

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121218\
 Data File : VX006480.D
 Acq On : 13 Dec 2018 07:46
 Operator : JC/MD
 Sample : J6357-13
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SB-09A

Quant Time: Dec 13 08:56:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 30 03:55:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	666283	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1060184	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	984191	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	476153	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	355603	52.28	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.56%	
35) Dibromofluoromethane	5.50	113	317353	46.23	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.46%	
50) Toluene-d8	8.71	98	1265044	50.67	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.34%	
62) 4-Bromofluorobenzene	11.13	95	463927	49.31	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.62%	

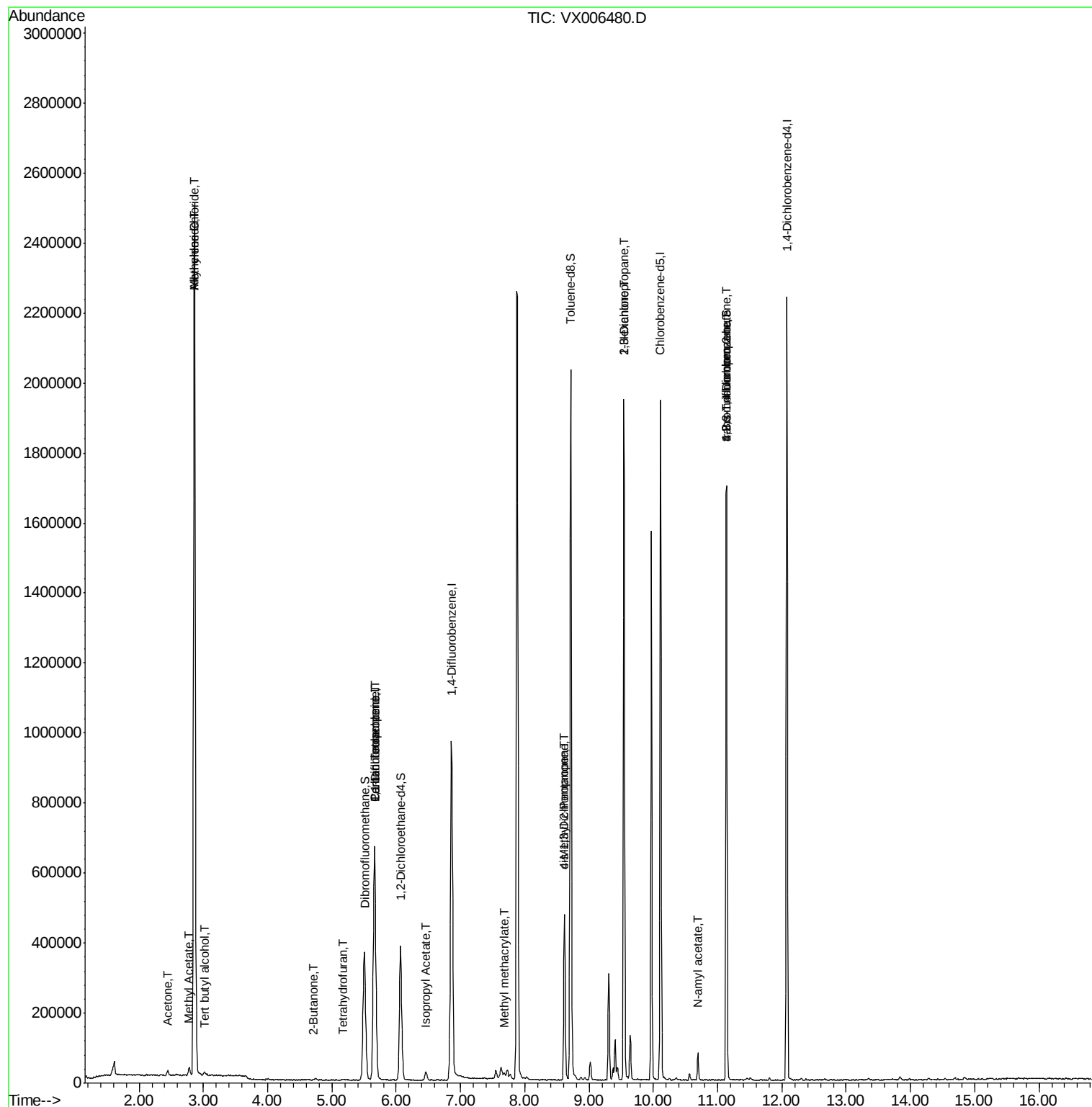
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.02	59	5947	3.197	ug/l #	80
14) Allyl chloride	2.86	41	41185	3.458	ug/l #	28
16) Acetone	2.45	43	14520	4.549	ug/l	93
18) Methyl Acetate	2.78	43	28525	2.672	ug/l	91
20) Methylene Chloride	2.86	84	1177047	173.265	ug/l	94
25) 2-Butanone	4.71	43	2510	0.551	ug/l	90
29) Tetrahydrofuran	5.17	42	1730	0.547	ug/l	94
36) 1,1-Dichloropropene	5.66	75	42502	4.761	ug/l #	49
38) Carbon Tetrachloride	5.67	117	64706	6.161	ug/l #	16
43) Isopropyl Acetate	6.46	43	31234	1.874	ug/l	95
48) Methyl methacrylate	7.68	41	16646	2.053	ug/l #	13
51) 4-Methyl-2-Pentanone	8.62	43	150980	15.558	ug/l #	49
54) cis-1,3-Dichloropropene	8.62	75	85356	7.395	ug/l #	58
57) 1,3-Dichloropropane	9.54	76	18324	1.621	ug/l #	46
59) 2-Hexanone	9.54	43	210514	28.394	ug/l #	52
74) N-amyl acetate	10.69	43	16487	1.164	ug/l #	56
76) 1,2,3-Trichloropropane	11.13	75	213101	23.187	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	213101	54.414	ug/l #	15

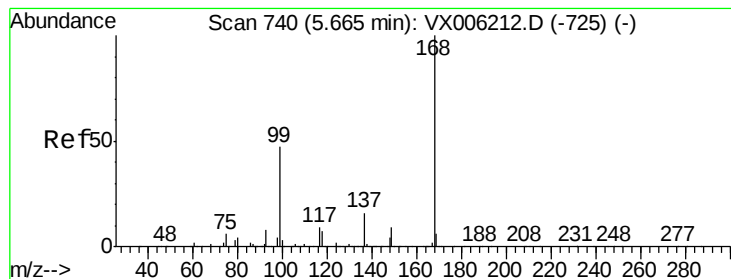
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX006480.D

Acq: 13 Dec 2018 07:46

Instrument :

MSVOA_X

ClientSampleId :

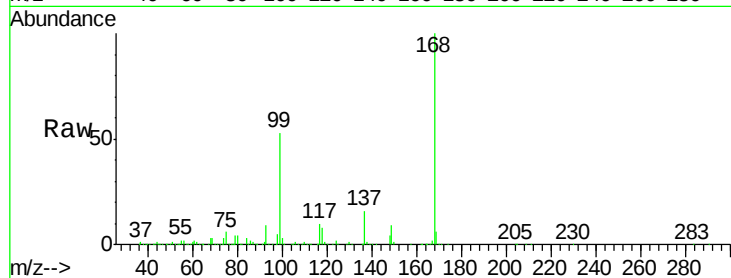
SB-09A

Tgt Ion:168 Resp: 666283

Ion Ratio Lower Upper

168 100

99 53.4 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

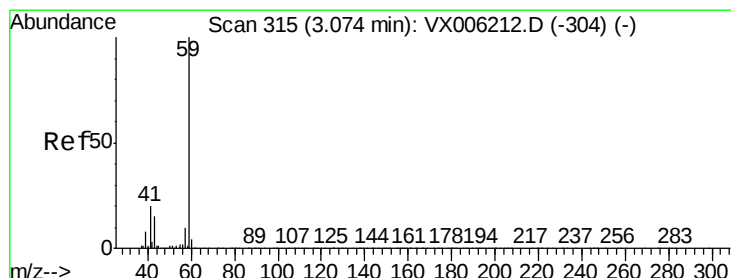
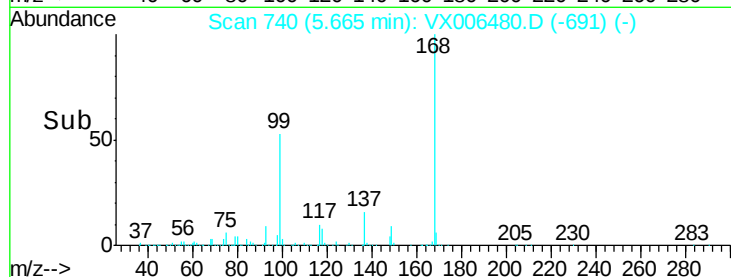
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 3.197 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.05 min

