

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091018\
 Data File : VX004449.D
 Acq On : 10 Sep 2018 15:28
 Operator : JC/MD
 Sample : PB112704ZHE#06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704ZHE#06

Quant Time: Sep 11 01:20:37 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	298137	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	486091	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	438546	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	257666	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	208434	53.64	ug/l	0.00
Spiked Amount			Recovery	=	107.28%	
35) Dibromofluoromethane	5.50	113	184842	51.11	ug/l	0.00
Spiked Amount			Recovery	=	102.22%	
50) Toluene-d8	8.71	98	700762	51.34	ug/l	0.00
Spiked Amount			Recovery	=	102.68%	
62) 4-Bromofluorobenzene	11.14	95	245211	48.15	ug/l	0.00
Spiked Amount			Recovery	=	96.30%	

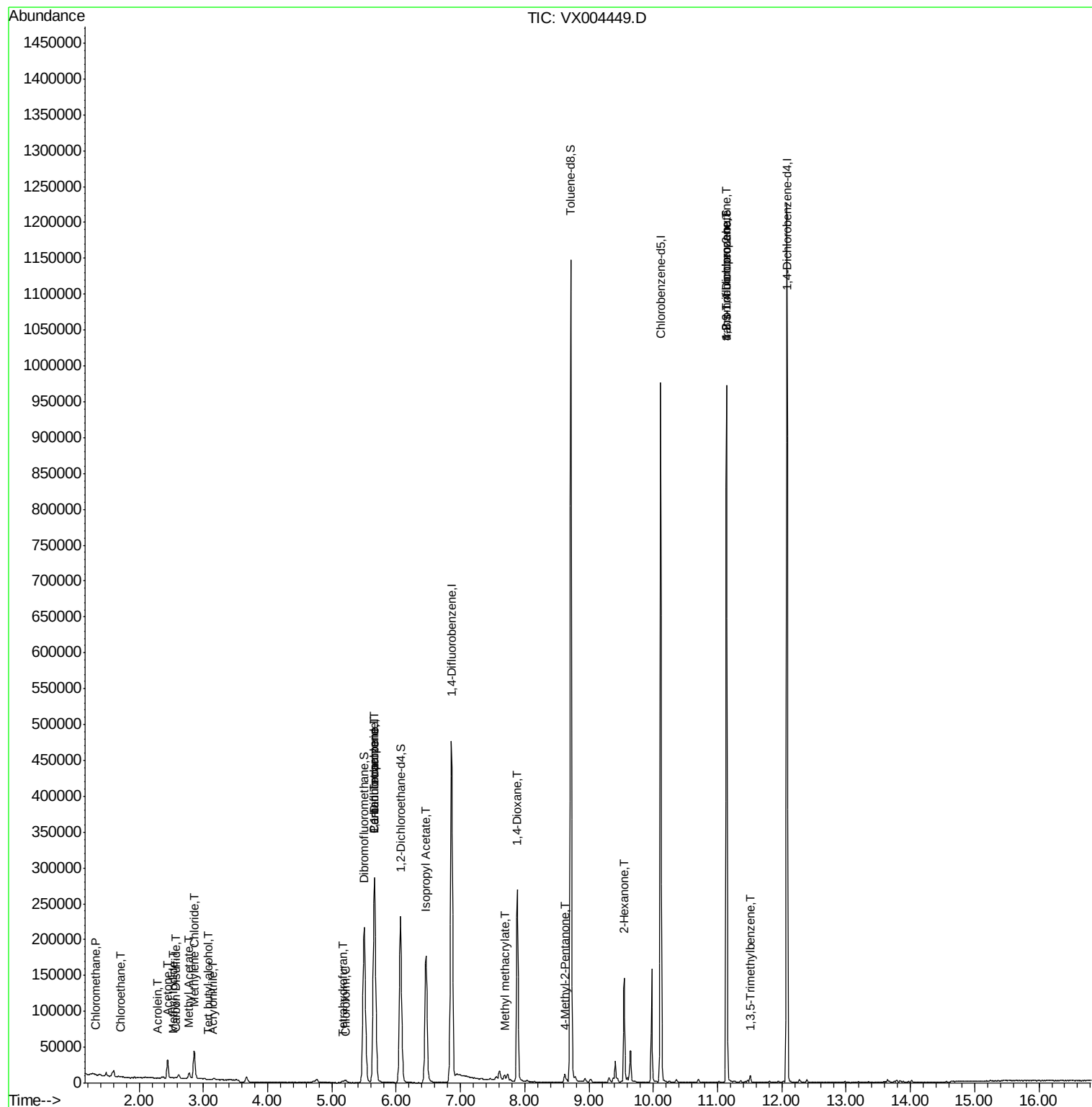
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	744	0.48	ug/l	# 68
5) Bromomethane	1.65	94	410	Below Cal		# 88
6) Chloroethane	1.71	64	161	1.02	ug/l	# 44
10) Methyl Iodide	2.52	142	783	4.45	ug/l	# 87
11) Tert butyl alcohol	3.07	59	554	0.67	ug/l	# 82
13) Acrolein	2.28	56	191	0.96	ug/l	# 81
15) Acrylonitrile	3.14	53	578	0.28	ug/l	# 63
16) Acetone	2.45	43	27298	9.44	ug/l	# 96
17) Carbon Disulfide	2.57	76	1616	0.98	ug/l	# 83
18) Methyl Acetate	2.78	43	10380	1.80	ug/l	# 100
20) Methylene Chloride	2.85	84	18160	4.85	ug/l	# 97
25) 2-Butanone	4.70	43	4061	Below Cal		# 83
29) Tetrahydrofuran	5.18	42	1784	1.07	ug/l	# 81
30) Chloroform	5.22	83	3642	0.58	ug/l	# 94
36) 1,1-Dichloropropene	5.66	75	19118	3.50	ug/l	# 50
38) Carbon Tetrachloride	5.66	117	25942	5.05	ug/l	# 16
43) Isopropyl Acetate	6.46	43	229822	27.83	ug/l	# 99
48) Methyl methacrylate	7.68	41	9283	2.10	ug/l	# 20
49) 1,4-Dioxane	7.88	88	25	0.25	ug/l	# 1
51) 4-Methyl-2-Pentanone	8.62	43	5162	0.86	ug/l	# 34
59) 2-Hexanone	9.55	43	14834	3.24	ug/l	# 56
76) 1,2,3-Trichloropropane	11.14	75	114467	21.84	ug/l	# 37
80) 1,3,5-Trimethylbenzene	11.51	105	3645	0.26	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	11.14	75	114467	70.87	ug/l	# 10

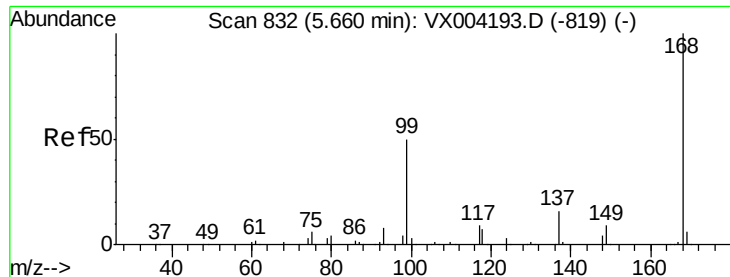
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampleId :
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Quant Time: Sep 11 01:20:37 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
Quant Title : SW846 8260
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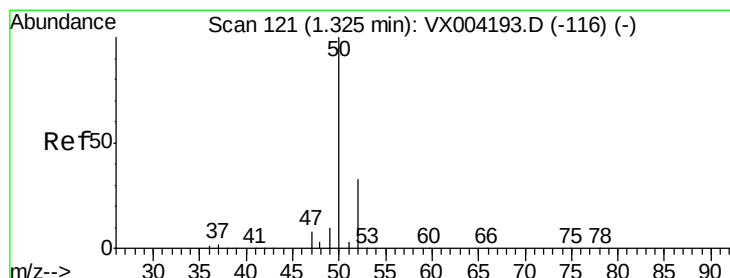
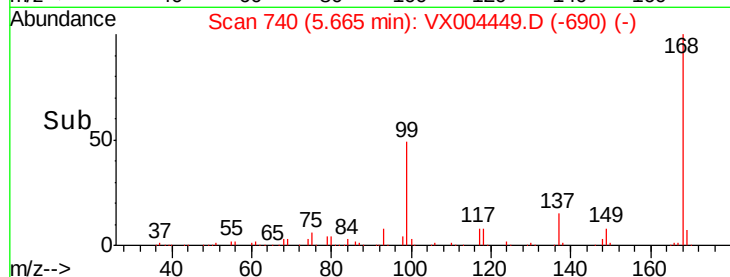
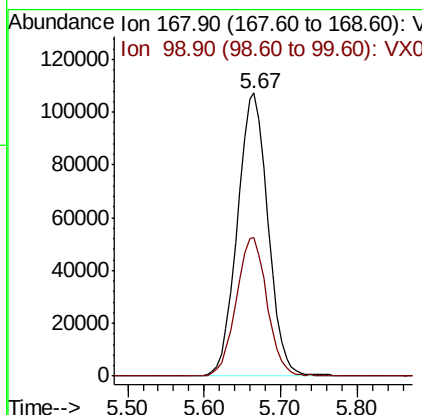
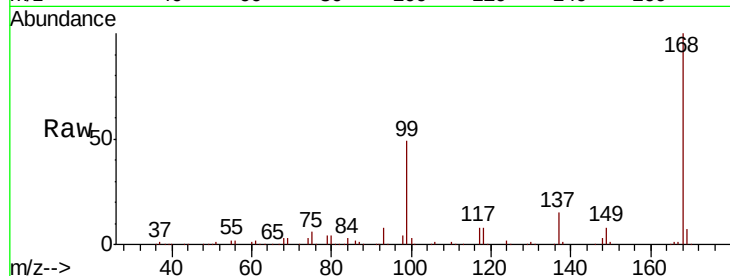




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.01 min
Lab File: VX004449.D
Acq: 10 Sep 2018 15:28

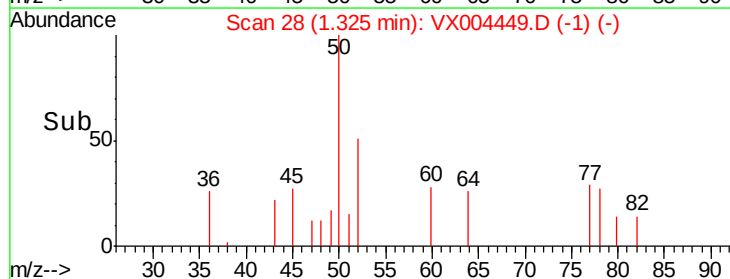
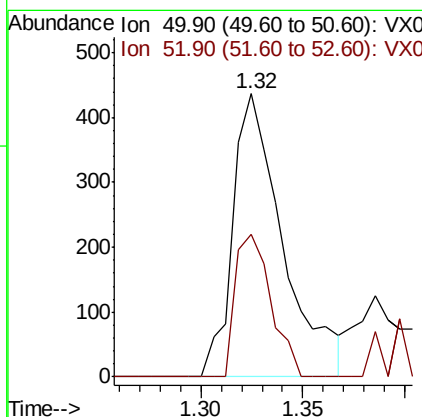
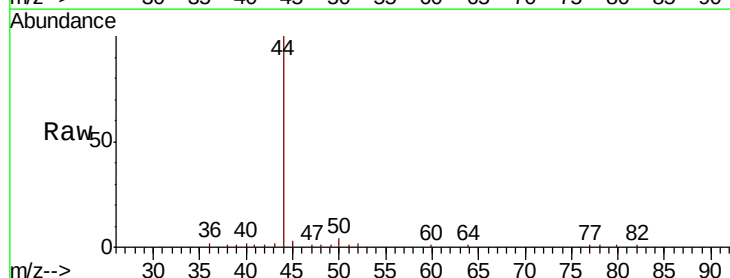
Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#06

