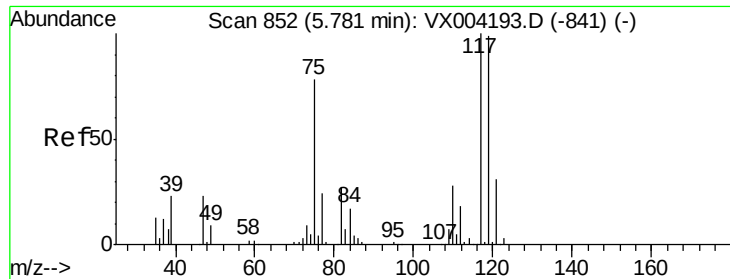
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.0	54.0#
77	0.0	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 1.17 ug/l
 RT: 4.71 min Scan# 583
 Delta R.T. -0.15 min
 Lab File: VX004388.D
 Acq: 06 Sep 2018 16:39

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.5	17.3#
70	0.0	9.0	13.6#

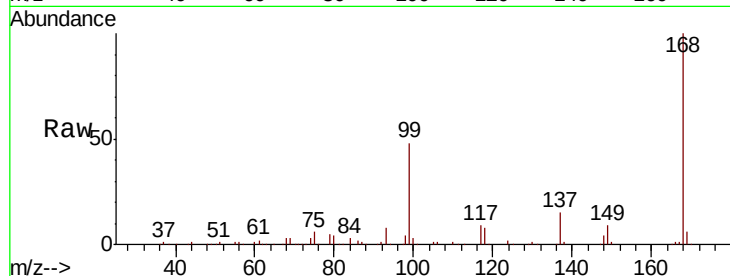




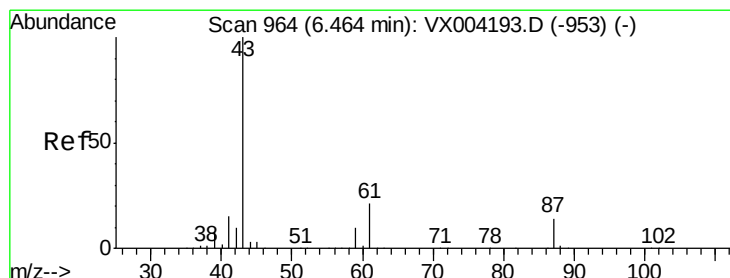
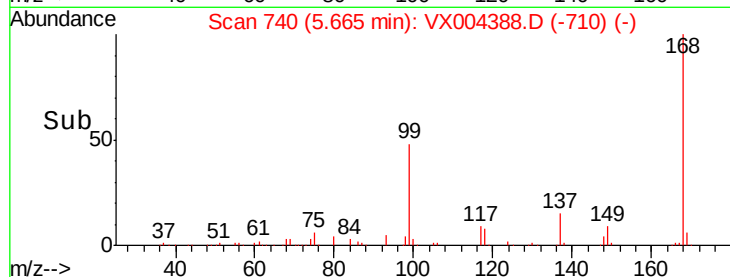
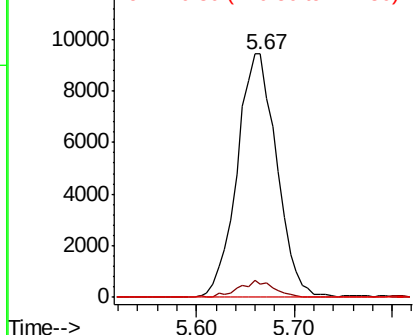
#38
Carbon Tetrachloride
Concen: 5.03 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX004388.D
Acq: 06 Sep 2018 16:39

Instrument :
MSVOA_X
ClientSampled :
PB112611TB

Tot Ion:117 Resp: 26492
Ion Ratio Lower Upper
117 100
119 5.6 78.8 118.2#
121 0.0 24.9 37.3#

