

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX020819\
 Data File : VX007446.D
 Acq On : 08 Feb 2019 17:02
 Operator : JC/SP
 Sample : K1445-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 08 23:05:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	502528	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	785873	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	738856	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	357939	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	277091	51.95	ug/l	0.00
Spiked Amount			Recovery	=	103.90%	
35) Dibromofluoromethane	5.51	113	249194	48.73	ug/l	0.00
Spiked Amount			Recovery	=	97.46%	
50) Toluene-d8	8.71	98	933773	49.22	ug/l	0.00
Spiked Amount			Recovery	=	98.44%	
62) 4-Bromofluorobenzene	11.13	95	332170	47.96	ug/l	0.00
Spiked Amount			Recovery	=	95.92%	

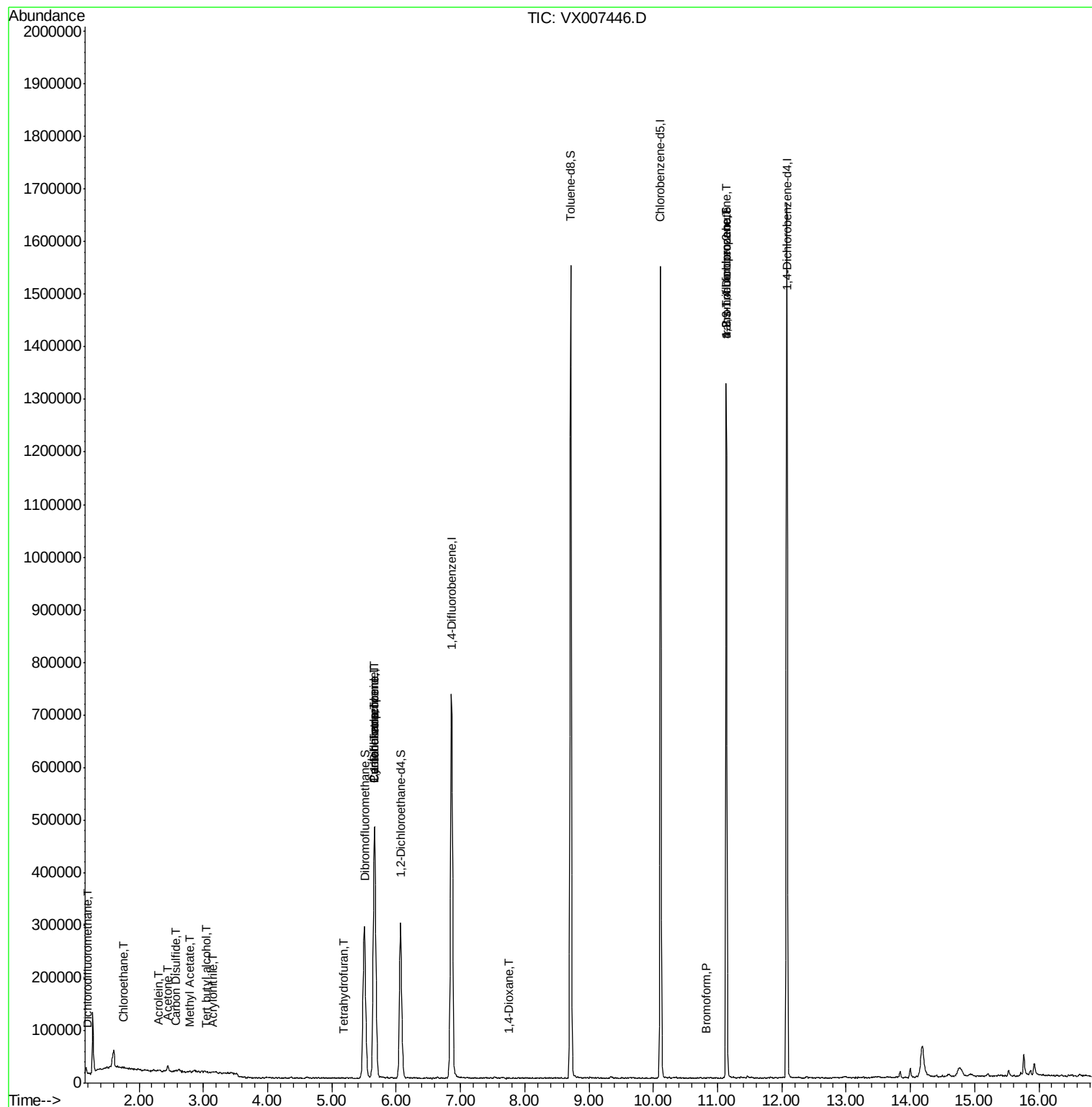
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	186	0.207	ug/l #	43
5) Bromomethane	1.65	94	863	Below Cal		98
6) Chloroethane	1.75	64	1606	0.447	ug/l #	43
11) Tert butyl alcohol	3.05	59	552	0.500	ug/l #	73
13) Acrolein	2.29	56	729	1.408	ug/l #	14
15) Acrylonitrile	3.15	53	851	0.312	ug/l #	63
16) Acetone	2.45	43	12504	5.118	ug/l #	85
17) Carbon Disulfide	2.57	76	2665	2.324	ug/l #	85
18) Methyl Acetate	2.78	43	1737	0.863	ug/l #	75
20) Methylene Chloride	2.86	84	1413	Below Cal	#	75
29) Tetrahydrofuran	5.18	42	523	0.239	ug/l #	61
31) Cyclohexane	5.66	56	8252	1.113	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	31884	4.522	ug/l #	50
38) Carbon Tetrachloride	5.67	117	45512	6.653	ug/l #	17
49) 1,4-Dioxane	7.75	88	77	7.490	ug/l #	1
71) Bromoform	10.82	173	101	4.049	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	158315	22.739	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	158315	68.568	ug/l #	9

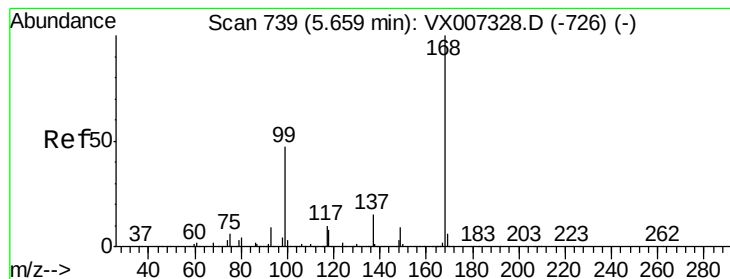
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Feb 02 01:32:36 2019
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: VX007446.D

Acq: 08 Feb 2019 17:02

Instrument :

MSVOA_X

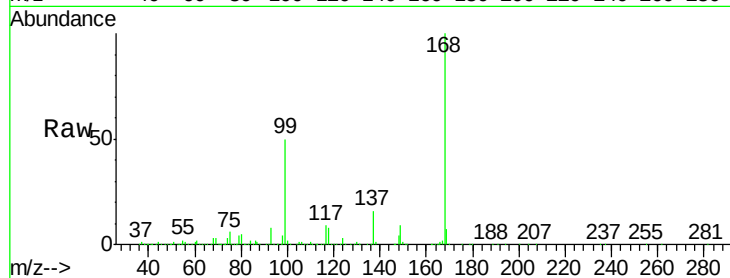
ClientSampleId :

Tot Ion:168 Resp: 502528

Ion Ratio Lower Upper

168 100

99 50.0 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

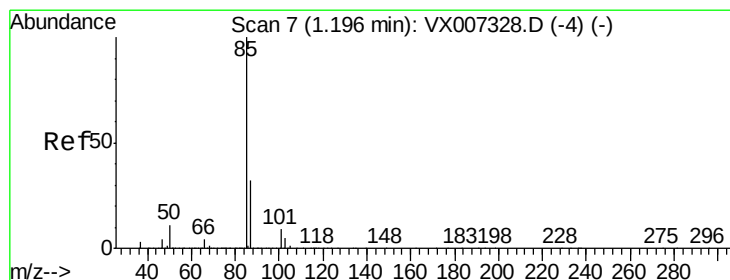
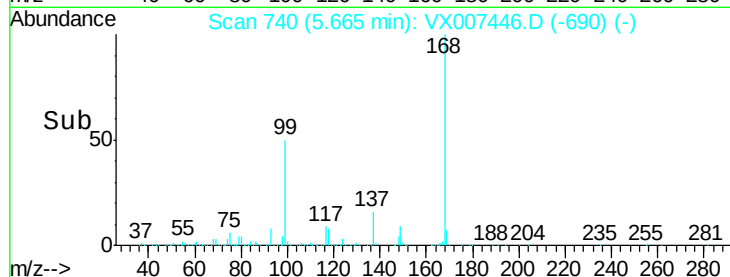
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.207 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX007446.D