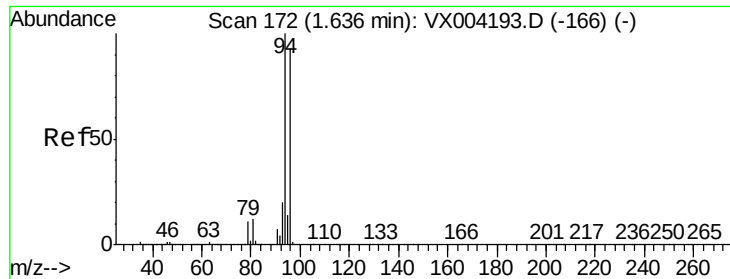
Tot Ion:168 Resp: 298137
Ion Ratio Lower Upper
168 100
99 49.2 39.9 59.9



#3
Chloromethane
Concen: 0.48 ug/l
RT: 1.32 min Scan# 28
Delta R.T. 0.00 min
Lab File: VX004449.D
Acq: 10 Sep 2018 15:28

Tgt Ion: 50 Resp: 744
Ion Ratio Lower Upper
50 100
52 50.6 26.2 39.2#





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004449.D

Acq: 10 Sep 2018 15:28

Instrument :

MSVOA_X

ClientSampleId :

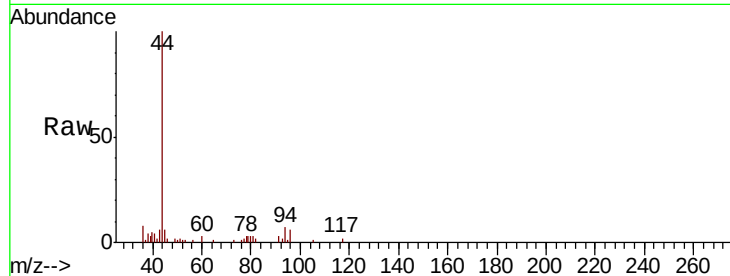
PB112704ZHE#06

Tot Ion: 94 Resp: 410

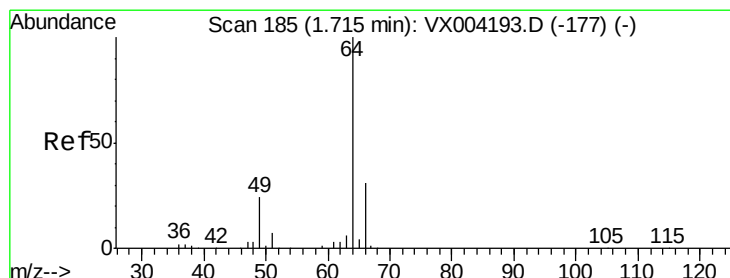
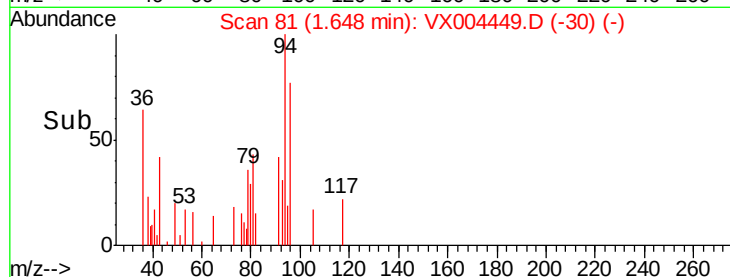
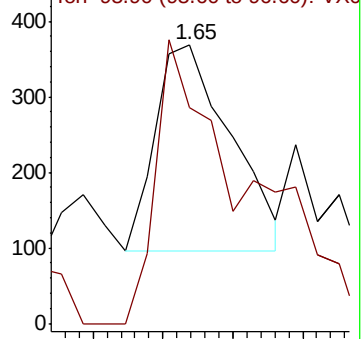
Ion Ratio Lower Upper

94 100

96 104.4 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0



#6

Chloroethane

Concen: 1.02 ug/l

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX004449.D

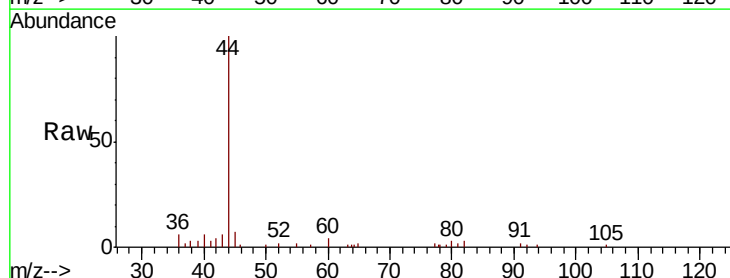
Acq: 10 Sep 2018 15:28

Tgt Ion: 64 Resp: 161

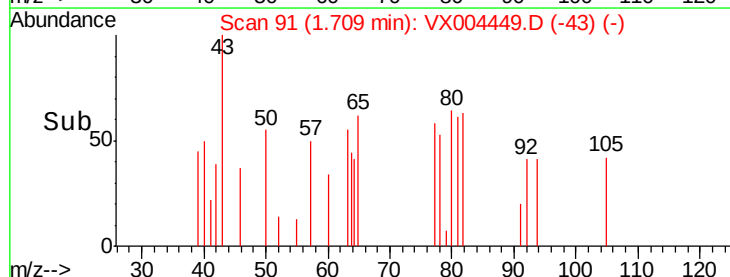
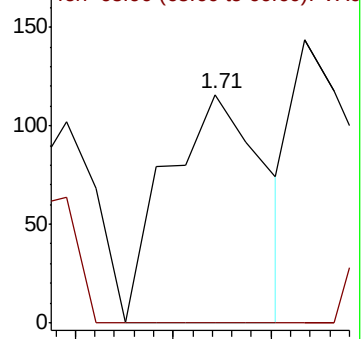
Ion Ratio Lower Upper

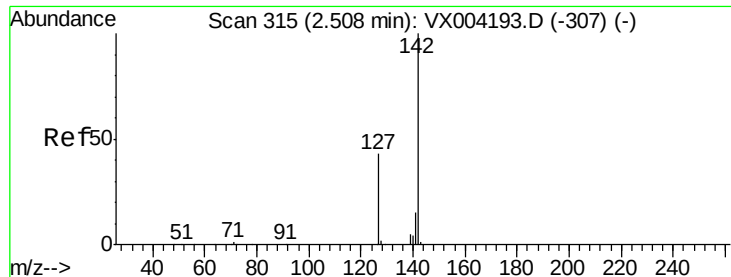
64 100

66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

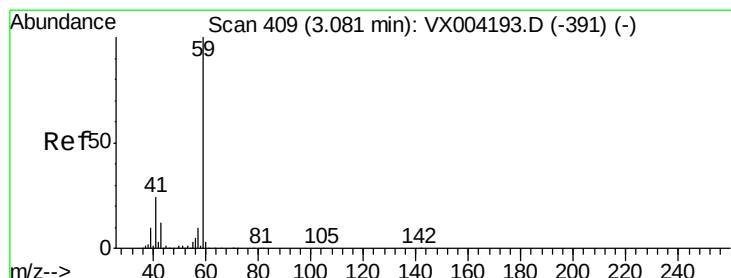
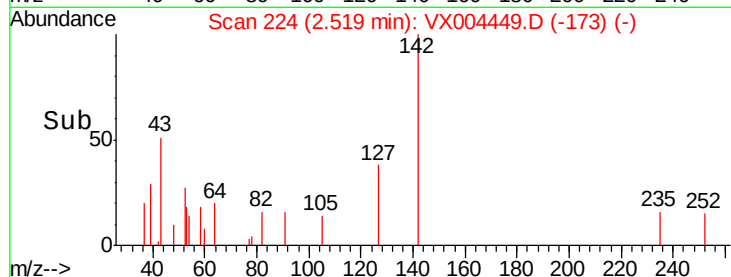
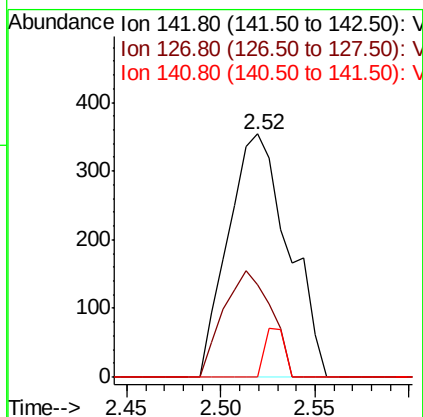
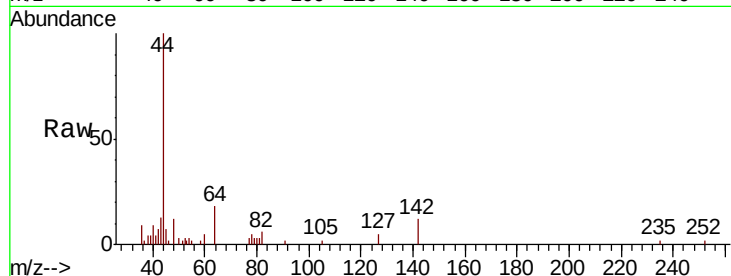




#10
Methvl Iodide
Concen: 4.45 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX004449.D
Acq: 10 Sep 2018 15:28

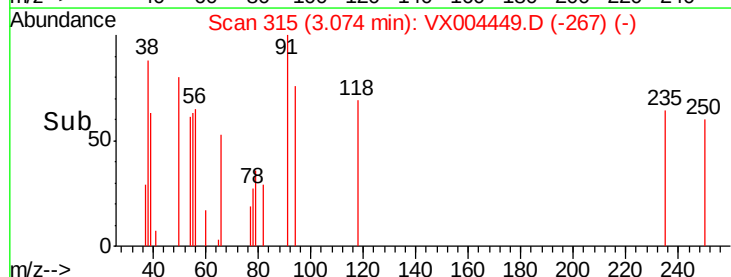
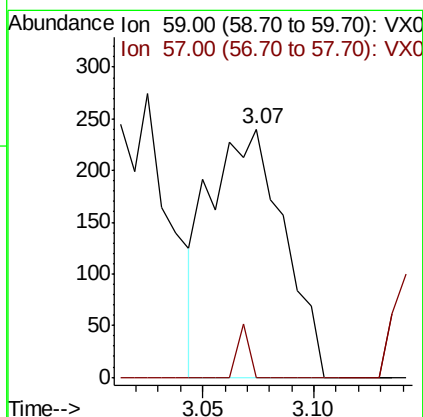
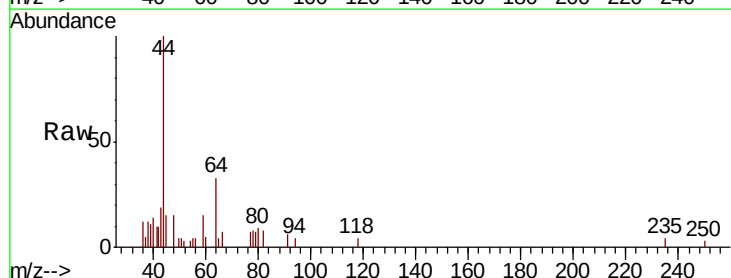
Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#06

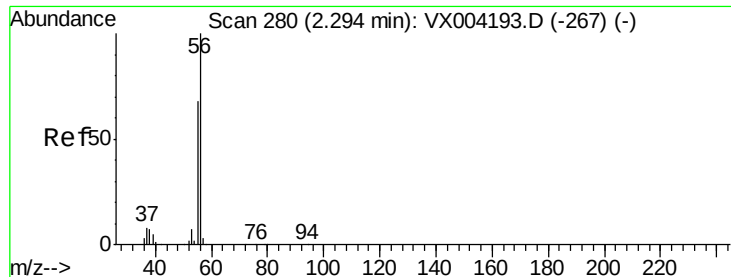
Tot Ion:142 Resp: 783
Ion Ratio Lower Upper
142 100
127 34.9 33.8 50.6
141 6.6 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.67 ug/l
RT: 3.07 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX004449.D
Acq: 10 Sep 2018 15:28

