

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX082219\
 Data File : VX011768.D
 Acq On : 22 Aug 2019 17:42
 Operator : JC/SP
 Sample : K4388-38
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T6-E2-(0)

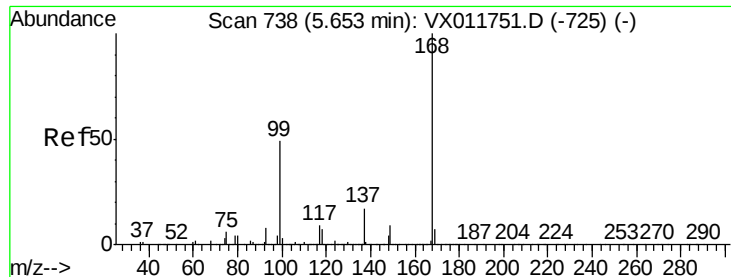
Quant Time: Aug 23 02:03:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082219W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 23 01:48:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	450481	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	611522	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	547335	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	266251	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	212535	46.97	ug/l	0.00
Spiked Amount			Recovery	=	93.94%	
35) Dibromofluoromethane	5.49	113	185351	46.87	ug/l	0.00
Spiked Amount			Recovery	=	93.74%	
50) Toluene-d8	8.71	98	691598	50.14	ug/l	0.00
Spiked Amount			Recovery	=	100.28%	
62) 4-Bromofluorobenzene	11.13	95	239447	43.92	ug/l	0.00
Spiked Amount			Recovery	=	87.84%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.59	94	661	0.326	ug/l #	36
6) Chloroethane	1.68	64	737	0.342	ug/l #	72
8) Diethyl Ether	2.23	74	427	0.214	ug/l	87
11) Tert butyl alcohol	3.01	59	4966	5.553	ug/l #	86
13) Acrolein	2.29	56	117	0.338	ug/l #	1
16) Acetone	2.43	43	9680	4.917	ug/l #	82
18) Methyl Acetate	2.77	43	3821	0.715	ug/l #	78
20) Methylene Chloride	2.85	84	8849	2.199	ug/l	91
29) Tetrahydrofuran	5.16	42	531	0.293	ug/l #	81
36) 1,1-Dichloropropene	5.66	75	24904	5.193	ug/l #	52
38) Carbon Tetrachloride	5.66	117	37033	6.814	ug/l #	16
43) Isopropyl Acetate	6.44	43	65032	7.918	ug/l	99
44) Trichloroethene	7.21	130	1347	0.295	ug/l	62
48) Methyl methacrylate	7.87	41	109250	26.727	ug/l #	40
49) 1,4-Dioxane	7.74	88	277	2.446	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	60892	11.251	ug/l #	52
52) Toluene	8.78	92	2321	0.242	ug/l	89
54) cis-1,3-Dichloropropene	8.61	75	29282	5.167	ug/l #	62
59) 2-Hexanone	9.54	43	70120	16.880	ug/l #	49
74) N-amyl acetate	10.82	43	3054	0.492	ug/l #	60
76) 1,2,3-Trichloropropane	11.13	75	110946	23.748	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	110946	71.618	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011768.D

Acq: 22 Aug 2019 17:42

Instrument :

MSVOA_X

ClientSampled :

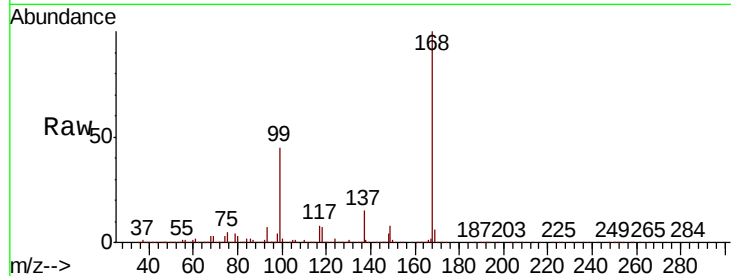
T6-E2-(0)

Tgt Ion:168 Resp: 450481

Ion Ratio Lower Upper

168 100

99 44.6 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

150000

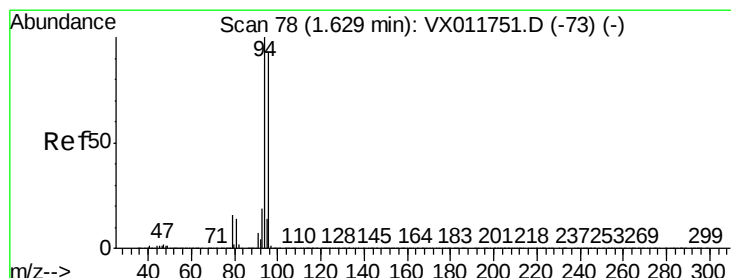
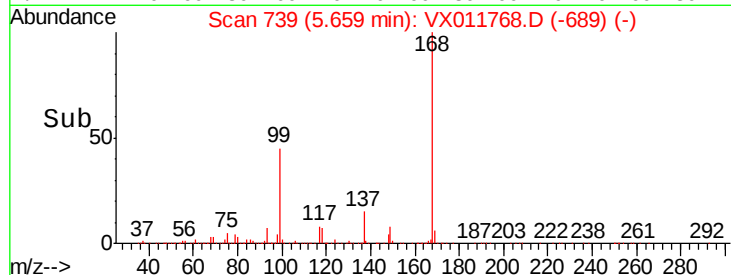
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.326 ug/l

RT: 1.59 min Scan# 71

Delta R.T. -0.04 min

Lab File: VX011768.D

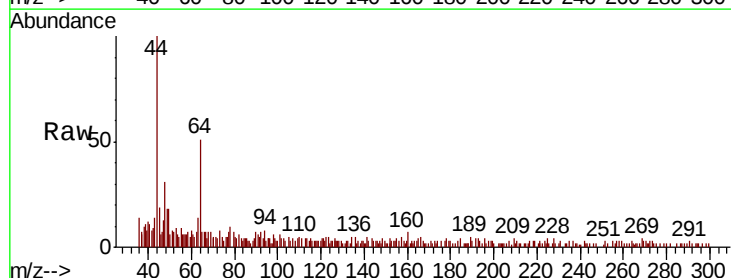
Acq: 22 Aug 2019 17:42

Tgt Ion: 94 Resp: 661

Ion Ratio Lower Upper

94 100

96 31.6 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

500

400

300

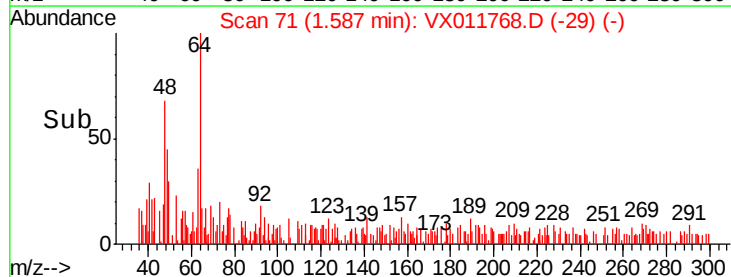
200

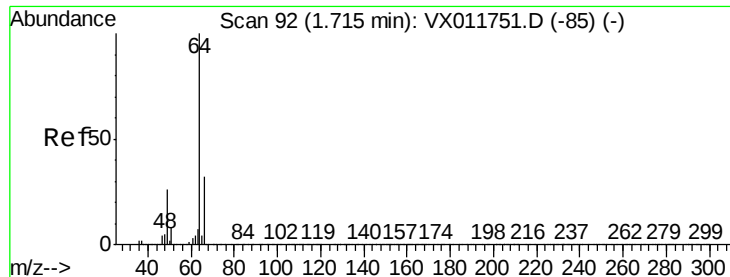
100

0

Time-->

1.55 1.60





#6

Chloroethane

Concen: 0.342 ug/l

RT: 1.68 min Scan# 87

Delta R.T. -0.03 min

Lab File: VX011768.D

Acq: 22 Aug 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

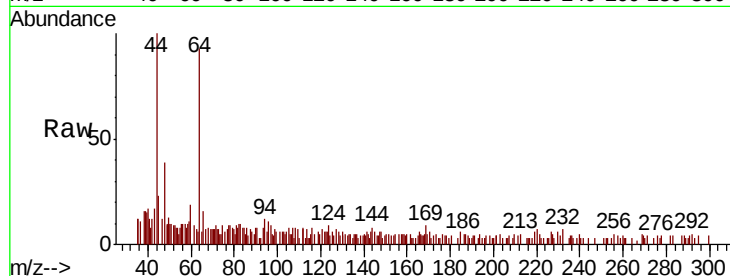
T6-E2-(0)

Tgt Ion: 64 Resp: 737

Ion Ratio Lower Upper

64 100

66 15.4 24.9 37.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.68

2000

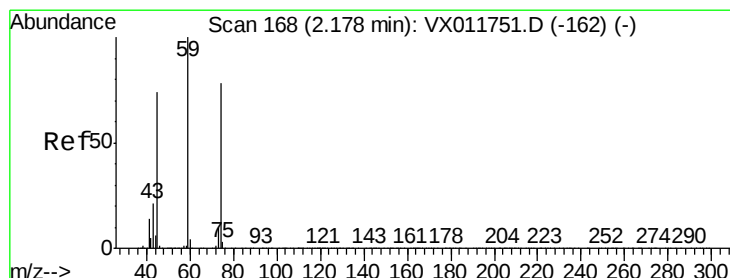
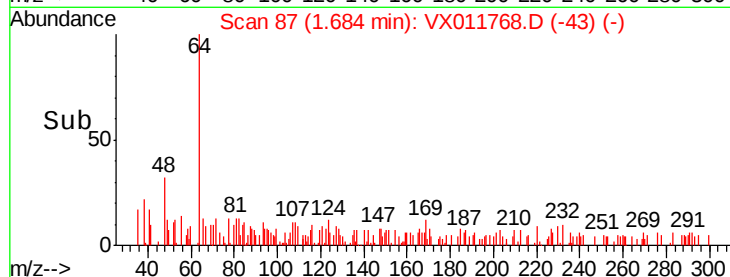
1500

