

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX022519\
 Data File : VX007691.D
 Acq On : 26 Feb 2019 03:21
 Operator : JC/SP
 Sample : K1603-22
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB

Quant Time: Feb 26 04:46:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X022519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 26 01:53:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	361789	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	604722	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	569796	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	261350	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	213006	47.53	ug/l	0.00
Spiked Amount			Recovery	=	95.06%	
35) Dibromofluoromethane	5.50	113	198276	49.05	ug/l	0.00
Spiked Amount			Recovery	=	98.10%	
50) Toluene-d8	8.71	98	731973	47.30	ug/l	0.00
Spiked Amount			Recovery	=	94.60%	
62) 4-Bromofluorobenzene	11.13	95	260797	45.91	ug/l	0.00
Spiked Amount			Recovery	=	91.82%	

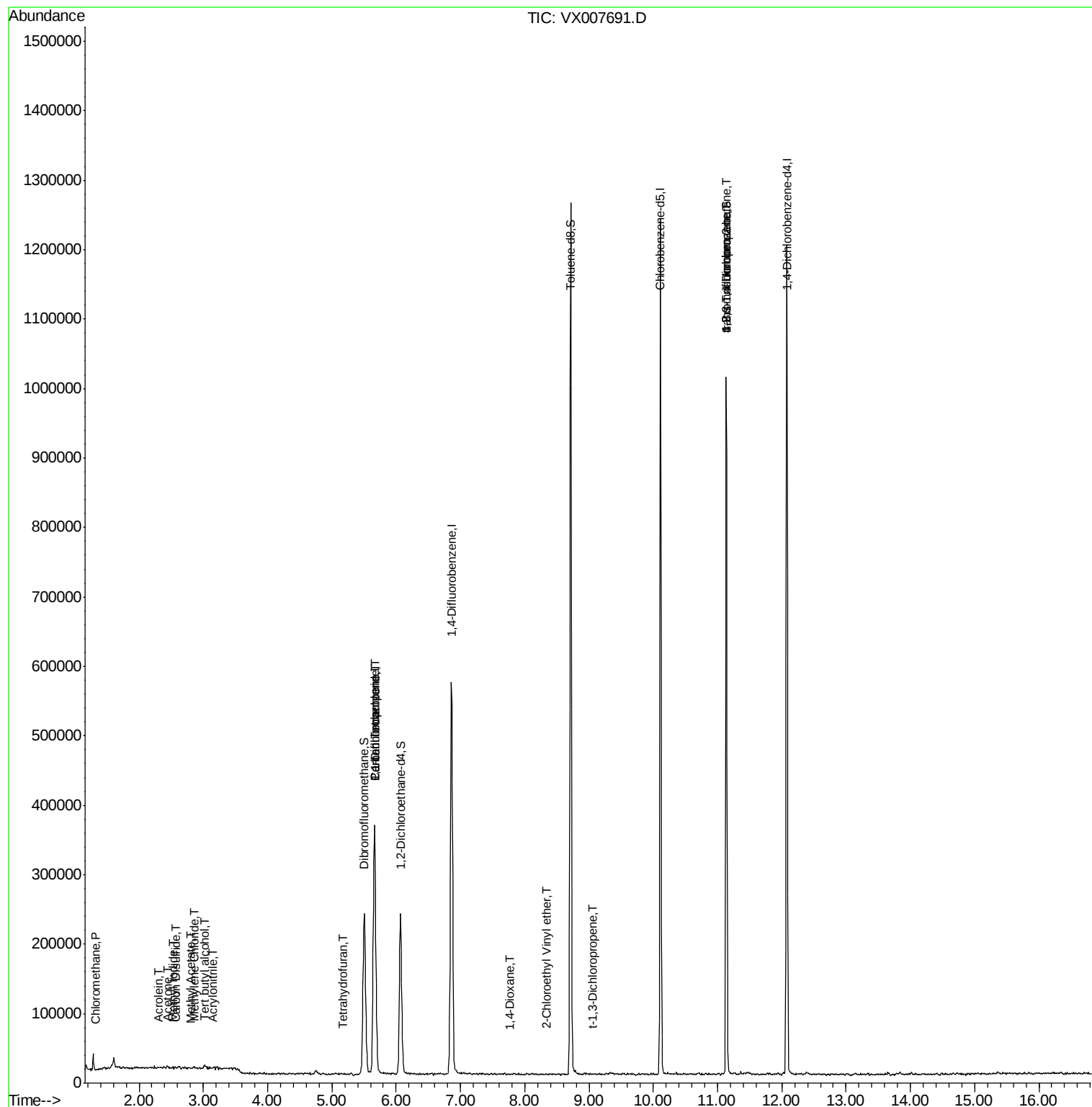
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1461	0.396	ug/l	98
5) Bromomethane	1.66	94	679	Below Cal		81
10) Methyl Iodide	2.53	142	1662	0.380	ug/l #	80
11) Tert butyl alcohol	3.02	59	3104	3.651	ug/l #	81
13) Acrolein	2.31	56	188	0.249	ug/l #	14
15) Acrylonitrile	3.15	53	481	0.240	ug/l #	18
16) Acetone	2.45	43	3810	1.912	ug/l #	65
17) Carbon Disulfide	2.57	76	2856	0.324	ug/l #	78
18) Methyl Acetate	2.79	43	1118	0.257	ug/l #	75
20) Methylene Chloride	2.86	84	1408	0.383	ug/l #	61
29) Tetrahydrofuran	5.17	42	455	0.227	ug/l #	63
36) 1,1-Dichloropropene	5.66	75	24403	4.489	ug/l #	40
38) Carbon Tetrachloride	5.66	117	34767	6.366	ug/l #	18
49) 1,4-Dioxane	7.76	88	240	2.281	ug/l #	23
53) t-1,3-Dichloropropene	9.05	75	498	2.875	ug/l #	43
58) 2-Chloroethyl Vinyl ether	8.34	63	733	0.212	ug/l	91
76) 1,2,3-Trichloropropane	11.13	75	124461	22.342	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	124461	59.275	ug/l #	9