Tgt Ion: 59 Resp: 554
Ion Ratio Lower Upper
59 100
57 3.4 8.2 12.4#





#13

Acrolein

Concen: 0.96 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX004449.D

Acq: 10 Sep 2018 15:28

Instrument :

MSVOA_X

ClientSampleId :

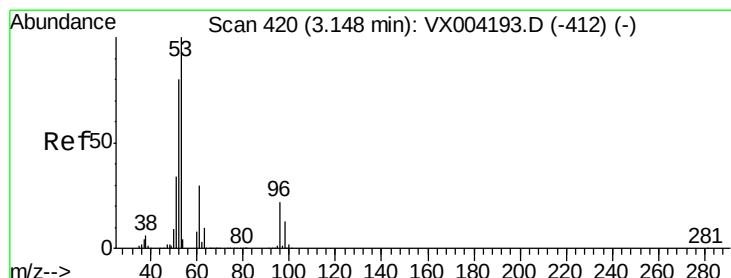
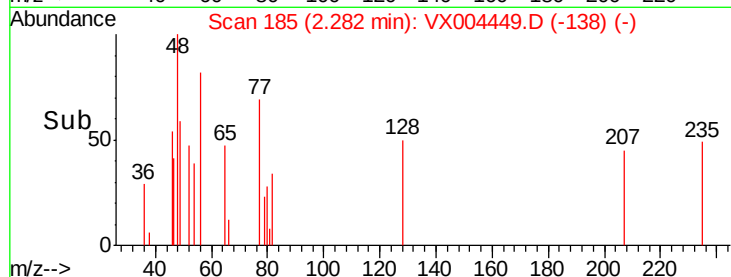
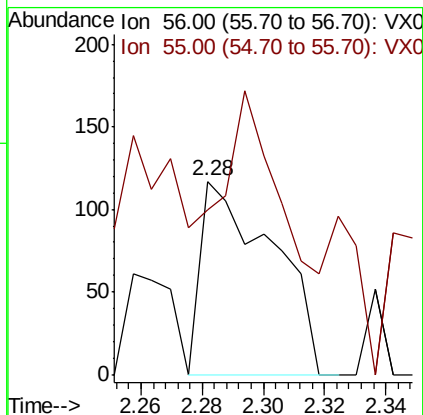
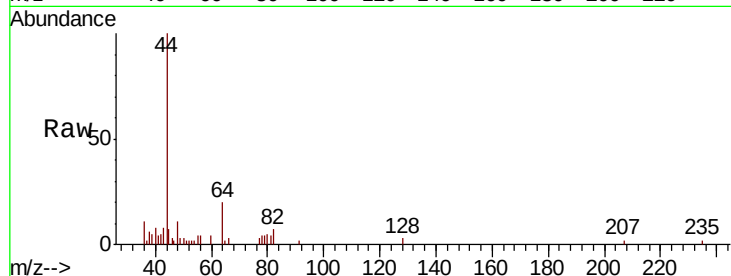
PB112704ZHE#06

Tot Ion: 56 Resp: 191

Ion Ratio Lower Upper

56 100

55 53.4 54.7 82.1#



#15

Acrylonitrile

Concen: 0.28 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VX004449.D

Acq: 10 Sep 2018 15:28

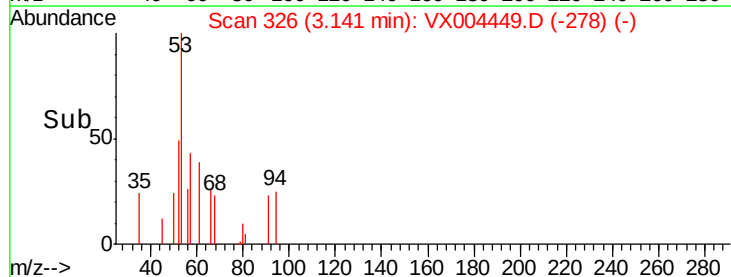
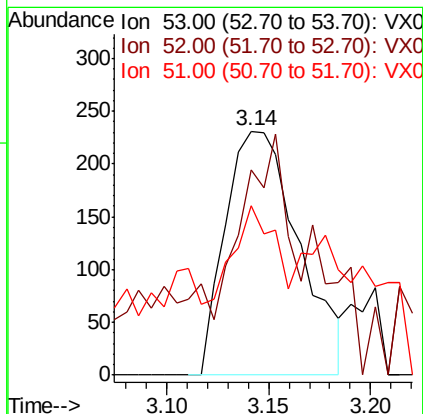
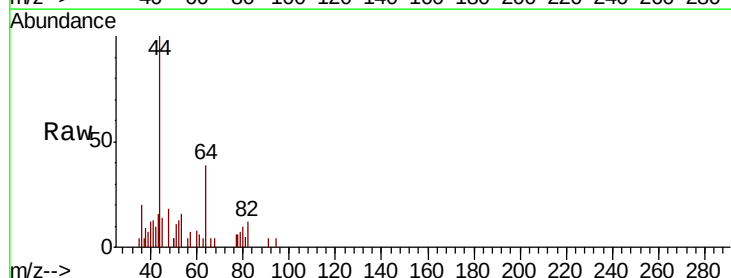
Tgt Ion: 53 Resp: 578

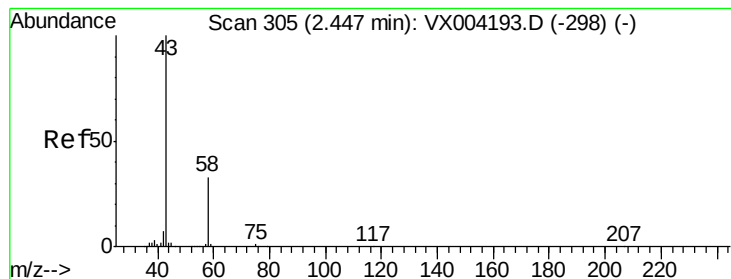
Ion Ratio Lower Upper

53 100

52 43.4 65.2 97.8#

51 21.6 28.2 42.2#





#16

Acetone

Concen: 9.44 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004449.D

Acq: 10 Sep 2018 15:28

Instrument :

MSVOA_X

ClientSampleId :

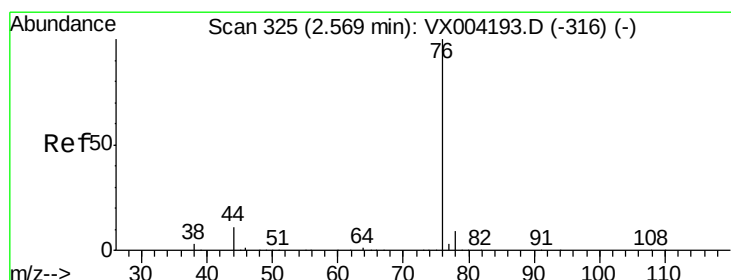
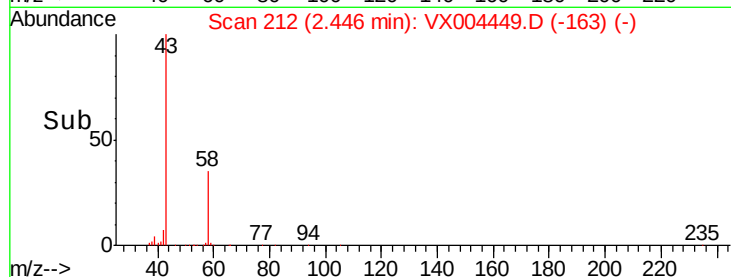
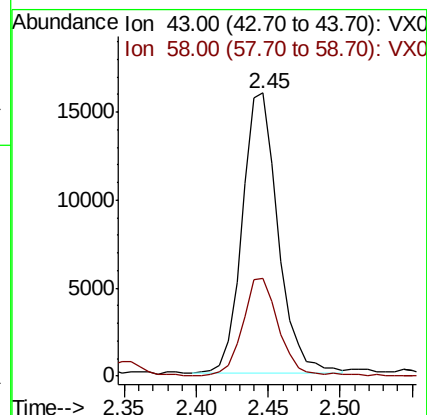
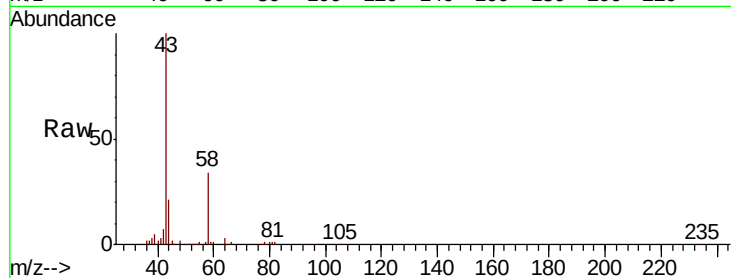
PB112704ZHE#06

Tot Ion: 43 Resp: 27298

Ion Ratio Lower Upper

43 100

58 34.8 26.2 39.4



#17

Carbon Disulfide

Concen: 0.98 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX004449.D

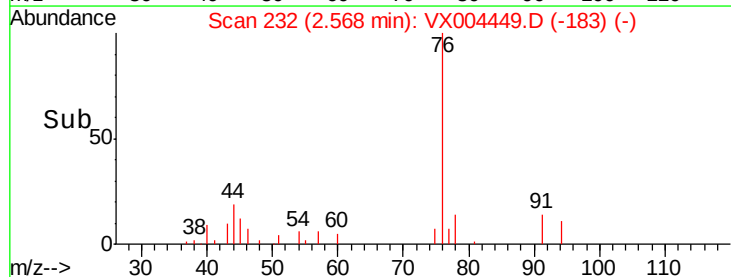
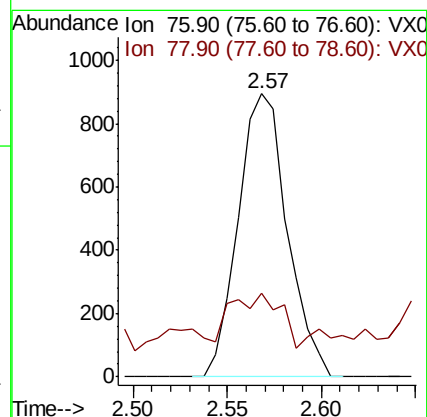
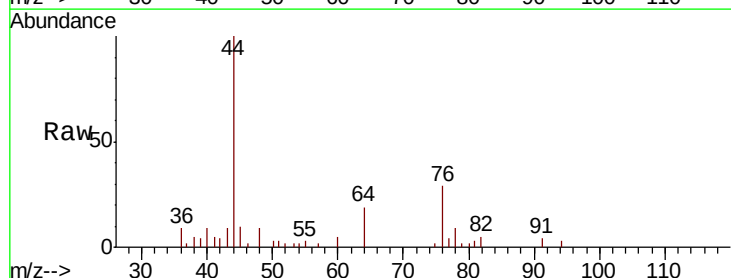
Acq: 10 Sep 2018 15:28

