

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX111418\
 Data File : VX005980.D
 Acq On : 14 Nov 2018 17:55
 Operator : JC/MD
 Sample : PB114787ZHE#03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114787ZHE#03

Quant Time: Nov 15 00:24:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X110718W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 07 14:40:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	128825	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.87	114	189093	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	167719	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	80508	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	74388	50.23	ug/l	0.00
Spiked Amount			Recovery	=	100.46%	
35) Dibromofluoromethane	5.51	113	59081	45.94	ug/l	0.00
Spiked Amount			Recovery	=	91.88%	
50) Toluene-d8	8.71	98	225494	52.74	ug/l	0.00
Spiked Amount			Recovery	=	105.48%	
62) 4-Bromofluorobenzene	11.14	95	78066	50.78	ug/l	0.00
Spiked Amount			Recovery	=	101.56%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	206	0.220	ug/l	96
16) Acetone	2.45	43	4902	6.147	ug/l	96
18) Methyl Acetate	2.78	43	2599	Below Cal		99
20) Methylene Chloride	2.86	84	4993	3.812	ug/l	96
25) 2-Butanone	4.70	43	927	0.739	ug/l #	88
29) Tetrahydrofuran	5.15	42	510	0.634	ug/l #	53
31) Cyclohexane	5.67	56	2291	1.110	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	8628	4.733	ug/l #	49
37) Ethyl Acetate	4.70	43	927	0.387	ug/l #	69
38) Carbon Tetrachloride	5.67	117	11043	6.051	ug/l #	16
41) Methacrylonitrile	5.16	41	319	0.246	ug/l #	40
43) Isopropyl Acetate	6.46	43	16732	4.817	ug/l	99
48) Methyl methacrylate	7.68	41	5730	3.674	ug/l #	16
49) 1,4-Dioxane	7.88	88	23	0.684	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	43896	20.052	ug/l #	51
54) cis-1,3-Dichloropropene	8.62	75	20167	10.961	ug/l #	63
56) Ethyl methacrylate	9.30	69	504	0.254	ug/l #	1
57) 1,3-Dichloropropane	9.54	76	4755	2.138	ug/l #	43
59) 2-Hexanone	9.54	43	70574	36.574	ug/l #	53
74) N-amyl acetate	10.69	43	6986	3.858	ug/l #	54
76) 1,2,3-Trichloropropane	11.13	75	37492	22.870	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.51	105	4345	1.098	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.13	75	37492	72.892	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.80	105	304	Below Cal		87
95) Naphthalene	13.83	128	278	1.224	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.01 min

Lab File: VX005980.D

Acq: 14 Nov 2018 17:55

Instrument :

MSVOA_X

ClientSampleId :

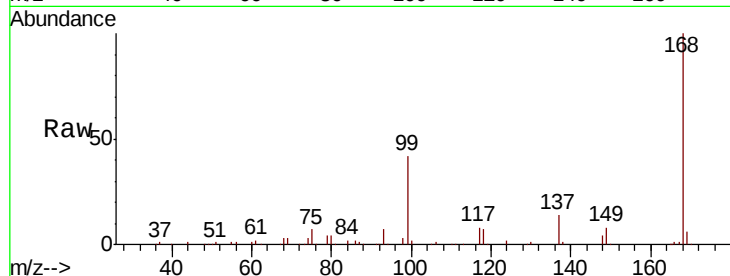
PB114787ZHE#03

Tot Ion:168 Resp: 128825

Ion Ratio Lower Upper

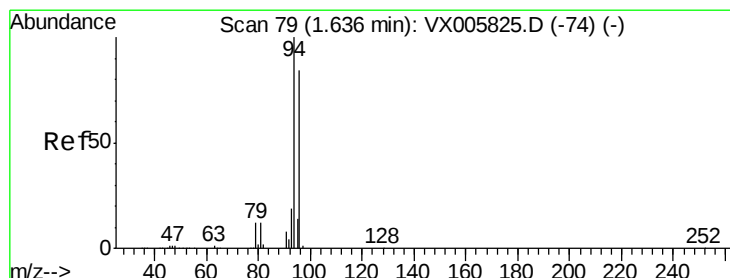
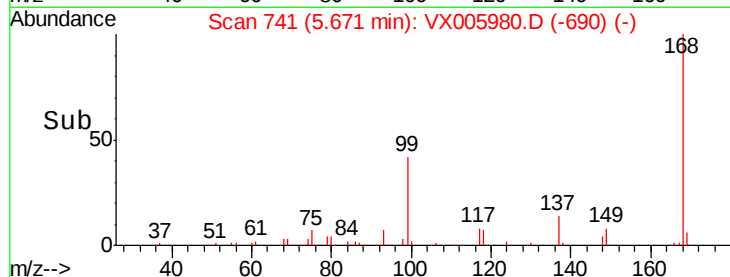
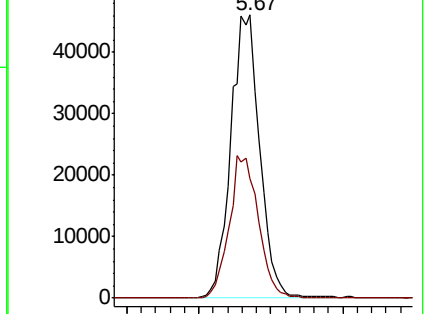
168 100

99 42.5 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.220 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX005980.D

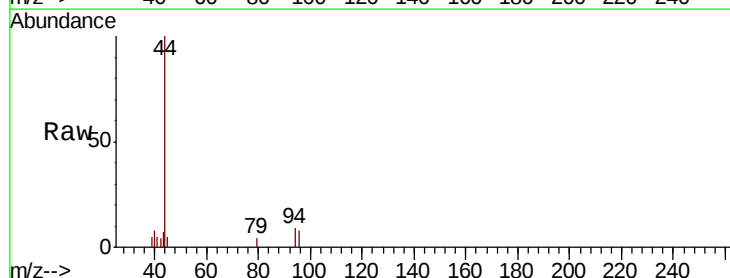
Acq: 14 Nov 2018 17:55

Tgt Ion: 94 Resp: 206

Ion Ratio Lower Upper

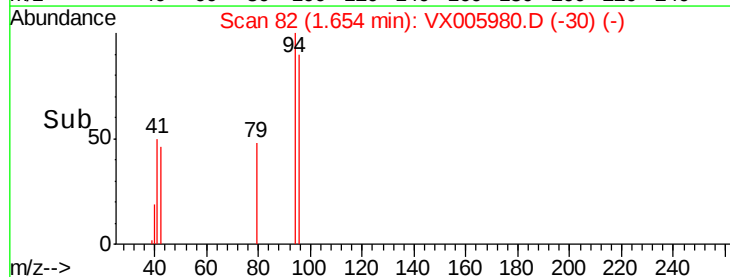
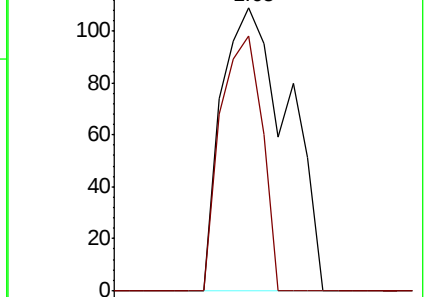
94 100

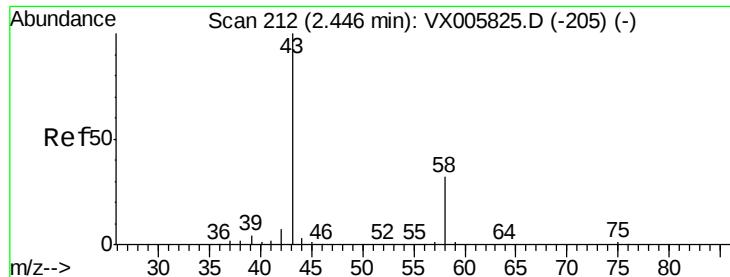
96 89.9 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#16

Acetone

Concen: 6.147 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005980.D

Acq: 14 Nov 2018 17:55

Instrument :

MSVOA_X

ClientSampleId :

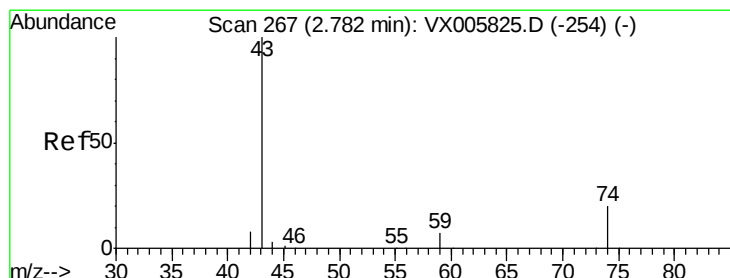
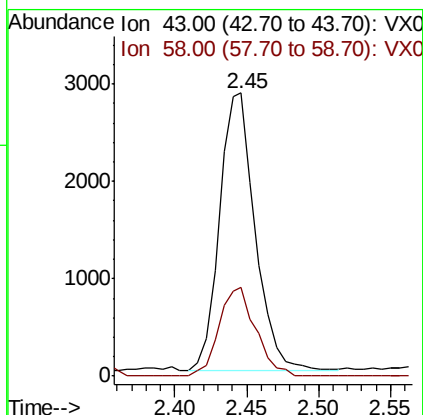
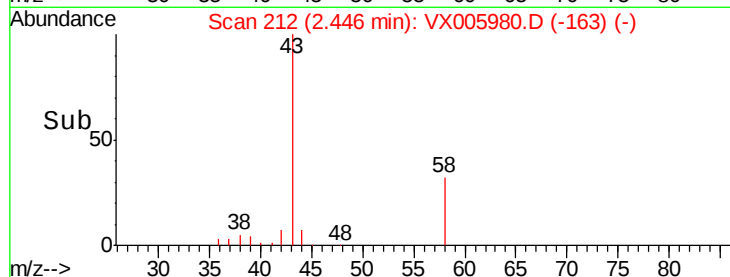
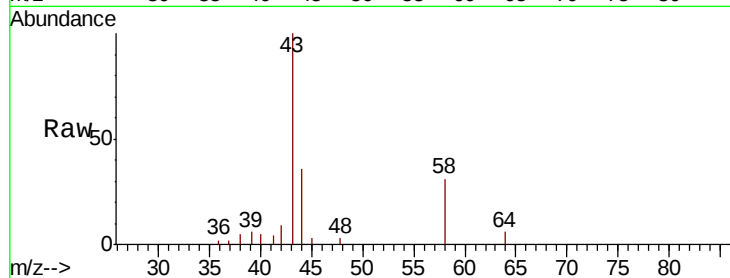
PB114787ZHE#03