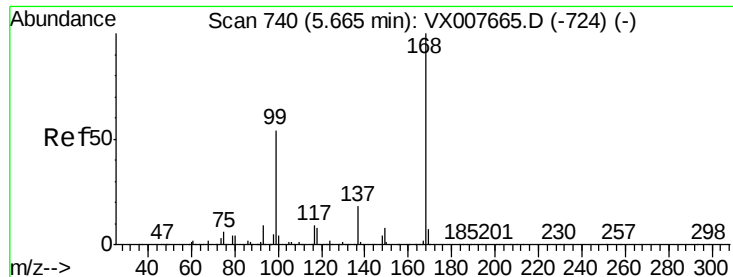
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX007691.D

Acq: 26 Feb 2019 03:21

Instrument :

MSVOA_X

ClientSampled :

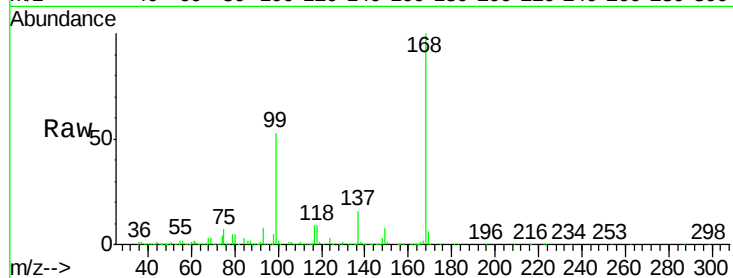
TB

Tot Ion:168 Resp: 361789

Ion Ratio Lower Upper

168 100

99 53.1 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

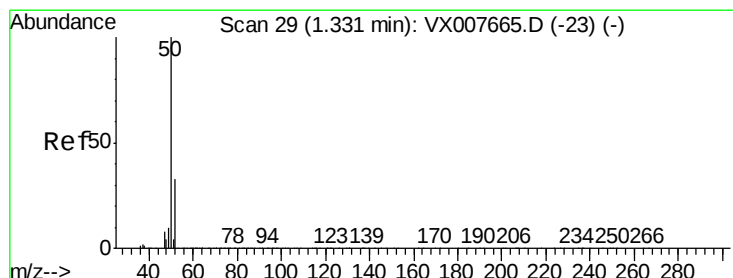
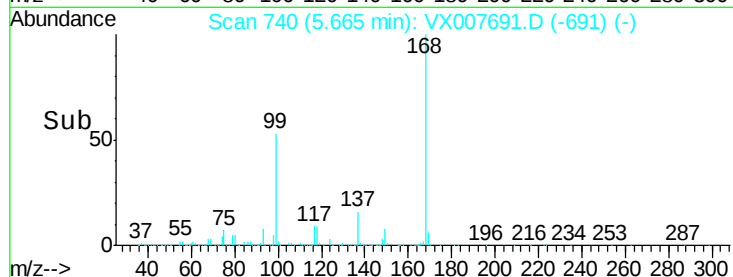
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.396 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX007691.D

