

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090618\
 Data File : VX004390.D
 Acq On : 06 Sep 2018 17:32
 Operator : JC/MD
 Sample : PB112611ZHE#02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB112611ZHE#02

Quant Time: Sep 07 04:46:56 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	303473	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	497928	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	466474	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	248017	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	211876	53.57	ug/l	0.00
Spiked Amount			Recovery	=	107.14%	
35) Dibromofluoromethane	5.50	113	187066	50.50	ug/l	0.00
Spiked Amount			Recovery	=	101.00%	
50) Toluene-d8	8.71	98	711440	50.88	ug/l	0.00
Spiked Amount			Recovery	=	101.76%	
62) 4-Bromofluorobenzene	11.14	95	249974	47.91	ug/l	0.00
Spiked Amount			Recovery	=	95.82%	

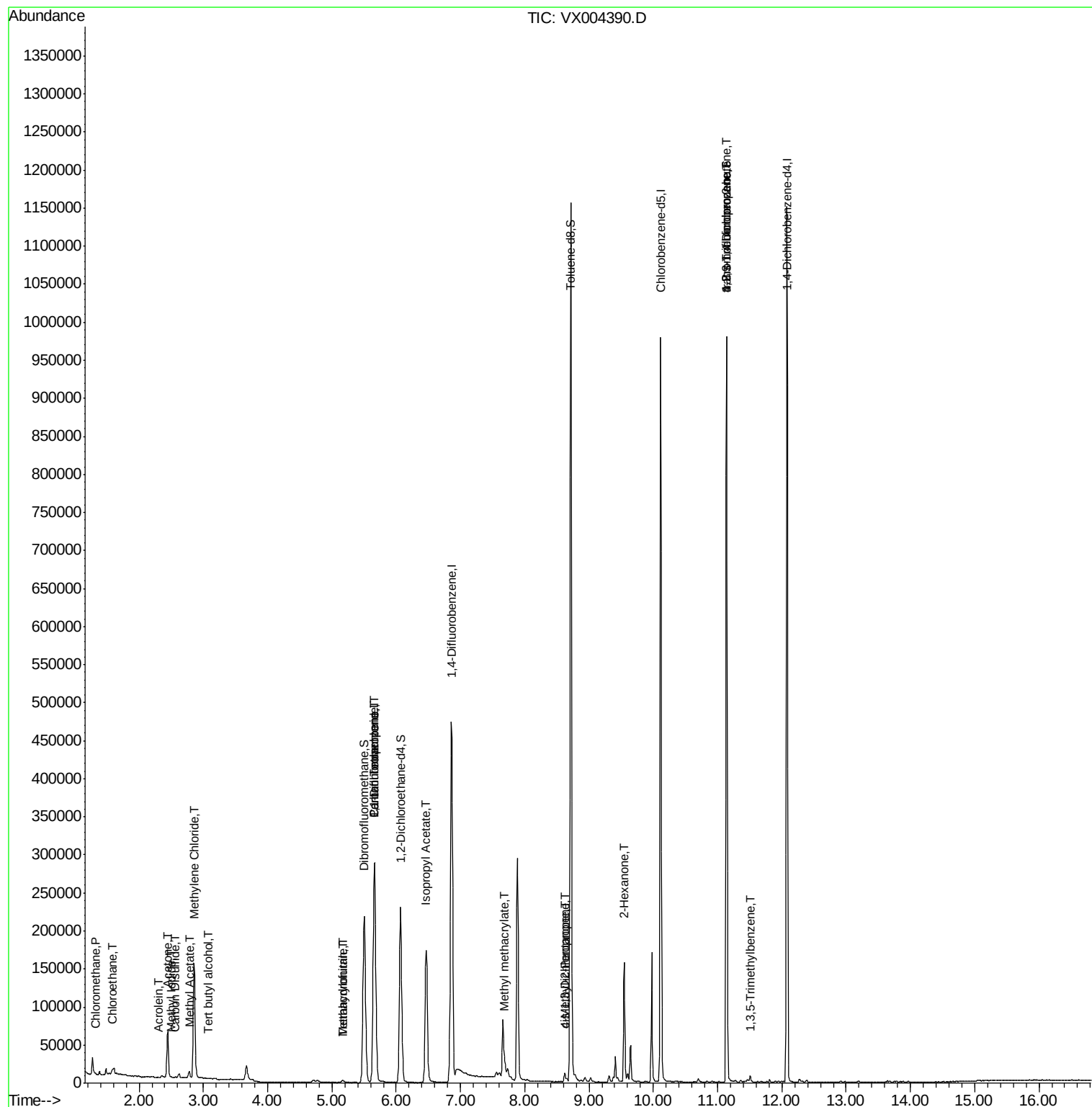
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	925	0.53	ug/l	94
5) Bromomethane	1.64	94	1216	Below Cal	#	78
6) Chloroethane	1.58	64	12005	4.72	ug/l	61
10) Methyl Iodide	2.51	142	747	4.44	ug/l	79
11) Tert butyl alcohol	3.07	59	1025	1.22	ug/l	99
13) Acrolein	2.29	56	354	1.74	ug/l	77
16) Acetone	2.45	43	65067	33.30	ug/l	100
17) Carbon Disulfide	2.57	76	881	0.90	ug/l	73
18) Methyl Acetate	2.78	43	11153	1.90	ug/l	98
20) Methylene Chloride	2.85	84	72081	18.93	ug/l	97
25) 2-Butanone	4.72	43	6060	Below Cal		91
29) Tetrahydrofuran	5.17	42	2550	1.50	ug/l	93
36) 1,1-Dichloropropene	5.66	75	20105	3.59	ug/l	49
38) Carbon Tetrachloride	5.67	117	26410	5.02	ug/l	16
41) Methacrylonitrile	5.17	41	1589	0.50	ug/l	34
43) Isopropyl Acetate	6.47	43	230968	27.30	ug/l	100
48) Methyl methacrylate	7.69	41	11666	2.58	ug/l	18
51) 4-Methyl-2-Pentanone	8.62	43	3442	0.56	ug/l	34
54) cis-1,3-Dichloropropene	8.62	75	1883	0.30	ug/l	69
59) 2-Hexanone	9.55	43	16509	3.52	ug/l	56
76) 1,2,3-Trichloropropane	11.14	75	117163	23.23	ug/l	37
80) 1,3,5-Trimethylbenzene	11.51	105	3015	0.22	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.14	75	117163	75.36	ug/l	10
94) Hexachlorobutadiene	13.78	225	197	Below Cal		80

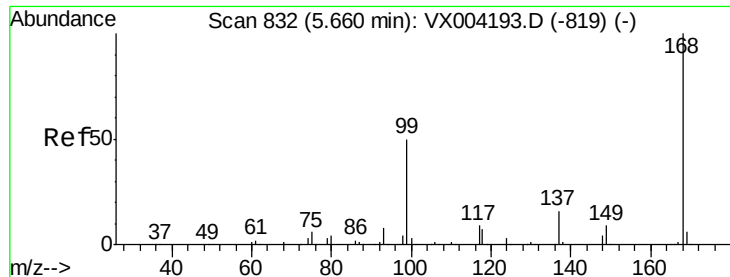
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampleId :
PB112611ZHE#02

Quant Time: Sep 07 04:46:56 2018
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: VX004390.D

Acq: 06 Sep 2018 17:32

Instrument :

MSVOA_X

ClientSampleId :

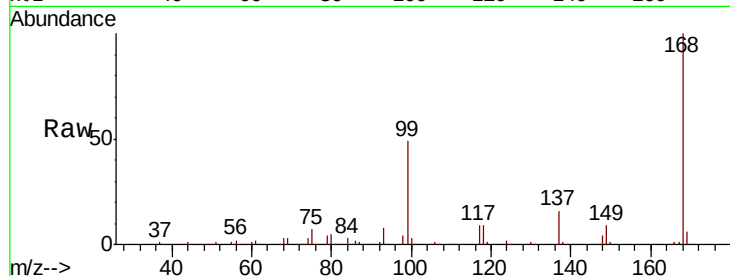
PB112611ZHE#02

Tot Ion:168 Resp: 303473

Ion Ratio Lower Upper

168 100

99 49.1 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

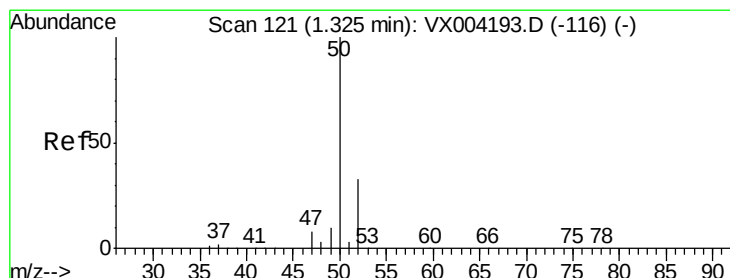
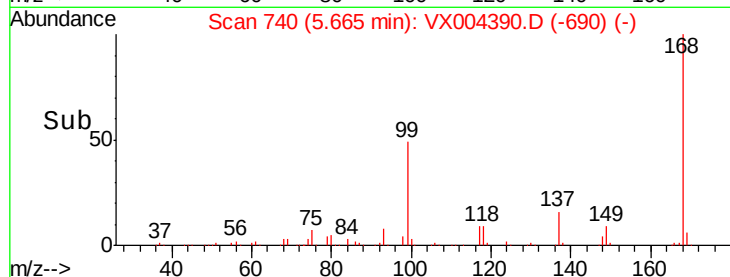
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.53 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX004390.D

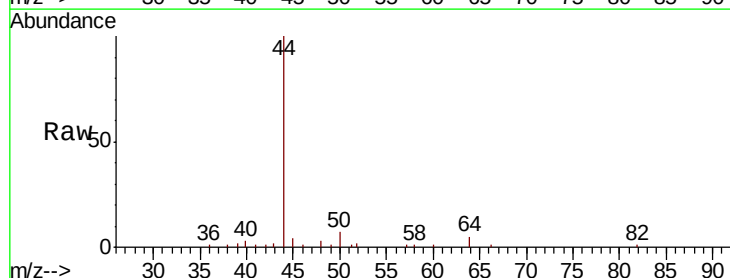
Acq: 06 Sep 2018 17:32

Tgt Ion: 50 Resp: 925

Ion Ratio Lower Upper

50 100

52 36.0 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

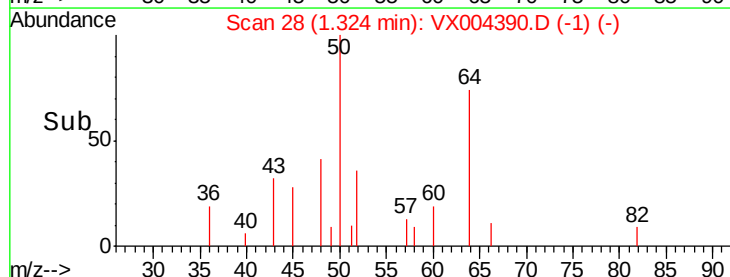
600

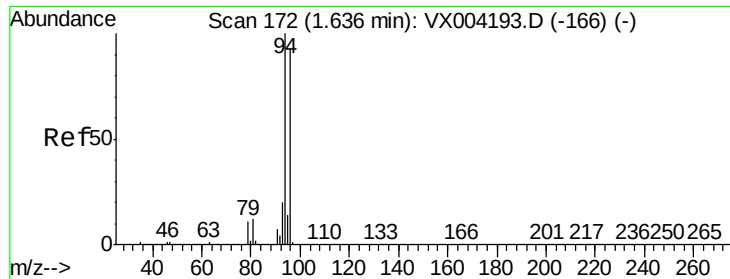
400

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: VX004390.D

Acq: 06 Sep 2018 17:32

Instrument :

