

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111218\
 Data File : VX005904.D
 Acq On : 12 Nov 2018 16:54
 Operator : JC/MD
 Sample : PB114704TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114704TB

Quant Time: Nov 13 04:42:21 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	116424	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	170290	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	159321	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	75641	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	68721	51.34	ug/l	0.00
Spiked Amount			Recovery	=	102.68%	
35) Dibromofluoromethane	5.51	113	55647	48.04	ug/l	0.00
Spiked Amount			Recovery	=	96.08%	
50) Toluene-d8	8.71	98	213432	55.43	ug/l	0.00
Spiked Amount			Recovery	=	110.86%	
62) 4-Bromofluorobenzene	11.14	95	72523	52.38	ug/l	0.00
Spiked Amount			Recovery	=	104.76%	

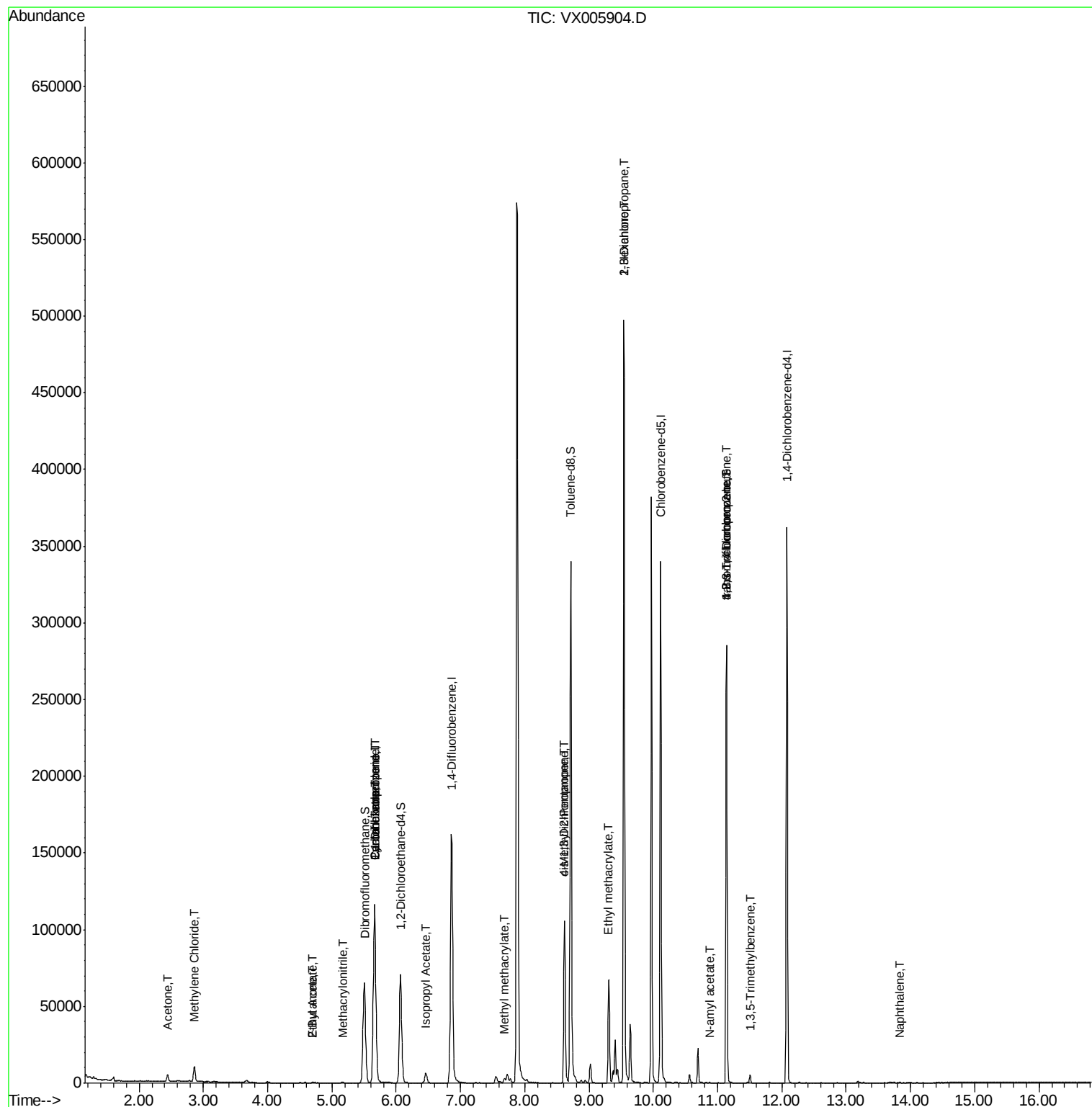
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	2.45	43	4835	6.709	ug/l	91
18) Methyl Acetate	2.78	43	783	Below Cal	#	88
20) Methylene Chloride	2.86	84	4316	3.646	ug/l	94
25) 2-Butanone	4.70	43	688	0.607	ug/l #	51
31) Cyclohexane	5.66	56	2073	1.112	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	8039	4.897	ug/l #	49
37) Ethyl Acetate	4.70	43	688	0.319	ug/l #	69
38) Carbon Tetrachloride	5.67	117	10470	6.371	ug/l #	16
41) Methacrylonitrile	5.18	41	260	0.223	ug/l #	25
43) Isopropyl Acetate	6.46	43	8644	2.763	ug/l	98
48) Methyl methacrylate	7.68	41	4106	2.923	ug/l #	16
51) 4-Methyl-2-Pentanone	8.62	43	35926	18.223	ug/l #	51
54) cis-1,3-Dichloropropene	8.62	75	16420	9.910	ug/l #	63
56) Ethyl methacrylate	9.30	69	433	0.243	ug/l #	1
57) 1,3-Dichloropropane	9.54	76	4173	2.083	ug/l #	43
59) 2-Hexanone	9.54	43	59778	34.400	ug/l #	53
74) N-amyl acetate	10.87	43	249	1.350	ug/l #	44
76) 1,2,3-Trichloropropane	11.14	75	36395	23.630	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.51	105	2144	0.577	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.14	75	36395	75.312	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.81	105	198	Below Cal	#	31
95) Naphthalene	13.83	128	189	1.211	ug/l #	69

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

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Quant Title : SW846 8260
QLast Update : Wed Nov 07 14:40:53 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005904.D

Acq: 12 Nov 2018 16:54

Instrument :

MSVOA_X

ClientSampleId :

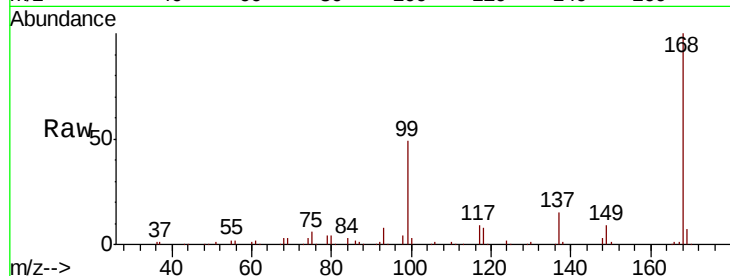
PB114704TB

Tot Ion:168 Resp: 116424

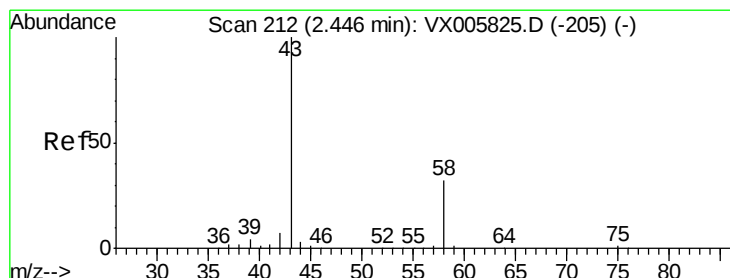
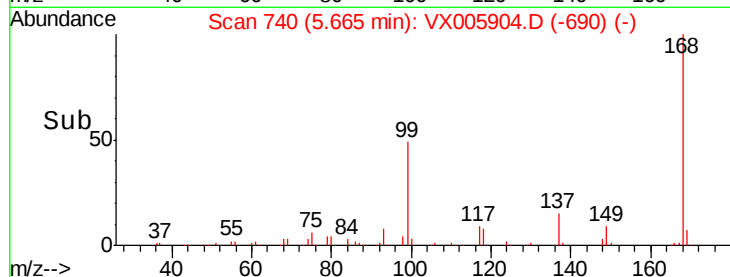
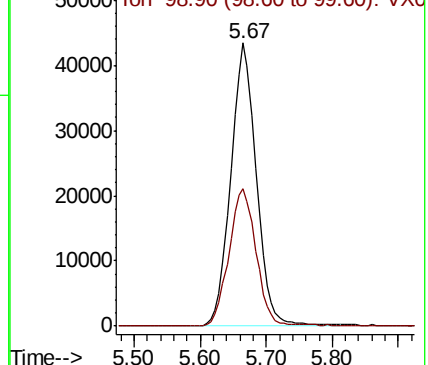
Ion Ratio Lower Upper

168 100

99 48.6 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): VX005825.D (-727) (-)



#16

Acetone

Concen: 6.709 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005904.D

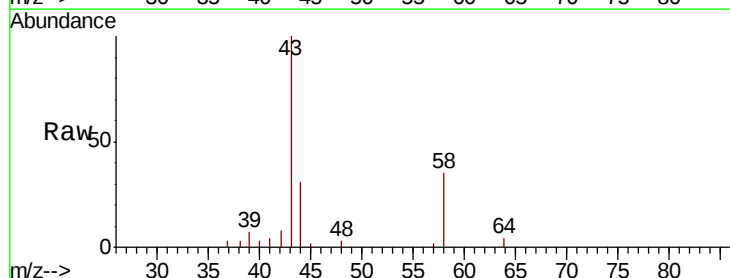
Acq: 12 Nov 2018 16:54

Tgt Ion: 43 Resp: 4835

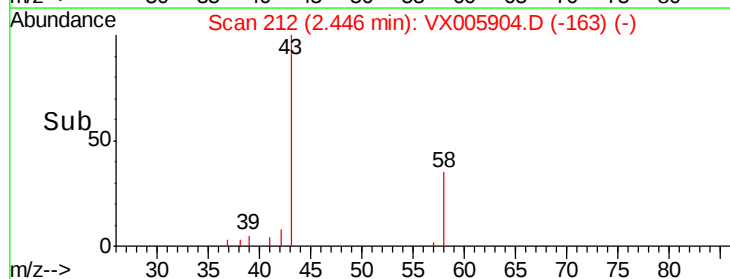
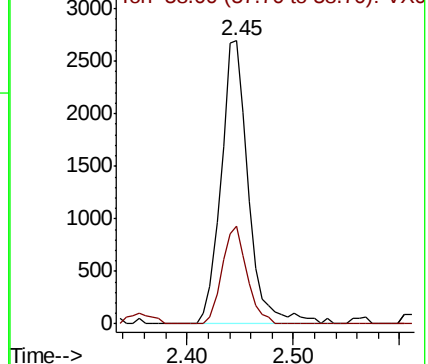
Ion Ratio Lower Upper

