

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090618\
 Data File : VX004389.D
 Acq On : 06 Sep 2018 17:06
 Operator : JC/MD
 Sample : PB112611ZHE#01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB112611ZHE#01

Quant Time: Sep 07 04:46:40 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	5.66	168	301741	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	492156	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	479393	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	253594	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	210574	53.54	ug/l	0.00
Spiked Amount			Recovery	=	107.08%	
35) Dibromofluoromethane	5.50	113	185057	50.54	ug/l	0.00
Spiked Amount			Recovery	=	101.08%	
50) Toluene-d8	8.71	98	701914	50.79	ug/l	0.00
Spiked Amount			Recovery	=	101.58%	
62) 4-Bromofluorobenzene	11.14	95	245727	47.65	ug/l	0.00
Spiked Amount			Recovery	=	95.30%	

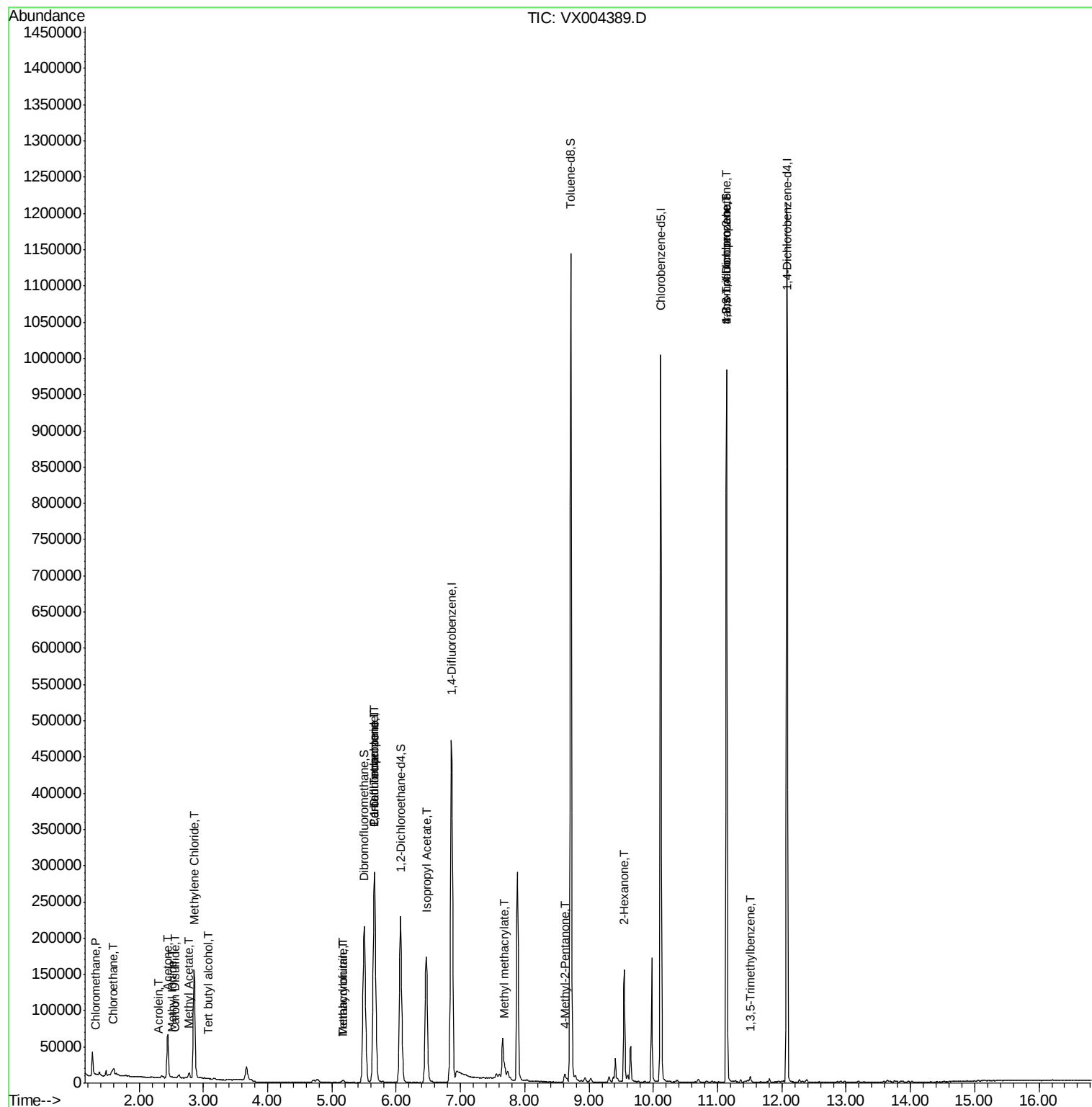
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1205	0.60	ug/l	98
5) Bromomethane	1.65	94	1432	Below Cal		85
6) Chloroethane	1.59	64	5955	2.83	ug/l #	52
10) Methyl Iodide	2.52	142	955	4.49	ug/l #	88
11) Tert butyl alcohol	3.07	59	1218	1.45	ug/l #	87
13) Acrolein	2.30	56	297	1.47	ug/l #	67
16) Acetone	2.45	43	64129	32.93	ug/l	100
17) Carbon Disulfide	2.56	76	1147	0.93	ug/l #	94
18) Methyl Acetate	2.78	43	8726	1.50	ug/l	93
20) Methylene Chloride	2.85	84	71051	18.77	ug/l	97
25) 2-Butanone	4.70	43	6392	Below Cal		96
29) Tetrahydrofuran	5.17	42	2466	1.46	ug/l	93
36) 1,1-Dichloropropene	5.66	75	19604	3.54	ug/l #	50
38) Carbon Tetrachloride	5.67	117	26090	5.01	ug/l #	15
41) Methacrylonitrile	5.17	41	1709	0.54	ug/l #	48
43) Isopropyl Acetate	6.46	43	231444	27.68	ug/l	100
48) Methyl methacrylate	7.69	41	11524	2.58	ug/l #	19
51) 4-Methyl-2-Pentanone	8.62	43	4127	0.68	ug/l #	34
59) 2-Hexanone	9.55	43	15963	3.44	ug/l #	58
76) 1,2,3-Trichloropropane	11.14	75	115407	22.38	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	3165	0.23	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.14	75	115407	72.60	ug/l #	10
94) Hexachlorobutadiene	13.79	225	242	Below Cal		96

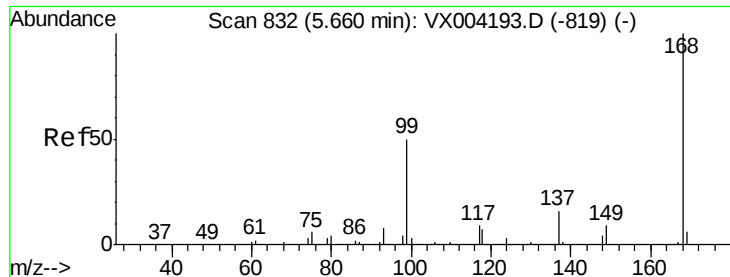
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX090618\
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Quant Time: Sep 07 04:46:40 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: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX004389.D

Acq: 06 Sep 2018 17:06

Instrument :

MSVOA_X

ClientSampleId :

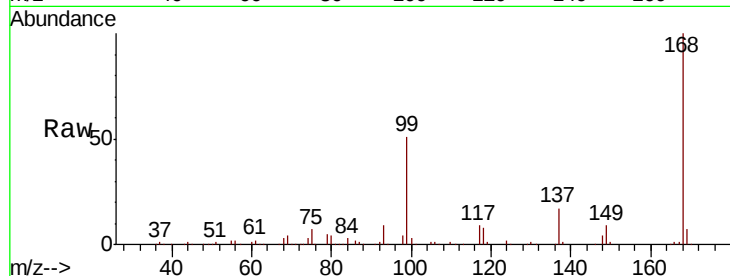
PB112611ZHE#01

Tot Ion:168 Resp: 301741

Ion Ratio Lower Upper

168 100

99 51.2 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

120000

100000

80000

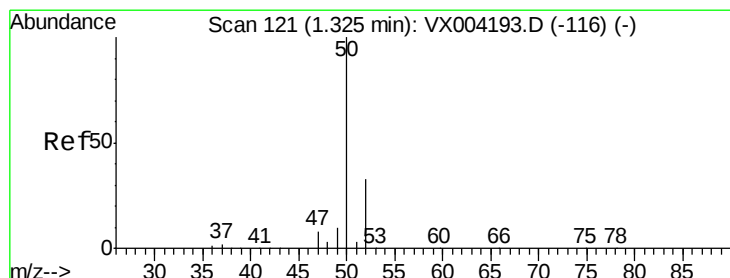
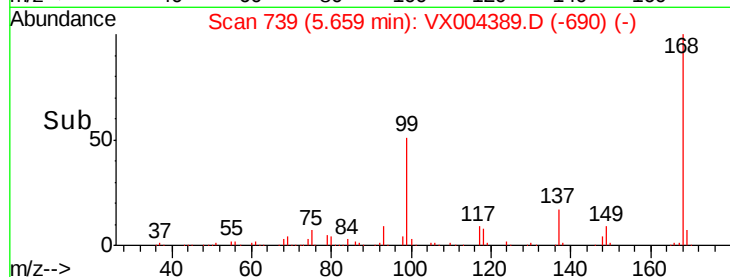
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.60 ug/l

RT: 1.32 min Scan# 27

Delta R.T. -0.01 min

Lab File: VX004389.D

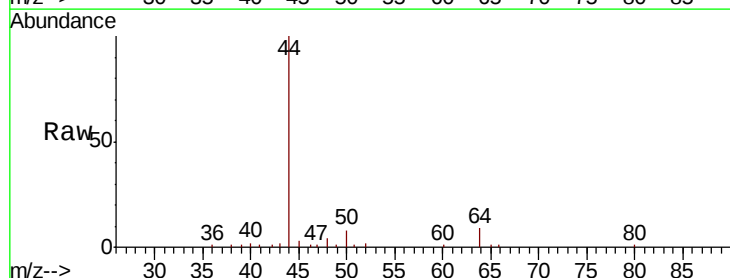
Acq: 06 Sep 2018 17:06

Tgt Ion: 50 Resp: 1205

Ion Ratio Lower Upper

50 100

52 31.4 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

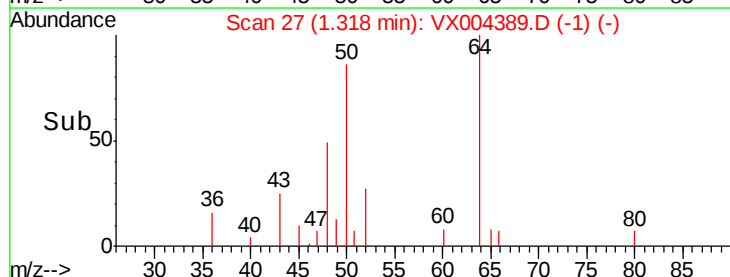
600

400

200

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004389.D

Acq: 06 Sep 2018 17:06

Instrument :