MSVOA_X

ClientSampleId :

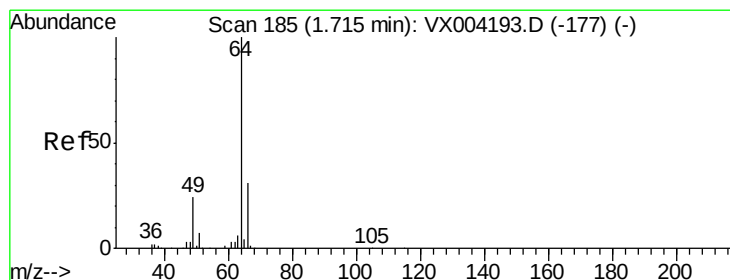
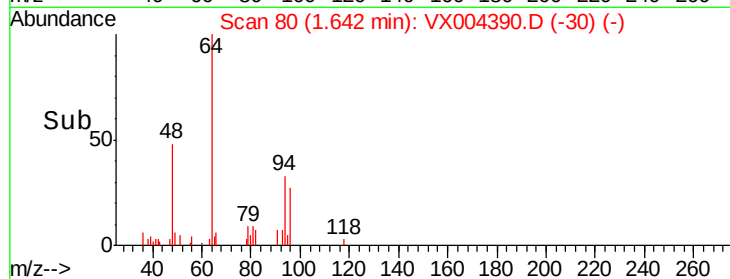
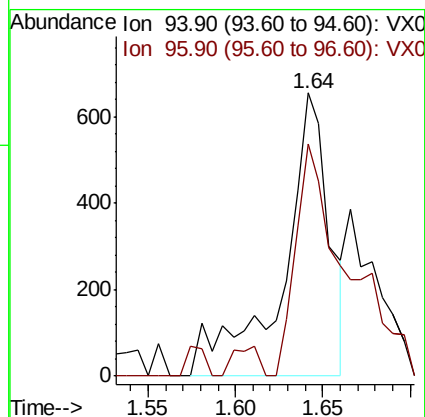
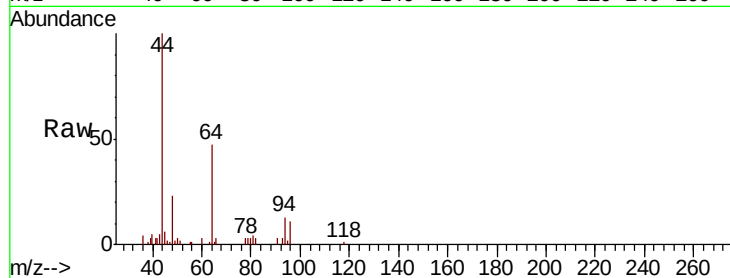
PB112611ZHE#02

Tot Ion: 94 Resp: 1216

Ion Ratio Lower Upper

94 100

96 71.8 74.5 111.7#



#6

Chloroethane

Concen: 4.72 ug/l

RT: 1.58 min Scan# 70

Delta R.T. -0.13 min

Lab File: VX004390.D

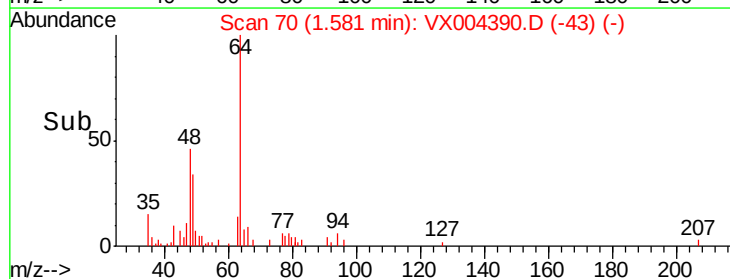
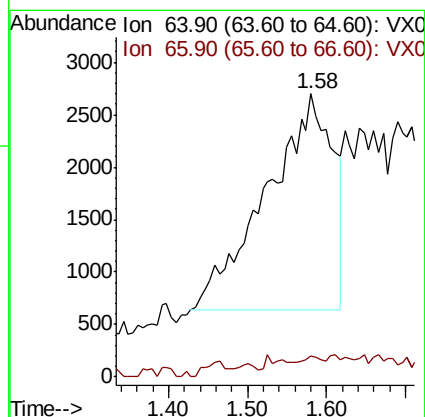
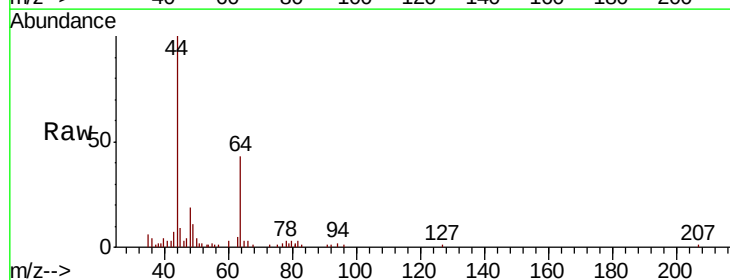
Acq: 06 Sep 2018 17:32

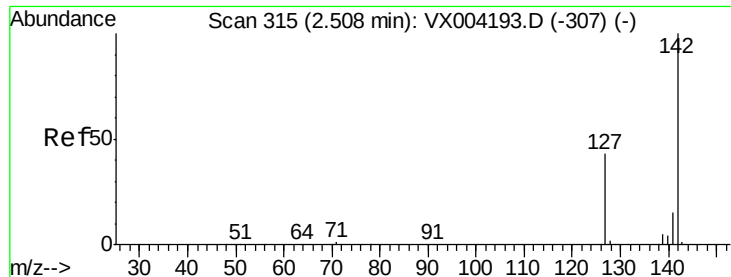
Tgt Ion: 64 Resp: 12005

Ion Ratio Lower Upper

64 100

66 9.6 24.6 36.8#

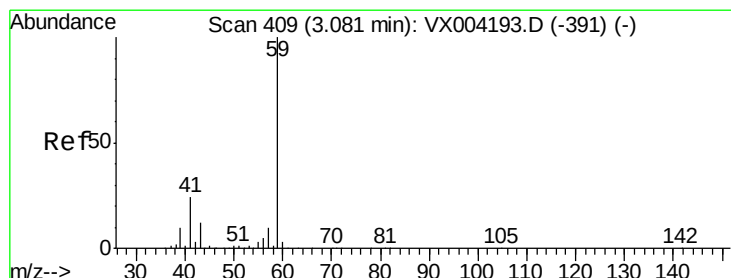
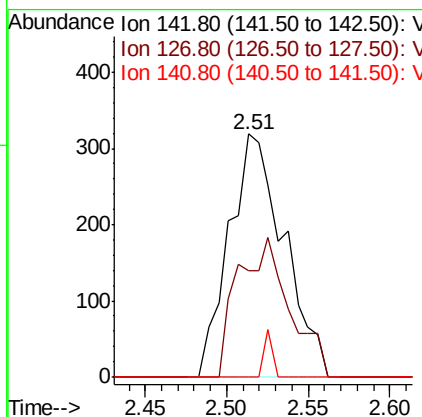
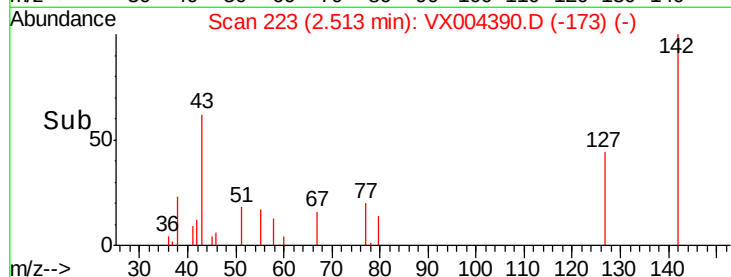
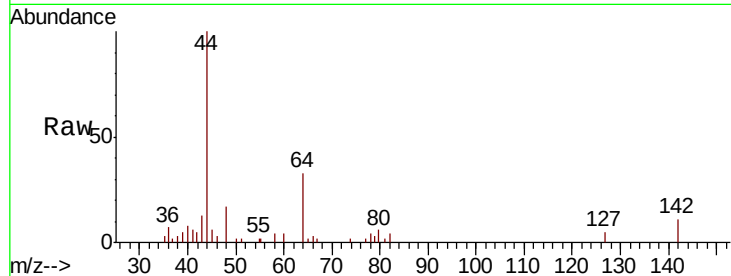




#10
Methvl Iodide
Concen: 4.44 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX004390.D
Acq: 06 Sep 2018 17:32

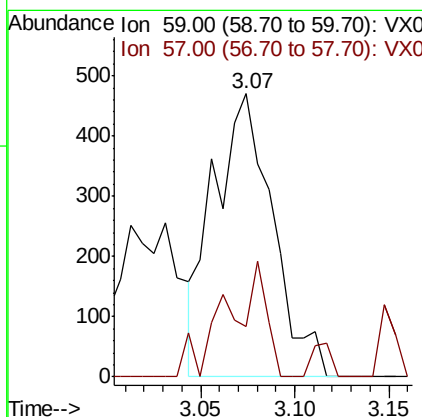
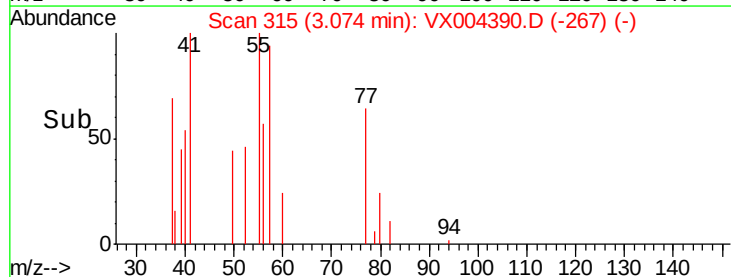
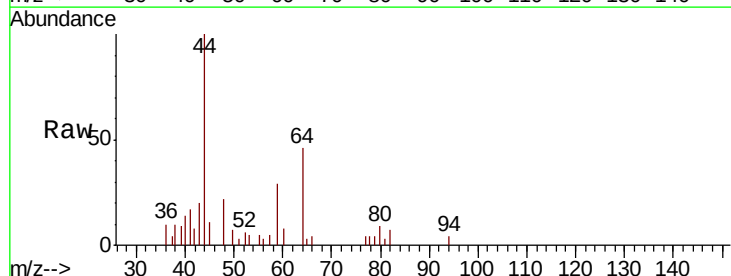
Instrument :
MSVOA_X
ClientSampleId :
PB112611ZHE#02

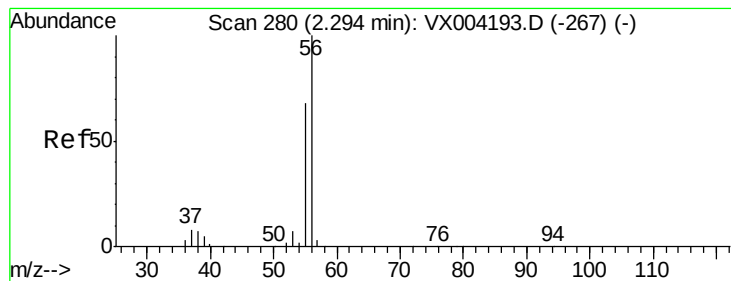
Tot Ion:142 Resp: 747
Ion Ratio Lower Upper
142 100
127 54.2 33.8 50.6#
141 3.1 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.22 ug/l
RT: 3.07 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX004390.D
Acq: 06 Sep 2018 17:32