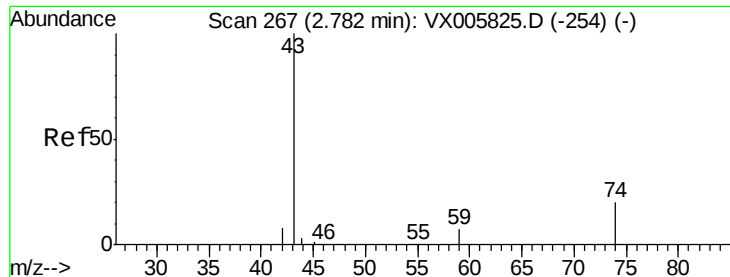
43 100

58 34.7 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX005825.D (-205) (-)





#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX005904.D

Acq: 12 Nov 2018 16:54

Instrument :

MSVOA_X

ClientSampled :

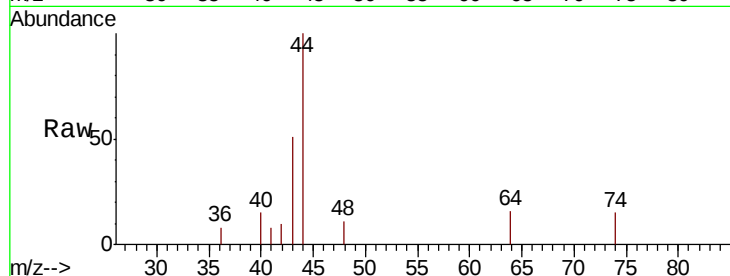
PB114704TB

Tot Ion: 43 Resp: 783

Ion Ratio Lower Upper

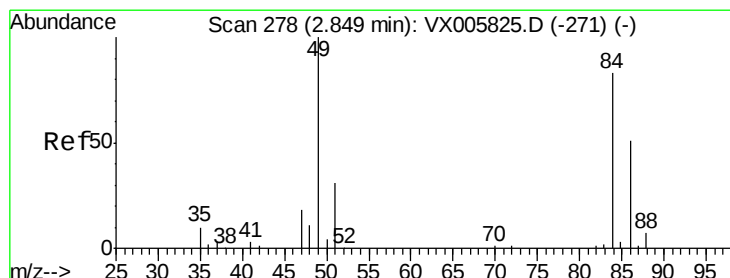
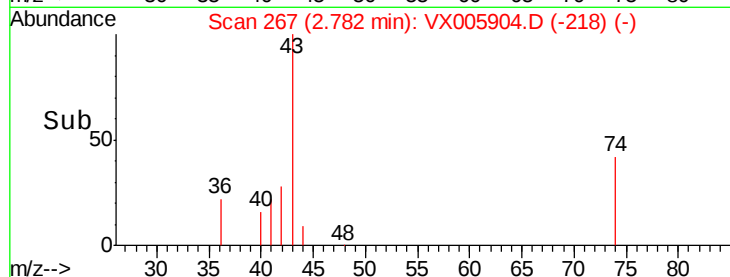
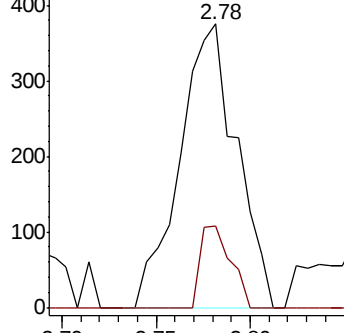
43 100

74 15.5 16.8 25.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#20

Methylene Chloride

Concen: 3.646 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX005904.D

Acq: 12 Nov 2018 16:54

Tgt Ion: 84 Resp: 4316

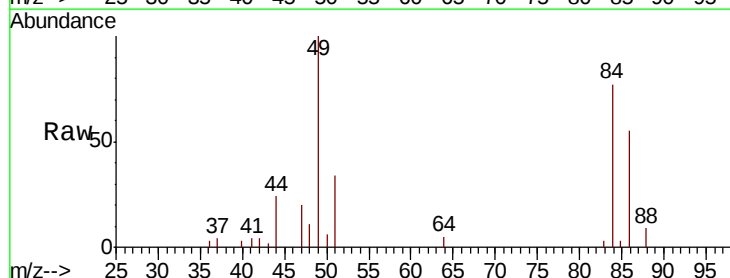
Ion Ratio Lower Upper

84 100

49 130.4 109.5 164.3

51 44.1 33.3 49.9

86 71.7 52.7 79.1

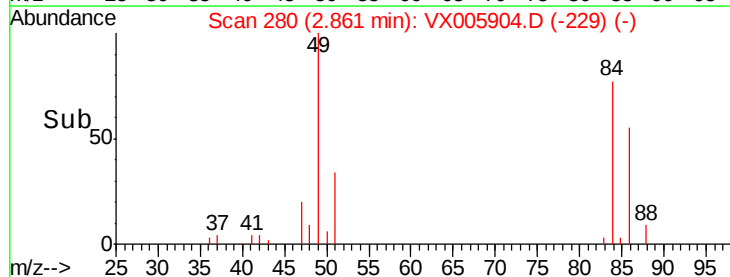
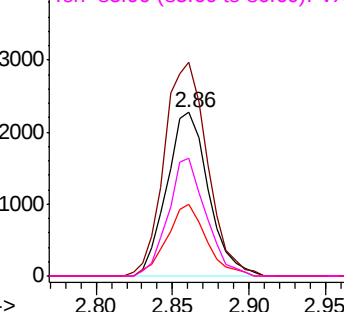


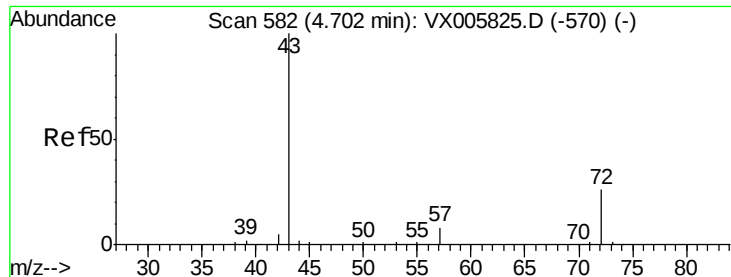
Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 0.607 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.01 min

Lab File: VX005904.D

Acq: 12 Nov 2018 16:54

Instrument :

MSVOA_X

ClientSampleId :

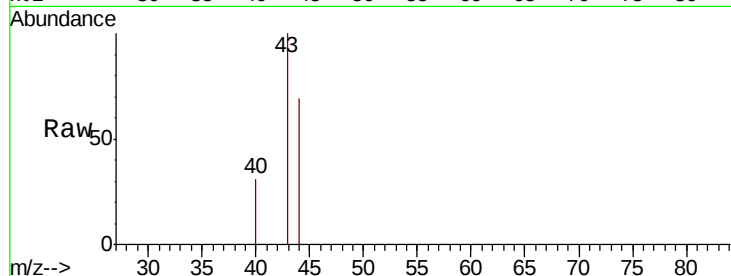
PB114704TB

Tot Ion: 43 Resp: 688

Ion Ratio Lower Upper

43 100

72 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

250

200

150

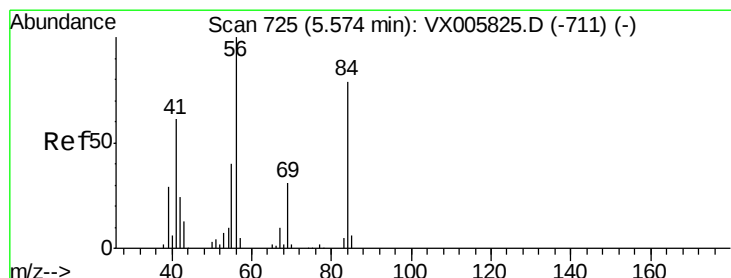
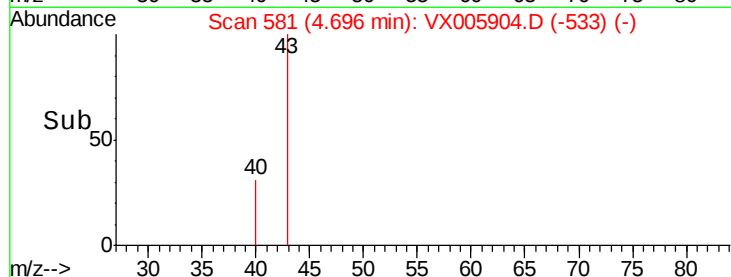
100

50

0

4.65 4.70 4.75

Time-->



#31

Cyclohexane

Concen: 1.112 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005904.D

Acq: 12 Nov 2018 16:54

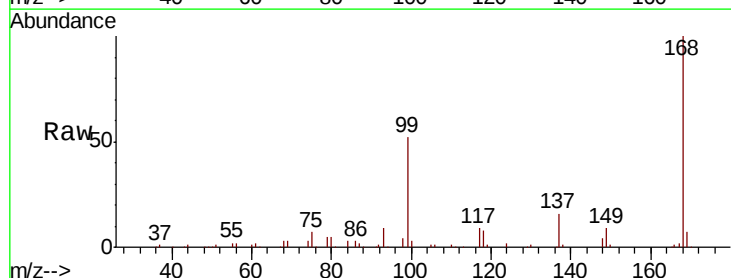
Tgt Ion: 56 Resp: 2073

Ion Ratio Lower Upper

56 100

69 168.0 22.6 34.0#

84 154.3 62.7 94.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

1500

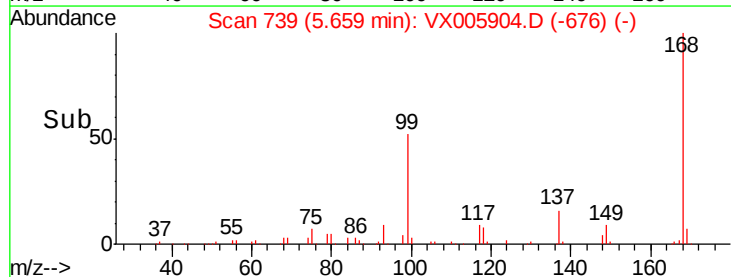
1000

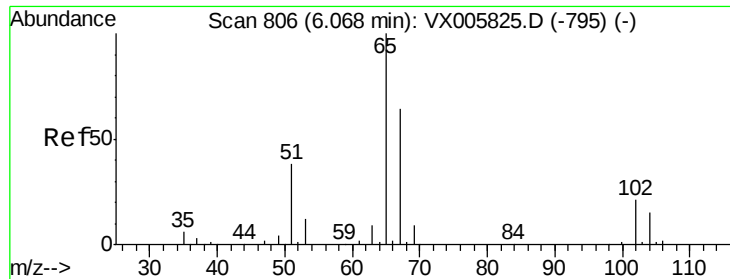
500

0

5.55 5.60 5.65 5.70 5.75

Time-->





#33

1,2-Dichloroethane-d4

Concen: 51.344 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005904.D

Acq: 12 Nov 2018 16:54

Instrument :