1000

500

0

Time-->



#8

Diethyl Ether

Concen: 0.214 ug/l

RT: 2.23 min Scan# 176

Delta R.T. 0.05 min

Lab File: VX011768.D

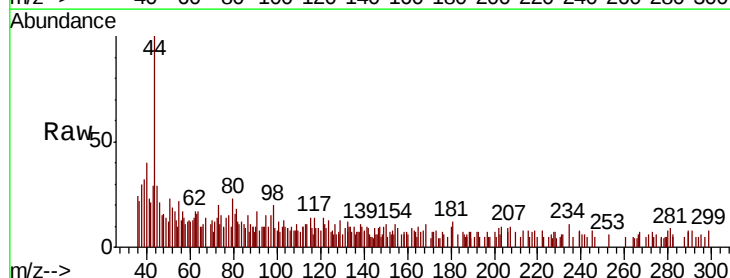
Acq: 22 Aug 2019 17:42

Tgt Ion: 74 Resp: 427

Ion Ratio Lower Upper

74 100

45 106.1 46.7 140.0



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.23

800

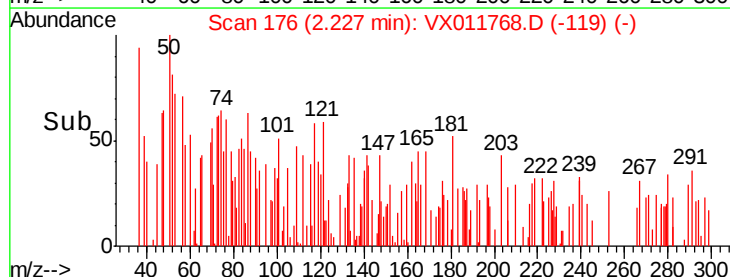
600

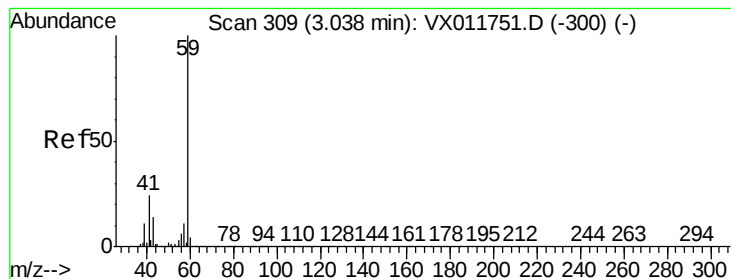
400

200

0

Time-->



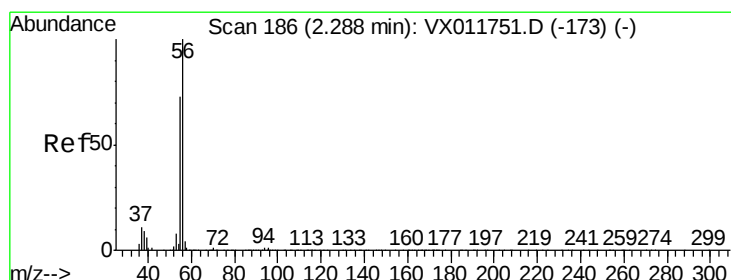
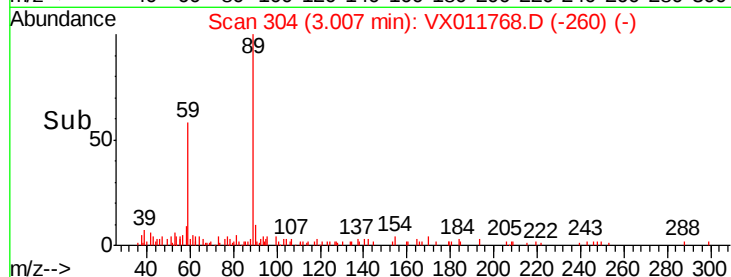
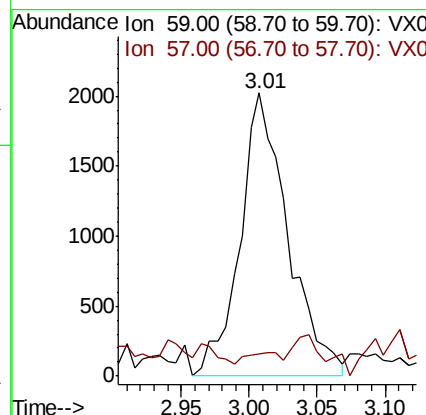
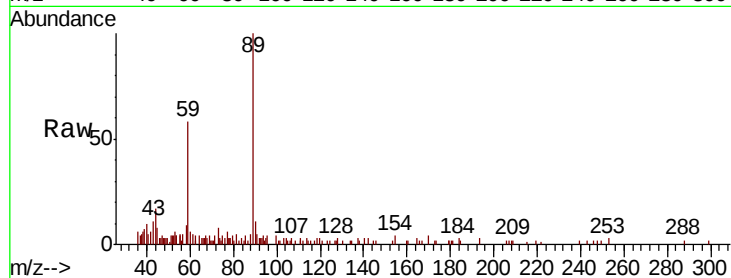


#11

Tert butyl alcohol
 Concen: 5.553 ug/l
 RT: 3.01 min Scan# 304
 Delta R.T. -0.03 min
 Lab File: VX011768.D
 Acq: 22 Aug 2019 17:42

Instrument :
 MSVOA_X
 ClientSampleId :
 T6-E2-(0)

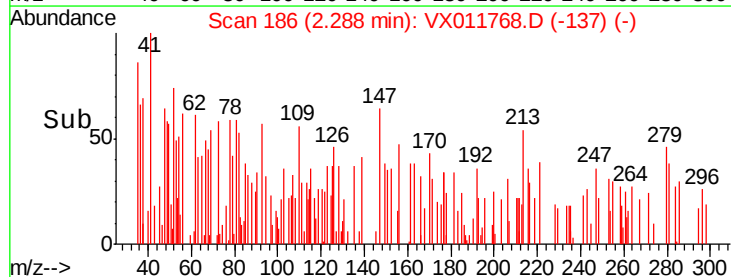
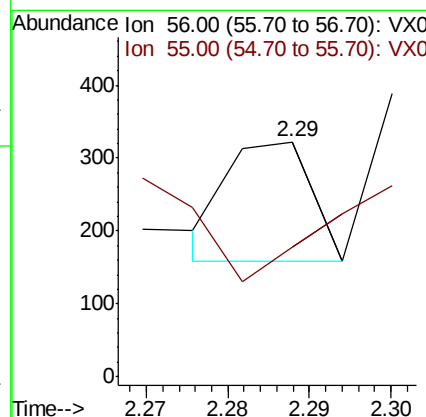
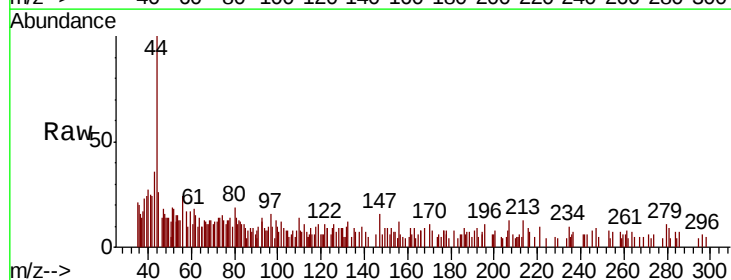
Tgt Ion: 59 Resp: 4966
 Ion Ratio Lower Upper
 59 100
 57 5.1 8.4 12.6#

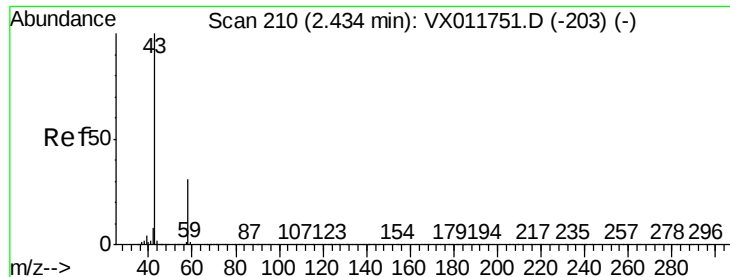


#13

Acrolein
 Concen: 0.338 ug/l
 RT: 2.29 min Scan# 186
 Delta R.T. 0.00 min
 Lab File: VX011768.D
 Acq: 22 Aug 2019 17:42

Tgt Ion: 56 Resp: 117
 Ion Ratio Lower Upper
 56 100
 55 211.1 54.8 82.2#





#16

Acetone

Concen: 4.917 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011768.D

Acq: 22 Aug 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

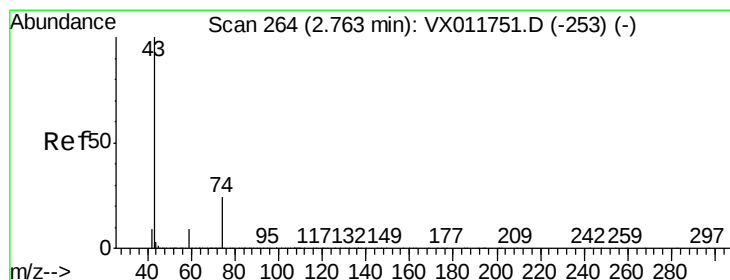
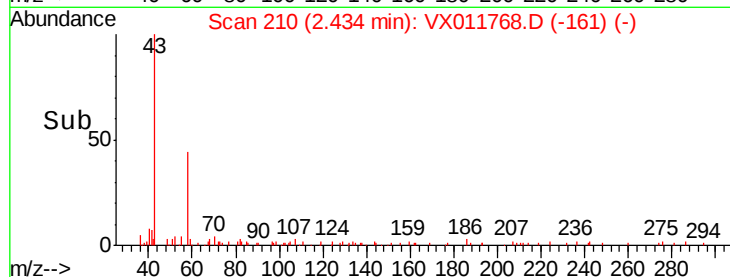
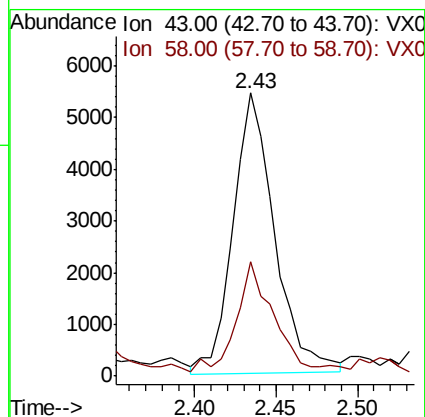
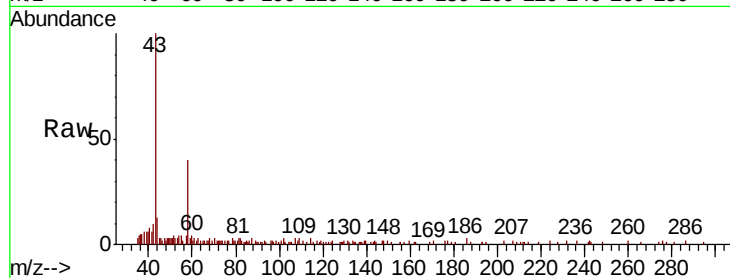
T6-E2-(0)