Tgt Ion: 59 Resp: 1025
Ion Ratio Lower Upper
59 100
57 10.0 8.2 12.4





#13

Acrolein

Concen: 1.74 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX004390.D

Acq: 06 Sep 2018 17:32

Instrument :

MSVOA_X

ClientSampleId :

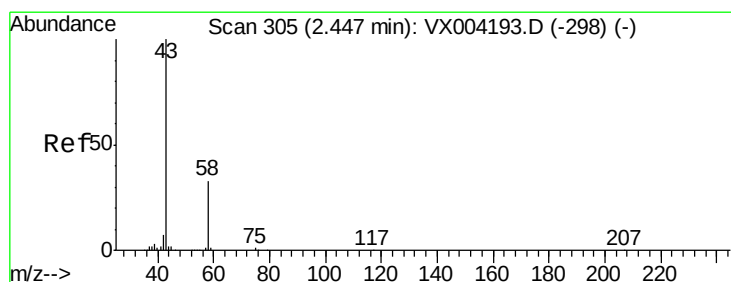
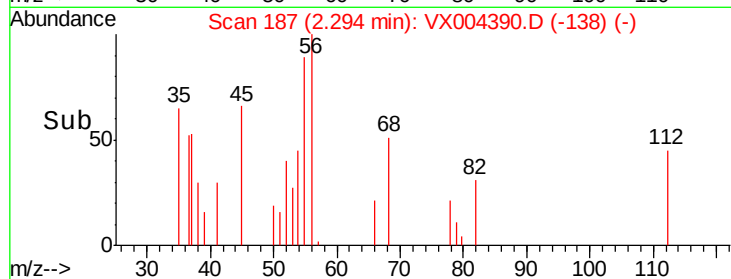
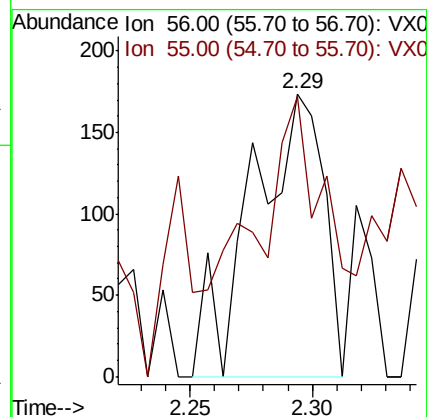
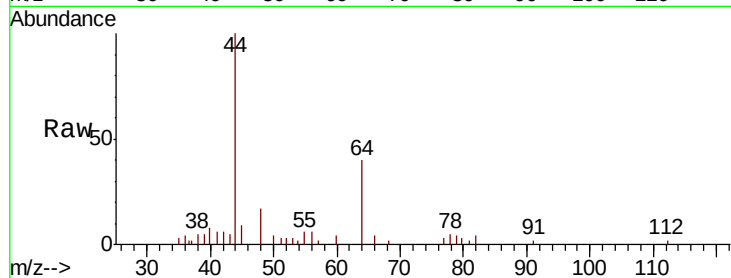
PB112611ZHE#02

Tot Ion: 56 Resp: 354

Ion Ratio Lower Upper

56 100

55 86.7 54.7 82.1#



#16

Acetone

Concen: 33.30 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004390.D

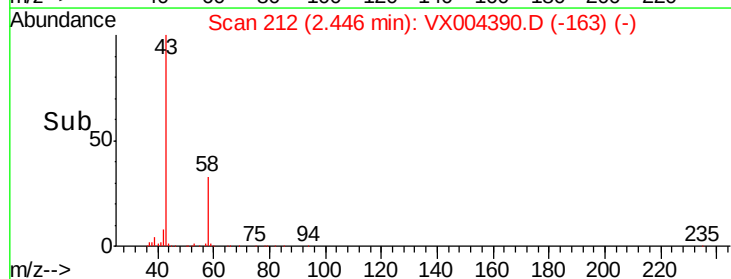
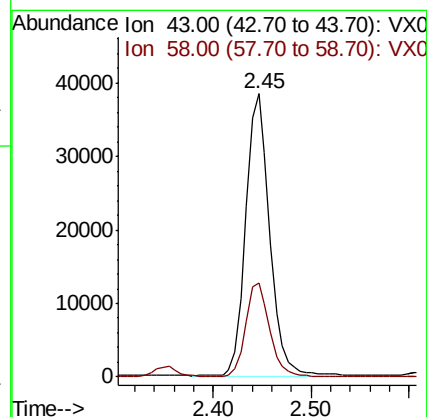
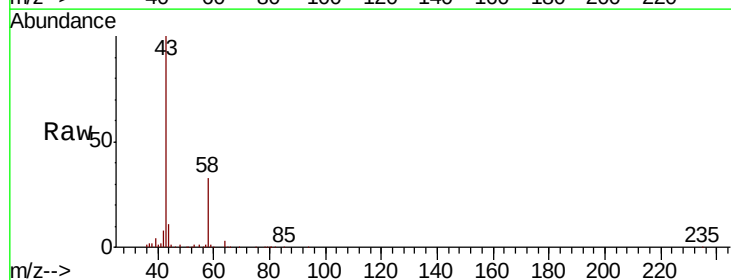
Acq: 06 Sep 2018 17:32

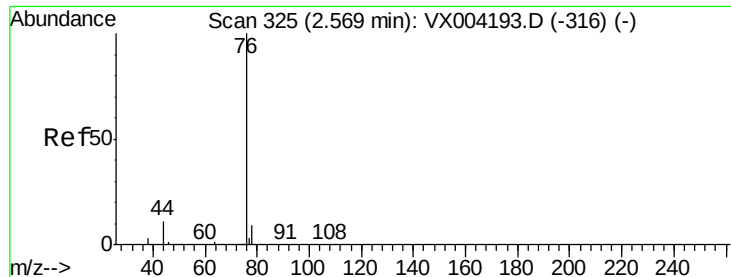
Tgt Ion: 43 Resp: 65067

Ion Ratio Lower Upper

43 100

58 33.1 26.2 39.4





#17

Carbon Disulfide

Concen: 0.90 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX004390.D

Acq: 06 Sep 2018 17:32

Instrument :

MSVOA_X

ClientSampleId :

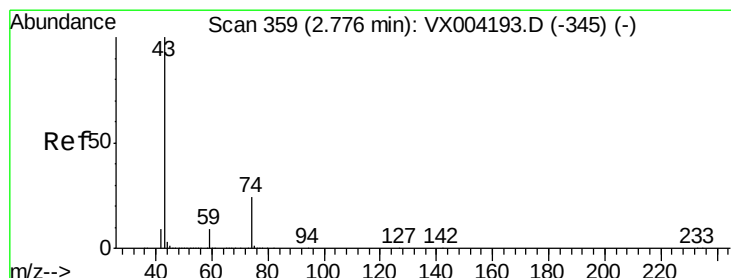
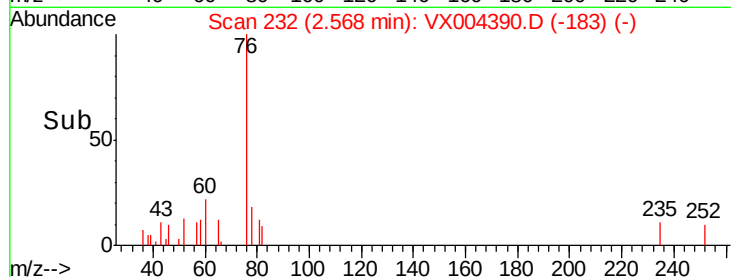
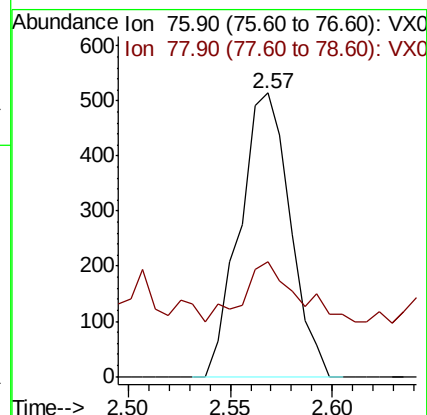
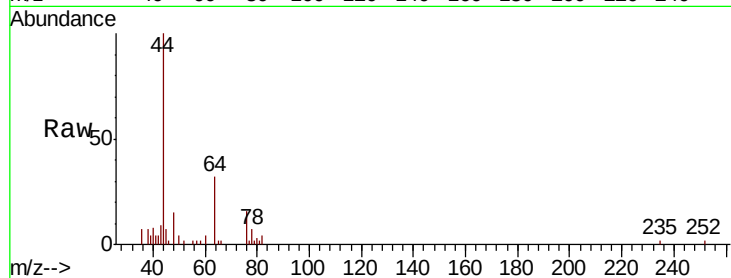
PB112611ZHE#02

Tot Ion: 76 Resp: 881

Ion Ratio Lower Upper

76 100

78 18.7 7.0 10.6#



#18

Methyl Acetate

Concen: 1.90 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX004390.D

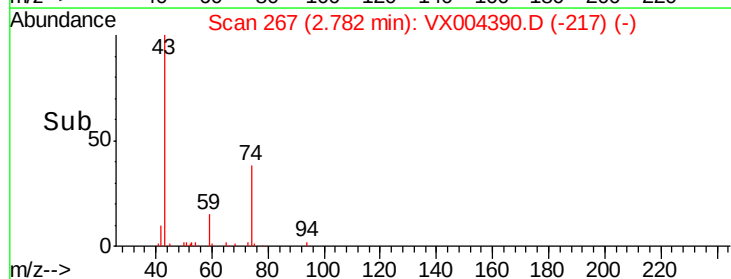
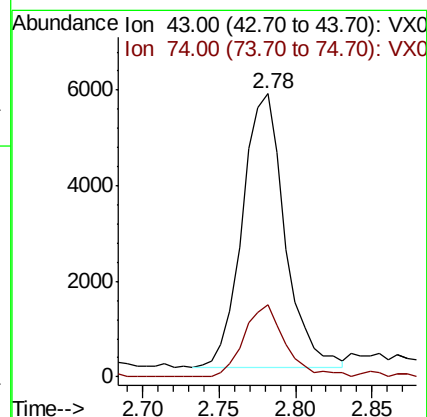
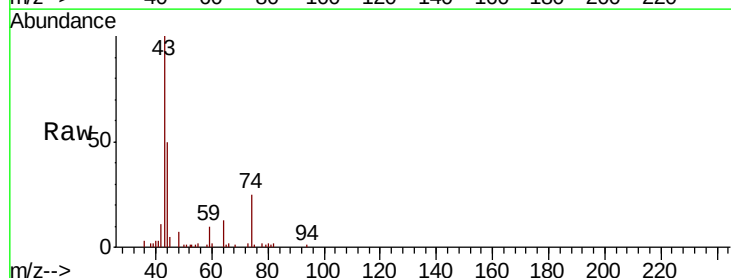
Acq: 06 Sep 2018 17:32