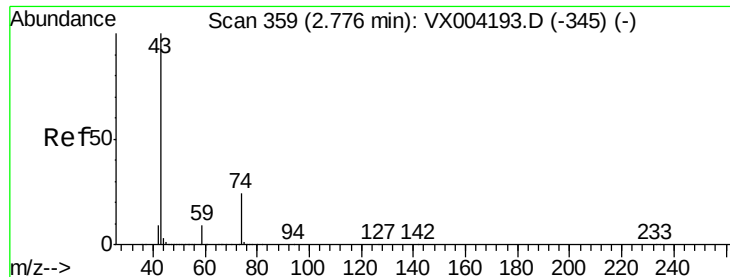
Tgt Ion: 76 Resp: 1616

Ion Ratio Lower Upper

76 100

78 15.0 7.0 10.6#

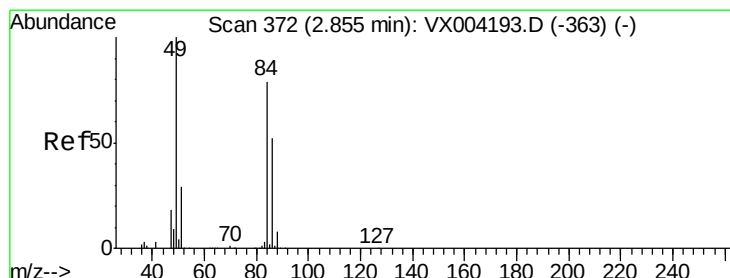
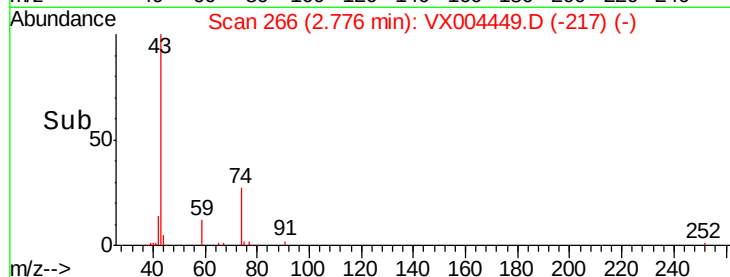
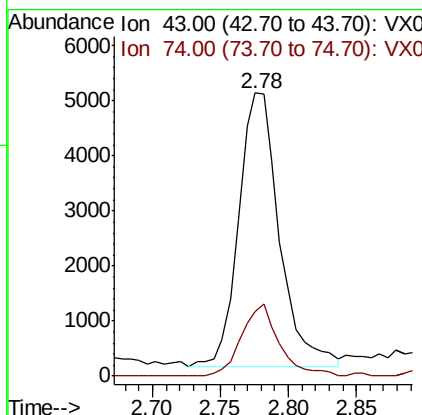
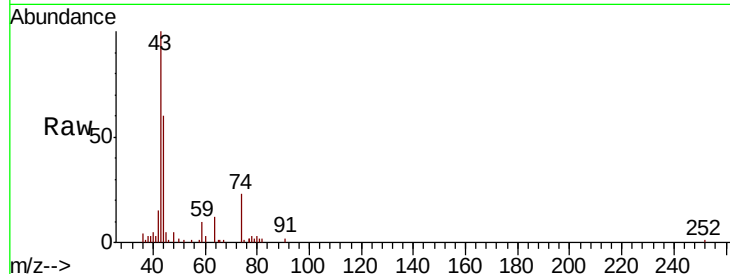




#18
Methvl Acetate
Concen: 1.80 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX004449.D
Acq: 10 Sep 2018 15:28

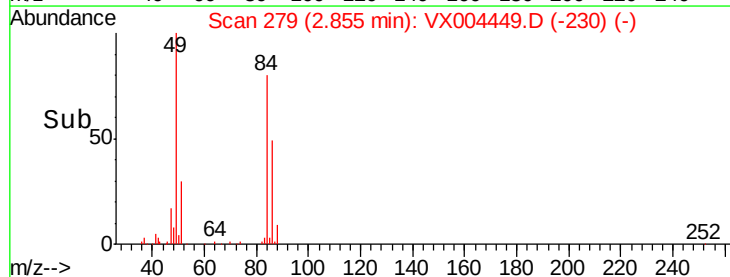
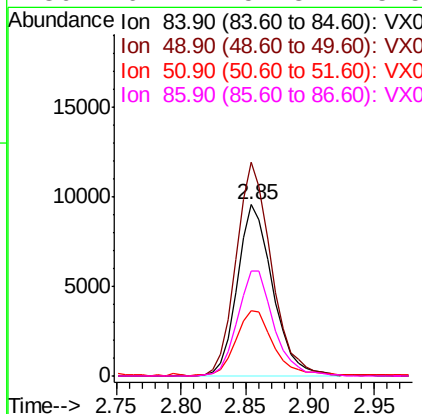
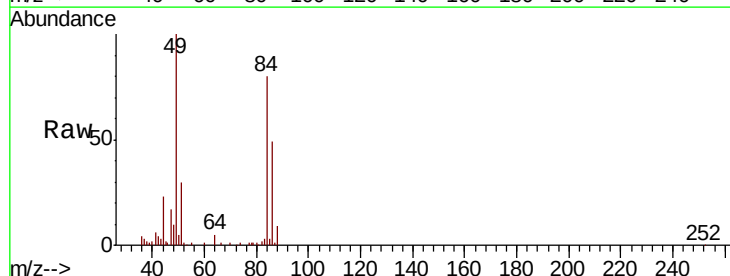
Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#06

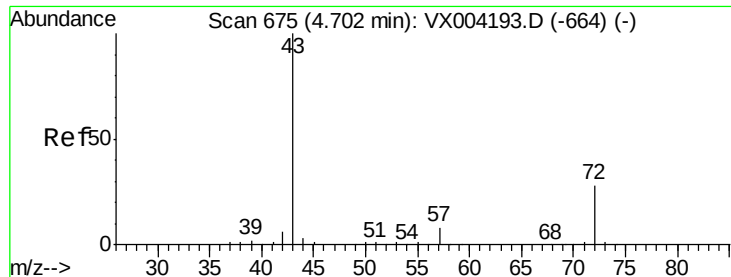
Tot Ion: 43 Resp: 10380
Ion Ratio Lower Upper
43 100
74 24.2 19.4 29.2



#20
Methylene Chloride
Concen: 4.85 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX004449.D
Acq: 10 Sep 2018 15:28

Tgt Ion: 84 Resp: 18160
Ion Ratio Lower Upper
84 100
49 124.8 101.2 151.8
51 38.0 29.5 44.3
86 61.1 52.3 78.5





#25

2-Butanone

Concen: Below Cal

RT: 4.70 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX004449.D

Acq: 10 Sep 2018 15:28

Instrument :

MSVOA_X

ClientSampleId :

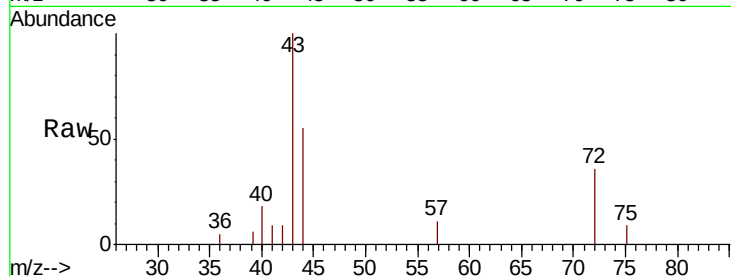
PB112704ZHE#06

Tot Ion: 43 Resp: 4061

Ion Ratio Lower Upper

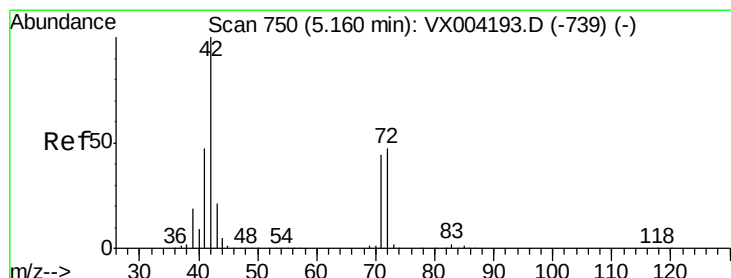
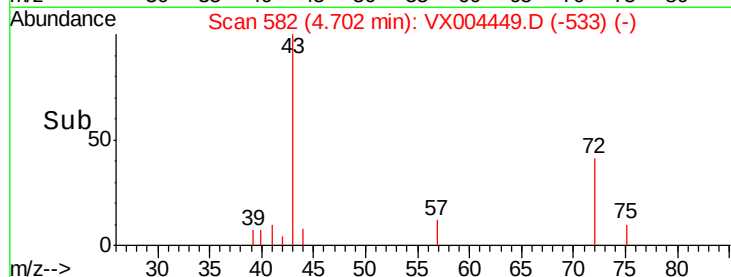
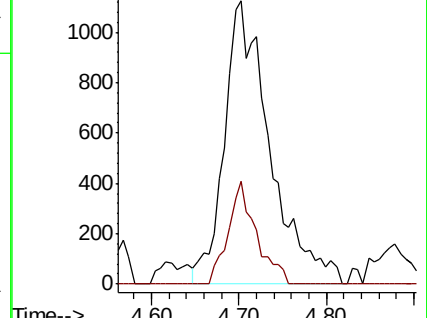
43 100

72 36.5 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: 1.07 ug/l

RT: 5.18 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX004449.D

Acq: 10 Sep 2018 15:28

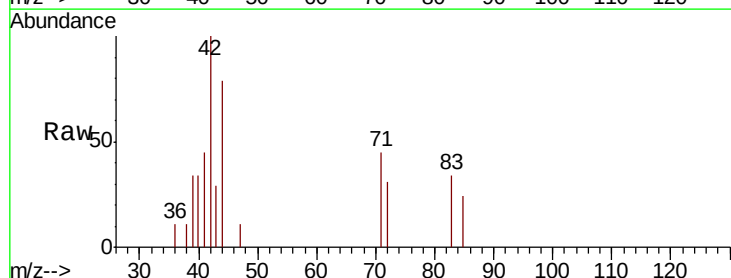
Tgt Ion: 42 Resp: 1784

Ion Ratio Lower Upper

42 100

72 40.5 37.4 56.0

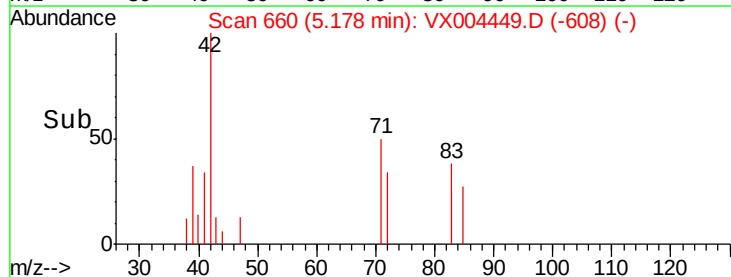
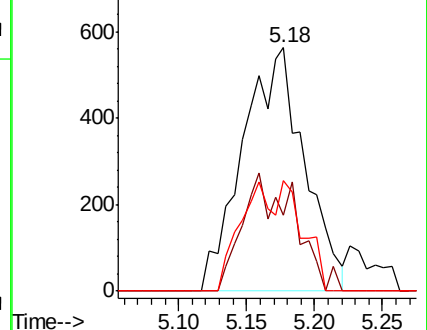
71 24.7 34.5 51.7#