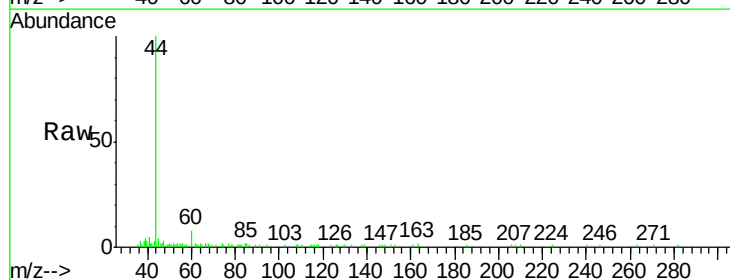
Acq: 08 Feb 2019 17:02

Tgt Ion: 85 Resp: 186

Ion Ratio Lower Upper

85 100

87 0.0 15.8 47.4#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

250

200

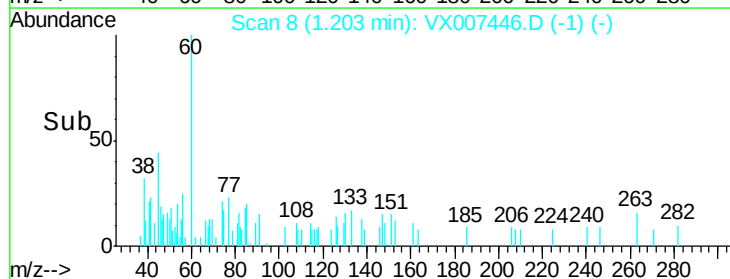
150

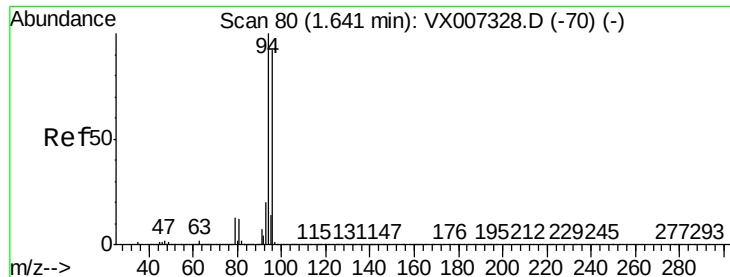
100

50

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX007446.D

Acq: 08 Feb 2019 17:02

Instrument :

MSVOA_X

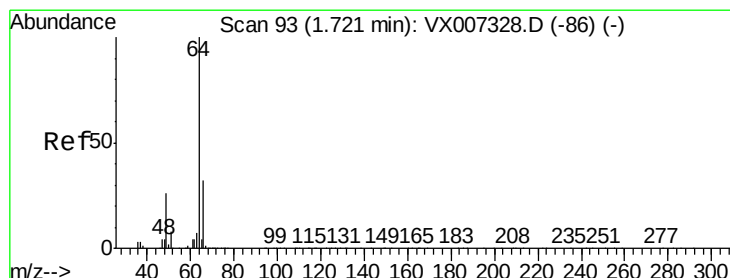
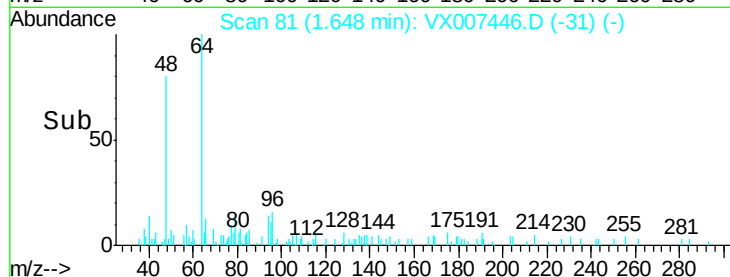
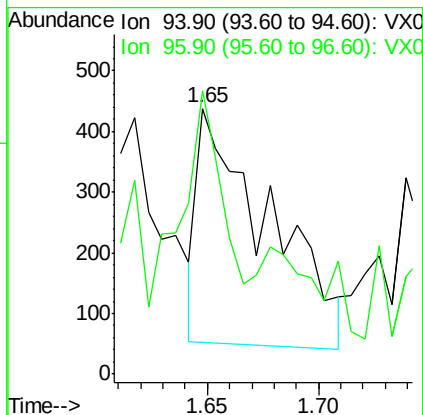
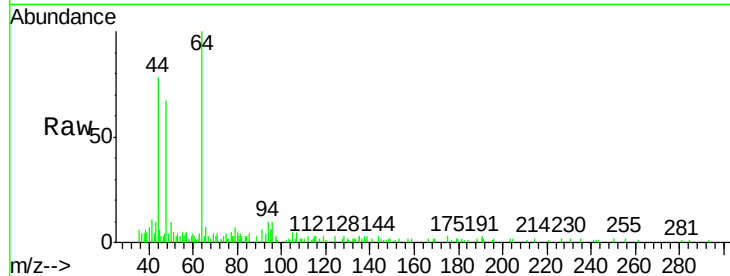
ClientSampleId :

Tot Ion: 94 Resp: 863

Ion Ratio Lower Upper

94 100

96 90.4 73.9 110.9



#6

Chloroethane

Concen: 0.447 ug/l

RT: 1.75 min Scan# 98

Delta R.T. 0.03 min

Lab File: VX007446.D

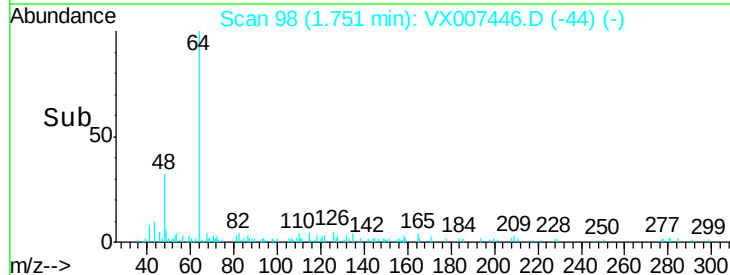
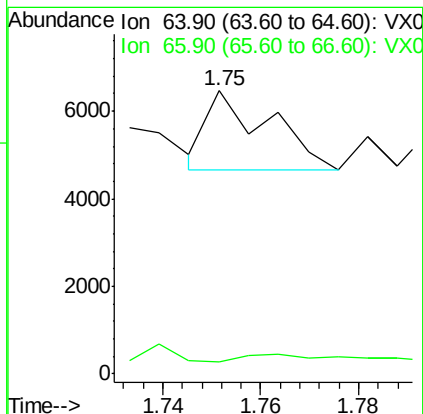
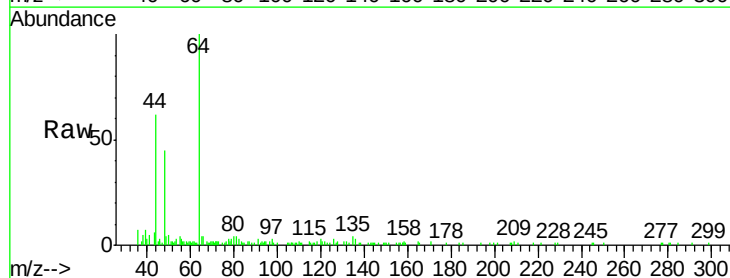
Acq: 08 Feb 2019 17:02

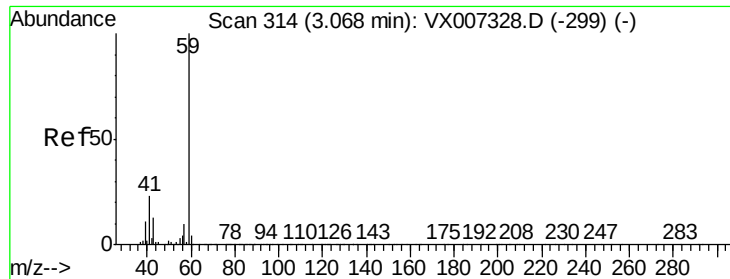
Tgt Ion: 64 Resp: 1606

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#



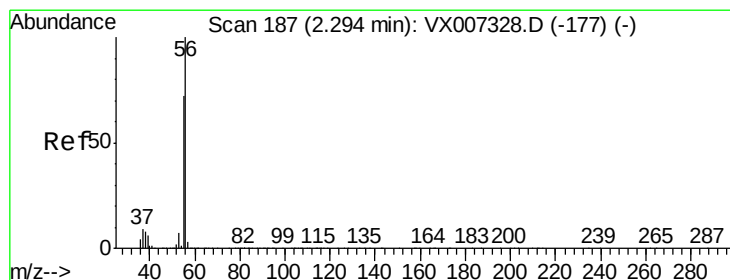
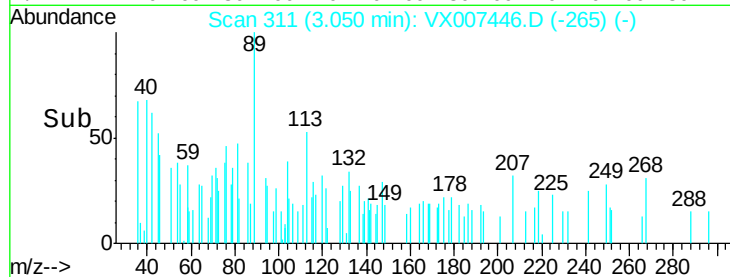
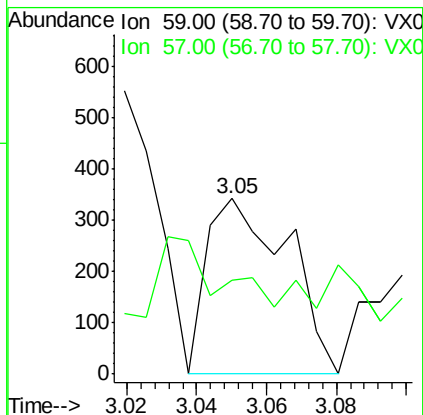
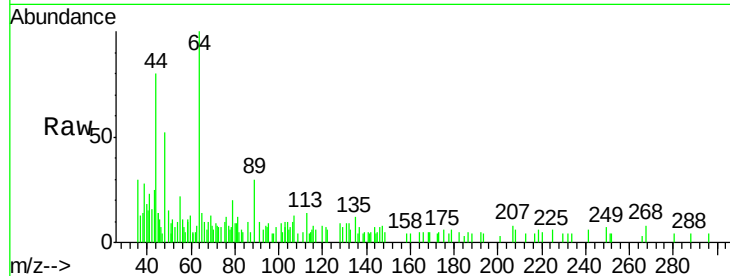