Tgt Ion: 43 Resp: 9680

Ion Ratio Lower Upper

43 100

58 40.3 24.4 36.6#



#18

Methyl Acetate

Concen: 0.715 ug/l

RT: 2.77 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX011768.D

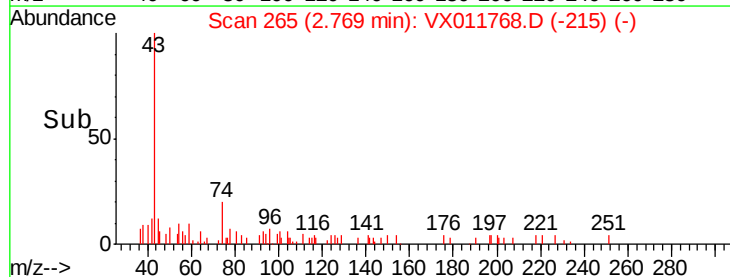
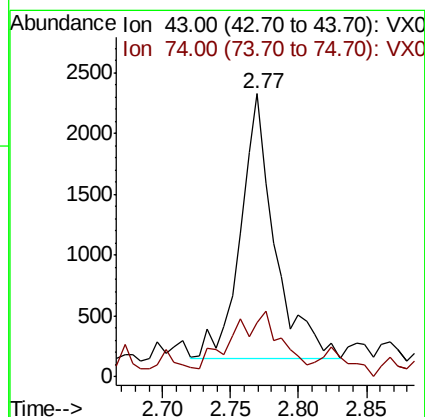
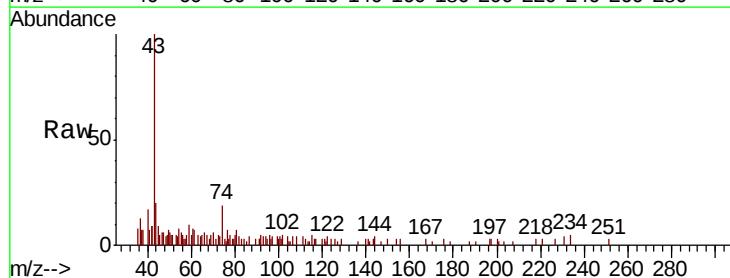
Acq: 22 Aug 2019 17:42

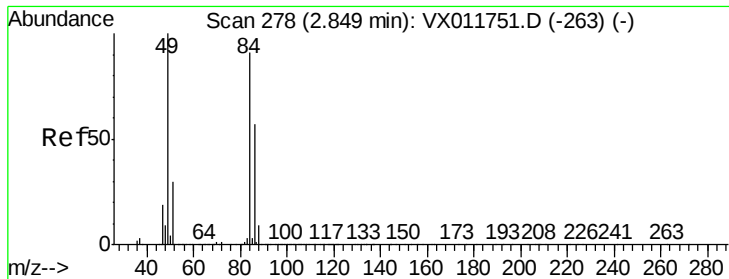
Tgt Ion: 43 Resp: 3821

Ion Ratio Lower Upper

43 100

74 13.6 19.5 29.3#





#20

Methylene Chloride

Concen: 2.199 ug/l

RT: 2.85 min Scan# 279

Delta R.T. 0.01 min

Lab File: VX011768.D

Acq: 22 Aug 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

T6-E2-(0)

Tgt Ion: 84 Resp: 8849

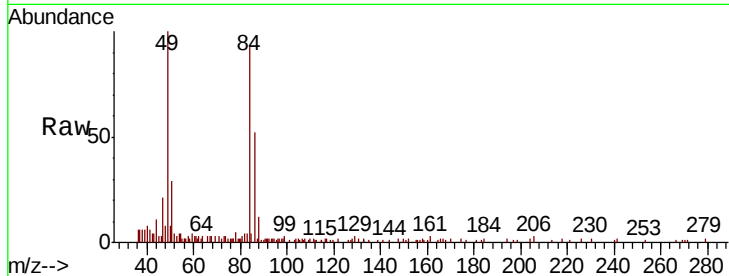
Ion Ratio Lower Upper

84 100

49 103.9 88.3 132.5

51 28.6 26.2 39.2

86 52.9 50.6 76.0

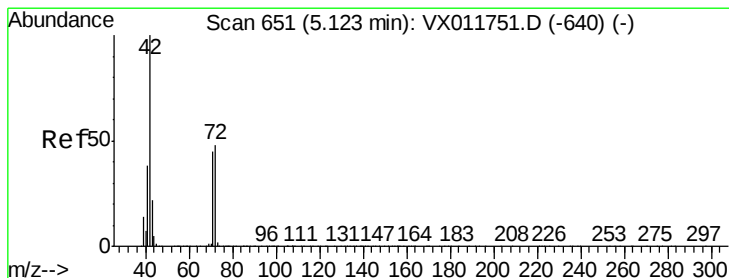
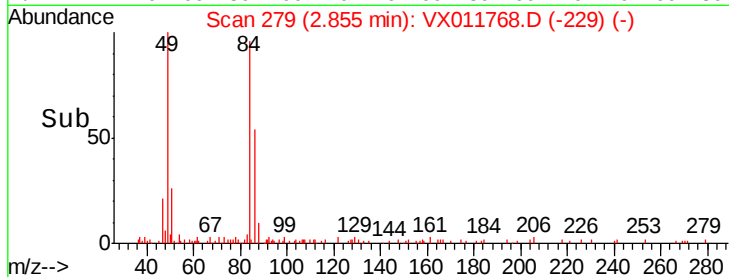
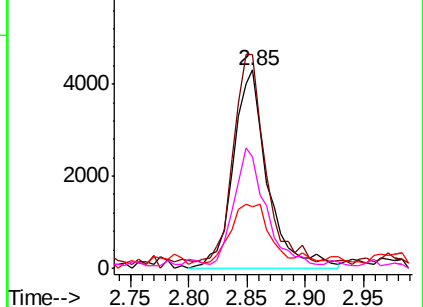


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#29

Tetrahydrofuran

Concen: 0.293 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.04 min

Lab File: VX011768.D

Acq: 22 Aug 2019 17:42

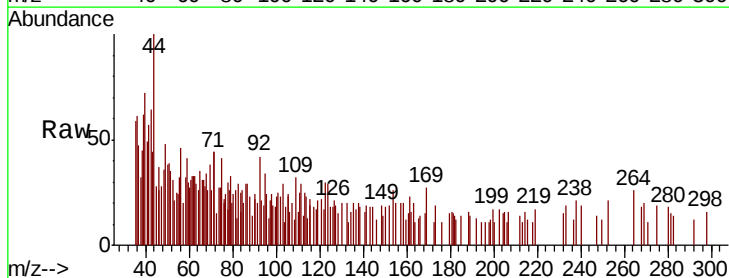
Tgt Ion: 42 Resp: 531

Ion Ratio Lower Upper

42 100

72 55.4 37.6 56.4

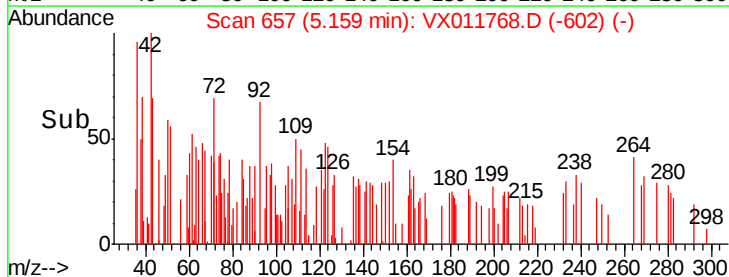
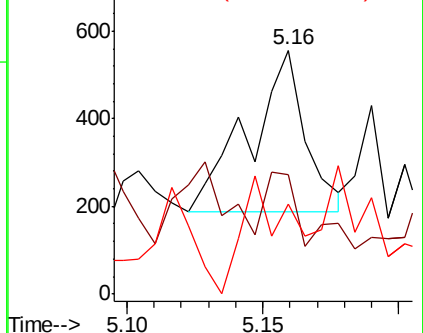
71 59.5 34.6 51.8#

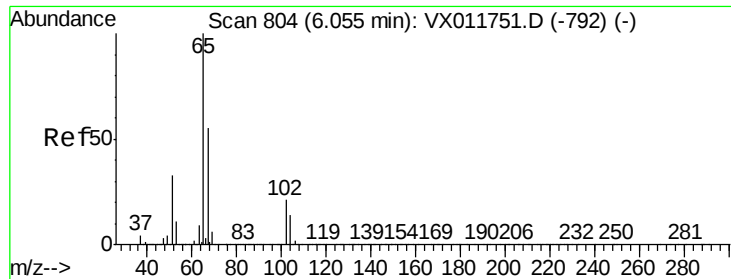


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 46.965 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011768.D

Acq: 22 Aug 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

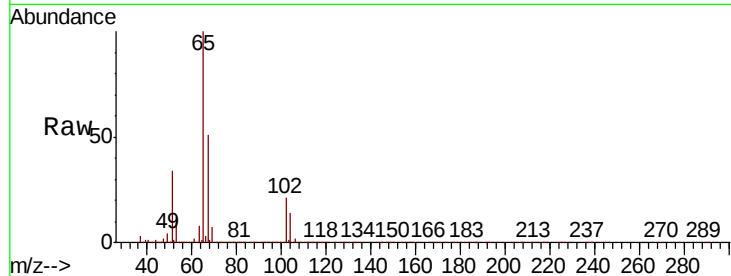
T6-E2-(0)