Lab File: VX006480.D

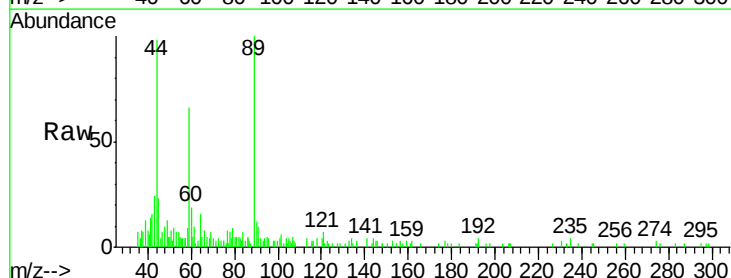
Acq: 13 Dec 2018 07:46

Tgt Ion: 59 Resp: 5947

Ion Ratio Lower Upper

59 100

57 2.6 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.02

2500

2000

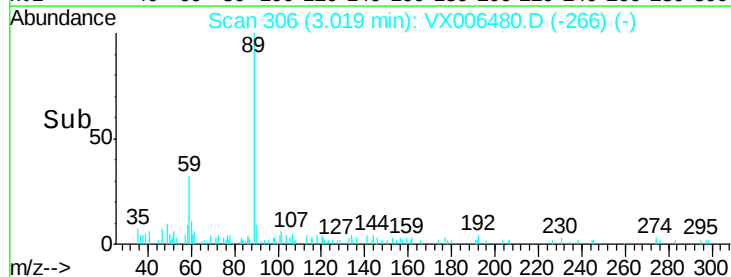
1500

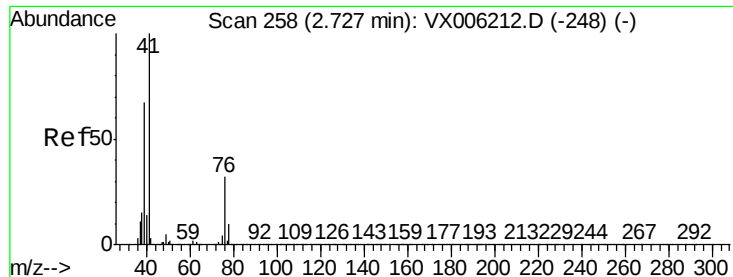
1000

500

0

Time--> 2.90 3.00 3.10

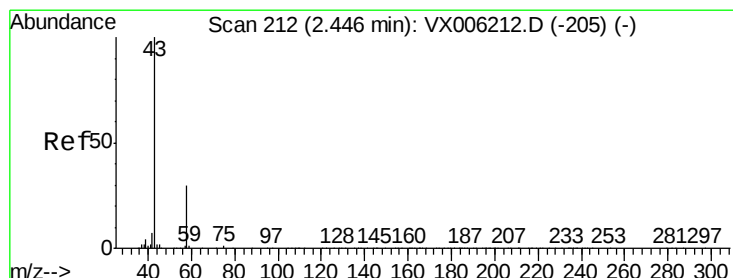
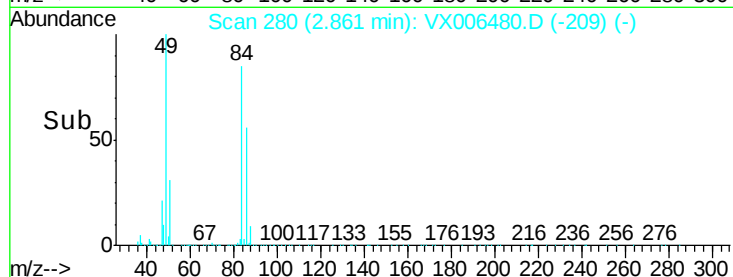
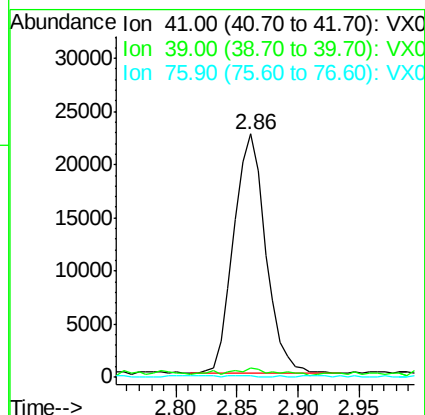
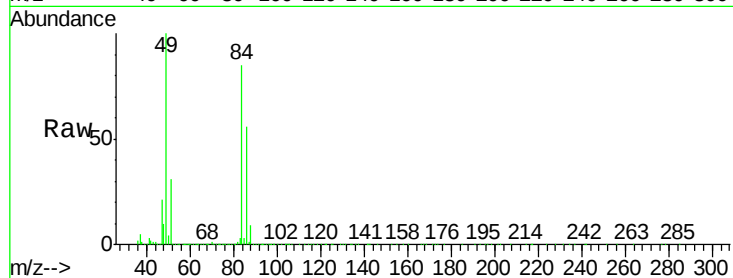




#14
 Allyl chloride
 Concen: 3.458 ug/l
 RT: 2.86 min Scan# 280
 Delta R.T. 0.13 min
 Lab File: VX006480.D
 Acq: 13 Dec 2018 07:46

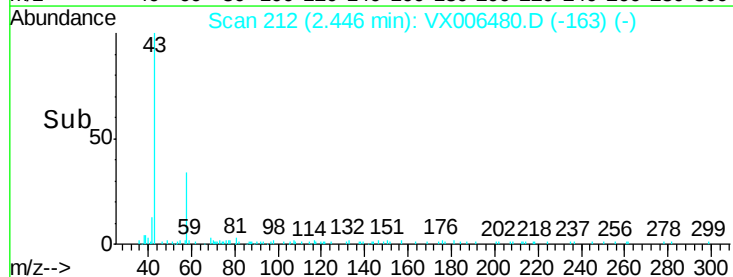
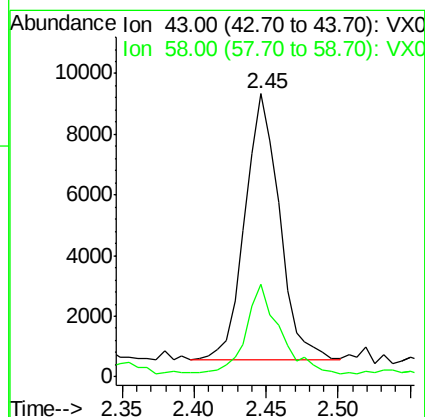
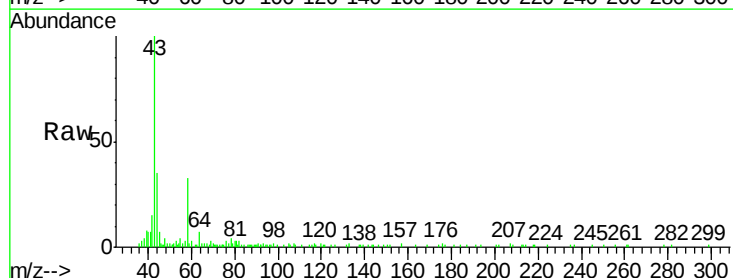
Instrument :
 MSVOA_X
 ClientSampleId :
 SB-09A

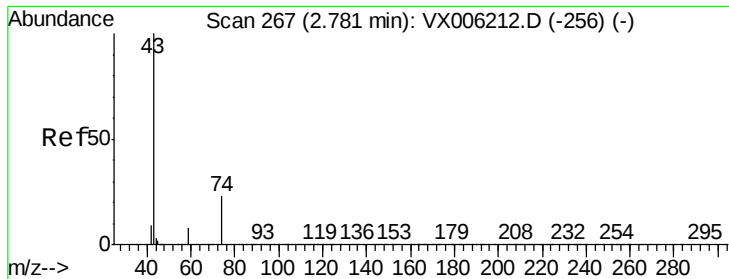
Tgt Ion	Ratio	Lower	Upper
41	100		
39	2.3	52.4	78.6#
76	0.6	25.4	38.0#



#16
 Acetone
 Concen: 4.549 ug/l
 RT: 2.45 min Scan# 212
 Delta R.T. 0.00 min
 Lab File: VX006480.D
 Acq: 13 Dec 2018 07:46

Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.7	24.0	36.0

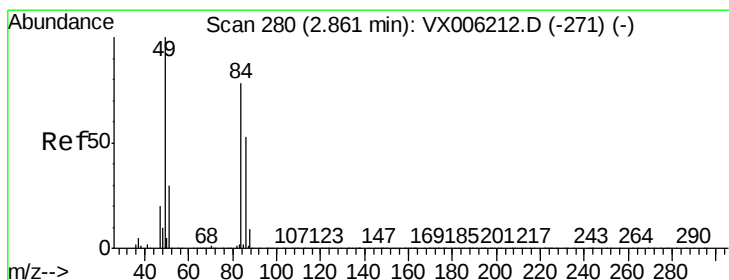
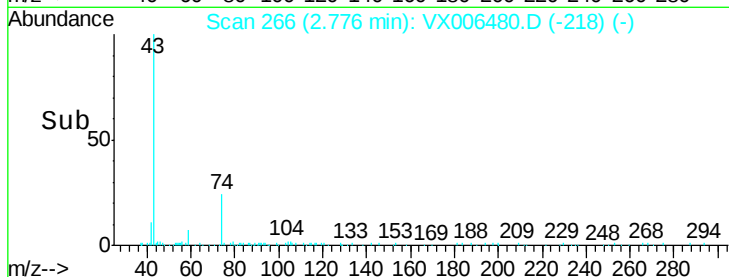
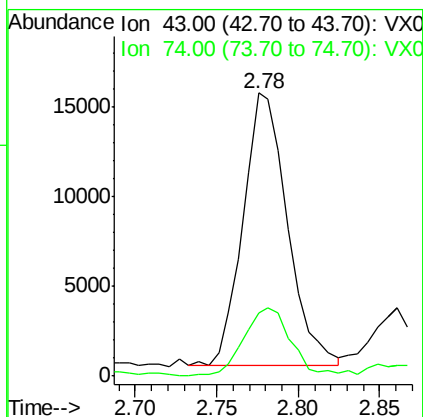
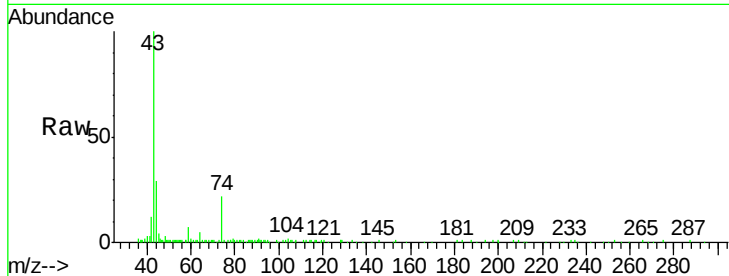