MSVOA_X

ClientSampleId :

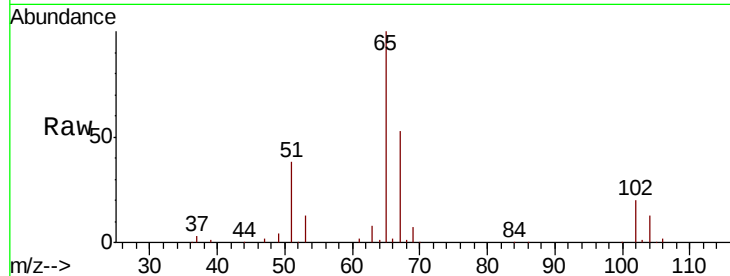
PB114704TB

Tot Ion: 65 Resp: 68721

Ion Ratio Lower Upper

65 100

67 53.4 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX005825.D (-795) (-)

Ion 66.90 (66.60 to 67.60): VX005825.D (-795) (-)

6.07

25000

20000

15000

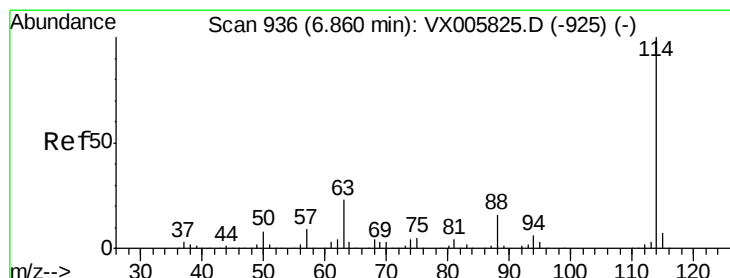
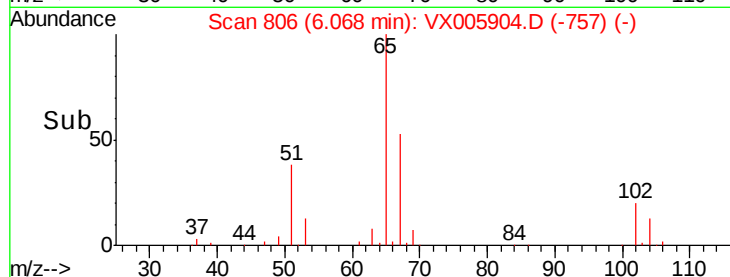
10000

5000

0

6.00 6.10 6.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX005904.D

Acq: 12 Nov 2018 16:54

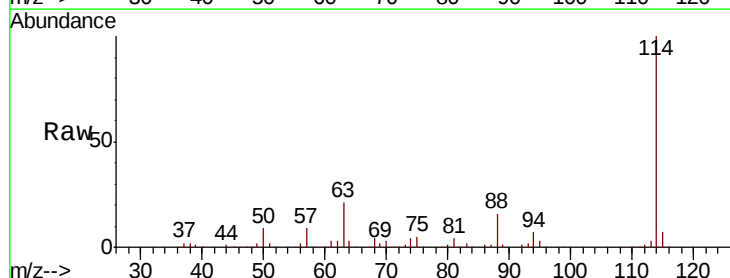
Tgt Ion: 114 Resp: 170290

Ion Ratio Lower Upper

114 100

63 21.3 0.0 42.8

88 15.9 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): VX005825.D (-925) (-)

Ion 63.00 (62.70 to 63.70): VX005825.D (-925) (-)

Ion 87.90 (87.60 to 88.60): VX005825.D (-925) (-)

6.86

80000

60000

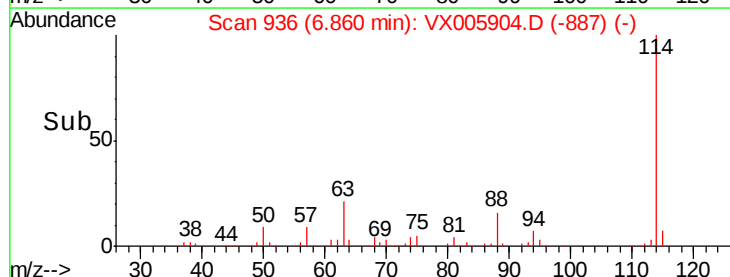
40000

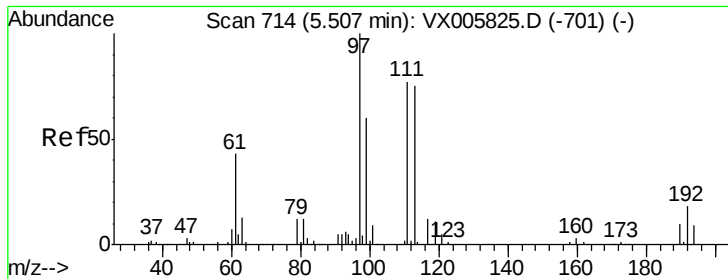
20000

0

6.70 6.80 6.90 7.00 7.10

Time-->

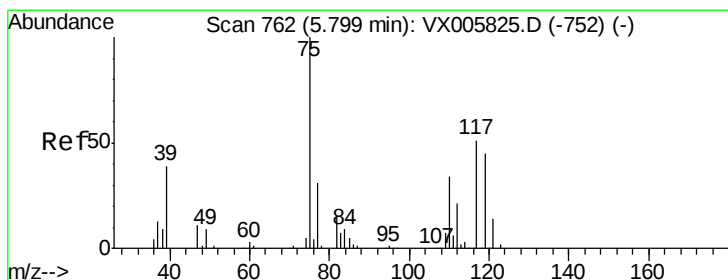
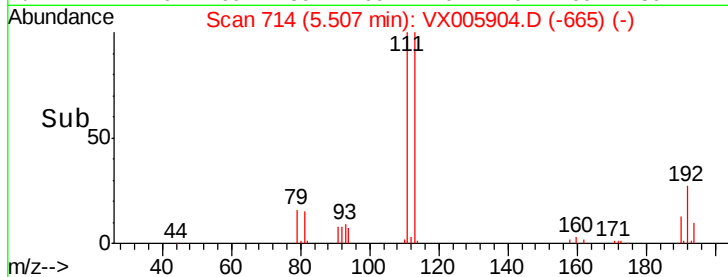
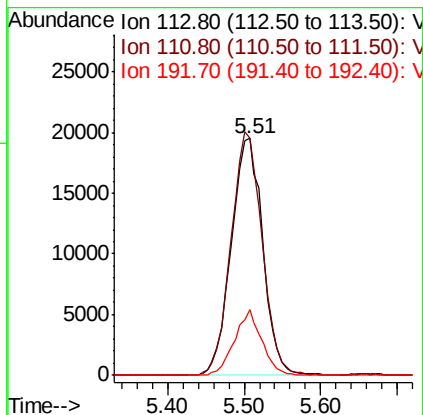
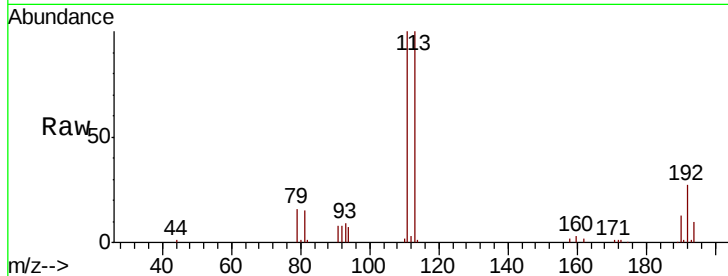




#35
 Dibromofluoromethane
 Concen: 48.045 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. -0.00 min
 Lab File: VX005904.D
 Acq: 12 Nov 2018 16:54

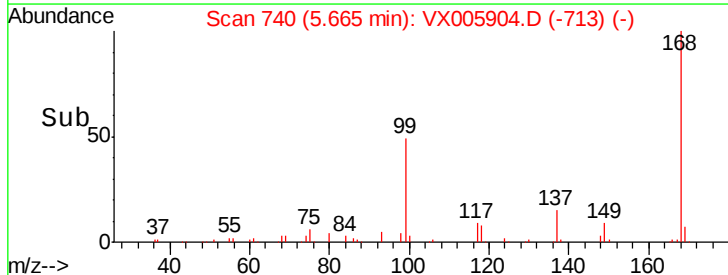
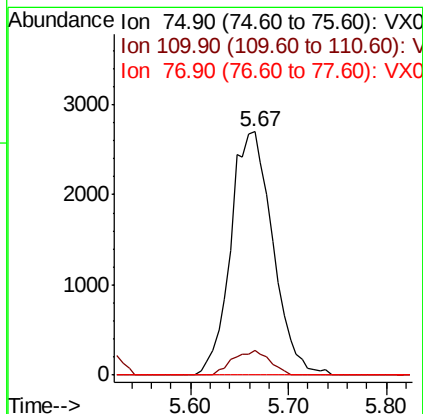
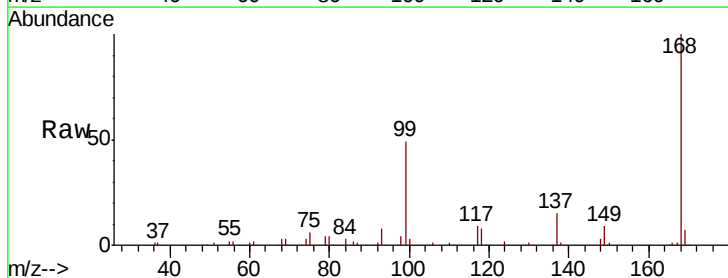
Instrument :
 MSVOA_X
 ClientSampleId :
 PB114704TB