Tgt Ion: 65 Resp: 212535

Ion Ratio Lower Upper

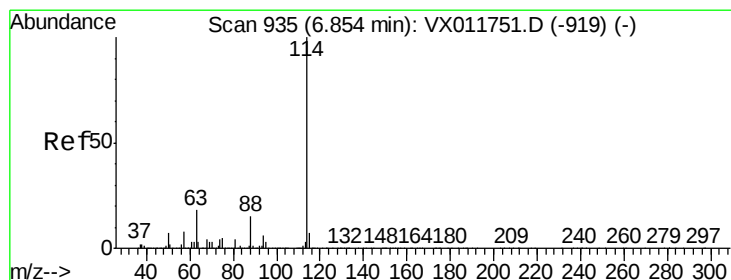
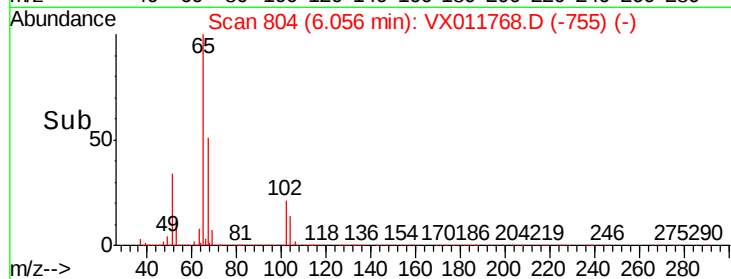
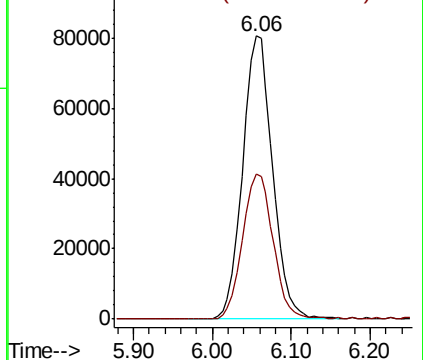
65 100

67 52.1 0.0 107.8



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: 6.85 min Scan# 935

Delta R.T. 0.00 min

Lab File: VX011768.D

Acq: 22 Aug 2019 17:42

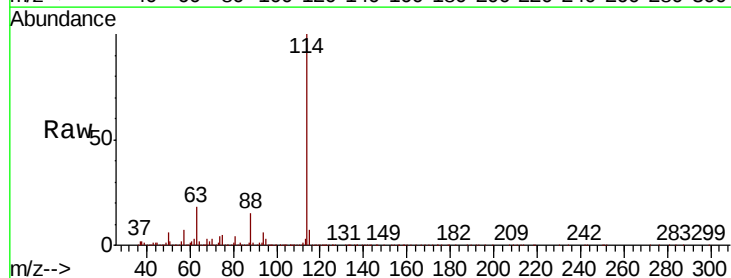
Tgt Ion: 114 Resp: 611522

Ion Ratio Lower Upper

114 100

63 17.6 0.0 36.8

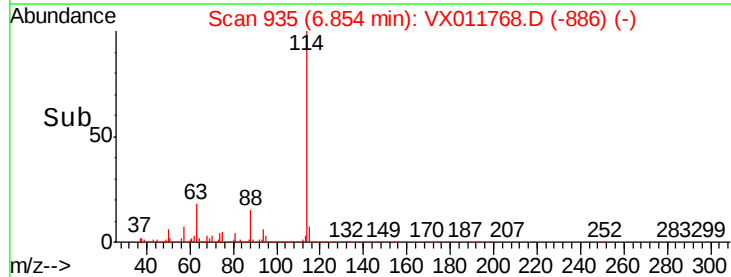
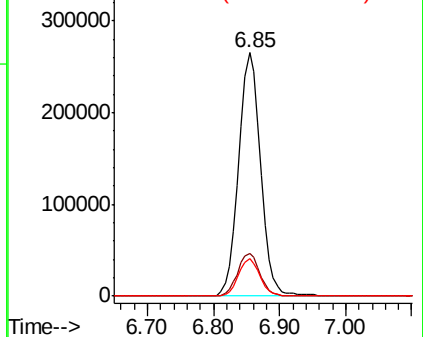
88 15.1 0.0 30.2

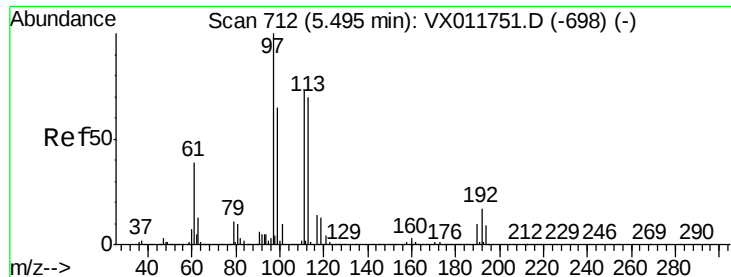


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

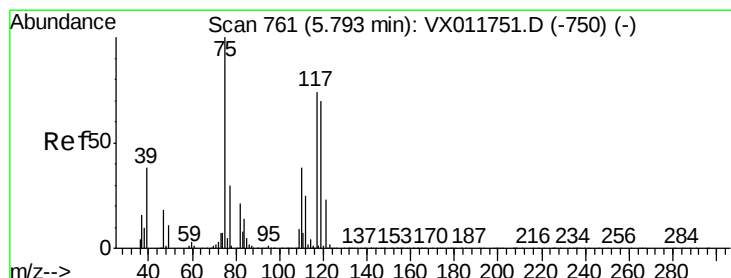
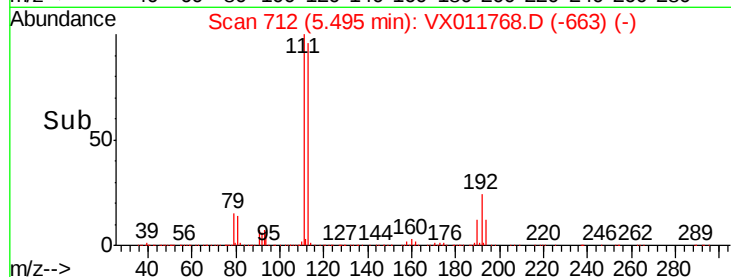
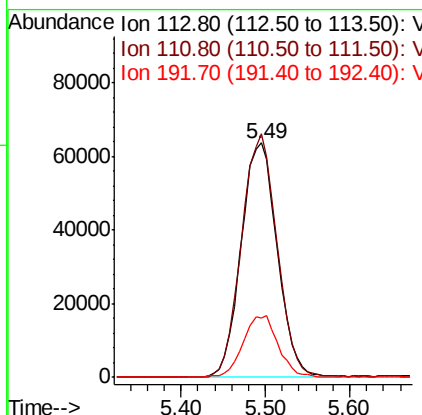
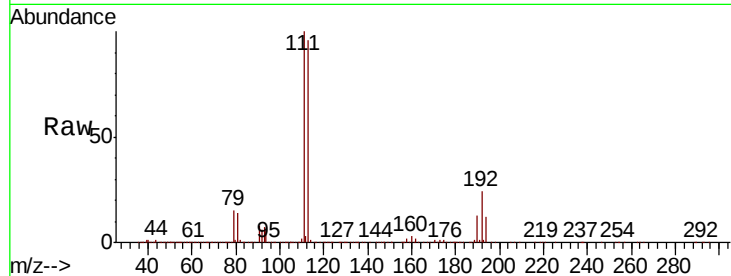




#35
 Dibromofluoromethane
 Concen: 46.873 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. 0.00 min
 Lab File: VX011768.D
 Acq: 22 Aug 2019 17:42

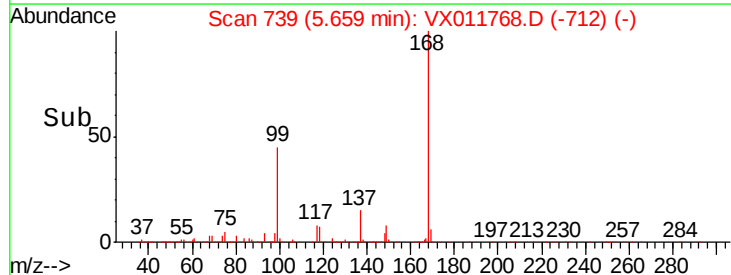
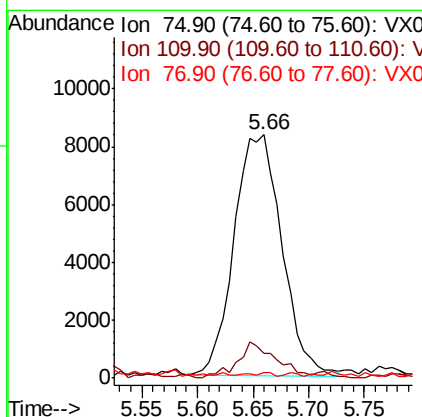
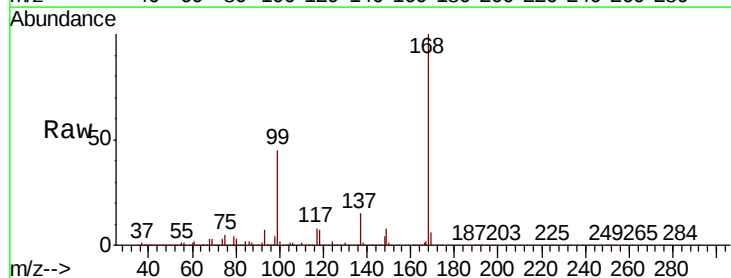
Instrument :
 MSVOA_X
 ClientSampleId :
 T6-E2-(0)

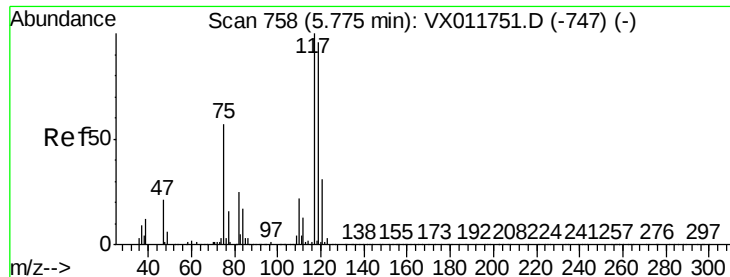
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.0	121.4
192	25.7	19.9	29.9



#36
 1,1-Dichloropropene
 Concen: 5.193 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX011768.D
 Acq: 22 Aug 2019 17:42

Tgt Ion	Ratio	Lower	Upper
75	100		
110	12.3	19.0	57.0#
77	0.6	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 6.814 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX011768.D

Acq: 22 Aug 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

T6-E2-(0)