Tot Ion: 43 Resp: 4902

Ion Ratio Lower Upper

43 100

58 31.9 23.8 35.6



#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX005980.D

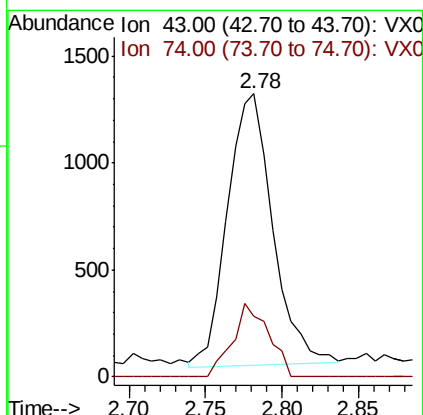
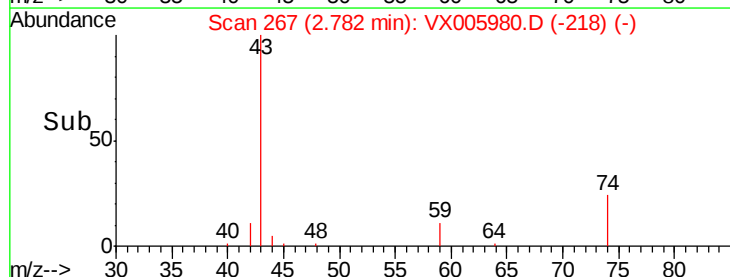
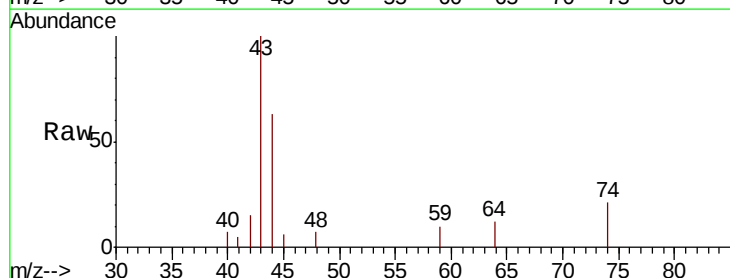
Acq: 14 Nov 2018 17:55

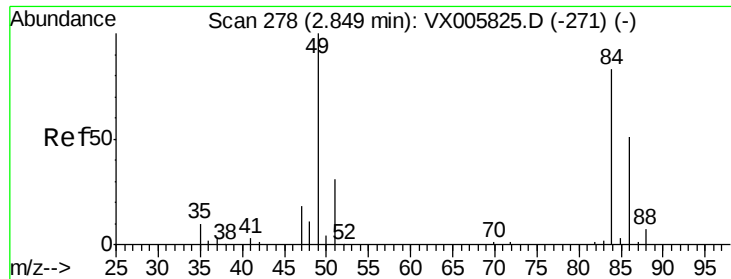
Tgt Ion: 43 Resp: 2599

Ion Ratio Lower Upper

43 100

74 21.5 16.8 25.2

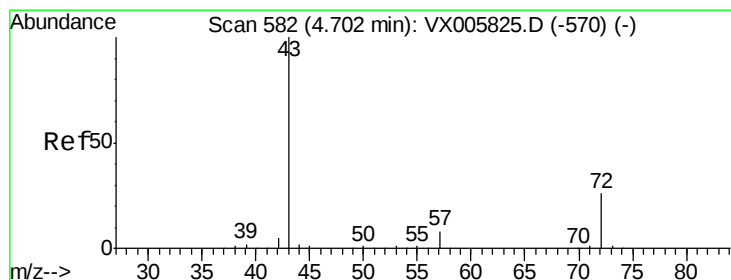
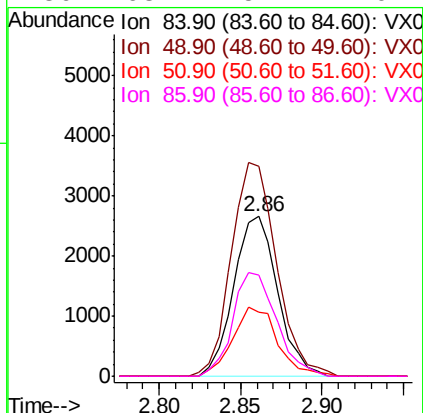
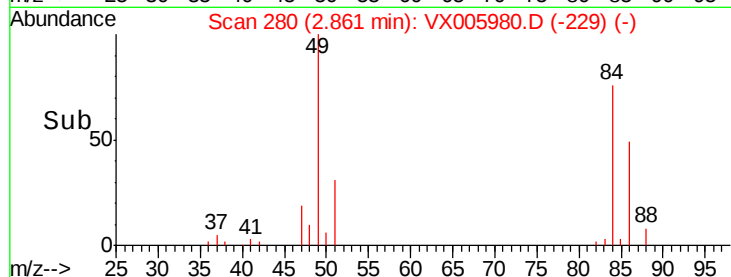
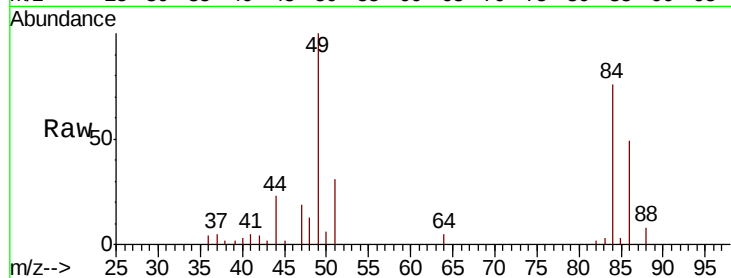




#20
Methvlene Chloride
Concen: 3.812 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005980.D
Acq: 14 Nov 2018 17:55

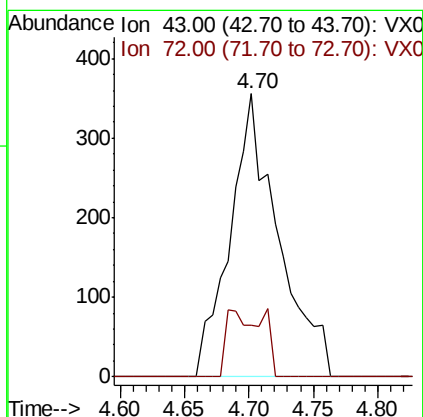
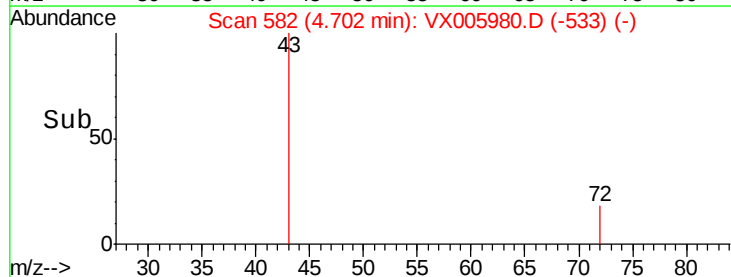
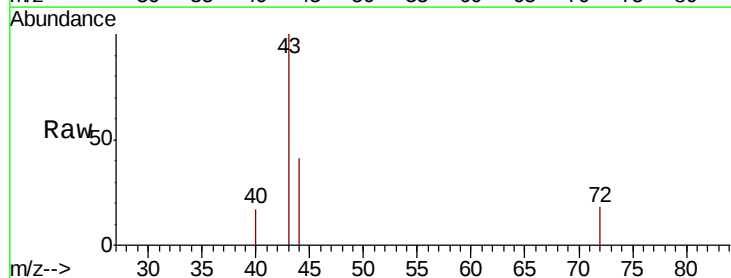
Instrument :
MSVOA_X
ClientSampleId :
PB114787ZHE#03

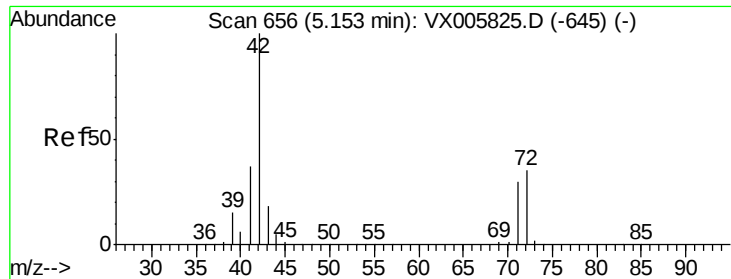
Tot Ion: 84 Resp: 4993
Ion Ratio Lower Upper
84 100
49 131.2 109.5 164.3
51 40.5 33.3 49.9
86 63.7 52.7 79.1



#25
2-Butanone
Concen: 0.739 ug/l
RT: 4.70 min Scan# 582
Delta R.T. -0.00 min
Lab File: VX005980.D
Acq: 14 Nov 2018 17:55

Tgt Ion: 43 Resp: 927
Ion Ratio Lower Upper
43 100
72 18.3 19.2 28.8#

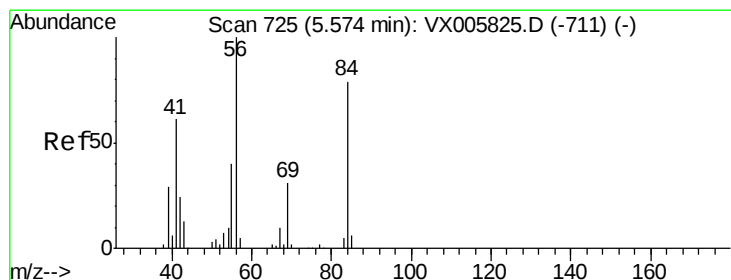
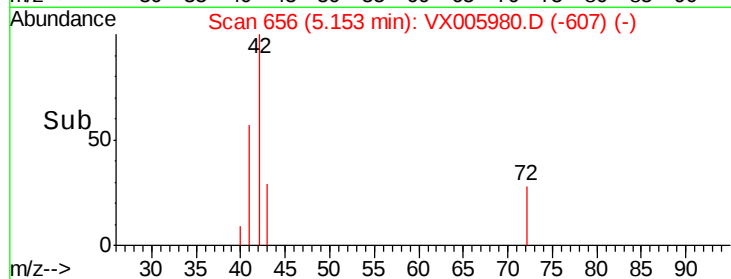
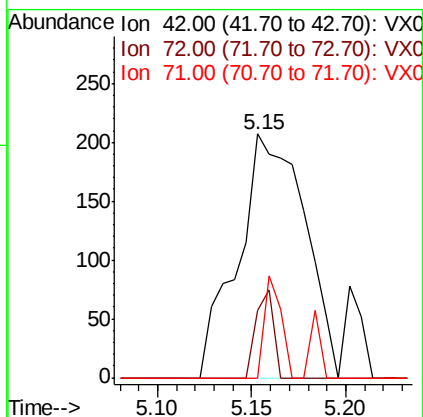
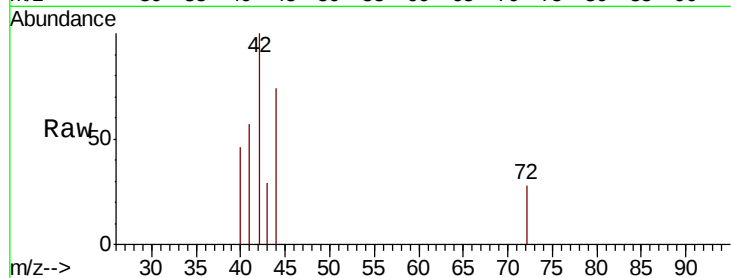




#29
Tetrahydrofuran
Concen: 0.634 ug/l
RT: 5.15 min Scan# 656
Delta R.T. -0.00 min
Lab File: VX005980.D
Acq: 14 Nov 2018 17:55