#18
Methyl Acetate
Concen: 2.672 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX006480.D
Acq: 13 Dec 2018 07:46

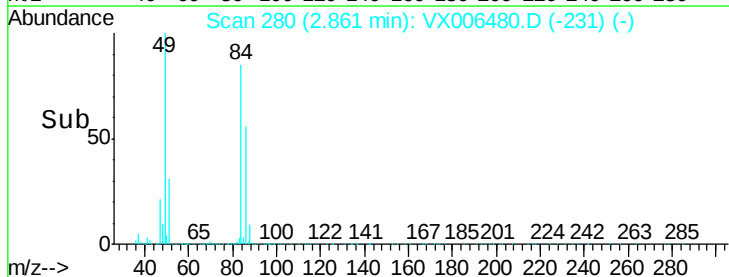
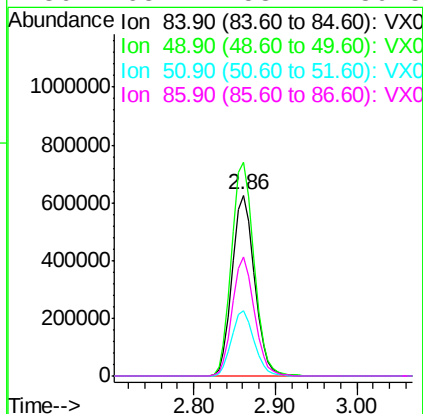
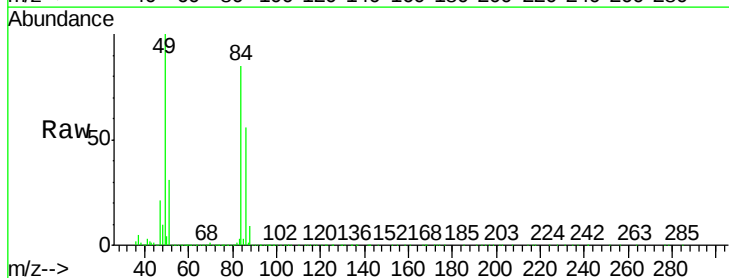
Instrument :
MSVOA_X
ClientSampleId :
SB-09A

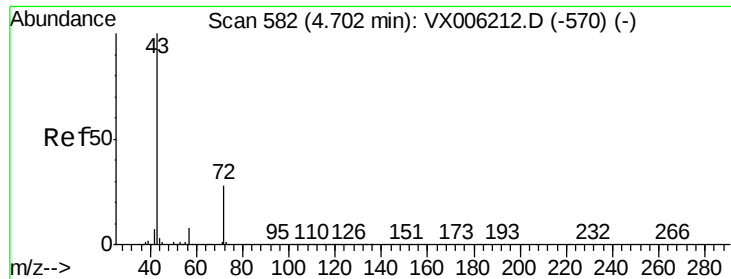
Tgt Ion: 43 Resp: 28525
Ion Ratio Lower Upper
43 100
74 26.7 17.9 26.9



#20
Methylene Chloride
Concen: 173.265 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX006480.D
Acq: 13 Dec 2018 07:46

Tgt Ion: 84 Resp: 1177047
Ion Ratio Lower Upper
84 100
49 118.1 102.2 153.4
51 36.4 31.1 46.7
86 65.7 53.7 80.5





#25

2-Butanone

Concen: 0.551 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX006480.D

Acq: 13 Dec 2018 07:46

Instrument :

MSVOA_X

ClientSampled :

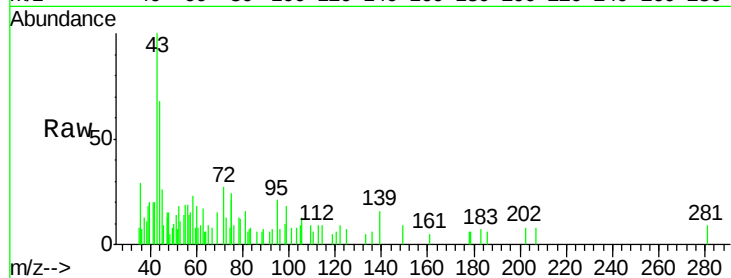
SB-09A

Tgt Ion: 43 Resp: 2510

Ion Ratio Lower Upper

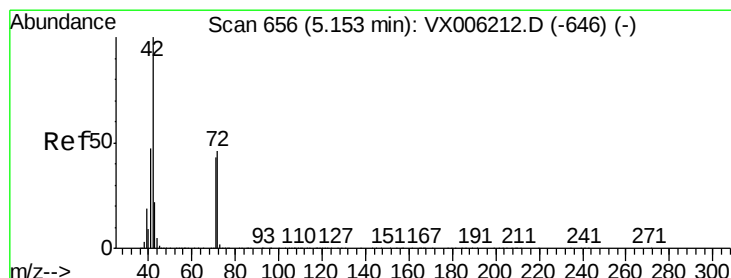
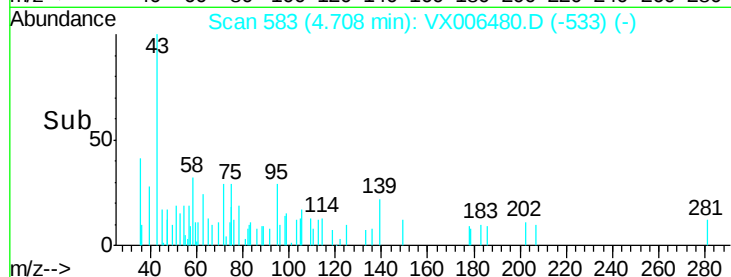
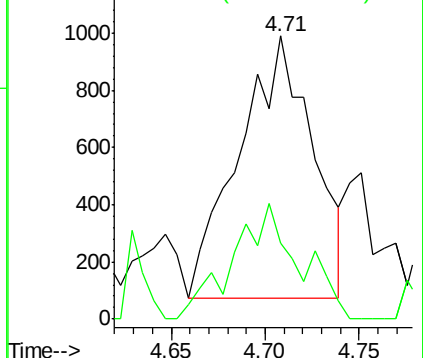
43 100

72 23.1 22.6 33.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.547 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX006480.D

Acq: 13 Dec 2018 07:46

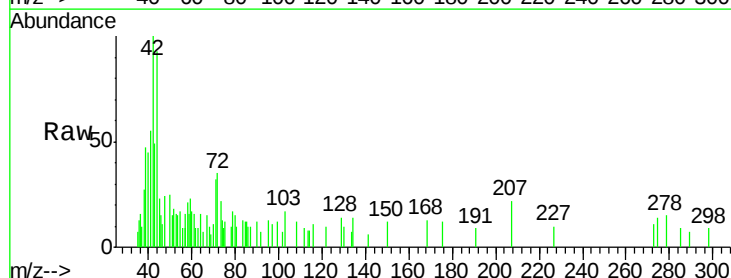
Tgt Ion: 42 Resp: 1730

Ion Ratio Lower Upper

42 100

72 40.9 37.8 56.8

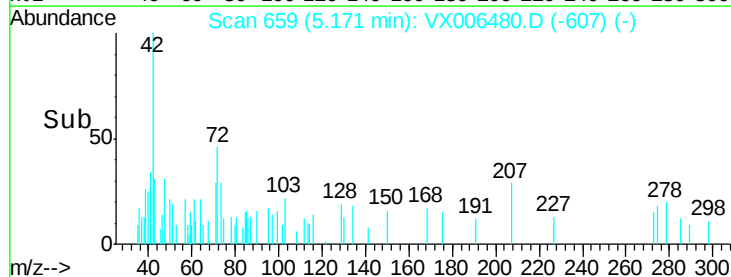
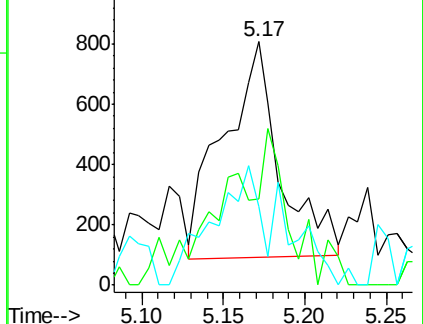
71 45.5 35.2 52.8

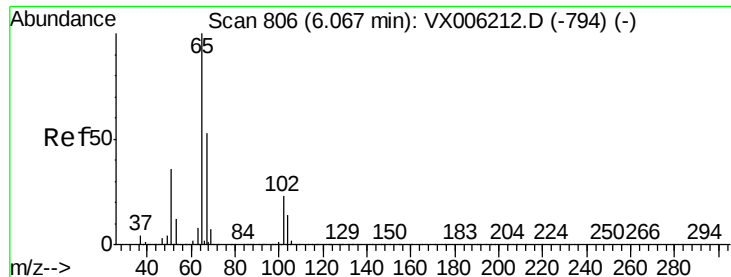


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 52.282 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX006480.D

Acq: 13 Dec 2018 07:46

Instrument :

MSVOA_X

ClientSampleId :