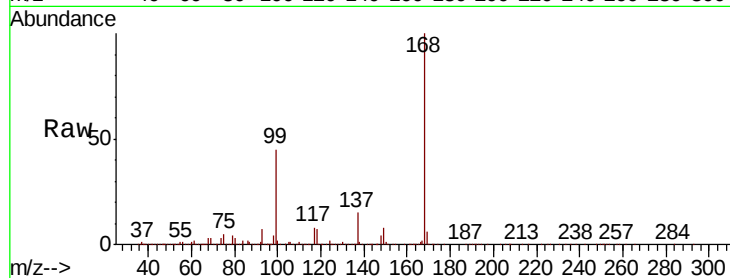
Tgt Ion:117 Resp: 37033

Ion Ratio Lower Upper

117 100

119 5.0 76.6 114.8#

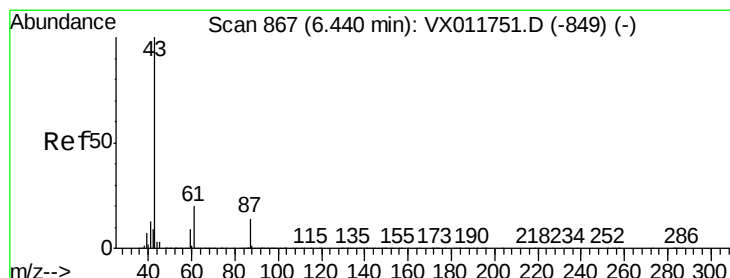
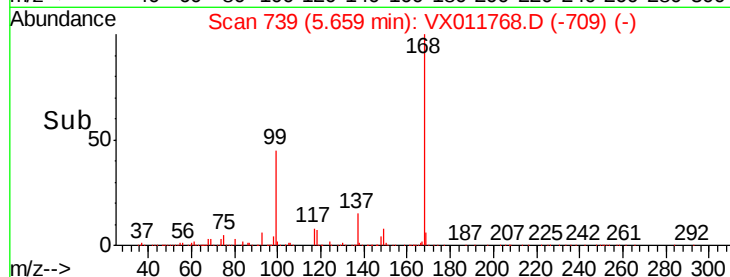
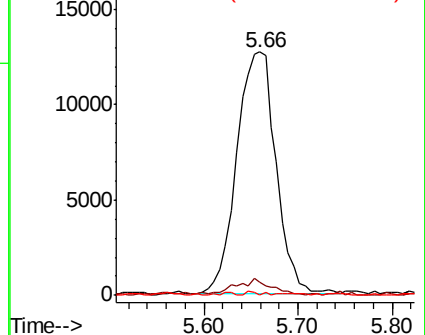
121 0.0 25.2 37.8#



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: 7.918 ug/l

RT: 6.44 min Scan# 867

Delta R.T. 0.00 min

Lab File: VX011768.D

Acq: 22 Aug 2019 17:42

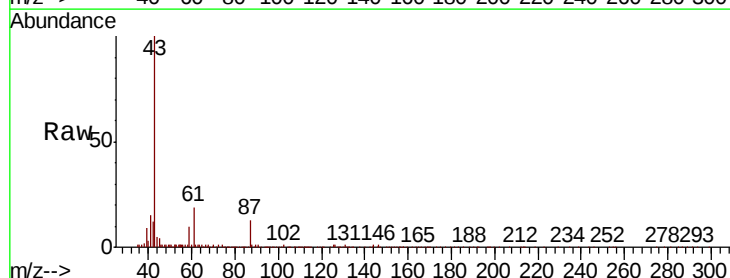
Tgt Ion: 43 Resp: 65032

Ion Ratio Lower Upper

43 100

61 20.2 16.2 24.2

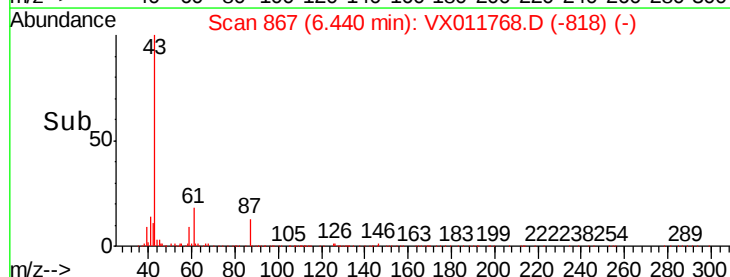
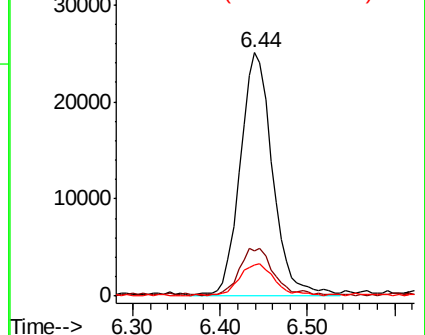
87 13.8 11.6 17.4

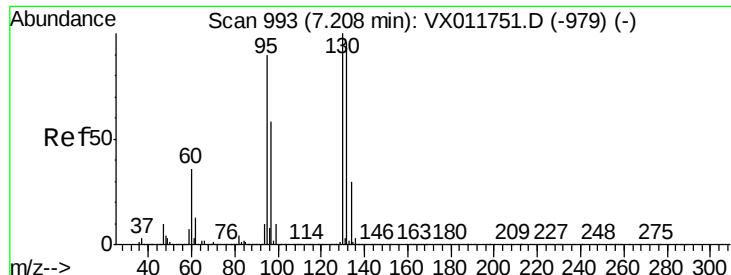


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#44

Trichloroethene

Concen: 0.295 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.01 min

Lab File: VX011768.D

Acq: 22 Aug 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

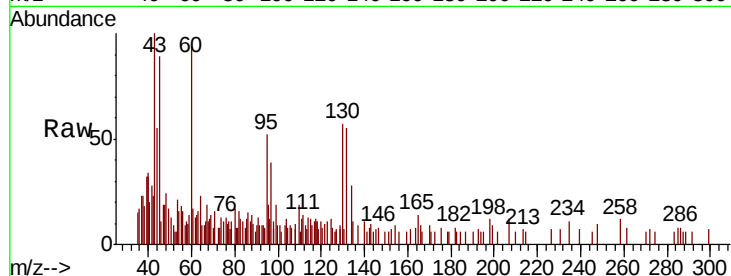
T6-E2-(0)

Tgt Ion:130 Resp: 1347

Ion Ratio Lower Upper

130 100

95 125.0 0.0 179.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

600

500

400

300

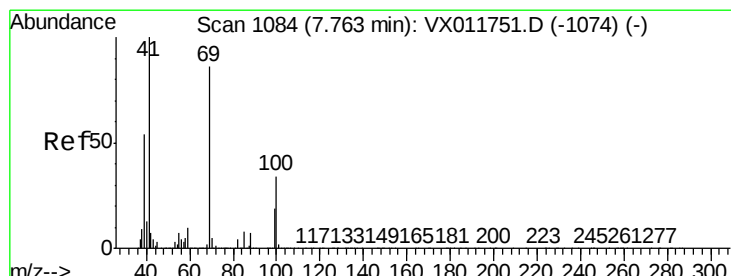
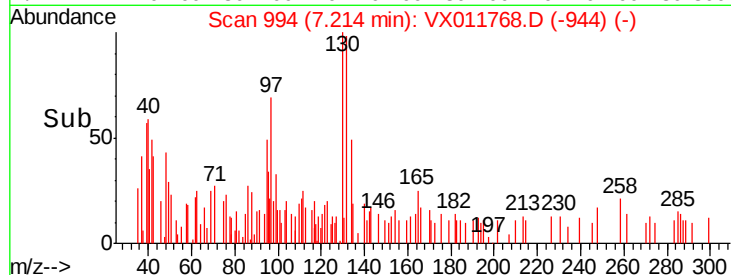
200