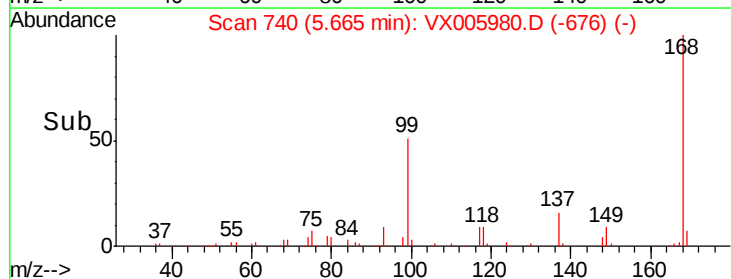
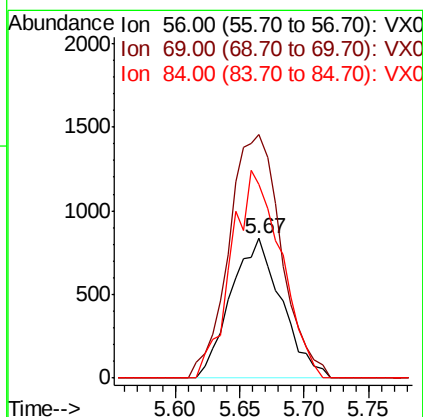
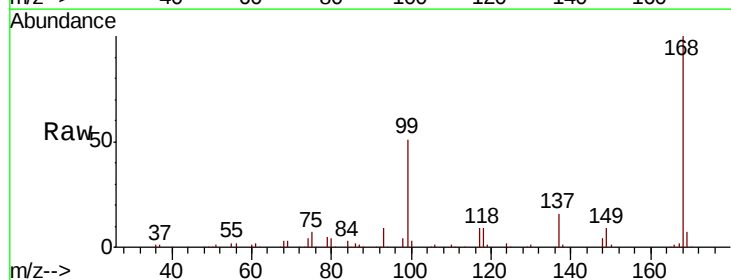
Instrument :
MSVOA_X
ClientSampleId :
PB114787ZHE#03

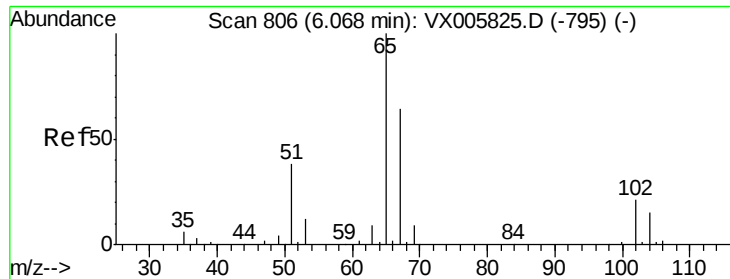
Tot Ion: 42 Resp: 510
Ion Ratio Lower Upper
42 100
72 9.4 32.0 48.0#
71 10.4 29.8 44.8#



#31
Cyclohexane
Concen: 1.110 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX005980.D
Acq: 14 Nov 2018 17:55

Tgt Ion: 56 Resp: 2291
Ion Ratio Lower Upper
56 100
69 174.5 22.6 34.0#
84 138.6 62.7 94.1#

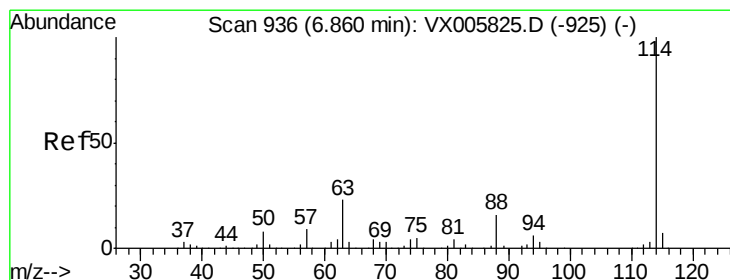
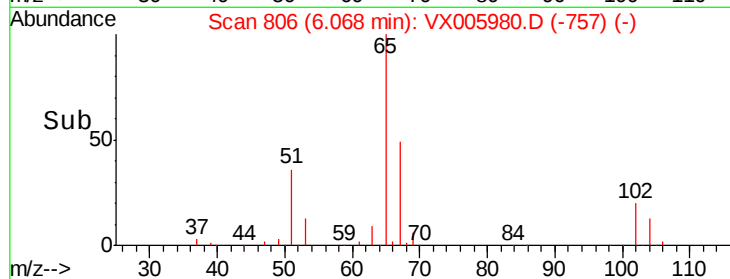
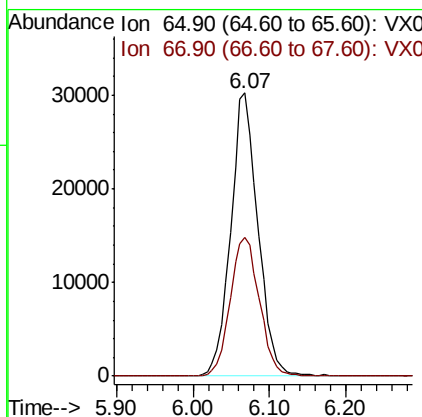
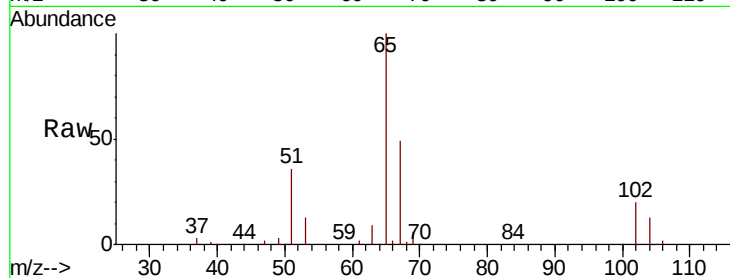




#33
 1,2-Dichloroethane-d4
 Concen: 50.228 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX005980.D
 Acq: 14 Nov 2018 17:55

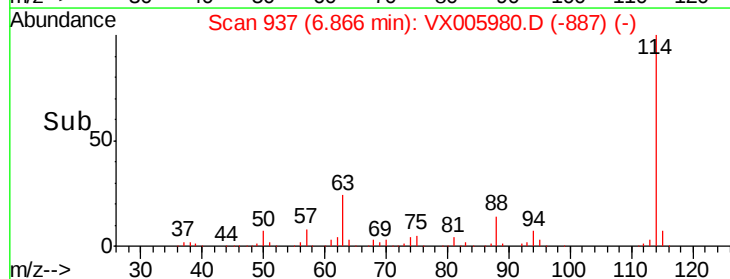
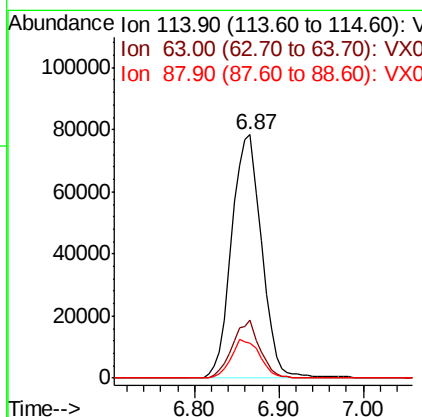
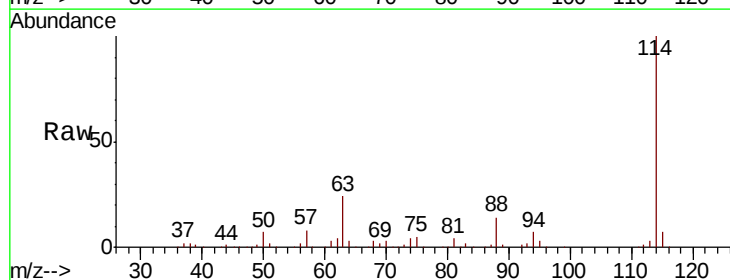
Instrument :
 MSVOA_X
 ClientSampleId :
 PB114787ZHE#03

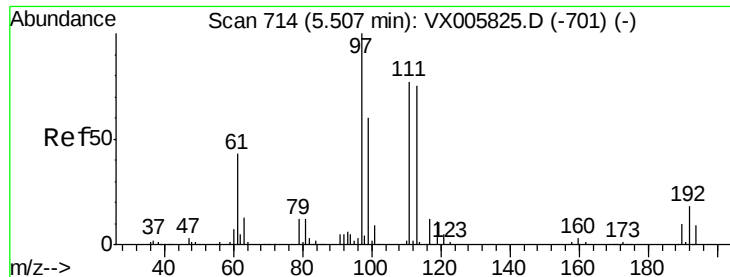
Tot Ion: 65 Resp: 74388
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. 0.01 min
 Lab File: VX005980.D
 Acq: 14 Nov 2018 17:55

Tgt Ion: 114 Resp: 189093
 Ion Ratio Lower Upper
 114 100
 63 23.6 0.0 42.8
 88 14.5 0.0 31.2

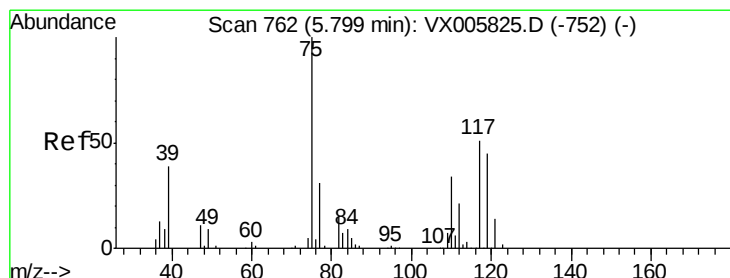
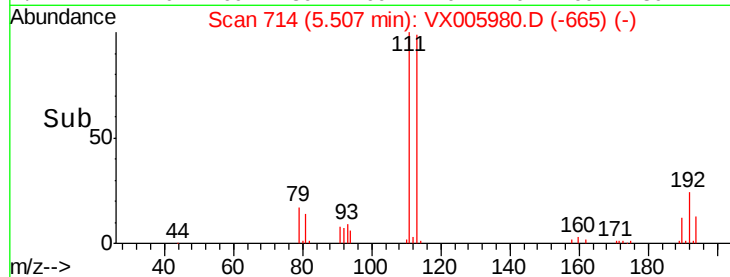
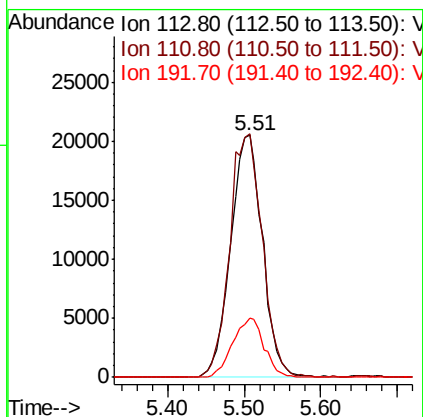
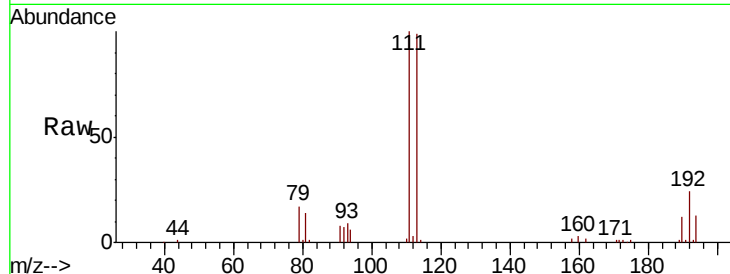




#35
 Dibromofluoromethane
 Concen: 45.937 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. -0.00 min
 Lab File: VX005980.D
 Acq: 14 Nov 2018 17:55