#11

Tert butyl alcohol
Concen: 0.500 ug/l
RT: 3.05 min Scan# 311
Delta R.T. -0.02 min
Lab File: VX007446.D
Acq: 08 Feb 2019 17:02

Instrument :
MSVOA_X
ClientSampled :

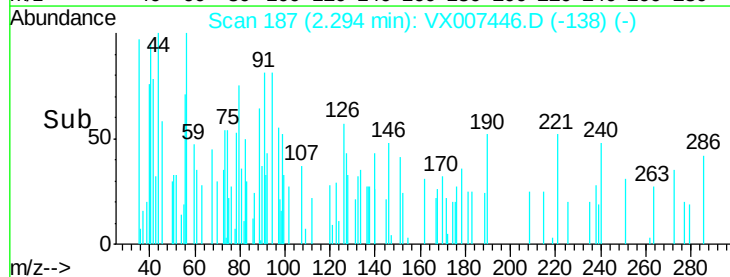
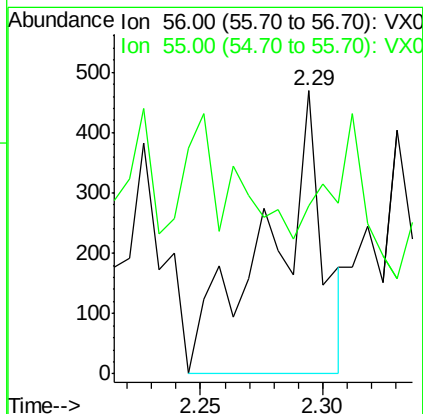
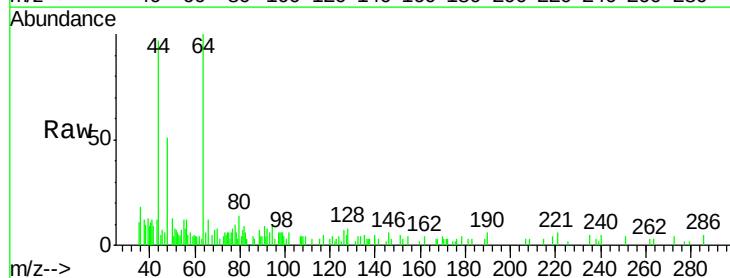
Tot Ion: 59 Resp: 552
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#

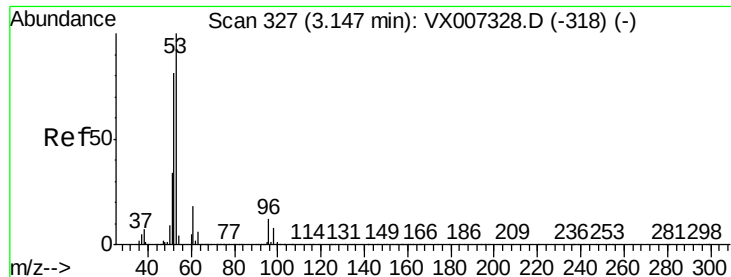


#13

Acrolein
Concen: 1.408 ug/l
RT: 2.29 min Scan# 187
Delta R.T. 0.00 min
Lab File: VX007446.D
Acq: 08 Feb 2019 17:02

Tgt Ion: 56 Resp: 729
Ion Ratio Lower Upper
56 100
55 0.0 56.9 85.3#





#15

Acrylonitrile

Concen: 0.312 ug/l

RT: 3.15 min Scan# 327

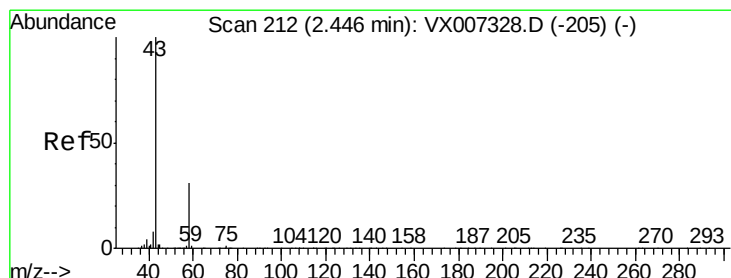
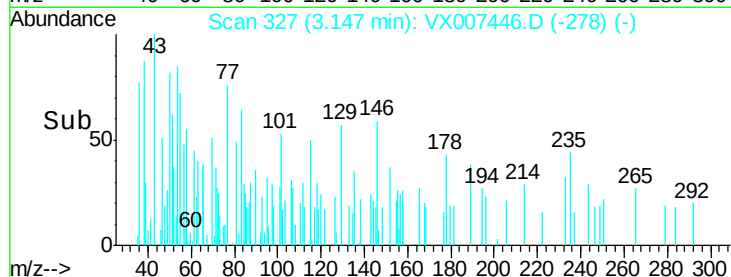
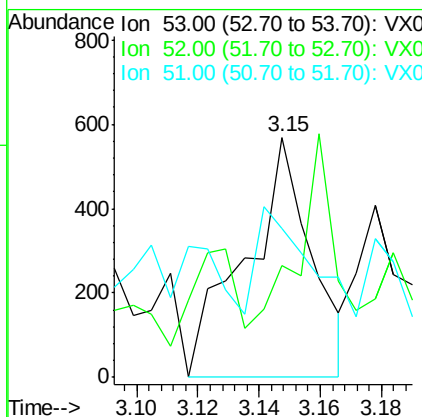
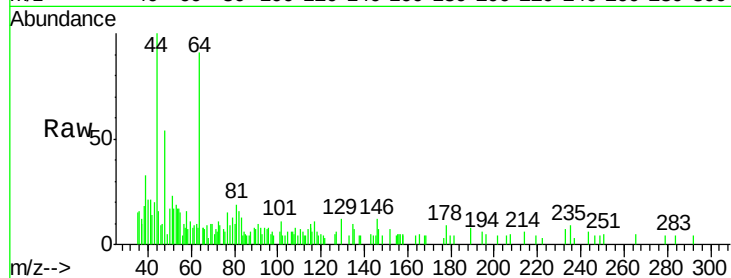
Delta R.T. 0.00 min

Lab File: VX007446.D

Acq: 08 Feb 2019 17:02

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	53	Resp:	851
Ion	Ratio	Lower	Upper
53	100		
52	36.7	66.4	99.6#
51	34.5	28.4	42.6



#16

Acetone

Concen: 5.118 ug/l

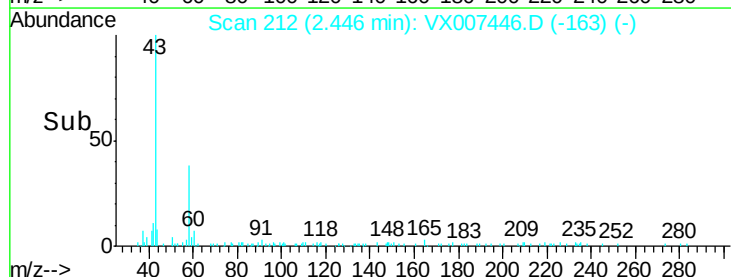
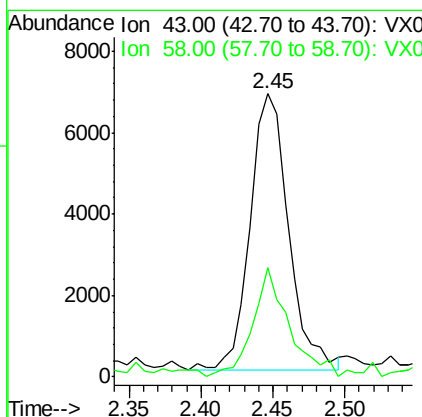
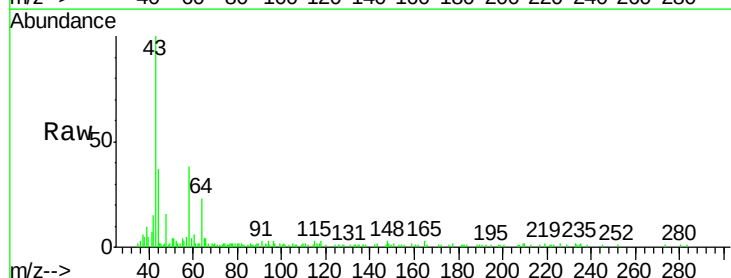
RT: 2.45 min Scan# 212