100

0

7.15 7.20 7.25 7.30

Time-->



#48

Methyl methacrylate

Concen: 26.727 ug/l

RT: 7.87 min Scan# 1101

Delta R.T. 0.10 min

Lab File: VX011768.D

Acq: 22 Aug 2019 17:42

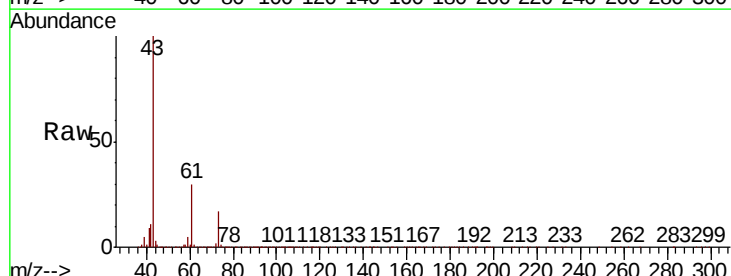
Tgt Ion: 41 Resp: 109250

Ion Ratio Lower Upper

41 100

69 0.2 69.4 104.2#

39 49.7 43.6 65.4



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

80000

60000

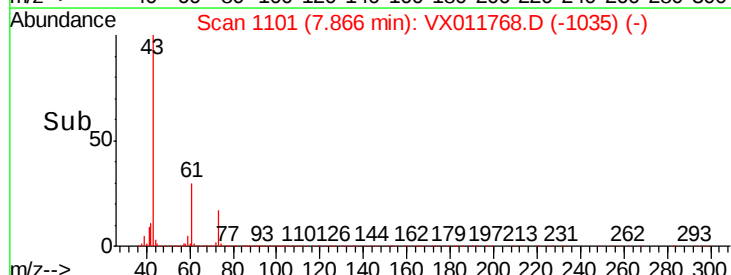
40000

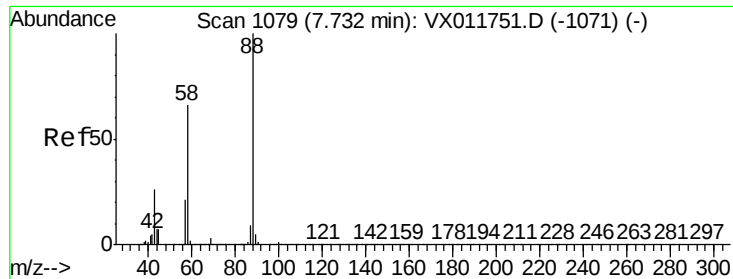
20000

0

7.80 7.90 8.00

Time-->

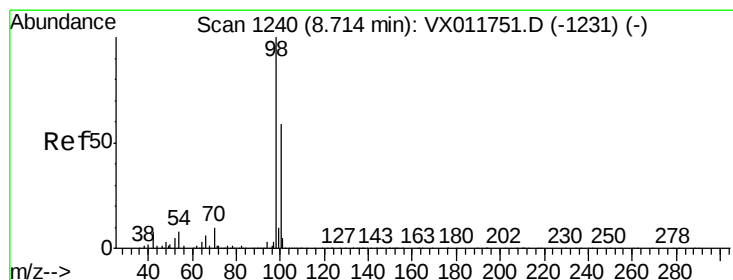
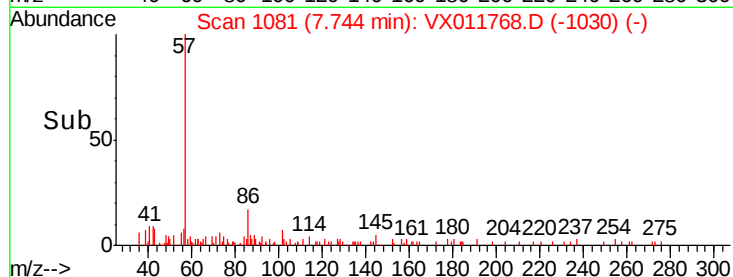
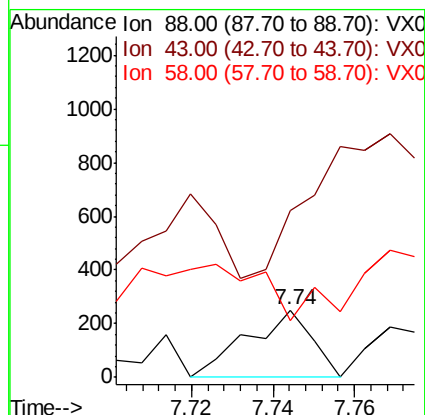
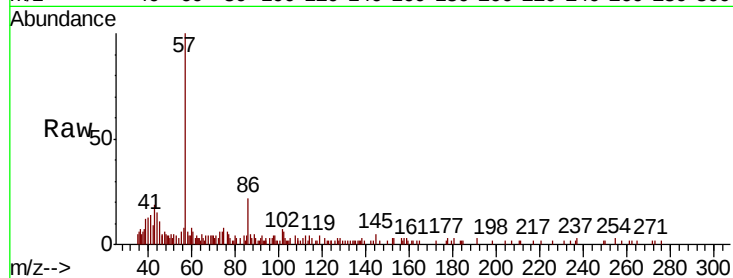




#49
1,4-Dioxane
Concen: 2.446 ug/l
RT: 7.74 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VX011768.D
Acq: 22 Aug 2019 17:42

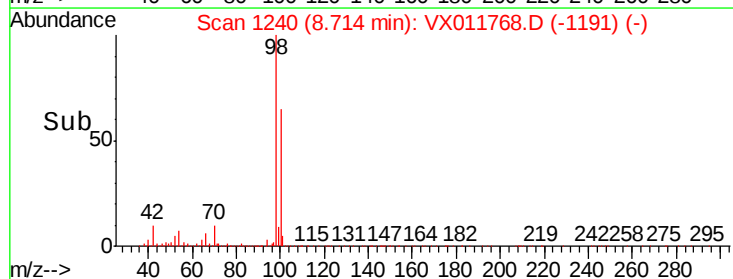
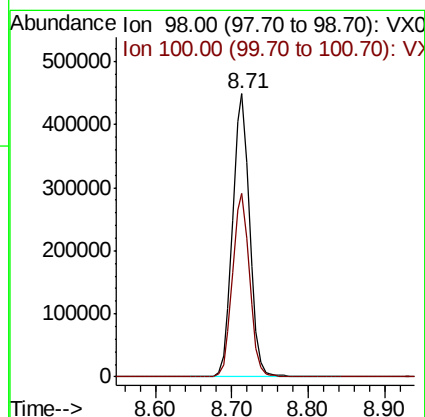
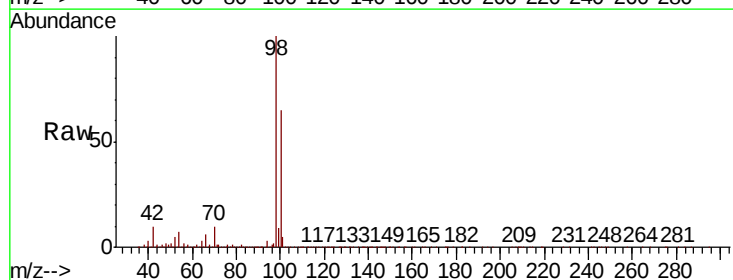
Instrument :
MSVOA_X
ClientSampled :
T6-E2-(0)

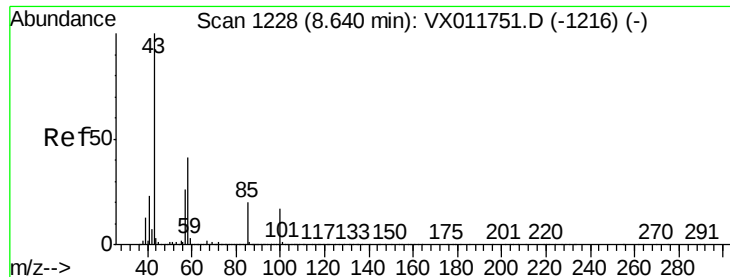
Tgt Ion: 88 Resp: 277
Ion Ratio Lower Upper
88 100
43 0.0 24.6 37.0#
58 377.3 51.4 77.2#



#50
Toluene-d8
Concen: 50.142 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011768.D
Acq: 22 Aug 2019 17:42

Tgt Ion: 98 Resp: 691598
Ion Ratio Lower Upper
98 100
100 64.9 52.1 78.1

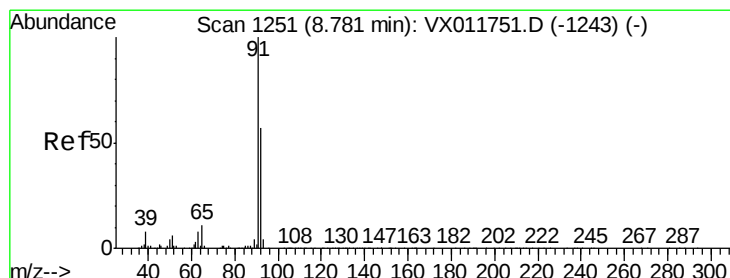
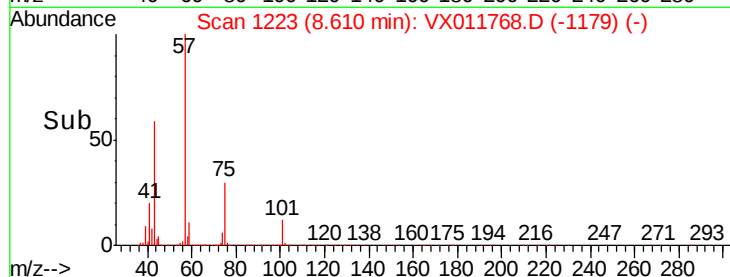
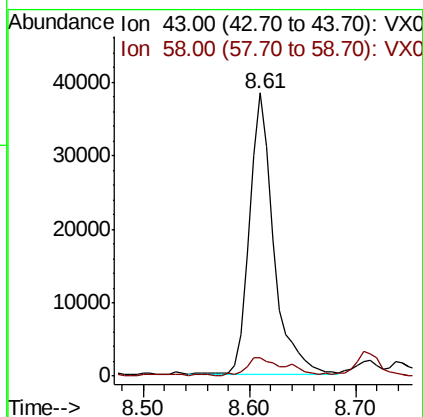
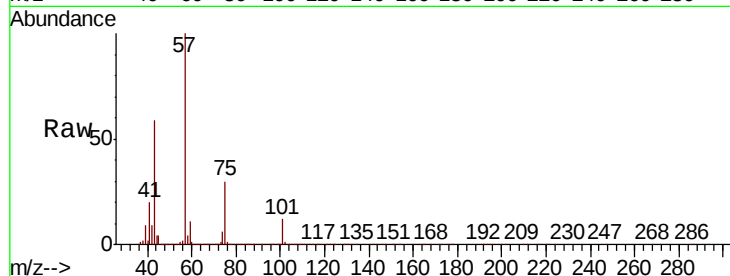




#51
 4-Methyl-2-Pentanone
 Concen: 11.251 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. -0.03 min
 Lab File: VX011768.D
 Acq: 22 Aug 2019 17:42

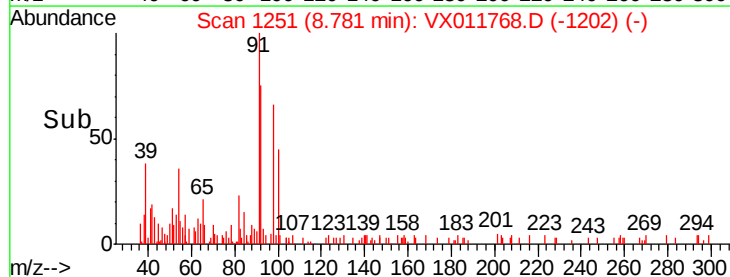
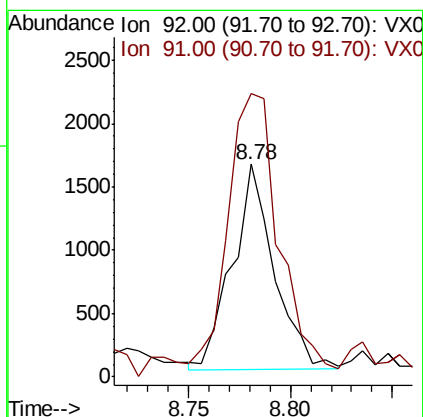
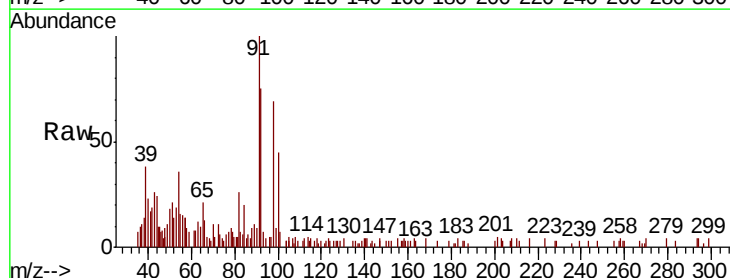
Instrument :
 MSVOA_X
 ClientSampleId :
 T6-E2-(0)

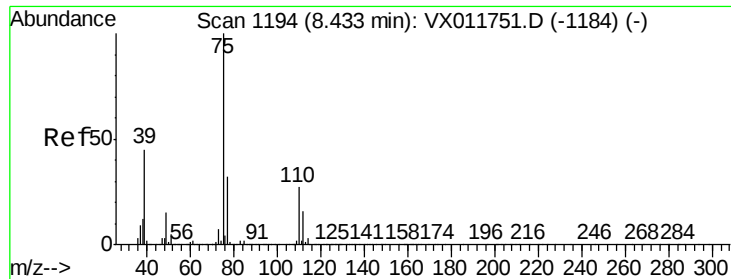
Tgt Ion: 43 Resp: 60892
 Ion Ratio Lower Upper
 43 100
 58 10.1 31.8 47.6#