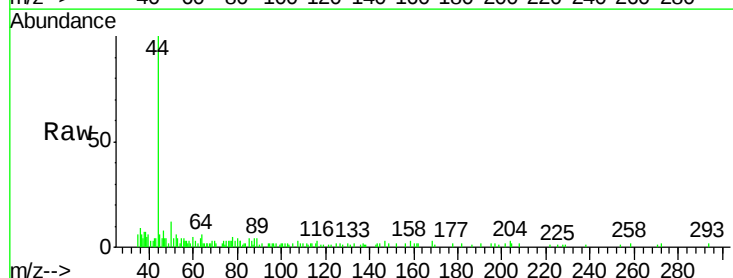
Acq: 26 Feb 2019 03:21

Tgt Ion: 50 Resp: 1461

Ion Ratio Lower Upper

50 100

52 31.4 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

600

500

400

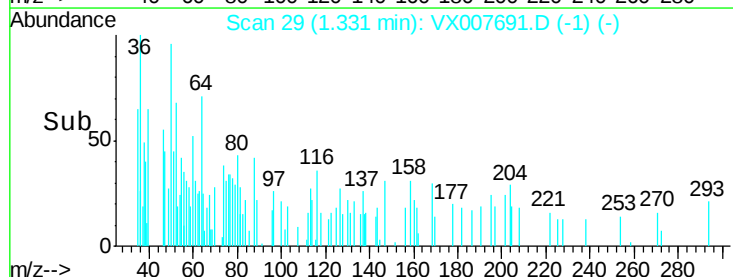
300

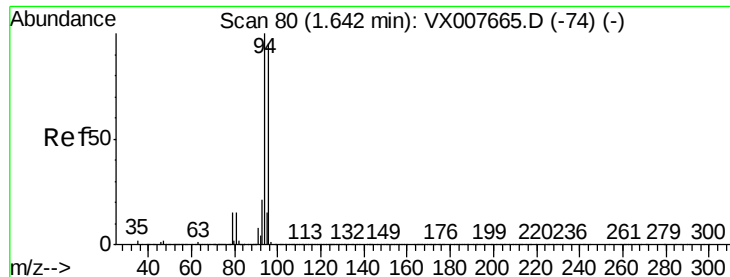
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX007691.D

Acq: 26 Feb 2019 03:21

Instrument :

MSVOA_X

ClientSampled :