MSVOA_X

ClientSampleId :

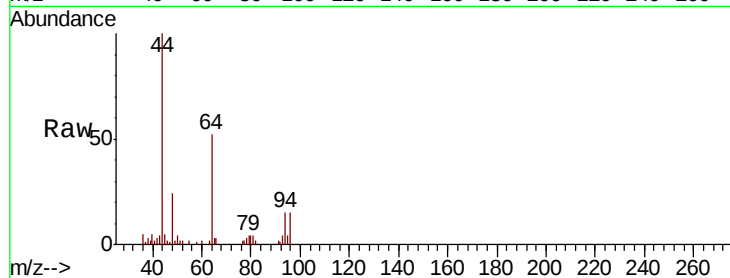
PB112611ZHE#01

Tot Ion: 94 Resp: 1432

Ion Ratio Lower Upper

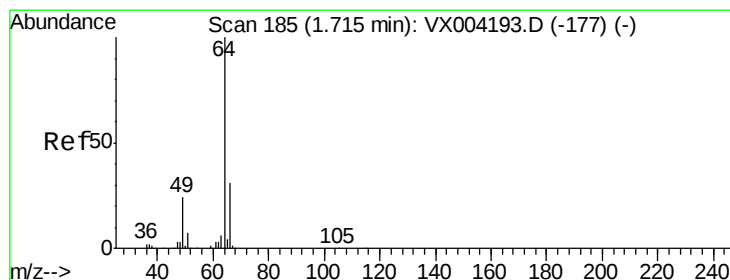
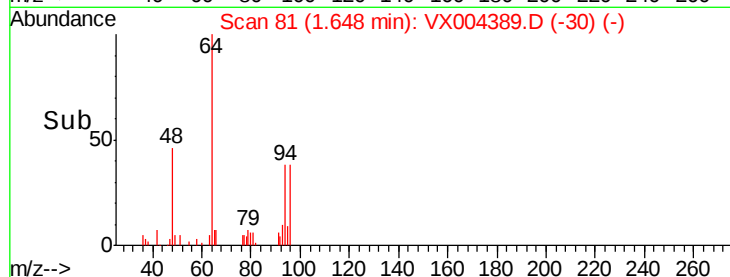
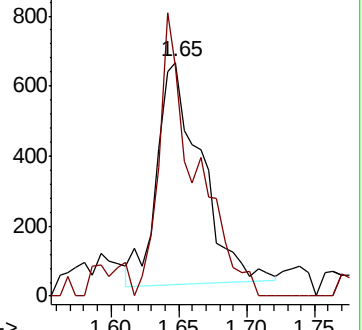
94 100

96 107.5 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: 1.59 min Scan# 72

Delta R.T. -0.12 min

Lab File: VX004389.D

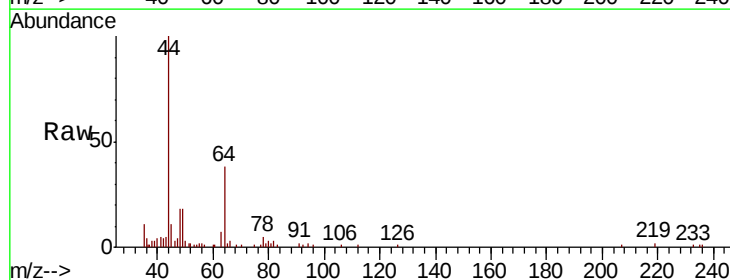
Acq: 06 Sep 2018 17:06

Tgt Ion: 64 Resp: 5955

Ion Ratio Lower Upper

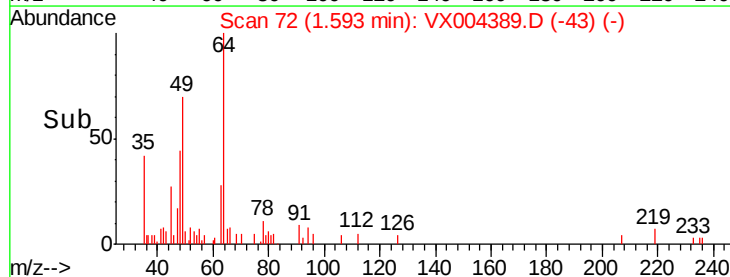
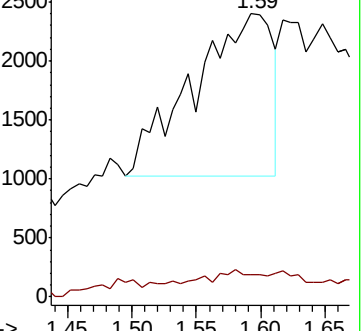
64 100

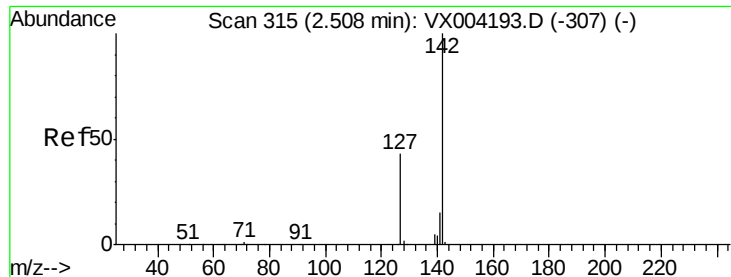
66 4.5 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

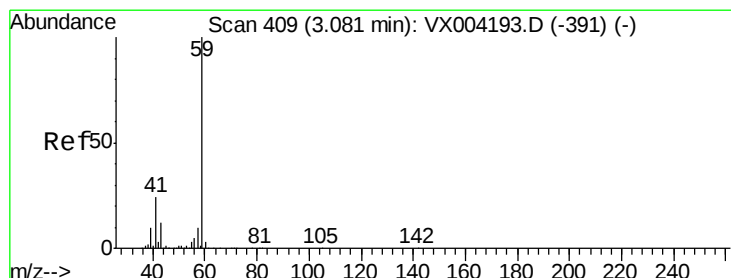
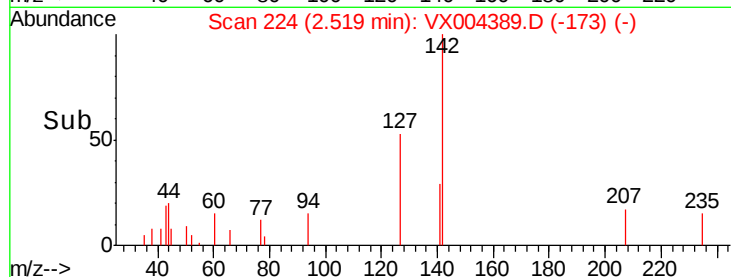
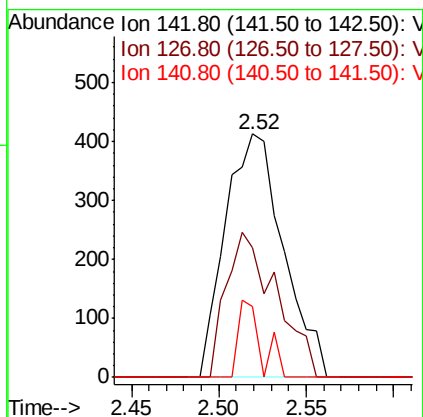
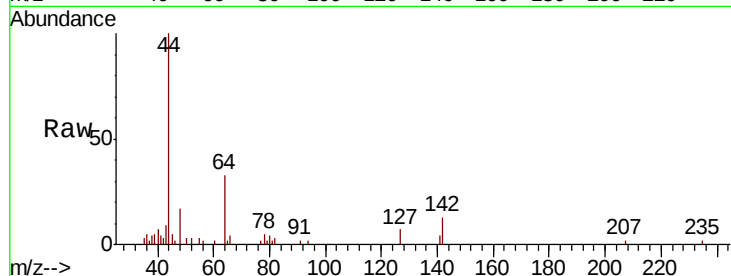




#10
Methyl Iodide
Concen: 4.49 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX004389.D
Acq: 06 Sep 2018 17:06

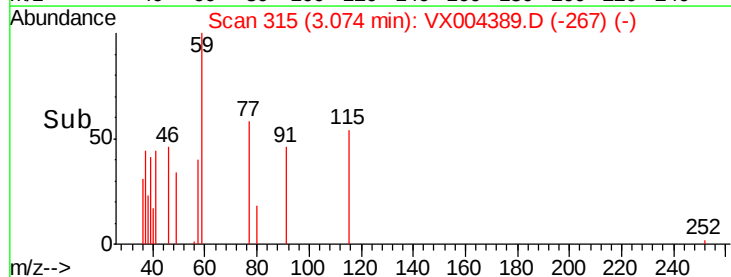
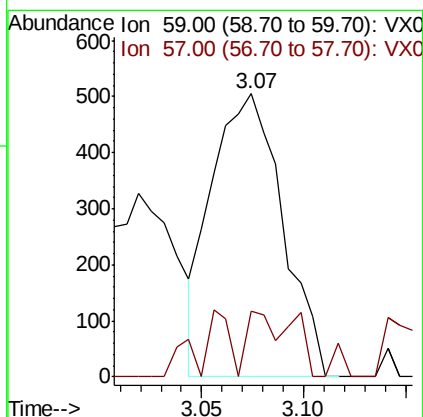
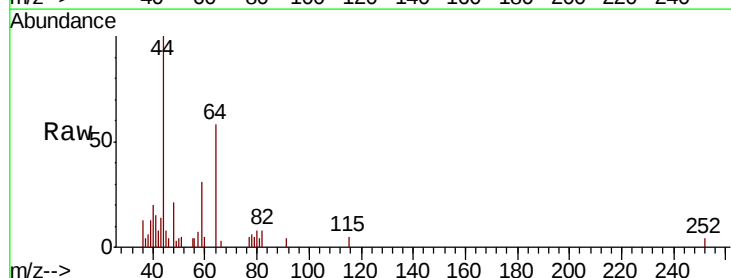
Instrument :
MSVOA_X
ClientSampleId :
PB112611ZHE#01

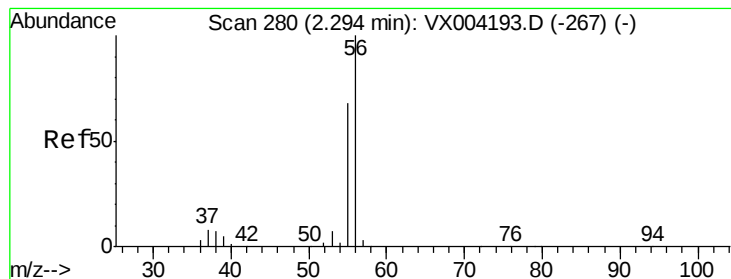
Tot Ion:142 Resp: 955
Ion Ratio Lower Upper
142 100
127 51.5 33.8 50.6#
141 12.7 11.4 17.0



#11
Tert butyl alcohol
Concen: 1.45 ug/l
RT: 3.07 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX004389.D
Acq: 06 Sep 2018 17:06

