

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100518\
 Data File : VX005086.D
 Acq On : 06 Oct 2018 00:12
 Operator : JC/MD
 Sample : PB113539ZHE#01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB113539ZHE#01

Quant Time: Oct 06 00:47:16 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	5.67	168	209170	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	339091	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	340130	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	187891	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	168348	56.34	ug/l	0.00
Spiked Amount			Recovery	=	112.68%	
35) Dibromofluoromethane	5.51	113	137141	47.72	ug/l	0.00
Spiked Amount			Recovery	=	95.44%	
50) Toluene-d8	8.71	98	486830	50.96	ug/l	0.00
Spiked Amount			Recovery	=	101.92%	
62) 4-Bromofluorobenzene	11.14	95	180388	52.41	ug/l	0.00
Spiked Amount			Recovery	=	104.82%	

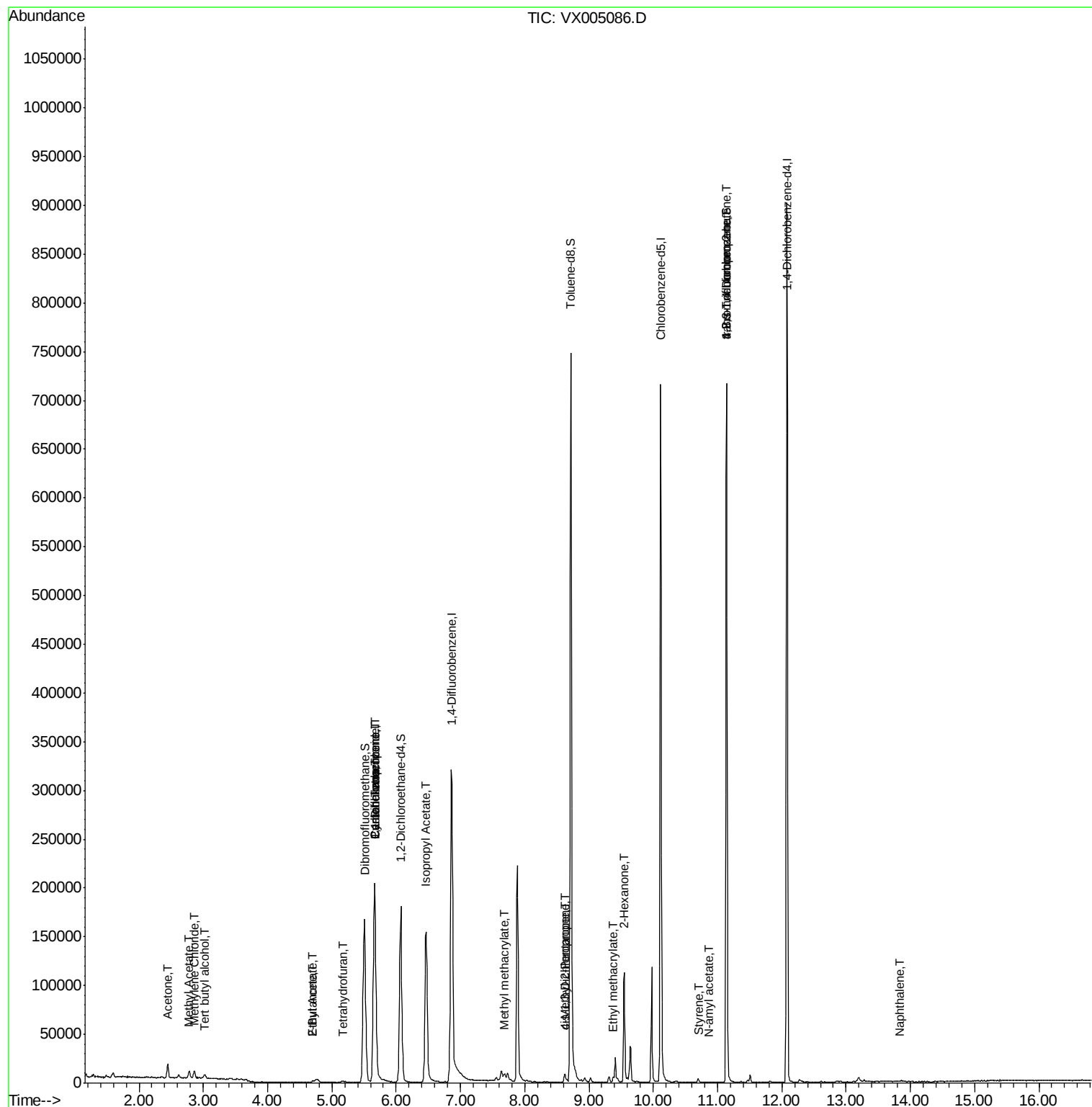
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.69	64	63	Below Cal	#	45
11) Tert butyl alcohol	3.03	59	2852	3.414	ug/l #	80
16) Acetone	2.45	43	15085	8.647	ug/l #	86
18) Methyl Acetate	2.78	43	8687	1.965	ug/l	99
20) Methylene Chloride	2.85	84	3535	0.564	ug/l #	84
25) 2-Butanone	4.71	43	3225	1.254	ug/l	95
29) Tetrahydrofuran	5.17	42	1688	1.056	ug/l #	88
31) Cyclohexane	5.66	56	3852	1.013	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	14599	3.723	ug/l #	46
37) Ethyl Acetate	4.71	43	3225	0.620	ug/l #	69
38) Carbon Tetrachloride	5.67	117	20158	4.891	ug/l #	16
43) Isopropyl Acetate	6.46	43	215943	28.746	ug/l	98
48) Methyl methacrylate	7.68	41	8220	2.411	ug/l #	25
51) 4-Methyl-2-Pentanone	8.62	43	2758	0.583	ug/l #	37
54) cis-1,3-Dichloropropene	8.63	75	1249	0.298	ug/l #	71
56) Ethyl methacrylate	9.38	69	264	2.914	ug/l #	1
59) 2-Hexanone	9.55	43	13415	3.403	ug/l #	52
70) Styrene	10.71	104	249	2.166	ug/l #	77
74) N-amyl acetate	10.87	43	89	1.761	ug/l #	43
76) 1,2,3-Trichloropropane	11.14	75	88909	21.112	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.14	75	88909	57.279	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	598	Below Cal	#	62
95) Naphthalene	13.83	128	558	0.755	ug/l #	86

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

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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: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005086.D

Acq: 06 Oct 2018 00:12

Instrument :

MSVOA_X

ClientSampleId :

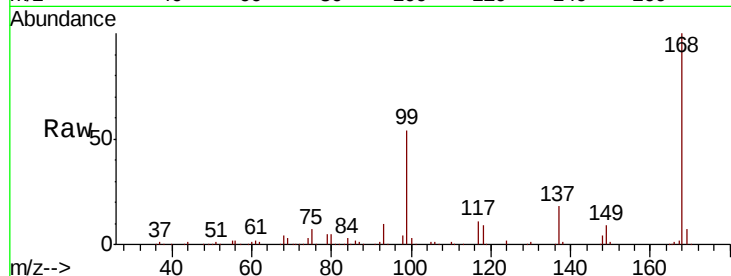
PB113539ZHE#01

Tot Ion:168 Resp: 209170

Ion Ratio Lower Upper

168 100

99 54.0 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

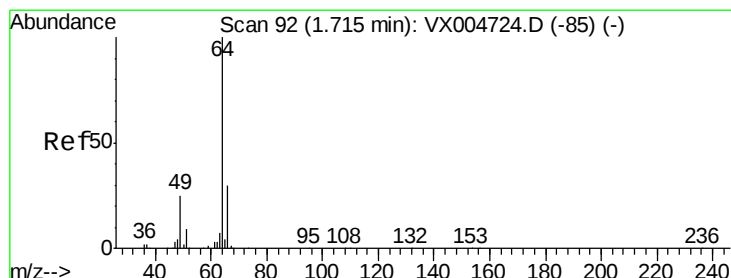
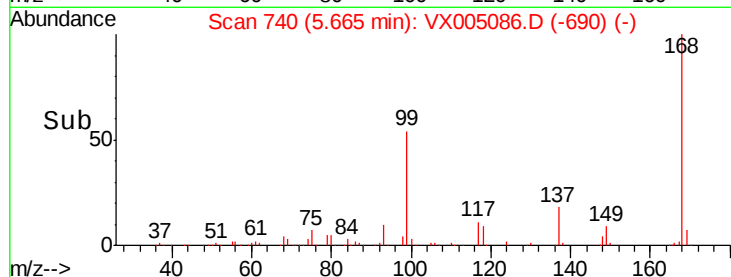
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 88