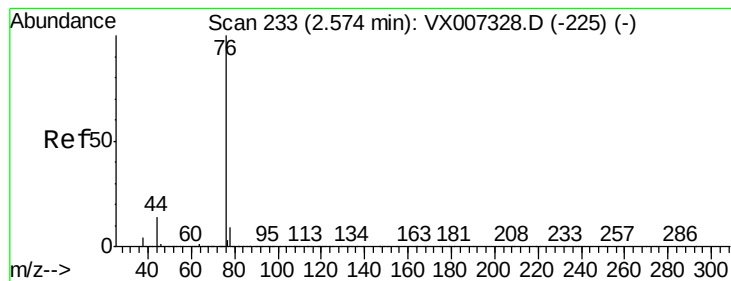
Delta R.T. 0.00 min

Lab File: VX007446.D

Acq: 08 Feb 2019 17:02

Tgt Ion:	43	Resp:	12504
Ion	Ratio	Lower	Upper
43	100		
58	39.4	24.9	37.3#





#17

Carbon Disulfide

Concen: 2.324 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007446.D

Acq: 08 Feb 2019 17:02

Instrument :

MSVOA_X

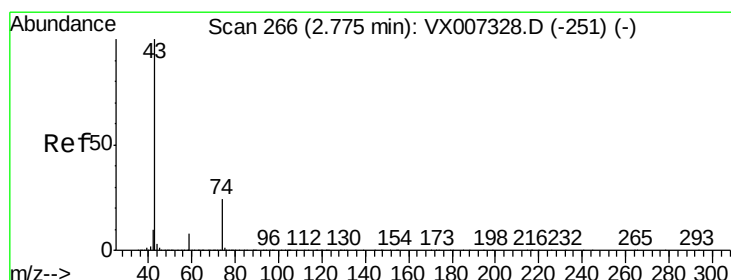
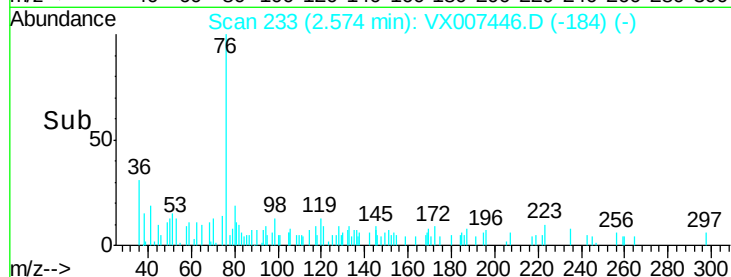
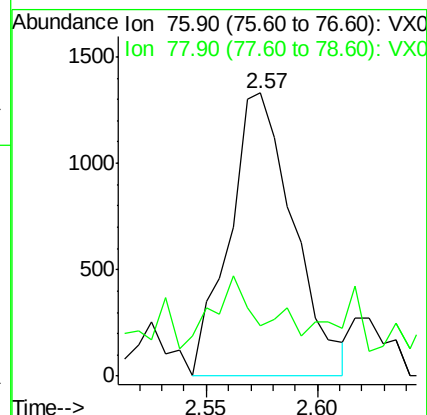
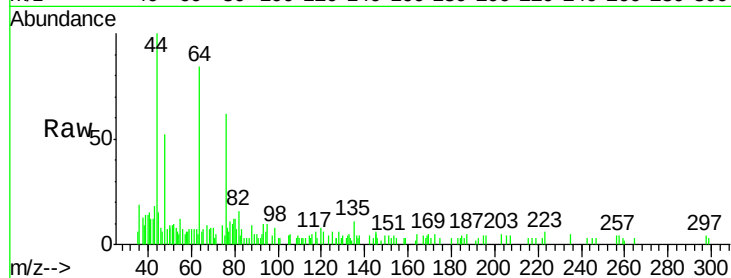
ClientSampled :

Tot Ion: 76 Resp: 2665

Ion Ratio Lower Upper

76 100

78 3.6 7.1 10.7#



#18

Methyl Acetate

Concen: 0.863 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX007446.D

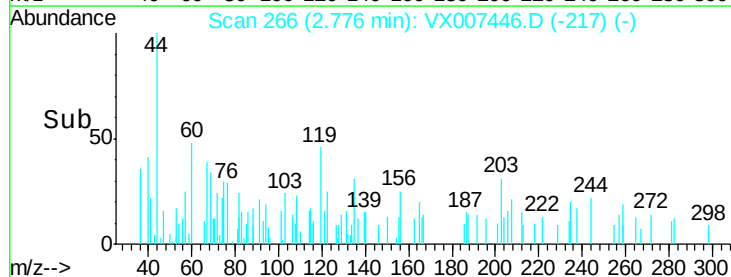
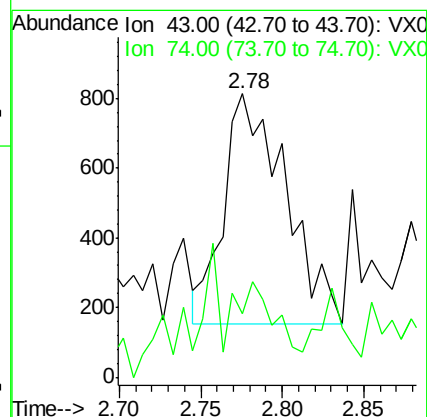
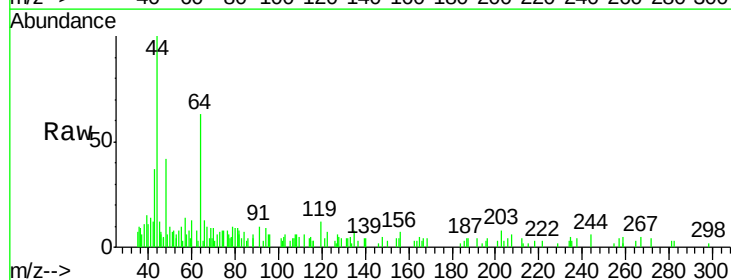
Acq: 08 Feb 2019 17:02

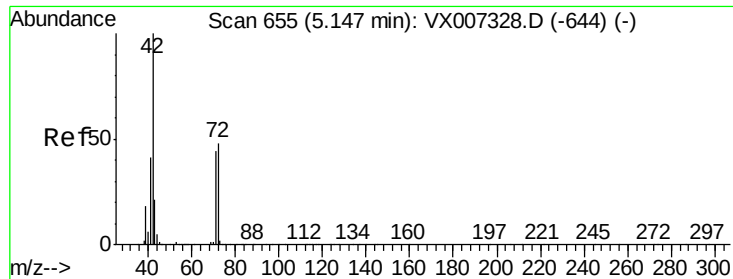
Tgt Ion: 43 Resp: 1737

Ion Ratio Lower Upper

43 100

74 11.9 19.4 29.2#

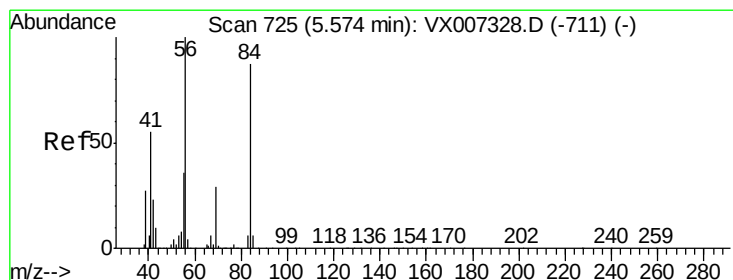
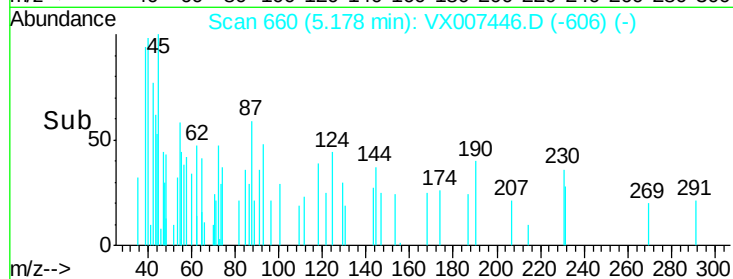
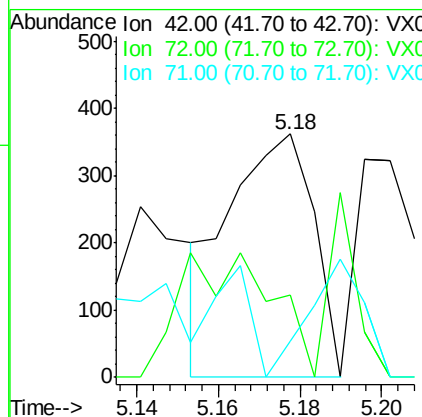
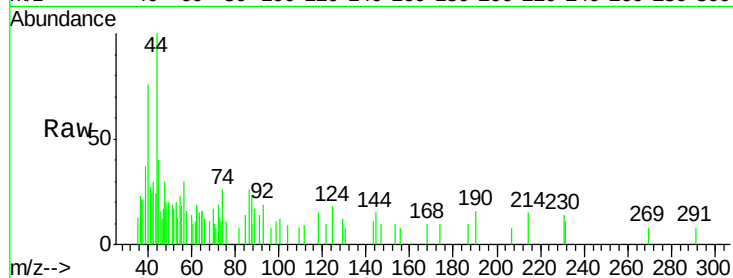




#29
Tetrahydrofuran
Concen: 0.239 ug/l
RT: 5.18 min Scan# 660
Delta R.T. 0.03 min
Lab File: VX007446.D
Acq: 08 Feb 2019 17:02