Tgt Ion: 59 Resp: 1218
Ion Ratio Lower Upper
59 100
57 15.0 8.2 12.4#





#13

Acrolein

Concen: 1.47 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX004389.D

Acq: 06 Sep 2018 17:06

Instrument :

MSVOA_X

ClientSampleId :

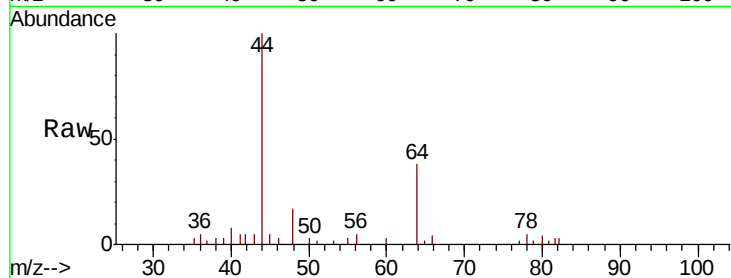
PB112611ZHE#01

Tot Ion: 56 Resp: 297

Ion Ratio Lower Upper

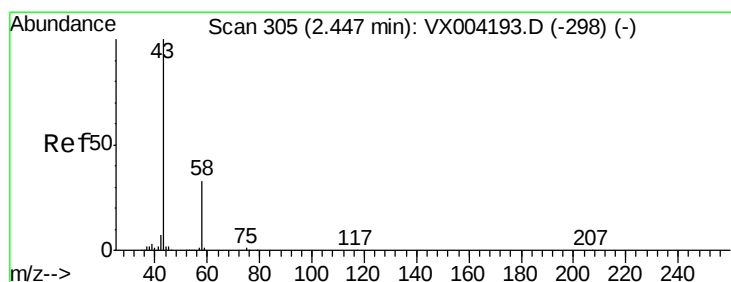
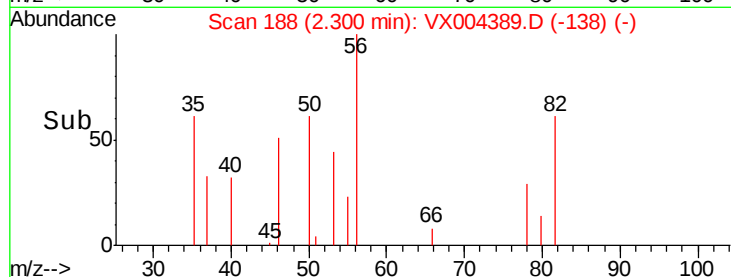
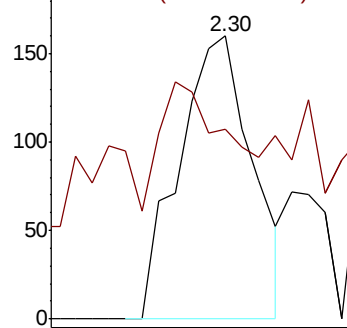
56 100

55 41.8 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: 32.93 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004389.D

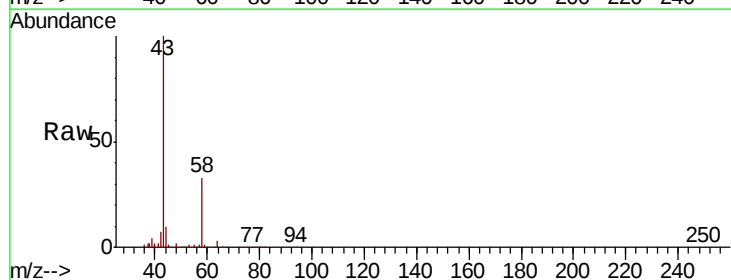
Acq: 06 Sep 2018 17:06

Tgt Ion: 43 Resp: 64129

Ion Ratio Lower Upper

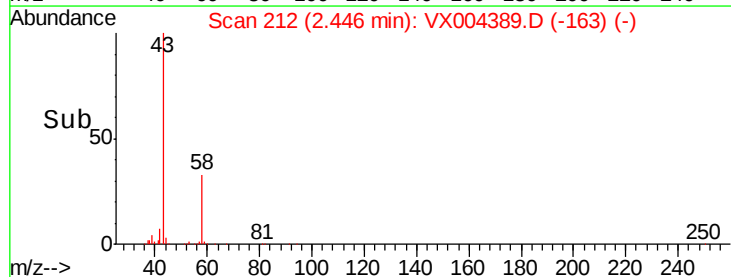
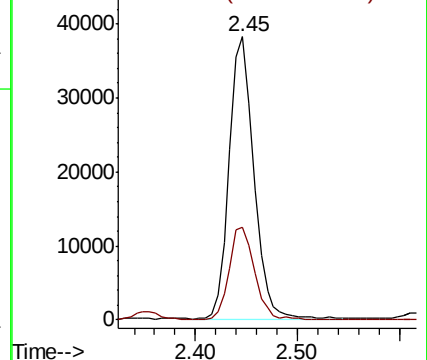
43 100

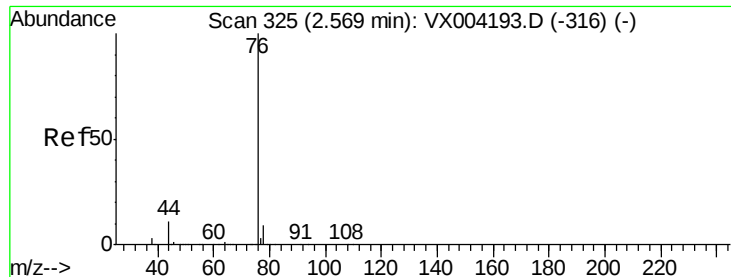
58 33.0 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

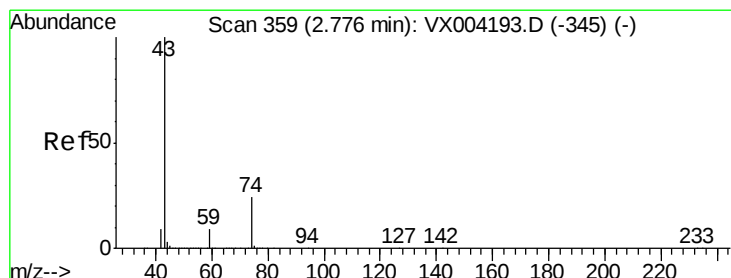
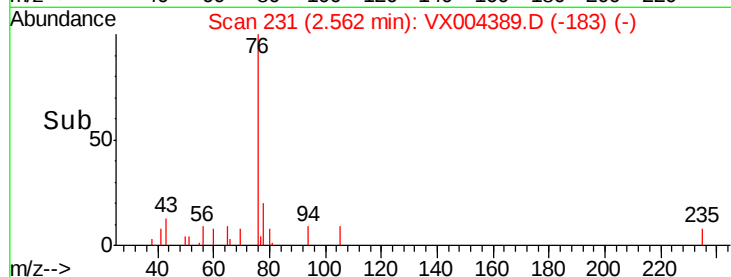
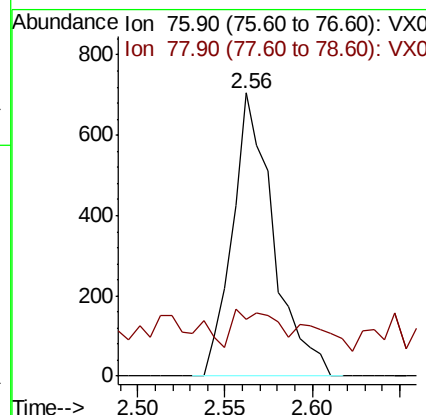
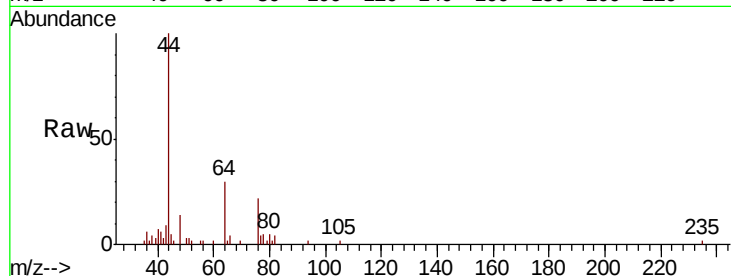




#17
Carbon Disulfide
Concen: 0.93 ug/l
RT: 2.56 min Scan# 231
Delta R.T. -0.01 min
Lab File: VX004389.D
Acq: 06 Sep 2018 17:06

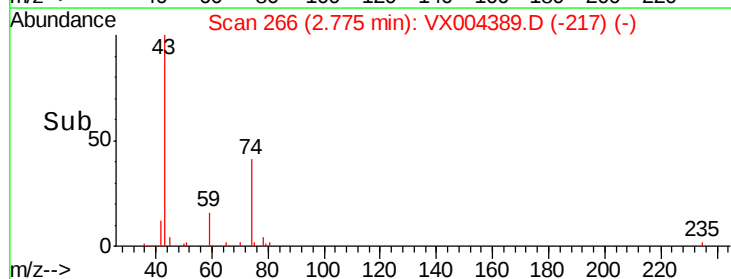
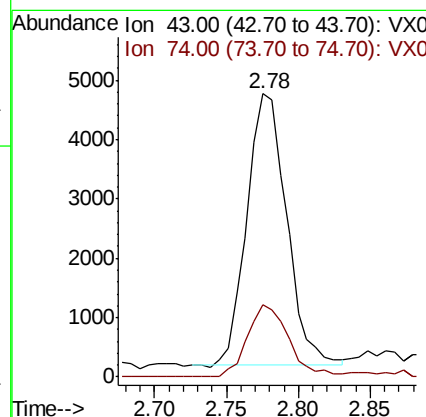
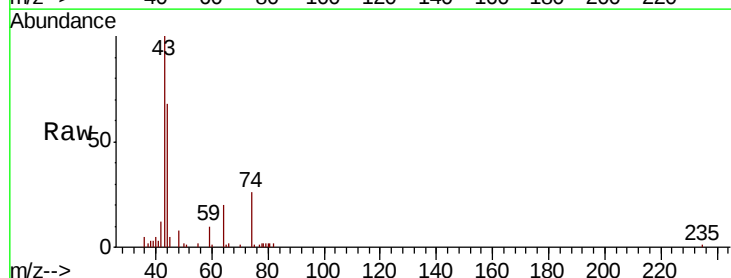
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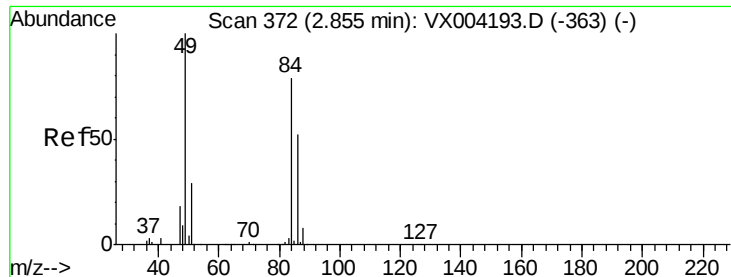
Tot Ion: 76 Resp: 1147
Ion Ratio Lower Upper
76 100
78 6.7 7.0 10.6#