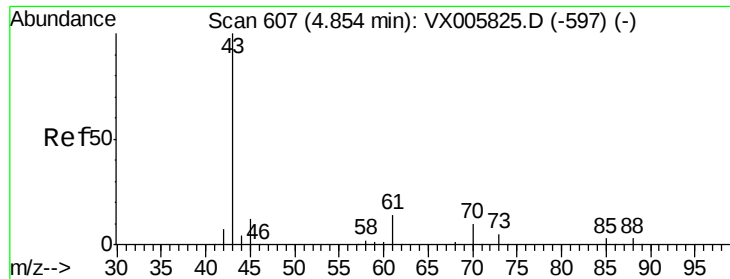
Tot Ion:113 Resp: 55647
 Ion Ratio Lower Upper
 113 100
 111 101.5 82.3 123.5
 192 23.9 17.9 26.9



#36
 1,1-Dichloropropene
 Concen: 4.897 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005904.D
 Acq: 12 Nov 2018 16:54

Tgt Ion: 75 Resp: 8039
 Ion Ratio Lower Upper
 75 100
 110 8.8 17.4 52.2#
 77 0.0 25.8 38.6#





#37

Ethyl Acetate

Concen: 0.319 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.16 min

Lab File: VX005904.D

Acq: 12 Nov 2018 16:54

Instrument :

MSVOA_X

ClientSampleId :

PB114704TB

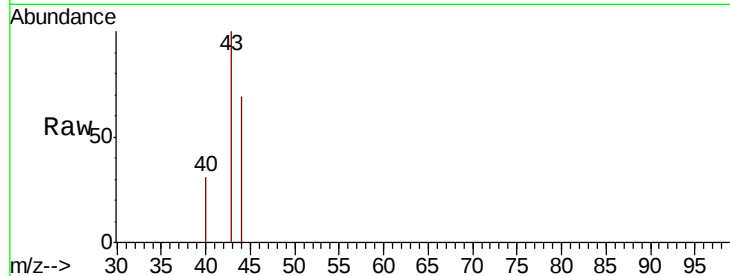
Tot Ion: 43 Resp: 688

Ion Ratio Lower Upper

43 100

61 0.0 10.8 16.2#

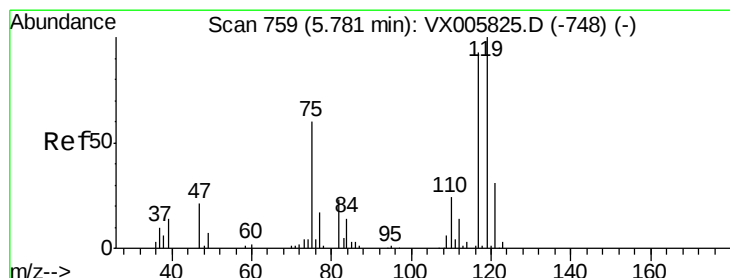
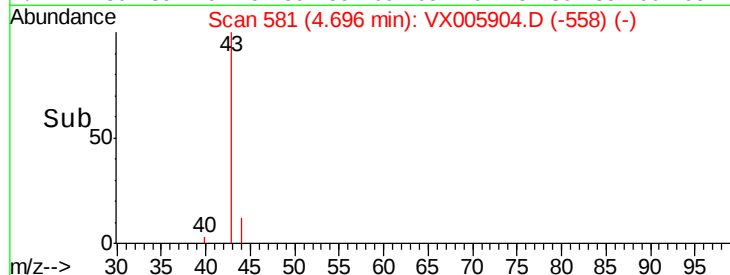
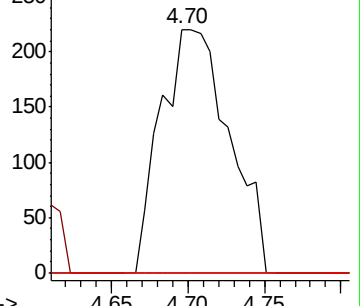
70 0.0 7.8 11.8#



Abundance Ion 43.00 (42.70 to 43.70): VX005825.D (-597) (-)

Ion 60.90 (60.60 to 61.60): VX005825.D (-597) (-)

Ion 70.00 (69.70 to 70.70): VX005825.D (-597) (-)



#38

Carbon Tetrachloride

Concen: 6.371 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005904.D

Acq: 12 Nov 2018 16:54

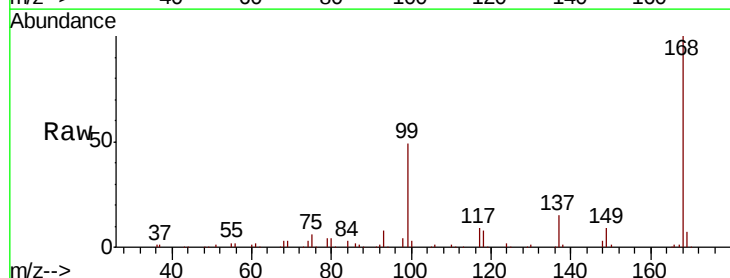
Tgt Ion: 117 Resp: 10470

Ion Ratio Lower Upper

117 100

119 5.5 78.1 117.1#

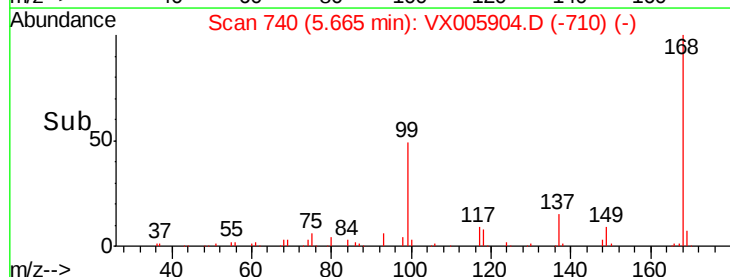
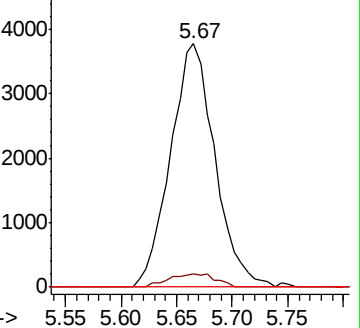
121 0.0 24.6 36.8#

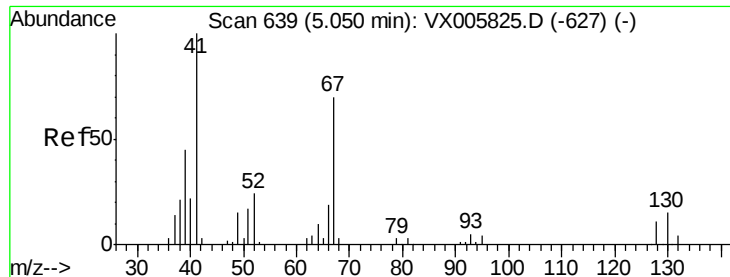


Abundance Ion 116.80 (116.50 to 117.50): VX005825.D (-748) (-)

Ion 118.80 (118.50 to 119.50): VX005825.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX005825.D (-748) (-)

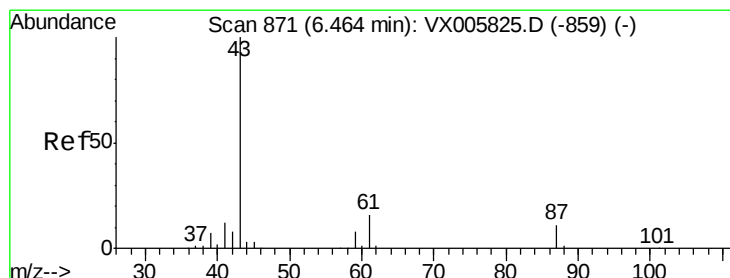
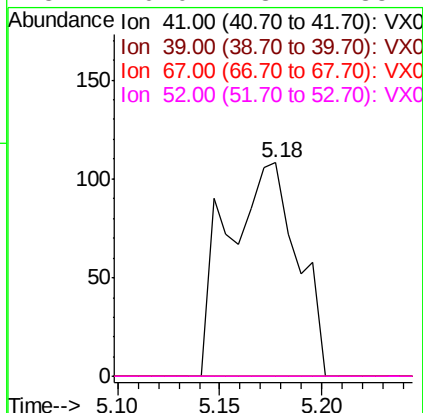
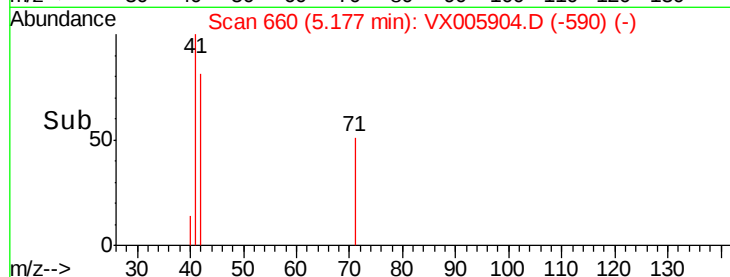
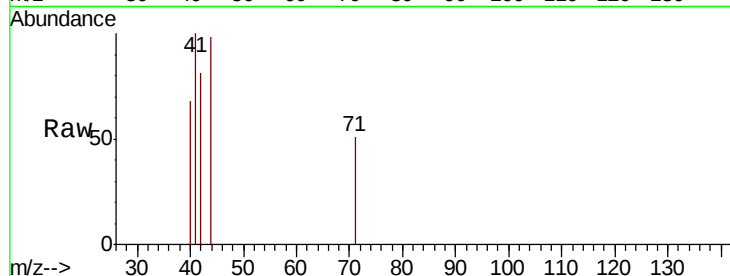




#41
Methacrylonitrile
Concen: 0.223 ug/l
RT: 5.18 min Scan# 660
Delta R.T. 0.13 min
Lab File: VX005904.D
Acq: 12 Nov 2018 16:54

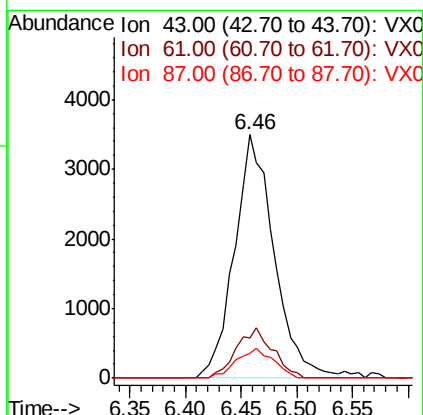
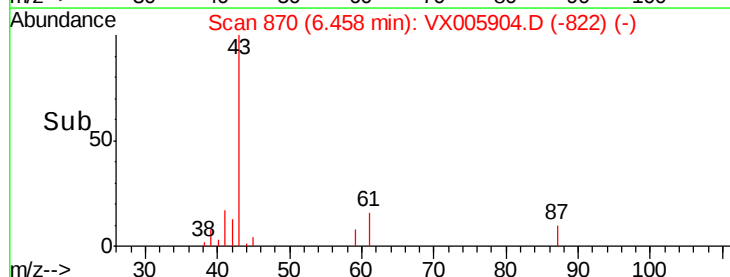
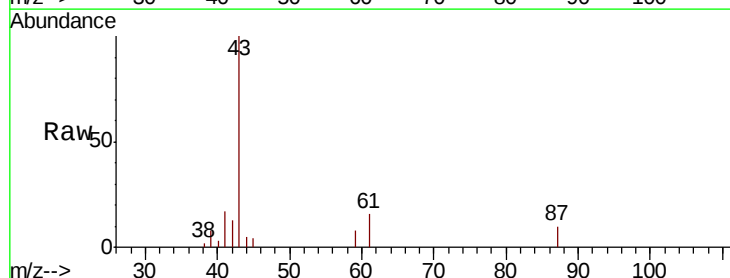
Instrument :
MSVOA_X
ClientSampleId :
PB114704TB