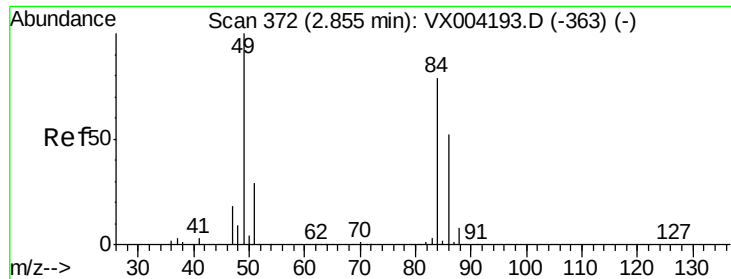
Tgt Ion: 43 Resp: 11153

Ion Ratio Lower Upper

43 100

74 25.3 19.4 29.2



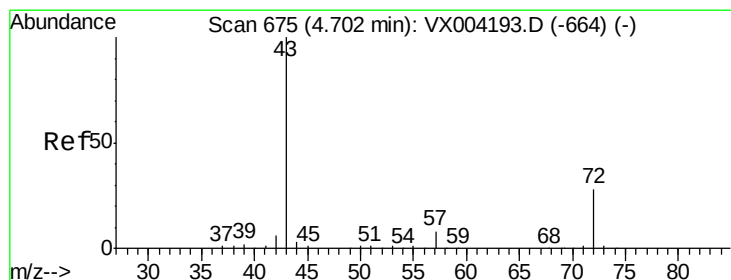
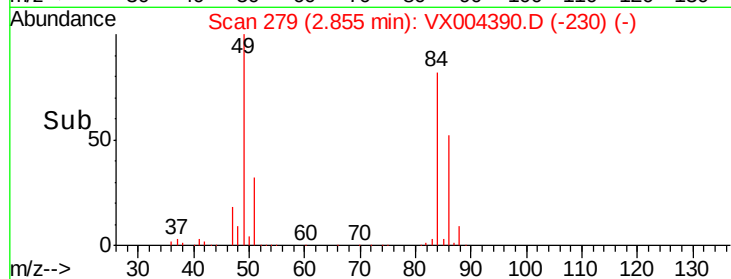
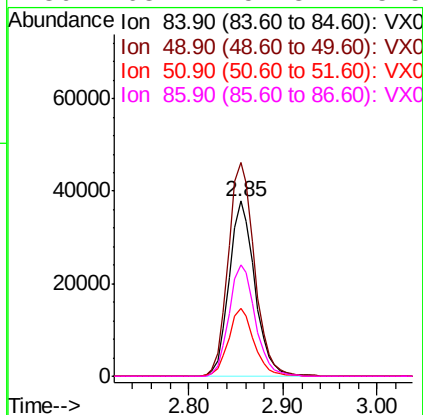
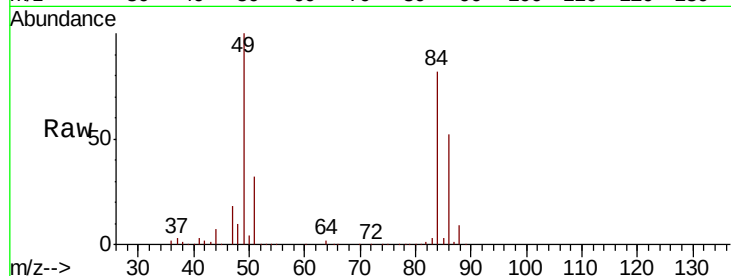


#20
Methvlene Chloride
Concen: 18.93 ua/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX004390.D
Acq: 06 Sep 2018 17:32

Instrument :
MSVOA_X
ClientSampleId :
PB112611ZHE#02

Tot Ion: 84 Resp: 72081

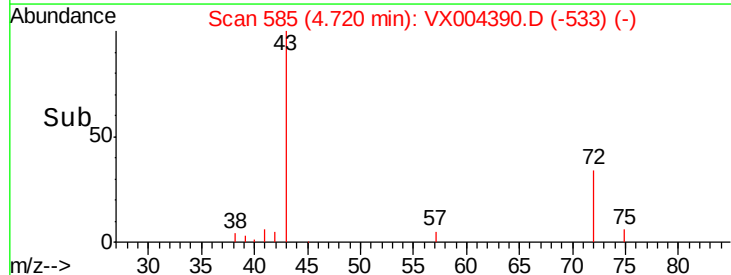
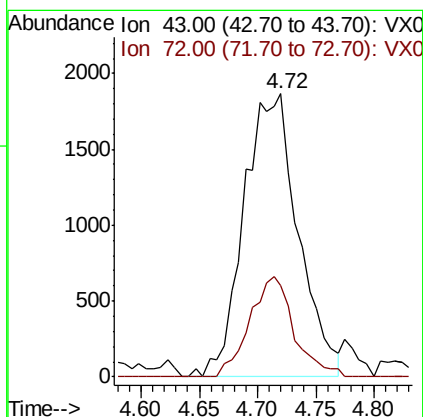
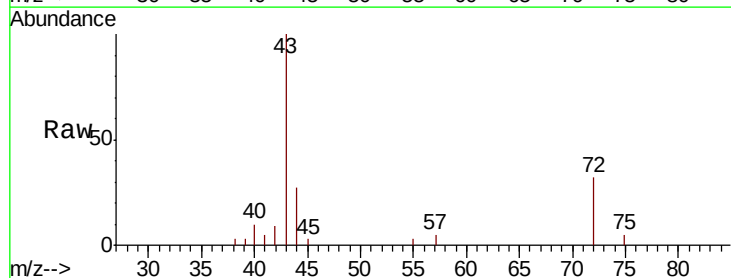
Ion	Ratio	Lower	Upper
84	100		
49	121.9	101.2	151.8
51	38.9	29.5	44.3
86	63.7	52.3	78.5

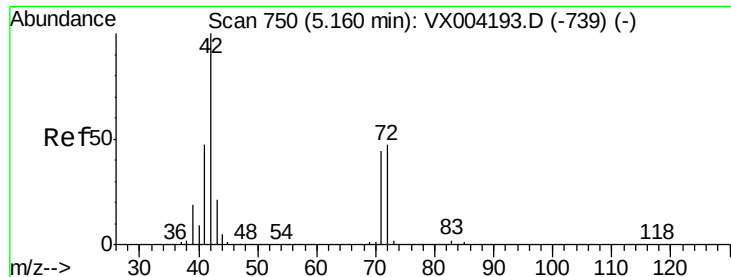


#25
2-Butanone
Concen: Below Cal
RT: 4.72 min Scan# 585
Delta R.T. 0.02 min
Lab File: VX004390.D
Acq: 06 Sep 2018 17:32

Tgt Ion: 43 Resp: 6060

Ion	Ratio	Lower	Upper
43	100		
72	32.3	22.0	33.0





#29

Tetrahydrofuran

Concen: 1.50 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX004390.D

Acq: 06 Sep 2018 17:32

Instrument :

MSVOA_X

ClientSampleId :

PB112611ZHE#02

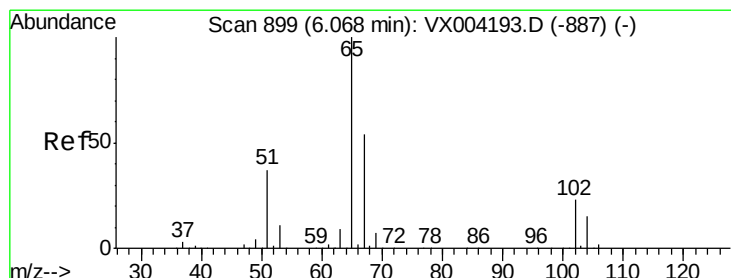
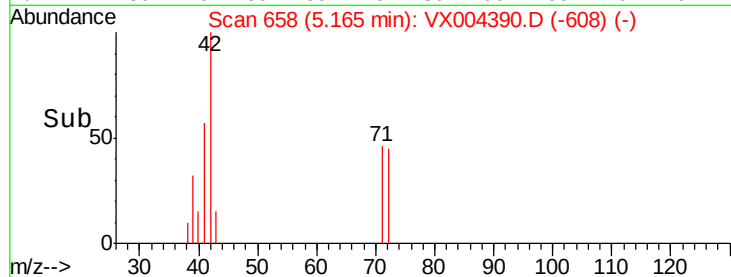
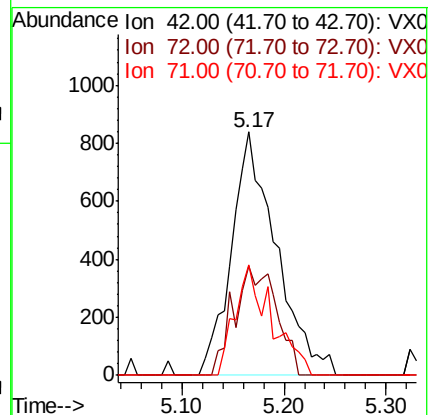
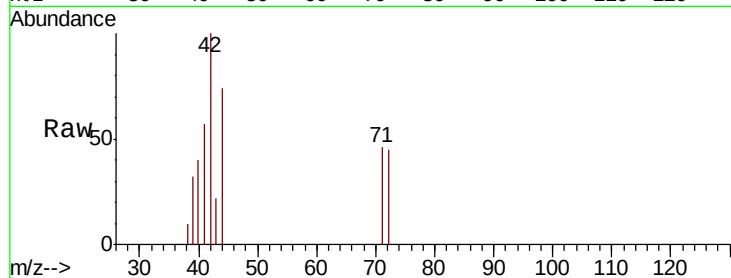
Tot Ion: 42 Resp: 2550

Ion Ratio Lower Upper

42 100

72 42.9 37.4 56.0

71 37.3 34.5 51.7



#33

1,2-Dichloroethane-d4

Concen: 53.57 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004390.D

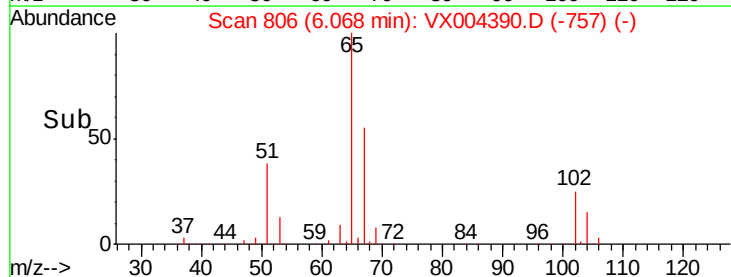
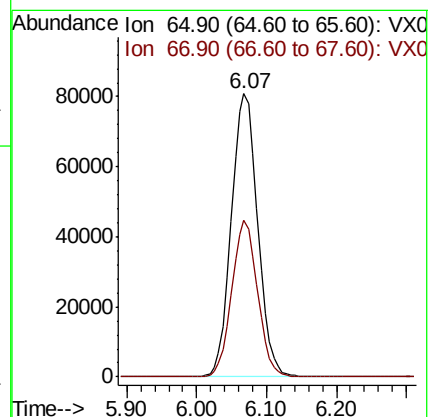
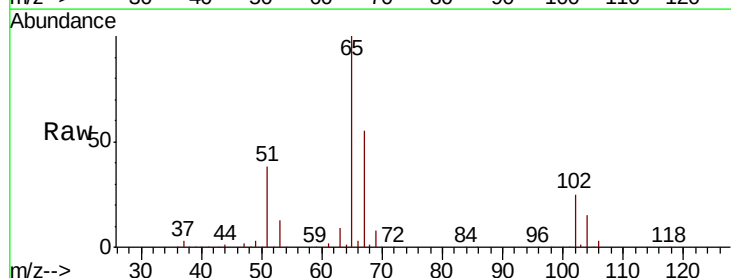
Acq: 06 Sep 2018 17:32