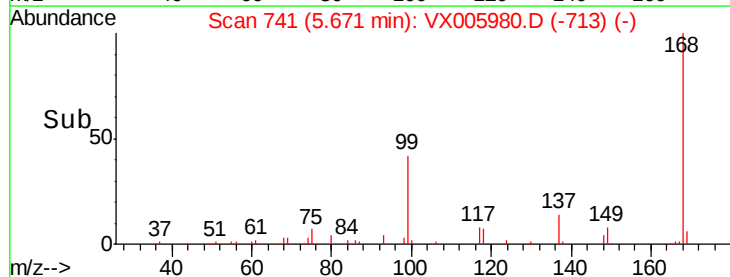
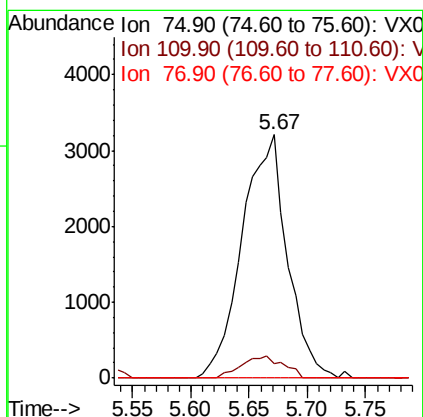
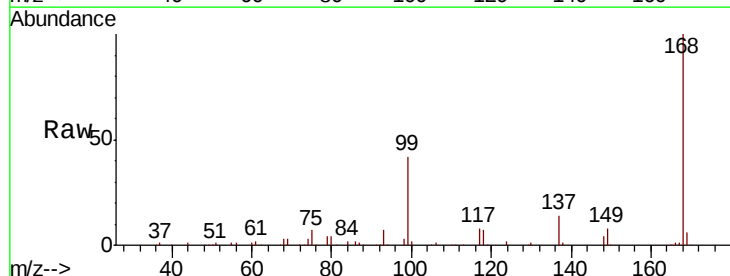
Instrument :
 MSVOA_X
 ClientSampleId :
 PB114787ZHE#03

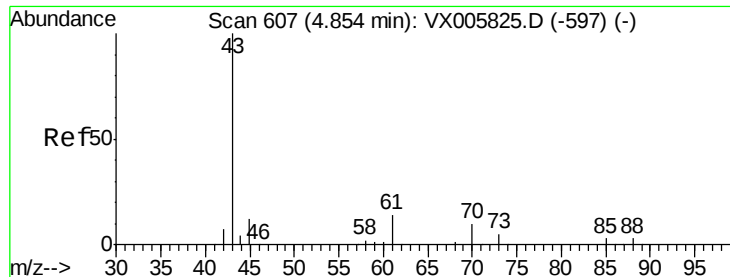
Tot Ion:113 Resp: 59081
 Ion Ratio Lower Upper
 113 100
 111 102.9 82.3 123.5
 192 24.0 17.9 26.9



#36
 1,1-Dichloropropene
 Concen: 4.733 ug/l
 RT: 5.67 min Scan# 741
 Delta R.T. -0.13 min
 Lab File: VX005980.D
 Acq: 14 Nov 2018 17:55

Tgt Ion: 75 Resp: 8628
 Ion Ratio Lower Upper
 75 100
 110 8.4 17.4 52.2#
 77 0.0 25.8 38.6#

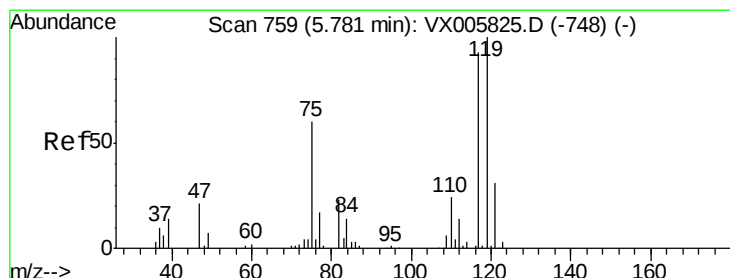
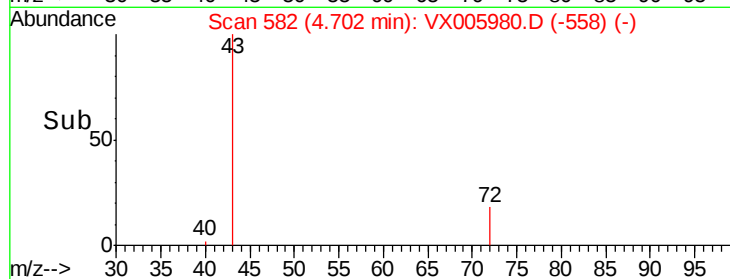
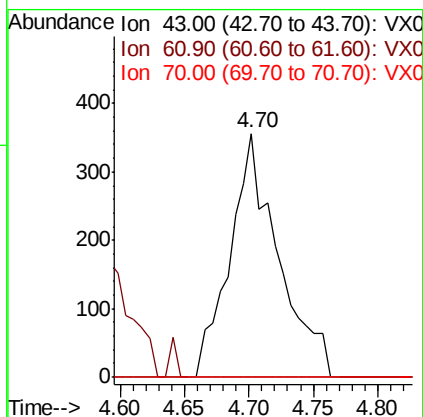
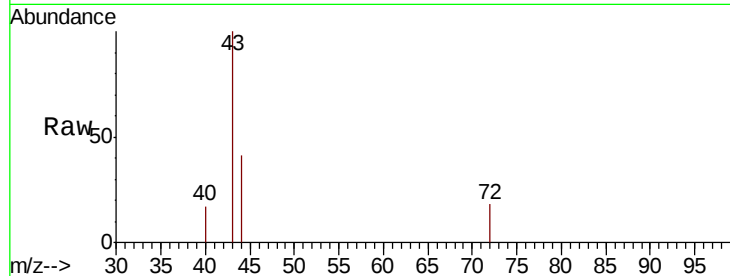




#37
Ethyl Acetate
Concen: 0.387 ug/l
RT: 4.70 min Scan# 582
Delta R.T. -0.15 min
Lab File: VX005980.D
Acq: 14 Nov 2018 17:55

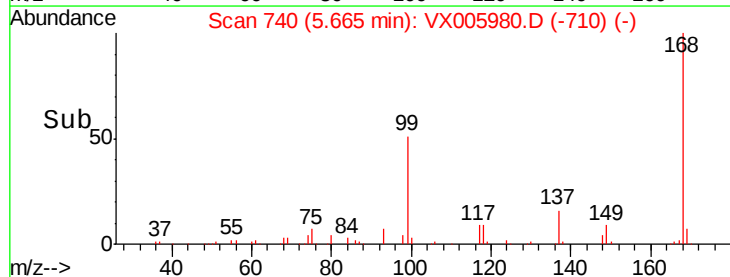
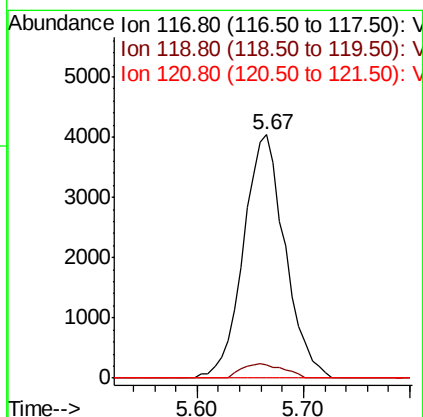
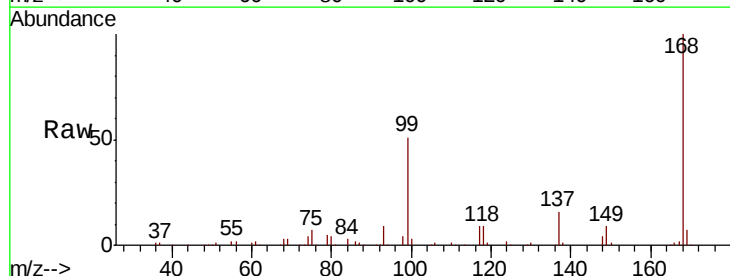
Instrument :
MSVOA_X
ClientSampleId :
PB114787ZHE#03

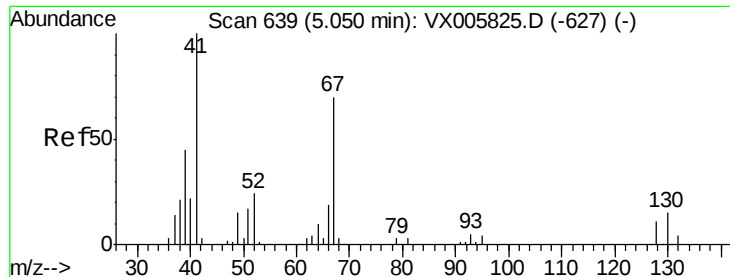
Tot Ion: 43 Resp: 927
Ion Ratio Lower Upper
43 100
61 0.0 10.8 16.2#
70 0.0 7.8 11.8#



#38
Carbon Tetrachloride
Concen: 6.051 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX005980.D
Acq: 14 Nov 2018 17:55

Tgt Ion: 117 Resp: 11043
Ion Ratio Lower Upper
117 100
119 5.5 78.1 117.1#
121 0.0 24.6 36.8#

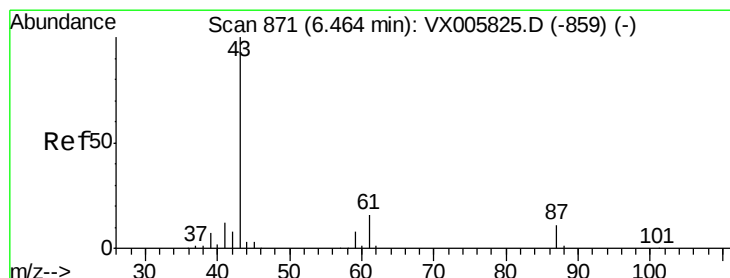
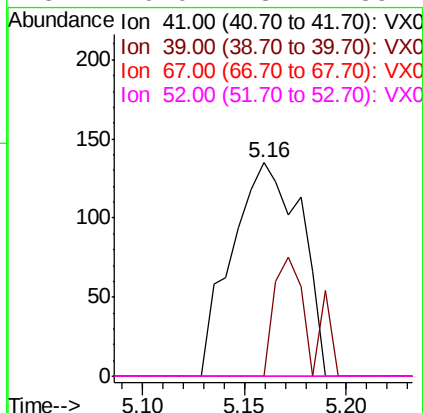
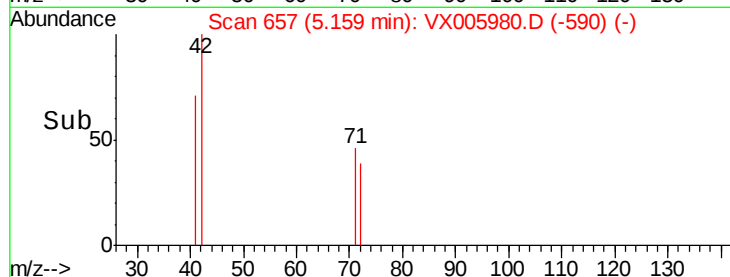
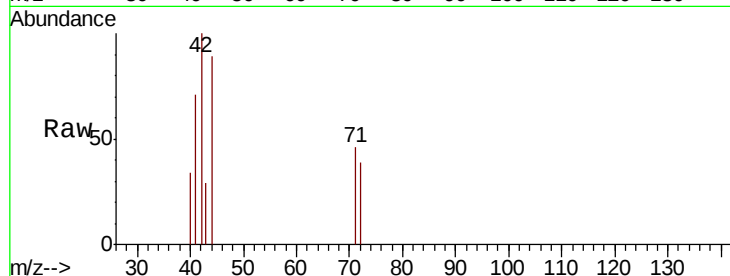




#41
Methacrylonitrile
Concen: 0.246 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.11 min
Lab File: VX005980.D
Acq: 14 Nov 2018 17:55