#18
Methyl Acetate
Concen: 1.50 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX004389.D
Acq: 06 Sep 2018 17:06

Tgt Ion: 43 Resp: 8726
Ion Ratio Lower Upper
43 100
74 27.7 19.4 29.2

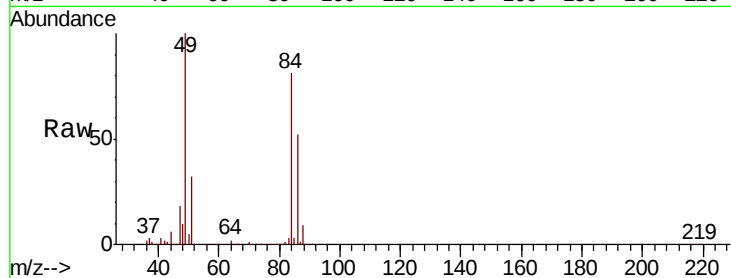




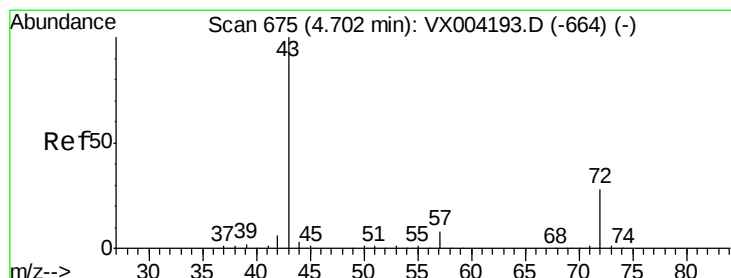
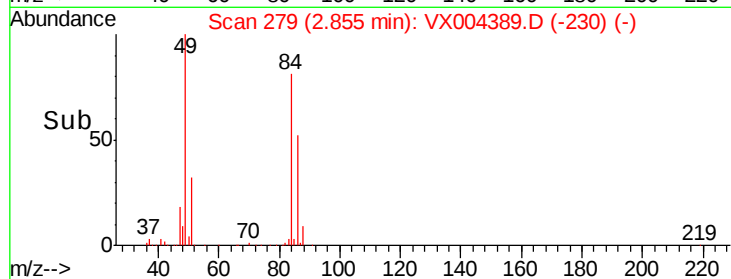
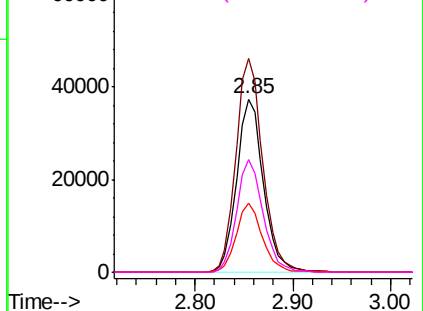
#20
Methylene Chloride
Concen: 18.77 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX004389.D
Acq: 06 Sep 2018 17:06

Instrument :
MSVOA_X
ClientSampleId :
PB112611ZHE#01

Tot Ion: 84 Resp: 71051
Ion Ratio Lower Upper
84 100
49 123.2 101.2 151.8
51 39.6 29.5 44.3
86 64.8 52.3 78.5

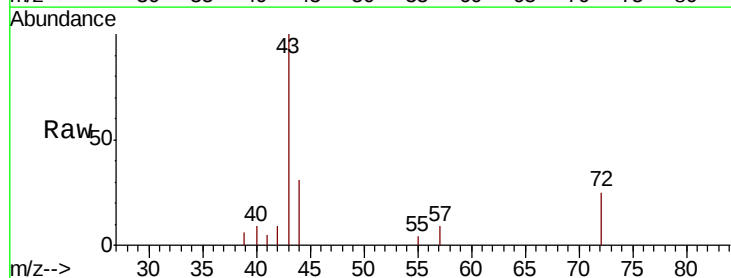


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

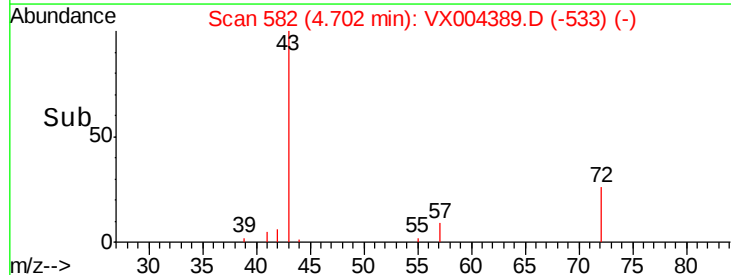
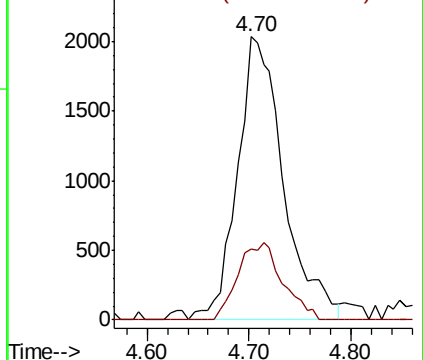


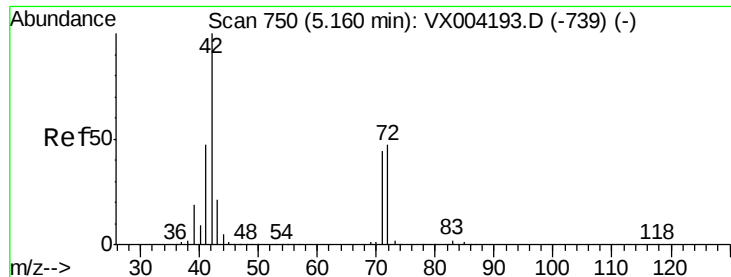
#25
2-Butanone
Concen: Below Cal
RT: 4.70 min Scan# 582
Delta R.T. -0.00 min
Lab File: VX004389.D
Acq: 06 Sep 2018 17:06

Tgt Ion: 43 Resp: 6392
Ion Ratio Lower Upper
43 100
72 25.2 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: 1.46 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX004389.D

Acq: 06 Sep 2018 17:06

Instrument :

MSVOA_X

ClientSampleId :

PB112611ZHE#01

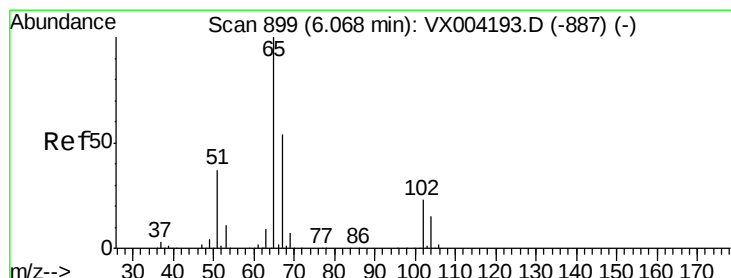
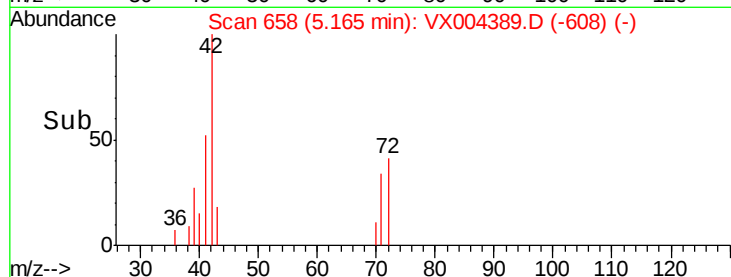
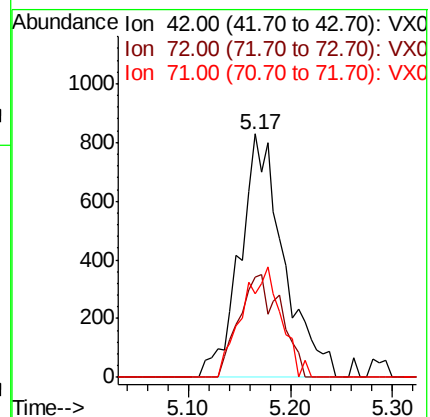
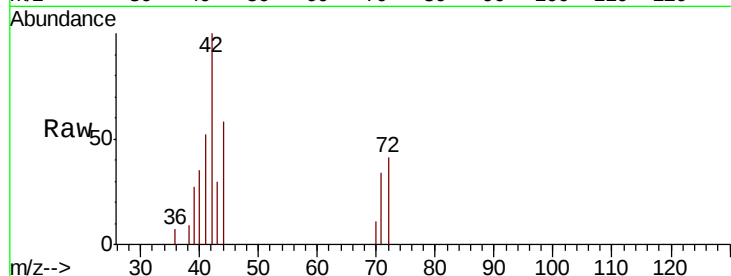
Tot Ion: 42 Resp: 2466

Ion Ratio Lower Upper

42 100

72 40.1 37.4 56.0

71 40.5 34.5 51.7



#33

1,2-Dichloroethane-d4

Concen: 53.54 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004389.D

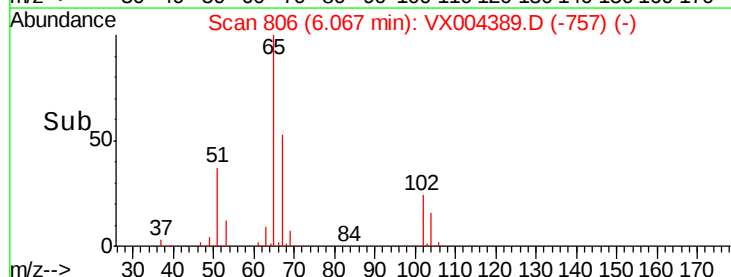
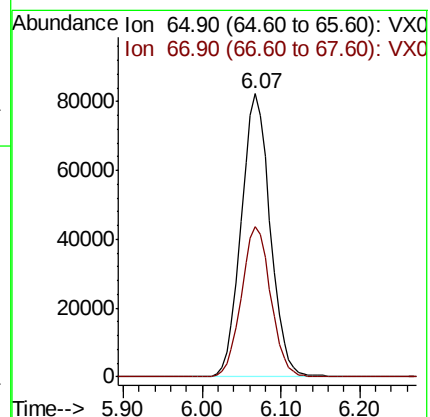
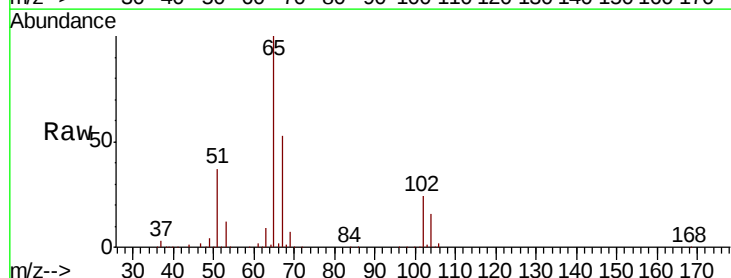
Acq: 06 Sep 2018 17:06