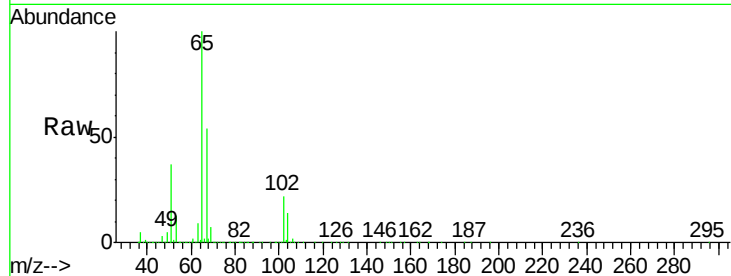
SB-09A

Tgt Ion: 65 Resp: 355603

Ion Ratio Lower Upper

65 100

67 53.2 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

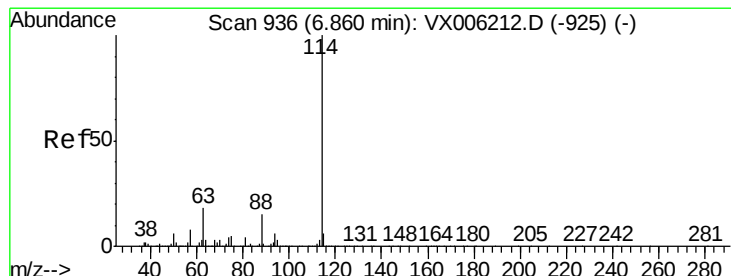
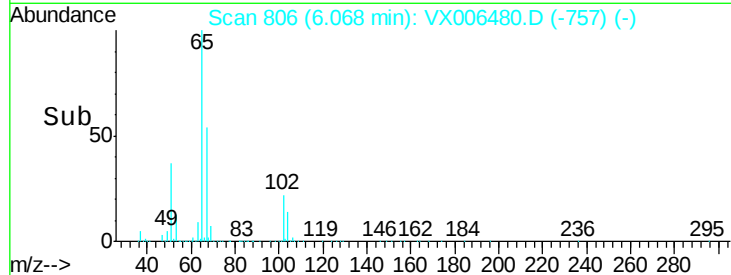
150000

100000

50000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006480.D

Acq: 13 Dec 2018 07:46

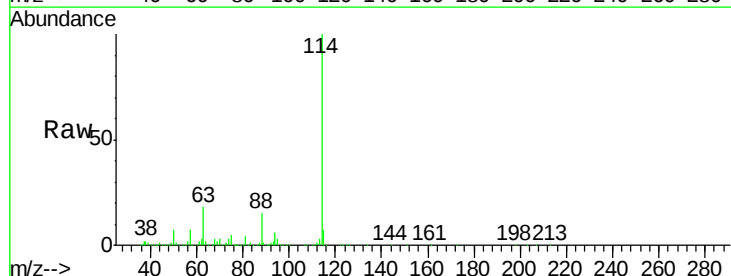
Tgt Ion: 114 Resp: 1060184

Ion Ratio Lower Upper

114 100

63 18.3 0.0 36.6

88 14.5 0.0 29.0



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

6.86

600000

500000

400000

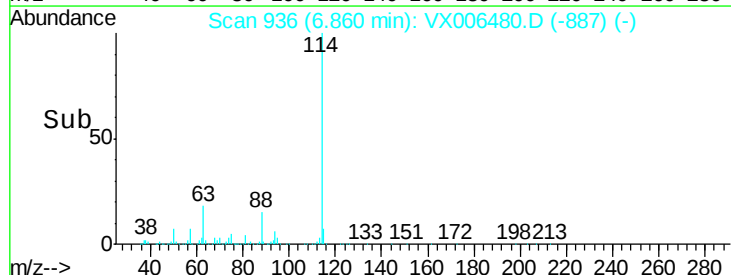
300000

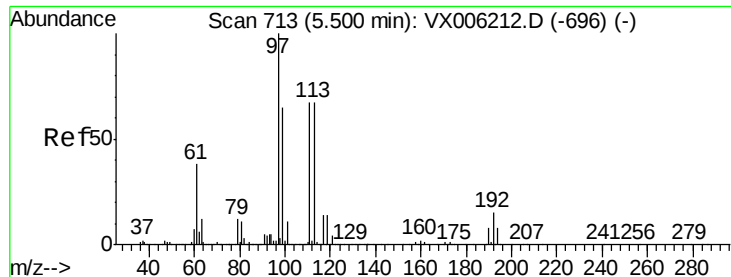
200000

100000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 46.233 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX006480.D

Acq: 13 Dec 2018 07:46

Instrument :

MSVOA_X

ClientSampled :

SB-09A

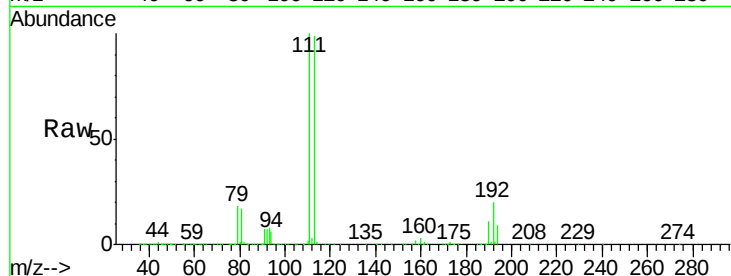
Tgt Ion:113 Resp: 317353

Ion Ratio Lower Upper

113 100

111 102.2 81.1 121.7

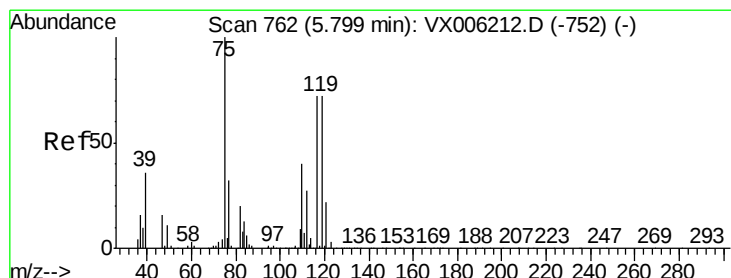
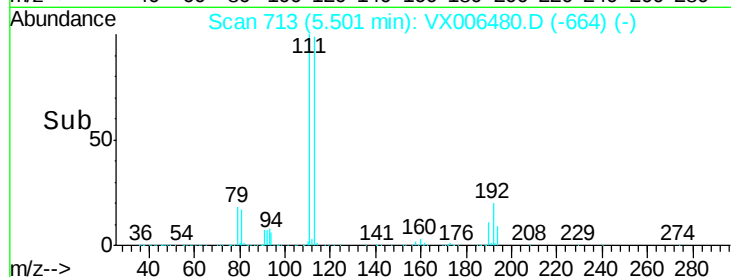
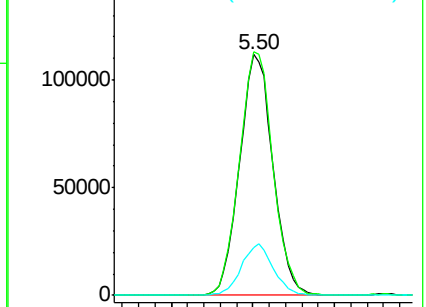
192 20.5 18.2 27.2



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: 4.761 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006480.D

Acq: 13 Dec 2018 07:46

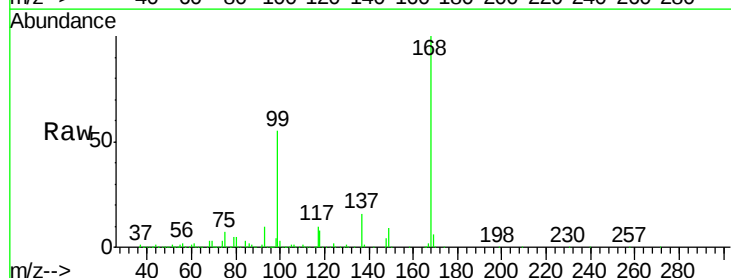
Tgt Ion: 75 Resp: 42502

Ion Ratio Lower Upper

75 100

110 11.0 20.4 61.3#

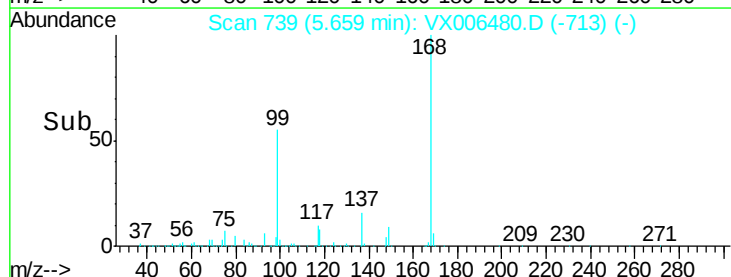
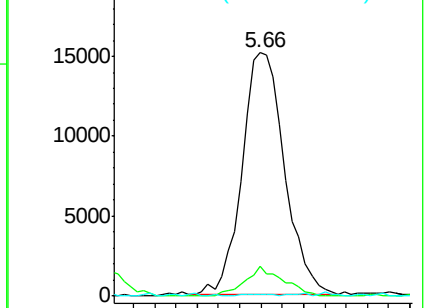
77 0.6 24.9 37.3#