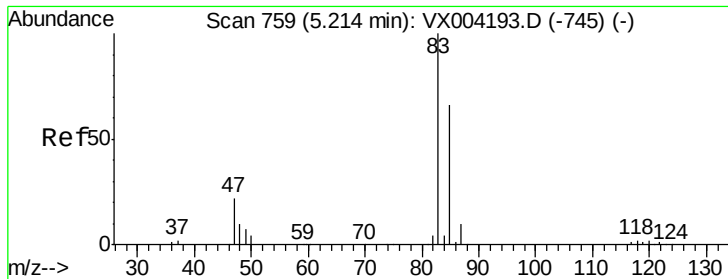


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

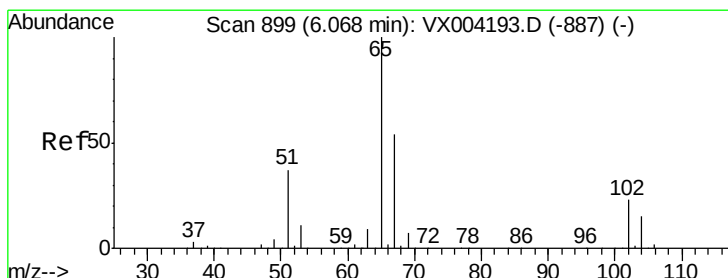
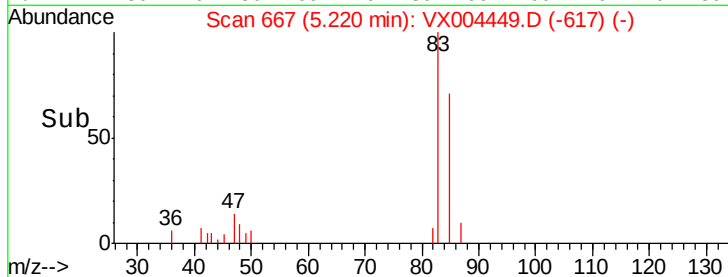
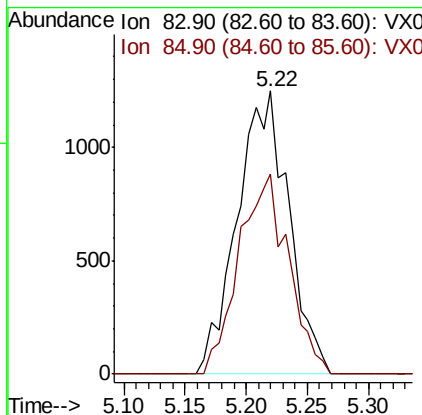
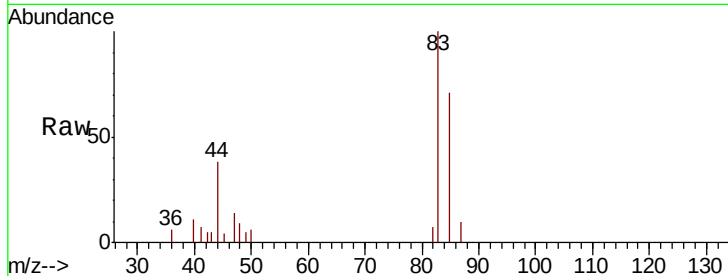




#30
Chloroform
Concen: 0.58 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX004449.D
Acq: 10 Sep 2018 15:28

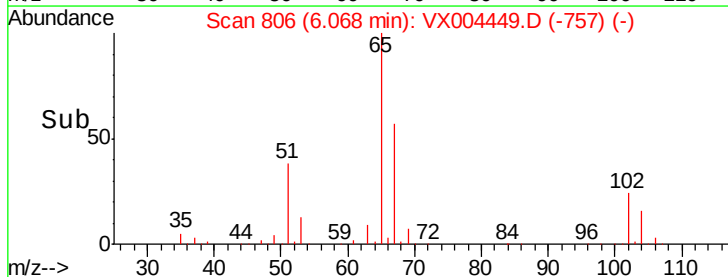
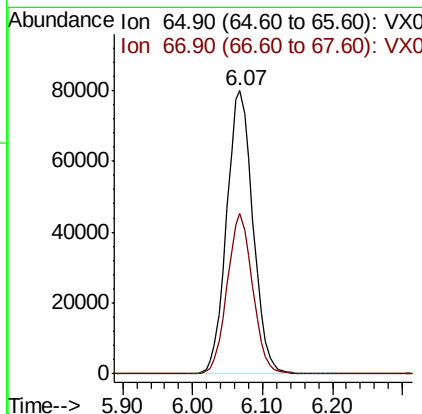
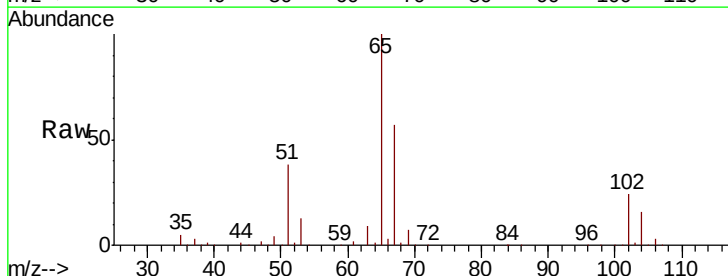
Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#06

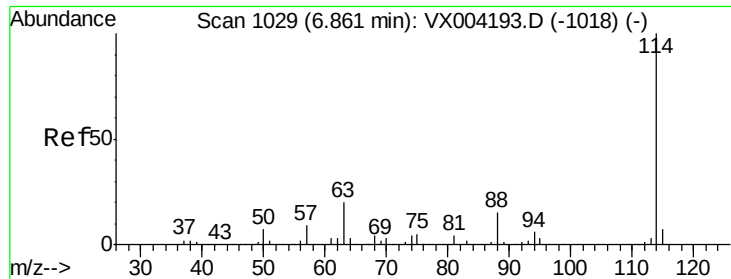
Tot Ion: 83 Resp: 3642
Ion Ratio Lower Upper
83 100
85 70.8 52.6 79.0



#33
1,2-Dichloroethane-d4
Concen: 53.64 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX004449.D
Acq: 10 Sep 2018 15:28

Tgt Ion: 65 Resp: 208434
Ion Ratio Lower Upper
65 100
67 54.7 0.0 106.8

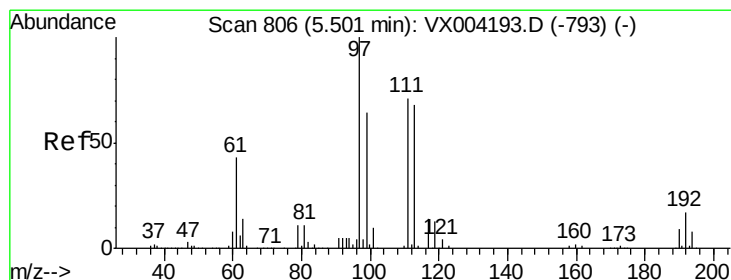
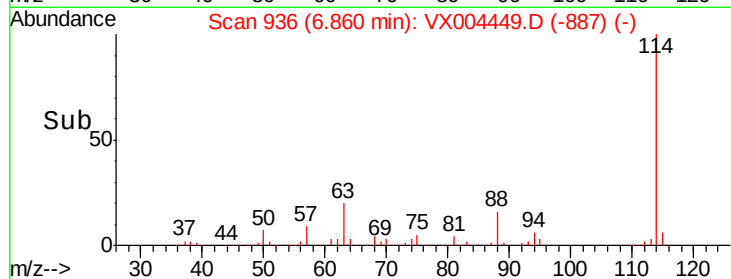
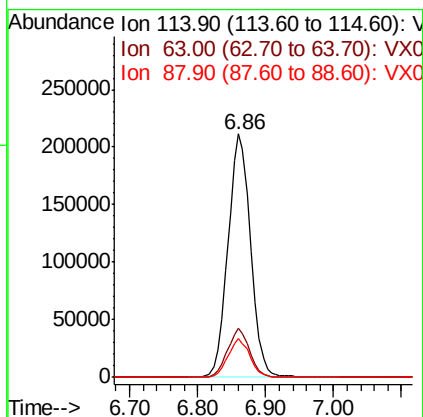
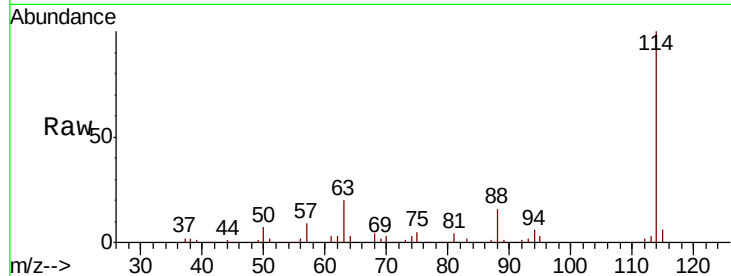




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.00 min
Lab File: VX004449.D
Acq: 10 Sep 2018 15:28

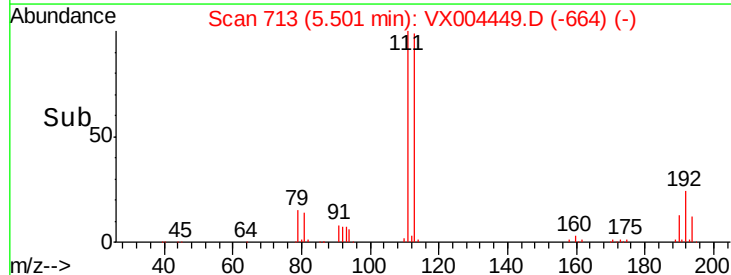
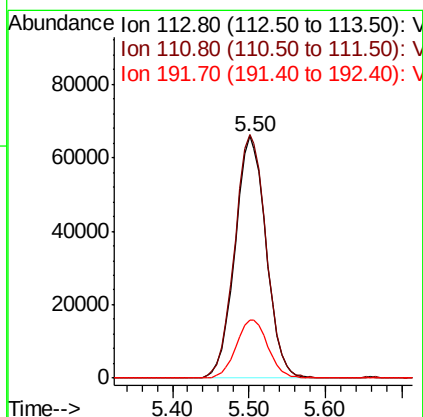
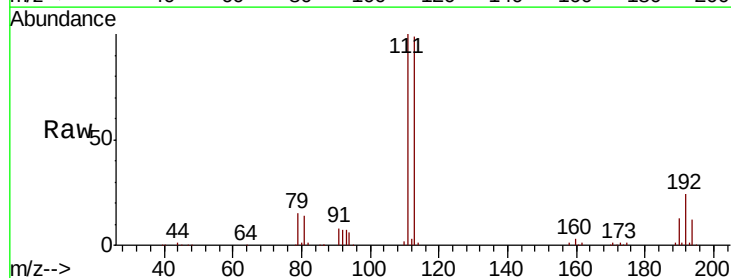
Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#06

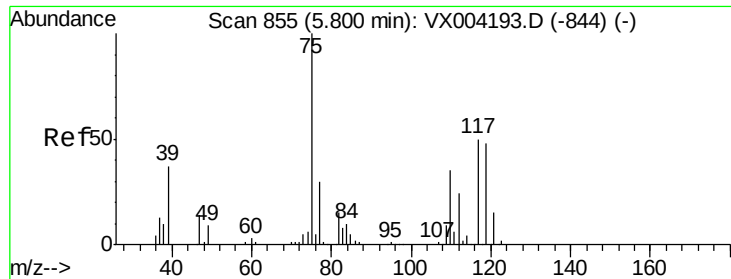
Tot Ion:114 Resp: 486091
Ion Ratio Lower Upper
114 100
63 20.0 0.0 39.0
88 15.8 0.0 30.4



#35
Dibromofluoromethane
Concen: 51.11 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX004449.D
Acq: 10 Sep 2018 15:28

Tgt Ion:113 Resp: 184842
Ion Ratio Lower Upper
113 100
111 102.3 82.4 123.6
192 24.6 19.4 29.2