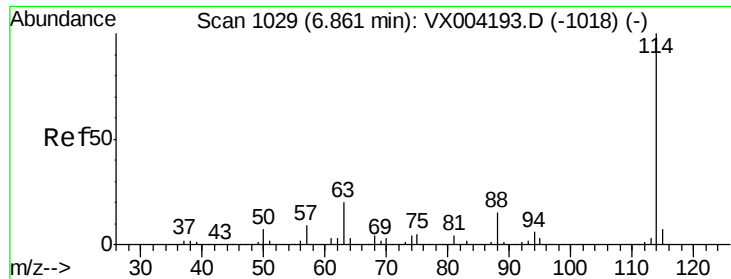
Tgt Ion: 65 Resp: 210574

Ion Ratio Lower Upper

65 100

67 53.7 0.0 106.8

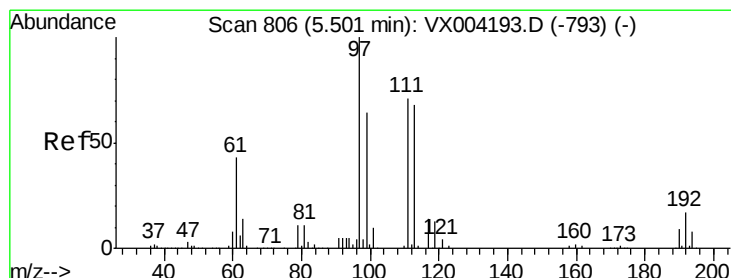
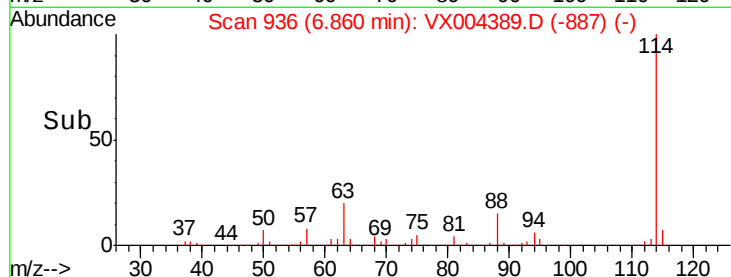
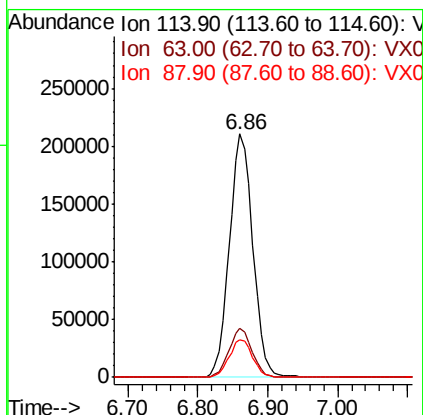
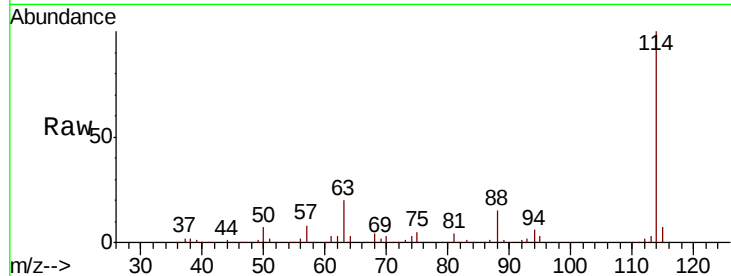




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004389.D
 Acq: 06 Sep 2018 17:06

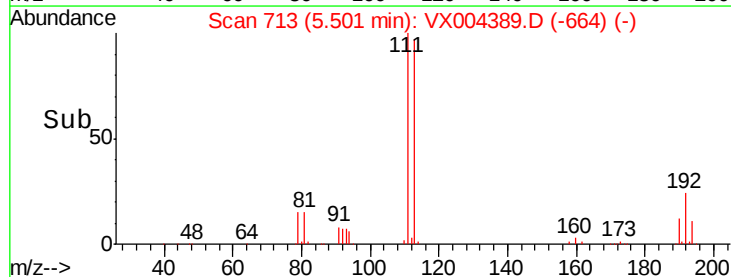
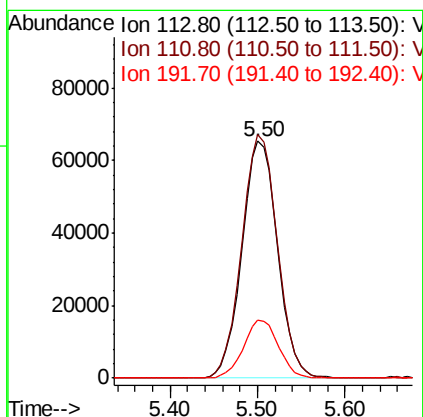
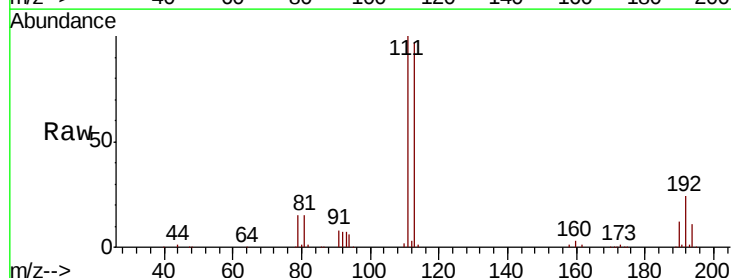
Instrument :
 MSVOA_X
 ClientSampleId :
 PB112611ZHE#01

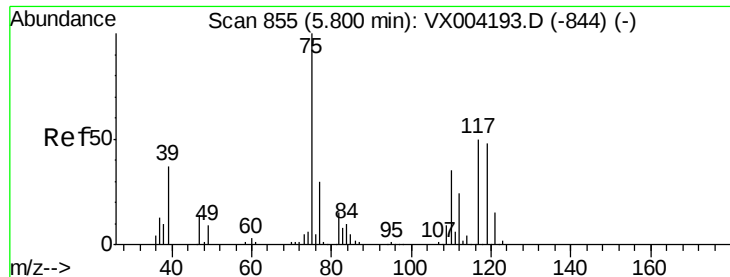
Tot Ion:114 Resp: 492156
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 39.0
 88 15.4 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 50.54 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004389.D
 Acq: 06 Sep 2018 17:06

Tgt Ion:113 Resp: 185057
 Ion Ratio Lower Upper
 113 100
 111 102.9 82.4 123.6
 192 24.3 19.4 29.2





#36

1,1-Dichloropropene

Concen: 3.54 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX004389.D

Acq: 06 Sep 2018 17:06

Instrument :

MSVOA_X

ClientSampleId :

PB112611ZHE#01

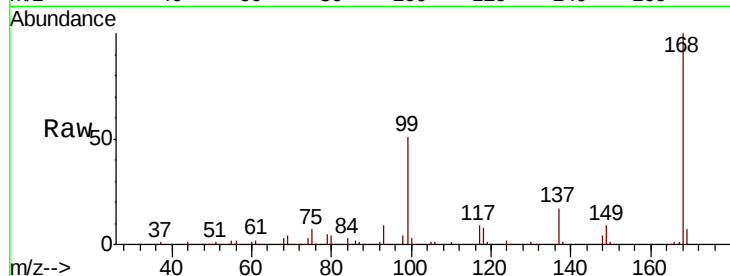
Tot Ion: 75 Resp: 19604

Ion Ratio Lower Upper

75 100

110 9.1 18.0 54.0#

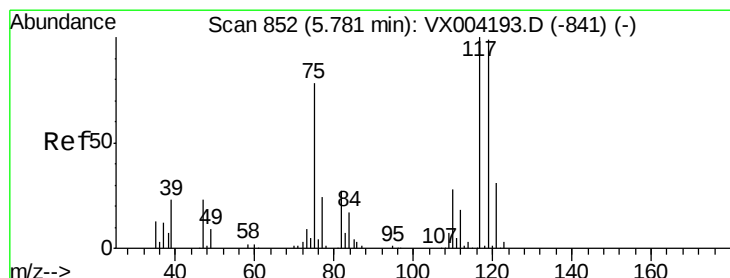
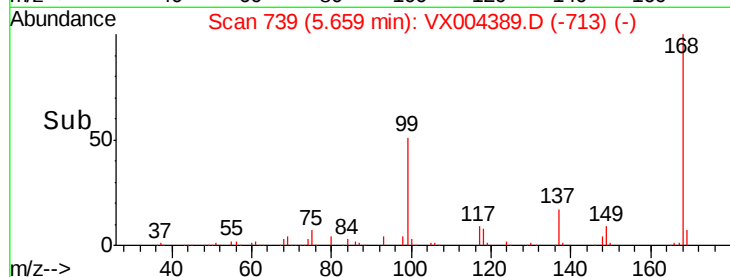
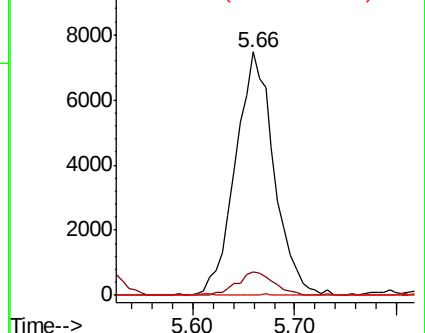
77 0.1 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 5.01 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004389.D

Acq: 06 Sep 2018 17:06

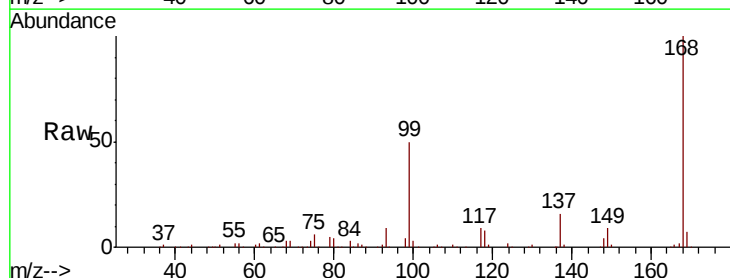
Tgt Ion: 117 Resp: 26090

Ion Ratio Lower Upper

117 100

119 5.7 78.8 118.2#

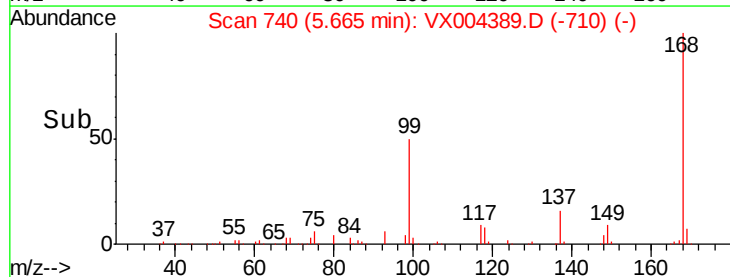
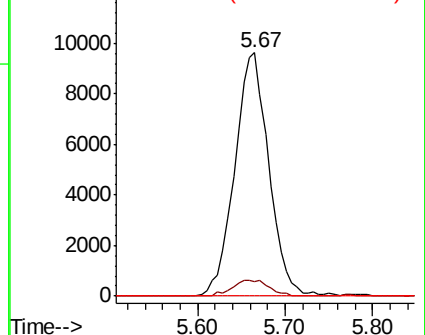
121 0.0 24.9 37.3#