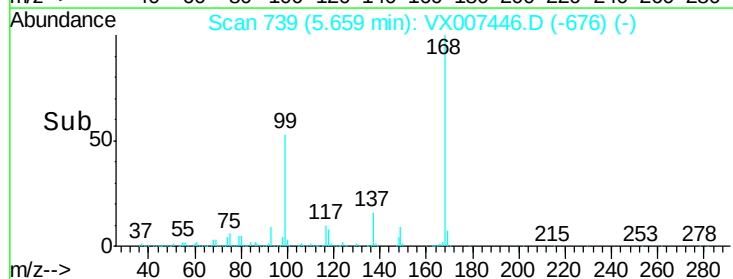
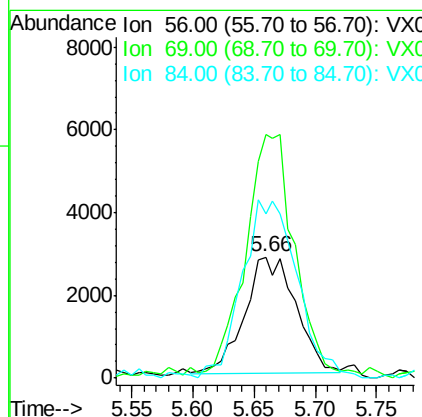
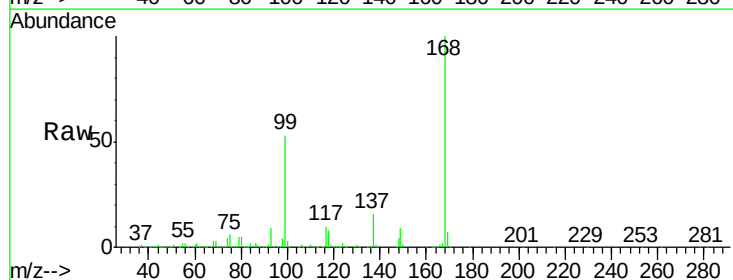
Instrument :
MSVOA_X
ClientSampled :

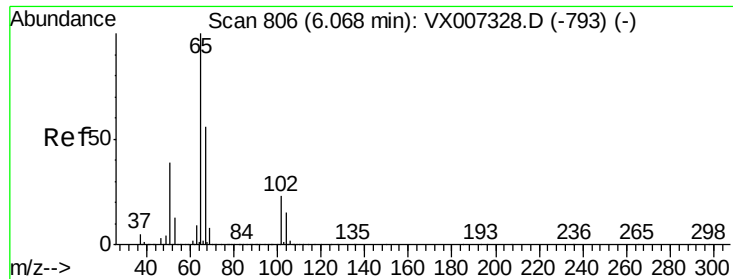
Tot Ion: 42 Resp: 523
Ion Ratio Lower Upper
42 100
72 55.6 37.6 56.4
71 0.0 34.6 51.8#



#31
Cyclohexane
Concen: 1.113 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX007446.D
Acq: 08 Feb 2019 17:02

Tgt Ion: 56 Resp: 8252
Ion Ratio Lower Upper
56 100
69 204.7 23.0 34.6#
84 139.6 69.8 104.6#

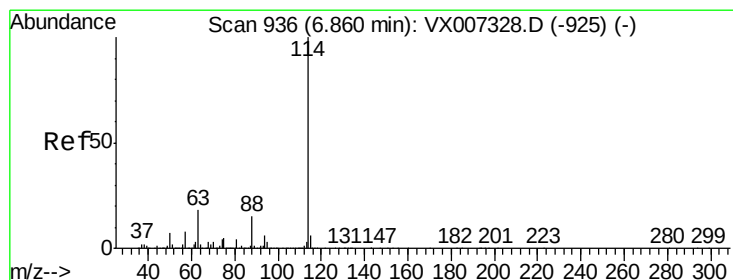
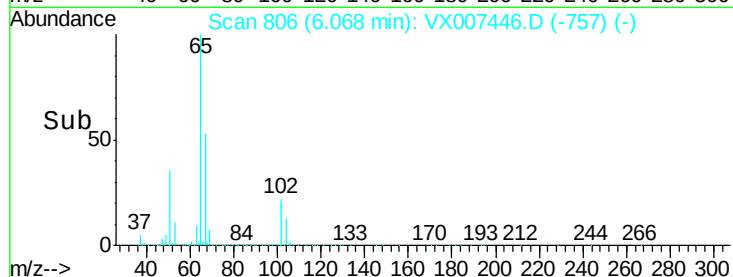
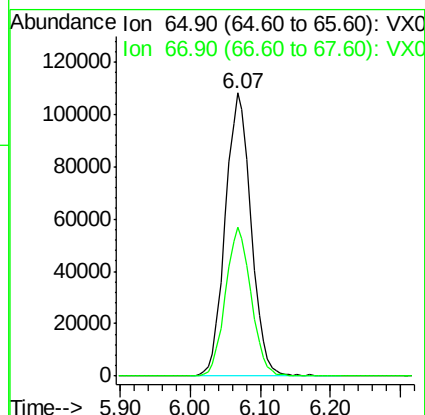
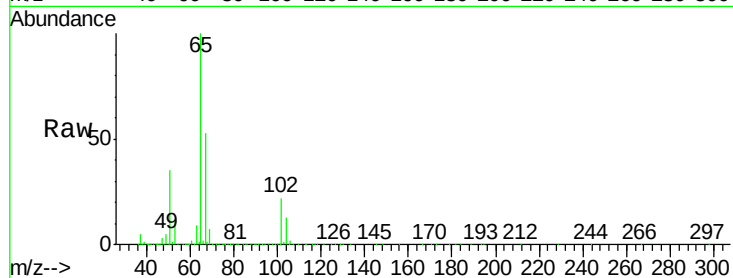




#33
 1,2-Dichloroethane-d4
 Concen: 51.949 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX007446.D
 Acq: 08 Feb 2019 17:02

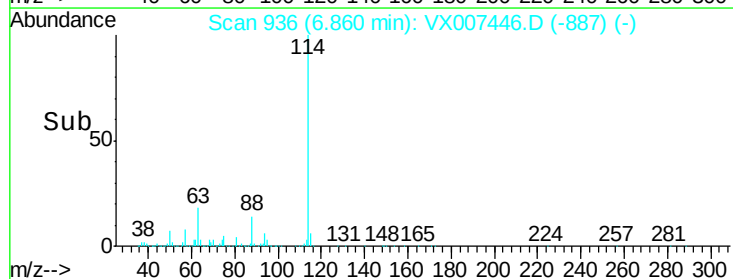
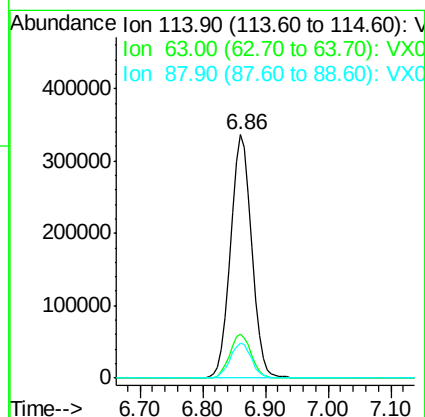
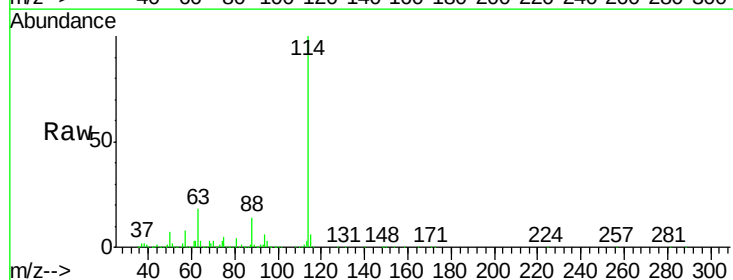
Instrument :
 MSVOA_X
 ClientSampleId :

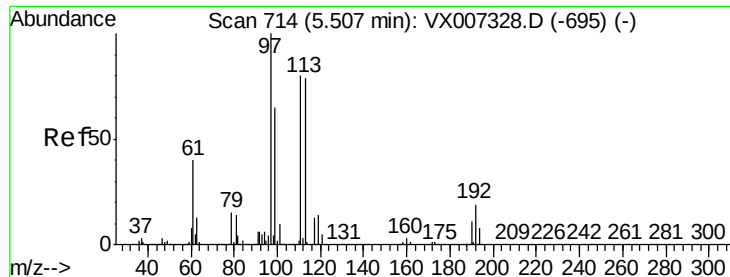
Tot Ion: 65 Resp: 277091
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 108.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX007446.D
 Acq: 08 Feb 2019 17:02

Tgt Ion: 114 Resp: 785873
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 35.6
 88 14.1 0.0 29.6