Delta R.T. -0.02 min

Lab File: VX005086.D

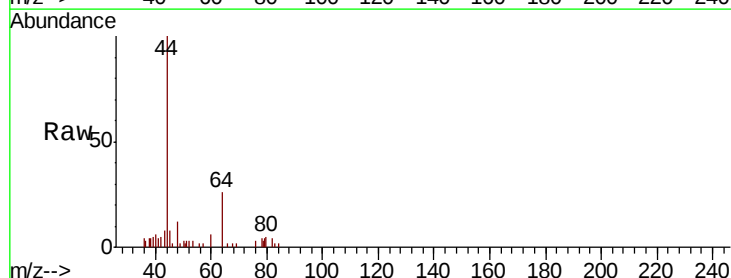
Acq: 06 Oct 2018 00:12

Tgt Ion: 64 Resp: 63

Ion Ratio Lower Upper

64 100

66 0.0 23.8 35.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.69

800

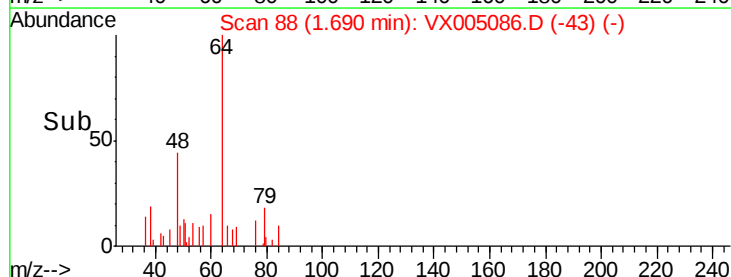
600

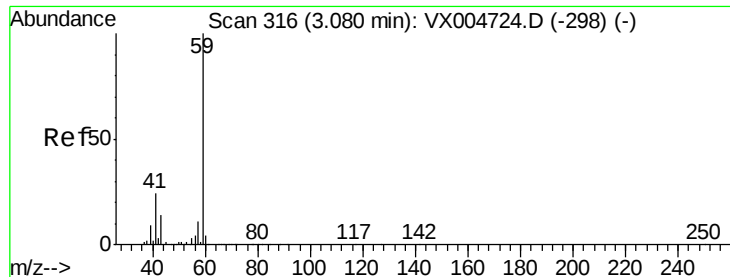
400

200

0

Time--> 1.68 1.69 1.70 1.70

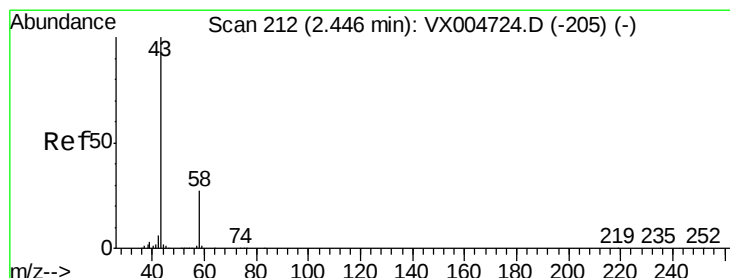
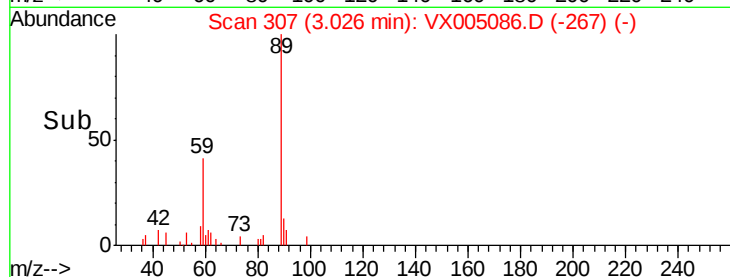
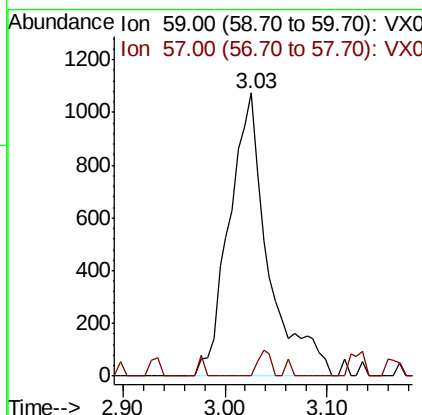
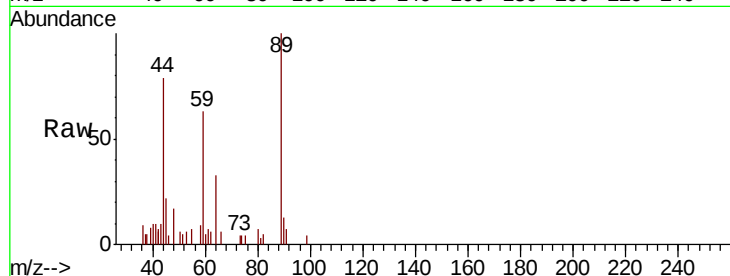




#11
Tert butyl alcohol
Concen: 3.414 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.05 min
Lab File: VX005086.D
Acq: 06 Oct 2018 00:12

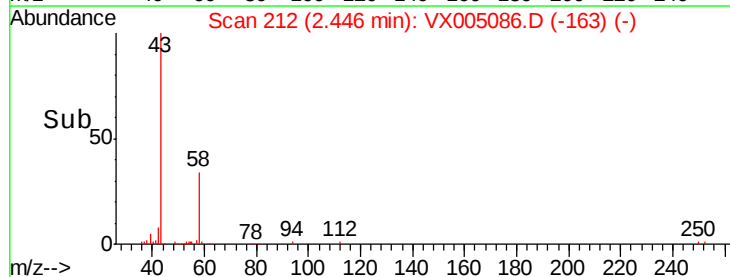
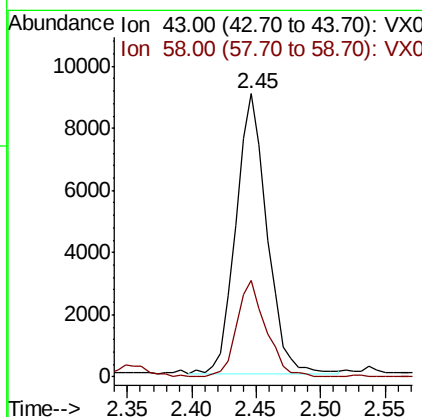
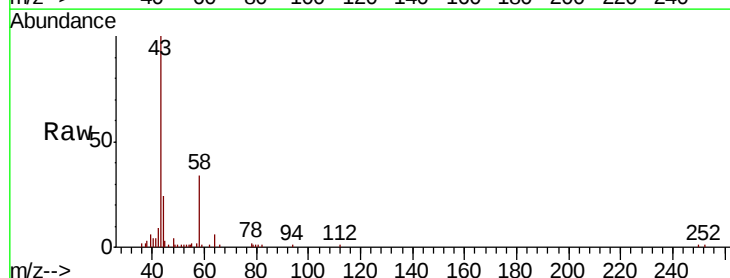
Instrument :
MSVOA_X
ClientSampleId :
PB113539ZHE#01

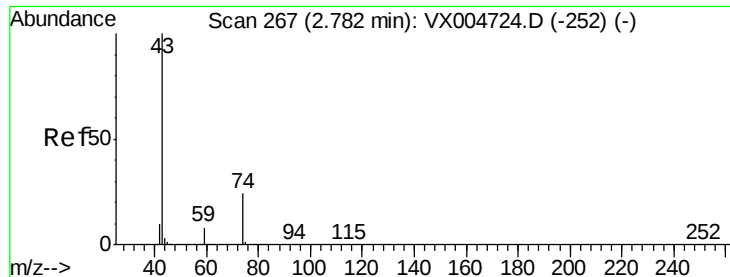
Tot Ion: 59 Resp: 2852
Ion Ratio Lower Upper
59 100
57 3.1 8.6 12.8#



#16
Acetone
Concen: 8.647 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX005086.D
Acq: 06 Oct 2018 00:12

Tgt Ion: 43 Resp: 15085
Ion Ratio Lower Upper
43 100
58 34.3 21.8 32.6#

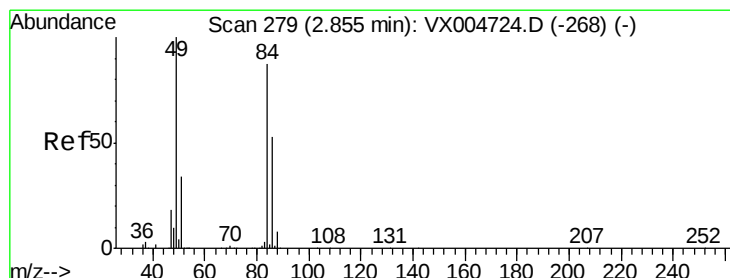
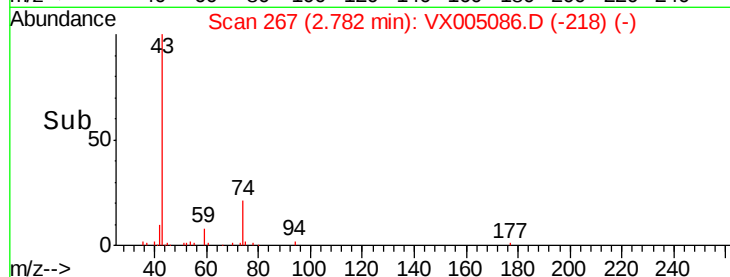
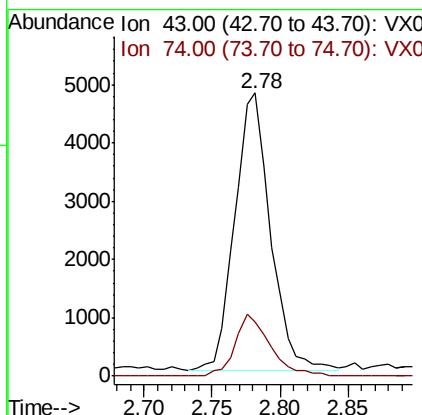
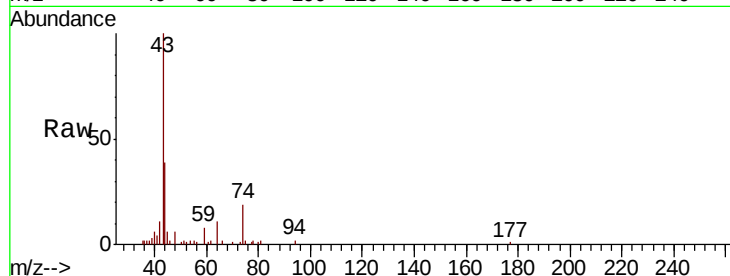




#18
Methvl Acetate
Concen: 1.965 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX005086.D
Acq: 06 Oct 2018 00:12

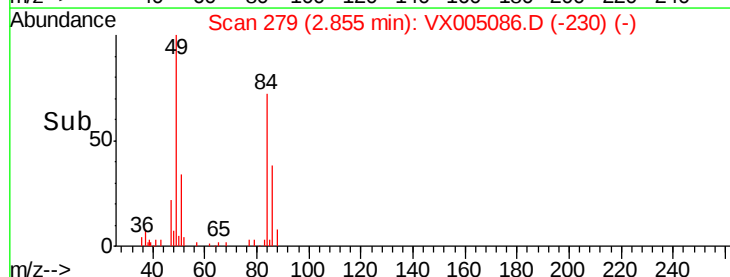
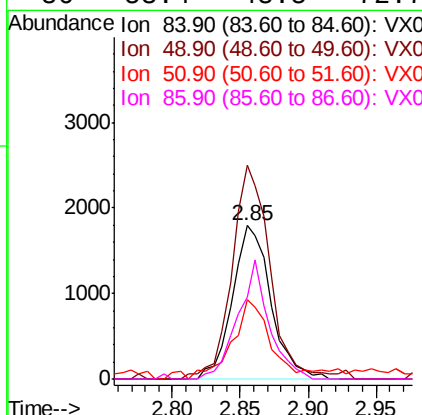
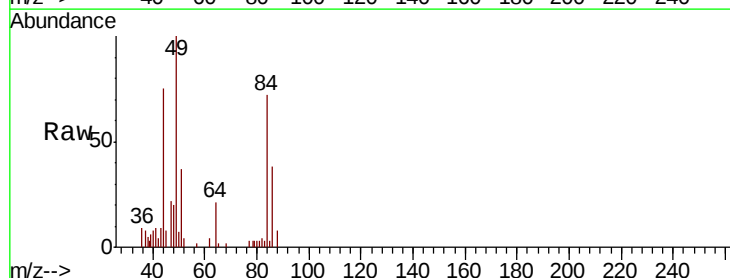
Instrument :
MSVOA_X
ClientSampleId :
PB113539ZHE#01

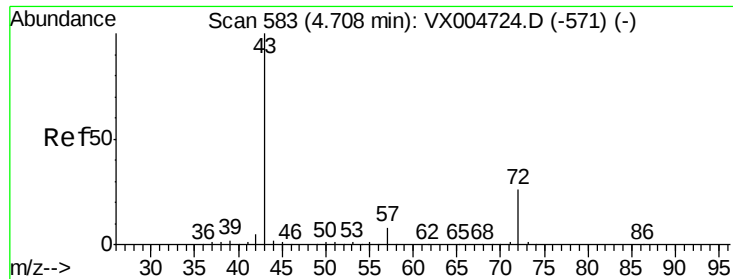
Tot Ion: 43 Resp: 8687
Ion Ratio Lower Upper
43 100
74 22.0 17.8 26.8



