

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100418\
 Data File : VX005054.D
 Acq On : 05 Oct 2018 08:04
 Operator : JC/MD
 Sample : PB113487ZHE#04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 92 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB113487ZHE#04

Quant Time: Oct 05 08:58:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	204965	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	341274	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	332102	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	177062	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	168834	57.66	ug/l	0.00
Spiked Amount			Recovery	=	115.32%	
35) Dibromofluoromethane	5.51	113	142614	49.31	ug/l	0.00
Spiked Amount			Recovery	=	98.62%	
50) Toluene-d8	8.71	98	485261	50.47	ug/l	0.00
Spiked Amount			Recovery	=	100.94%	
62) 4-Bromofluorobenzene	11.14	95	170471	49.21	ug/l	0.00
Spiked Amount			Recovery	=	98.42%	

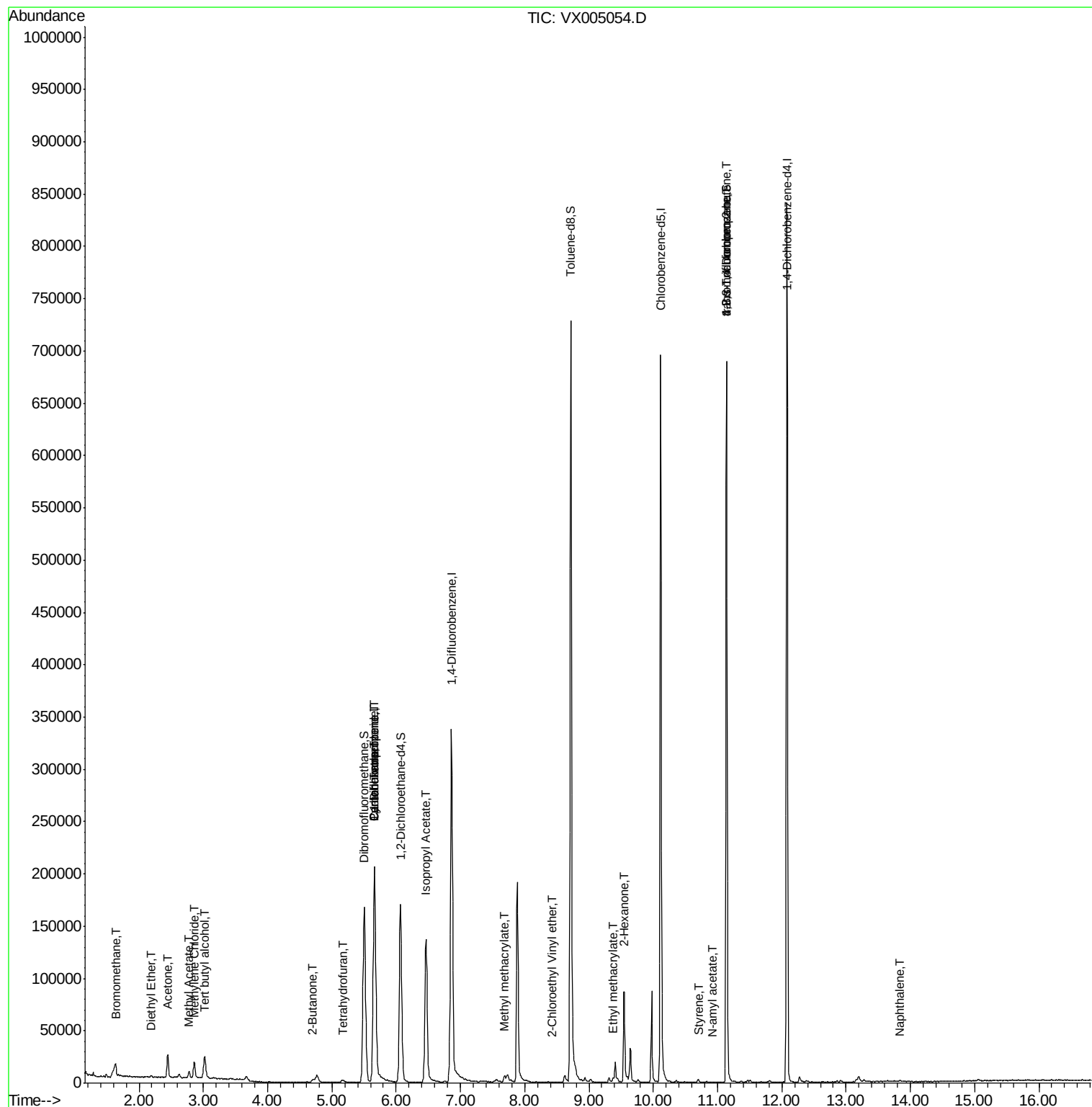
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	381	0.202	ug/l	86
6) Chloroethane	1.75	64	2228	Below Cal	#	73
8) Diethyl Ether	2.18	74	684	0.400	ug/l	88
11) Tert butyl alcohol	3.01	59	13720	16.759	ug/l #	74
16) Acetone	2.45	43	23791	13.918	ug/l	94
18) Methyl Acetate	2.78	43	7313	1.689	ug/l	95
20) Methylene Chloride	2.85	84	6845	1.948	ug/l	94
25) 2-Butanone	4.70	43	5203	2.065	ug/l	98
29) Tetrahydrofuran	5.17	42	2304	1.471	ug/l #	56
31) Cyclohexane	5.67	56	3922	1.053	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	15256	3.866	ug/l #	46
38) Carbon Tetrachloride	5.66	117	19652	4.737	ug/l #	17
43) Isopropyl Acetate	6.46	43	185422	24.525	ug/l	96
48) Methyl methacrylate	7.69	41	6717	1.957	ug/l #	28
56) Ethyl methacrylate	9.37	69	84	2.878	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.41	63	22	14.250	ug/l #	49
59) 2-Hexanone	9.55	43	10225	2.578	ug/l #	56
70) Styrene	10.71	104	109	2.152	ug/l #	65
74) N-amyl acetate	10.91	43	99	1.763	ug/l #	47
76) 1,2,3-Trichloropropane	11.14	75	84920	21.398	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	864	Below Cal		86
81) trans-1,4-Dichloro-2-buten	11.14	75	84920	58.028	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	755	Below Cal		82
95) Naphthalene	13.83	128	697	0.766	ug/l #	86

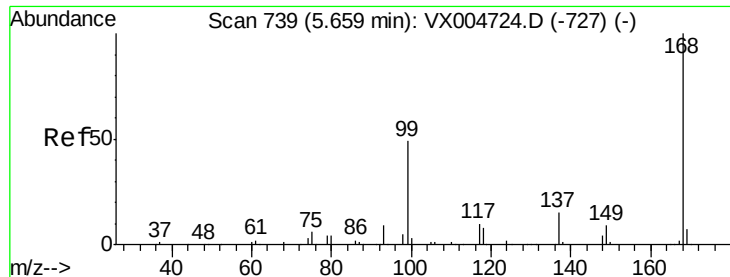
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 05 08:58:19 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 03 04:00:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.00 min

Lab File: VX005054.D

Acq: 05 Oct 2018 08:04

Instrument :

MSVOA_X

ClientSampleId :

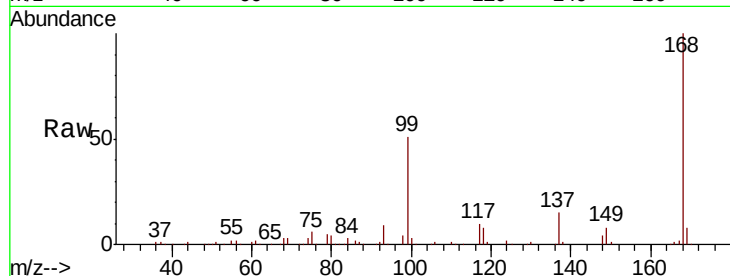
PB113487ZHE#04

Tot Ion:168 Resp: 204965

Ion Ratio Lower Upper

168 100

99 50.5 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

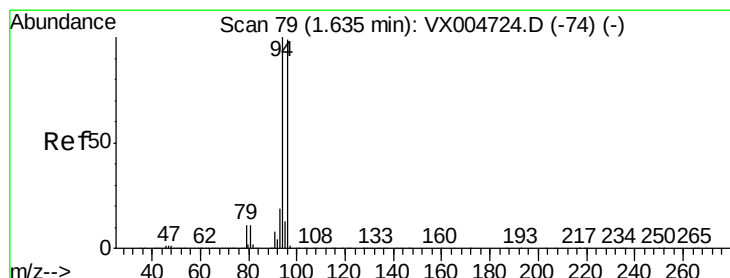
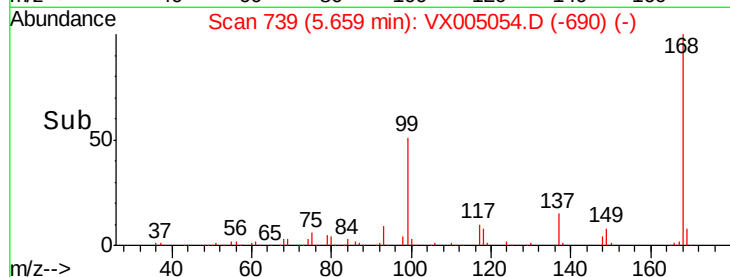
40000

20000

0

5.60 5.70

Time-->



#5

Bromomethane

Concen: 0.202 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005054.D

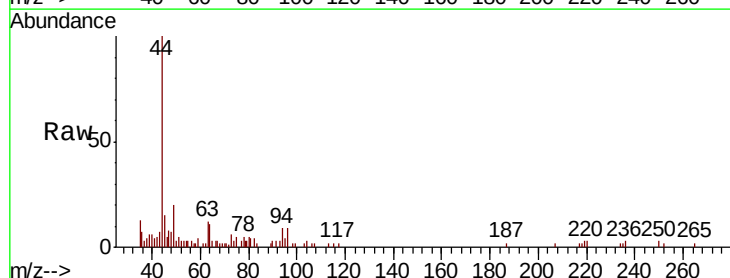
Acq: 05 Oct 2018 08:04

Tgt Ion: 94 Resp: 381

Ion Ratio Lower Upper

94 100

96 112.9 79.5 119.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

300

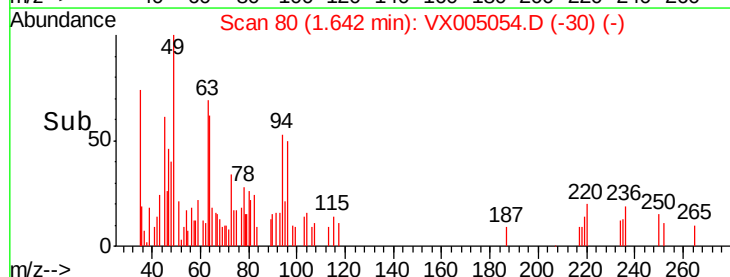
200

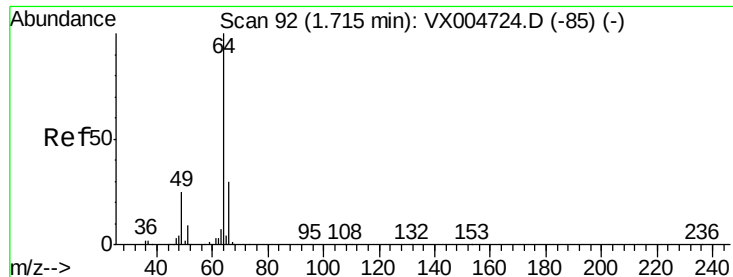
100

0

1.60 1.65 1.70

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.75 min Scan# 98

Delta R.T. 0.04 min

Lab File: VX005054.D

Acq: 05 Oct 2018 08:04

Instrument :