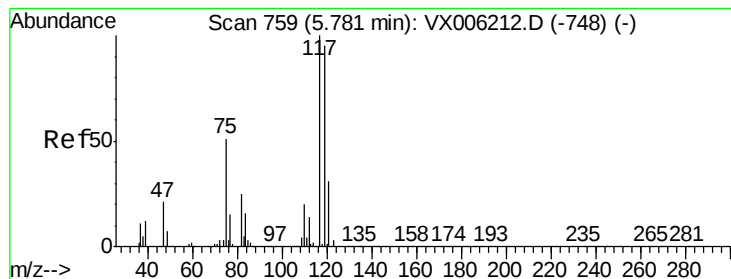


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.161 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006480.D

Acq: 13 Dec 2018 07:46

Instrument :

MSVOA_X

ClientSampled :

SB-09A

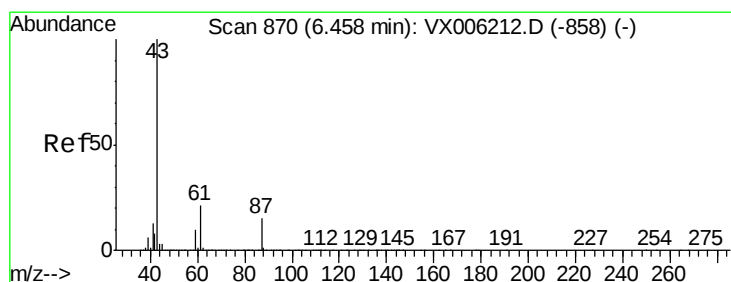
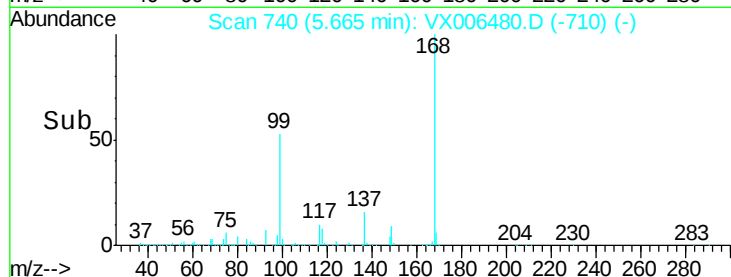
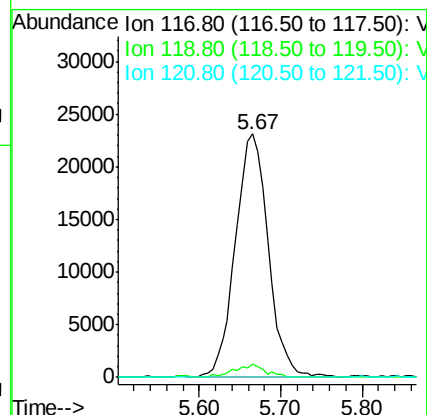
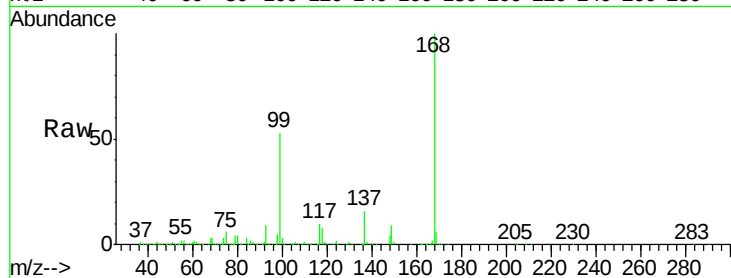
Tgt Ion: 117 Resp: 64706

Ion Ratio Lower Upper

117 100

119 5.0 75.8 113.8#

121 0.0 24.6 37.0#



#43

Isopropyl Acetate

Concen: 1.874 ug/l

RT: 6.46 min Scan# 870

Delta R.T. 0.00 min

Lab File: VX006480.D

Acq: 13 Dec 2018 07:46

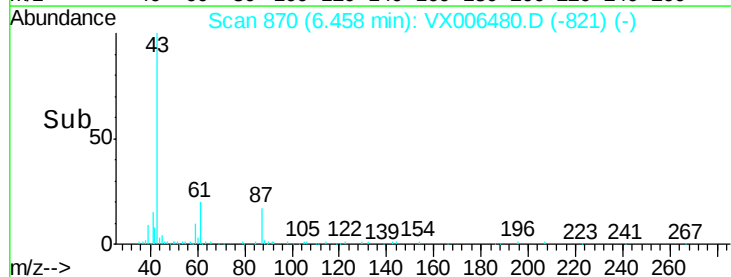
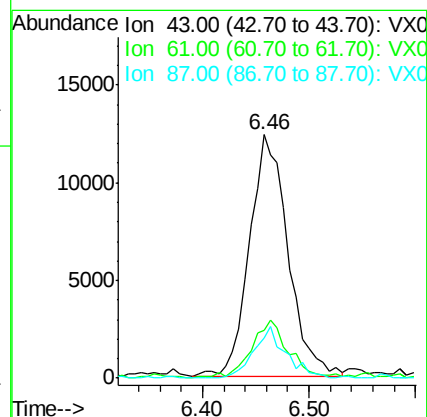
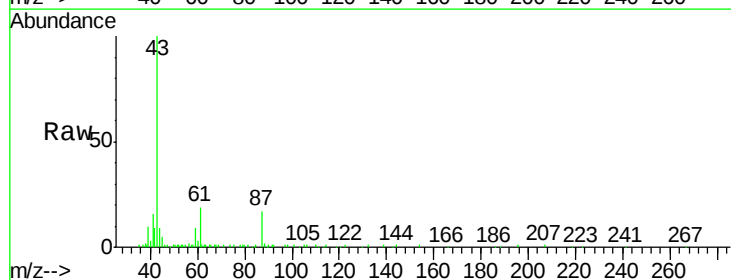
Tgt Ion: 43 Resp: 31234

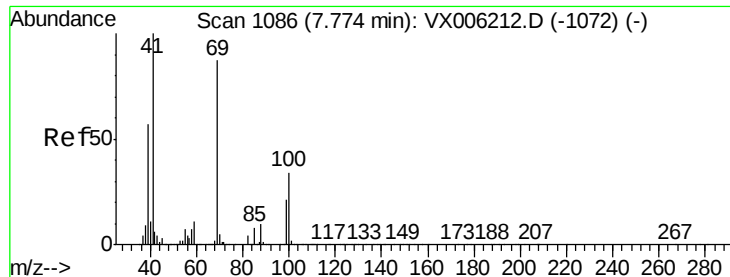
Ion Ratio Lower Upper

43 100

61 23.1 16.8 25.2

87 17.7 11.9 17.9

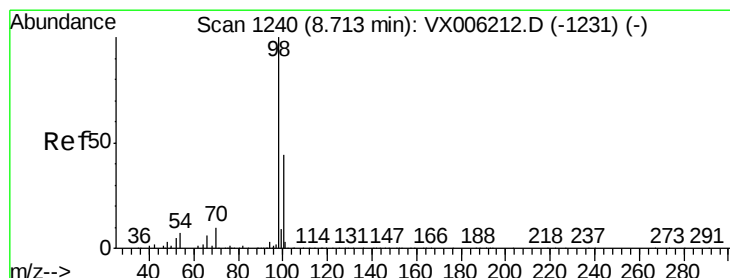
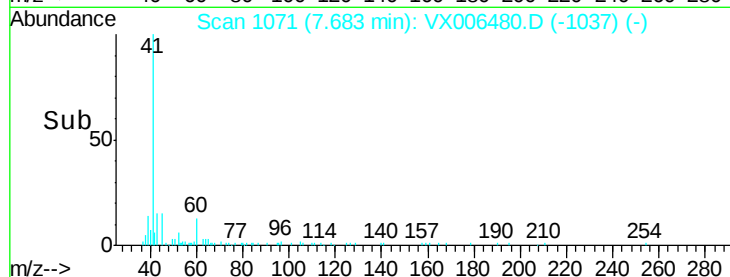
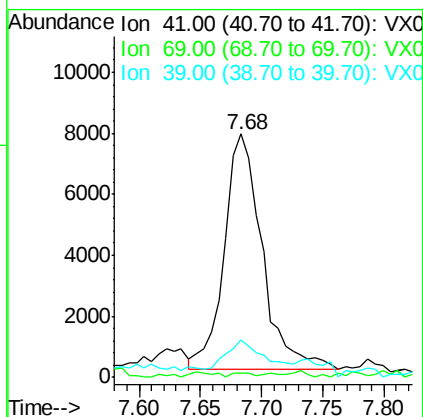
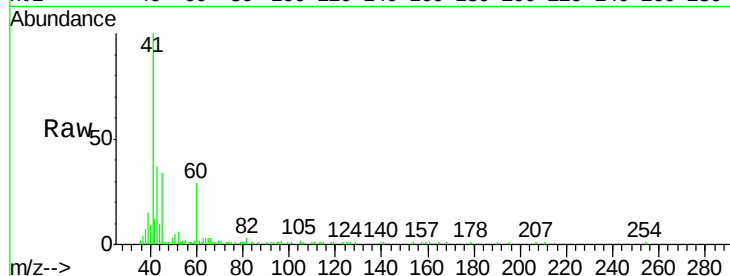




#48
Methyl methacrylate
Concen: 2.053 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX006480.D
Acq: 13 Dec 2018 07:46