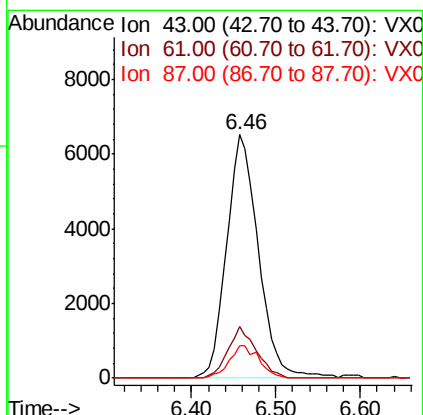
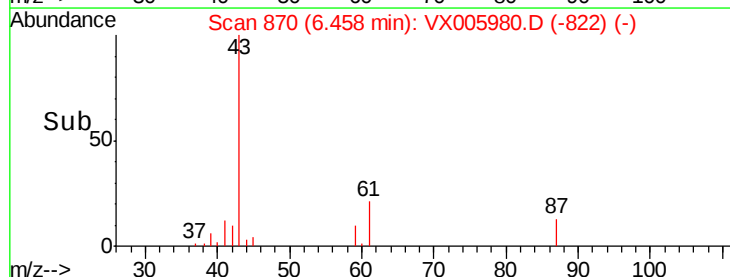
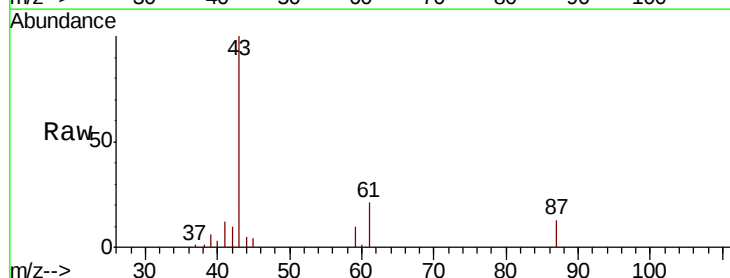
Instrument :
MSVOA_X
ClientSampleId :
PB114787ZHE#03

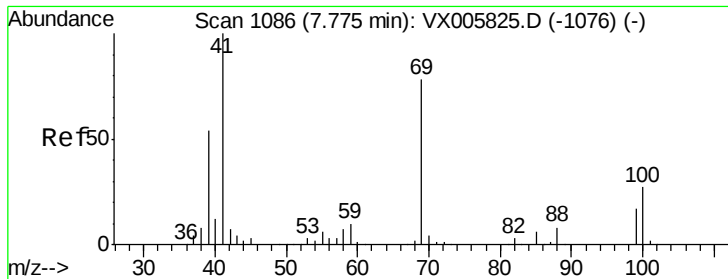
Tot Ion: 41 Resp: 319
Ion Ratio Lower Upper
41 100
39 28.2 42.2 63.2#
67 0.0 53.4 80.0#
52 0.0 23.4 35.2#



#43
Isopropyl Acetate
Concen: 4.817 ug/l
RT: 6.46 min Scan# 870
Delta R.T. -0.01 min
Lab File: VX005980.D
Acq: 14 Nov 2018 17:55

Tgt Ion: 43 Resp: 16732
Ion Ratio Lower Upper
43 100
61 18.7 14.6 22.0
87 12.2 9.6 14.4

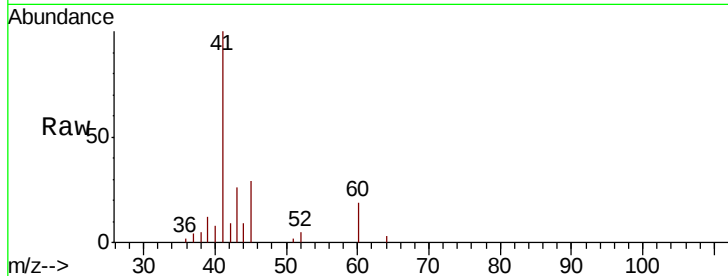




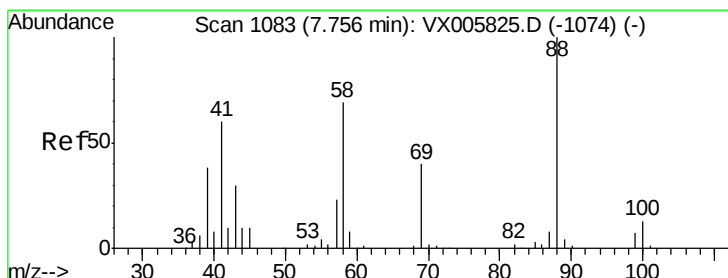
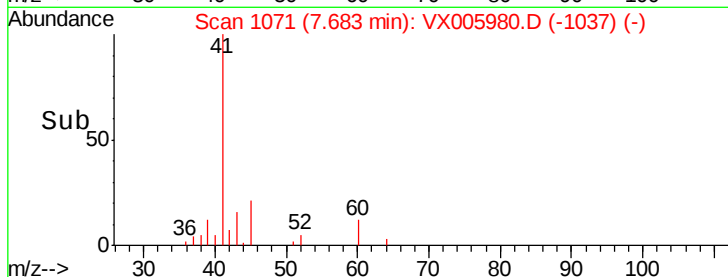
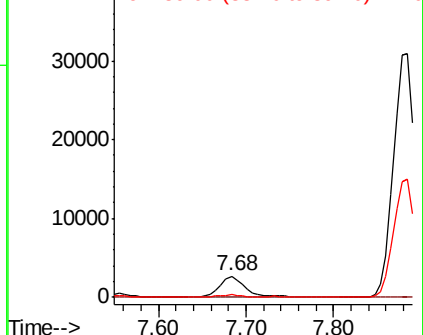
#48
Methvl methacrylate
Concen: 3.674 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX005980.D
Acq: 14 Nov 2018 17:55

Instrument :
MSVOA_X
ClientSampleId :
PB114787ZHE#03

Tot Ion: 41 Resp: 5730
Ion Ratio Lower Upper
41 100
69 0.0 63.2 94.8#
39 0.0 42.2 63.2#

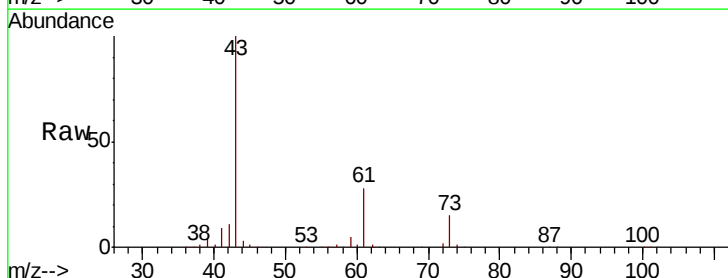


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

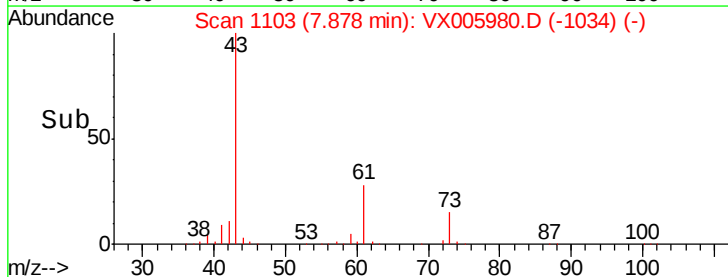
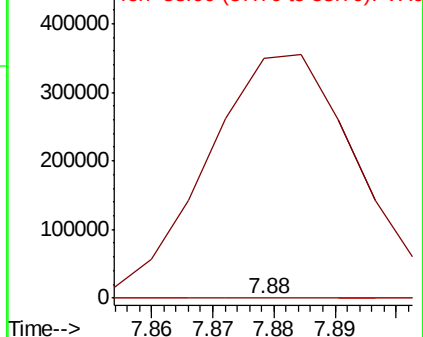


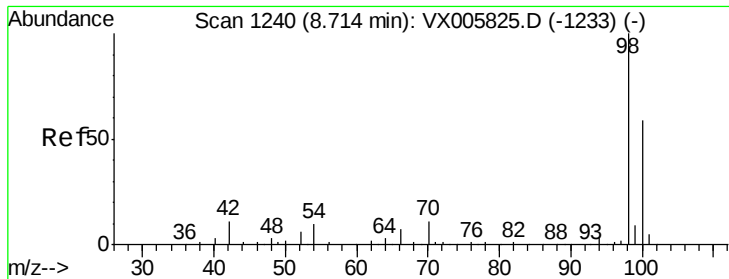
#49
1,4-Dioxane
Concen: 0.684 ug/l
RT: 7.88 min Scan# 1103
Delta R.T. 0.12 min
Lab File: VX005980.D
Acq: 14 Nov 2018 17:55

Tgt Ion: 88 Resp: 23
Ion Ratio Lower Upper
88 100
43 2713300.0 27.4 41.0#
58 11173.9 59.4 89.2#



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: 52.737 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005980.D

Acq: 14 Nov 2018 17:55

Instrument :

MSVOA_X

ClientSampleId :

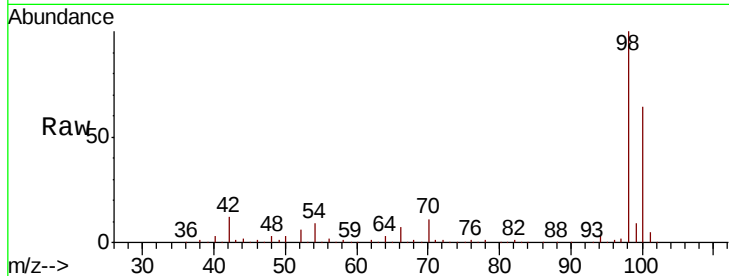
PB114787ZHE#03

Tot Ion: 98 Resp: 225494

Ion Ratio Lower Upper

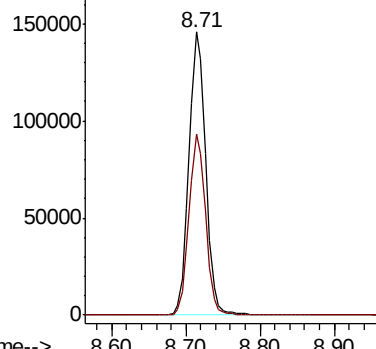
98 100

100 63.9 51.3 76.9

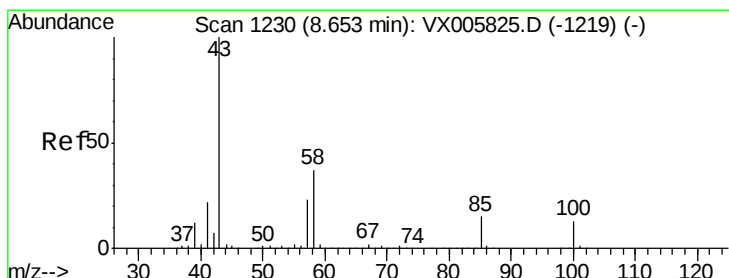
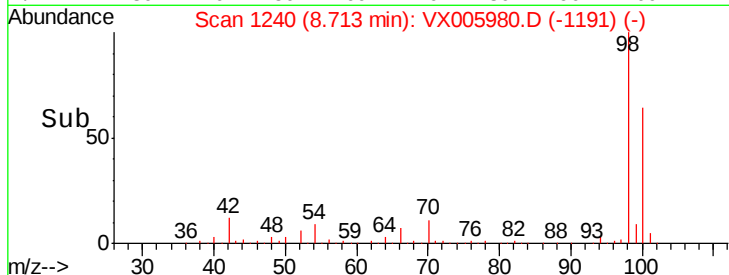


Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



Time-->



#51

4-Methyl-2-Pentanone

Concen: 20.052 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.04 min

Lab File: VX005980.D

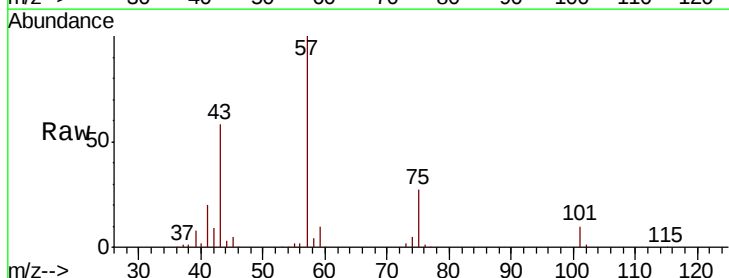
Acq: 14 Nov 2018 17:55

Tgt Ion: 43 Resp: 43896

Ion Ratio Lower Upper

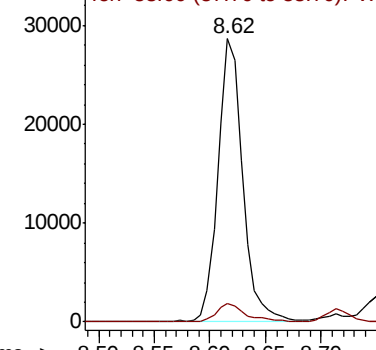
43 100

58 7.8 29.7 44.5#

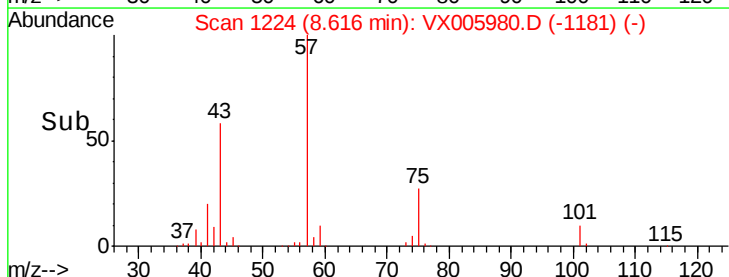


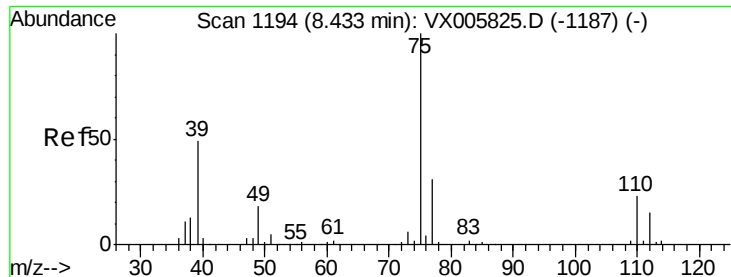
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



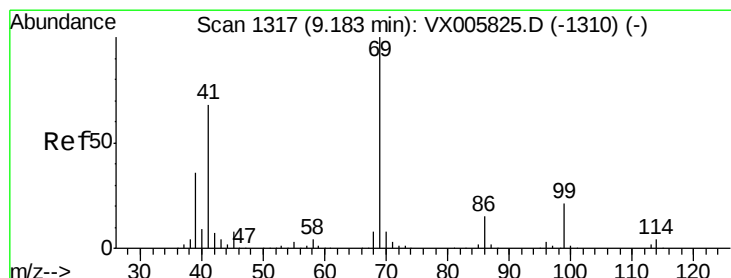
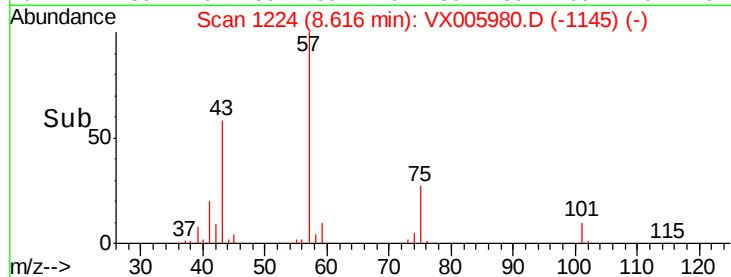
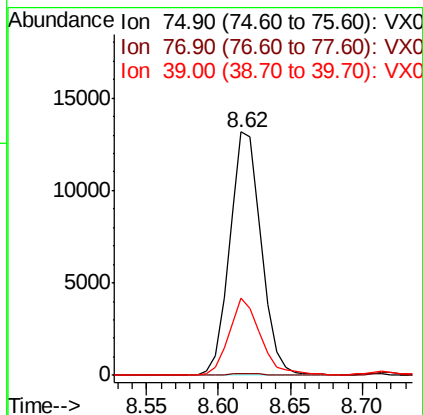
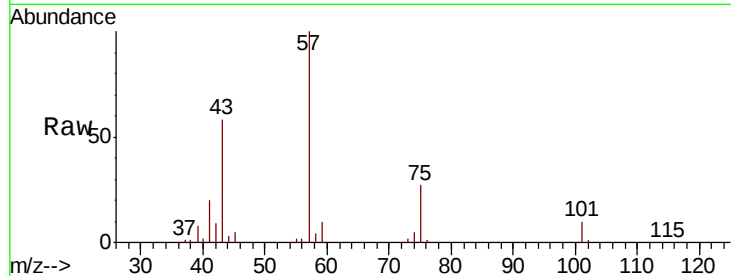


#54

cis-1,3-Dichloropropene
 Concen: 10.961 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. 0.18 min
 Lab File: VX005980.D
 Acq: 14 Nov 2018 17:55

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114787ZHE#03

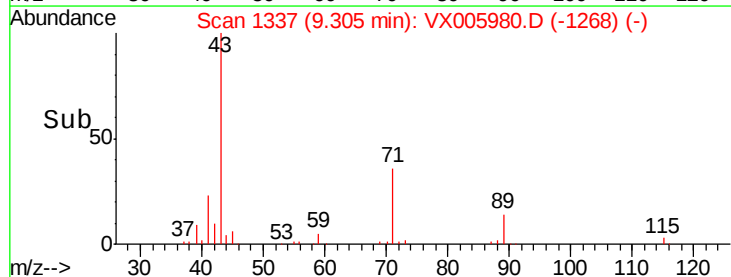
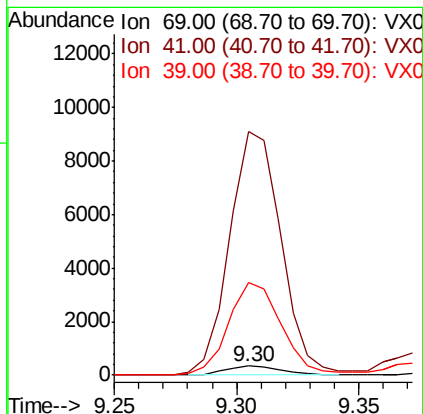
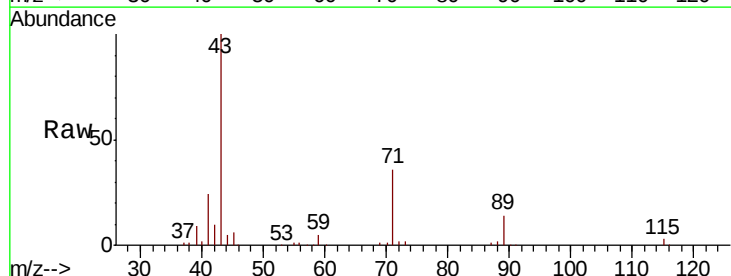
Tot Ion: 75 Resp: 20167
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.2 37.8#
 39 31.6 38.2 57.2#

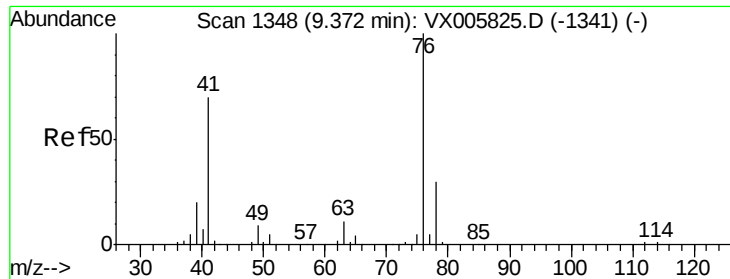


#56

Ethyl methacrylate
 Concen: 0.254 ug/l
 RT: 9.30 min Scan# 1337
 Delta R.T. 0.12 min
 Lab File: VX005980.D
 Acq: 14 Nov 2018 17:55

Tgt Ion: 69 Resp: 504
 Ion Ratio Lower Upper
 69 100
 41 2668.7 57.0 85.6#
 39 1041.3 28.3 42.5#

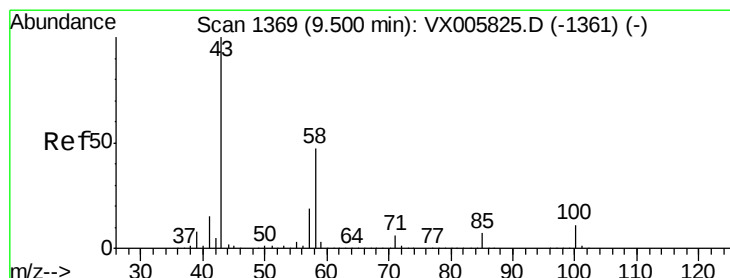
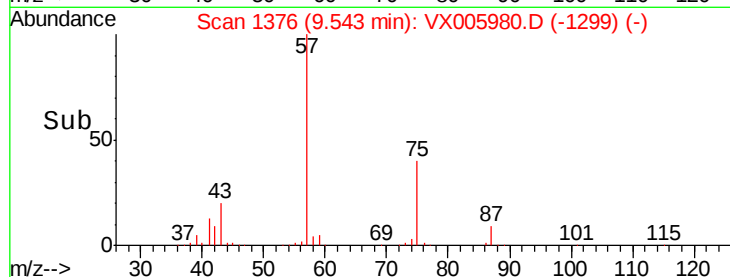
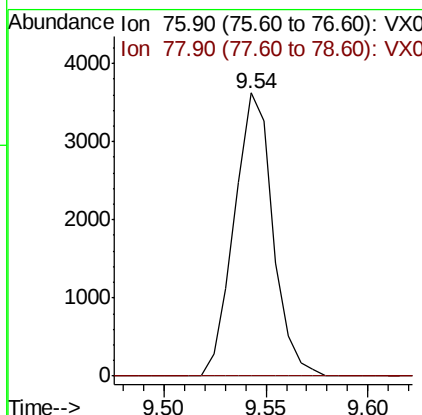
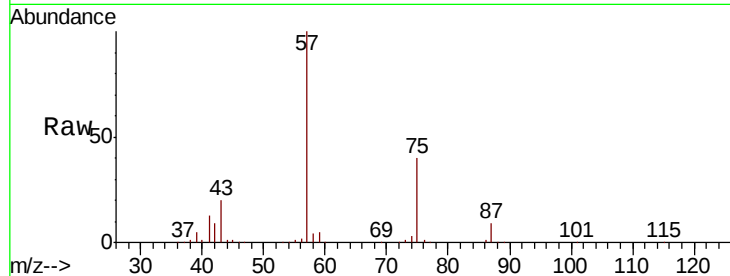