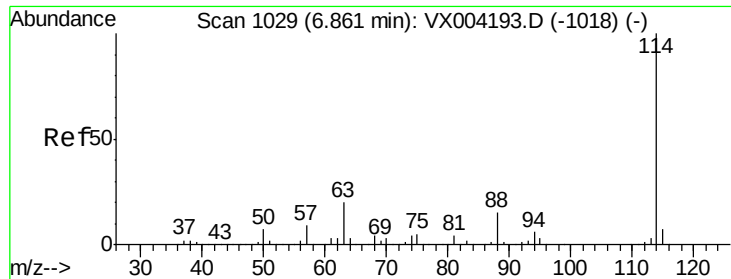
Tgt Ion: 65 Resp: 211876

Ion Ratio Lower Upper

65 100

67 54.0 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: VX004390.D

Acq: 06 Sep 2018 17:32

Instrument :

MSVOA_X

ClientSampleId :

PB112611ZHE#02

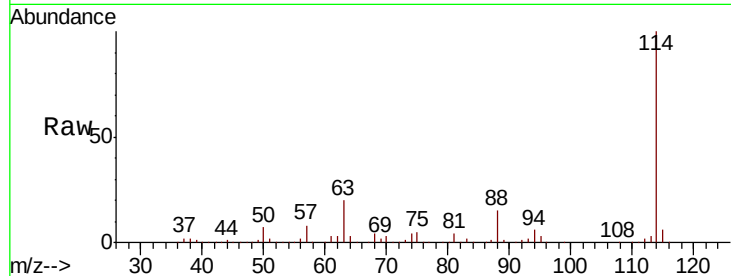
Tot Ion:114 Resp: 497928

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.0

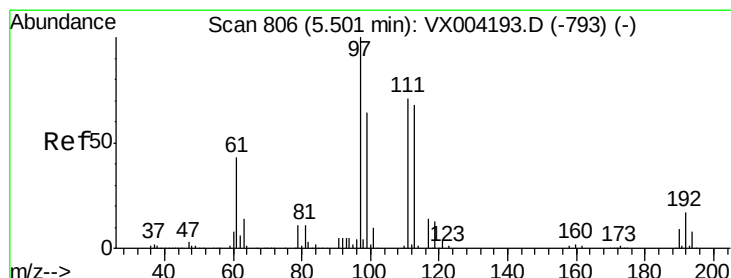
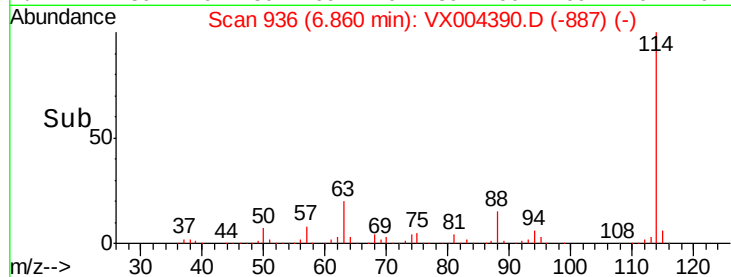
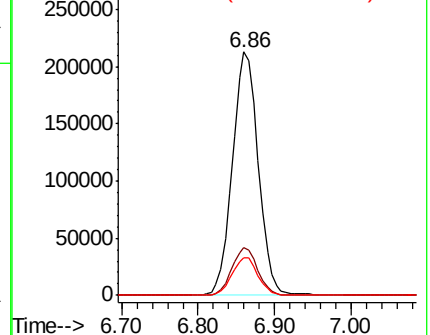
88 15.4 0.0 30.4



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: 50.50 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX004390.D

Acq: 06 Sep 2018 17:32

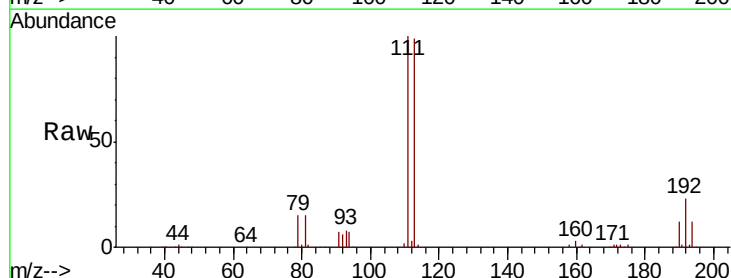
Tgt Ion:113 Resp: 187066

Ion Ratio Lower Upper

113 100

111 103.4 82.4 123.6

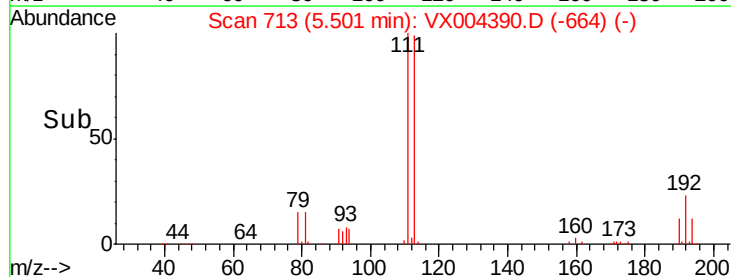
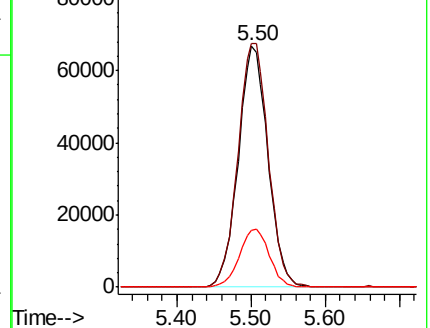
192 24.3 19.4 29.2

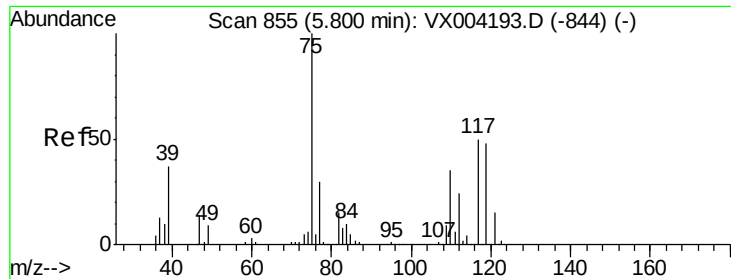


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

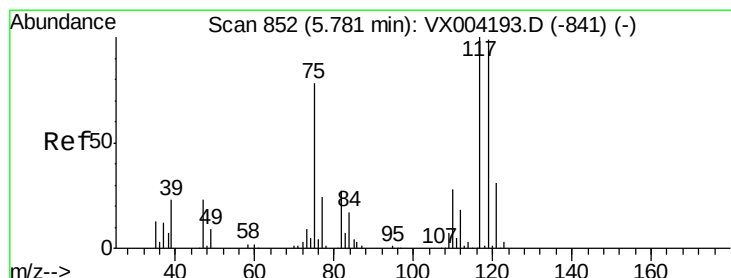
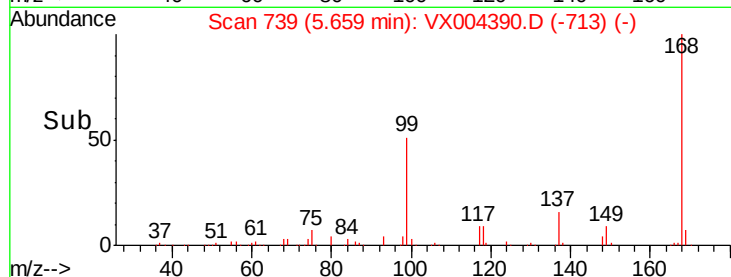
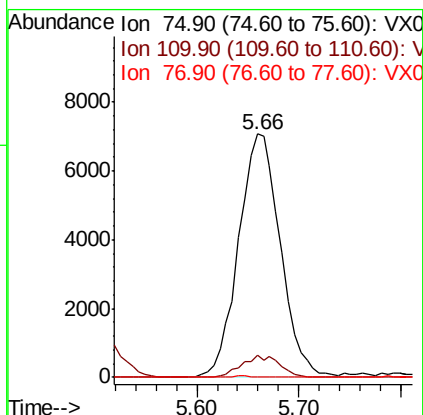
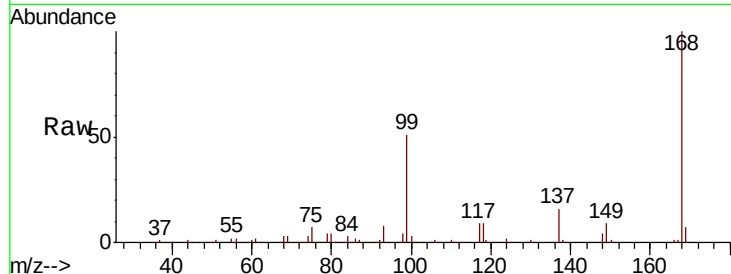




#36
 1,1-Dichloropropene
 Concen: 3.59 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX004390.D
 Acq: 06 Sep 2018 17:32

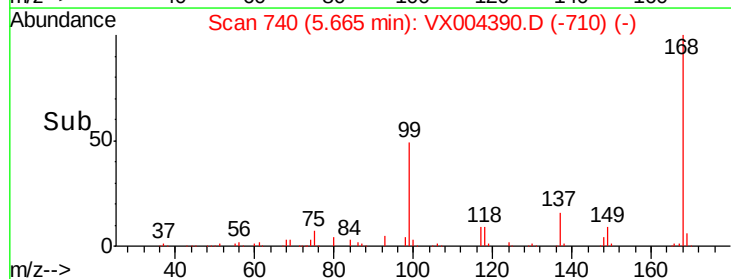
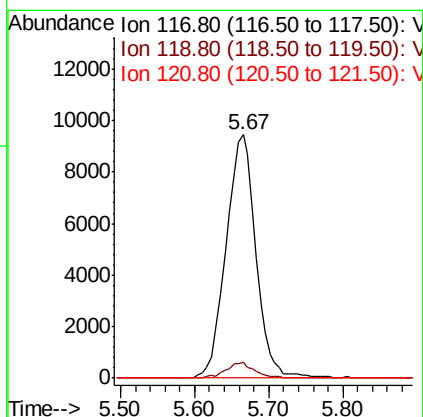
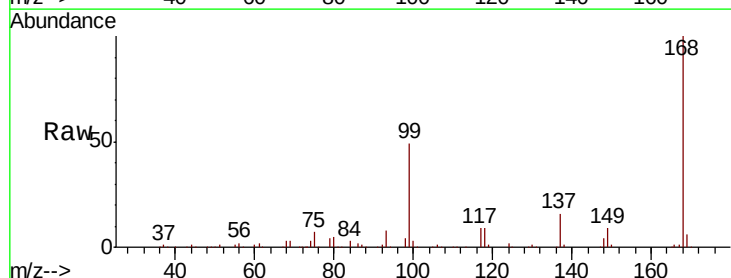
Instrument :
 MSVOA_X
 ClientSampleId :
 PB112611ZHE#02

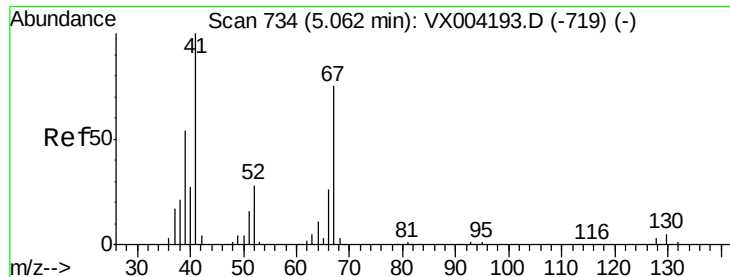
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.1	18.0	54.0#
77	0.2	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.02 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX004390.D
 Acq: 06 Sep 2018 17:32

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.7	78.8	118.2#
121	0.0	24.9	37.3#