#20
Methylene Chloride
Concen: 0.564 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX005086.D
Acq: 06 Oct 2018 00:12

Tgt Ion: 84 Resp: 3535
Ion Ratio Lower Upper
84 100
49 136.0 92.3 138.5
51 51.8 31.8 47.6#
86 53.4 48.5 72.7





#25

2-Butanone

Concen: 1.254 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.00 min

Lab File: VX005086.D

Acq: 06 Oct 2018 00:12

Instrument :

MSVOA_X

ClientSampleId :

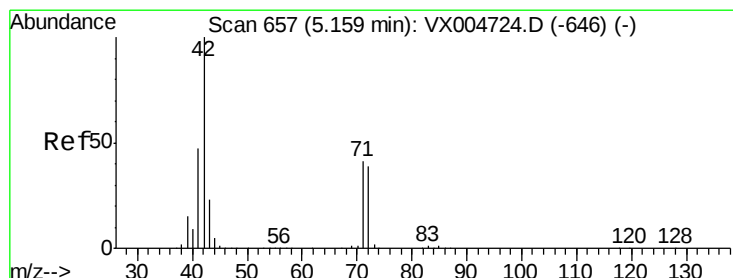
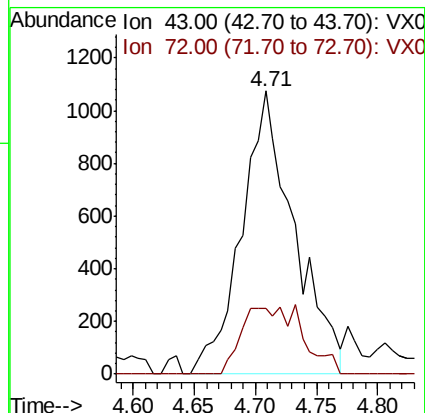
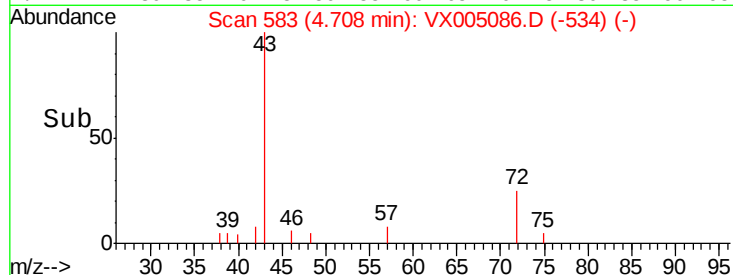
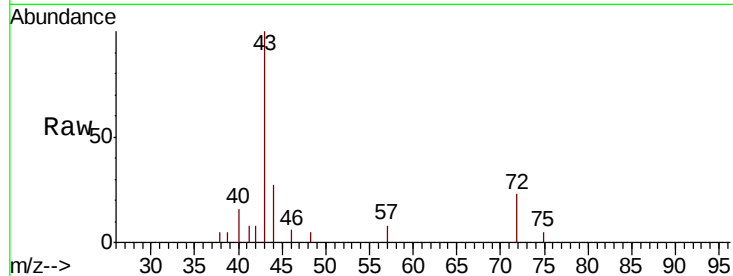
PB113539ZHE#01

Tot Ion: 43 Resp: 3225

Ion Ratio Lower Upper

43 100

72 23.5 20.8 31.2



#29

Tetrahydrofuran

Concen: 1.056 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX005086.D

Acq: 06 Oct 2018 00:12

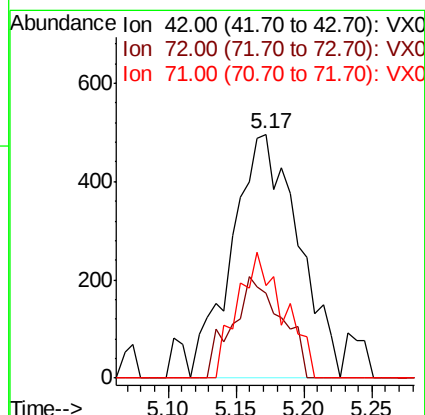
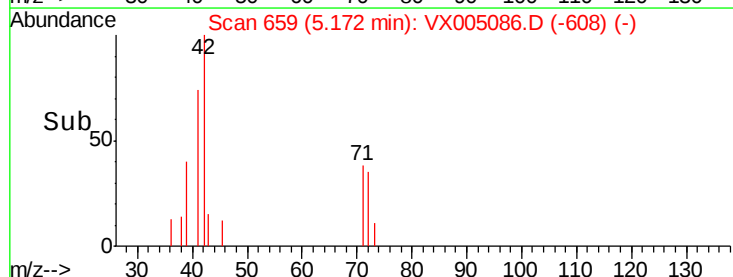
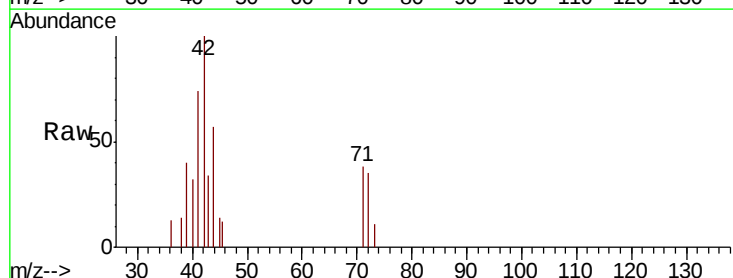
Tgt Ion: 42 Resp: 1688

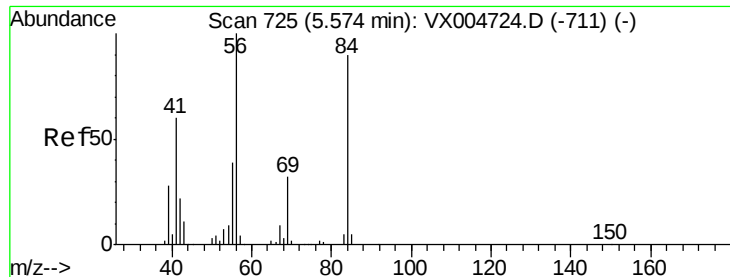
Ion Ratio Lower Upper

42 100

72 31.0 33.7 50.5#

71 36.1 32.2 48.4

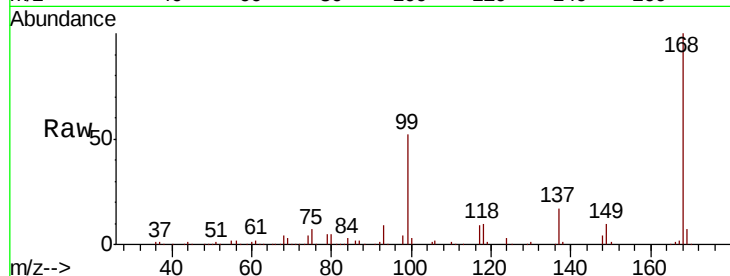




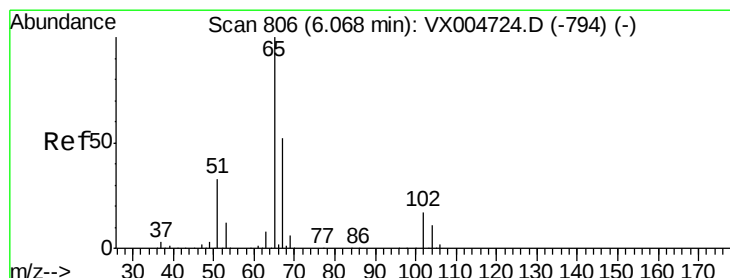
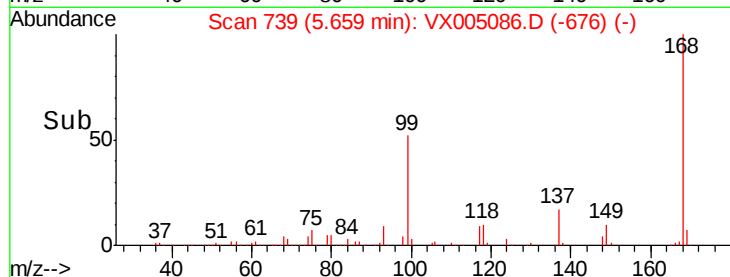
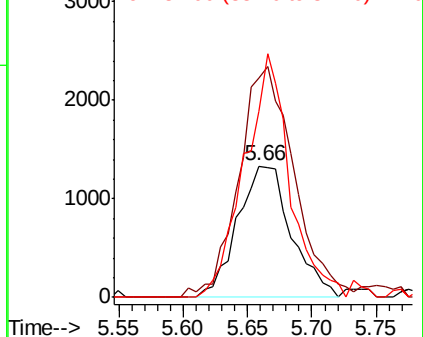
#31
Cyclohexane
Concen: 1.013 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX005086.D
Acq: 06 Oct 2018 00:12

Instrument :
MSVOA_X
ClientSampleId :
PB113539ZHE#01

Tot Ion: 56 Resp: 3852
Ion Ratio Lower Upper
56 100
69 160.3 25.9 38.9#
84 142.3 71.9 107.9#

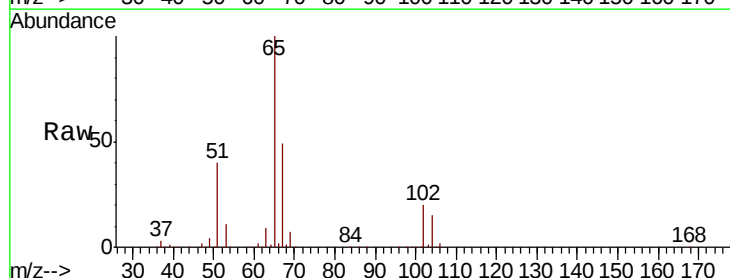


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

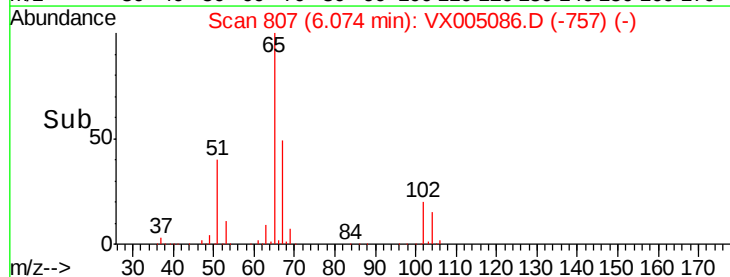
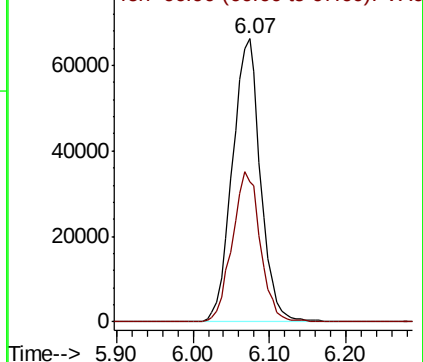