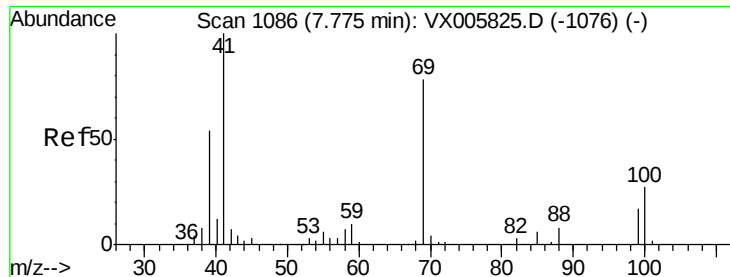
Tot Ion: 41 Resp: 260
Ion Ratio Lower Upper
41 100
39 0.0 42.2 63.2#
67 0.0 53.4 80.0#
52 0.0 23.4 35.2#



#43
Isopropyl Acetate
Concen: 2.763 ug/l
RT: 6.46 min Scan# 870
Delta R.T. -0.01 min
Lab File: VX005904.D
Acq: 12 Nov 2018 16:54

Tgt Ion: 43 Resp: 8644
Ion Ratio Lower Upper
43 100
61 18.9 14.6 22.0
87 11.3 9.6 14.4

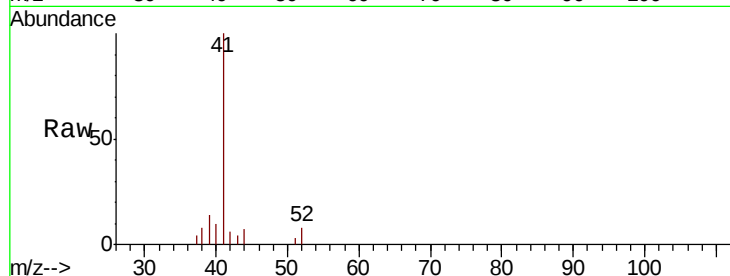




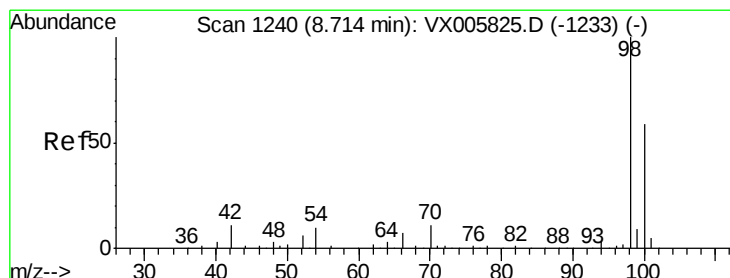
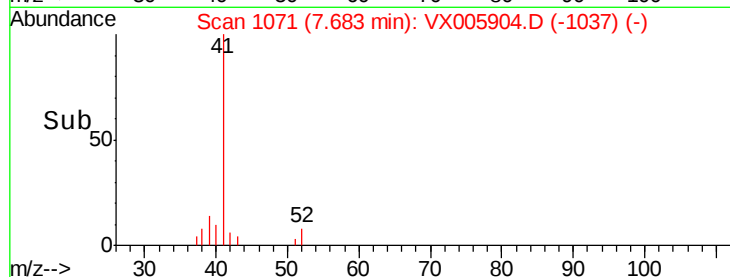
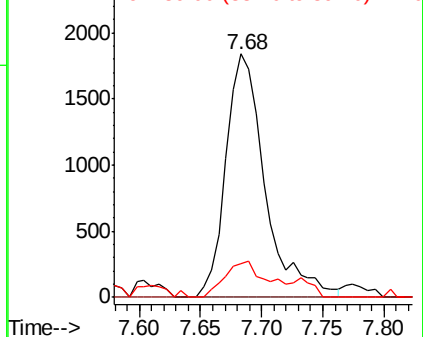
#48
Methvl methacrylate
Concen: 2.923 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX005904.D
Acq: 12 Nov 2018 16:54

Instrument :
MSVOA_X
ClientSampleId :
PB114704TB

Tot Ion: 41 Resp: 4106
Ion Ratio Lower Upper
41 100
69 0.0 63.2 94.8#
39 0.0 42.2 63.2#

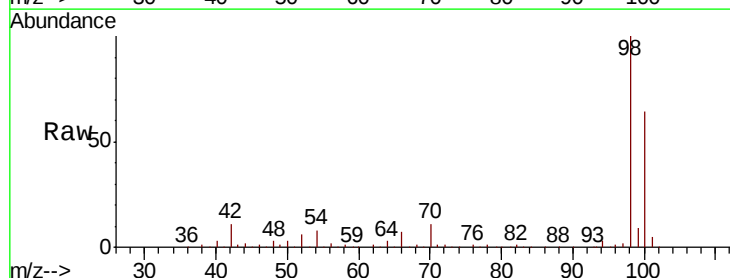


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

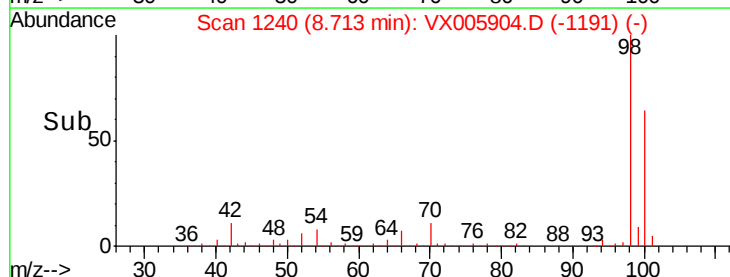
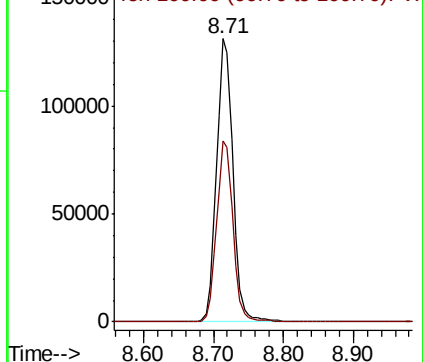


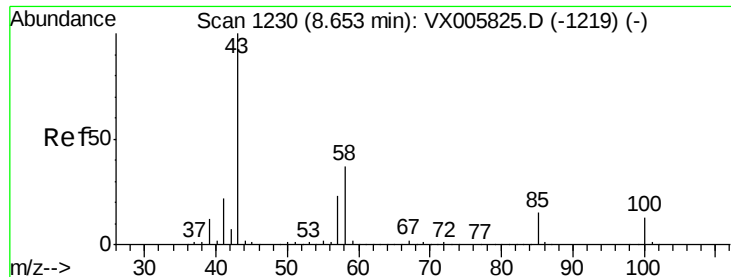
#50
Toluene-d8
Concen: 55.428 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX005904.D
Acq: 12 Nov 2018 16:54

Tgt Ion: 98 Resp: 213432
Ion Ratio Lower Upper
98 100
100 63.7 51.3 76.9



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

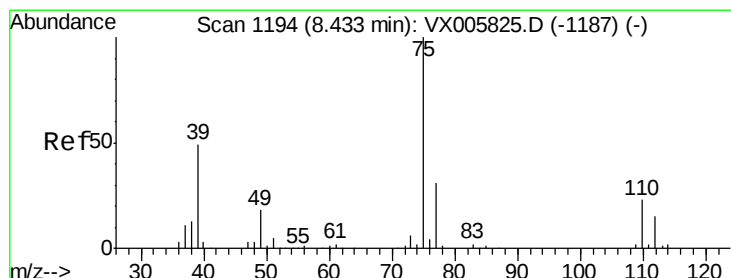
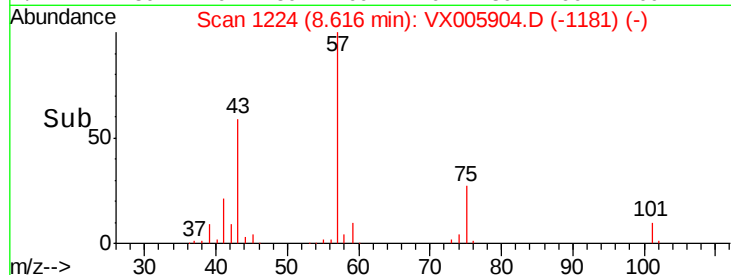
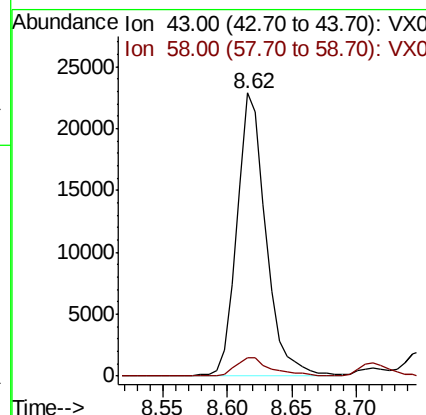
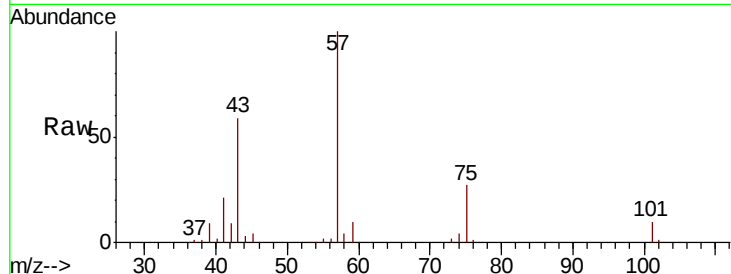




#51
 4-Methyl-2-Pentanone
 Concen: 18.223 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. -0.04 min
 Lab File: VX005904.D
 Acq: 12 Nov 2018 16:54