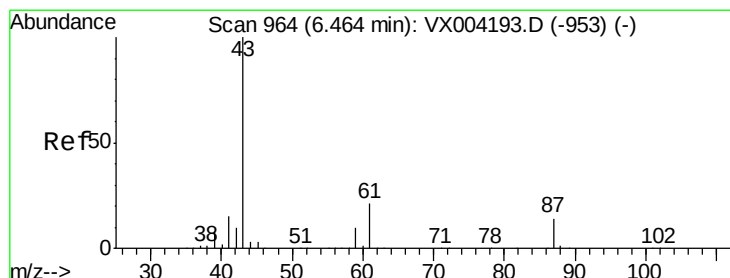
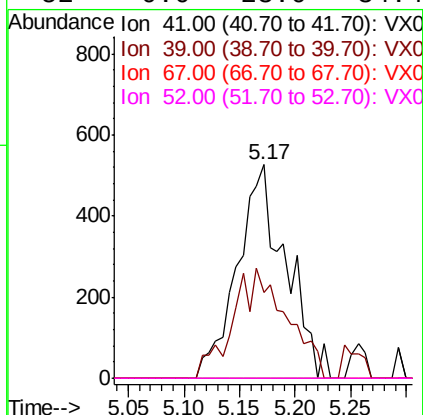
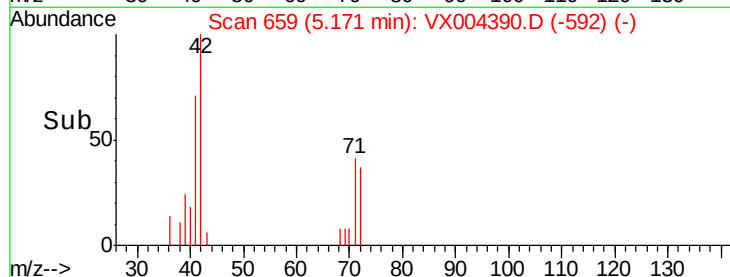
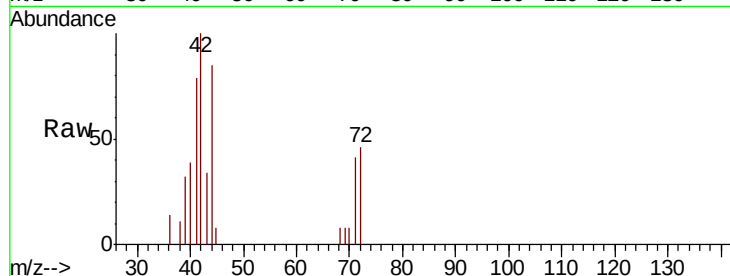




#41
Methacrylonitrile
Concen: 0.50 ug/l
RT: 5.17 min Scan# 659
Delta R.T. 0.11 min
Lab File: VX004390.D
Acq: 06 Sep 2018 17:32

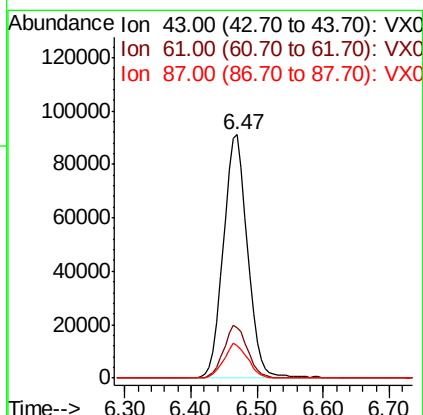
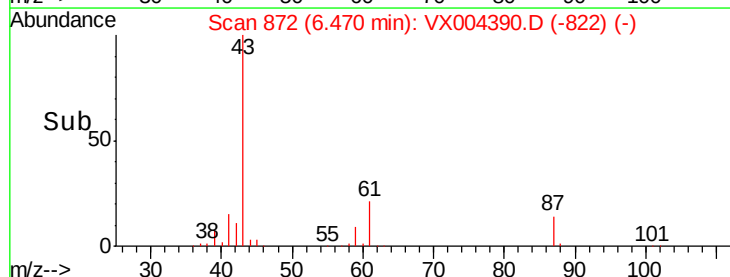
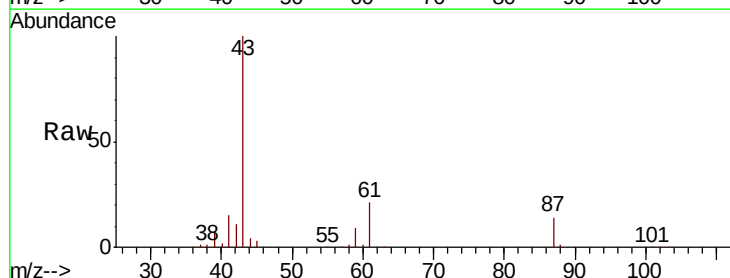
Instrument :
MSVOA_X
ClientSampleId :
PB112611ZHE#02

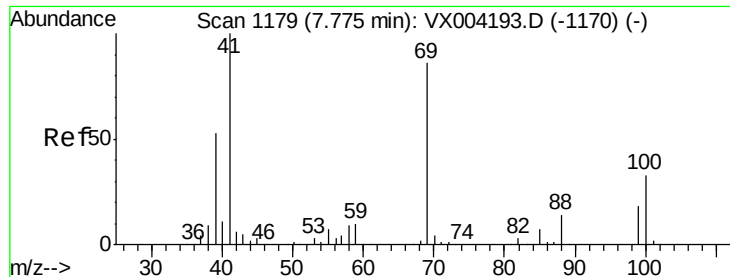
Tot Ion:	41	Resp:	1589
Ion	Ratio	Lower	Upper
41	100		
39	21.8	42.4	63.6#
67	0.0	59.2	88.8#
52	0.0	23.0	34.4#



#43
Isopropyl Acetate
Concen: 27.30 ug/l
RT: 6.47 min Scan# 872
Delta R.T. 0.01 min
Lab File: VX004390.D
Acq: 06 Sep 2018 17:32

Tgt Ion:	43	Resp:	230968
Ion	Ratio	Lower	Upper
43	100		
61	21.3	17.0	25.4
87	14.0	11.4	17.2

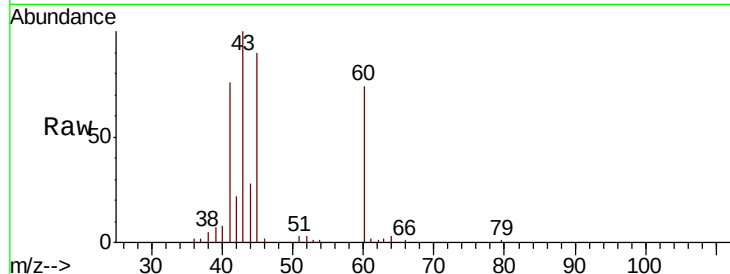




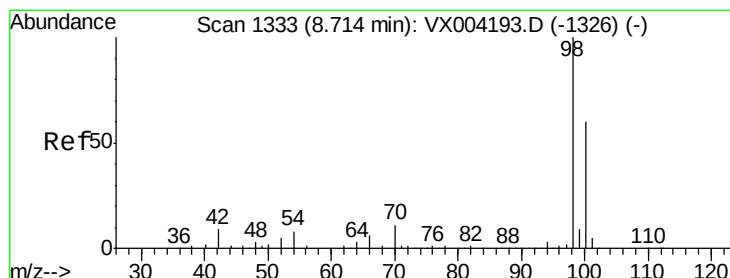
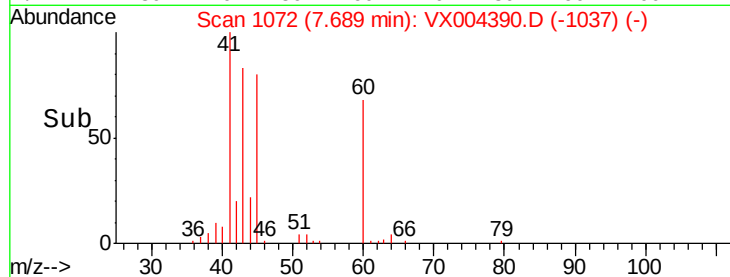
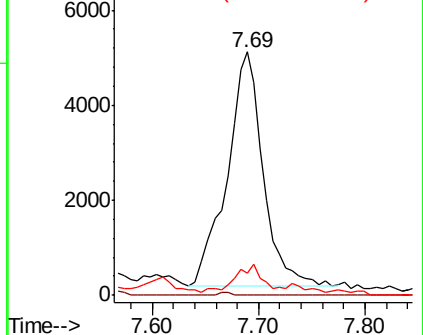
#48
Methvl methacrylate
Concen: 2.58 ug/l
RT: 7.69 min Scan# 1072
Delta R.T. -0.09 min
Lab File: VX004390.D
Acq: 06 Sep 2018 17:32

Instrument :
MSVOA_X
ClientSampleId :
PB112611ZHE#02

Tot Ion: 41 Resp: 11666
Ion Ratio Lower Upper
41 100
69 0.0 70.2 105.4#
39 9.2 42.7 64.1#

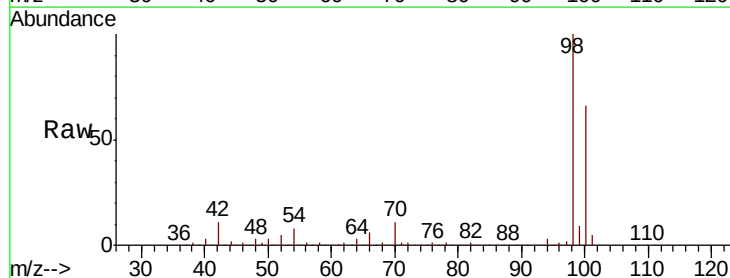


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

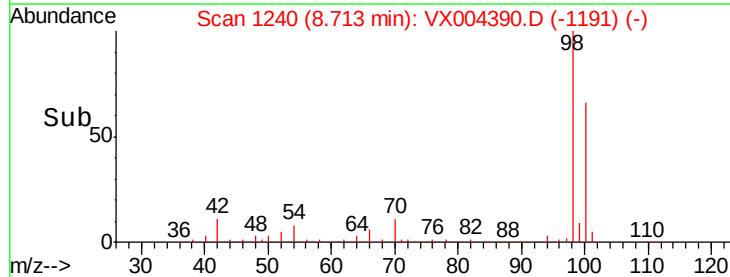
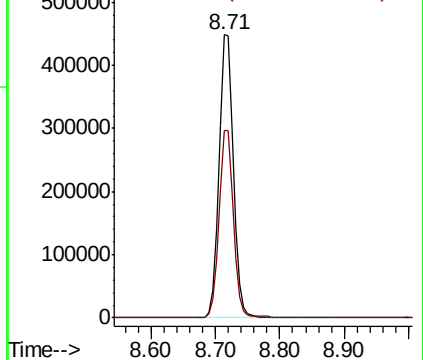


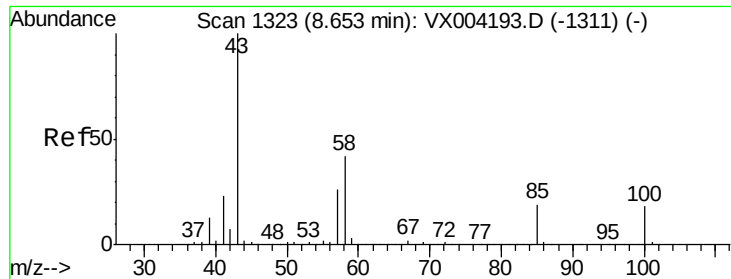
#50
Toluene-d8
Concen: 50.88 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX004390.D
Acq: 06 Sep 2018 17:32