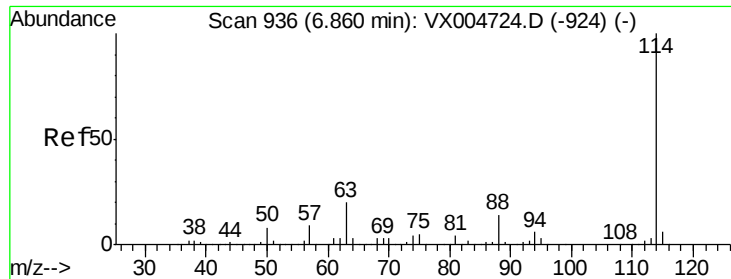
#33
1,2-Dichloroethane-d4
Concen: 56.341 ug/l
RT: 6.07 min Scan# 807
Delta R.T. 0.01 min
Lab File: VX005086.D
Acq: 06 Oct 2018 00:12

Tgt Ion: 65 Resp: 168348
Ion Ratio Lower Upper
65 100
67 53.1 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

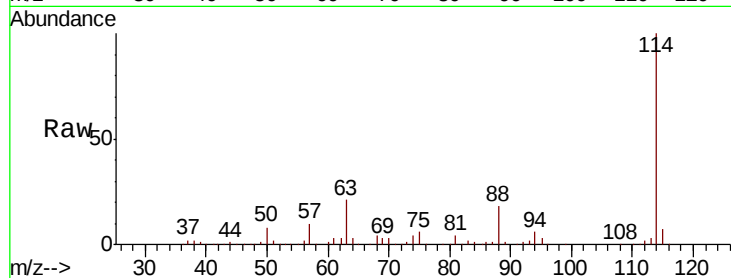




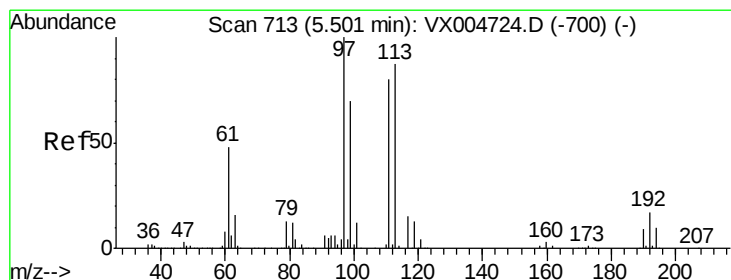
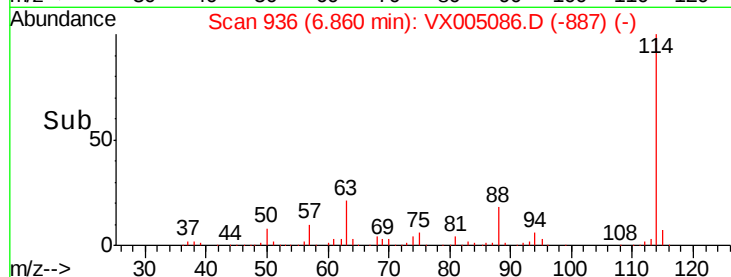
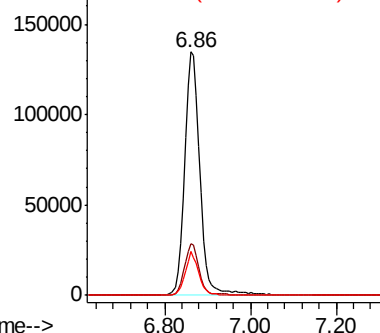
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX005086.D
 Acq: 06 Oct 2018 00:12

Instrument :
 MSVOA_X
 ClientSampleId :
 PB113539ZHE#01

Tot Ion:114 Resp: 339091
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 39.8
 88 17.8 0.0 27.0

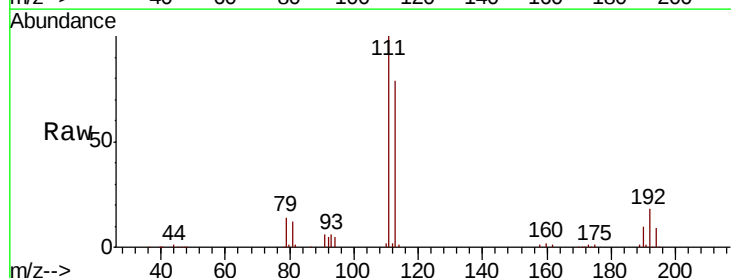


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

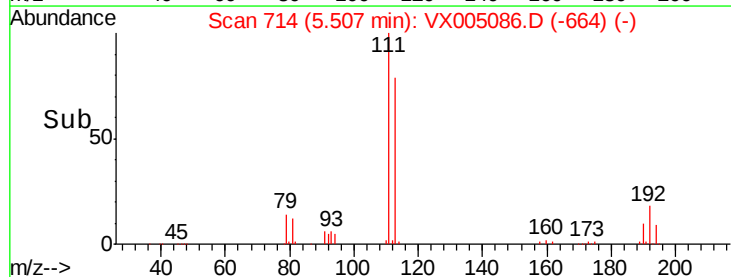
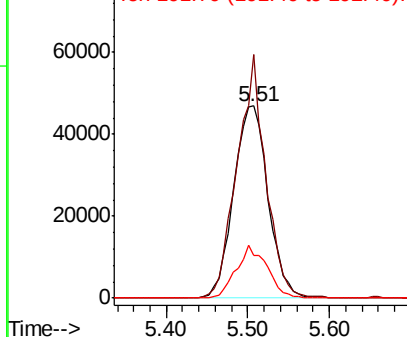


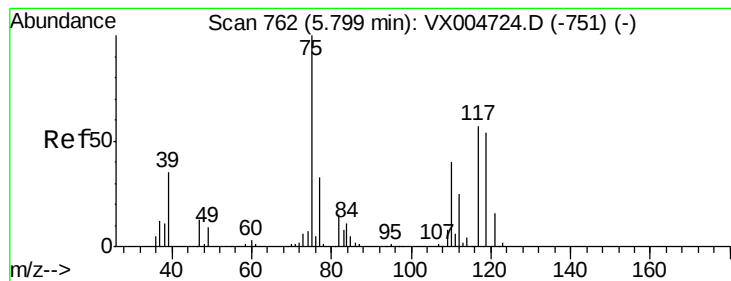
#35
 Dibromofluoromethane
 Concen: 47.720 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX005086.D
 Acq: 06 Oct 2018 00:12

Tgt Ion:113 Resp: 137141
 Ion Ratio Lower Upper
 113 100
 111 105.5 77.0 115.4
 192 24.6 17.0 25.6



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.723 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005086.D

Acq: 06 Oct 2018 00:12

Instrument :

MSVOA_X

ClientSampleId :

PB113539ZHE#01

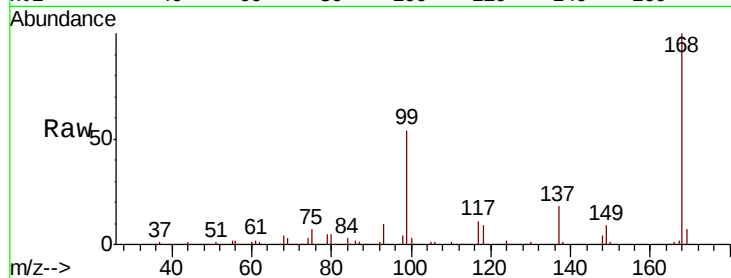
Tot Ion: 75 Resp: 14599

Ion Ratio Lower Upper

75 100

110 9.3 20.0 59.9#

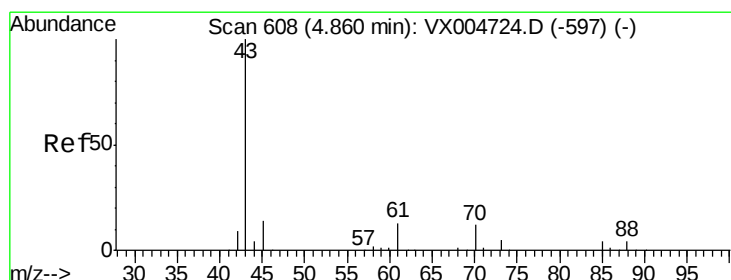
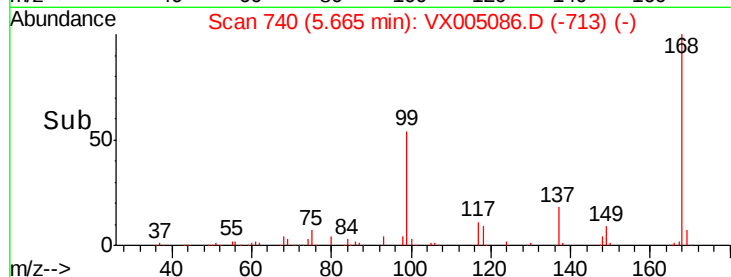
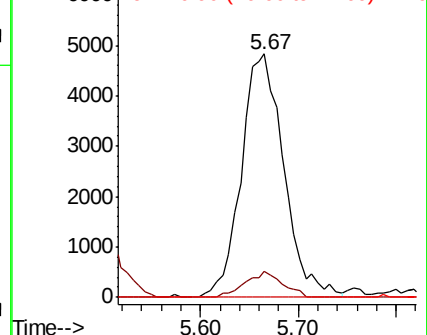
77 0.0 27.1 40.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 0.620 ug/l

RT: 4.71 min Scan# 583

Delta R.T. -0.15 min

Lab File: VX005086.D

Acq: 06 Oct 2018 00:12

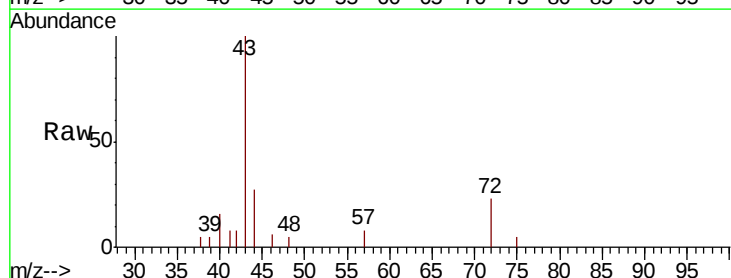
Tgt Ion: 43 Resp: 3225

Ion Ratio Lower Upper

43 100

61 0.0 10.4 15.6#

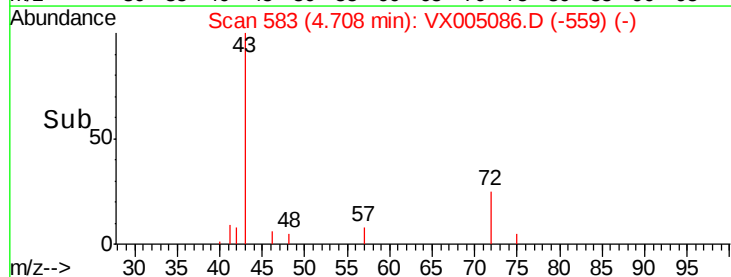
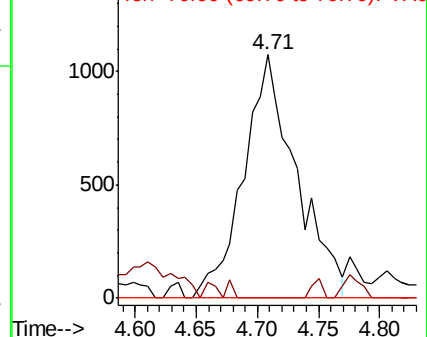
70 0.0 8.7 13.1#