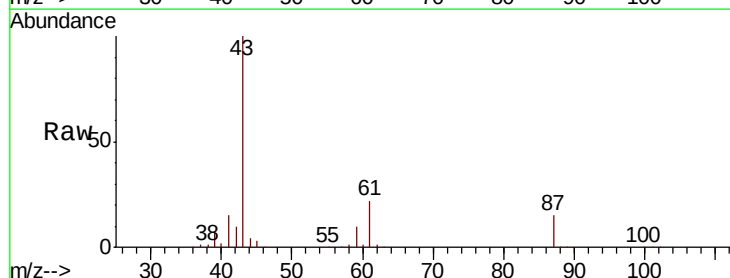


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

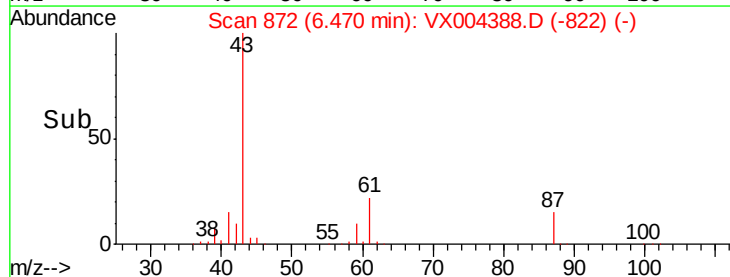
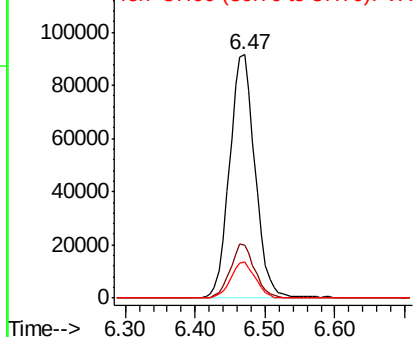


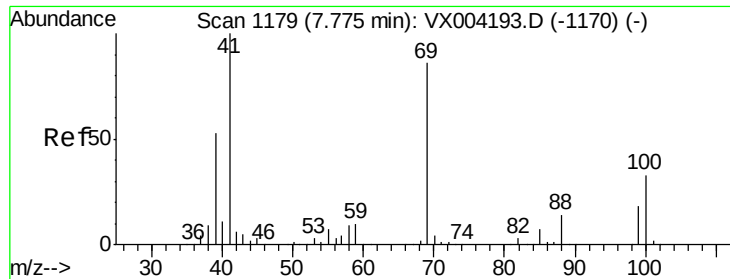
#43
Isopropyl Acetate
Concen: 27.43 ug/l
RT: 6.47 min Scan# 872
Delta R.T. 0.01 min
Lab File: VX004388.D
Acq: 06 Sep 2018 16:39

Tgt Ion: 43 Resp: 232073
Ion Ratio Lower Upper
43 100
61 21.4 17.0 25.4
87 14.4 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

Methvl methacrylate

Concen: 2.13 ug/l

RT: 7.69 min Scan# 1072

Delta R.T. -0.09 min

Lab File: VX004388.D

Acq: 06 Sep 2018 16:39

Instrument :

MSVOA_X

ClientSampleId :

PB112611TB

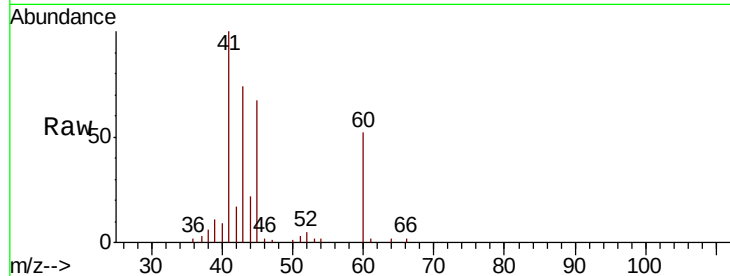
Tot Ion: 41 Resp: 9661

Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.4#

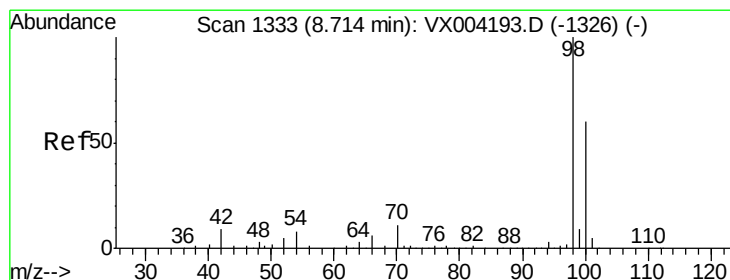
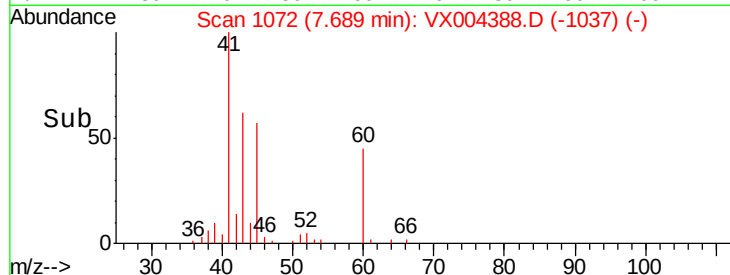
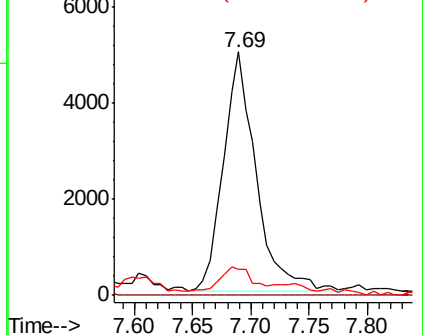
39 10.1 42.7 64.1#