MSVOA_X

ClientSampleId :

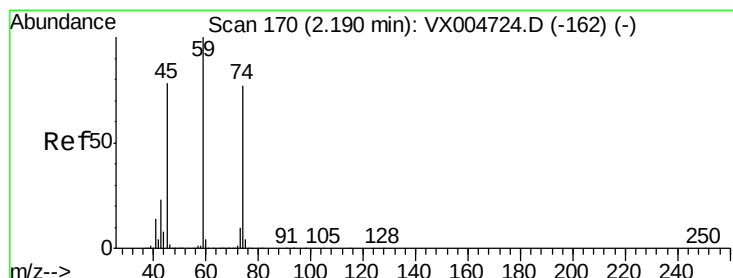
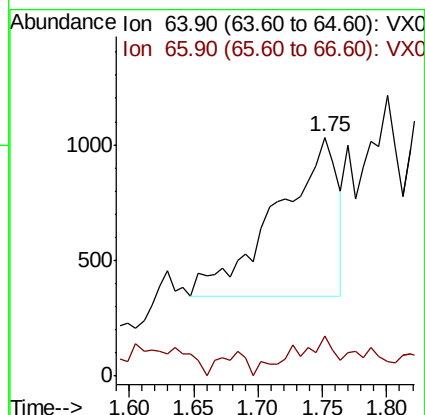
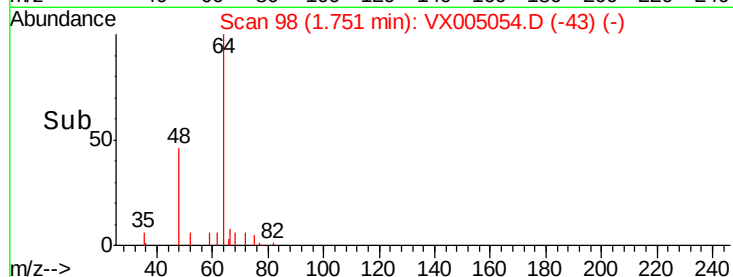
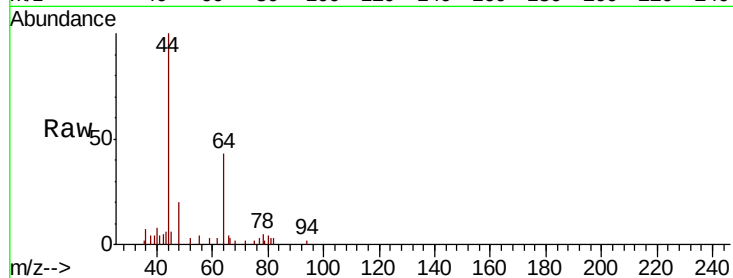
PB113487ZHE#04

Tot Ion: 64 Resp: 2228

Ion Ratio Lower Upper

64 100

66 14.9 23.8 35.6#



#8

Diethyl Ether

Concen: 0.400 ug/l

RT: 2.18 min Scan# 169

Delta R.T. -0.01 min

Lab File: VX005054.D

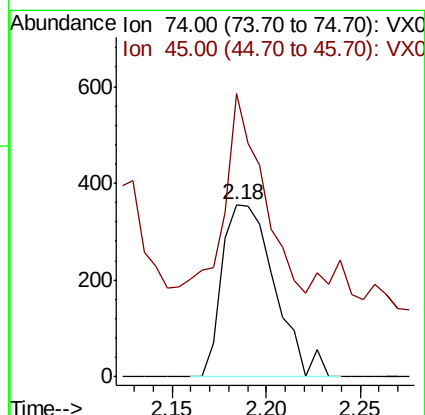
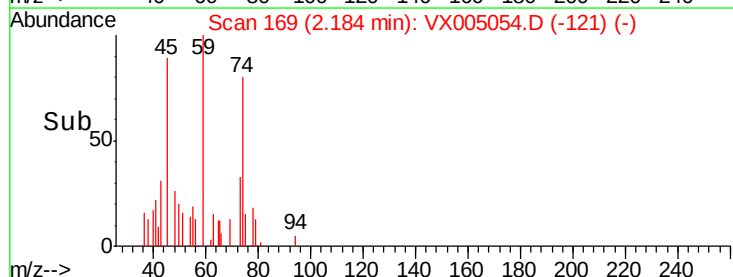
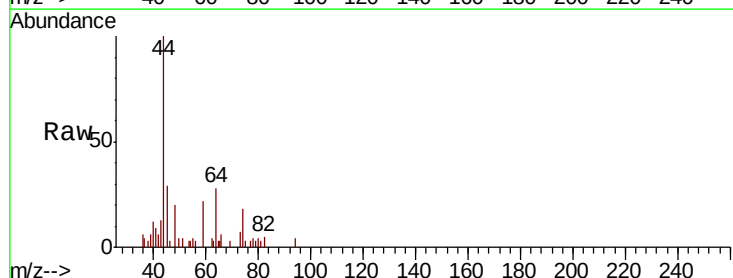
Acq: 05 Oct 2018 08:04

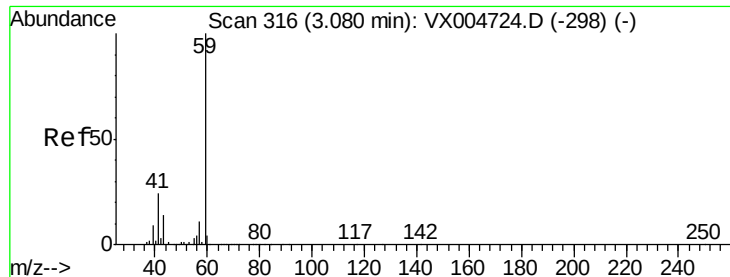
Tgt Ion: 74 Resp: 684

Ion Ratio Lower Upper

74 100

45 92.3 52.5 157.6



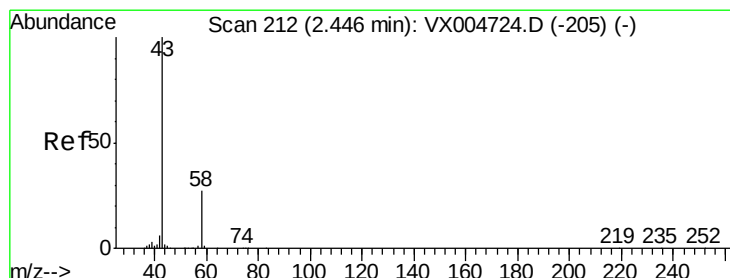
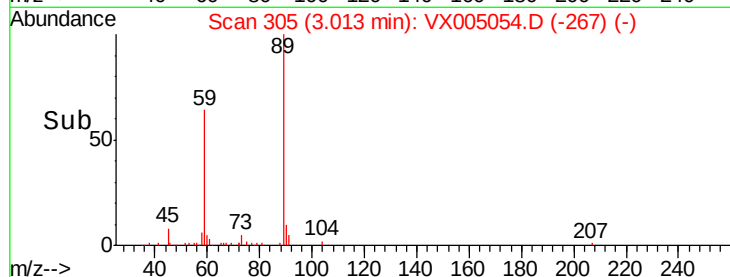
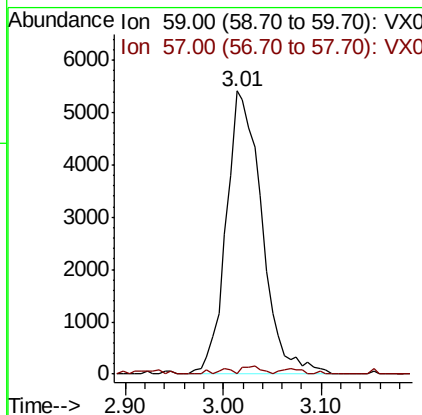
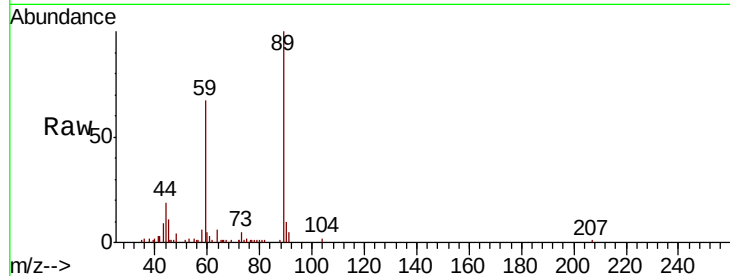


#11

Tert butyl alcohol
 Concen: 16.759 ug/l
 RT: 3.01 min Scan# 305
 Delta R.T. -0.07 min
 Lab File: VX005054.D
 Acq: 05 Oct 2018 08:04

Instrument :
 MSVOA_X
 ClientSampleId :
 PB113487ZHE#04

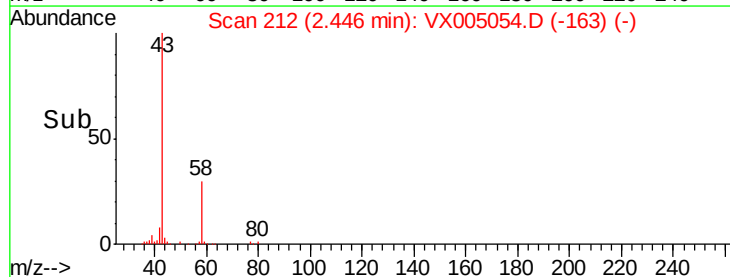
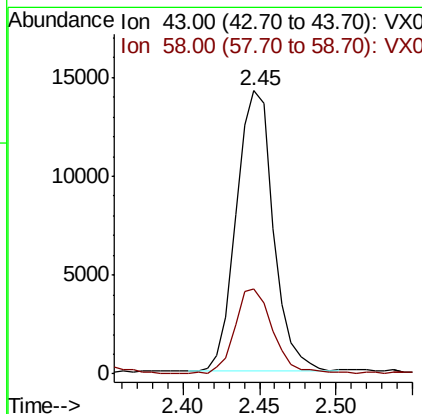
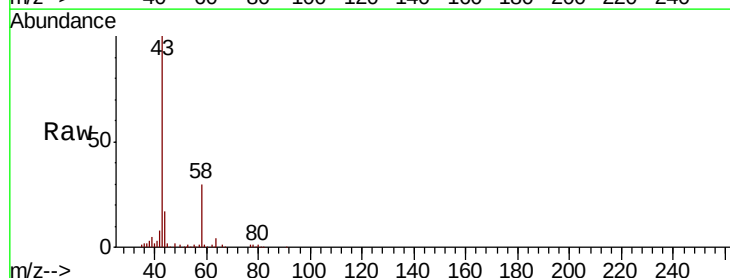
Tot Ion: 59 Resp: 13720
 Ion Ratio Lower Upper
 59 100
 57 0.9 8.6 12.8#