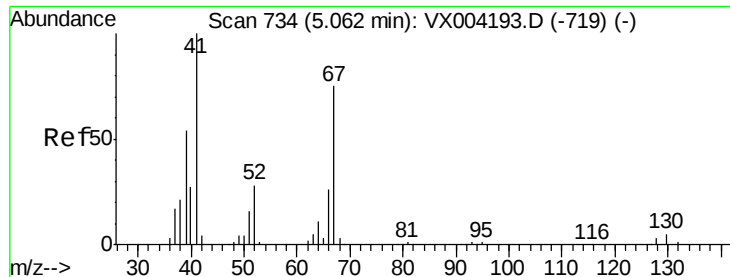


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#41

Methacrylonitrile

Concen: 0.54 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.11 min

Lab File: VX004389.D

Acq: 06 Sep 2018 17:06

Instrument :

MSVOA_X

ClientSampleId :

PB112611ZHE#01

Tot Ion: 41 Resp: 1709

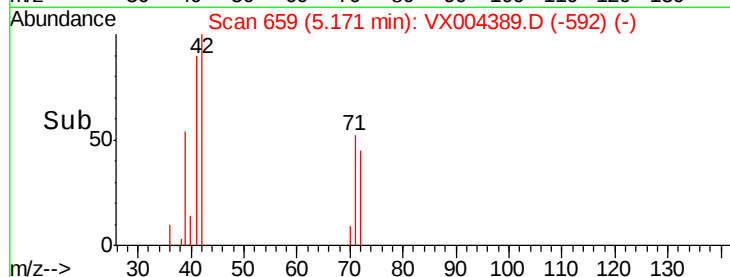
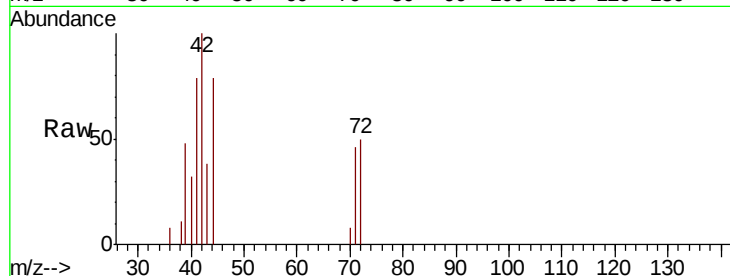
Ion Ratio Lower Upper

41 100

39 53.1 42.4 63.6

67 0.0 59.2 88.8#

52 0.0 23.0 34.4#

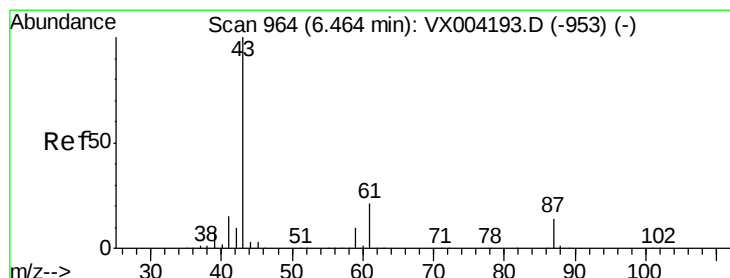
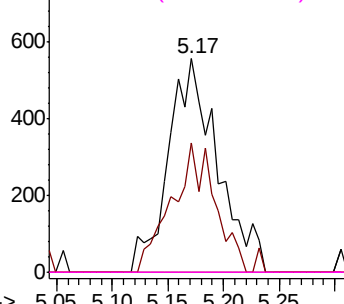


Abundance Ion 41.00 (40.70 to 41.70): VX0

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



#43

Isopropyl Acetate

Concen: 27.68 ug/l

RT: 6.46 min Scan# 871

Delta R.T. -0.00 min

Lab File: VX004389.D

Acq: 06 Sep 2018 17:06

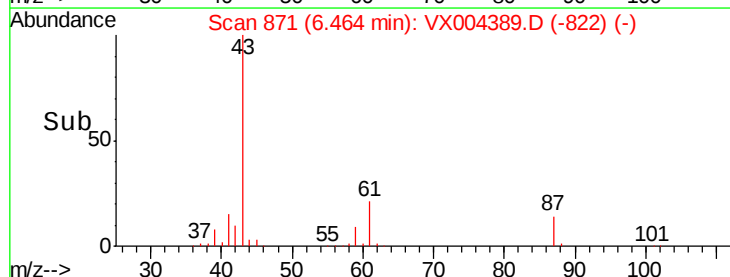
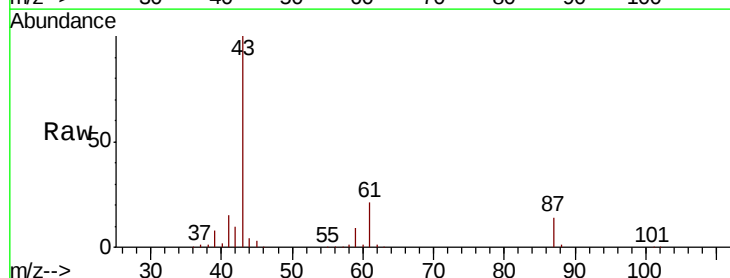
Tgt Ion: 43 Resp: 231444

Ion Ratio Lower Upper

43 100

61 21.1 17.0 25.4

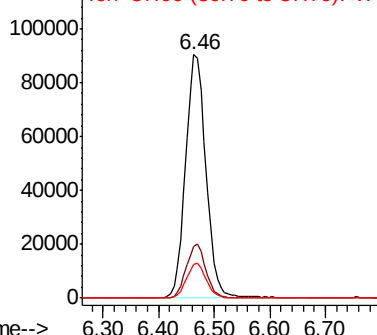
87 13.9 11.4 17.2

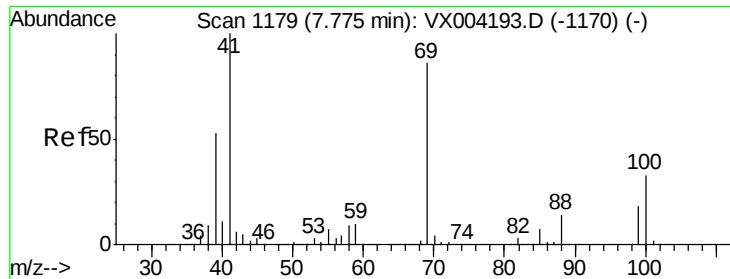


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

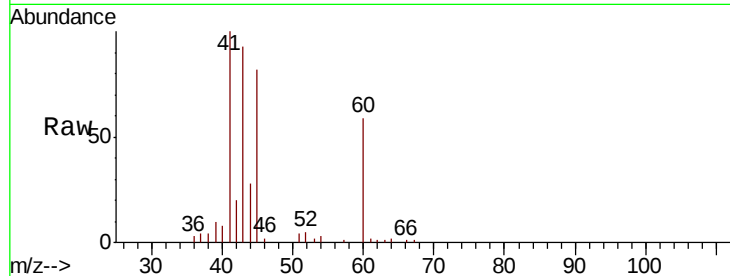




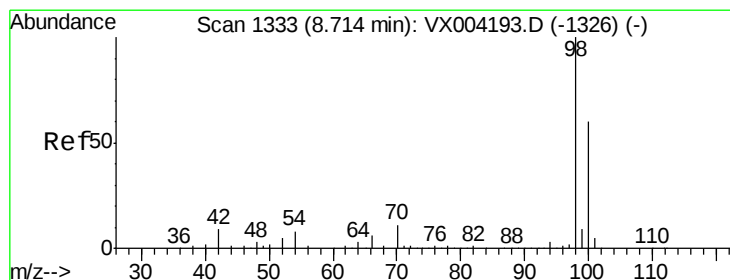
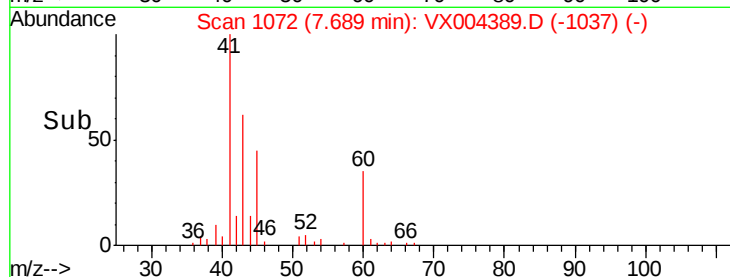
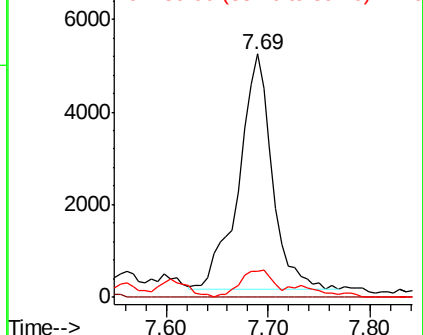
#48
Methvl methacrylate
Concen: 2.58 ug/l
RT: 7.69 min Scan# 1072
Delta R.T. -0.09 min
Lab File: VX004389.D
Acq: 06 Sep 2018 17:06

Instrument :
MSVOA_X
ClientSampleId :
PB112611ZHE#01

Tot Ion: 41 Resp: 11524
Ion Ratio Lower Upper
41 100
69 0.0 70.2 105.4#
39 11.5 42.7 64.1#

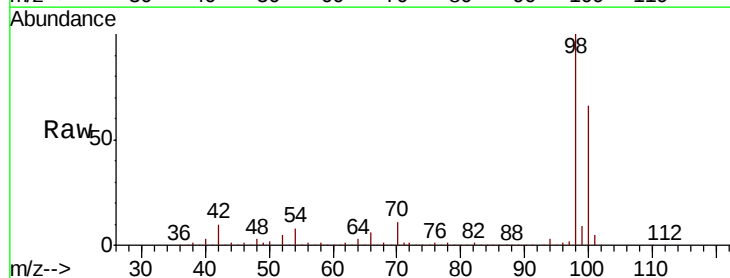


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

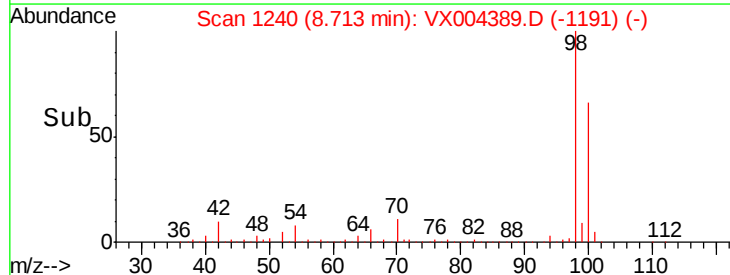
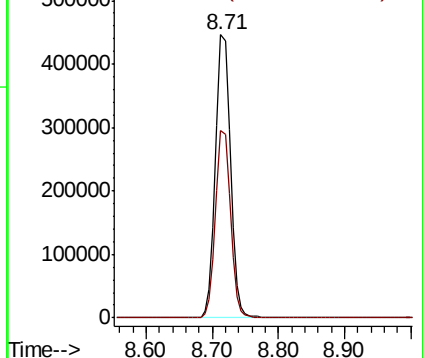