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: 51.08 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX004388.D

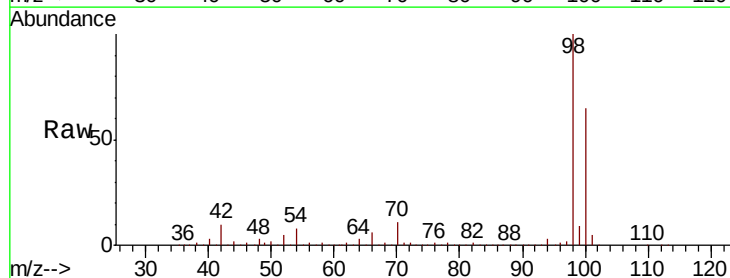
Acq: 06 Sep 2018 16:39

Tgt Ion: 98 Resp: 714363

Ion Ratio Lower Upper

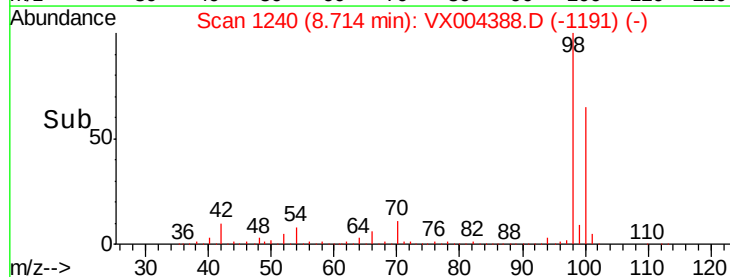
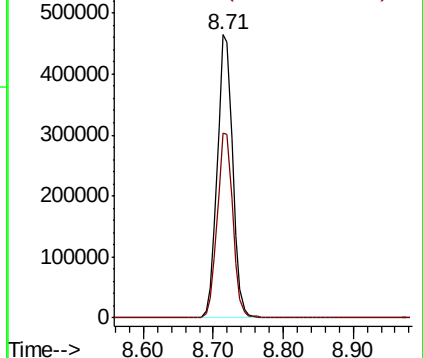
98 100

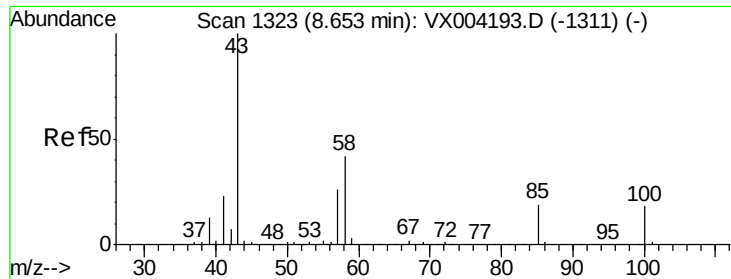
100 65.7 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 0.37 ug/l

RT: 8.65 min Scan# 1230

Delta R.T. -0.00 min

Lab File: VX004388.D

Acq: 06 Sep 2018 16:39

Instrument :

MSVOA_X

ClientSampled :