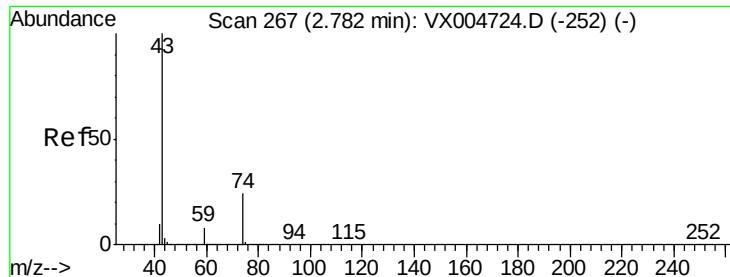


#16

Acetone
 Concen: 13.918 ug/l
 RT: 2.45 min Scan# 212
 Delta R.T. 0.00 min
 Lab File: VX005054.D
 Acq: 05 Oct 2018 08:04

Tgt Ion: 43 Resp: 23791
 Ion Ratio Lower Upper
 43 100
 58 30.3 21.8 32.6

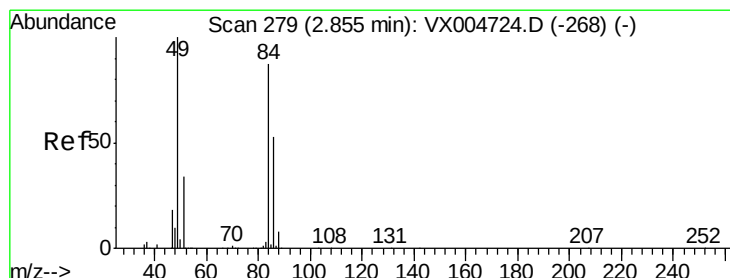
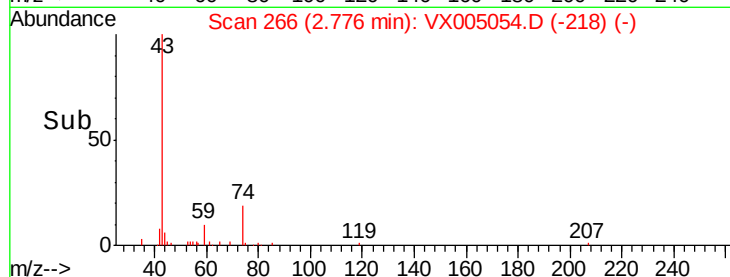
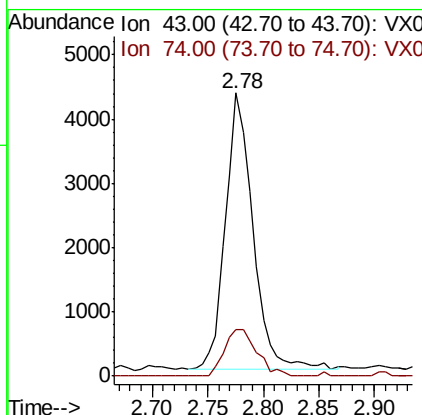
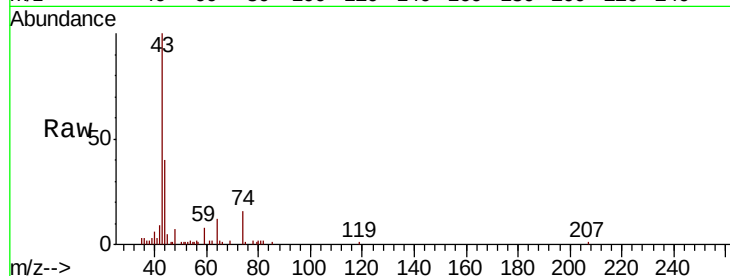




#18
Methyl Acetate
Concen: 1.689 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX005054.D
Acq: 05 Oct 2018 08:04

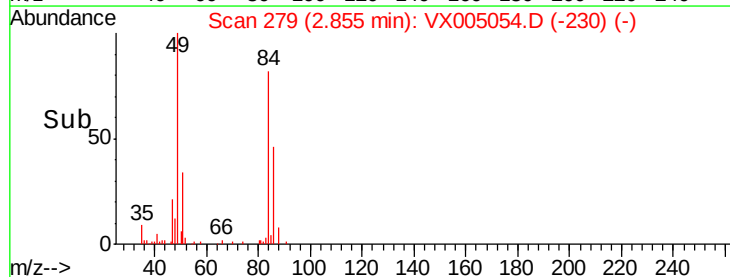
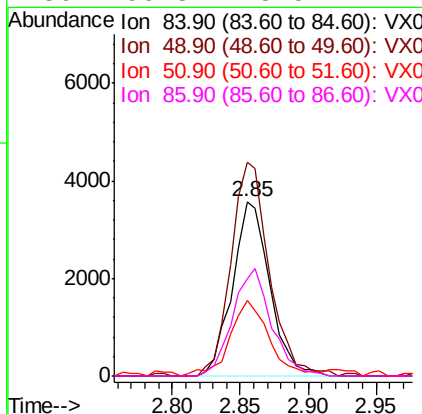
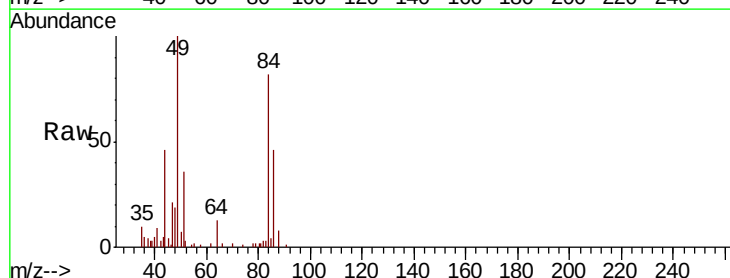
Instrument :
MSVOA_X
ClientSampleId :
PB113487ZHE#04

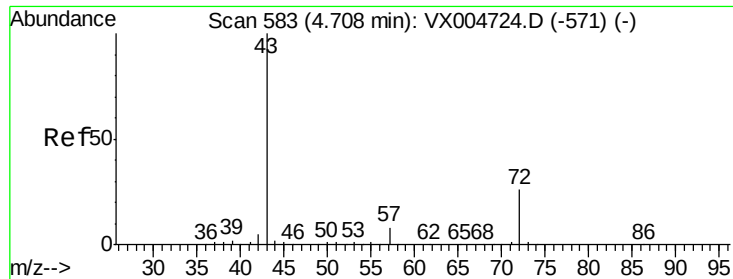
Tot Ion: 43 Resp: 7313
Ion Ratio Lower Upper
43 100
74 20.0 17.8 26.8



#20
Methylene Chloride
Concen: 1.948 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX005054.D
Acq: 05 Oct 2018 08:04

Tgt Ion: 84 Resp: 6845
Ion Ratio Lower Upper
84 100
49 122.5 92.3 138.5
51 42.1 31.8 47.6
86 55.8 48.5 72.7





#25

2-Butanone

Concen: 2.065 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.01 min

Lab File: VX005054.D

Acq: 05 Oct 2018 08:04

Instrument :

MSVOA_X

ClientSampleId :

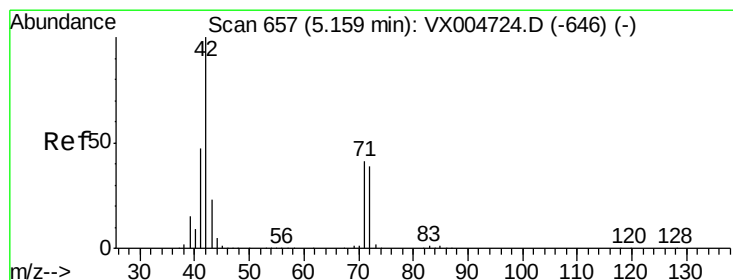
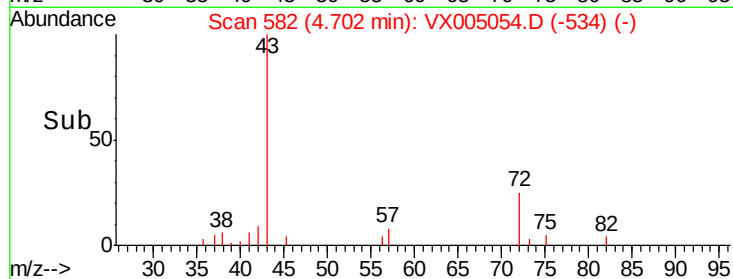
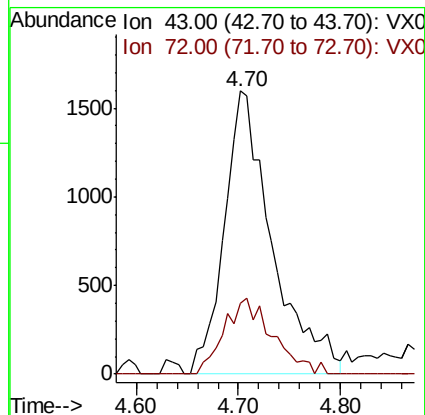
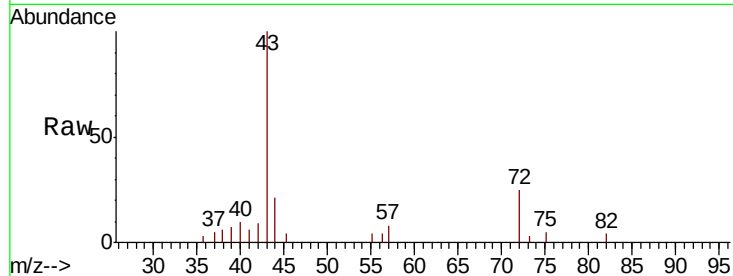
PB113487ZHE#04

Tot Ion: 43 Resp: 5203

Ion Ratio Lower Upper

43 100

72 24.9 20.8 31.2



#29

Tetrahydrofuran

Concen: 1.471 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX005054.D

Acq: 05 Oct 2018 08:04

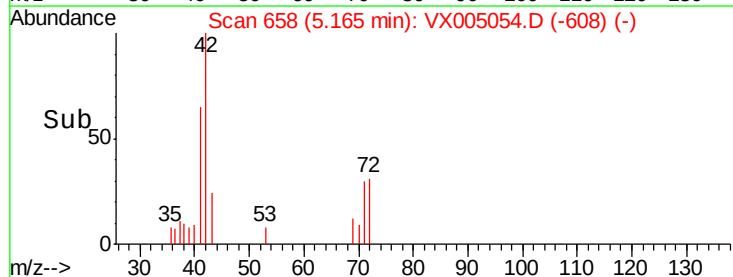
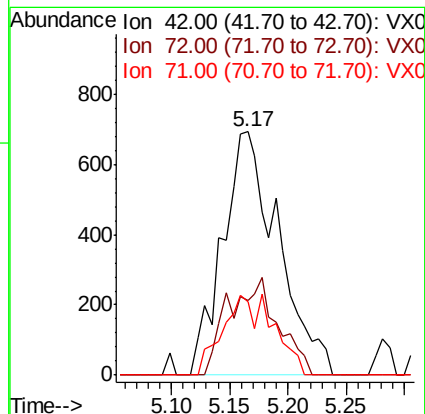
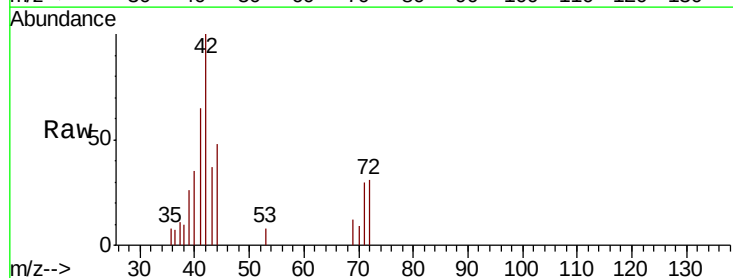
Tgt Ion: 42 Resp: 2304