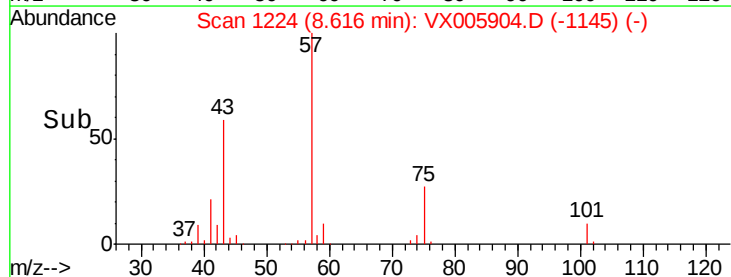
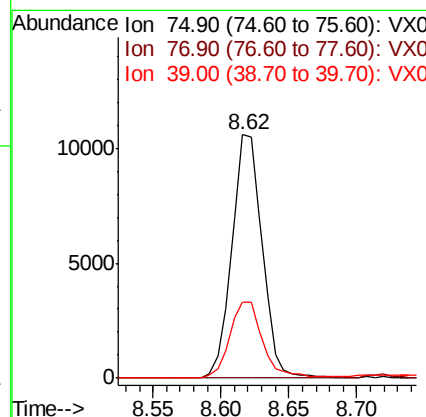
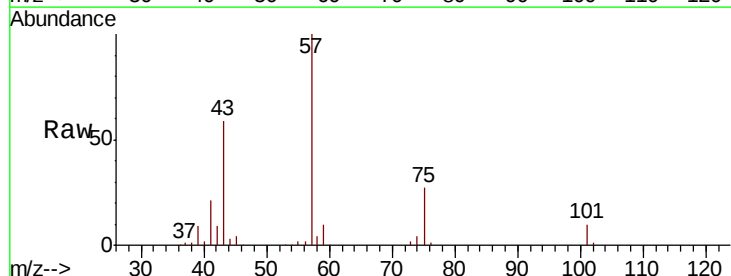
Instrument :
 MSVOA_X
 ClientSampleID :
 PB114704TB

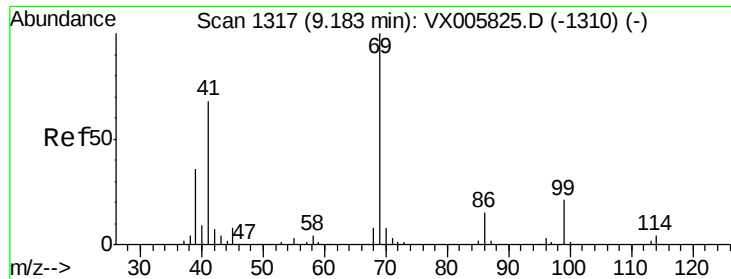
Tot Ion: 43 Resp: 35926
 Ion Ratio Lower Upper
 43 100
 58 8.1 29.7 44.5#



#54
 cis-1,3-Dichloropropene
 Concen: 9.910 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. 0.18 min
 Lab File: VX005904.D
 Acq: 12 Nov 2018 16:54

Tgt Ion: 75 Resp: 16420
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 31.4 38.2 57.2#





#56

Ethyl methacrylate

Concen: 0.243 ug/l

RT: 9.30 min Scan# 1337

Delta R.T. 0.12 min

Lab File: VX005904.D

Acq: 12 Nov 2018 16:54

Instrument :

MSVOA_X

ClientSampleId :

PB114704TB

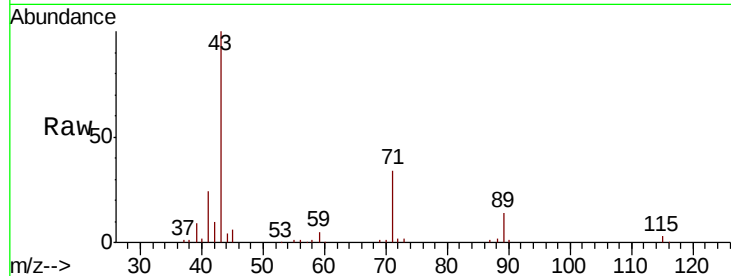
Tot Ion: 69 Resp: 433

Ion Ratio Lower Upper

69 100

41 2490.1 57.0 85.6#

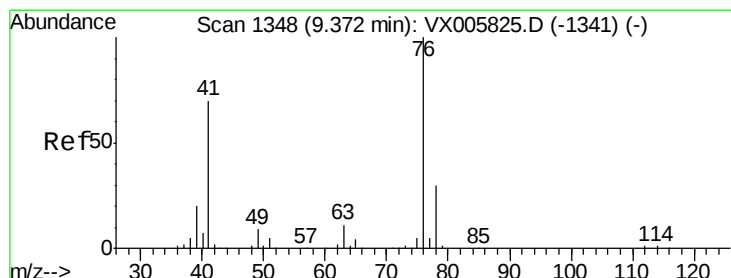
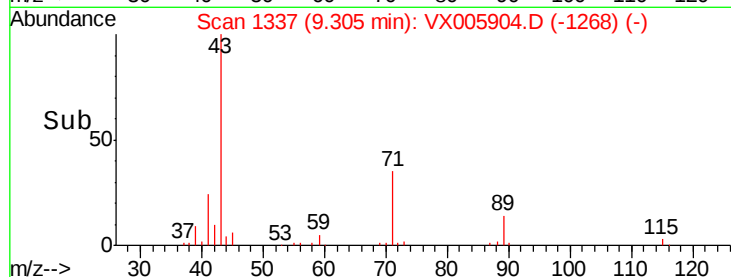
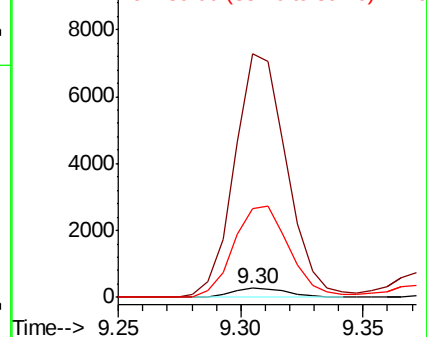
39 990.1 28.3 42.5#



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropane

Concen: 2.083 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX005904.D

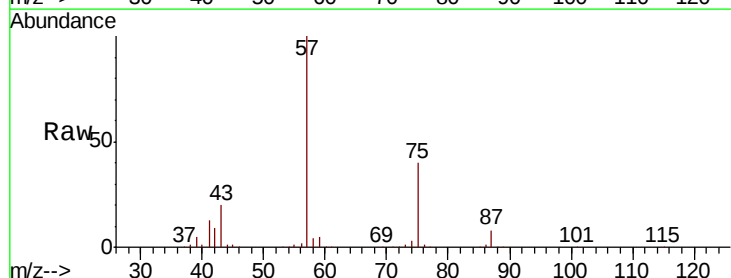
Acq: 12 Nov 2018 16:54

Tgt Ion: 76 Resp: 4173

Ion Ratio Lower Upper

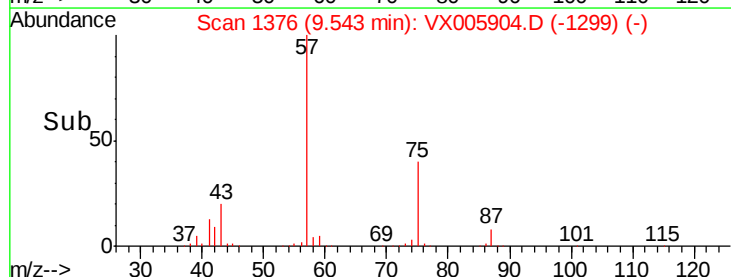
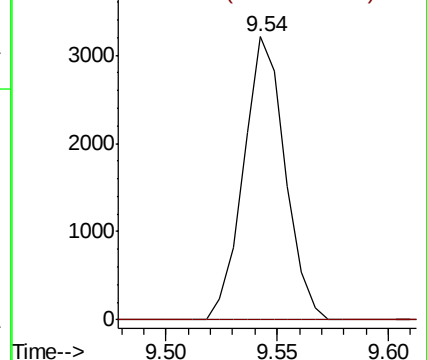
76 100

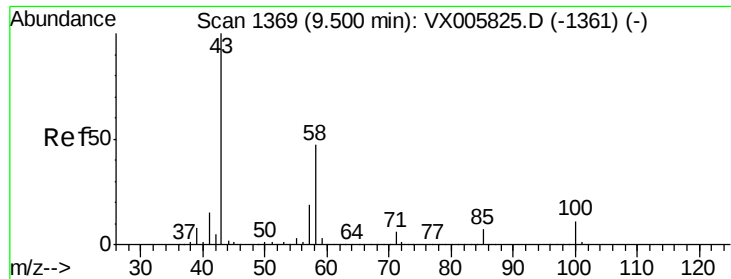
78 0.0 25.3 37.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

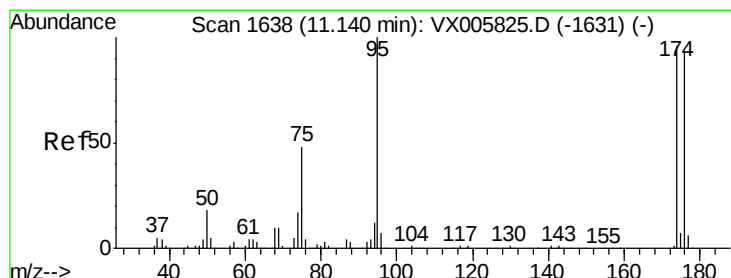
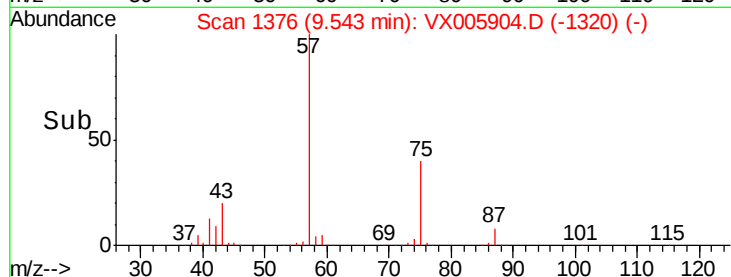
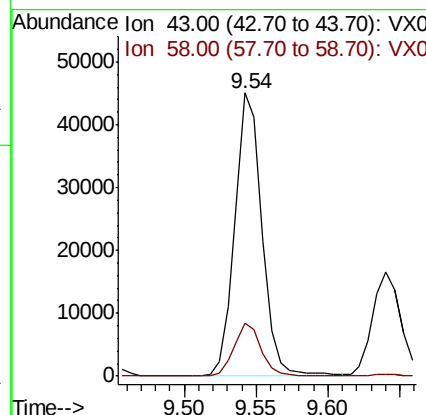
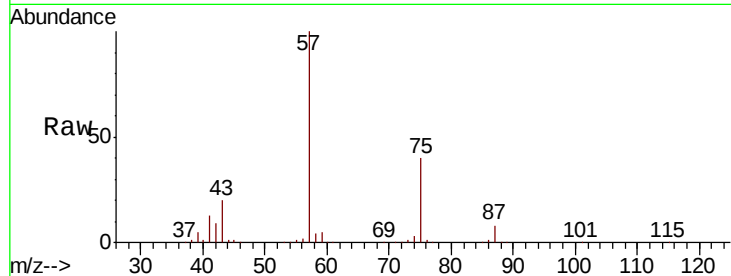