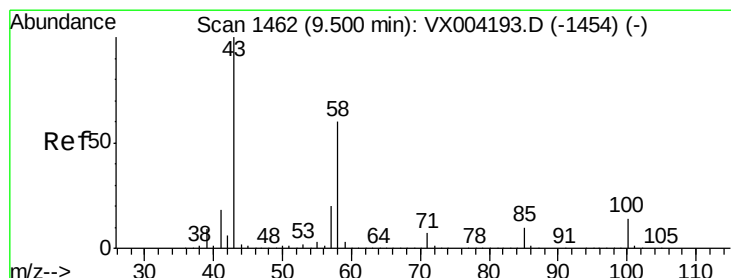
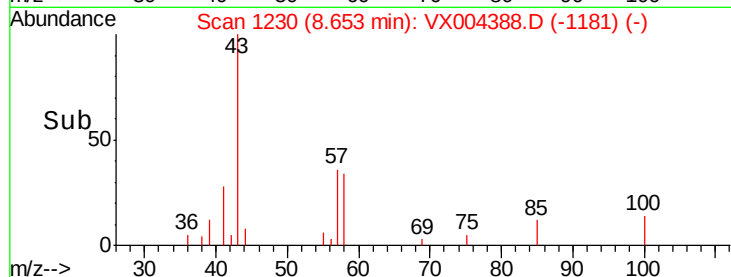
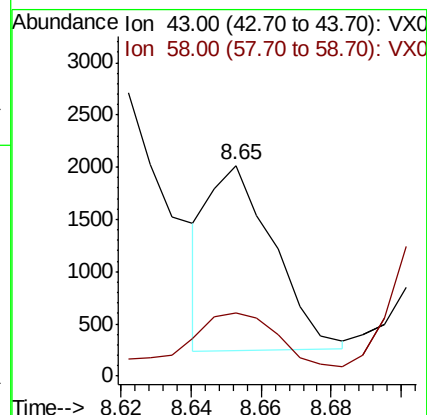
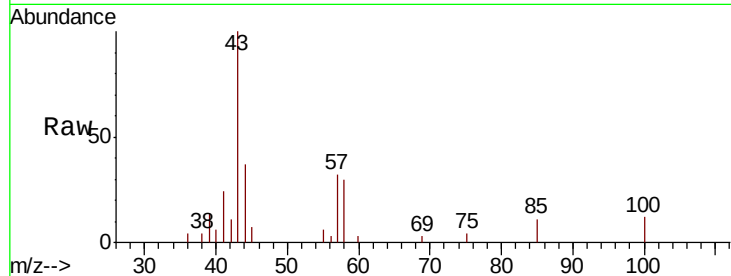
PB112611TB

Tot Ion: 43 Resp: 2262

Ion Ratio Lower Upper

43 100

58 60.1 33.1 49.7#



#59

2-Hexanone

Concen: 3.46 ug/l

RT: 9.55 min Scan# 1377

Delta R.T. 0.05 min

Lab File: VX004388.D

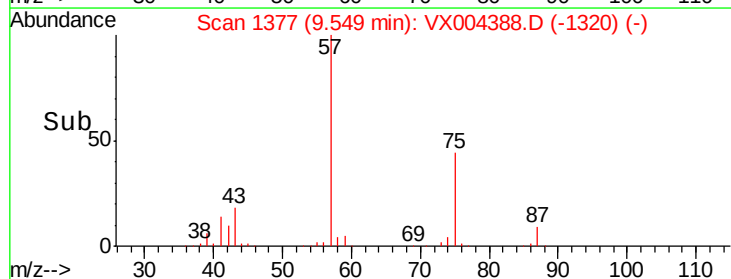
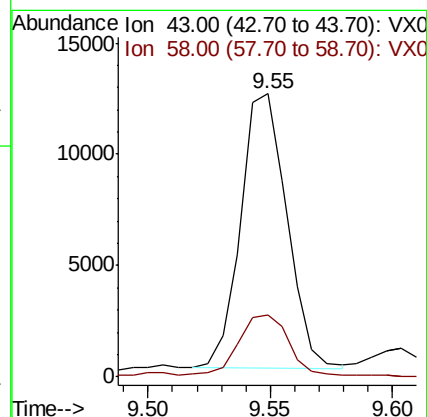
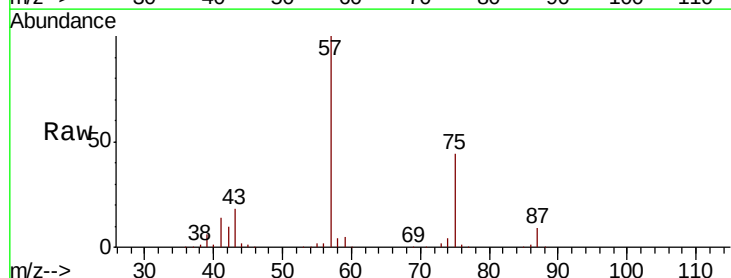
Acq: 06 Sep 2018 16:39