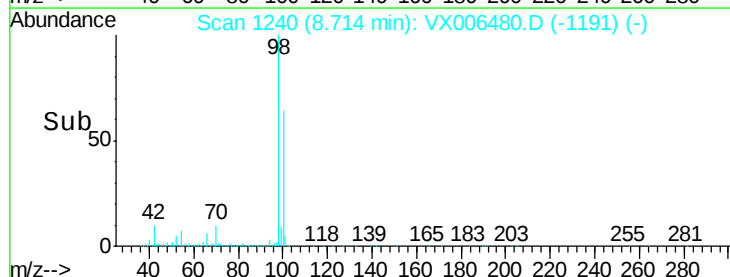
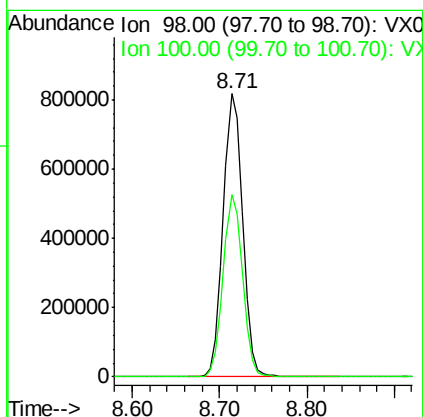
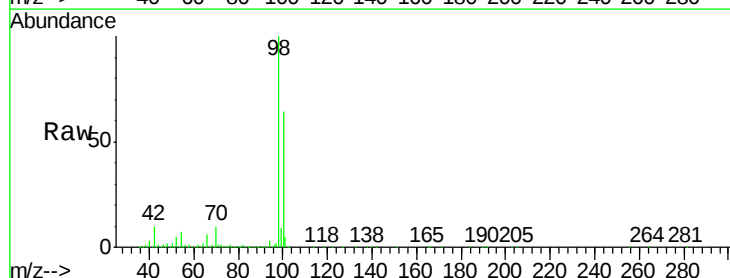
Instrument :
MSVOA_X
ClientSampled :
SB-09A

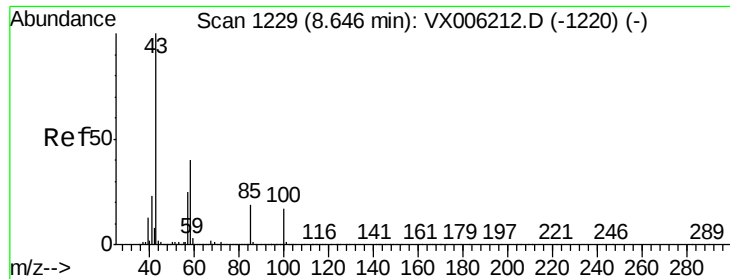
Tgt Ion: 41 Resp: 16646
Ion Ratio Lower Upper
41 100
69 1.1 70.3 105.5#
39 0.0 45.3 67.9#



#50
Toluene-d8
Concen: 50.666 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX006480.D
Acq: 13 Dec 2018 07:46

Tgt Ion: 98 Resp: 1265044
Ion Ratio Lower Upper
98 100
100 64.1 52.2 78.2





#51

4-Methyl-2-Pentanone

Concen: 15.558 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX006480.D

Acq: 13 Dec 2018 07:46

Instrument :

MSVOA_X

ClientSampled :

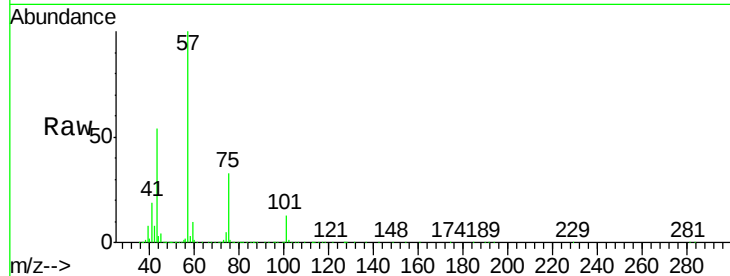
SB-09A

Tgt Ion: 43 Resp: 150980

Ion Ratio Lower Upper

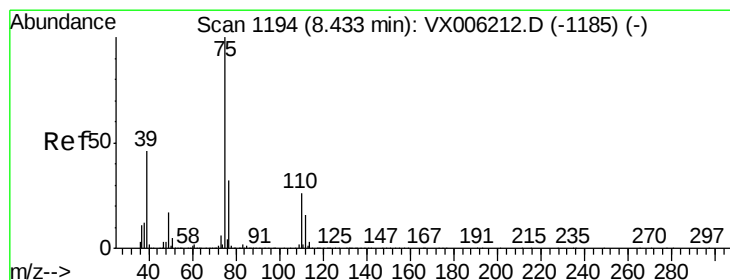
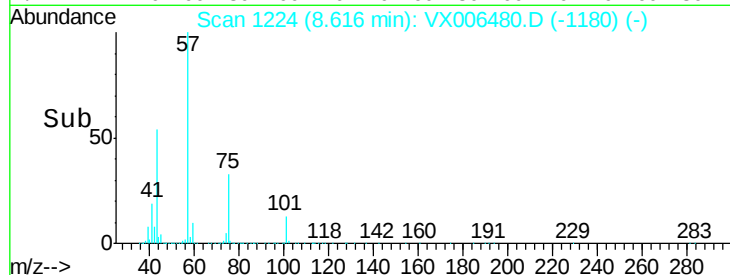
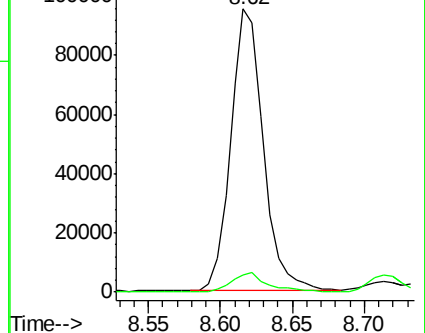
43 100

58 7.7 31.3 46.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#54

cis-1,3-Dichloropropene

Concen: 7.395 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX006480.D

Acq: 13 Dec 2018 07:46

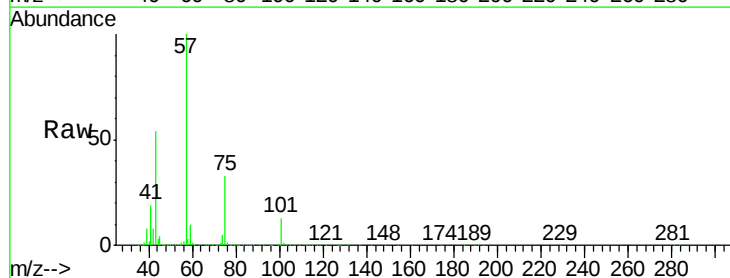
Tgt Ion: 75 Resp: 85356

Ion Ratio Lower Upper

75 100

77 0.2 25.6 38.4#

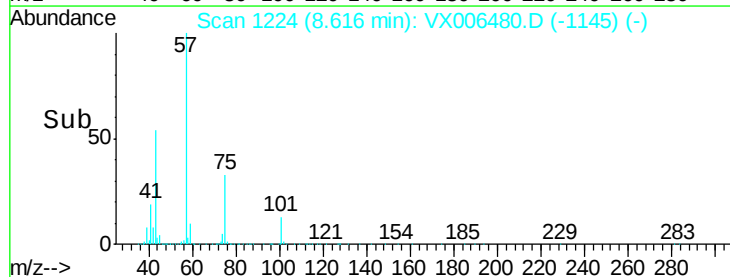
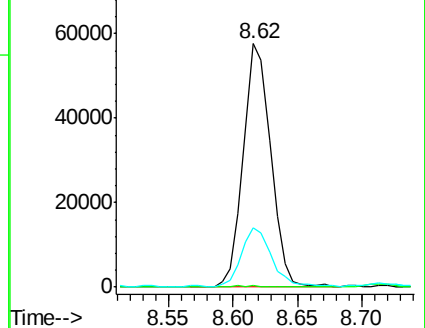
39 24.5 36.5 54.7#

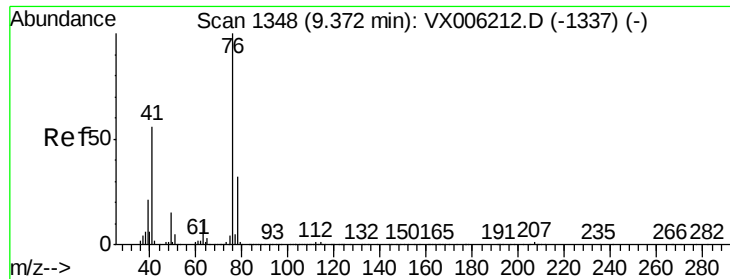


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0





#57

1,3-Dichloropropane

Concen: 1.621 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX006480.D

Acq: 13 Dec 2018 07:46

Instrument :

MSVOA_X

ClientSampleId :