#52
 Toluene
 Concen: 0.242 ug/l
 RT: 8.78 min Scan# 1251
 Delta R.T. 0.00 min
 Lab File: VX011768.D
 Acq: 22 Aug 2019 17:42

Tgt Ion: 92 Resp: 2321
 Ion Ratio Lower Upper
 92 100
 91 157.6 138.6 207.8

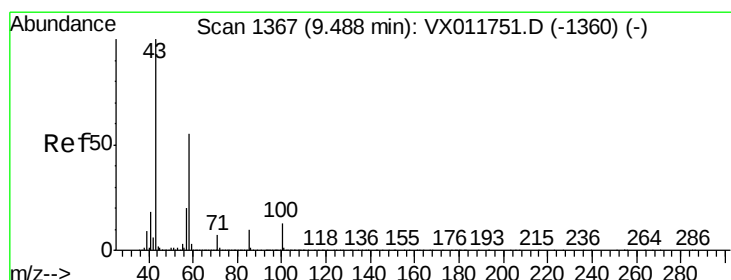
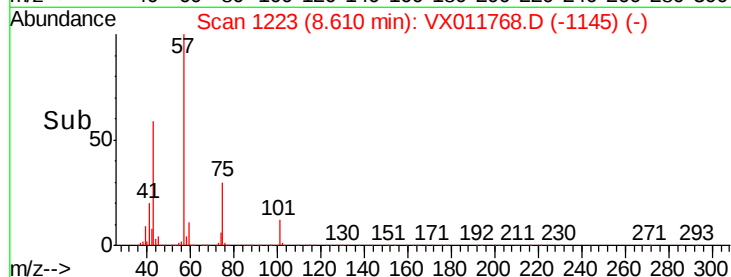
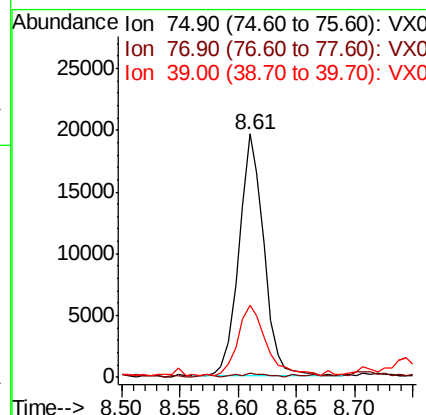
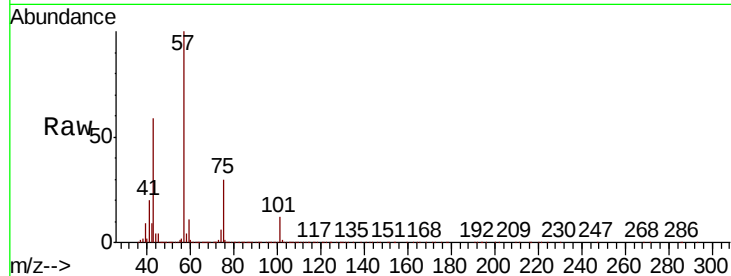




#54
 cis-1,3-Dichloropropene
 Concen: 5.167 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011768.D
 Acq: 22 Aug 2019 17:42

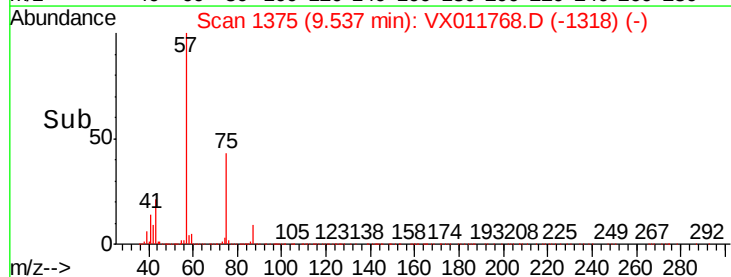
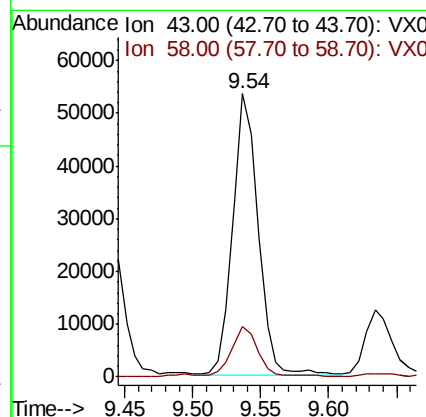
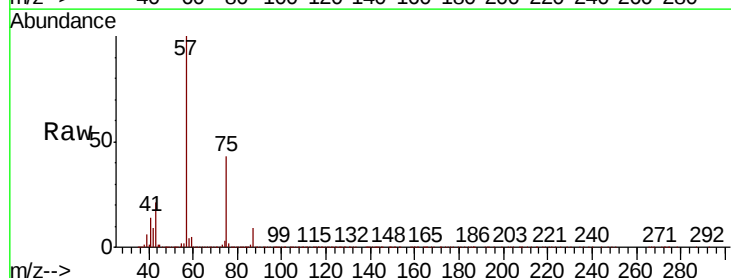
Instrument :
 MSVOA_X
 ClientSampled :
 T6-E2-(0)

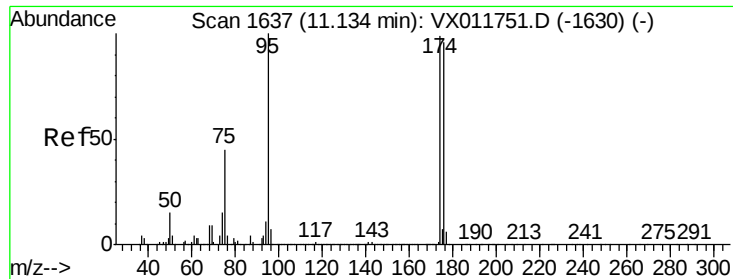
Tgt Ion: 75 Resp: 29282
 Ion Ratio Lower Upper
 75 100
 77 1.0 25.4 38.2#
 39 28.6 36.2 54.4#



#59
 2-Hexanone
 Concen: 16.880 ug/l
 RT: 9.54 min Scan# 1375
 Delta R.T. 0.05 min
 Lab File: VX011768.D
 Acq: 22 Aug 2019 17:42

Tgt Ion: 43 Resp: 70120
 Ion Ratio Lower Upper
 43 100
 58 18.2 27.7 83.1#





#62

4-Bromofluorobenzene

Concen: 43.921 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011768.D

Acq: 22 Aug 2019 17:42

Instrument :

MSVOA_X

ClientSampled :

T6-E2-(0)

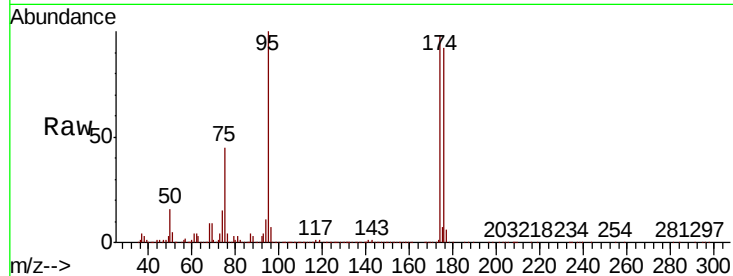
Tgt Ion: 95 Resp: 239447

Ion Ratio Lower Upper

95 100

174 101.1 0.0 197.4

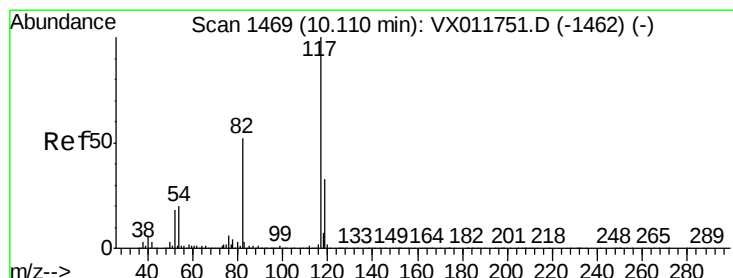
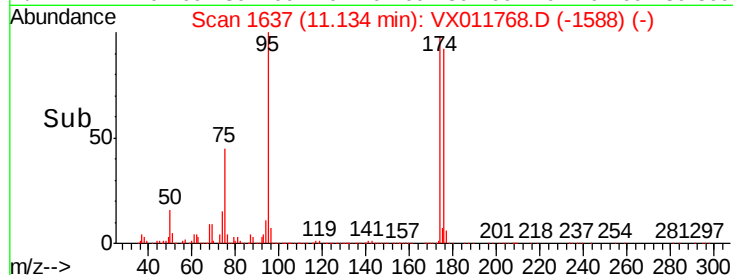
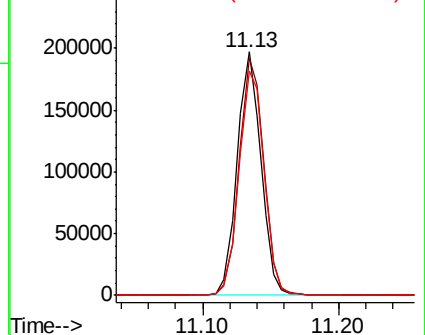
176 97.4 0.0 194.4