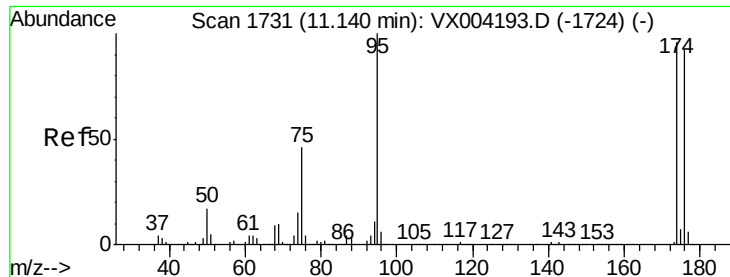
Tgt Ion: 43 Resp: 16214

Ion Ratio Lower Upper

43 100

58 25.7 29.0 87.0#

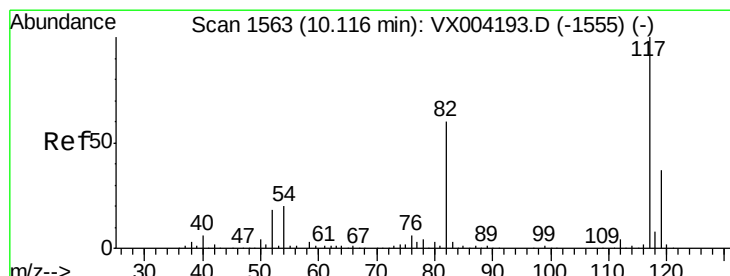
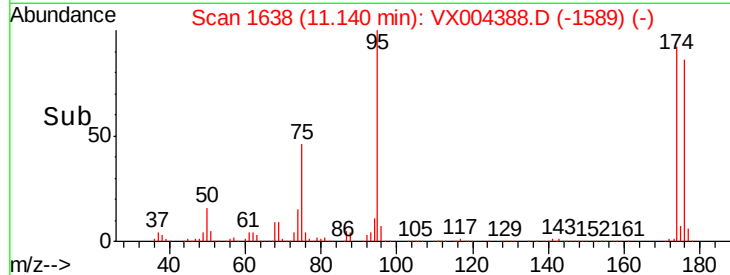
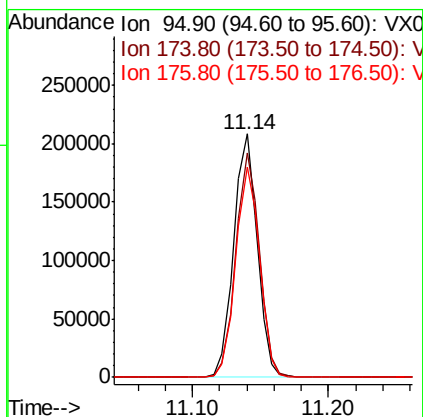
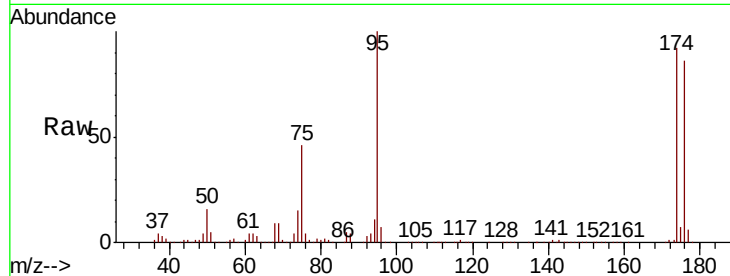




#62
4-Bromofluorobenzene
Concen: 48.18 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004388.D
Acq: 06 Sep 2018 16:39

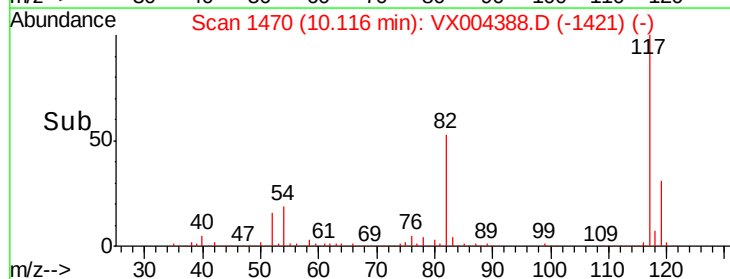
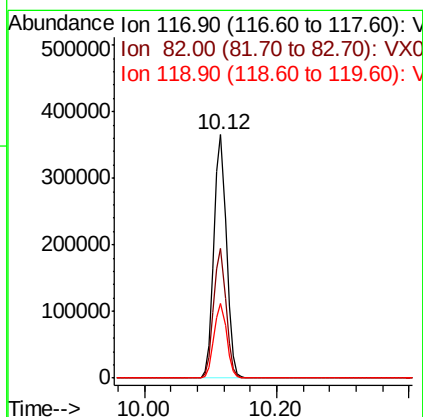
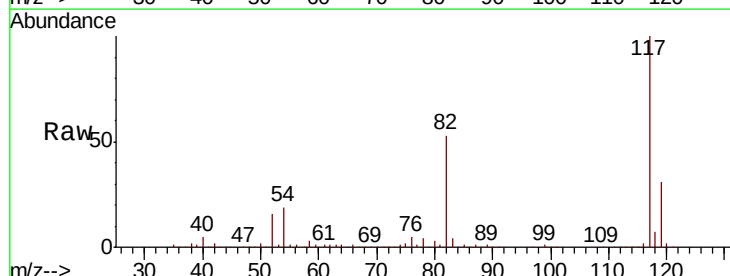
Instrument :
MSVOA_X
ClientSampled :
PB112611TB