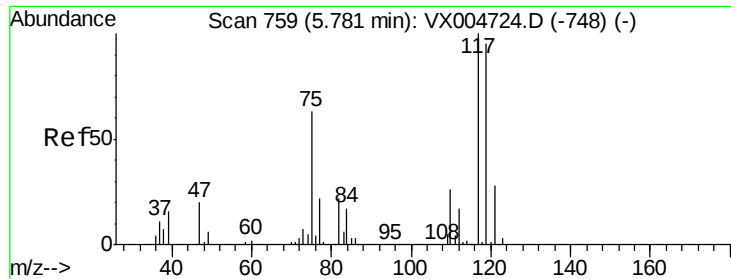


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0

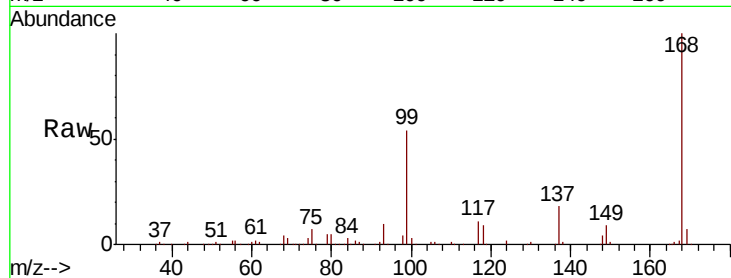




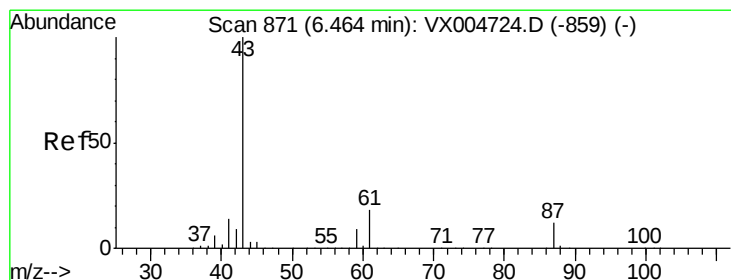
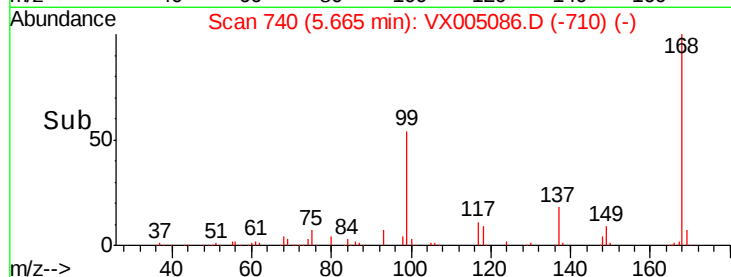
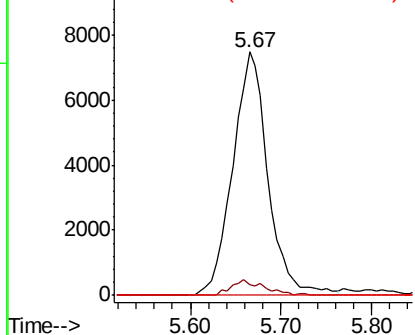
#38
Carbon Tetrachloride
Concen: 4.891 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX005086.D
Acq: 06 Oct 2018 00:12

Instrument :
MSVOA_X
ClientSampleId :
PB113539ZHE#01

Tot Ion:117 Resp: 20158
Ion Ratio Lower Upper
117 100
119 4.6 75.2 112.8#
121 0.0 22.5 33.7#

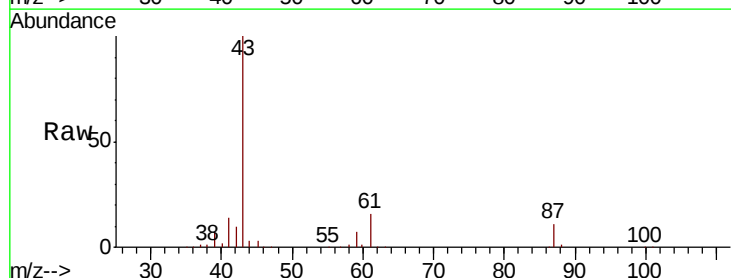


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

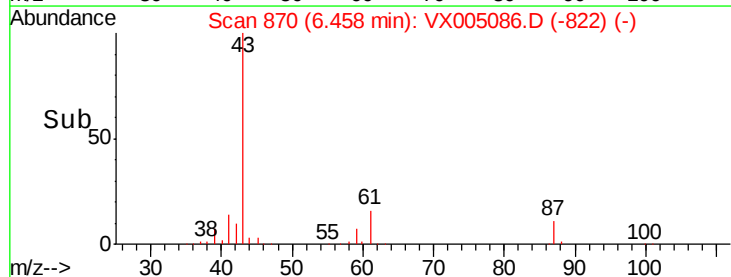
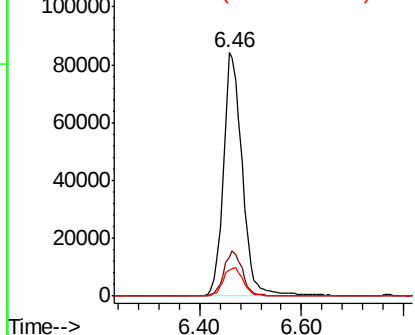


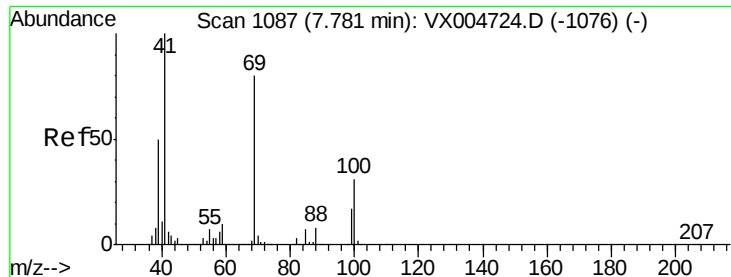
#43
Isopropyl Acetate
Concen: 28.746 ug/l
RT: 6.46 min Scan# 870
Delta R.T. -0.01 min
Lab File: VX005086.D
Acq: 06 Oct 2018 00:12

Tgt Ion: 43 Resp: 215943
Ion Ratio Lower Upper
43 100
61 18.3 14.2 21.4
87 12.4 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: 2.411 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.10 min

Lab File: VX005086.D

Acq: 06 Oct 2018 00:12

Instrument :

MSVOA_X

ClientSampleId :

PB113539ZHE#01

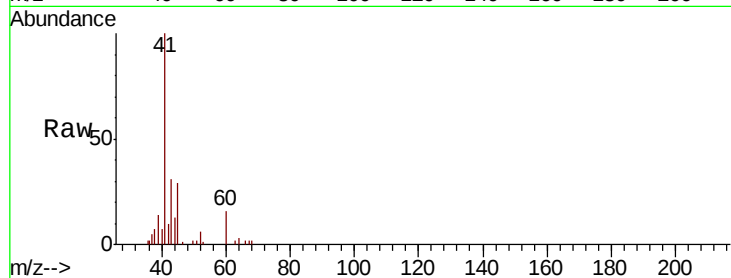
Tot Ion: 41 Resp: 8220

Ion Ratio Lower Upper

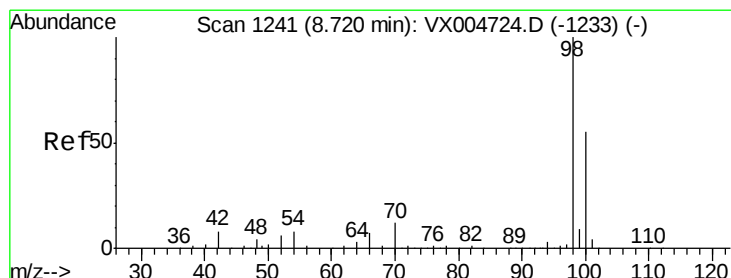
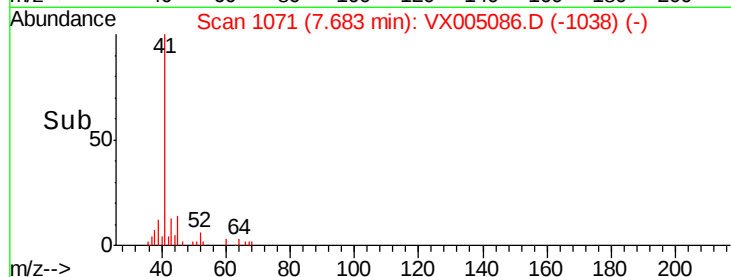
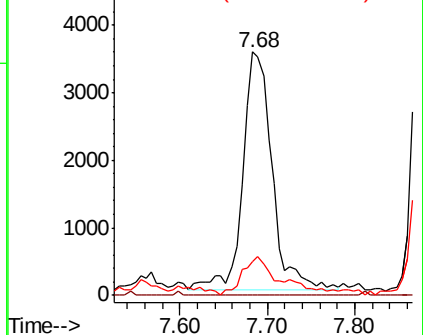
41 100

69 0.0 63.8 95.6#

39 16.1 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: 50.955 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.01 min

Lab File: VX005086.D

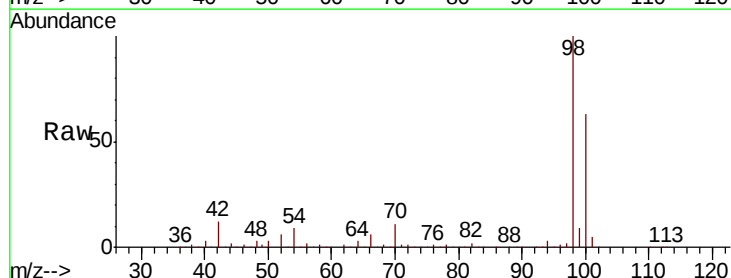
Acq: 06 Oct 2018 00:12

Tgt Ion: 98 Resp: 486830

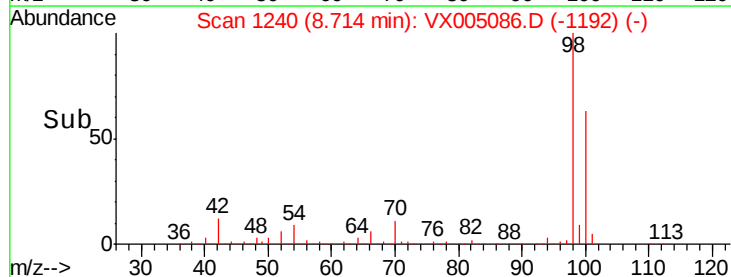
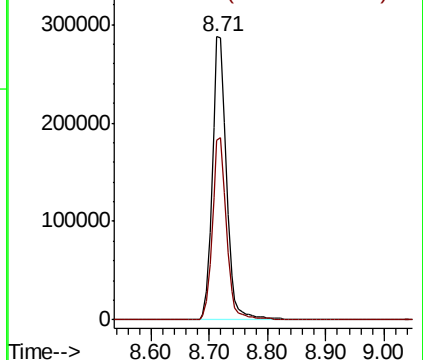
Ion Ratio Lower Upper