#35

Dibromofluoromethane

Concen: 48.734 ug/l

RT: 5.51 min Scan# 714

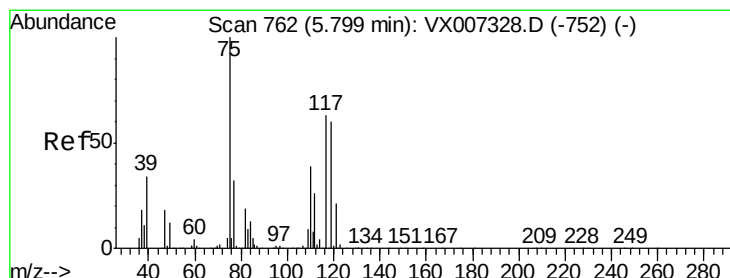
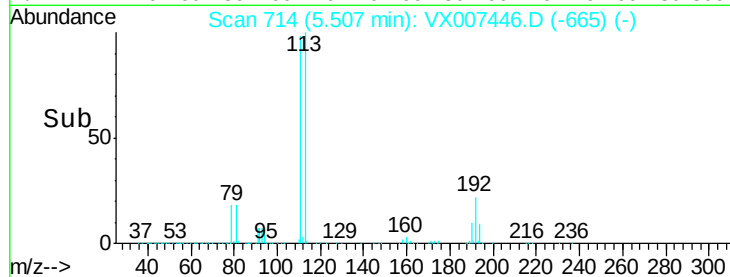
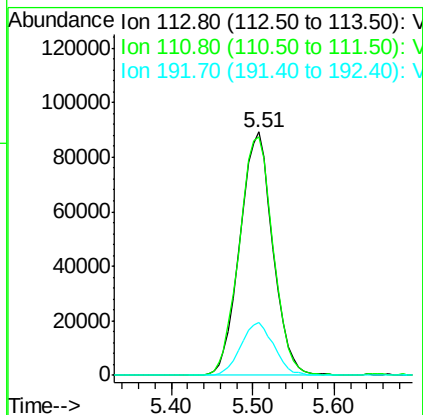
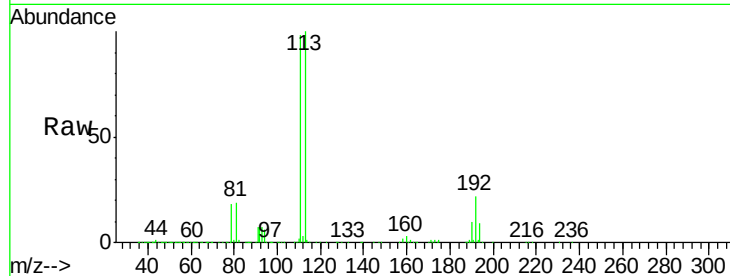
Delta R.T. 0.00 min

Lab File: VX007446.D

Acq: 08 Feb 2019 17:02

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	113	Resp:	249194
Ion	Ratio	Lower	Upper
113	100		
111	101.5	81.8	122.8
192	22.0	18.5	27.7



#36

1,1-Dichloropropene

Concen: 4.522 ug/l

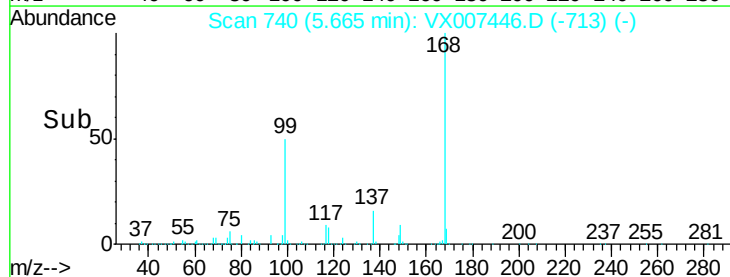
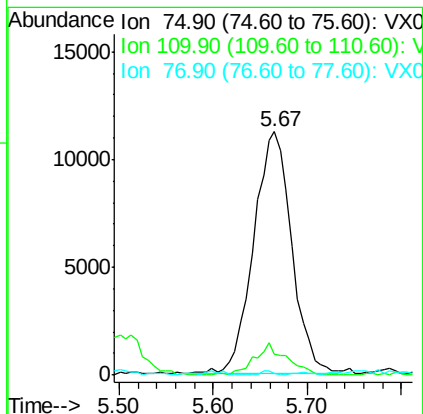
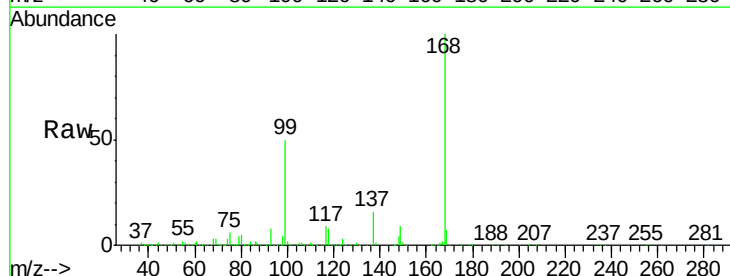
RT: 5.67 min Scan# 740

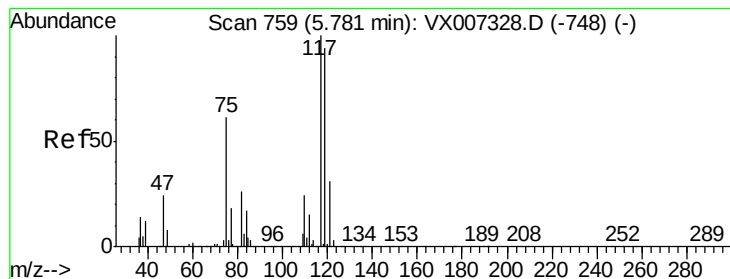
Delta R.T. -0.13 min

Lab File: VX007446.D

Acq: 08 Feb 2019 17:02

Tgt Ion:	75	Resp:	31884
Ion	Ratio	Lower	Upper
75	100		
110	11.1	20.0	59.9#
77	0.6	24.7	37.1#





#38

Carbon Tetrachloride

Concen: 6.653 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007446.D

Acq: 08 Feb 2019 17:02

Instrument :

MSVOA_X

ClientSampled :

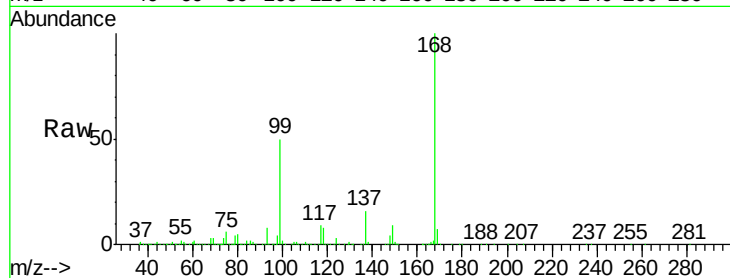
Tot Ion:117 Resp: 45512

Ion Ratio Lower Upper

117 100

119 4.8 75.3 112.9#

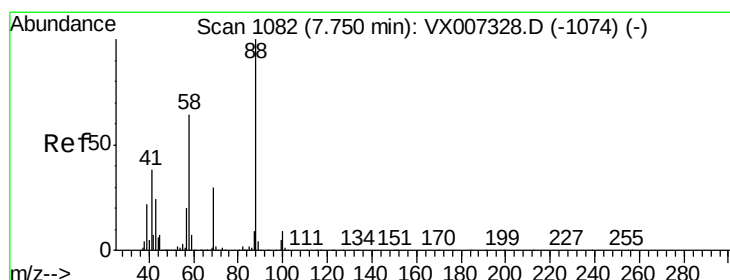
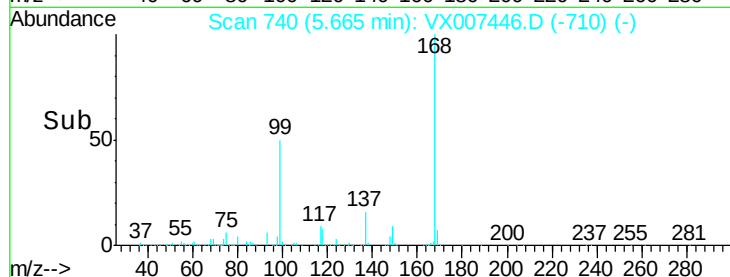
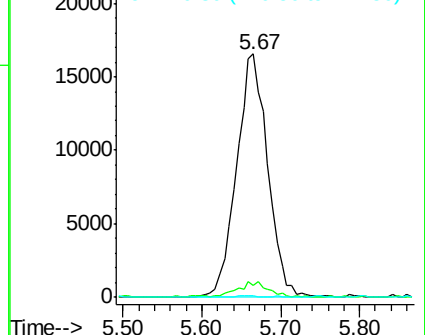
121 0.5 25.0 37.4#



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



#49

1,4-Dioxane

Concen: 7.490 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.00 min

Lab File: VX007446.D

Acq: 08 Feb 2019 17:02

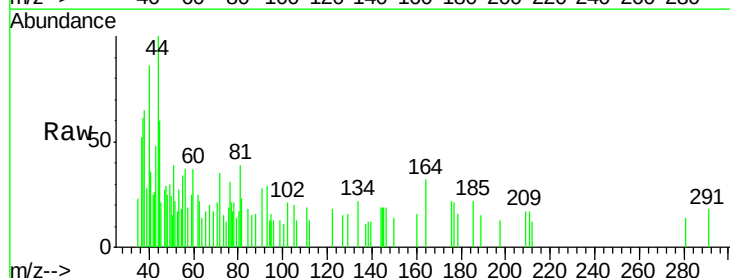
Tgt Ion: 88 Resp: 77

Ion Ratio Lower Upper

88 100

43 407.8 24.2 36.4#

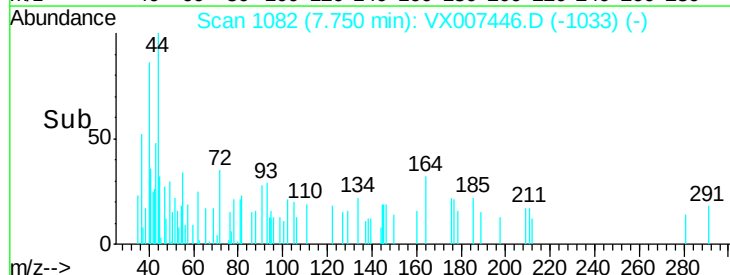
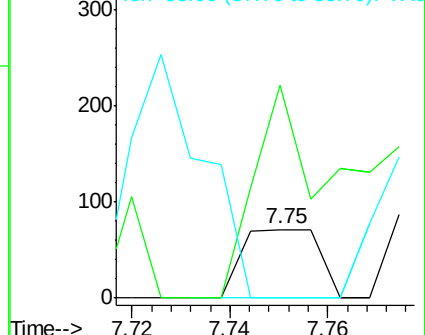
58 0.0 53.0 79.4#