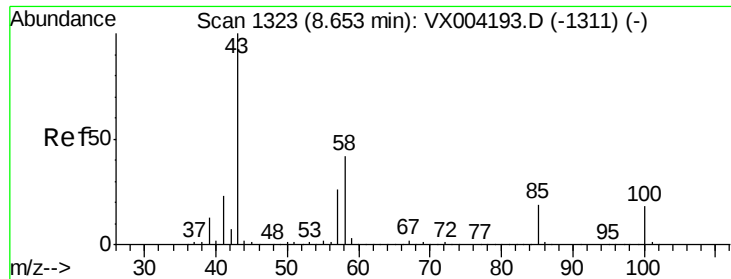
#50
Toluene-d8
Concen: 50.79 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX004389.D
Acq: 06 Sep 2018 17:06

Tgt Ion: 98 Resp: 701914
Ion Ratio Lower Upper
98 100
100 65.8 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V

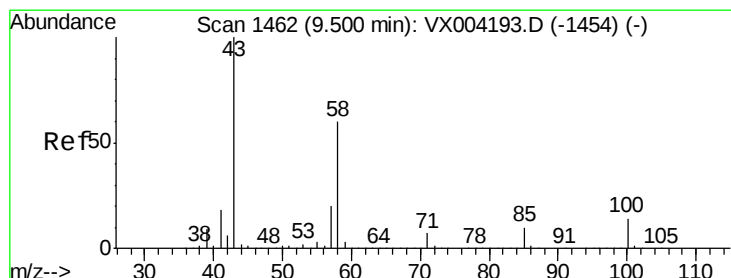
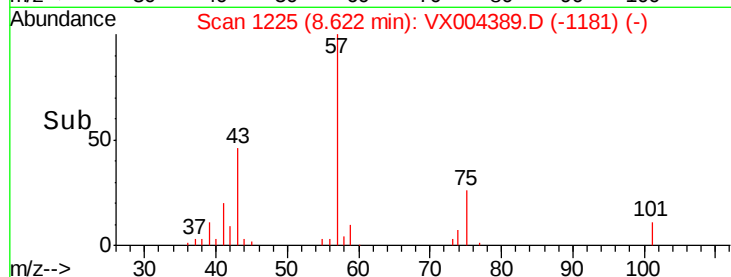
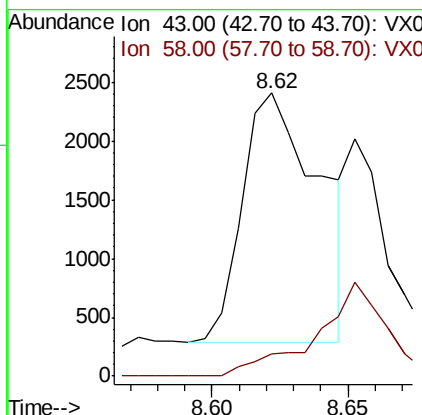
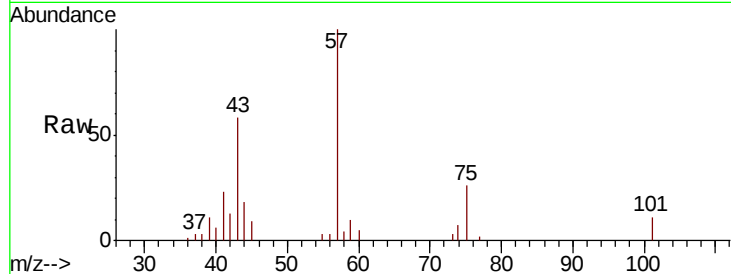




#51
 4-Methyl-2-Pentanone
 Concen: 0.68 ug/l
 RT: 8.62 min Scan# 1225
 Delta R.T. -0.03 min
 Lab File: VX004389.D
 Acq: 06 Sep 2018 17:06

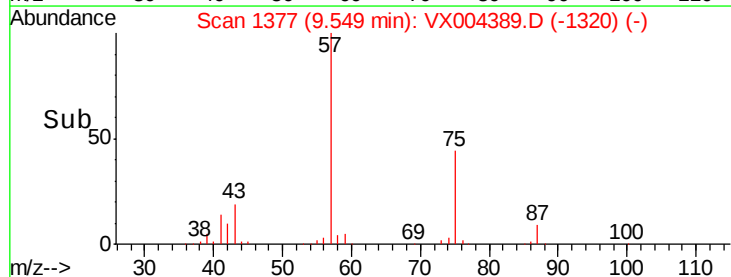
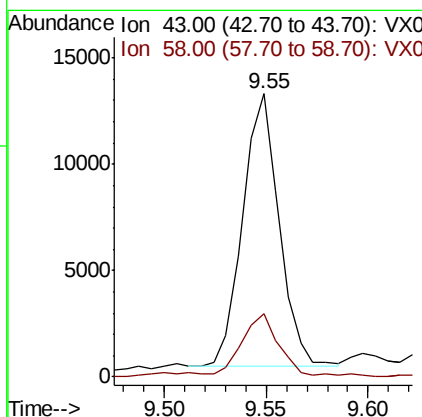
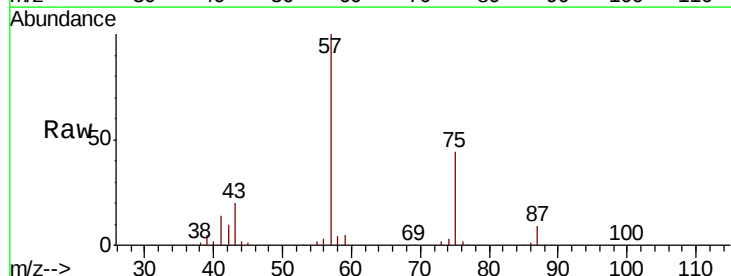
Instrument :
 MSVOA_X
 ClientSampleId :
 PB112611ZHE#01

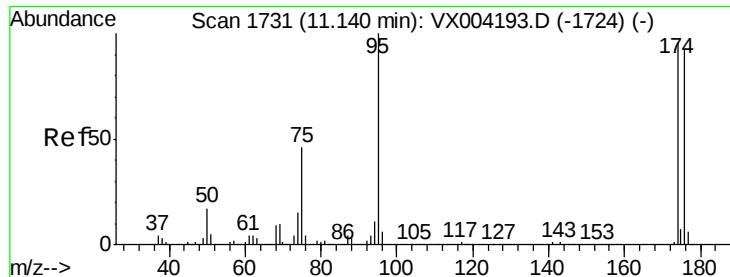
Tot Ion: 43 Resp: 4127
 Ion Ratio Lower Upper
 43 100
 58 0.0 33.1 49.7#



#59
 2-Hexanone
 Concen: 3.44 ug/l
 RT: 9.55 min Scan# 1377
 Delta R.T. 0.05 min
 Lab File: VX004389.D
 Acq: 06 Sep 2018 17:06

Tgt Ion: 43 Resp: 15963
 Ion Ratio Lower Upper
 43 100
 58 26.5 29.0 87.0#

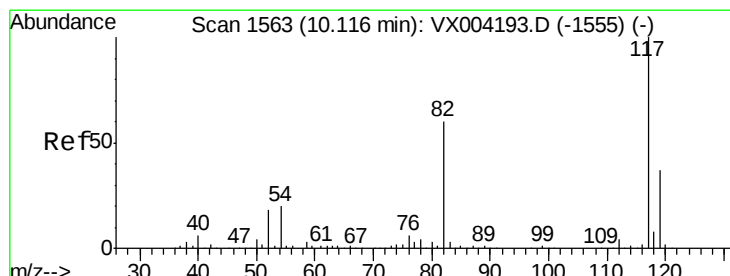
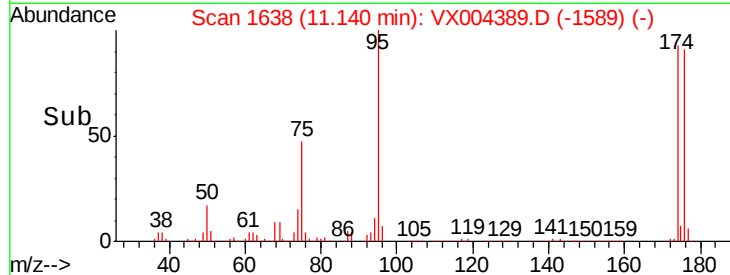
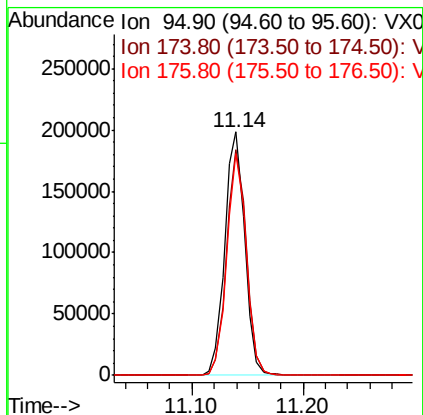
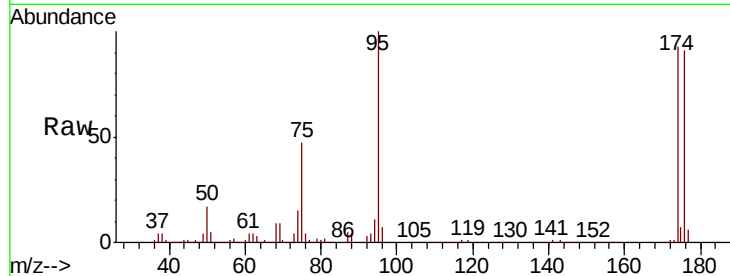




#62
4-Bromofluorobenzene
Concen: 47.65 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004389.D
Acq: 06 Sep 2018 17:06