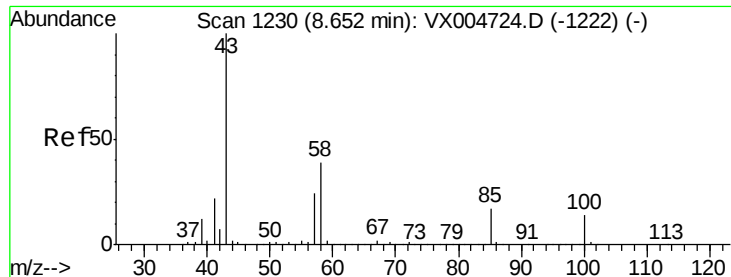
98 100

100 63.8 51.9 77.9



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: 0.583 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX005086.D

Acq: 06 Oct 2018 00:12

Instrument :

MSVOA_X

ClientSampleId :

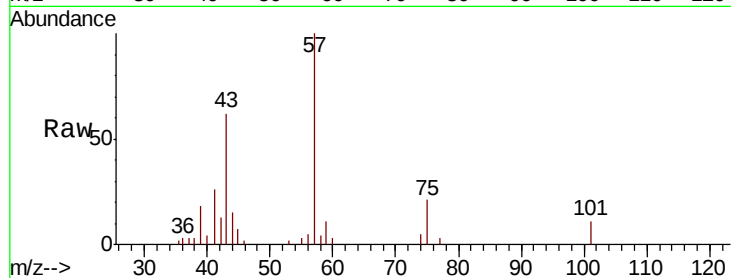
PB113539ZHE#01

Tot Ion: 43 Resp: 2758

Ion Ratio Lower Upper

43 100

58 0.0 30.5 45.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.62

1500

1000

500

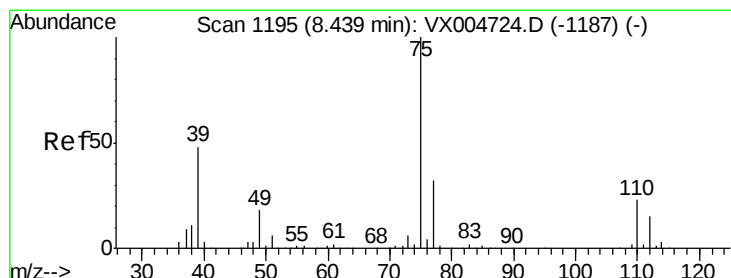
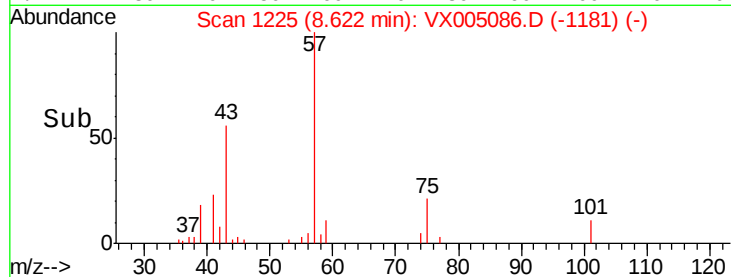
0

8.55

8.60

8.65

Time-->



#54

cis-1,3-Dichloropropene

Concen: 0.298 ug/l

RT: 8.63 min Scan# 1226

Delta R.T. 0.19 min

Lab File: VX005086.D

Acq: 06 Oct 2018 00:12

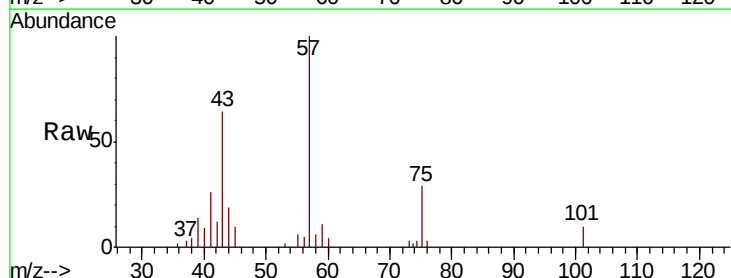
Tgt Ion: 75 Resp: 1249

Ion Ratio Lower Upper

75 100

77 0.0 25.7 38.5#

39 41.4 38.3 57.5



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

8.63

800

600

400

200

0

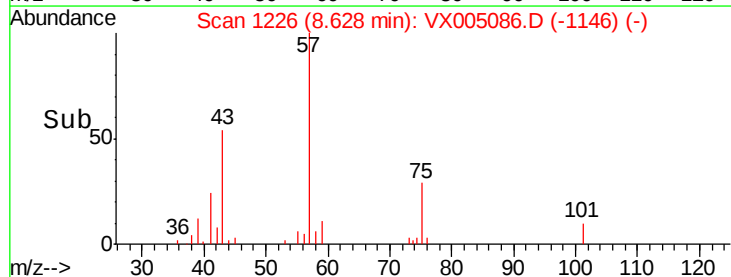
8.55

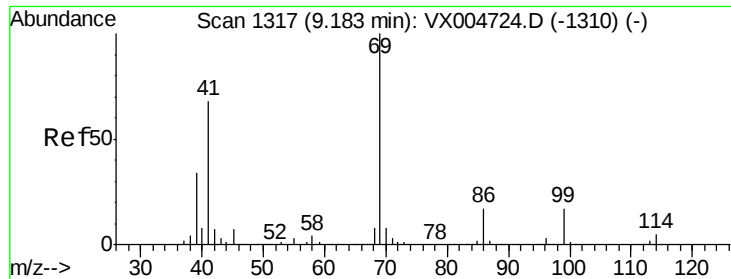
8.60

8.65

8.70

Time-->





#56

Ethyl methacrylate

Concen: 2.914 ug/l

RT: 9.38 min Scan# 1349

Delta R.T. 0.20 min

Lab File: VX005086.D

Acq: 06 Oct 2018 00:12

Instrument :

MSVOA_X

ClientSampleId :

PB113539ZHE#01

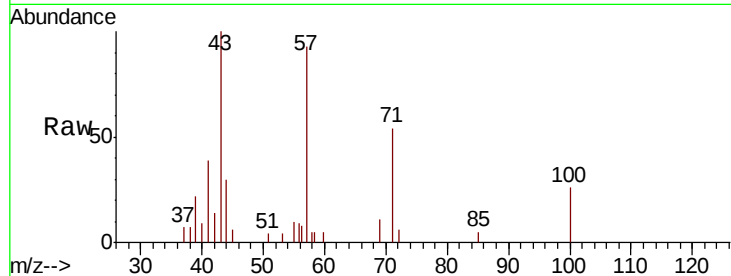
Tot Ion: 69 Resp: 264

Ion Ratio Lower Upper

69 100

41 190.2 56.9 85.3#

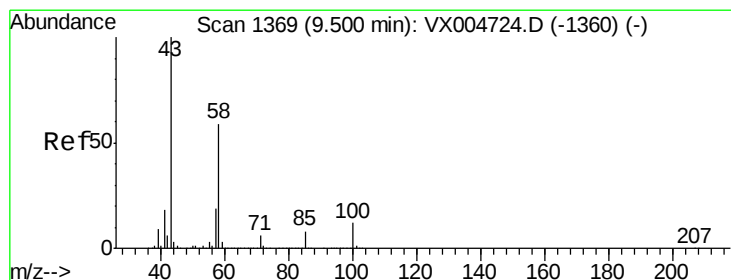
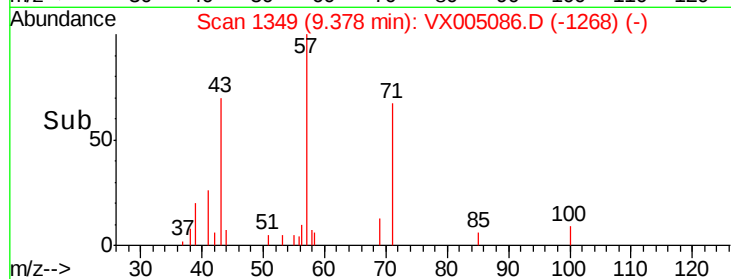
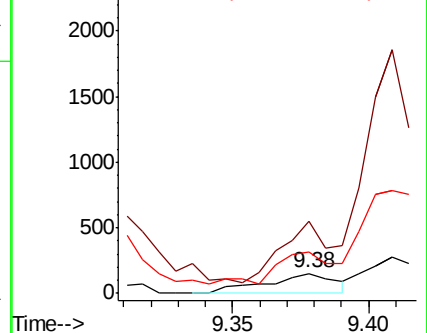
39 99.6 28.4 42.6#



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



#59

2-Hexanone

Concen: 3.403 ug/l

RT: 9.55 min Scan# 1377

Delta R.T. 0.05 min

Lab File: VX005086.D

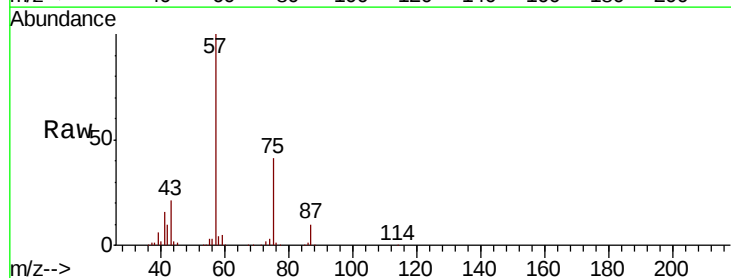
Acq: 06 Oct 2018 00:12

Tgt Ion: 43 Resp: 13415

Ion Ratio Lower Upper

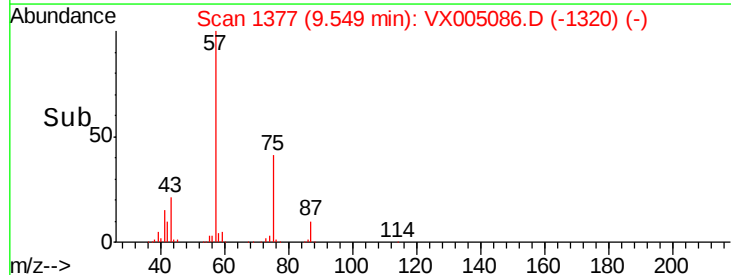
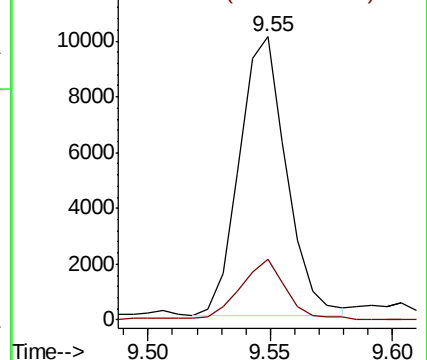
43 100