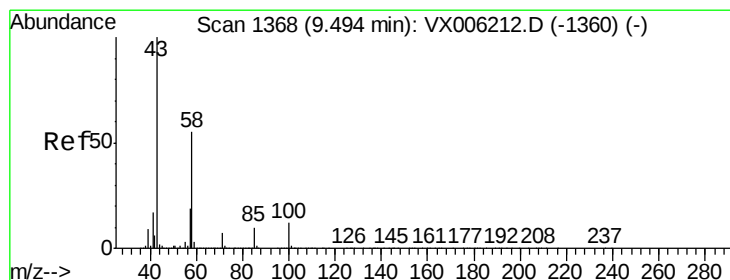
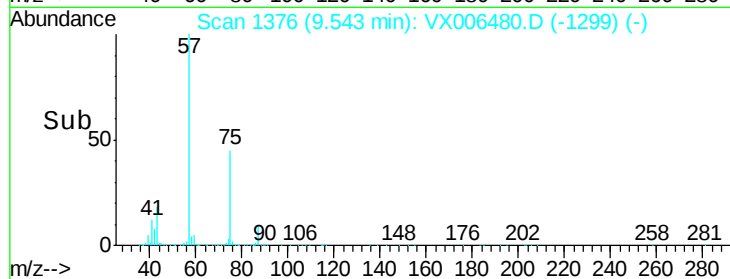
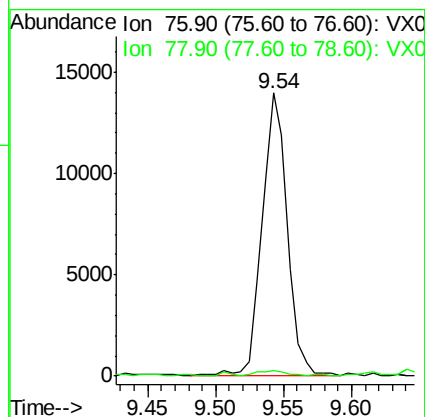
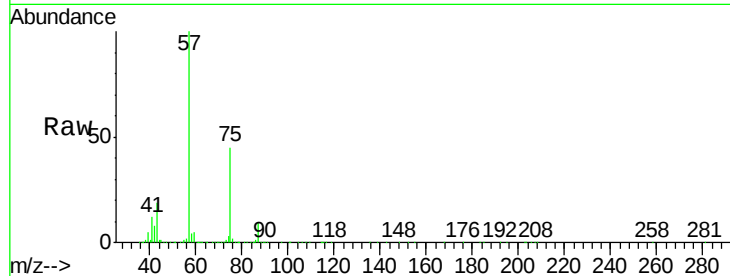
SB-09A

Tgt Ion: 76 Resp: 18324

Ion Ratio Lower Upper

76 100

78 2.3 26.1 39.1#



#59

2-Hexanone

Concen: 28.394 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX006480.D

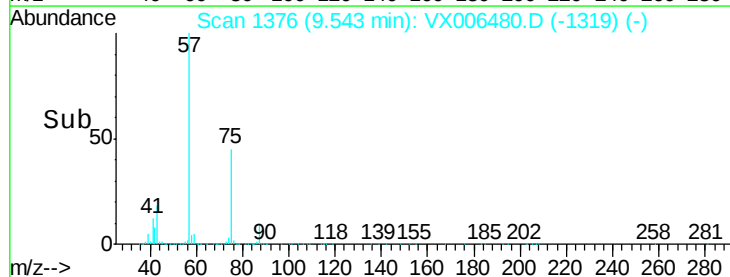
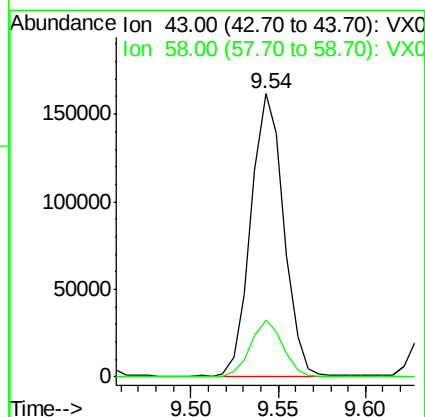
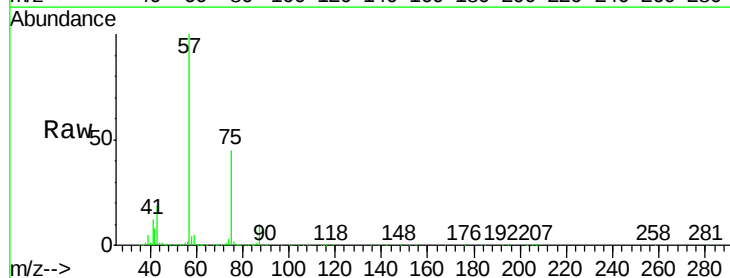
Acq: 13 Dec 2018 07:46

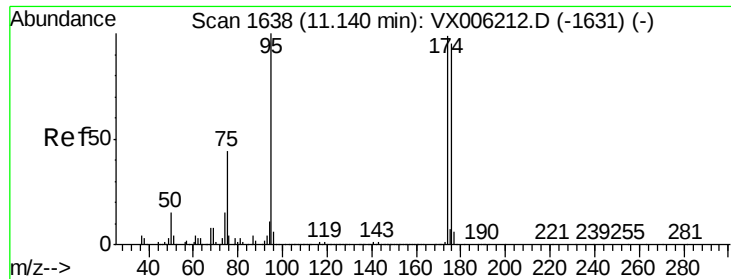
Tgt Ion: 43 Resp: 210514

Ion Ratio Lower Upper

43 100

58 20.5 27.7 83.1#





#62

4-Bromofluorobenzene

Concen: 49.308 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX006480.D

Acq: 13 Dec 2018 07:46

Instrument :

MSVOA_X

ClientSampleId :

SB-09A

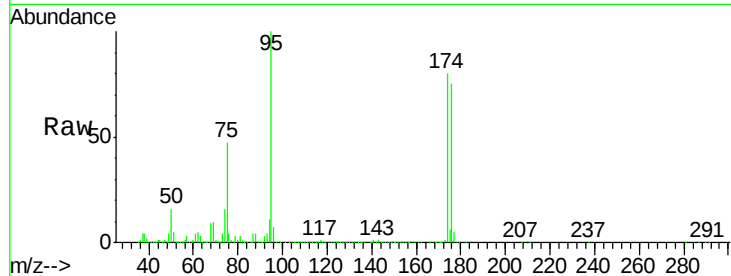
Tgt Ion: 95 Resp: 463927

Ion Ratio Lower Upper

95 100

174 87.1 0.0 187.0

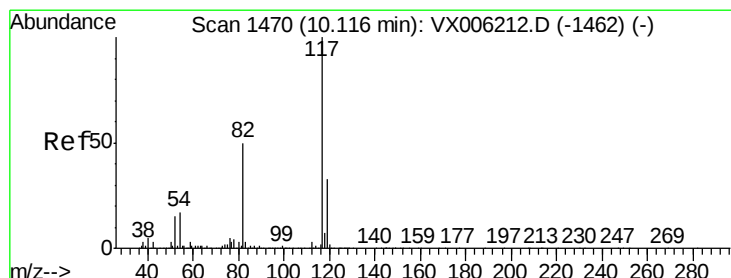
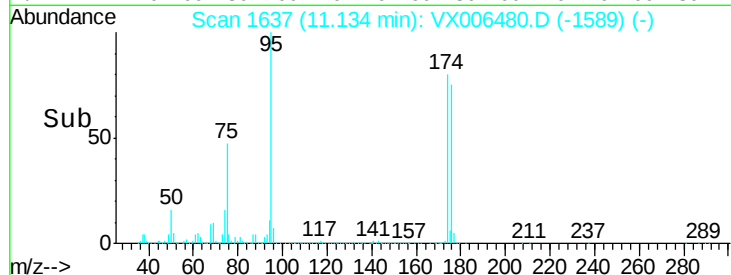
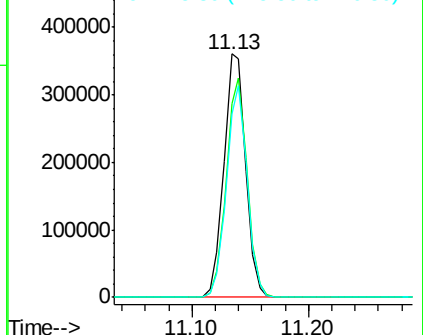
176 83.4 0.0 181.8



Abundance Ion 94.90 (94.60 to 95.60): VX006480.D (-1589) (-)

Ion 173.80 (173.50 to 174.50): VX006480.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX006480.D (-1589) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX006480.D

Acq: 13 Dec 2018 07:46

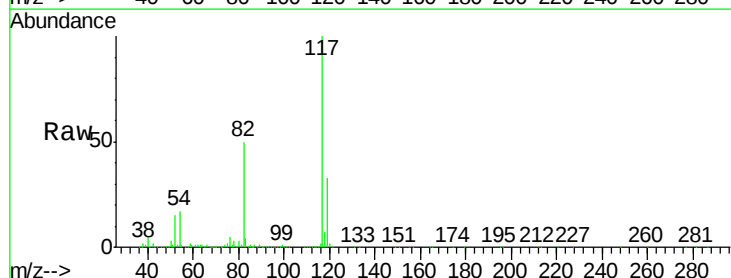
Tgt Ion: 117 Resp: 984191

Ion Ratio Lower Upper

117 100

82 50.5 39.6 59.4

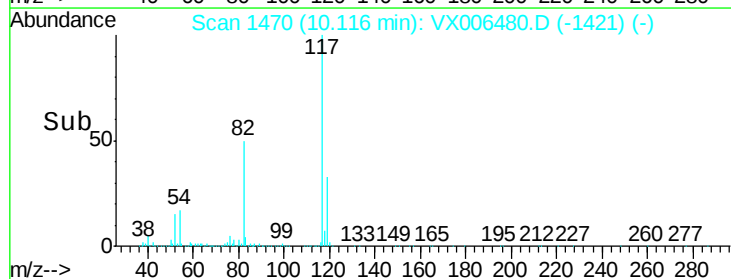
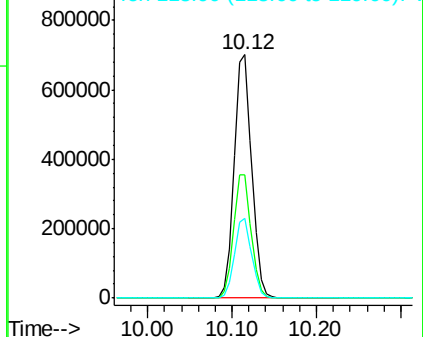
119 32.8 26.3 39.5