#36

1,1-Dichloropropene

Concen: 3.50 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX004449.D

Acq: 10 Sep 2018 15:28

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#06

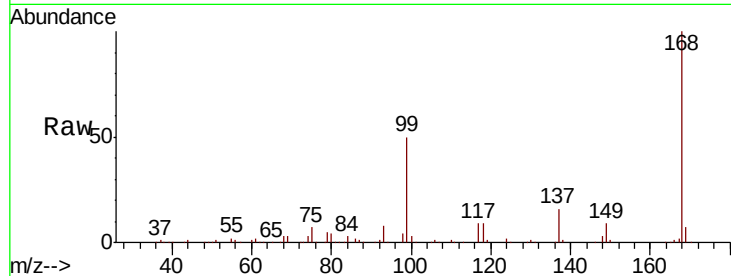
Tot Ion: 75 Resp: 19118

Ion Ratio Lower Upper

75 100

110 9.4 18.0 54.0#

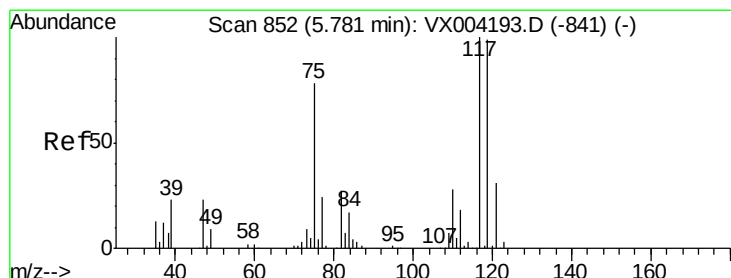
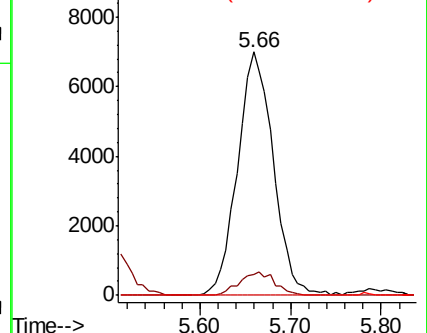
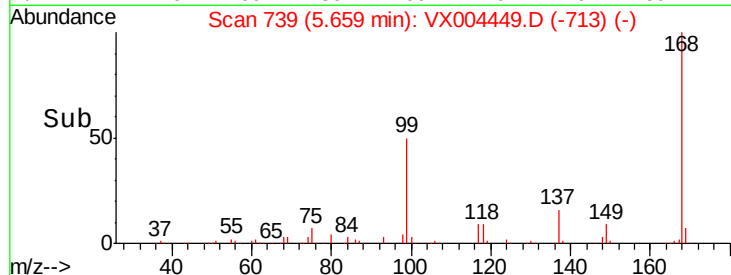
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 5.05 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX004449.D

Acq: 10 Sep 2018 15:28

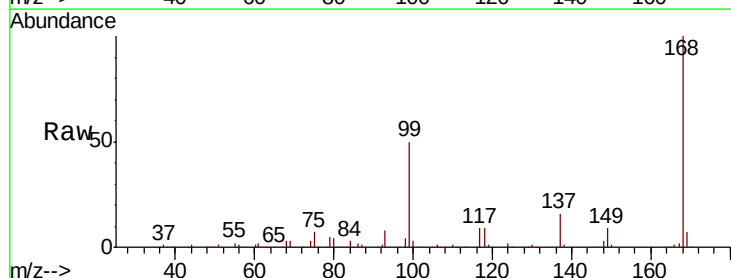
Tgt Ion: 117 Resp: 25942

Ion Ratio Lower Upper

117 100

119 6.4 78.8 118.2#

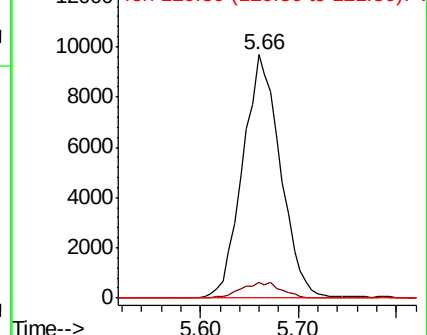
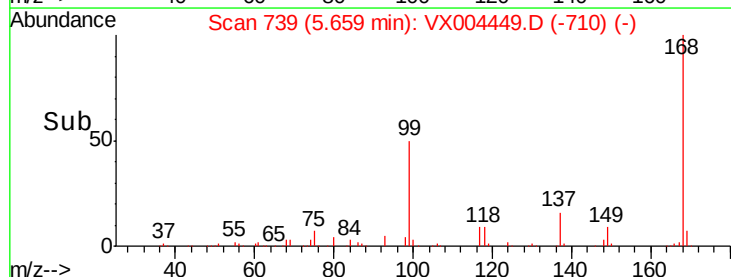
121 0.0 24.9 37.3#

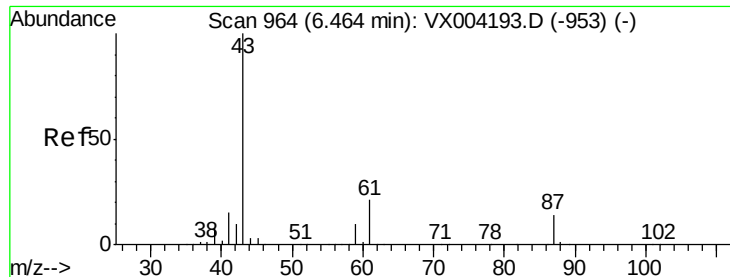


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 27.83 ug/l

RT: 6.46 min Scan# 871

Delta R.T. -0.00 min

Lab File: VX004449.D

Acq: 10 Sep 2018 15:28

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#06

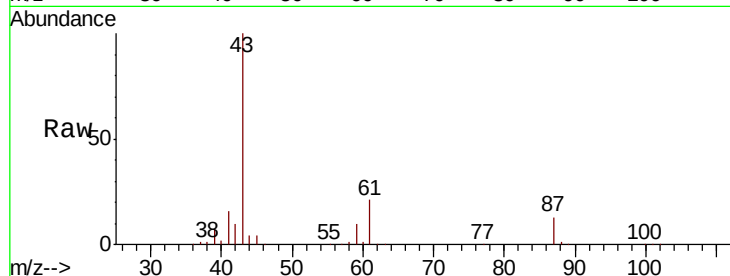
Tot Ion: 43 Resp: 229822

Ion Ratio Lower Upper

43 100

61 21.4 17.0 25.4

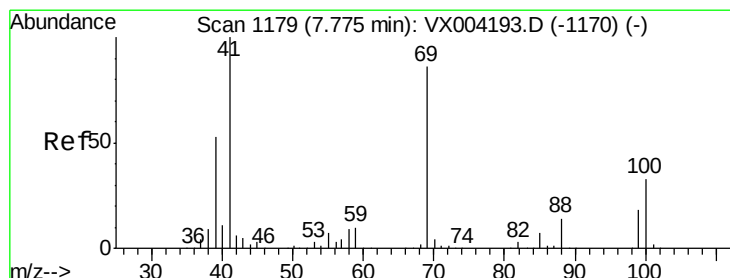
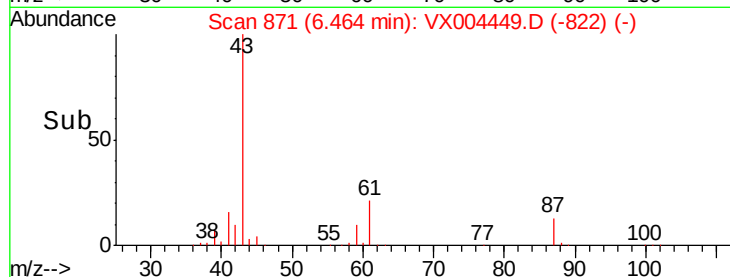
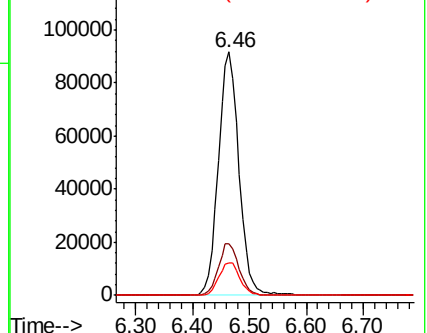
87 13.7 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 2.10 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX004449.D

Acq: 10 Sep 2018 15:28

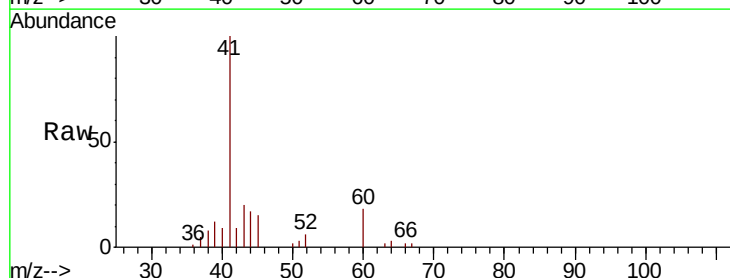
Tgt Ion: 41 Resp: 9283

Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.4#

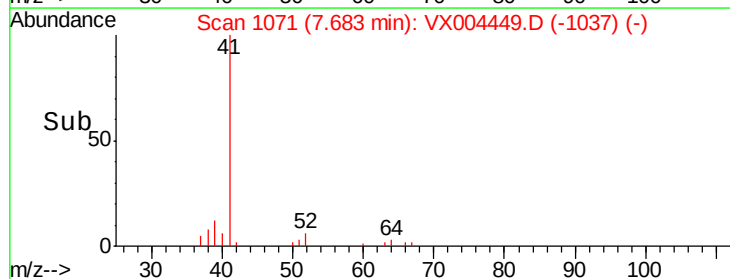
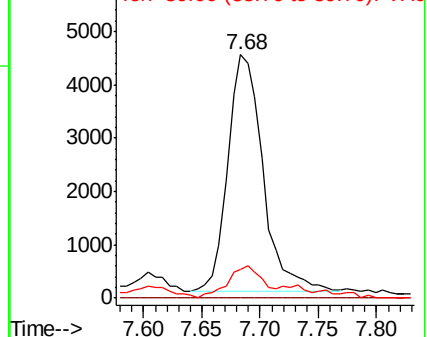
39 13.4 42.7 64.1#

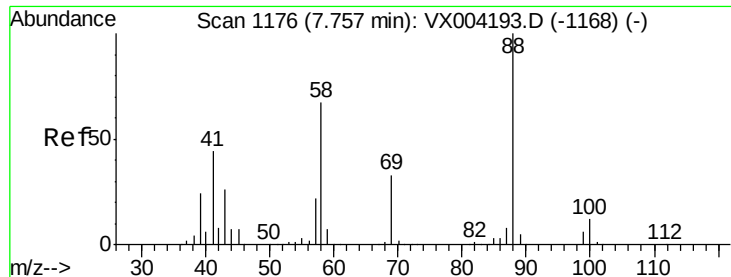


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 0.25 ug/l

RT: 7.88 min Scan# 1103

Delta R.T. 0.12 min

Lab File: VX004449.D

Acq: 10 Sep 2018 15:28

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#06

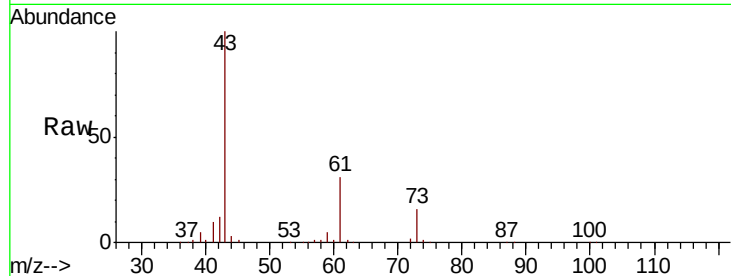
Tot Ion: 88 Resp: 25

Ion Ratio Lower Upper

88 100

43 939420.0 24.7 37.1#

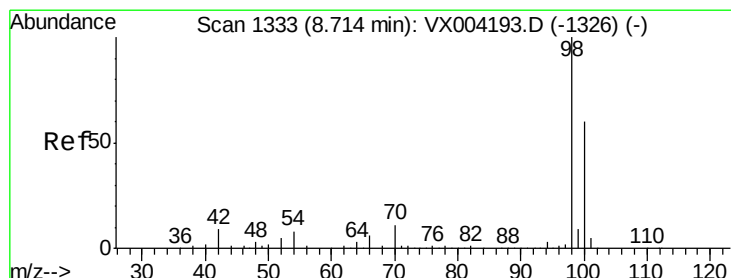
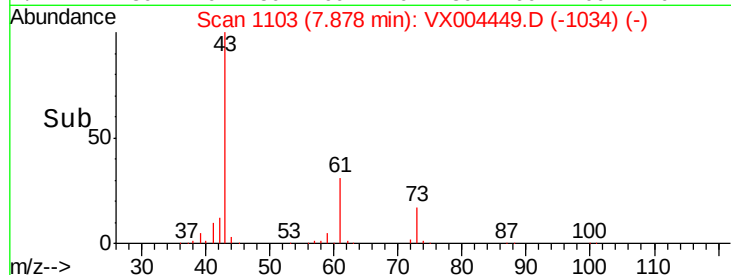
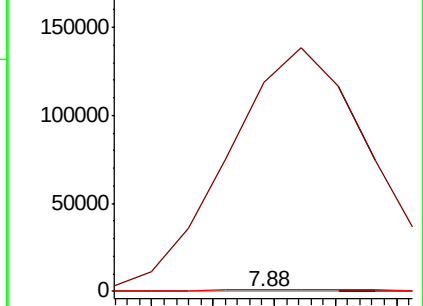
58 8276.0 55.3 82.9#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 51.34 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX004449.D