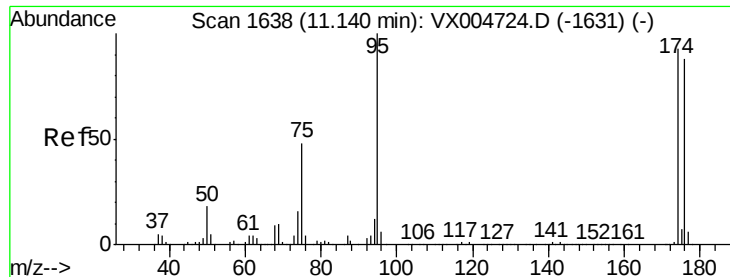
58 21.9 28.4 85.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 52.409 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005086.D

Acq: 06 Oct 2018 00:12

Instrument :

MSVOA_X

ClientSampleId :

PB113539ZHE#01

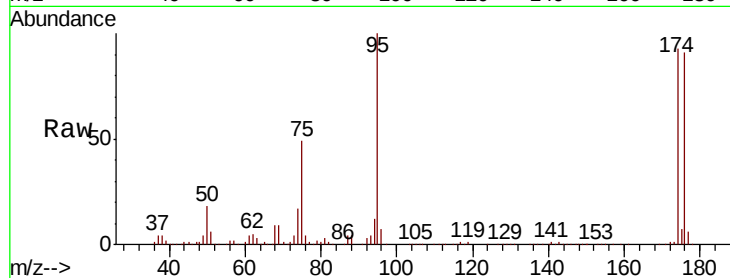
Tot Ion: 95 Resp: 180388

Ion Ratio Lower Upper

95 100

174 91.3 0.0 185.0

176 88.0 0.0 180.2

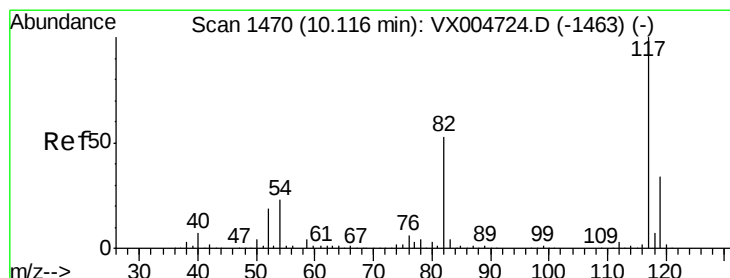
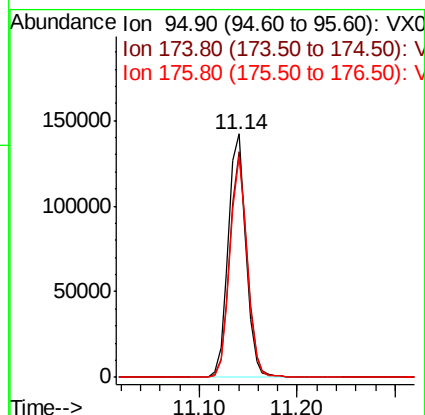
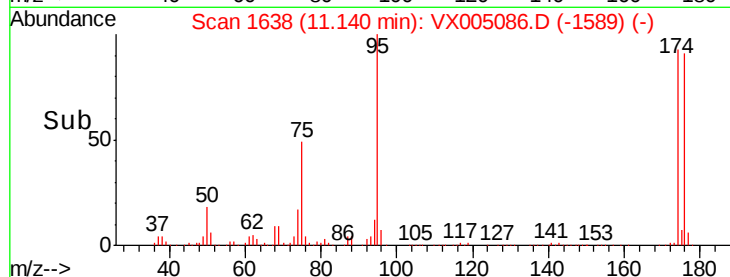


Abundance Ion 94.90 (94.60 to 95.60): VX004724.D (-1631) (-)

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

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

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX005086.D

Acq: 06 Oct 2018 00:12

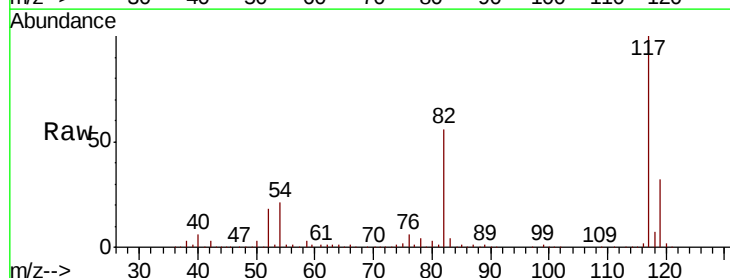
Tgt Ion: 117 Resp: 340130

Ion Ratio Lower Upper

117 100

82 55.5 42.2 63.4

119 31.8 27.4 41.0

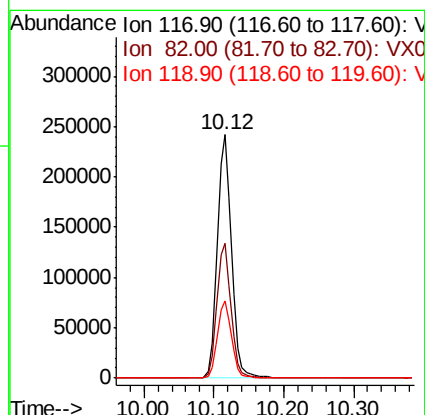
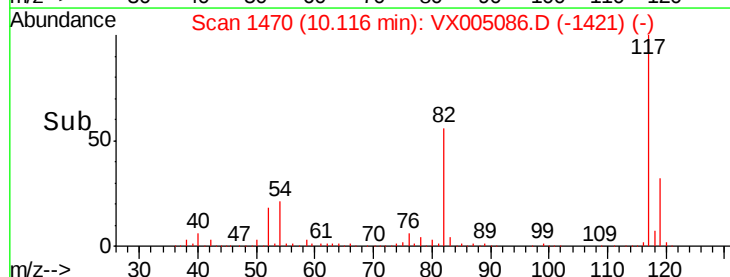


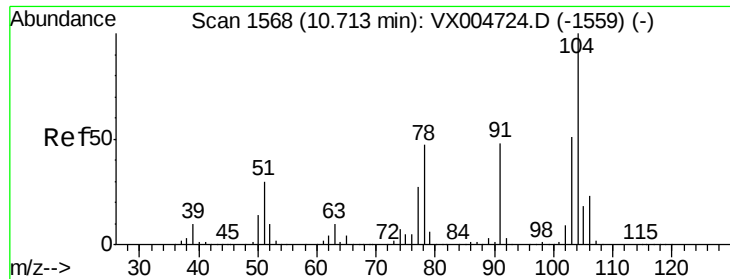
Abundance Ion 116.90 (116.60 to 117.60): VX004724.D (-1463) (-)

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

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

Time-->





#70

Stvrene

Concen: 2.166 ug/l

RT: 10.71 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VX005086.D

Acq: 06 Oct 2018 00:12

Instrument :

MSVOA_X

ClientSampleId :

PB113539ZHE#01

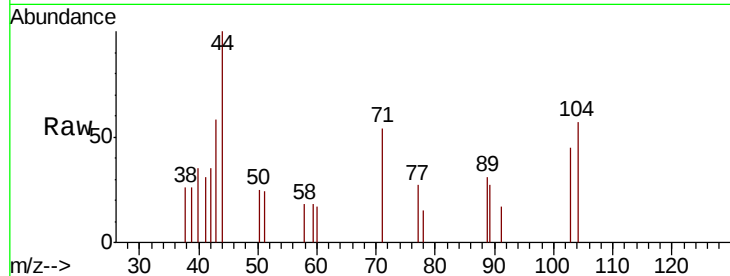
Tot Ion:104 Resp: 249

Ion Ratio Lower Upper

104 100

78 19.7 40.0 60.0#

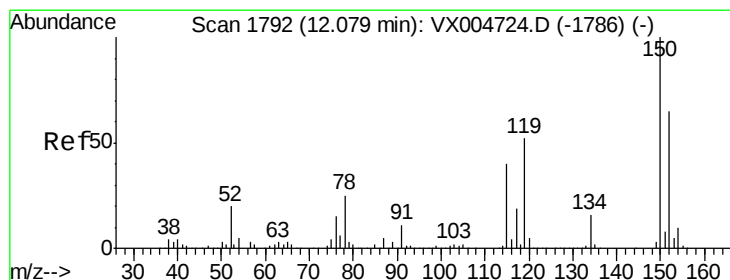
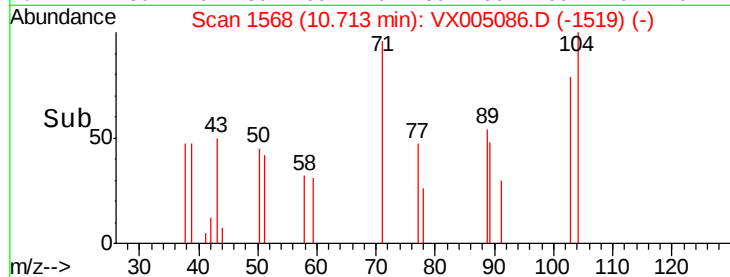
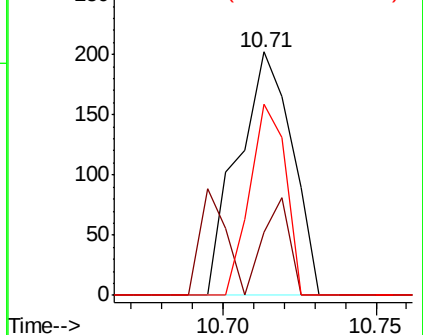
103 51.8 44.3 66.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

Ion 103.00 (102.70 to 103.70): 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: VX005086.D