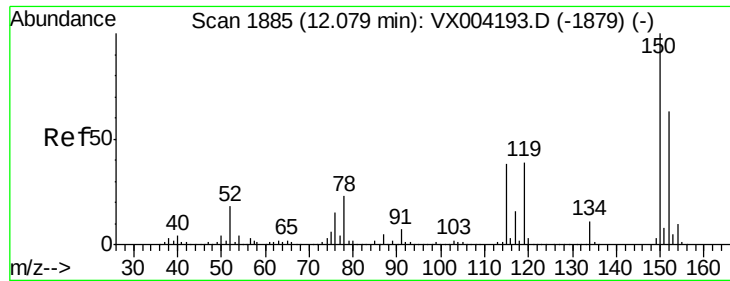
Tot Ion: 95 Resp: 251424
Ion Ratio Lower Upper
95 100
174 92.6 0.0 185.2
176 87.9 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004388.D
Acq: 06 Sep 2018 16:39

Tgt Ion: 117 Resp: 474362
Ion Ratio Lower Upper
117 100
82 53.3 47.8 71.6
119 30.8 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: VX004388.D

Acq: 06 Sep 2018 16:39

Instrument :

MSVOA_X

ClientSampleId :

PB112611TB

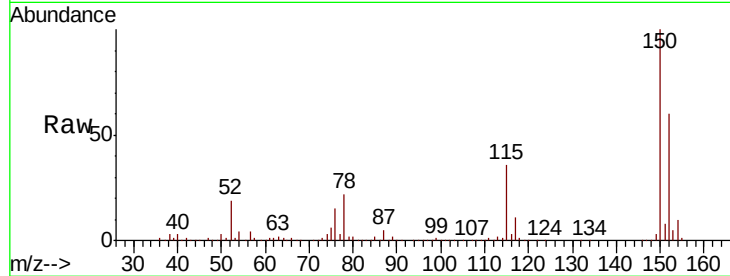
Tot Ion:152 Resp: 240792

Ion Ratio Lower Upper

152 100

115 58.3 39.0 117.0

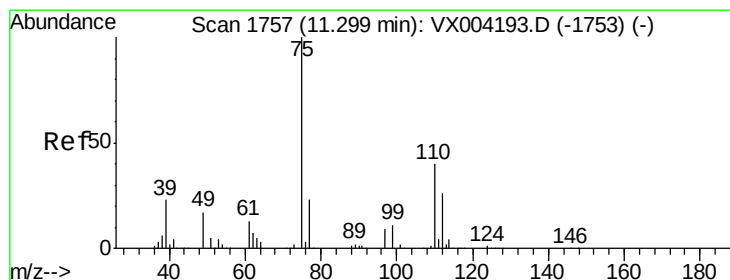
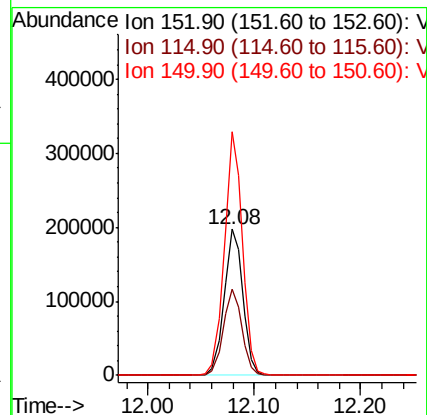
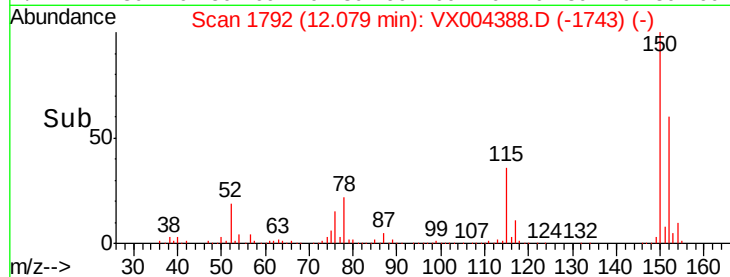
150 160.9 0.0 351.0



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: 24.26 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004388.D