Tgt Ion: 98 Resp: 711440
Ion Ratio Lower Upper
98 100
100 65.9 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: 0.56 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX004390.D

Acq: 06 Sep 2018 17:32

Instrument :

MSVOA_X

ClientSampleId :

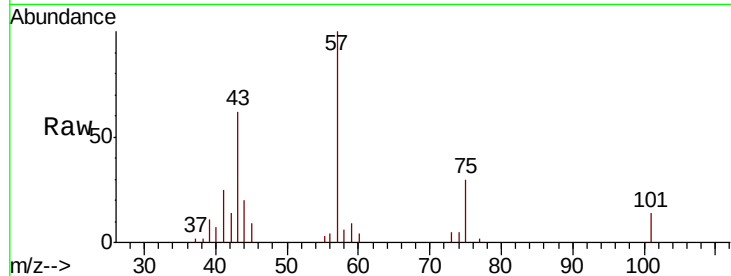
PB112611ZHE#02

Tot Ion: 43 Resp: 3442

Ion Ratio Lower Upper

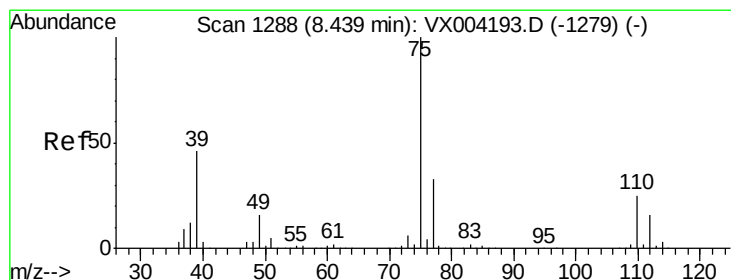
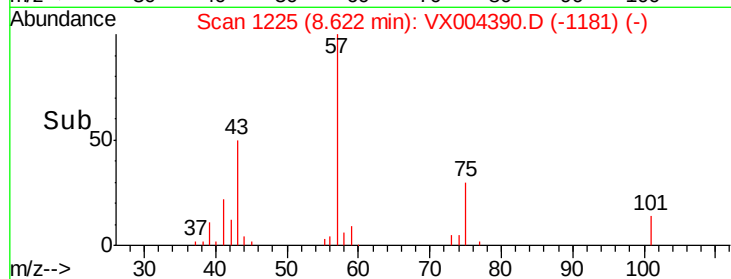
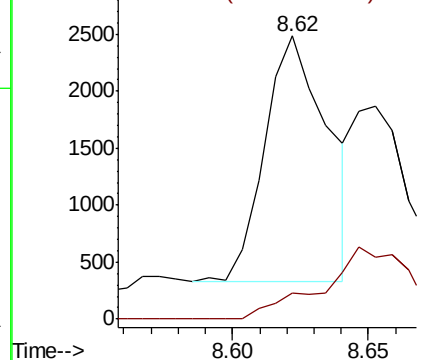
43 100

58 0.0 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#54

cis-1,3-Dichloropropene

Concen: 0.30 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.18 min

Lab File: VX004390.D

Acq: 06 Sep 2018 17:32

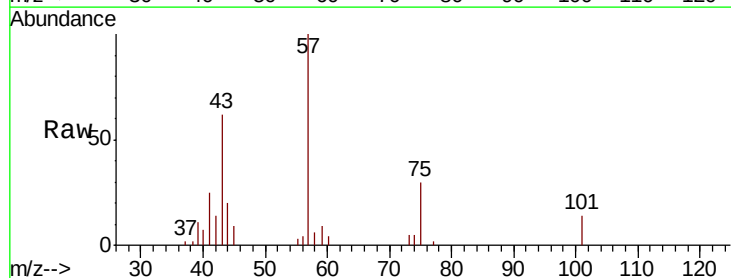
Tgt Ion: 75 Resp: 1883

Ion Ratio Lower Upper

75 100

77 7.8 26.2 39.2#

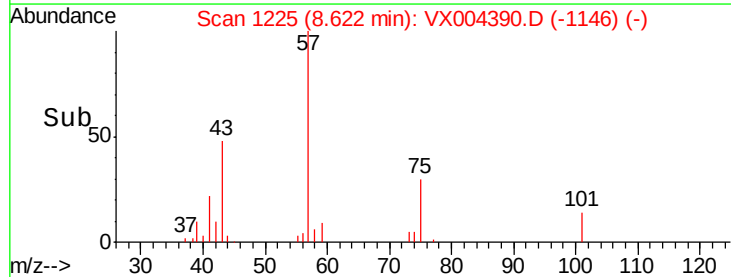
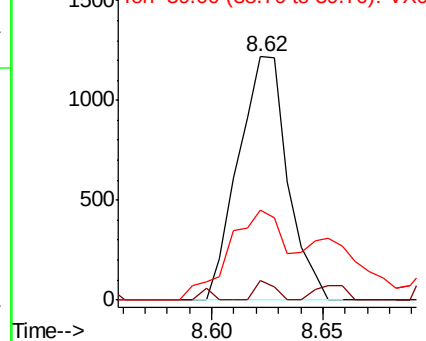
39 31.2 36.4 54.6#

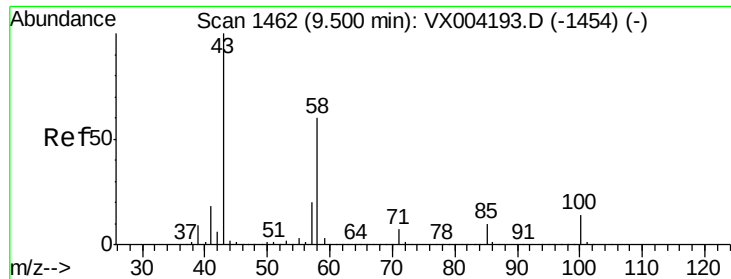


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

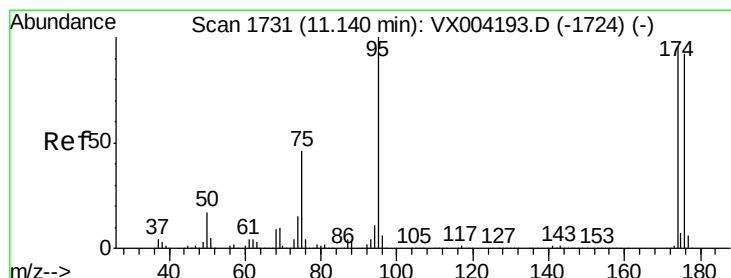
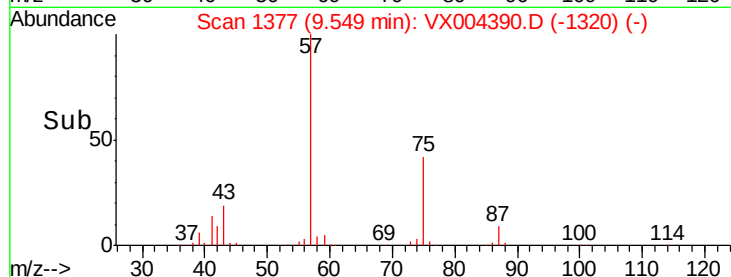
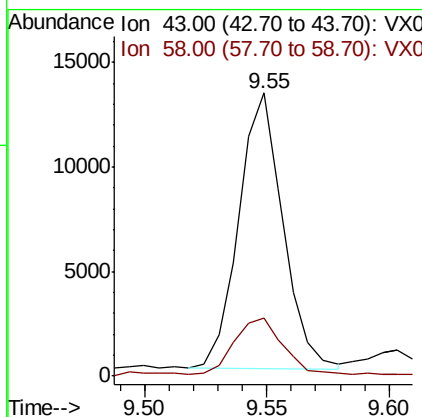
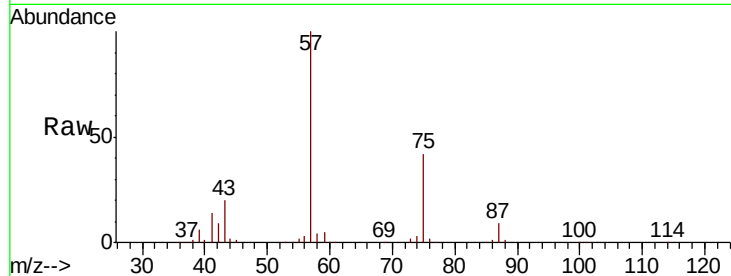




#59
2-Hexanone
Concen: 3.52 ug/l
RT: 9.55 min Scan# 1377
Delta R.T. 0.05 min
Lab File: VX004390.D
Acq: 06 Sep 2018 17:32

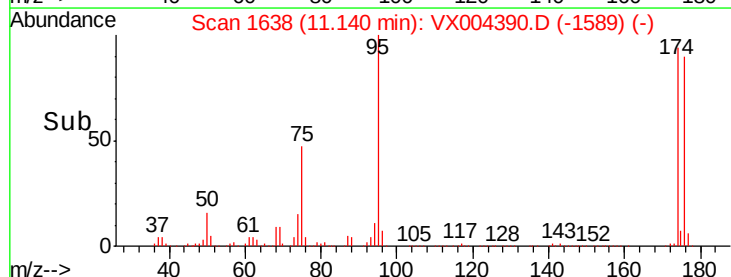
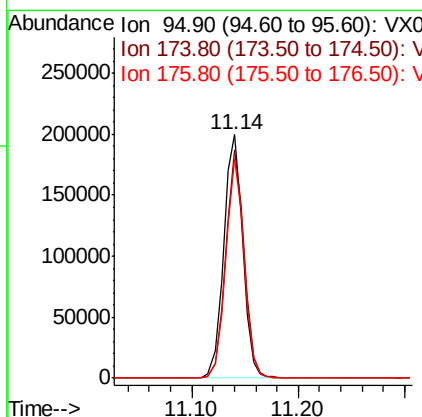
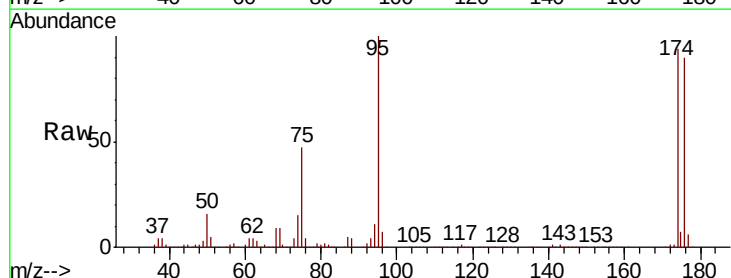
Instrument :
MSVOA_X
ClientSampleId :
PB112611ZHE#02

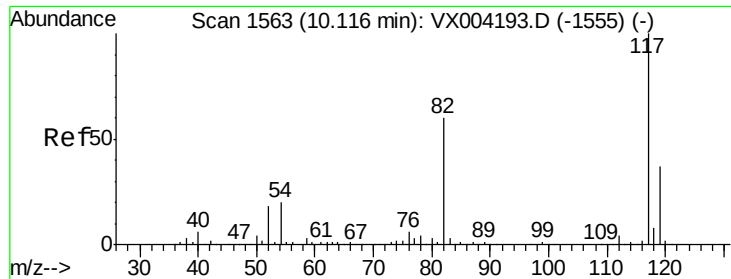
Tot Ion: 43 Resp: 16509
Ion Ratio Lower Upper
43 100
58 25.3 29.0 87.0#



#62
4-Bromofluorobenzene
Concen: 47.91 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004390.D
Acq: 06 Sep 2018 17:32