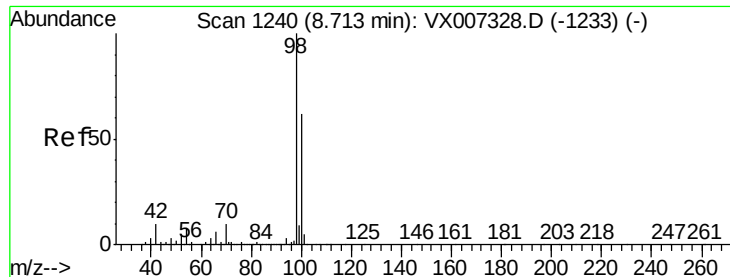


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.220 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007446.D

Acq: 08 Feb 2019 17:02

Instrument :

MSVOA_X

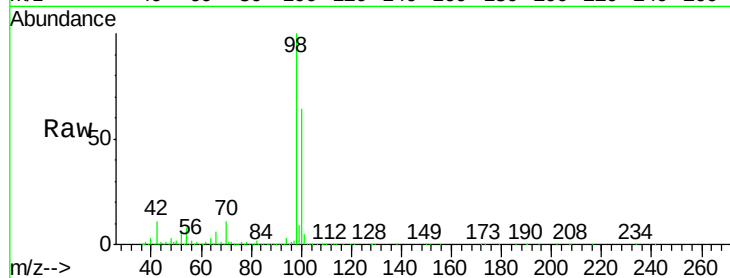
ClientSampleId :

Tot Ion: 98 Resp: 933773

Ion Ratio Lower Upper

98 100

100 64.1 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

600000

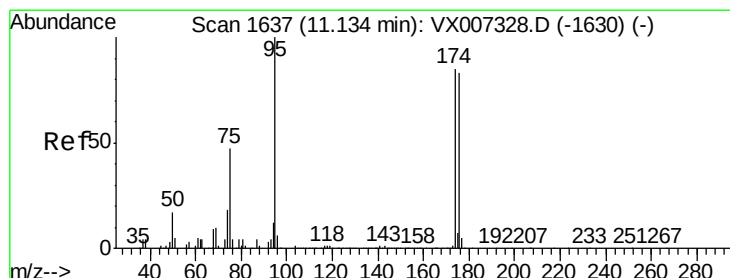
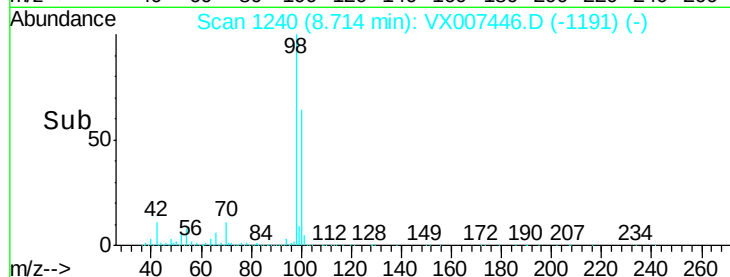
400000

200000

0

8.60 8.70 8.80

Time-->



#62

4-Bromofluorobenzene

Concen: 47.956 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007446.D

Acq: 08 Feb 2019 17:02

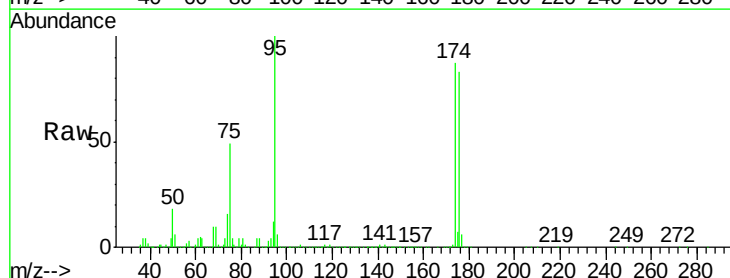
Tgt Ion: 95 Resp: 332170

Ion Ratio Lower Upper

95 100

174 93.7 0.0 189.2

176 89.3 0.0 186.2



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

300000

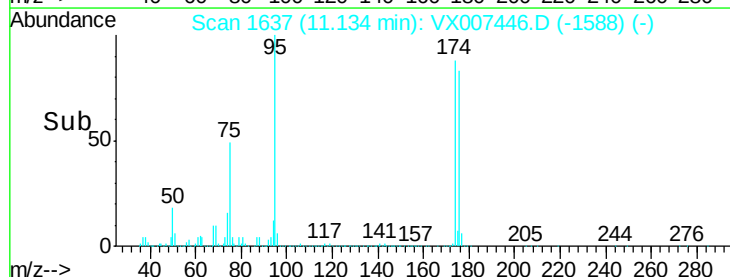
200000

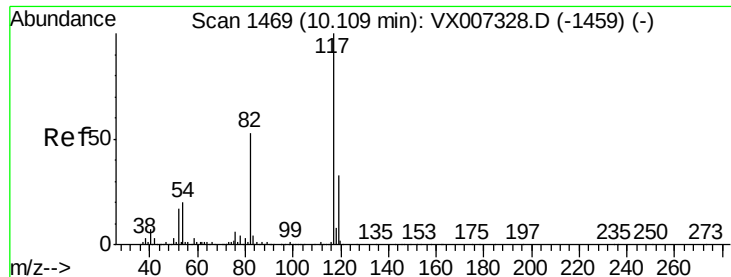
100000

0

11.10 11.20

Time-->

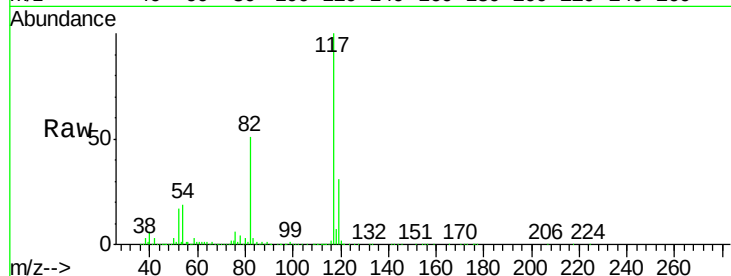




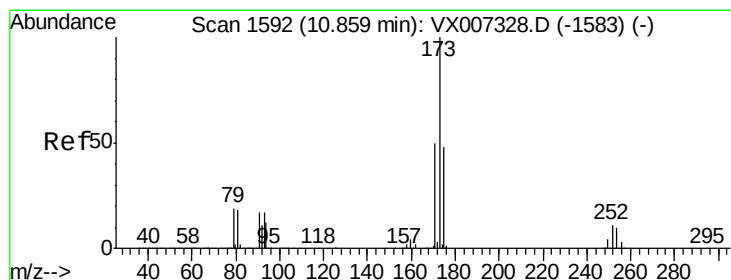
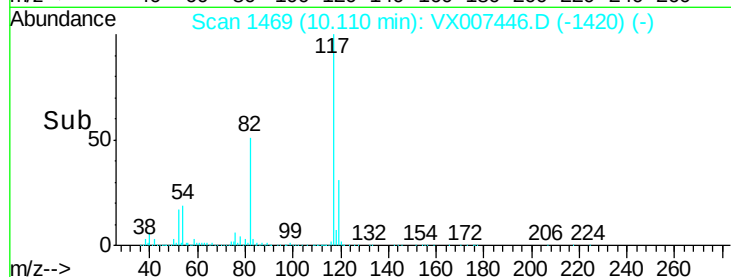
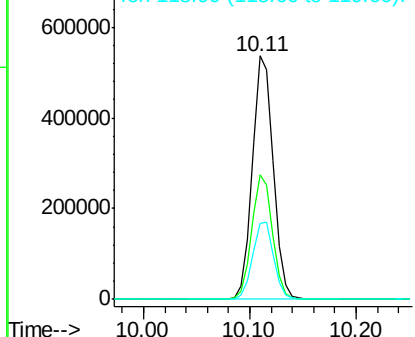
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX007446.D
Acq: 08 Feb 2019 17:02

Instrument :
MSVOA_X
ClientSampled :

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.4	42.1	63.1
119	31.3	26.5	39.7