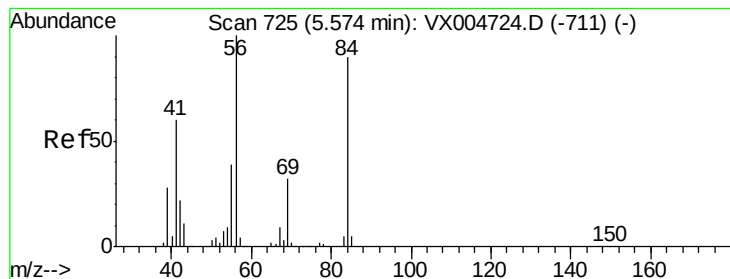
Ion Ratio Lower Upper

42 100

72 9.7 33.7 50.5#

71 18.3 32.2 48.4#





#31

Cyclohexane

Concen: 1.053 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX005054.D

Acq: 05 Oct 2018 08:04

Instrument :

MSVOA_X

ClientSampleId :

PB113487ZHE#04

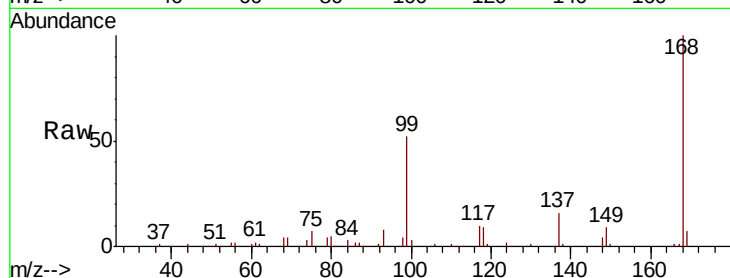
Tot Ion: 56 Resp: 3922

Ion Ratio Lower Upper

56 100

69 194.2 25.9 38.9#

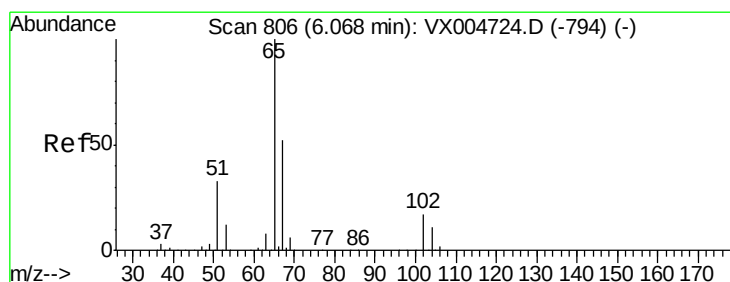
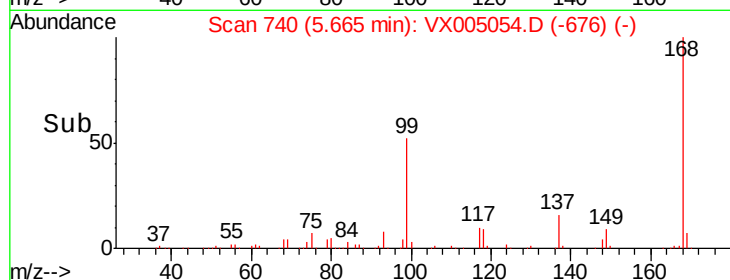
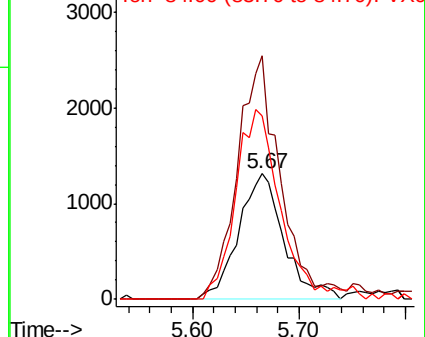
84 146.4 71.9 107.9#



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



#33

1,2-Dichloroethane-d4

Concen: 57.663 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.01 min

Lab File: VX005054.D

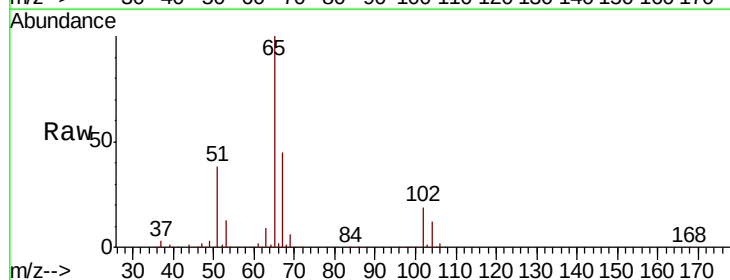
Acq: 05 Oct 2018 08:04

Tgt Ion: 65 Resp: 168834

Ion Ratio Lower Upper

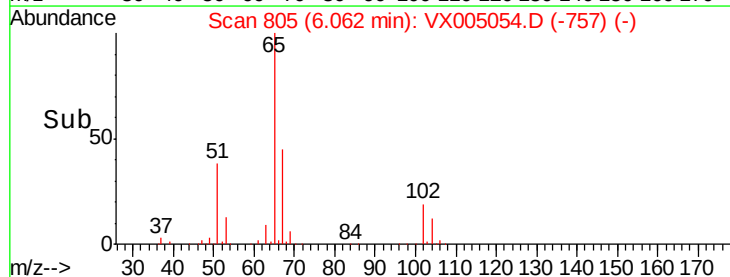
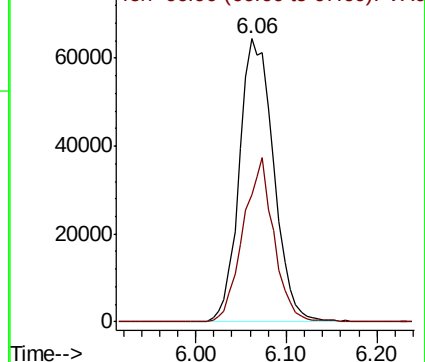
65 100

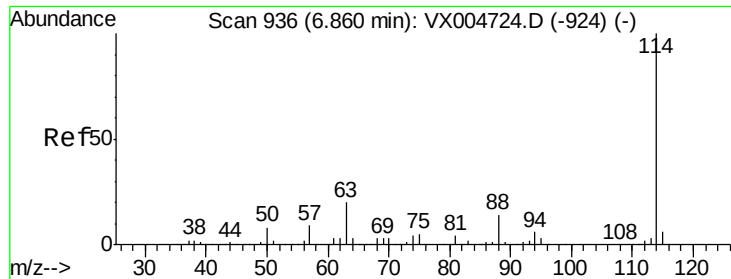
67 52.3 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

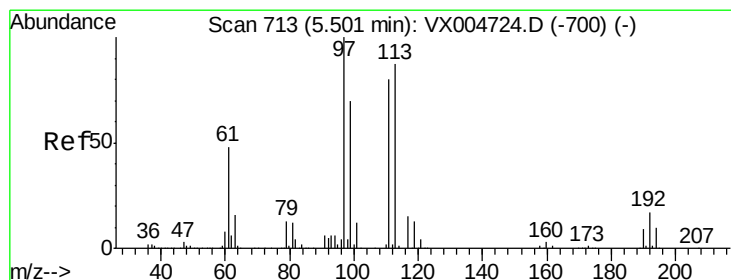
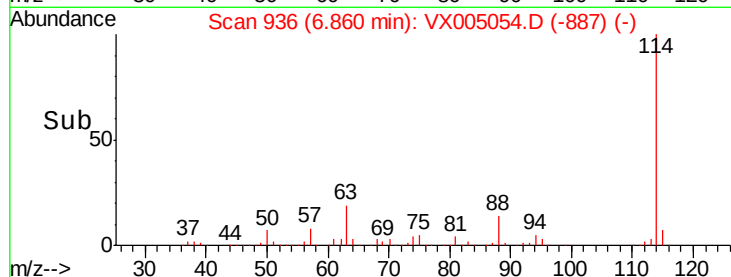
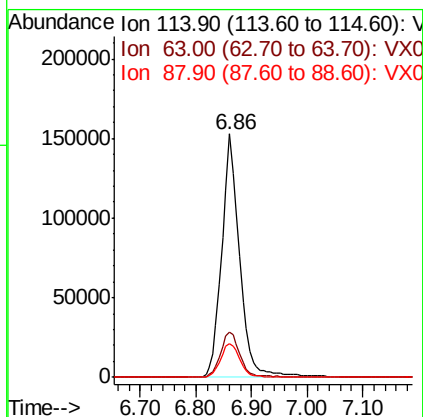
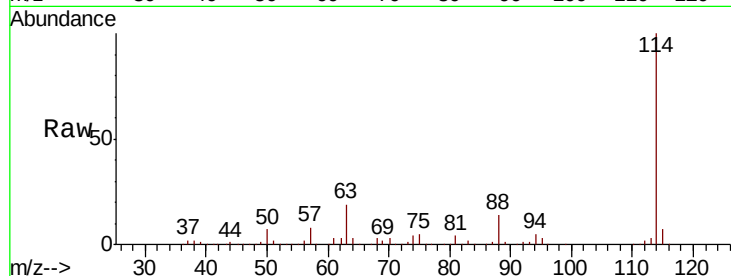




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX005054.D
 Acq: 05 Oct 2018 08:04

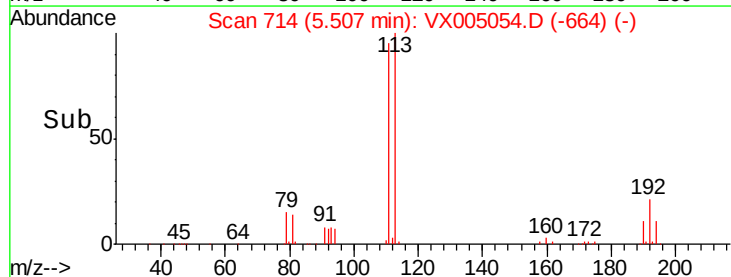
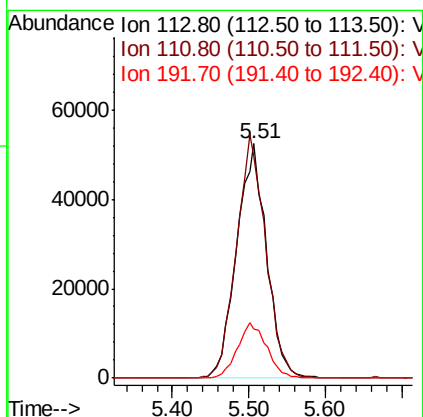
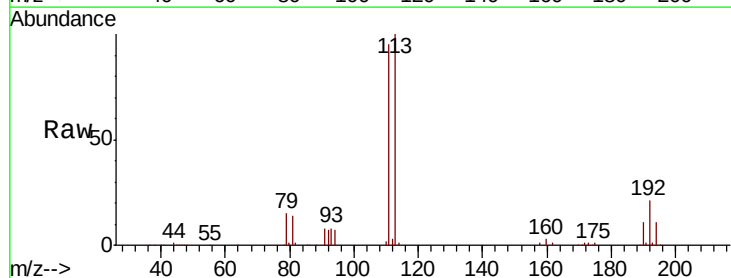
Instrument :
 MSVOA_X
 ClientSampleId :
 PB113487ZHE#04