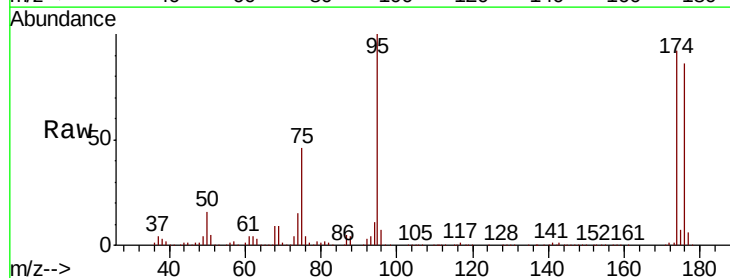
Acq: 06 Sep 2018 16:39

Tgt Ion: 75 Resp: 118800

Ion Ratio Lower Upper

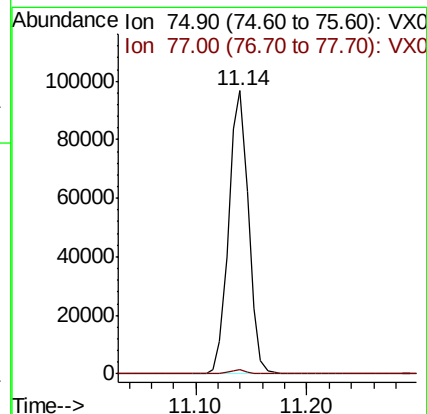
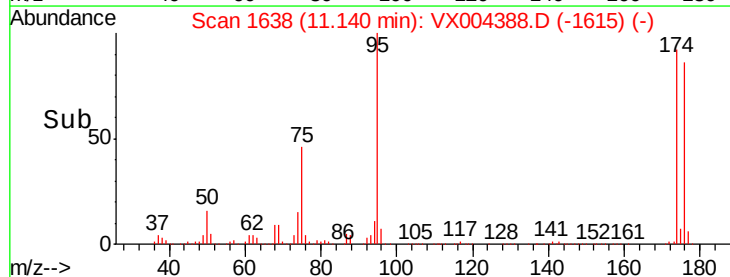
75 100

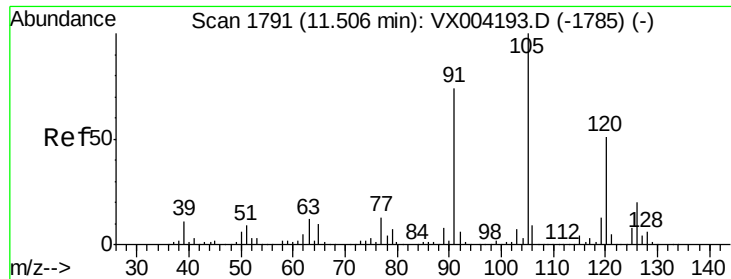
77 1.4 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

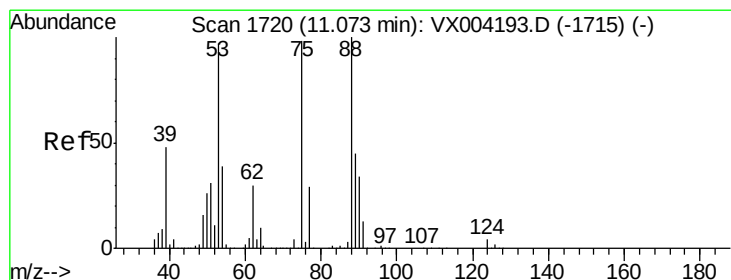
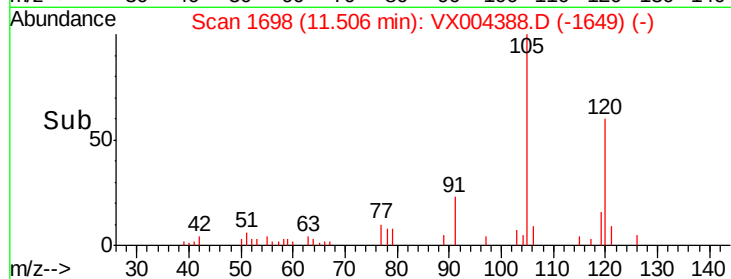
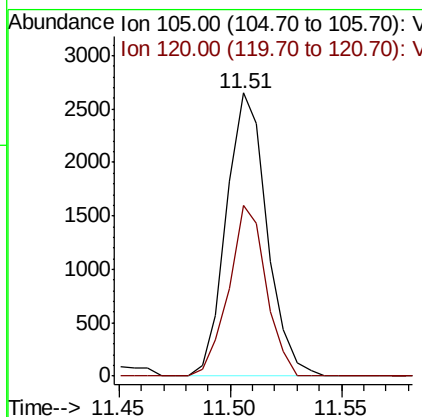
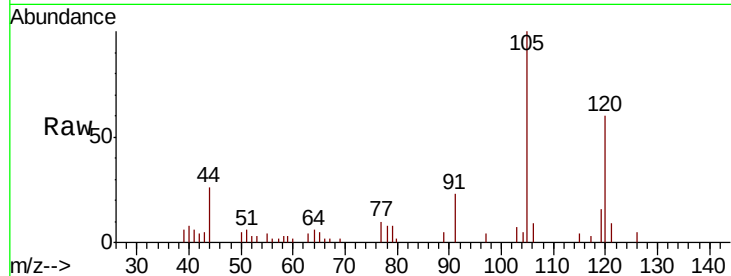