Acq: 06 Oct 2018 00:12

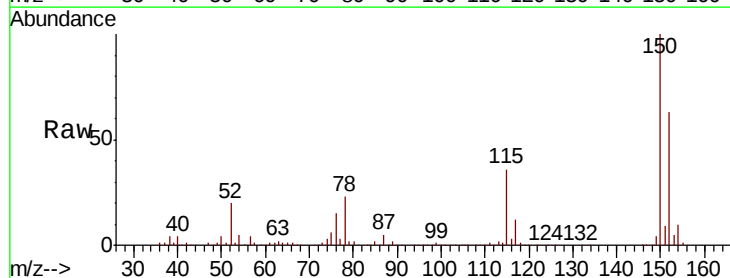
Tgt Ion:152 Resp: 187891

Ion Ratio Lower Upper

152 100

115 55.4 40.2 120.6

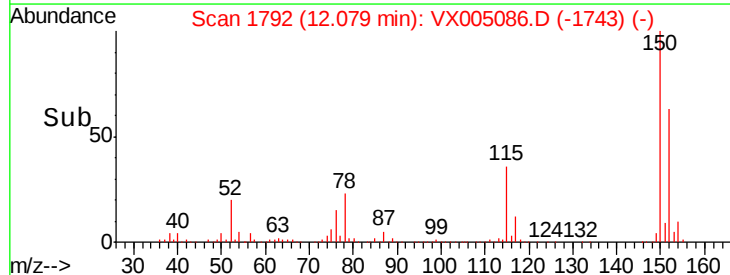
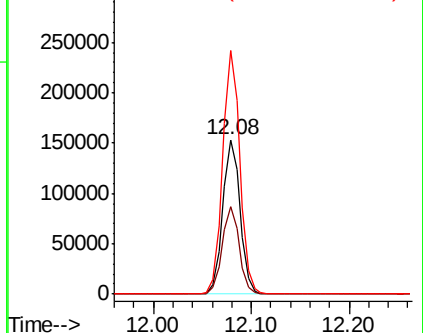
150 156.6 0.0 351.0

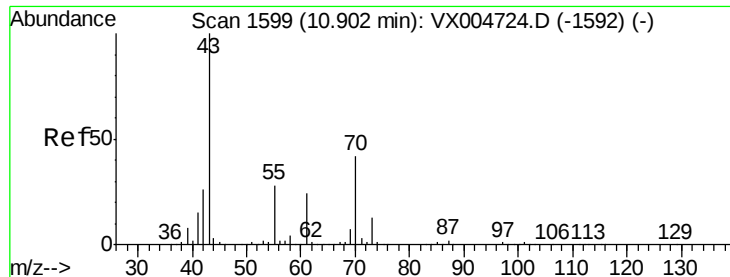


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.761 ug/l

RT: 10.87 min Scan# 1593

Delta R.T. -0.04 min

Lab File: VX005086.D

Acq: 06 Oct 2018 00:12

Instrument :

MSVOA_X

ClientSampleId :

PB113539ZHE#01

Tot Ion: 43 Resp: 89

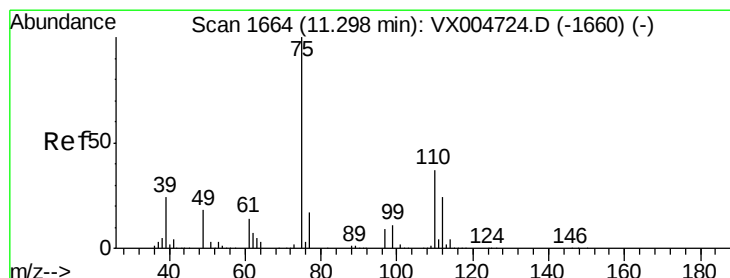
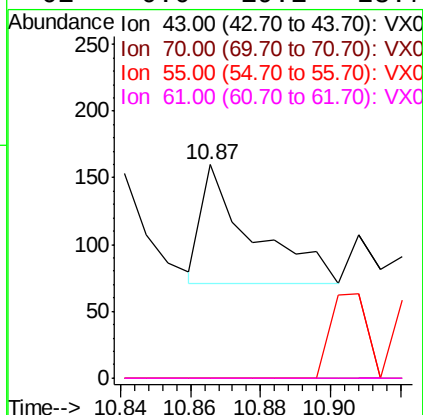
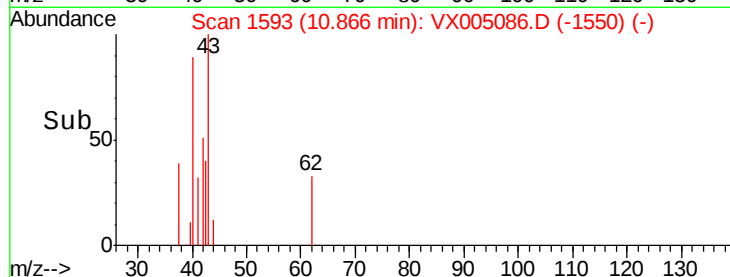
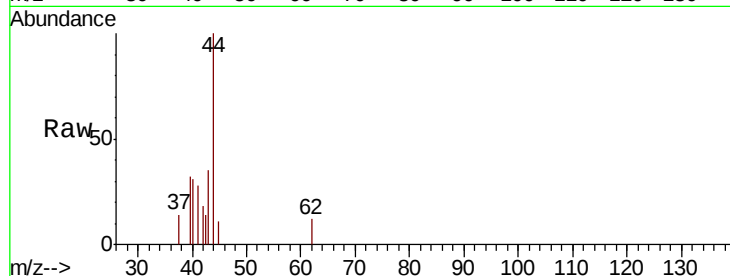
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 0.0 21.6 32.4#

61 0.0 19.1 28.7#



#76

1,2,3-Trichloropropane

Concen: 21.112 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005086.D

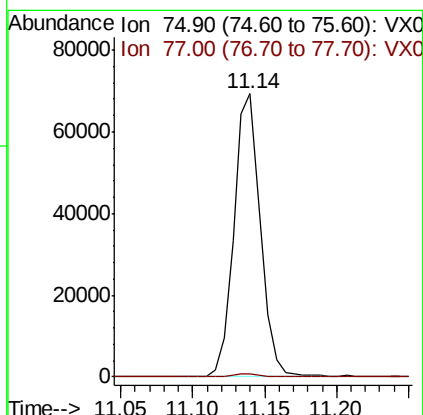
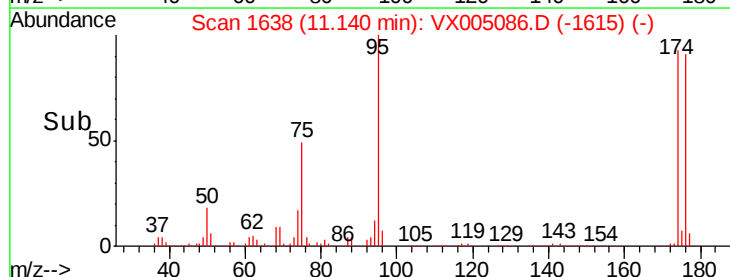
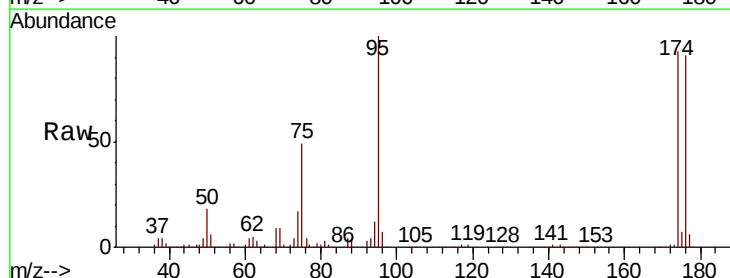
Acq: 06 Oct 2018 00:12

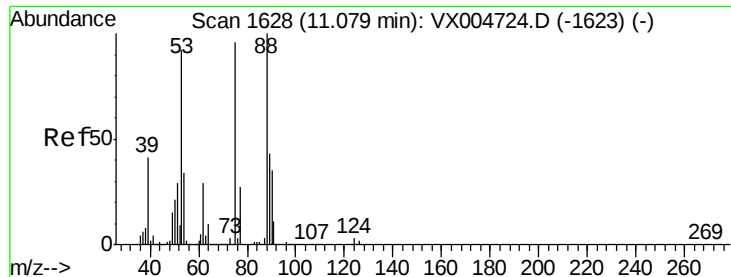
Tgt Ion: 75 Resp: 88909

Ion Ratio Lower Upper

75 100

77 1.4 21.4 64.3#

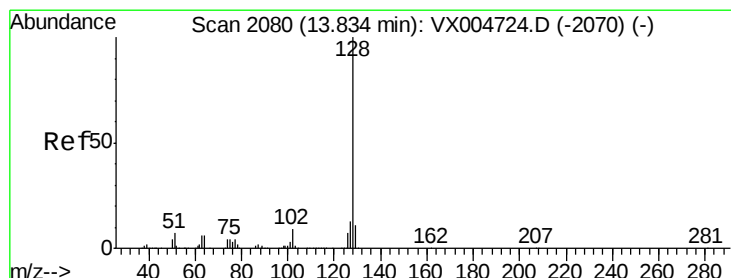
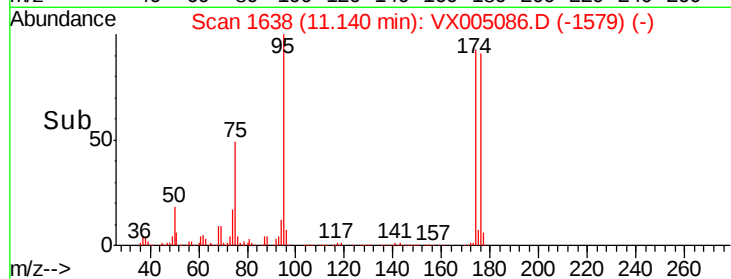
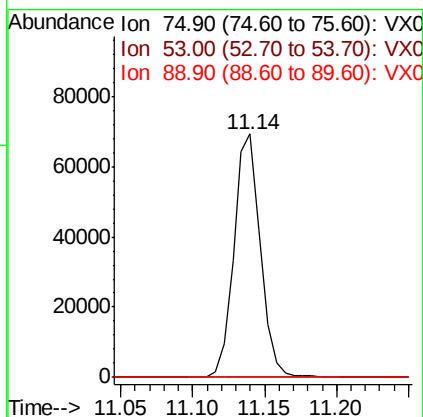
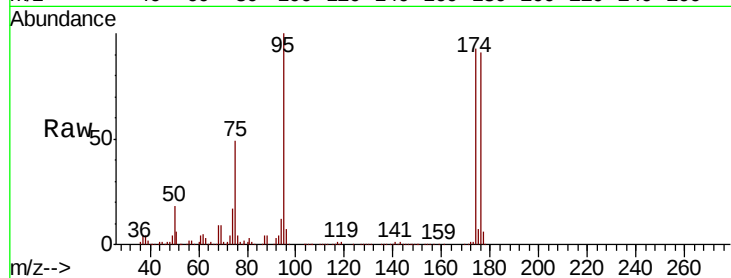




#81
trans-1,4-Dichloro-2-butene
Concen: 57.279 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.06 min
Lab File: VX005086.D
Acq: 06 Oct 2018 00:12

Instrument :
MSVOA_X
ClientSampleId :
PB113539ZHE#01

Tot Ion: 75 Resp: 88909
Ion Ratio Lower Upper
75 100
53 0.3 80.2 120.4#
89 0.0 37.1 55.7#



#95
Naphthalene
Concen: 0.755 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX005086.D
Acq: 06 Oct 2018 00:12

Tgt Ion: 128 Resp: 558
Ion Ratio Lower Upper
128 100
127 9.5 10.4 15.6#
129 3.2 8.7 13.1#