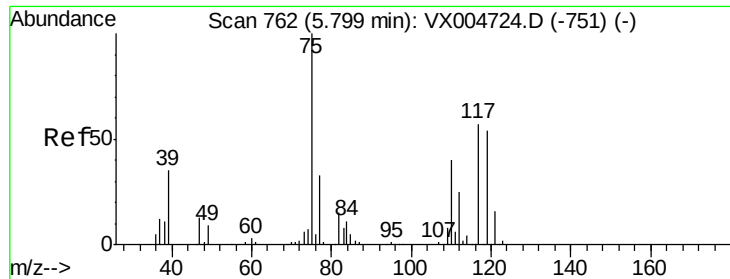
Tot Ion:114 Resp: 341274
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 39.8
 88 13.7 0.0 27.0



#35
 Dibromofluoromethane
 Concen: 49.307 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX005054.D
 Acq: 05 Oct 2018 08:04

Tgt Ion:113 Resp: 142614
 Ion Ratio Lower Upper
 113 100
 111 101.4 77.0 115.4
 192 23.1 17.0 25.6

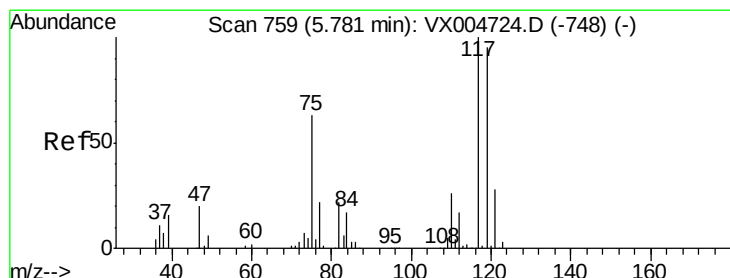
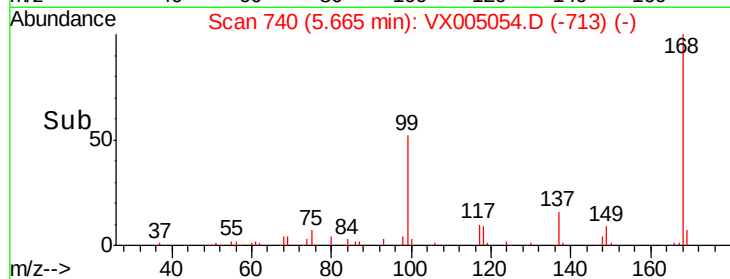
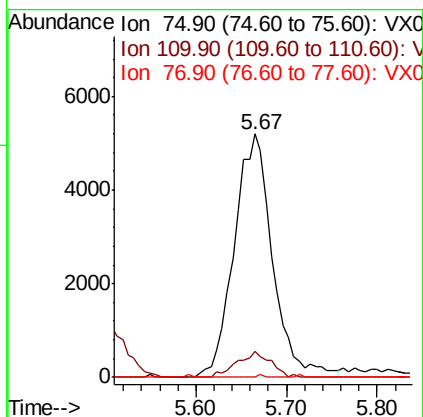
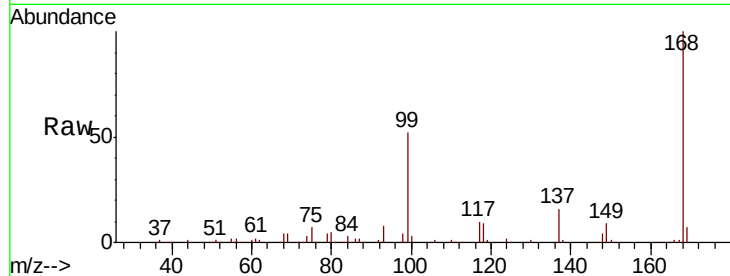




#36
 1,1-Dichloropropene
 Concen: 3.866 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005054.D
 Acq: 05 Oct 2018 08:04

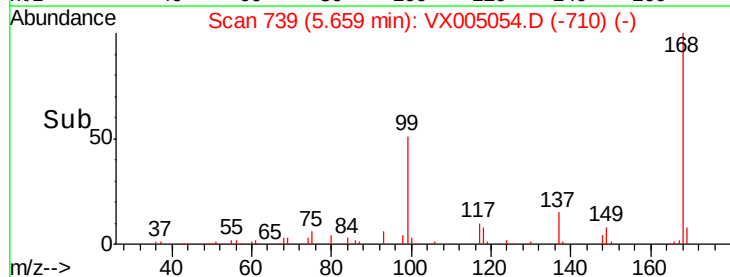
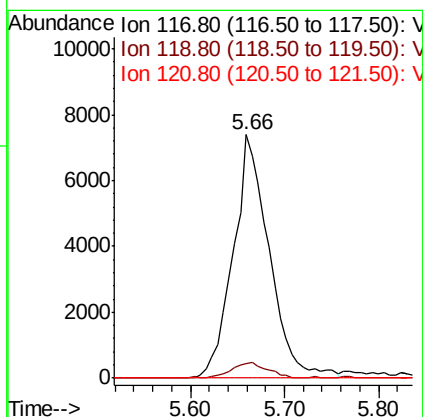
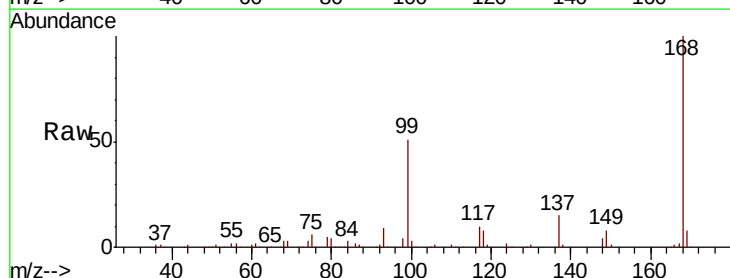
Instrument :
 MSVOA_X
 ClientSampleId :
 PB113487ZHE#04

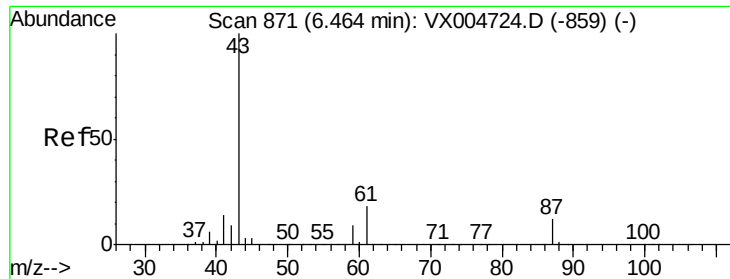
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.2	20.0	59.9#
77	0.2	27.1	40.7#



#38
 Carbon Tetrachloride
 Concen: 4.737 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX005054.D
 Acq: 05 Oct 2018 08:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	75.2	112.8#
121	0.0	22.5	33.7#





#43

Isopropyl Acetate

Concen: 24.525 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.00 min

Lab File: VX005054.D

Acq: 05 Oct 2018 08:04

Instrument :

MSVOA_X

ClientSampleId :

PB113487ZHE#04

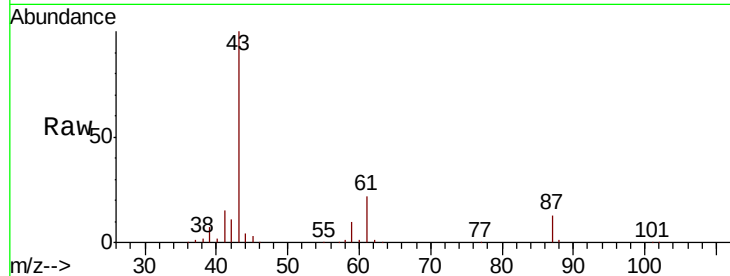
Tot Ion: 43 Resp: 185422

Ion Ratio Lower Upper

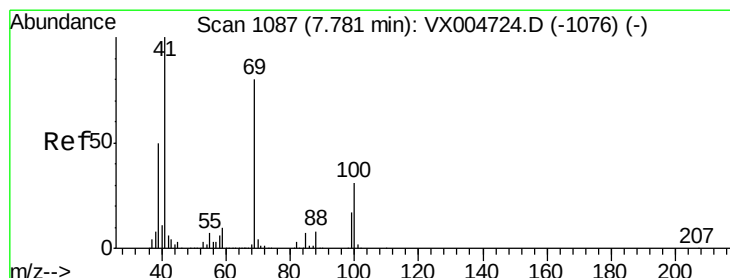
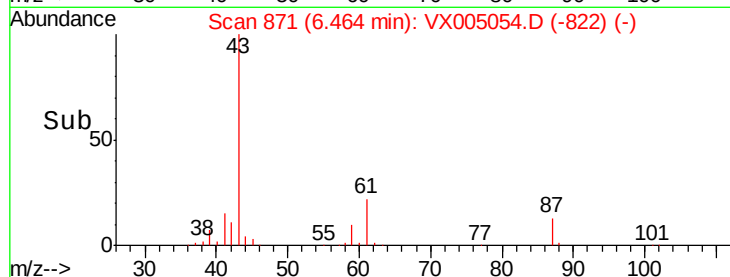
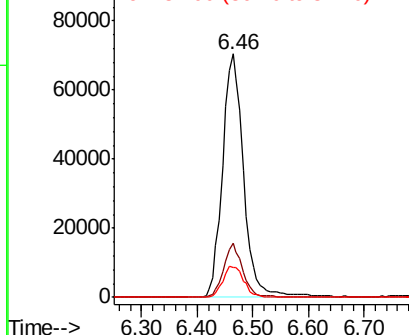
43 100

61 19.9 14.2 21.4

87 12.6 9.3 13.9



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: 1.957 ug/l

RT: 7.69 min Scan# 1072

Delta R.T. -0.09 min

Lab File: VX005054.D

Acq: 05 Oct 2018 08:04

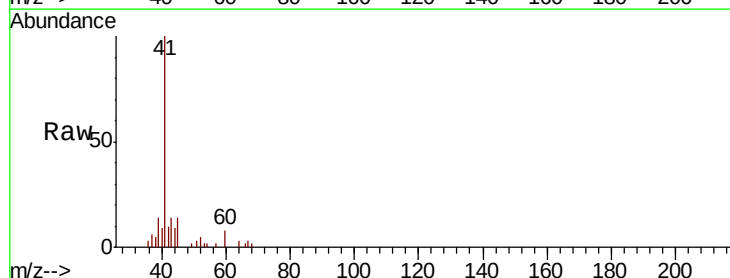
Tgt Ion: 41 Resp: 6717

Ion Ratio Lower Upper

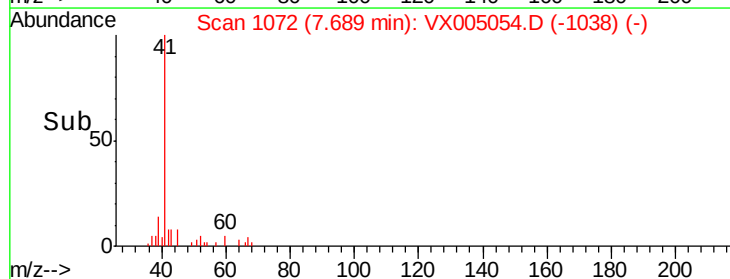
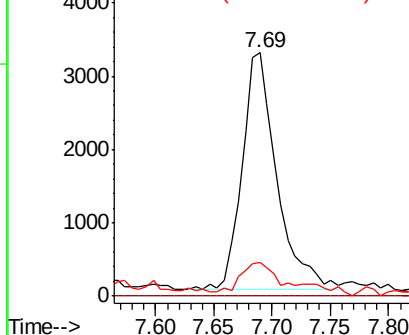
41 100