#57
 1,3-Dichloropropane
 Concen: 2.138 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.17 min
 Lab File: VX005980.D
 Acq: 14 Nov 2018 17:55

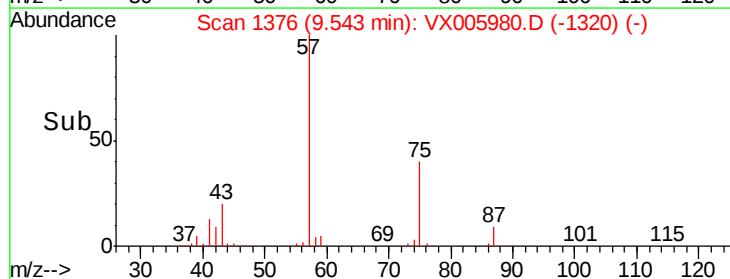
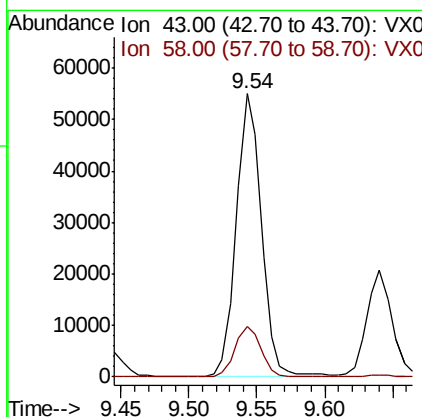
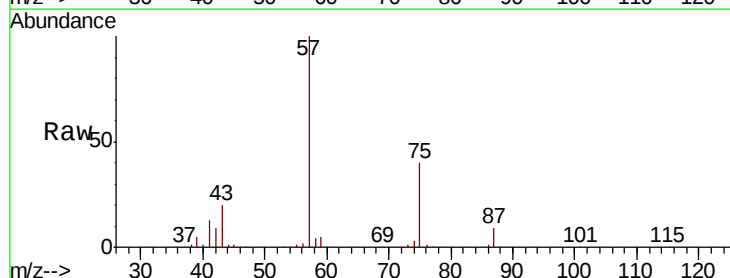
Instrument :
 MSVOA_X
 ClientSampleId :
 PB114787ZHE#03

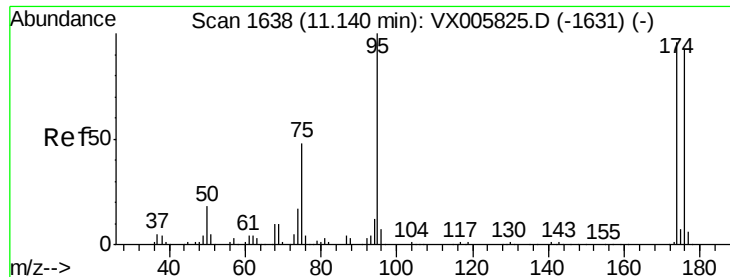
Tot Ion: 76 Resp: 4755
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.3 37.9#



#59
 2-Hexanone
 Concen: 36.574 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.04 min
 Lab File: VX005980.D
 Acq: 14 Nov 2018 17:55

Tgt Ion: 43 Resp: 70574
 Ion Ratio Lower Upper
 43 100
 58 18.7 25.9 77.8#





#62

4-Bromofluorobenzene

Concen: 50.781 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005980.D

Acq: 14 Nov 2018 17:55

Instrument :

MSVOA_X

ClientSampleId :

PB114787ZHE#03

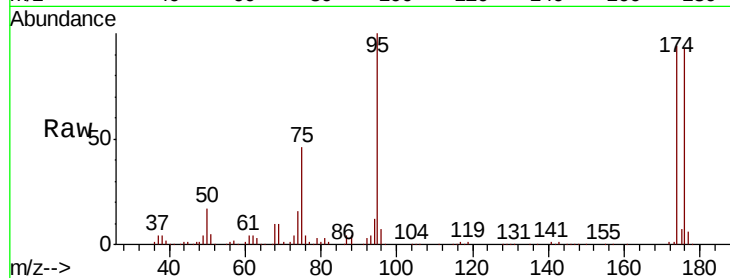
Tot Ion: 95 Resp: 78066

Ion Ratio Lower Upper

95 100

174 88.9 0.0 184.4

176 87.1 0.0 177.4

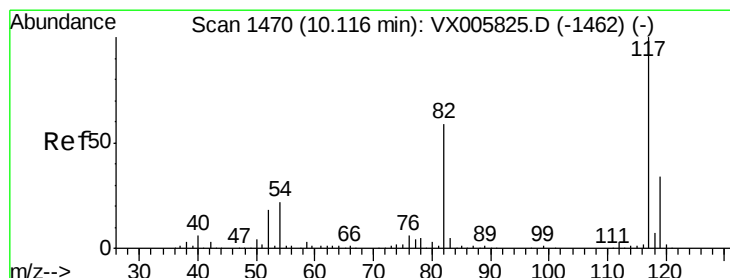
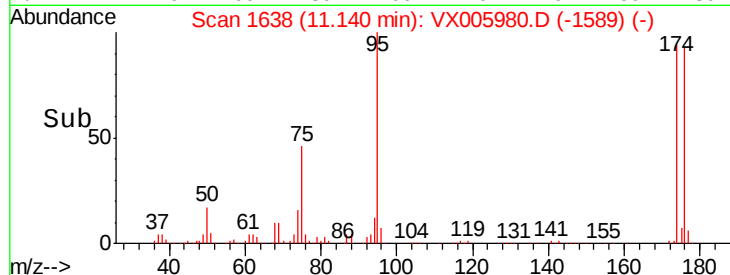


Abundance Ion 94.90 (94.60 to 95.60): VX005825.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX005825.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX005825.D (-1631) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005980.D

Acq: 14 Nov 2018 17:55

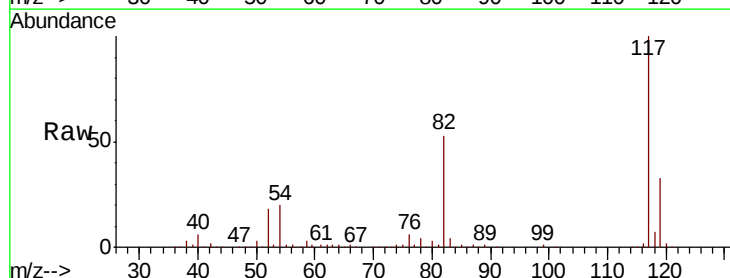
Tgt Ion: 117 Resp: 167719

Ion Ratio Lower Upper

117 100

82 53.3 44.1 66.1

119 33.0 26.2 39.2

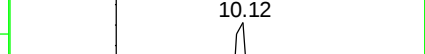
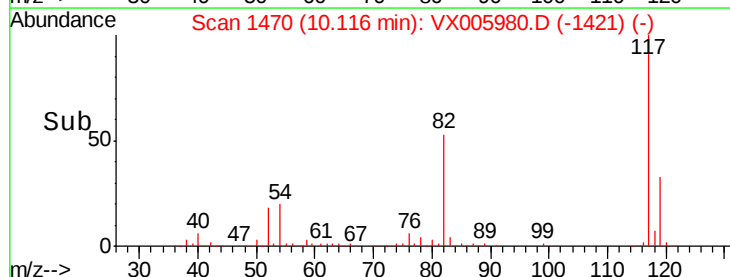


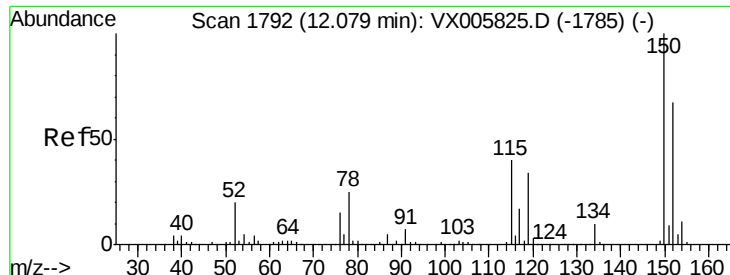
Abundance Ion 116.90 (116.60 to 117.60): VX005825.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX005825.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX005825.D (-1462) (-)

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005980.D

Acq: 14 Nov 2018 17:55

Instrument :

MSVOA_X

ClientSampleId :

PB114787ZHE#03

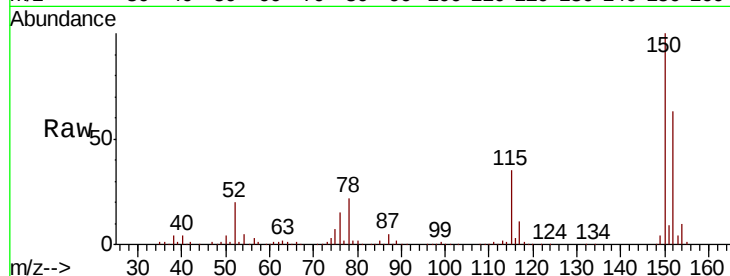
Tot Ion:152 Resp: 80508

Ion Ratio Lower Upper

152 100

115 56.1 39.4 118.1

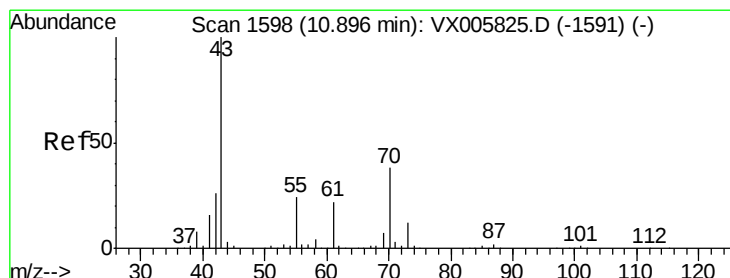
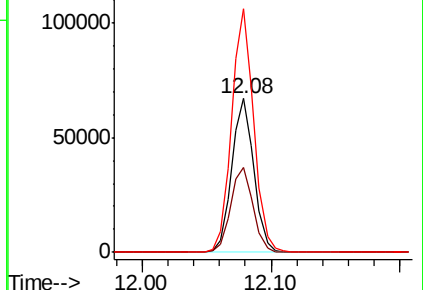
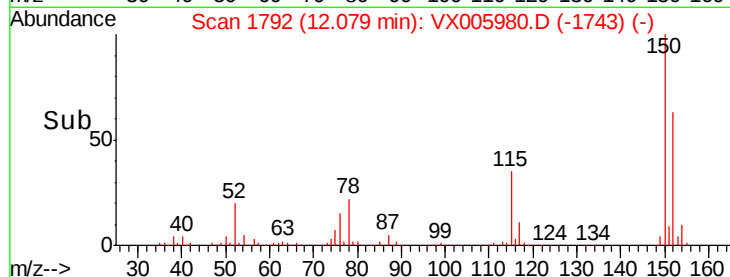
150 157.9 0.0 346.4