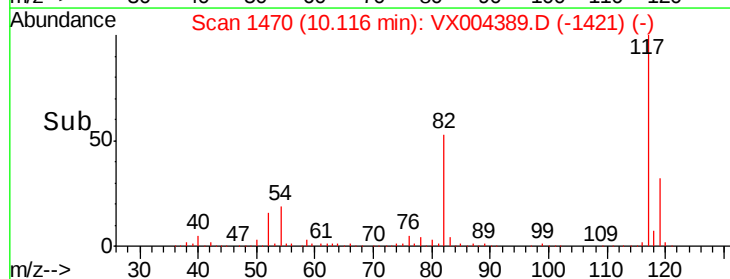
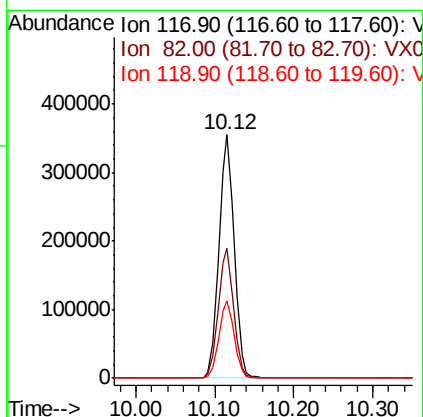
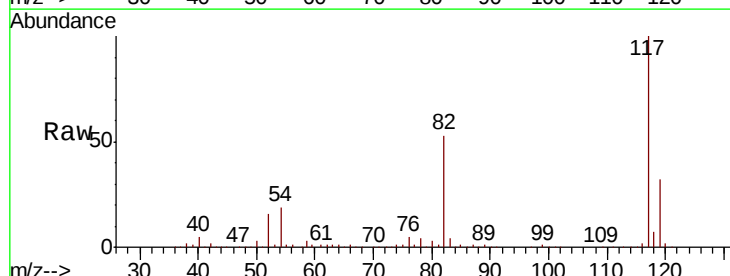
Instrument :
MSVOA_X
ClientSampleId :
PB112611ZHE#01

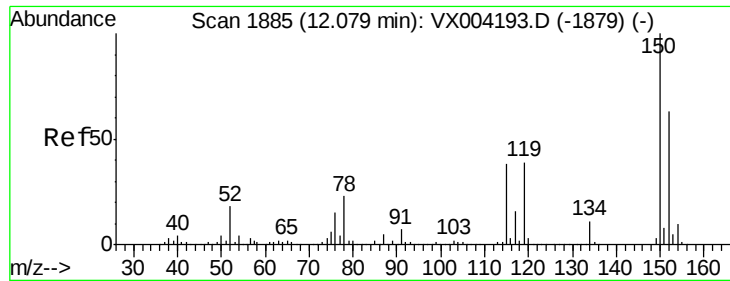
Tot Ion: 95 Resp: 245727
Ion Ratio Lower Upper
95 100
174 92.2 0.0 185.2
176 89.0 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004389.D
Acq: 06 Sep 2018 17:06

Tgt Ion: 117 Resp: 479393
Ion Ratio Lower Upper
117 100
82 53.2 47.8 71.6
119 31.5 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: VX004389.D

Acq: 06 Sep 2018 17:06

Instrument :

MSVOA_X

ClientSampleId :

PB112611ZHE#01

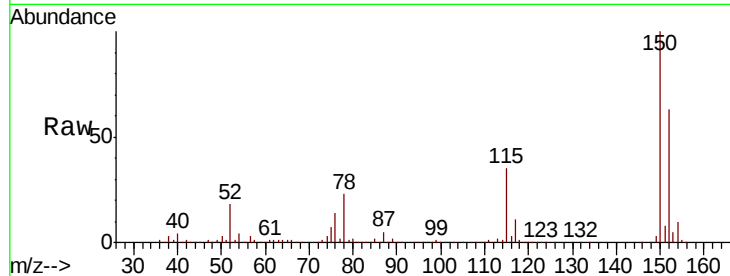
Tot Ion:152 Resp: 253594

Ion Ratio Lower Upper

152 100

115 55.5 39.0 117.0

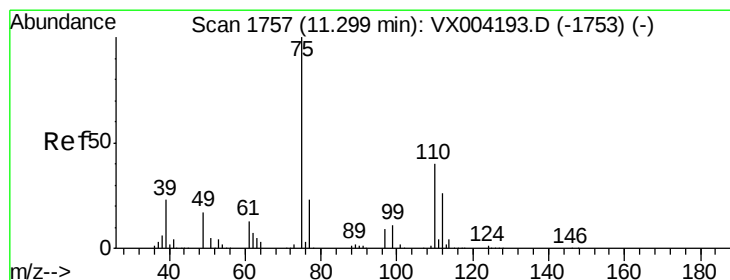
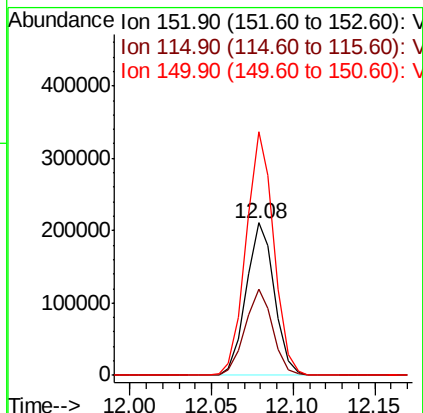
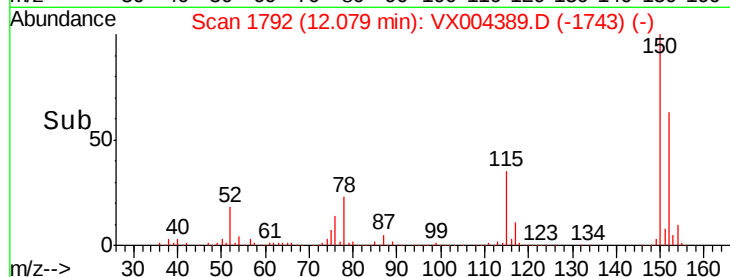
150 157.6 0.0 351.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.38 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004389.D

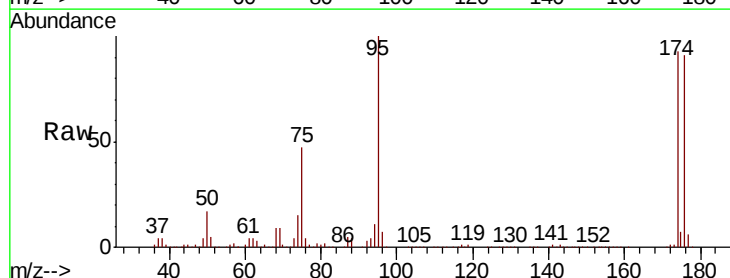
Acq: 06 Sep 2018 17:06

Tgt Ion: 75 Resp: 115407

Ion Ratio Lower Upper

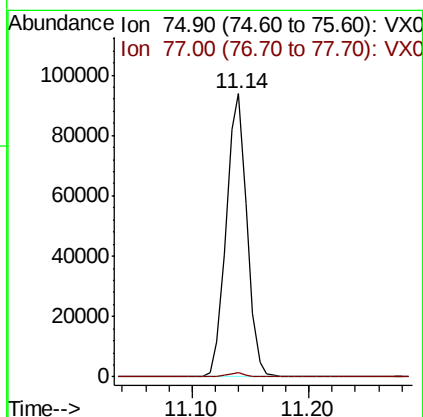
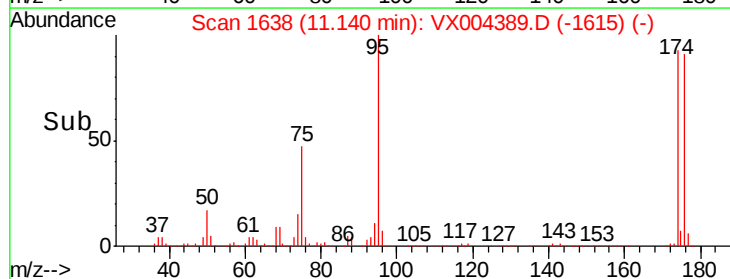
75 100

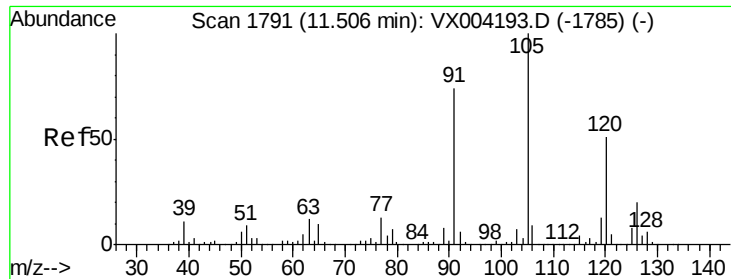
77 1.5 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

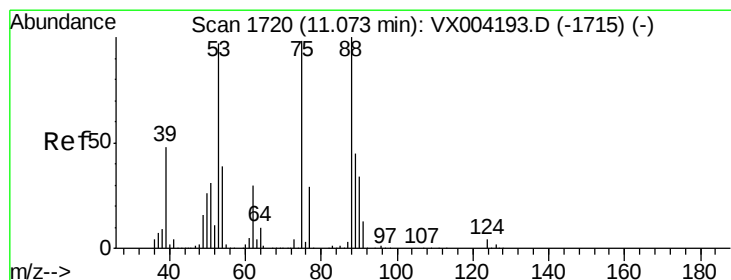
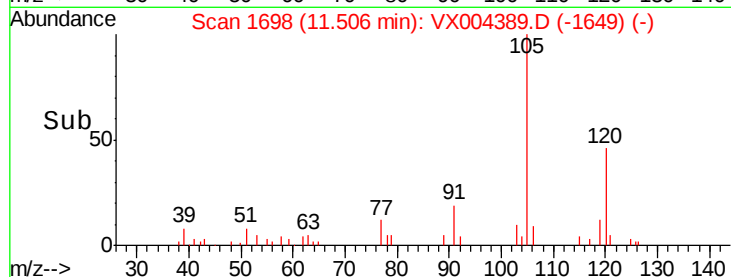
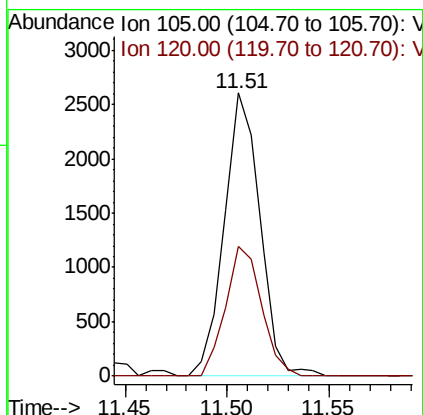
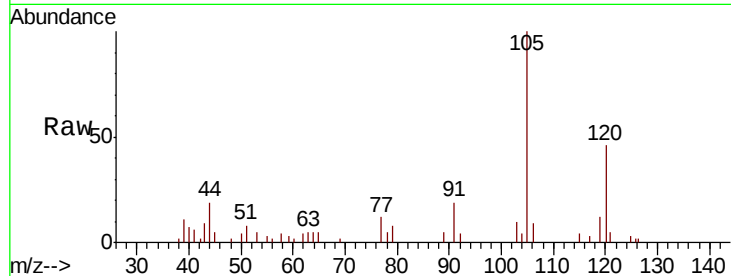




#80
 1,3,5-Trimethylbenzene
 Concen: 0.23 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX004389.D
 Acq: 06 Sep 2018 17:06

Instrument :
 MSVOA_X
 ClientSampleId :
 PB112611ZHE#01

Tot Ion:105 Resp: 3165
 Ion Ratio Lower Upper
 105 100
 120 46.2 25.6 76.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.60 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.07 min
 Lab File: VX004389.D
 Acq: 06 Sep 2018 17:06

Tgt Ion: 75 Resp: 115407
 Ion Ratio Lower Upper
 75 100
 53 0.2 80.1 120.1#
 89 0.0 37.2 55.8#