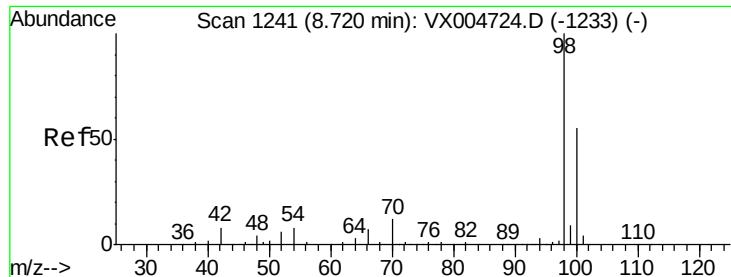
69 0.0 63.8 95.6#

39 20.4 40.7 61.1#



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

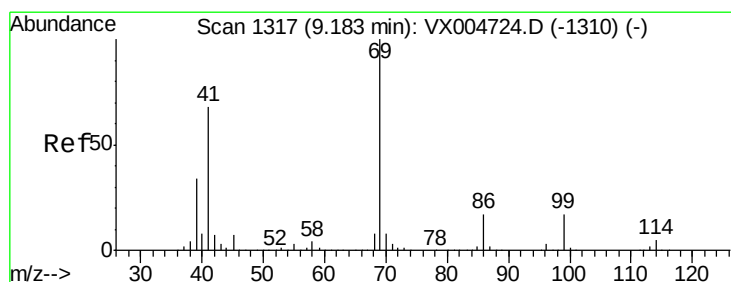
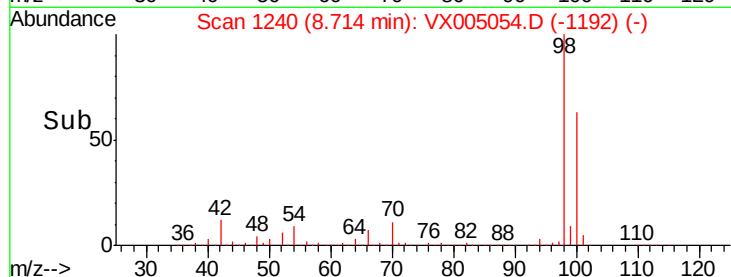
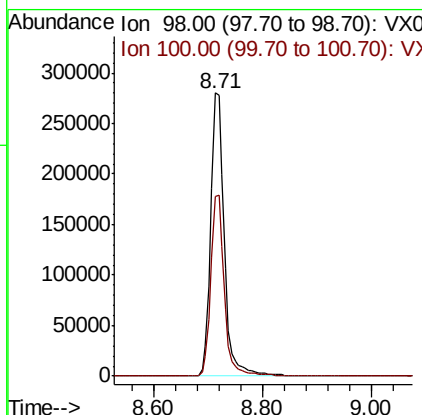
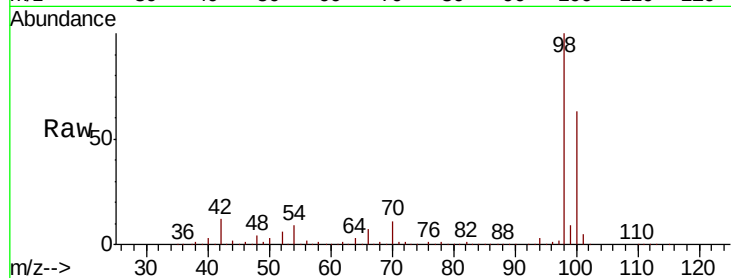




#50
Toluene-d8
Concen: 50.466 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.01 min
Lab File: VX005054.D
Acq: 05 Oct 2018 08:04

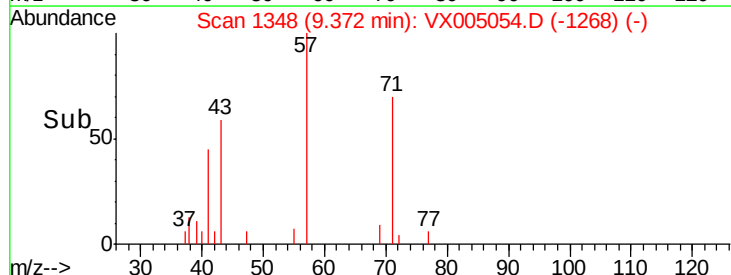
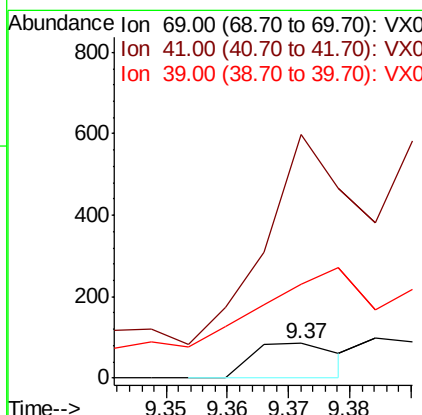
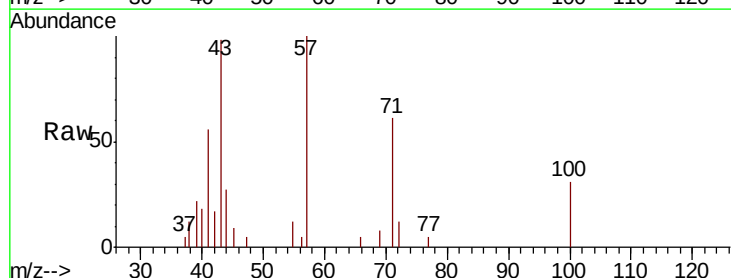
Instrument :
MSVOA_X
ClientSampleId :
PB113487ZHE#04

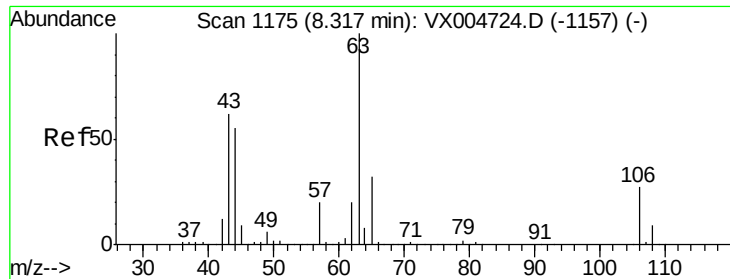
Tot Ion: 98 Resp: 485261
Ion Ratio Lower Upper
98 100
100 63.2 51.9 77.9



#56
Ethyl methacrylate
Concen: 2.878 ug/l
RT: 9.37 min Scan# 1348
Delta R.T. 0.19 min
Lab File: VX005054.D
Acq: 05 Oct 2018 08:04

Tgt Ion: 69 Resp: 84
Ion Ratio Lower Upper
69 100
41 657.1 56.9 85.3#
39 572.6 28.4 42.6#

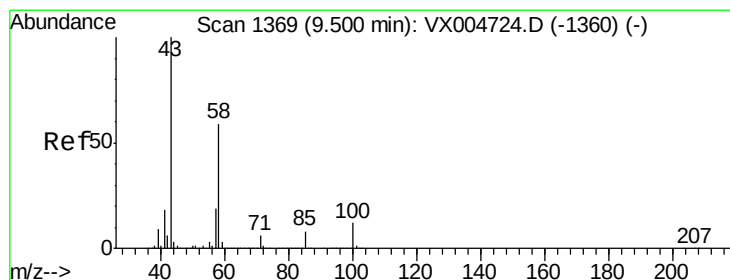
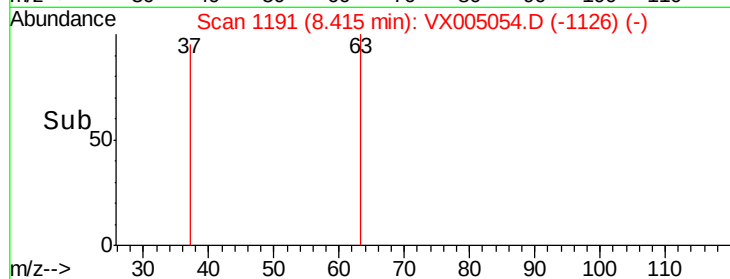
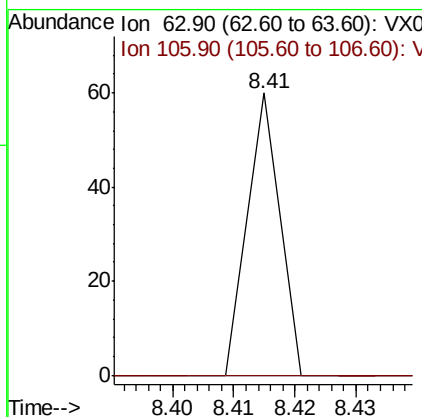
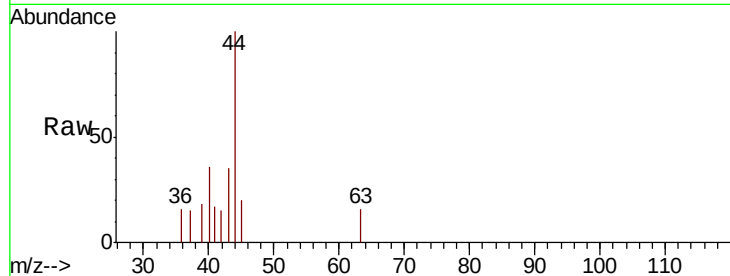




#58
 2-Chloroethyl Vinyl ether
 Concen: 14.250 ug/l
 RT: 8.41 min Scan# 1191
 Delta R.T. 0.10 min
 Lab File: VX005054.D
 Acq: 05 Oct 2018 08:04