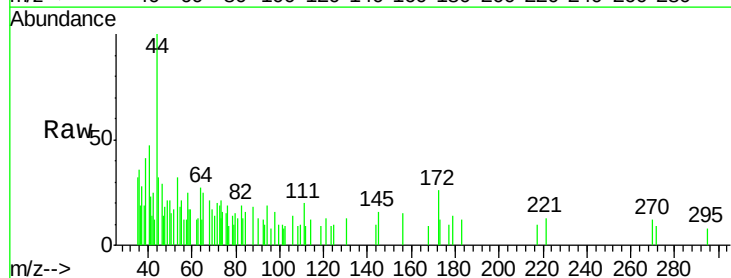


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

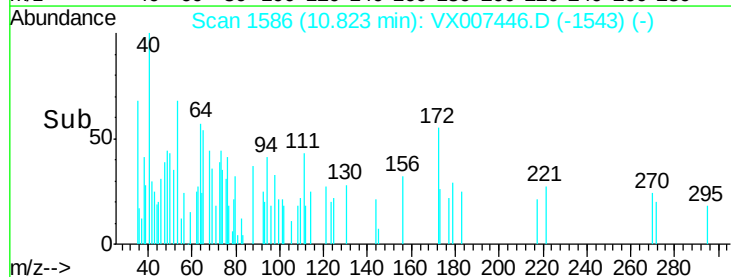
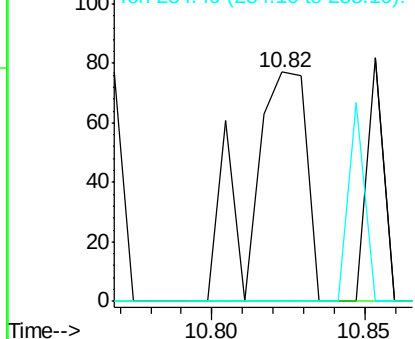


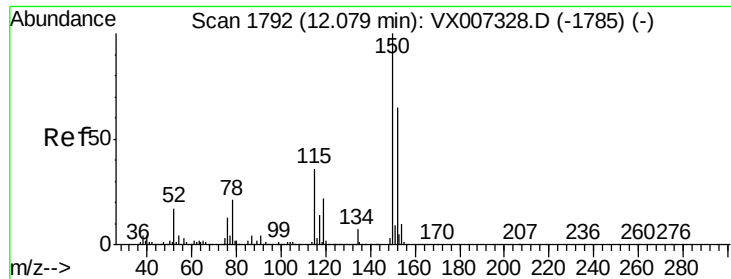
#71
Bromoform
Concen: 4.049 ug/l
RT: 10.82 min Scan# 1586
Delta R.T. -0.04 min
Lab File: VX007446.D
Acq: 08 Feb 2019 17:02

Tgt Ion	Ratio	Lower	Upper
173	100		
175	0.0	24.2	72.6#
254	0.0	0.2	0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): 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: VX007446.D

Acq: 08 Feb 2019 17:02

Instrument :

MSVOA_X

ClientSampleId :

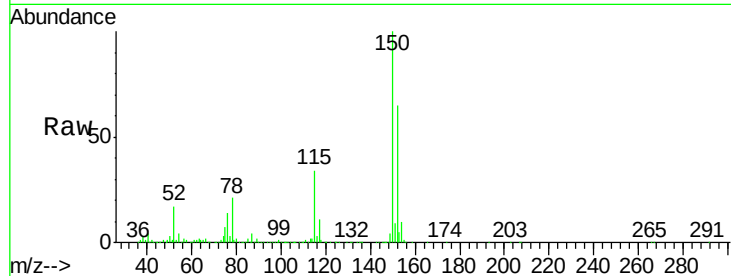
Tot Ion:152 Resp: 357939

Ion Ratio Lower Upper

152 100

115 55.0 38.0 114.0

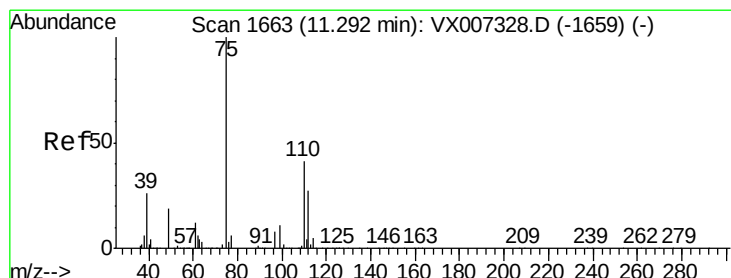
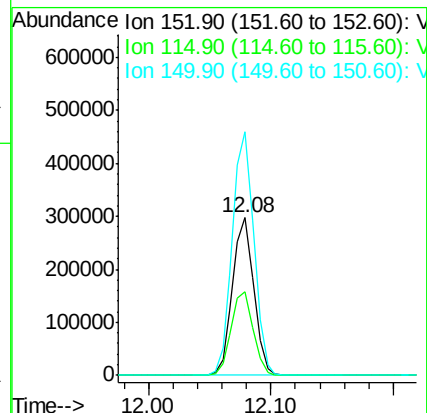
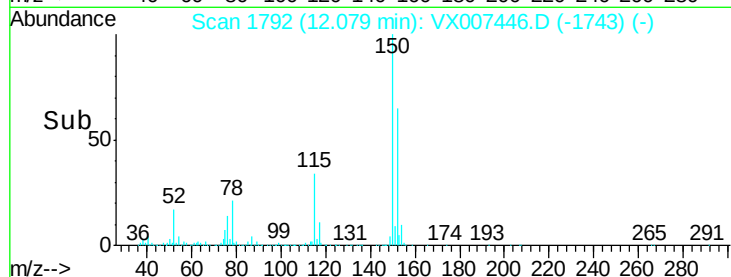
150 156.3 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.739 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007446.D

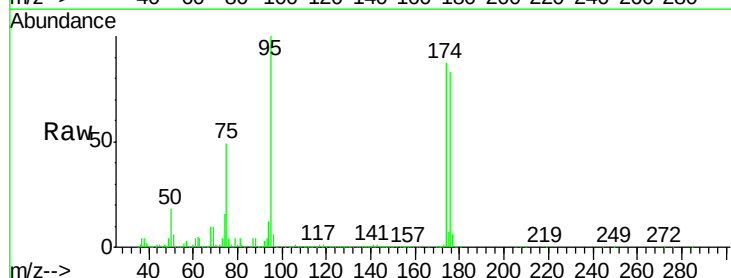
Acq: 08 Feb 2019 17:02

Tgt Ion: 75 Resp: 158315

Ion Ratio Lower Upper

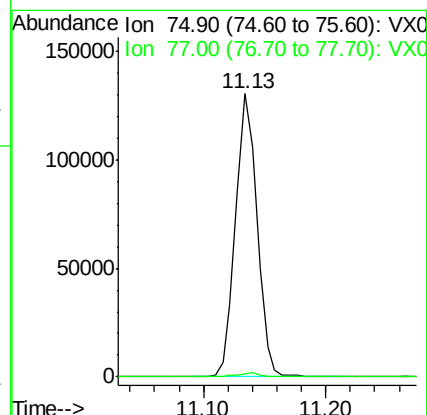
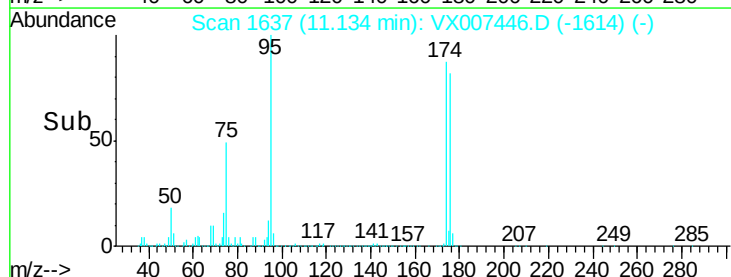
75 100

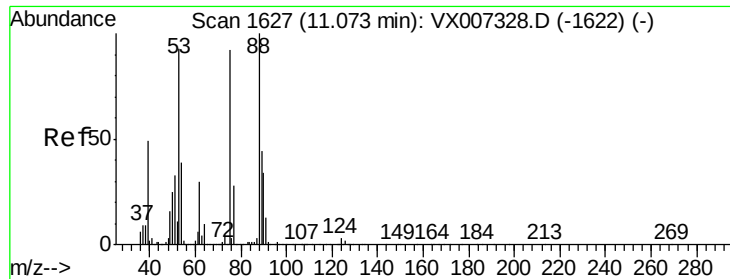
77 1.5 23.0 69.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 68.568 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007446.D

Acq: 08 Feb 2019 17:02

Instrument :

MSVOA_X

ClientSampleId :

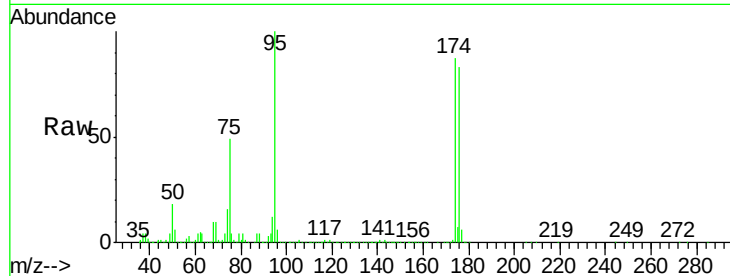
Tot Ion: 75 Resp: 158315

Ion Ratio Lower Upper

75 100

53 0.1 81.0 121.6#

89 0.4 41.4 62.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