#59
2-Hexanone
Concen: 34.400 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.04 min
Lab File: VX005904.D
Acq: 12 Nov 2018 16:54

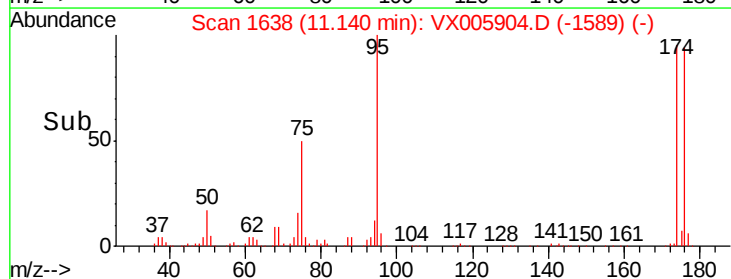
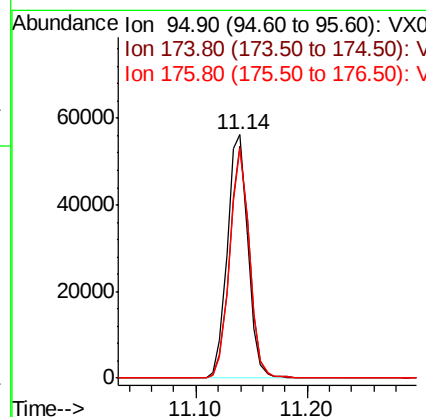
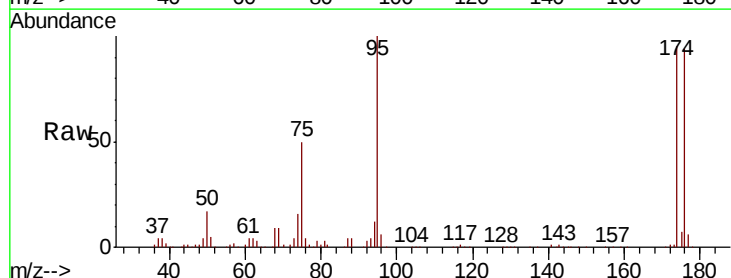
Instrument :
MSVOA_X
ClientSampleId :
PB114704TB

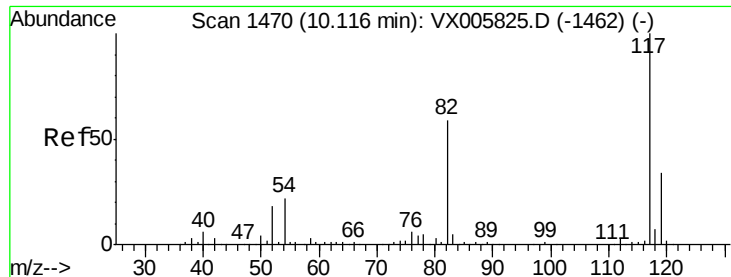
Tot Ion: 43 Resp: 59778
Ion Ratio Lower Upper
43 100
58 18.7 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 52.384 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005904.D
Acq: 12 Nov 2018 16:54

Tgt Ion: 95 Resp: 72523
Ion Ratio Lower Upper
95 100
174 90.6 0.0 184.4
176 89.4 0.0 177.4

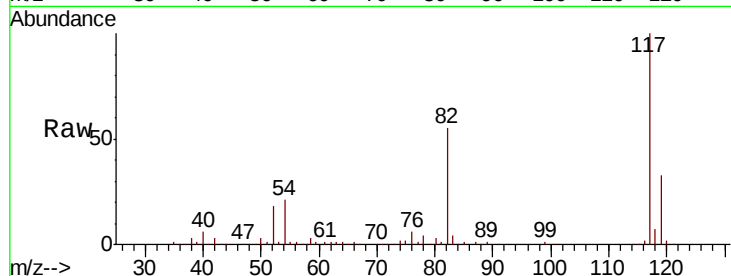




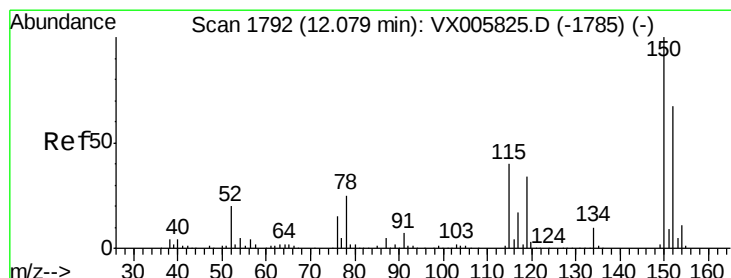
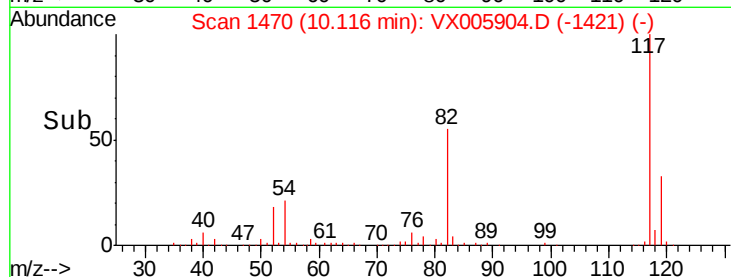
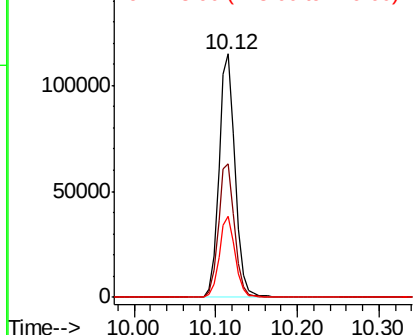
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005904.D
Acq: 12 Nov 2018 16:54

Instrument :
MSVOA_X
ClientSampleId :
PB114704TB

Tot Ion:117 Resp: 159321
Ion Ratio Lower Upper
117 100
82 54.7 44.1 66.1
119 33.0 26.2 39.2

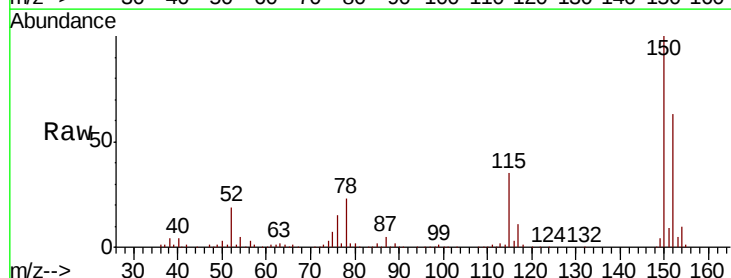


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

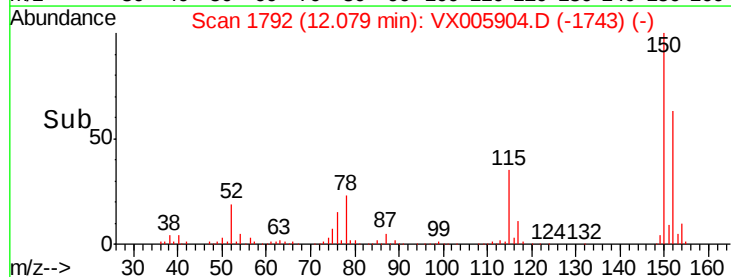
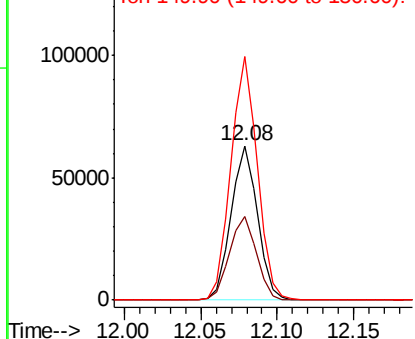


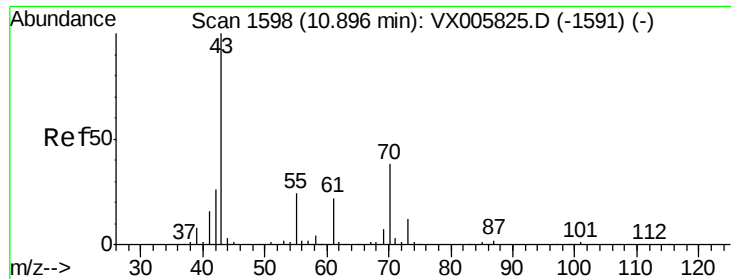
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005904.D
Acq: 12 Nov 2018 16:54

Tgt Ion:152 Resp: 75641
Ion Ratio Lower Upper
152 100
115 55.6 39.4 118.1
150 157.1 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

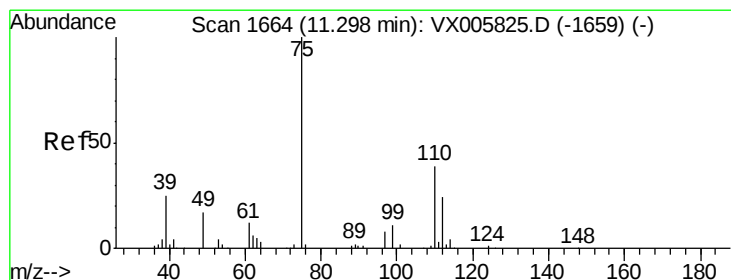
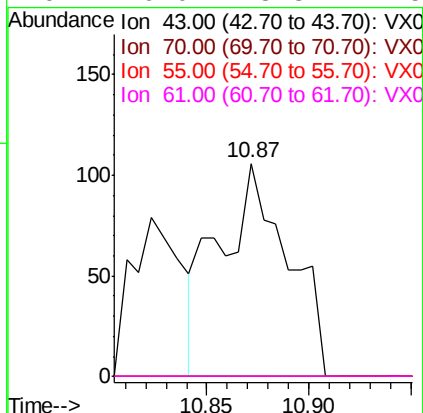
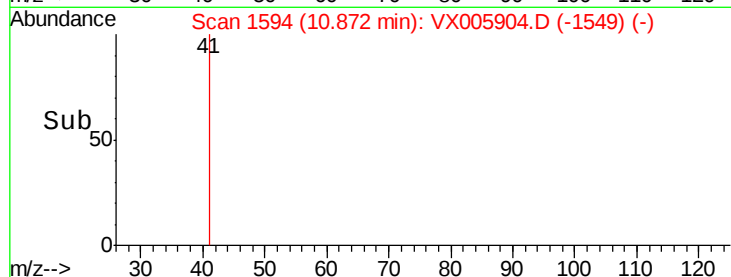
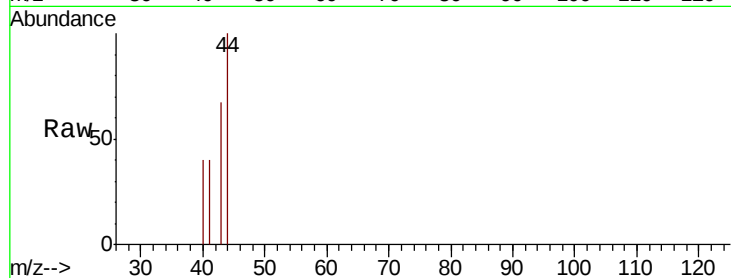