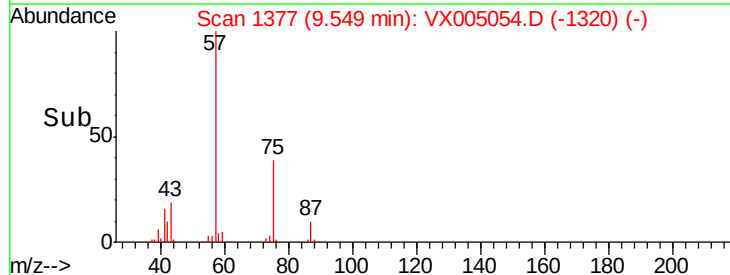
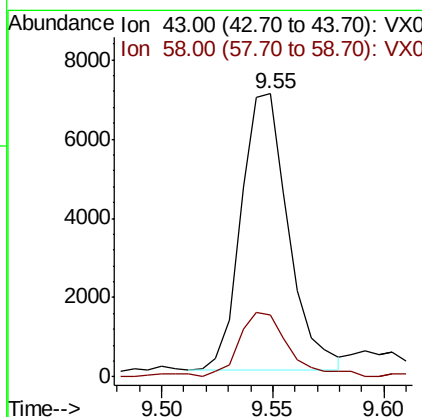
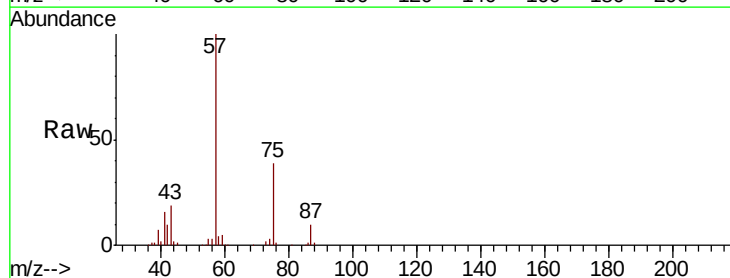
Instrument :
 MSVOA_X
 ClientSampleId :
 PB113487ZHE#04

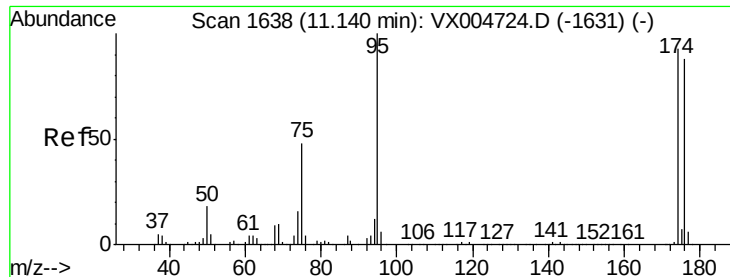
Tot Ion: 63 Resp: 22
 Ion Ratio Lower Upper
 63 100
 106 0.0 21.0 31.6#



#59
 2-Hexanone
 Concen: 2.578 ug/l
 RT: 9.55 min Scan# 1377
 Delta R.T. 0.05 min
 Lab File: VX005054.D
 Acq: 05 Oct 2018 08:04

Tgt Ion: 43 Resp: 10225
 Ion Ratio Lower Upper
 43 100
 58 24.8 28.4 85.3#





#62

4-Bromofluorobenzene

Concen: 49.211 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005054.D

Acq: 05 Oct 2018 08:04

Instrument :

MSVOA_X

ClientSampleId :

PB113487ZHE#04

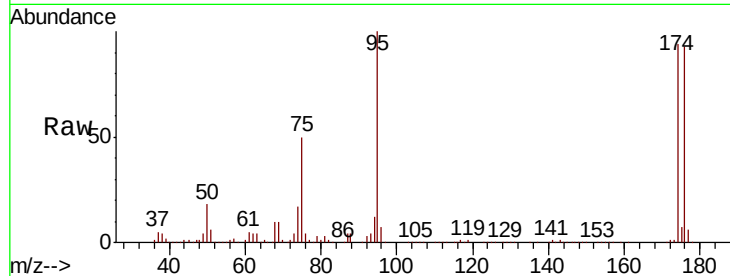
Tot Ion: 95 Resp: 170471

Ion Ratio Lower Upper

95 100

174 92.6 0.0 185.0

176 89.6 0.0 180.2



Abundance Ion 94.90 (94.60 to 95.60): VX004724.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX004724.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX004724.D (-1631) (-)

11.14

150000

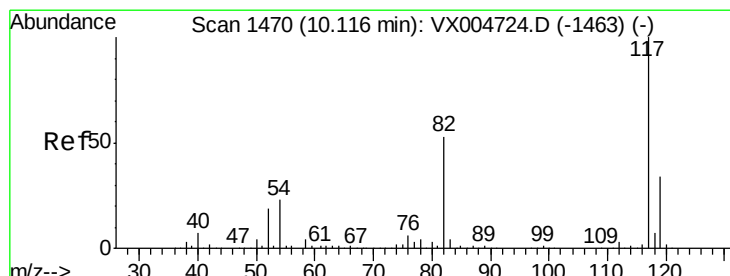
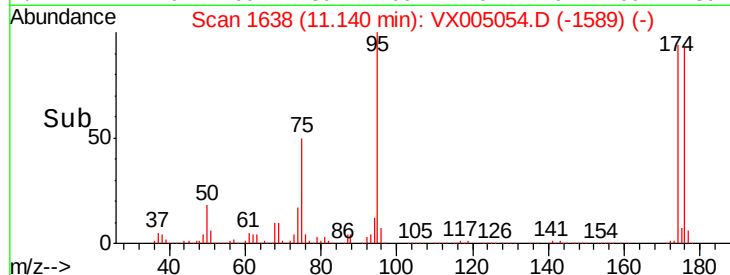
100000

50000

0

Time-->

11.10 11.20 11.30



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX005054.D

Acq: 05 Oct 2018 08:04

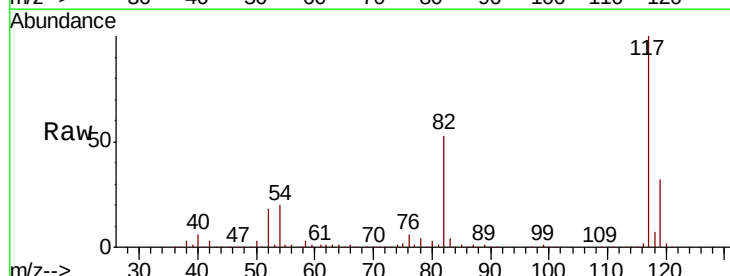
Tgt Ion: 117 Resp: 332102

Ion Ratio Lower Upper

117 100

82 52.8 42.2 63.4

119 31.9 27.4 41.0



Abundance Ion 116.90 (116.60 to 117.60): VX004724.D (-1463) (-)

Ion 82.00 (81.70 to 82.70): VX004724.D (-1463) (-)

Ion 118.90 (118.60 to 119.60): VX004724.D (-1463) (-)

10.12

300000

250000

200000

150000

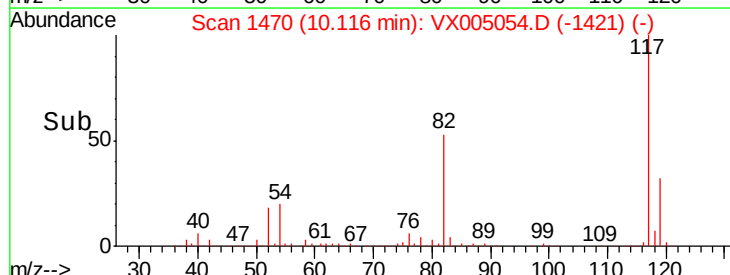
100000

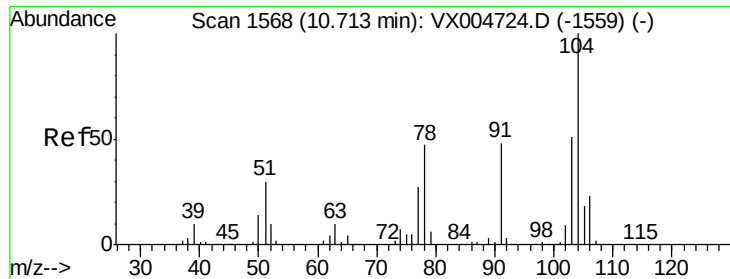
50000

0

Time-->

10.00 10.10 10.20

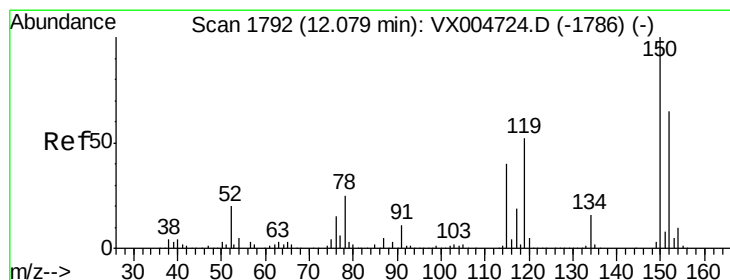
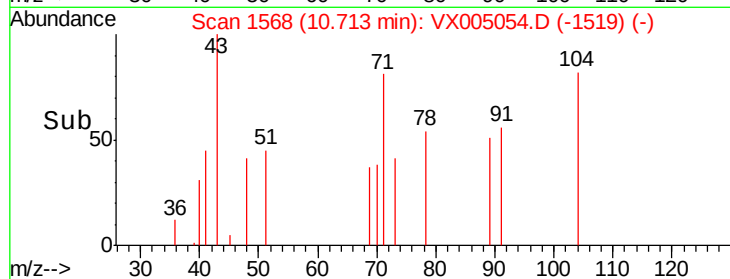
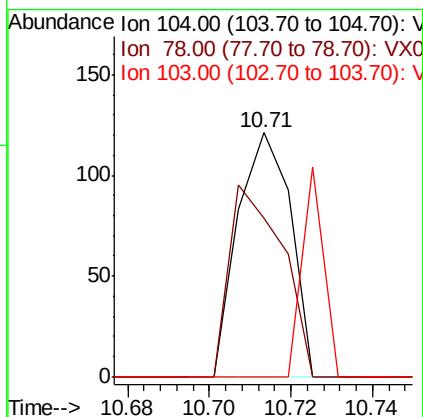
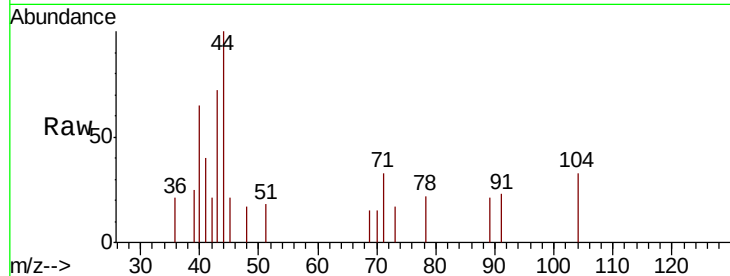




#70
Stvrene
Concen: 2.152 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VX005054.D
Acq: 05 Oct 2018 08:04