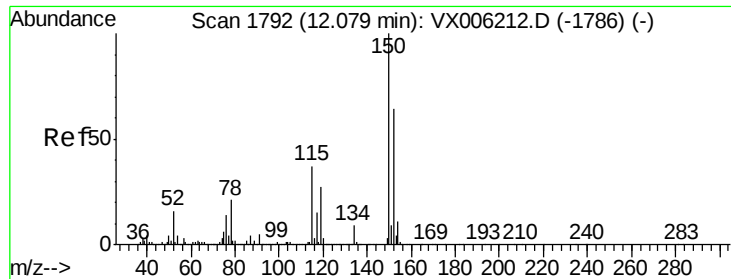


Abundance Ion 116.90 (116.60 to 117.60): VX006480.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX006480.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX006480.D (-1421) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX006480.D

Acq: 13 Dec 2018 07:46

Instrument :

MSVOA_X

ClientSampleId :

SB-09A

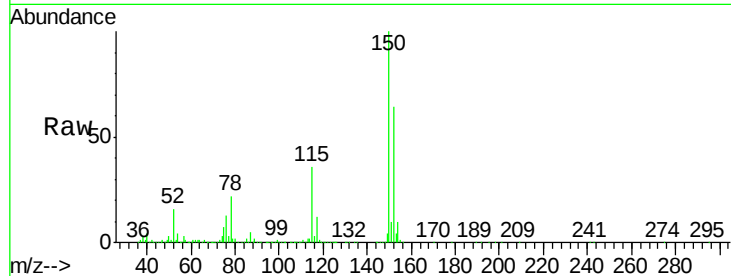
Tgt Ion:152 Resp: 476153

Ion Ratio Lower Upper

152 100

115 56.9 39.0 116.9

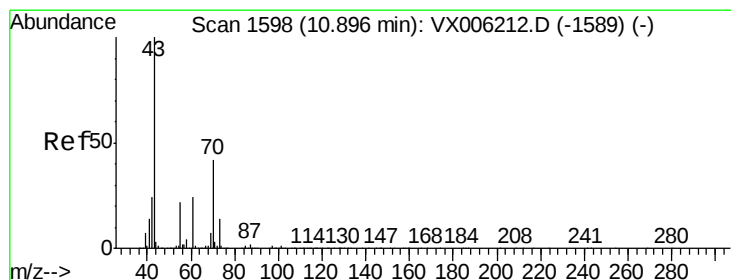
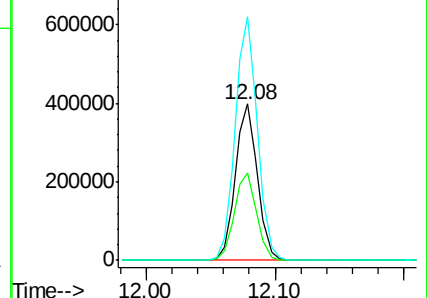
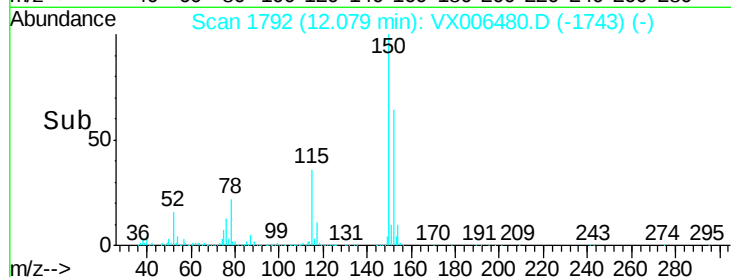
150 157.4 0.0 345.8



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-aryl acetate

Concen: 1.164 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX006480.D

Acq: 13 Dec 2018 07:46

Tgt Ion: 43 Resp: 16487

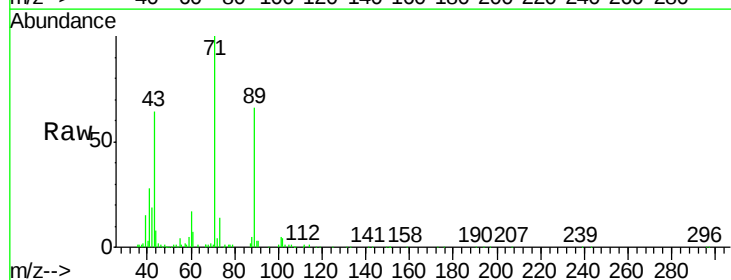
Ion Ratio Lower Upper

43 100

70 3.2 34.1 51.1#

55 7.9 17.8 26.8#

61 11.8 19.7 29.5#

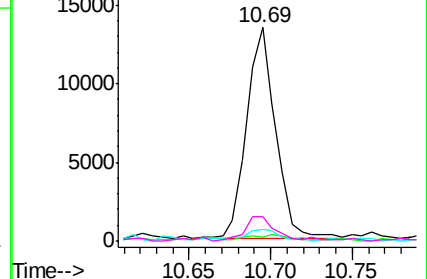
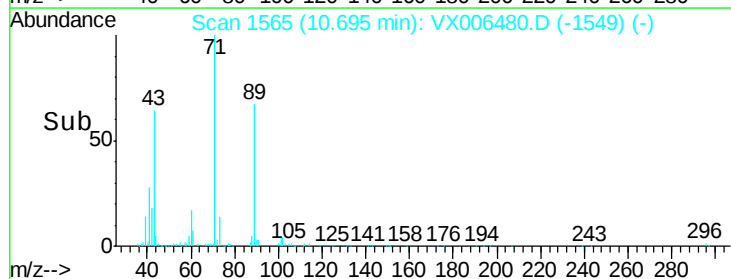


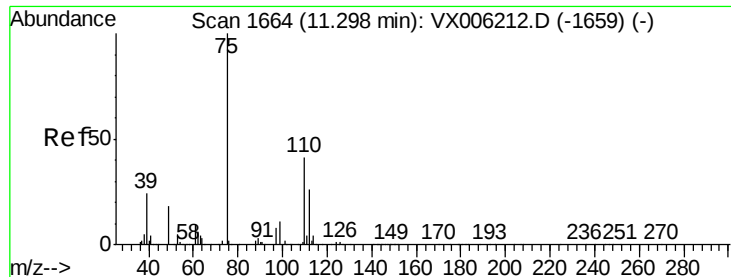
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 23.187 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006480.D

Acq: 13 Dec 2018 07:46

Instrument :

MSVOA_X

ClientSampleId :

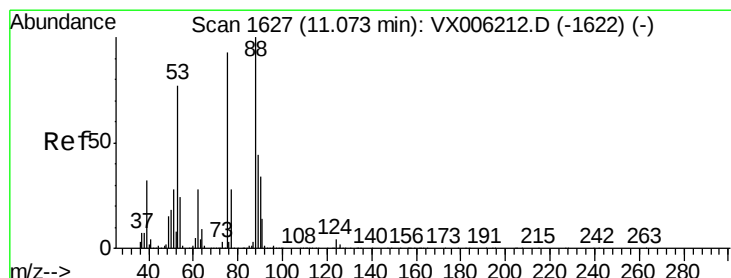
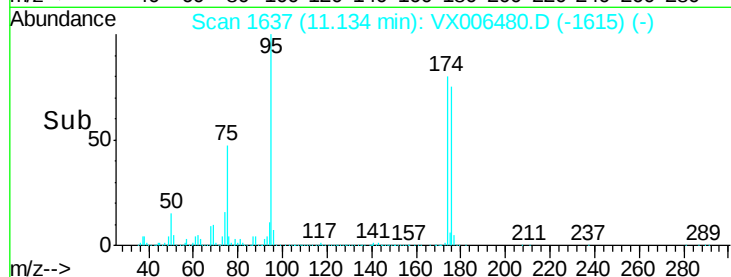
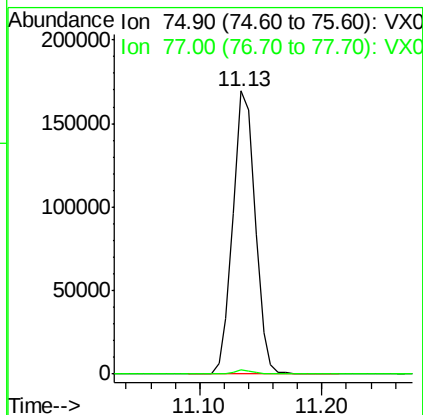
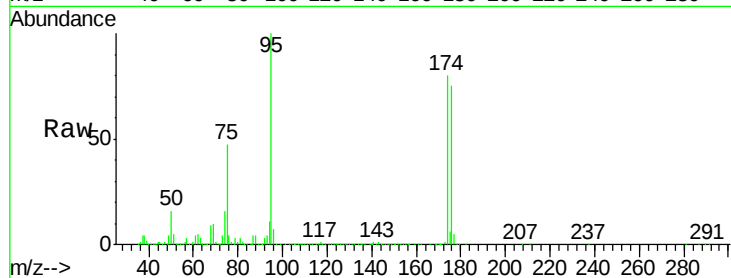
SB-09A

Tgt Ion: 75 Resp: 213101

Ion Ratio Lower Upper

75 100

77 1.3 19.9 59.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 54.414 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006480.D

Acq: 13 Dec 2018 07:46

Tgt Ion: 75 Resp: 213101

Ion Ratio Lower Upper

75 100

53 0.1 64.4 96.6#

89 0.1 44.2 66.4#