#74
N-amvl acetate
Concen: 1.350 ug/l
RT: 10.87 min Scan# 1594
Delta R.T. -0.02 min
Lab File: VX005904.D
Acq: 12 Nov 2018 16:54

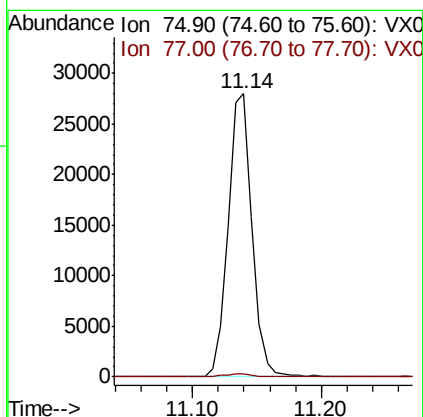
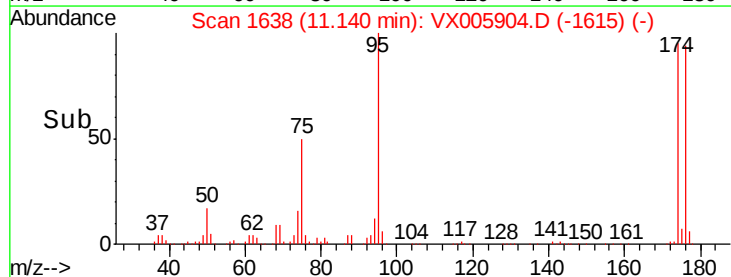
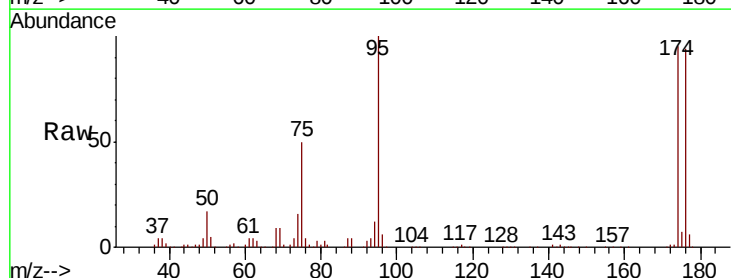
Instrument :
MSVOA_X
ClientSampleId :
PB114704TB

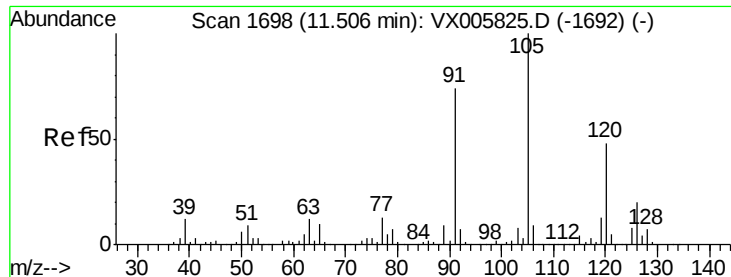
Tot Ion: 43 Resp: 249
Ion Ratio Lower Upper
43 100
70 0.0 31.6 47.4#
55 0.0 19.7 29.5#
61 0.0 18.3 27.5#



#76
1,2,3-Trichloropropane
Concen: 23.630 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.16 min
Lab File: VX005904.D
Acq: 12 Nov 2018 16:54

Tgt Ion: 75 Resp: 36395
Ion Ratio Lower Upper
75 100
77 1.2 20.5 61.6#

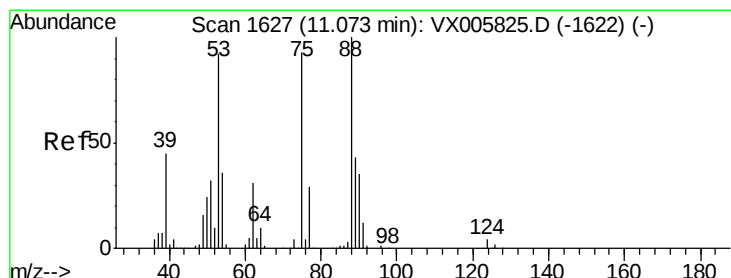
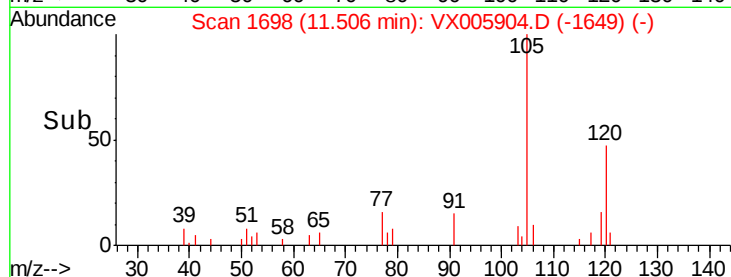
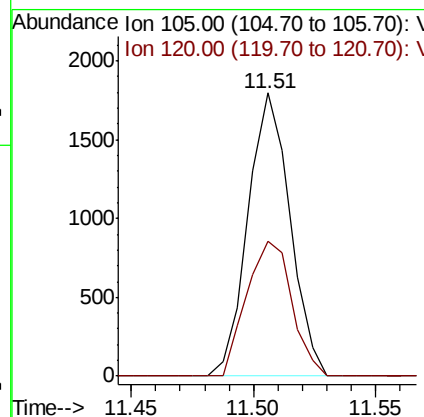
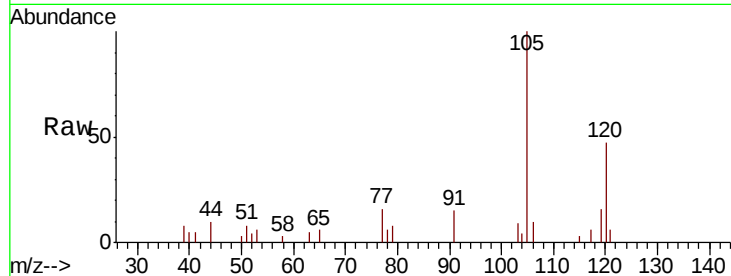




#80
 1,3,5-Trimethylbenzene
 Concen: 0.577 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX005904.D
 Acq: 12 Nov 2018 16:54

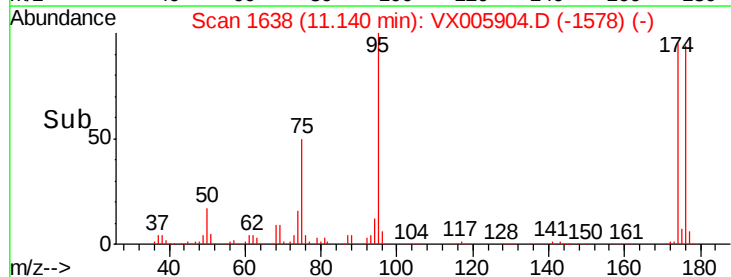
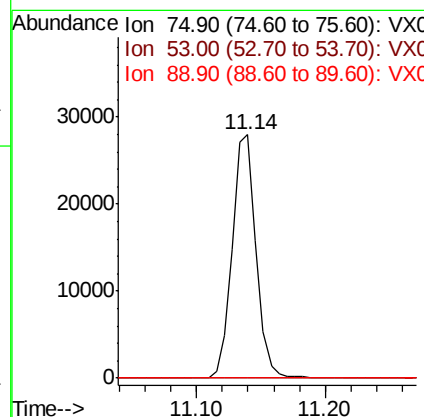
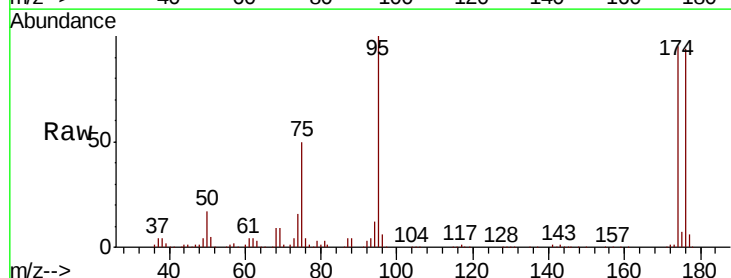
Instrument :
 MSVOA_X
 ClientSampleId :
 PB114704TB

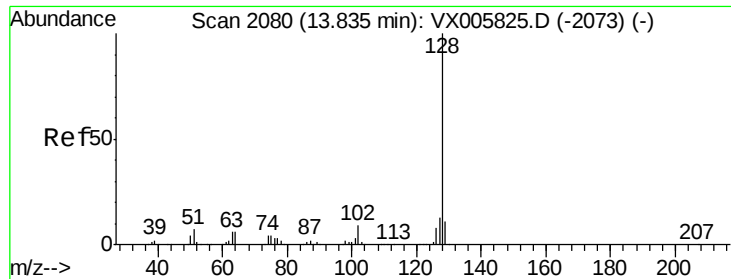
Tot Ion:105 Resp: 2144
 Ion Ratio Lower Upper
 105 100
 120 51.1 24.1 72.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 75.312 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.07 min
 Lab File: VX005904.D
 Acq: 12 Nov 2018 16:54

Tgt Ion: 75 Resp: 36395
 Ion Ratio Lower Upper
 75 100
 53 0.0 80.2 120.2#
 89 0.0 39.8 59.8#





#95

Naphthalene

Concen: 1.211 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX005904.D

Acq: 12 Nov 2018 16:54

Instrument :

MSVOA_X

ClientSampleId :

PB114704TB

Tot Ion:128 Resp: 189

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.7 13.1#