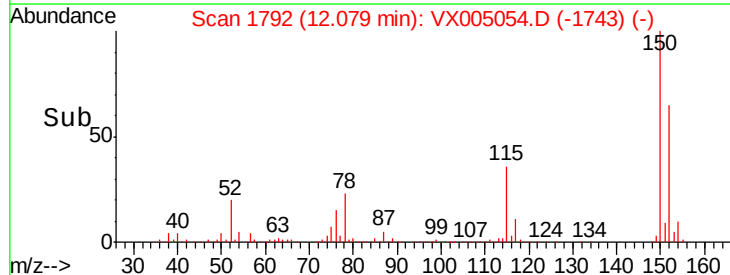
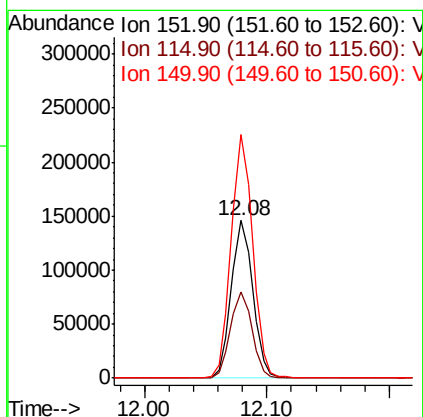
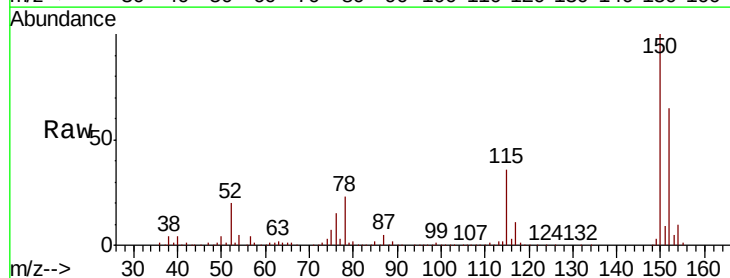
Instrument :
MSVOA_X
ClientSampleId :
PB113487ZHE#04

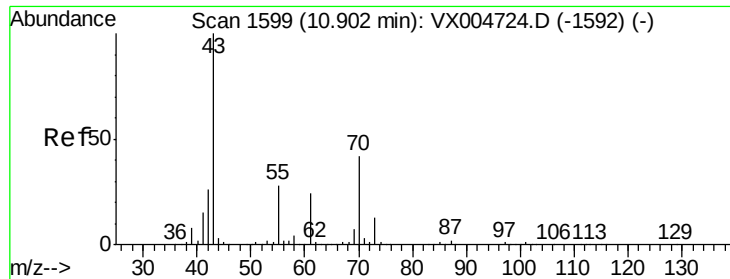
Tot Ion:104 Resp: 109
Ion Ratio Lower Upper
104 100
78 78.9 40.0 60.0#
103 34.9 44.3 66.5#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX005054.D
Acq: 05 Oct 2018 08:04

Tgt Ion:152 Resp: 177062
Ion Ratio Lower Upper
152 100
115 55.4 40.2 120.6
150 154.4 0.0 351.0





#74

N-amvl acetate

Concen: 1.763 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX005054.D

Acq: 05 Oct 2018 08:04

Instrument :

MSVOA_X

ClientSampleId :

PB113487ZHE#04

Tot Ion: 43 Resp: 99

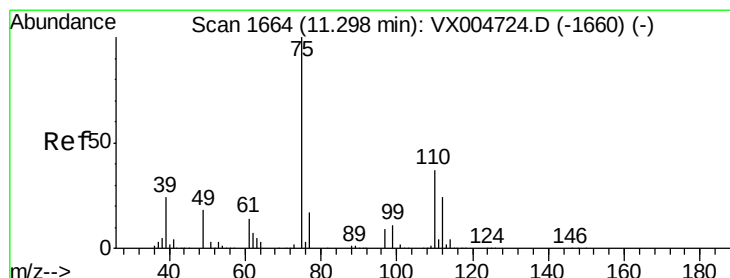
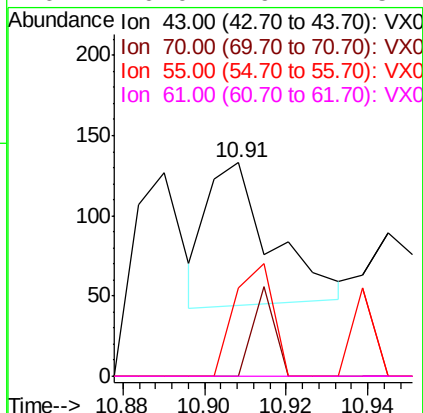
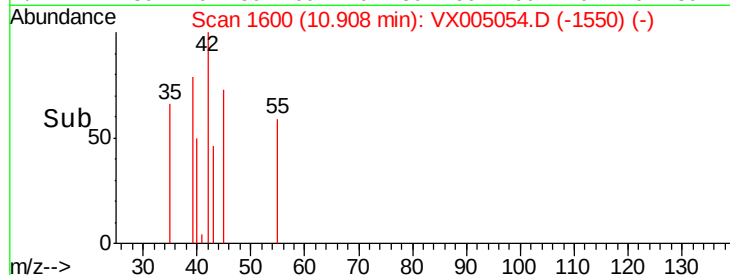
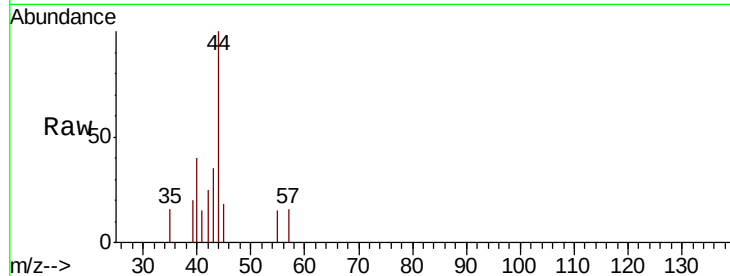
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 46.5 21.6 32.4#

61 0.0 19.1 28.7#



#76

1,2,3-Trichloropropane

Concen: 21.398 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005054.D

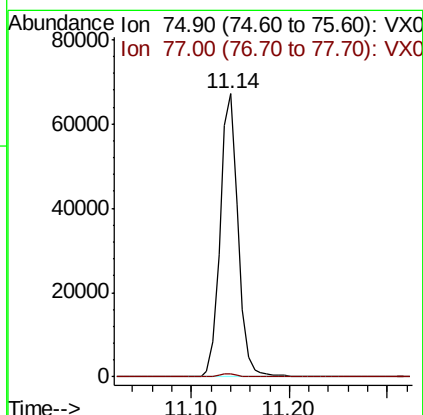
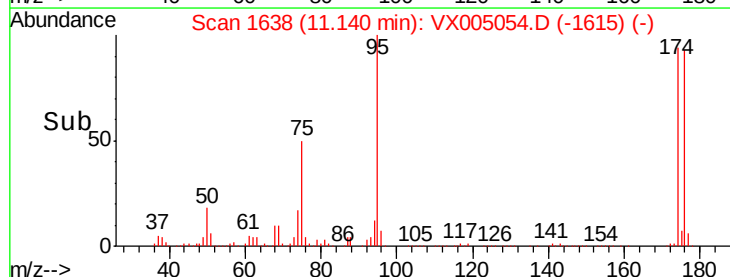
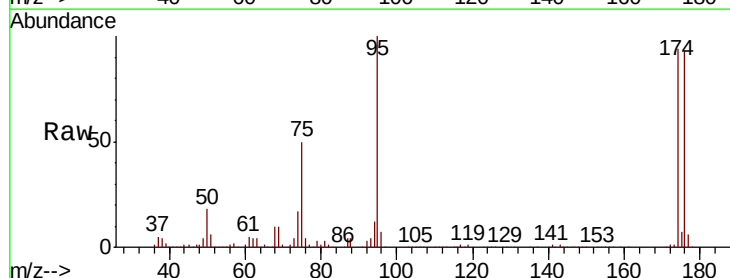
Acq: 05 Oct 2018 08:04

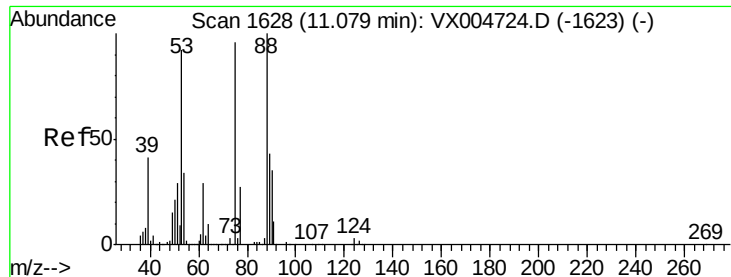
Tgt Ion: 75 Resp: 84920

Ion Ratio Lower Upper

75 100

77 1.3 21.4 64.3#

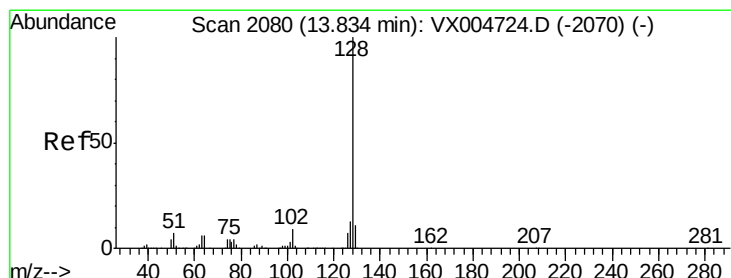
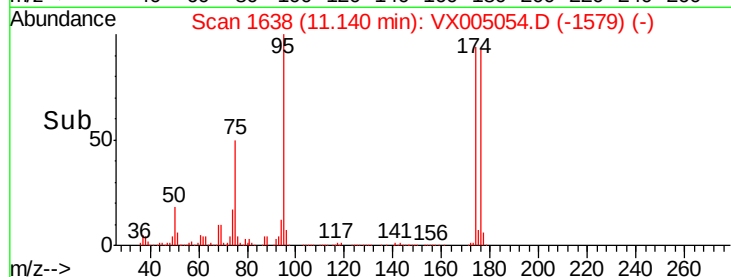
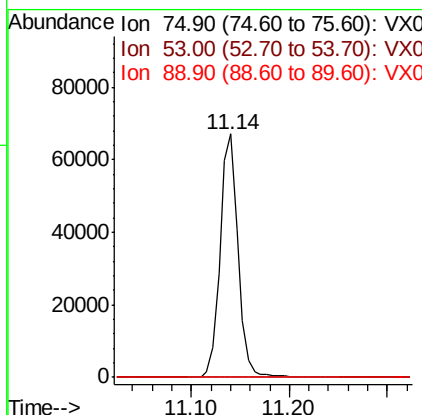
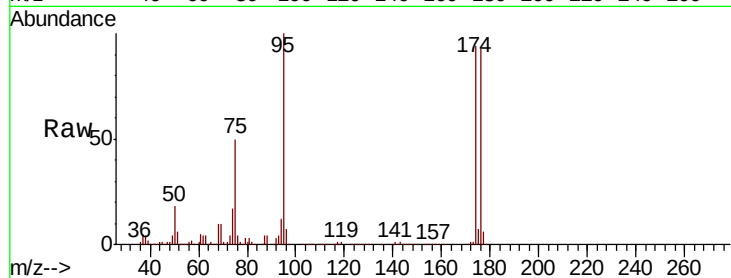




#81
trans-1,4-Dichloro-2-butene
Concen: 58.028 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.06 min
Lab File: VX005054.D
Acq: 05 Oct 2018 08:04

Instrument :
MSVOA_X
ClientSampleId :
PB113487ZHE#04

Tot Ion: 75 Resp: 84920
Ion Ratio Lower Upper
75 100
53 0.2 80.2 120.4#
89 0.0 37.1 55.7#



#95
Naphthalene
Concen: 0.766 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX005054.D
Acq: 05 Oct 2018 08:04

Tgt Ion:128 Resp: 697
Ion Ratio Lower Upper
128 100
127 19.2 10.4 15.6#
129 6.5 8.7 13.1#