#80
 1,3,5-Trimethylbenzene
 Concen: 0.26 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX004388.D
 Acq: 06 Sep 2018 16:39

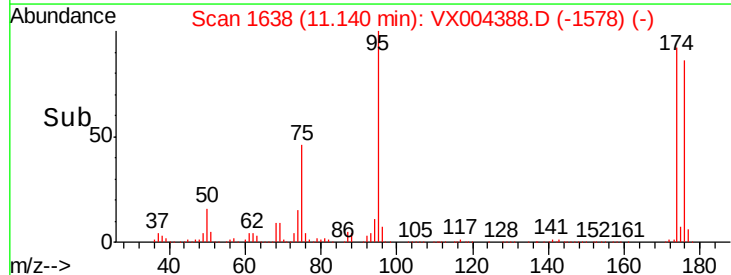
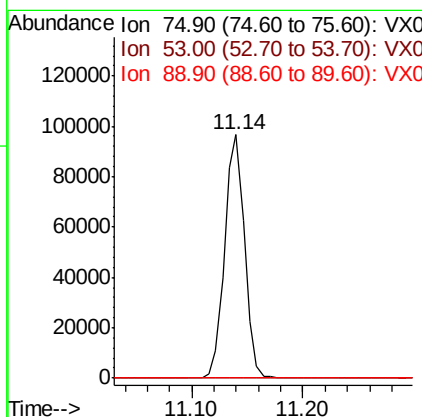
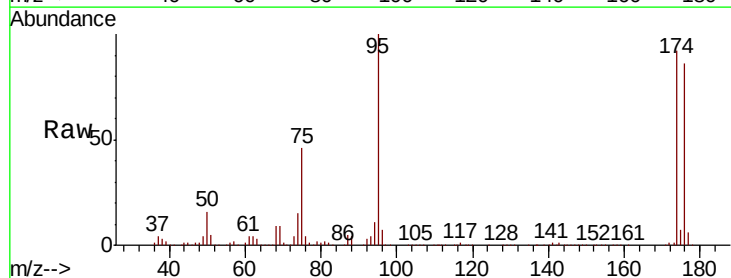
Instrument :
 MSVOA_X
 ClientSampled :
 PB112611TB

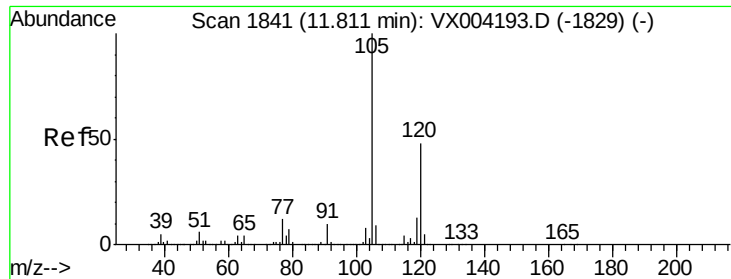
Tot Ion:105 Resp: 3364
 Ion Ratio Lower Upper
 105 100
 120 55.3 25.6 76.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 78.71 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.07 min
 Lab File: VX004388.D
 Acq: 06 Sep 2018 16:39

Tgt Ion: 75 Resp: 118800
 Ion Ratio Lower Upper
 75 100
 53 0.2 80.1 120.1#
 89 0.0 37.2 55.8#





#84
 1,2,4-Trimethylbenzene
 Concen: 0.20 ug/l
 RT: 11.81 min Scan# 1748
 Delta R.T. -0.00 min
 Lab File: VX004388.D
 Acq: 06 Sep 2018 16:39

Instrument :
 MSVOA_X
 ClientSampleId :
 PB112611TB

Tot Ion:105 Resp: 2691
 Ion Ratio Lower Upper
 105 100
 120 50.2 23.2 69.6