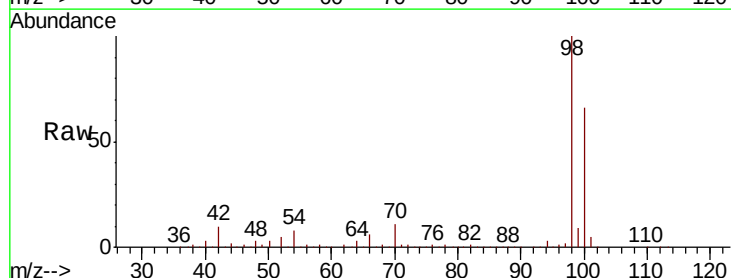
Acq: 10 Sep 2018 15:28

Tgt Ion: 98 Resp: 700762

Ion Ratio Lower Upper

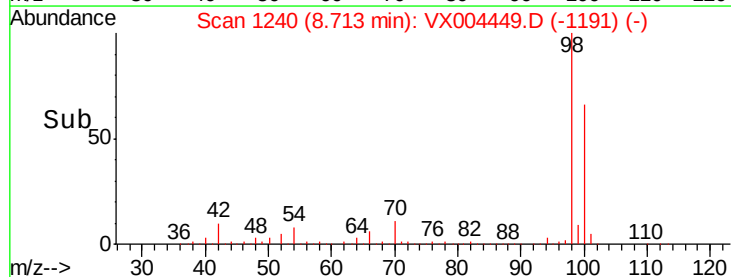
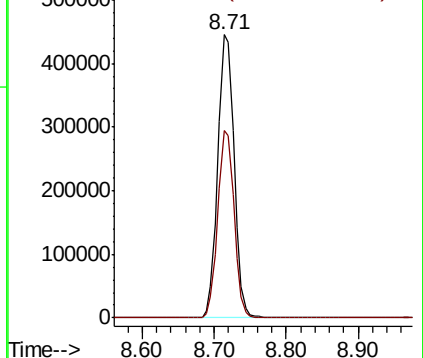
98 100

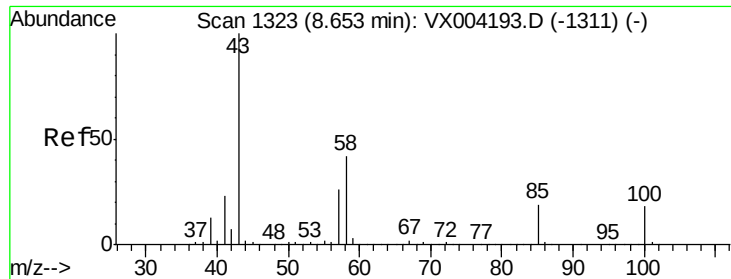
100 65.8 52.9 79.3



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: 0.86 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX004449.D

Acq: 10 Sep 2018 15:28

Instrument :

MSVOA_X

ClientSampleId :

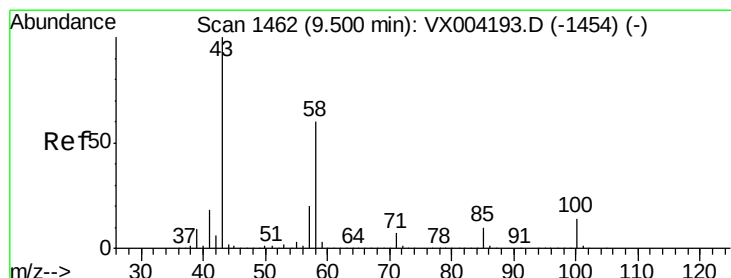
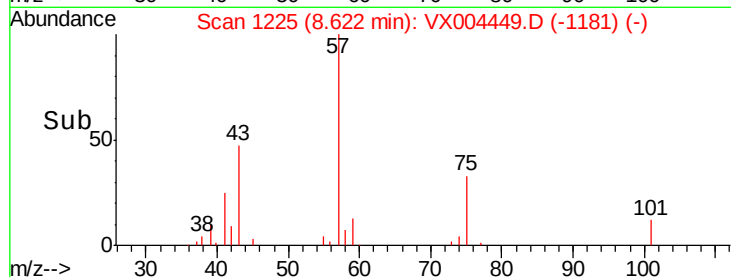
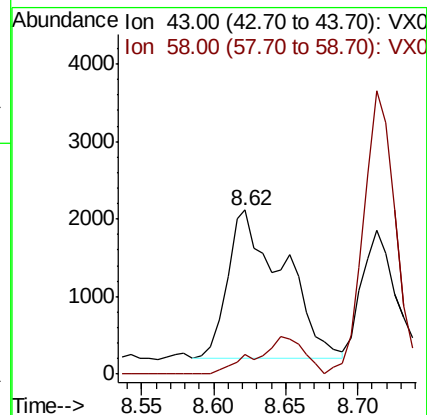
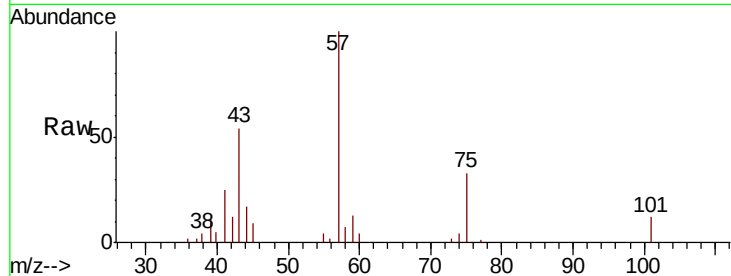
PB112704ZHE#06

Tot Ion: 43 Resp: 5162

Ion Ratio Lower Upper

43 100

58 0.0 33.1 49.7#



#59

2-Hexanone

Concen: 3.24 ug/l

RT: 9.55 min Scan# 1377

Delta R.T. 0.05 min

Lab File: VX004449.D

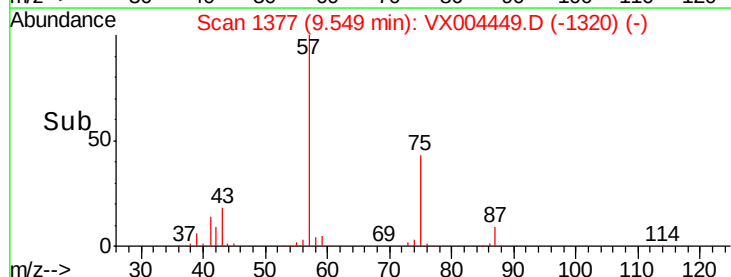
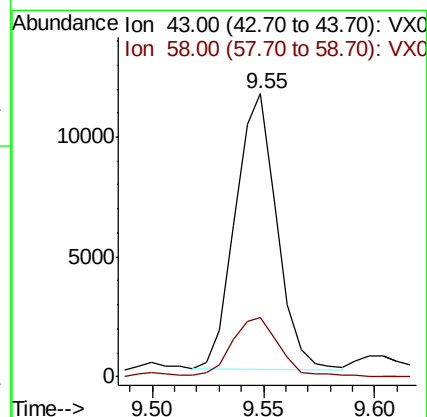
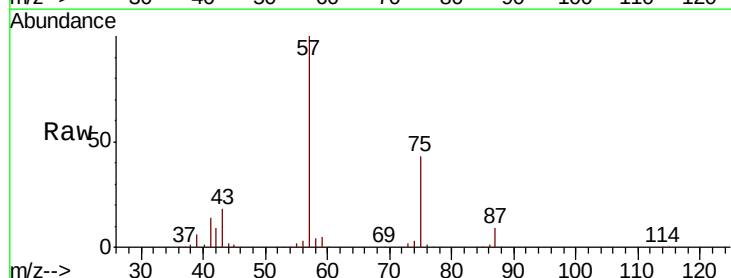
Acq: 10 Sep 2018 15:28

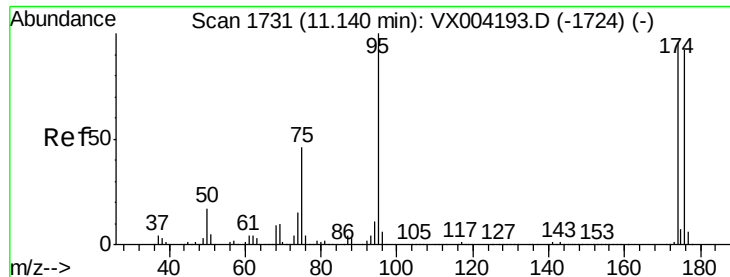
Tgt Ion: 43 Resp: 14834

Ion Ratio Lower Upper

43 100

58 25.3 29.0 87.0#

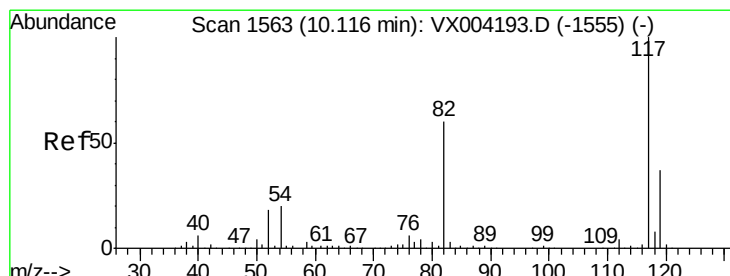
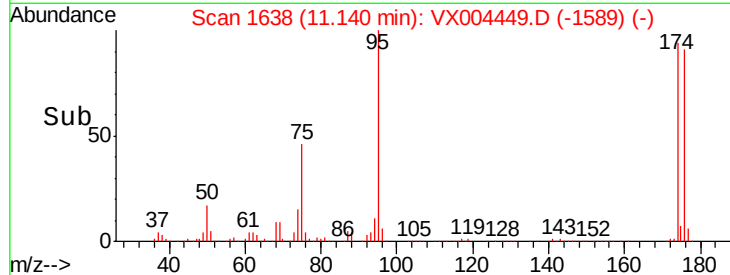
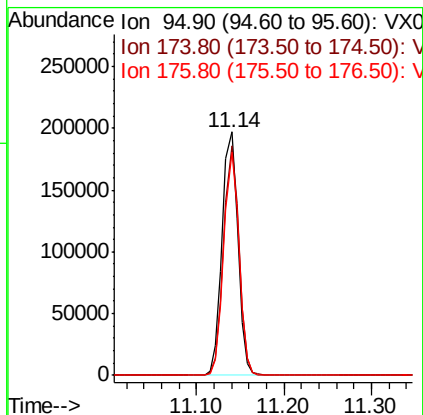
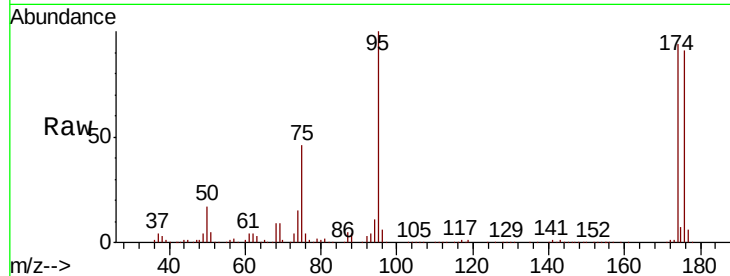