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



#74

N-ethyl acetate

Concen: 3.858 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX005980.D

Acq: 14 Nov 2018 17:55

Tgt Ion: 43 Resp: 6986

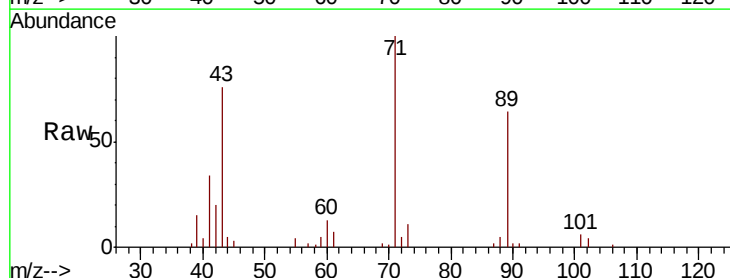
Ion Ratio Lower Upper

43 100

70 1.9 31.6 47.4#

55 5.0 19.7 29.5#

61 9.9 18.3 27.5#

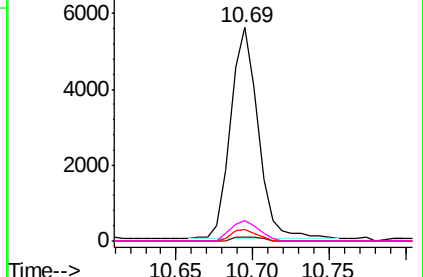
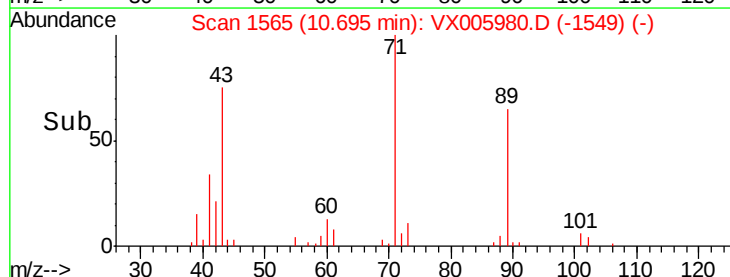


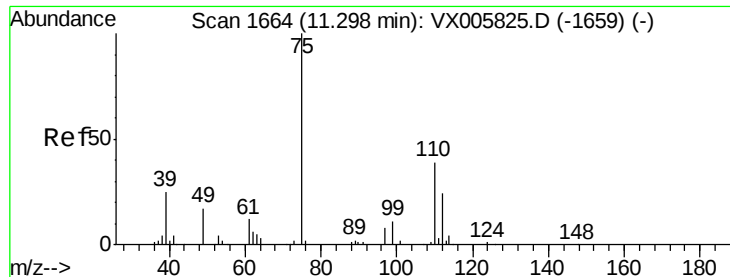
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

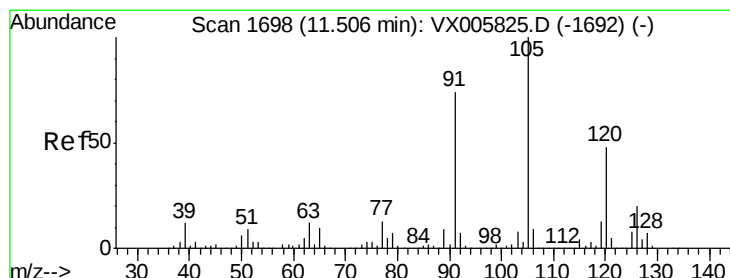
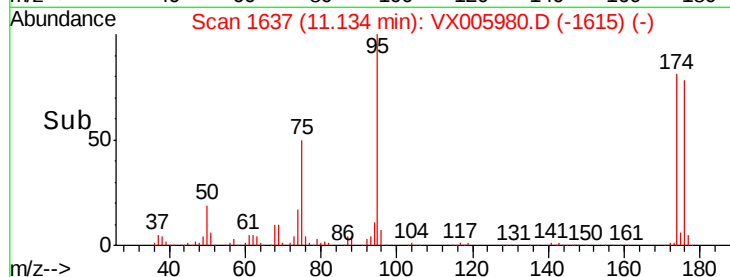
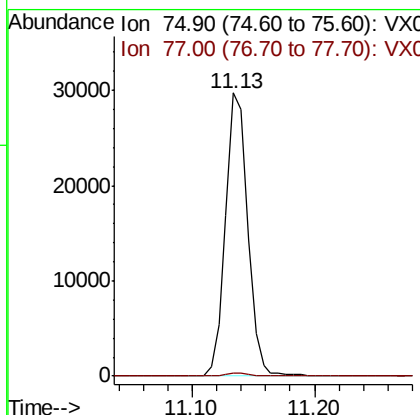
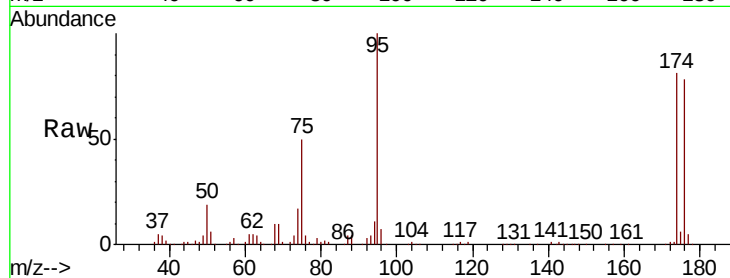




#76
 1,2,3-Trichloropropane
 Concen: 22.870 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX005980.D
 Acq: 14 Nov 2018 17:55

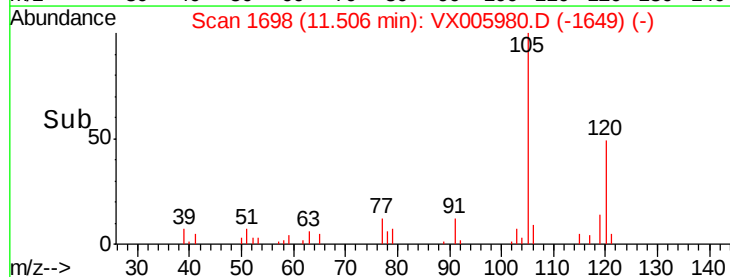
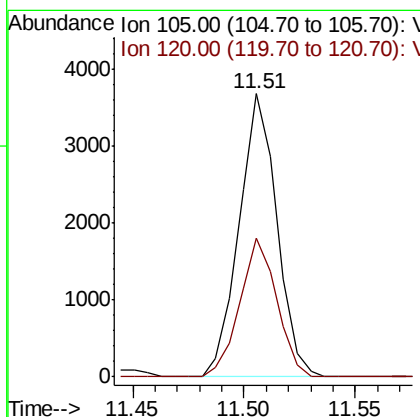
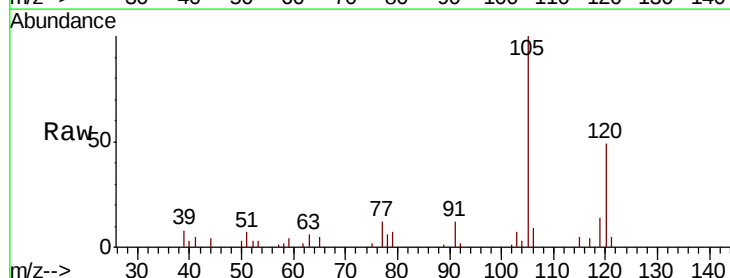
Instrument :
 MSVOA_X
 ClientSampleId :
 PB114787ZHE#03

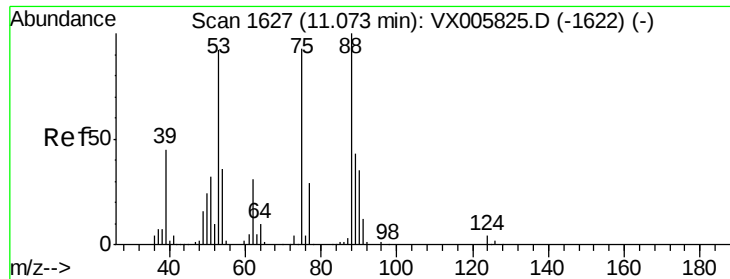
Tot Ion: 75 Resp: 37492
 Ion Ratio Lower Upper
 75 100
 77 1.2 20.5 61.6#



#80
 1,3,5-Trimethylbenzene
 Concen: 1.098 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX005980.D
 Acq: 14 Nov 2018 17:55

Tgt Ion: 105 Resp: 4345
 Ion Ratio Lower Upper
 105 100
 120 47.9 24.1 72.2





#81

trans-1,4-Dichloro-2-butene

Concen: 72.892 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX005980.D

Acq: 14 Nov 2018 17:55

Instrument :

MSVOA_X

ClientSampleId :

PB114787ZHE#03

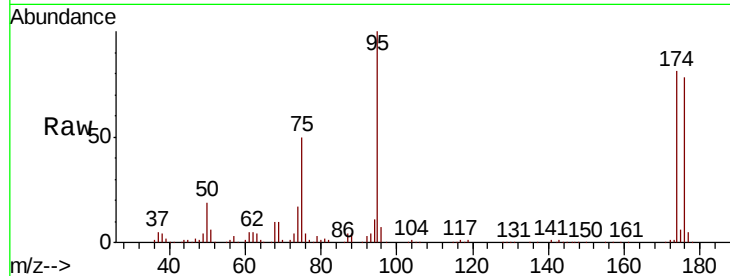
Tot Ion: 75 Resp: 37492

Ion Ratio Lower Upper

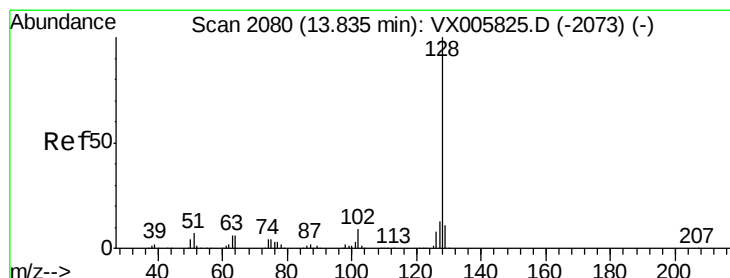
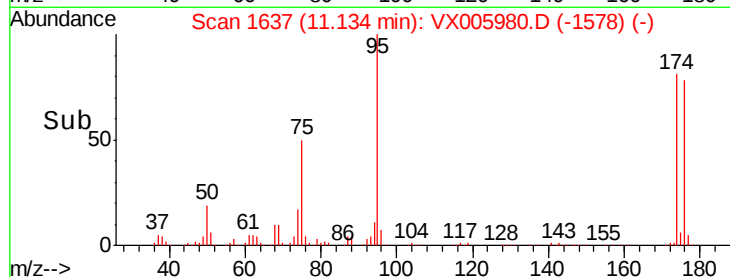
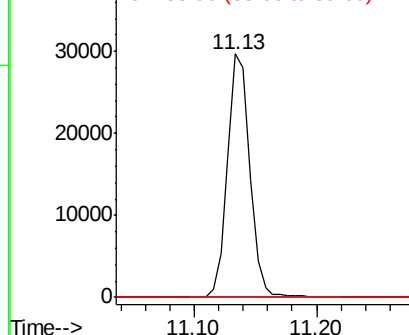
75 100

53 0.0 80.2 120.2#

89 0.0 39.8 59.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#95

Naphthalene

Concen: 1.224 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX005980.D

Acq: 14 Nov 2018 17:55

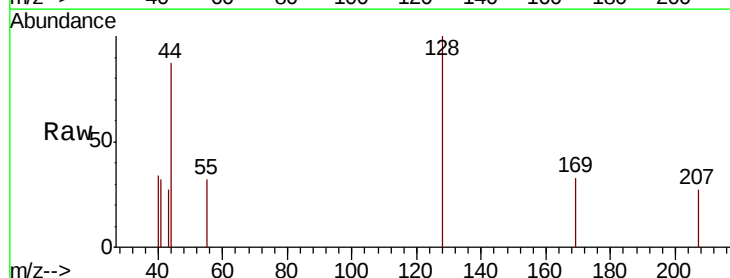
Tgt Ion: 128 Resp: 278

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