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX011768.D

Acq: 22 Aug 2019 17:42

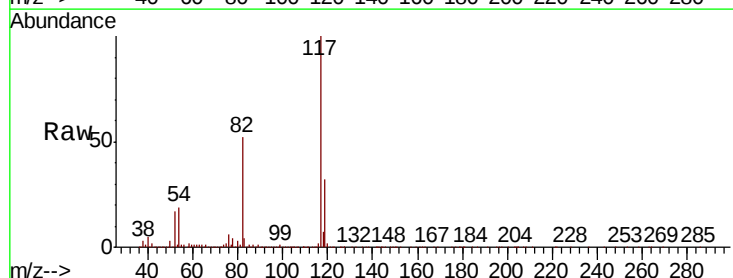
Tgt Ion: 117 Resp: 547335

Ion Ratio Lower Upper

117 100

82 51.7 41.7 62.5

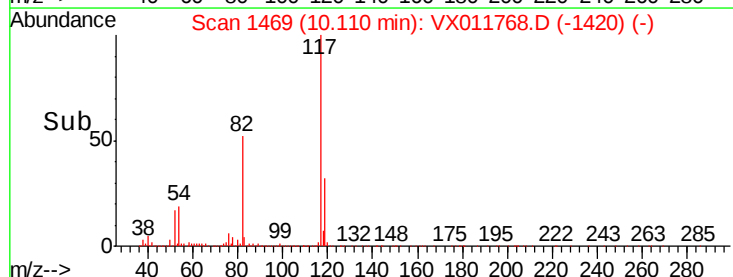
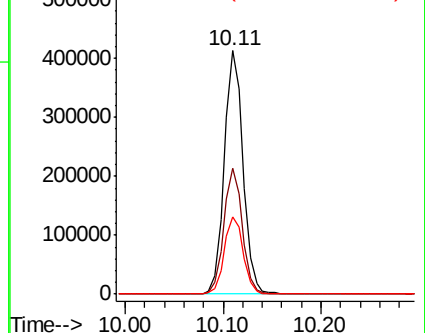
119 31.6 26.2 39.2

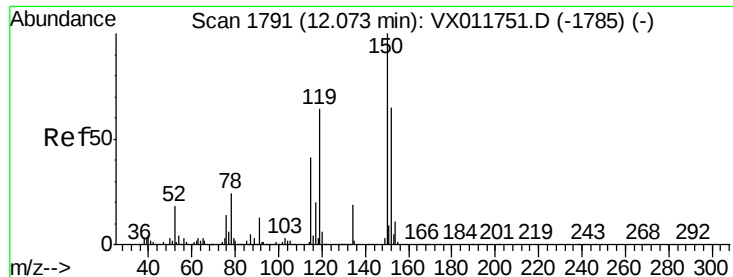


Abundance Ion 116.90 (116.60 to 117.60): V

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. 0.01 min

Lab File: VX011768.D

Acq: 22 Aug 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

T6-E2-(0)

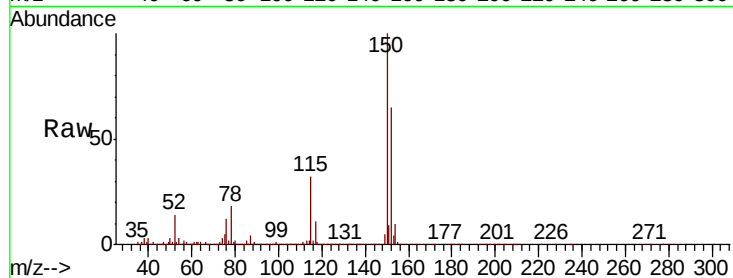
Tgt Ion:152 Resp: 266251

Ion Ratio Lower Upper

152 100

115 53.5 37.3 111.8

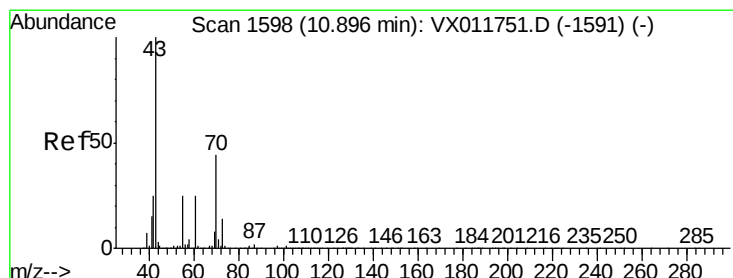
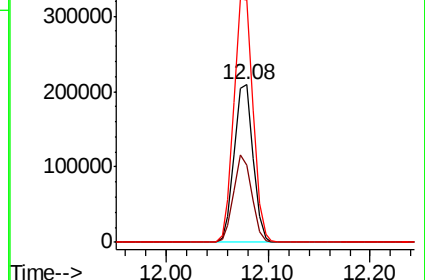
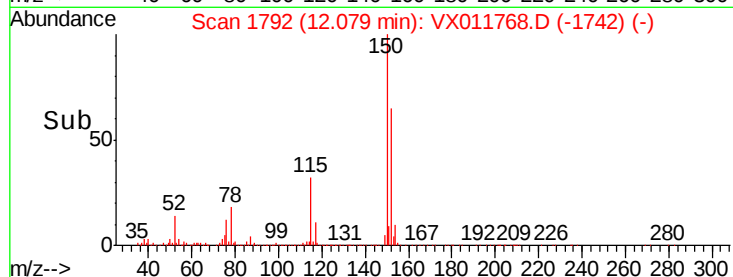
150 157.0 0.0 343.0



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-amyl acetate

Concen: 0.492 ug/l

RT: 10.82 min Scan# 1586

Delta R.T. -0.07 min

Lab File: VX011768.D

Acq: 22 Aug 2019 17:42

Tgt Ion: 43 Resp: 3054

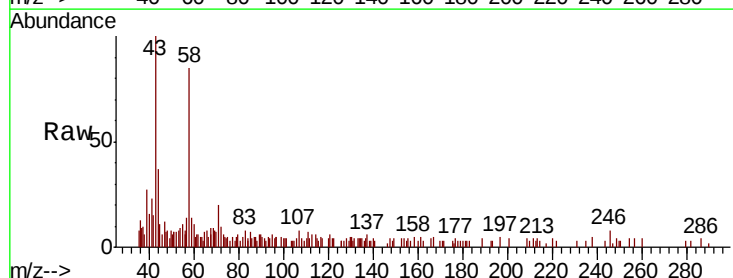
Ion Ratio Lower Upper

43 100

70 4.7 34.8 52.2#

55 12.7 19.5 29.3#

61 13.8 19.8 29.6#

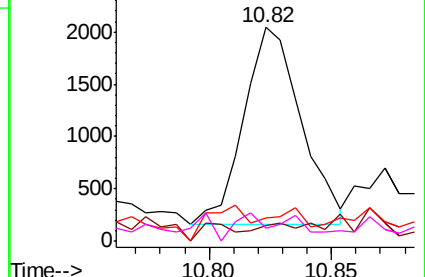
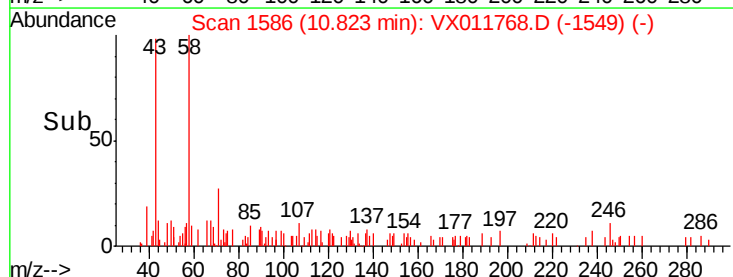


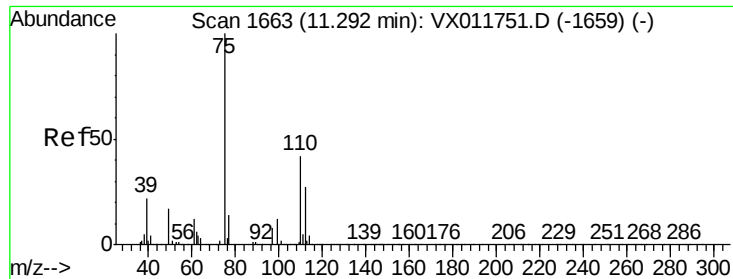
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 23.748 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011768.D

Acq: 22 Aug 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

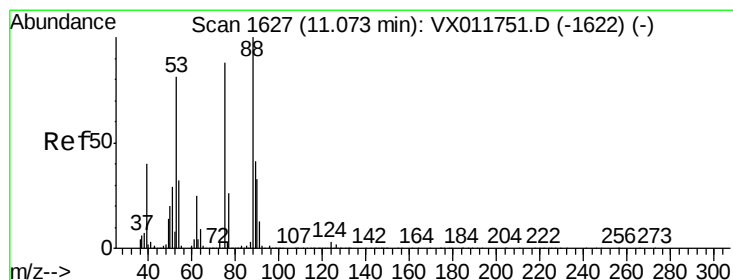
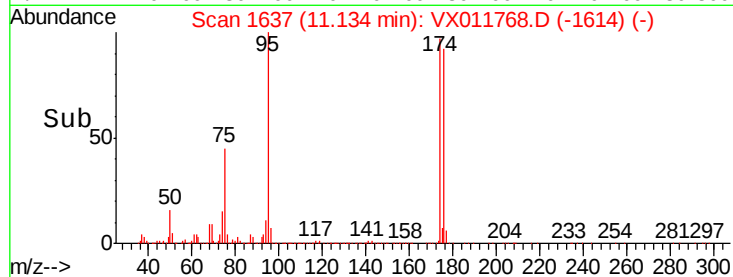
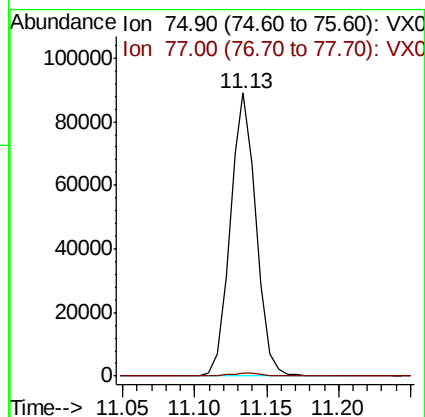
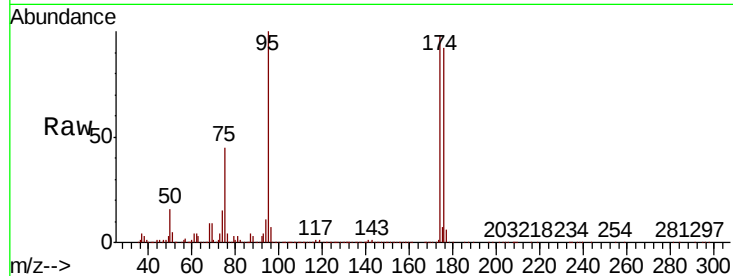
T6-E2-(0)

Tgt Ion: 75 Resp: 110946

Ion Ratio Lower Upper

75 100

77 1.6 21.1 63.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 71.618 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011768.D

Acq: 22 Aug 2019 17:42

Tgt Ion: 75 Resp: 110946

Ion Ratio Lower Upper

75 100

53 0.0 77.1 115.7#

89 0.4 38.5 57.7#