#62
4-Bromofluorobenzene
Concen: 48.15 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004449.D
Acq: 10 Sep 2018 15:28

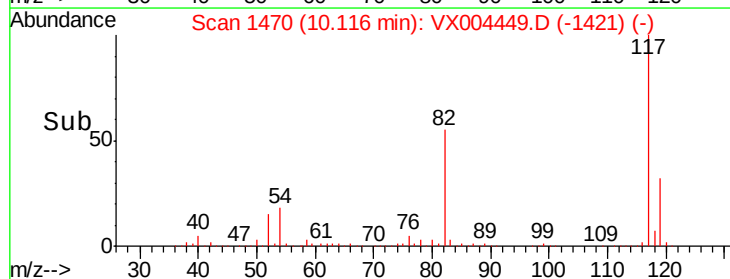
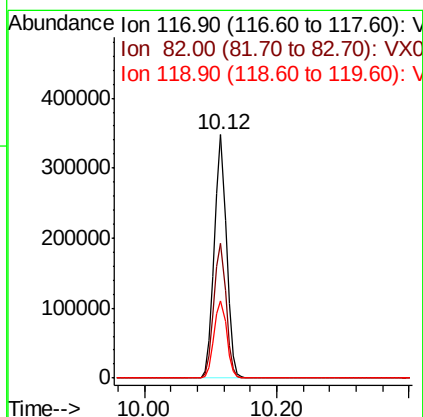
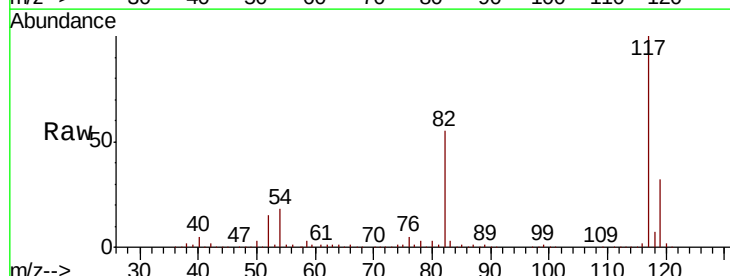
Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#06

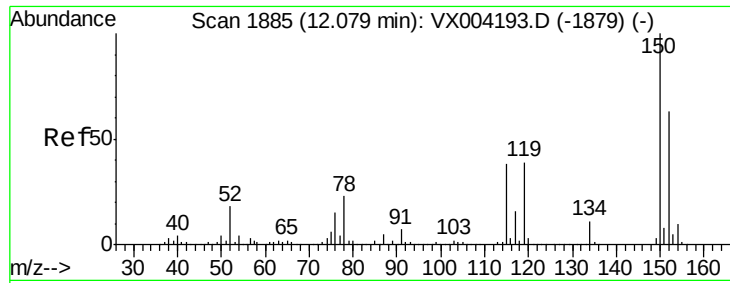
Tot Ion: 95 Resp: 245211
Ion Ratio Lower Upper
95 100
174 92.1 0.0 185.2
176 88.7 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004449.D
Acq: 10 Sep 2018 15:28

Tgt Ion: 117 Resp: 438546
Ion Ratio Lower Upper
117 100
82 55.4 47.8 71.6
119 31.7 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: VX004449.D

Acq: 10 Sep 2018 15:28

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#06

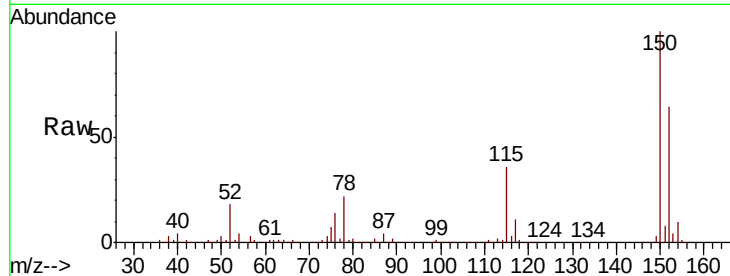
Tot Ion:152 Resp: 257666

Ion Ratio Lower Upper

152 100

115 54.7 39.0 117.0

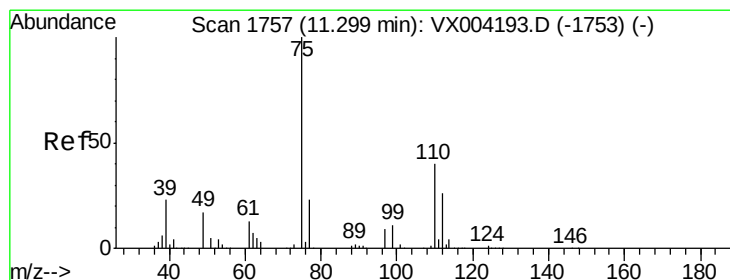
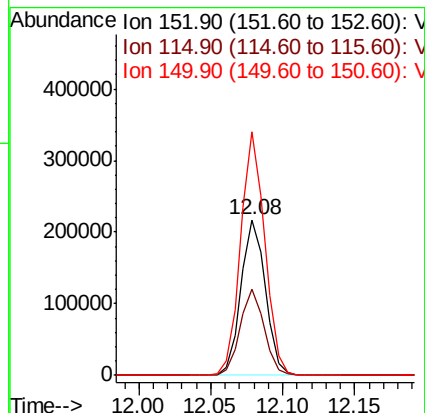
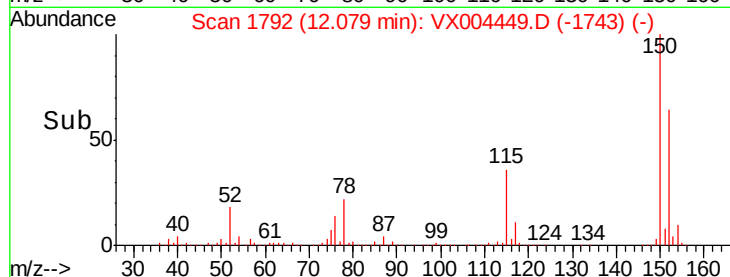
150 154.4 0.0 351.0



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: 21.84 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004449.D

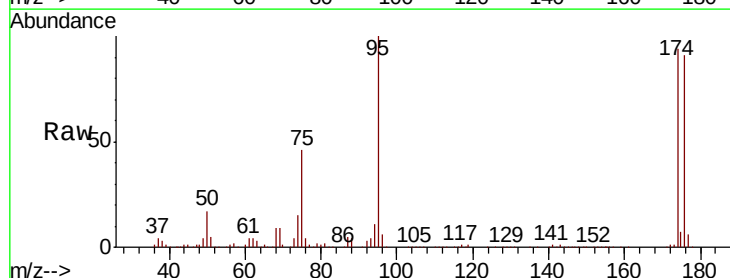
Acq: 10 Sep 2018 15:28

Tgt Ion: 75 Resp: 114467

Ion Ratio Lower Upper

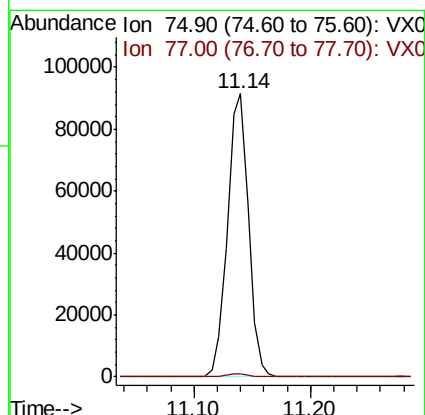
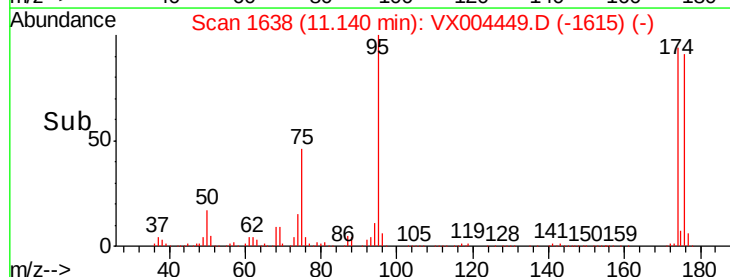
75 100

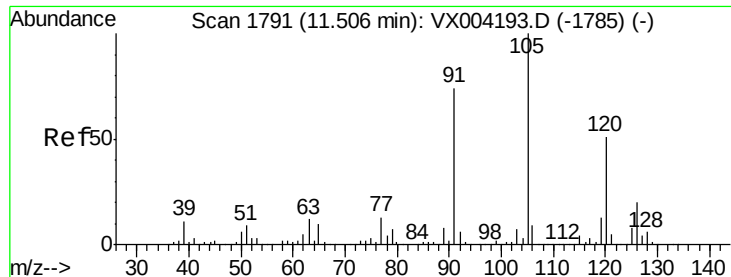
77 1.4 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

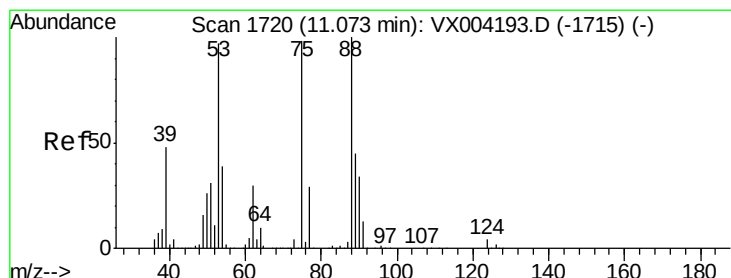
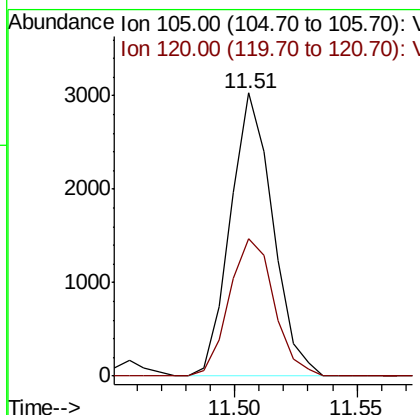
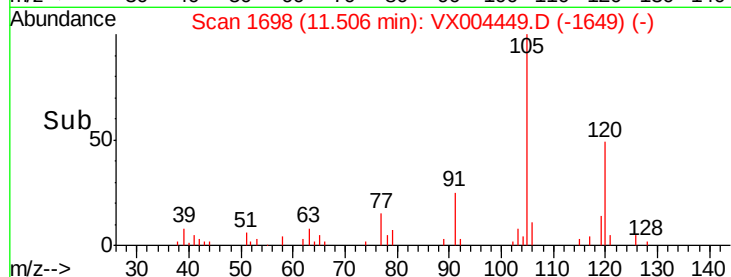
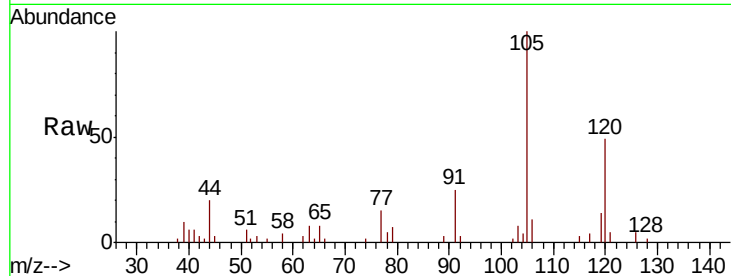




#80
 1,3,5-Trimethylbenzene
 Concen: 0.26 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX004449.D
 Acq: 10 Sep 2018 15:28

Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704ZHE#06

Tot Ion:105 Resp: 3645
 Ion Ratio Lower Upper
 105 100
 120 51.3 25.6 76.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.87 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.07 min
 Lab File: VX004449.D
 Acq: 10 Sep 2018 15:28

Tgt Ion: 75 Resp: 114467
 Ion Ratio Lower Upper
 75 100
 53 0.2 80.1 120.1#
 89 0.0 37.2 55.8#