Tgt Ion: 95 Resp: 249974
Ion Ratio Lower Upper
95 100
174 91.2 0.0 185.2
176 87.2 0.0 178.6

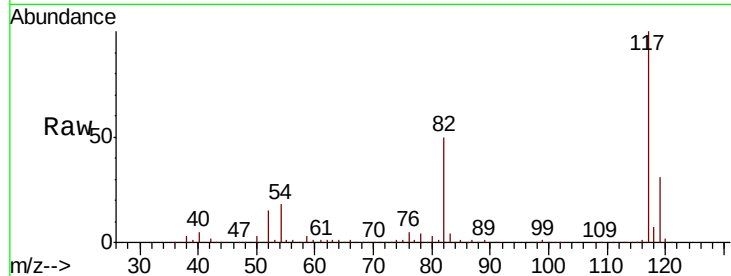




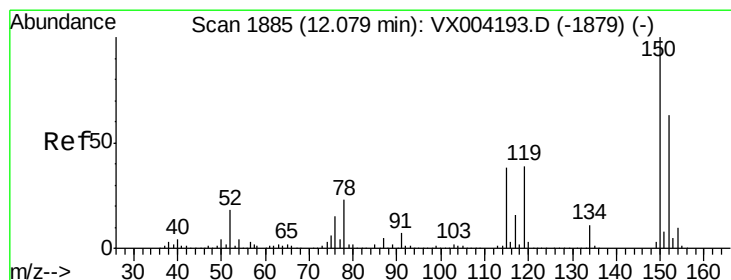
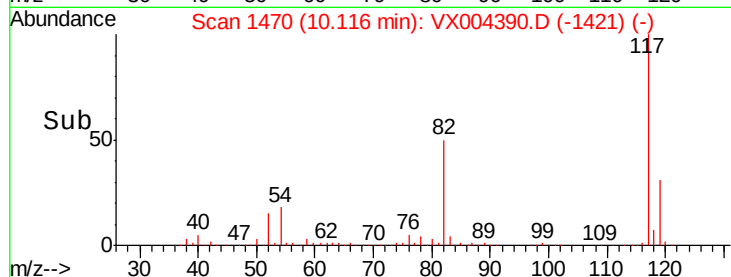
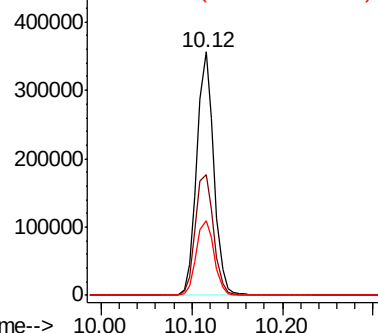
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004390.D
Acq: 06 Sep 2018 17:32

Instrument :
MSVOA_X
ClientSampleId :
PB112611ZHE#02

Tot Ion:117 Resp: 466474
Ion Ratio Lower Upper
117 100
82 49.6 47.8 71.6
119 30.6 29.3 43.9

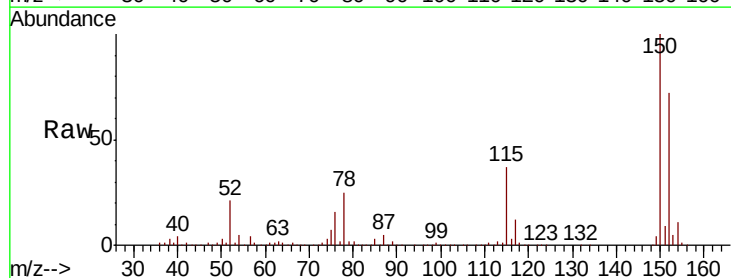


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

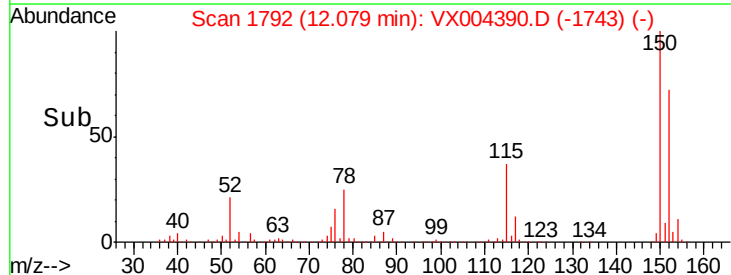
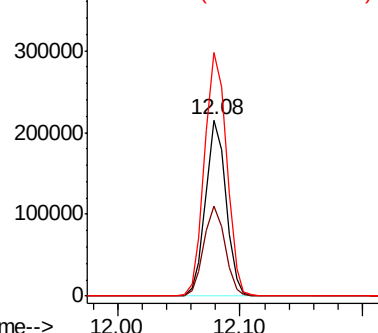


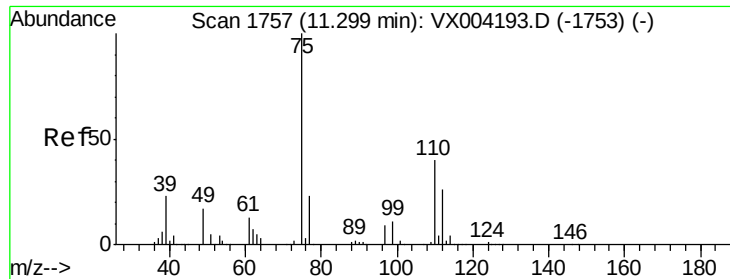
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX004390.D
Acq: 06 Sep 2018 17:32

Tgt Ion:152 Resp: 248017
Ion Ratio Lower Upper
152 100
115 53.3 39.0 117.0
150 149.5 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

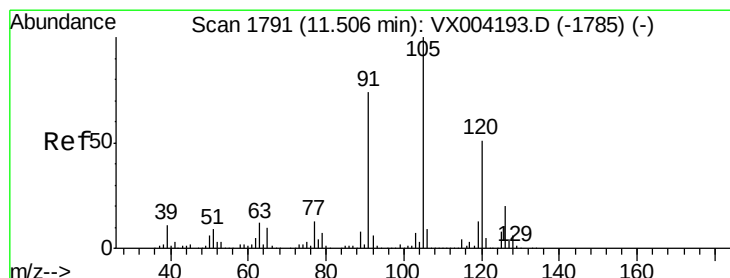
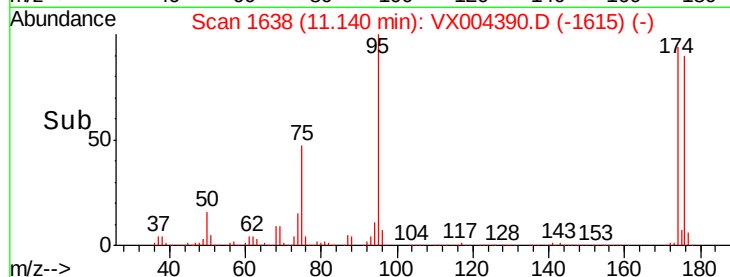
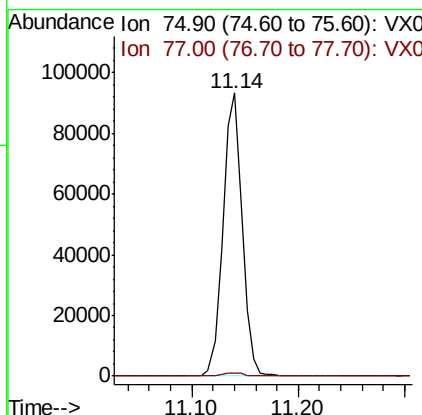
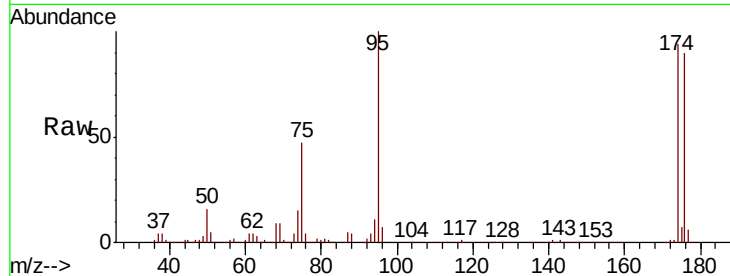




#76
 1,2,3-Trichloropropane
 Concen: 23.23 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.16 min
 Lab File: VX004390.D
 Acq: 06 Sep 2018 17:32

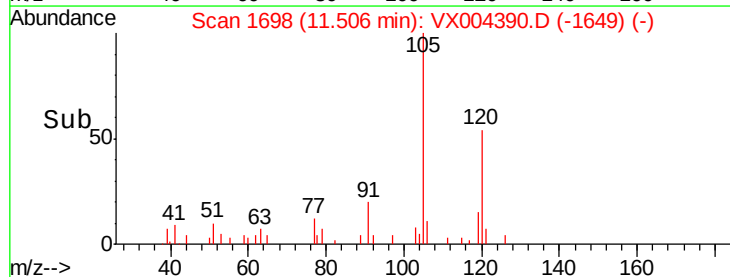
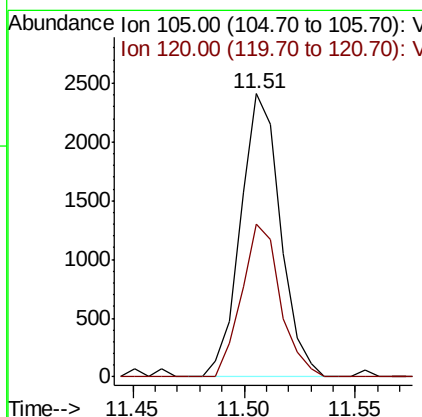
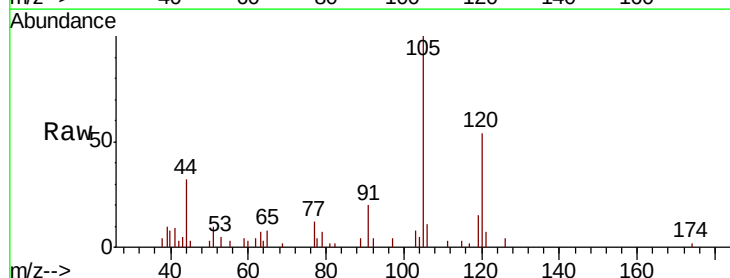
Instrument :
 MSVOA_X
 ClientSampleId :
 PB112611ZHE#02

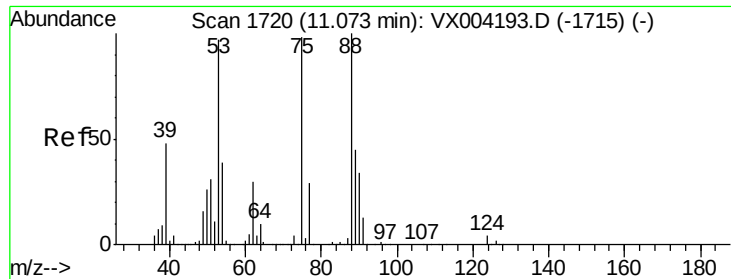
Tot Ion: 75 Resp: 117163
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.2 60.6#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.22 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX004390.D
 Acq: 06 Sep 2018 17:32

Tgt Ion: 105 Resp: 3015
 Ion Ratio Lower Upper
 105 100
 120 52.3 25.6 76.8





#81

trans-1,4-Dichloro-2-butene

Concen: 75.36 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX004390.D

Acq: 06 Sep 2018 17:32

Instrument :

MSVOA_X

ClientSampleId :

PB112611ZHE#02

Tot Ion: 75 Resp: 117163

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#