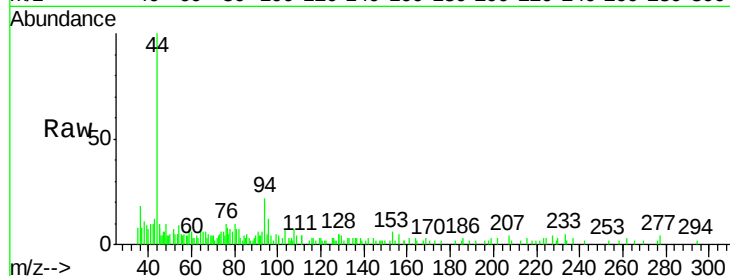
TB

Tot Ion: 94 Resp: 679

Ion Ratio Lower Upper

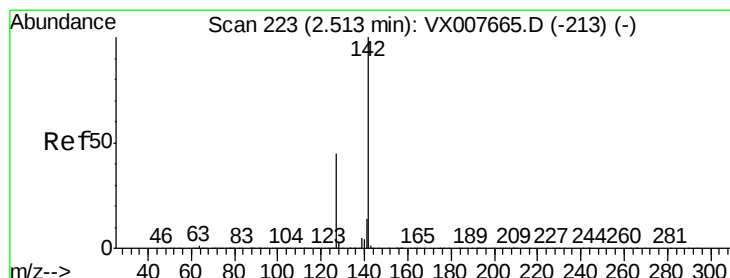
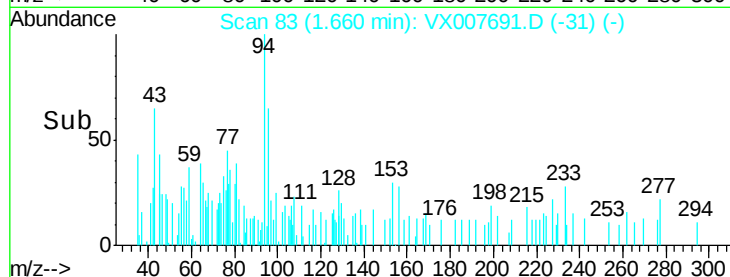
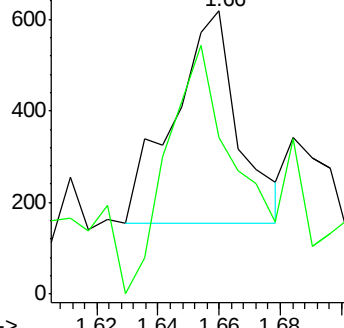
94 100

96 74.1 73.9 110.9



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 0.380 ug/l

RT: 2.53 min Scan# 225

Delta R.T. 0.01 min

Lab File: VX007691.D

Acq: 26 Feb 2019 03:21

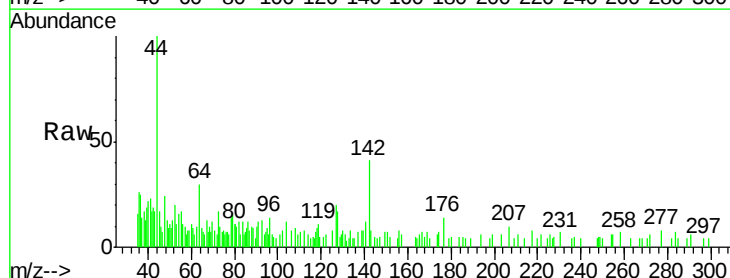
Tgt Ion: 142 Resp: 1662

Ion Ratio Lower Upper

142 100

127 30.7 33.7 50.5#

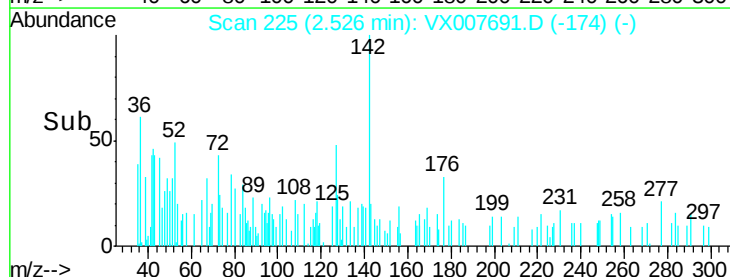
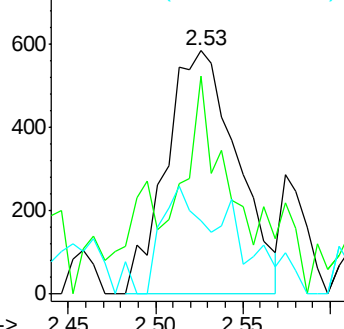
141 25.3 11.3 16.9#

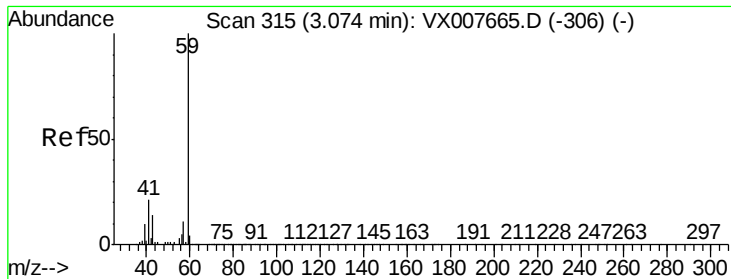


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

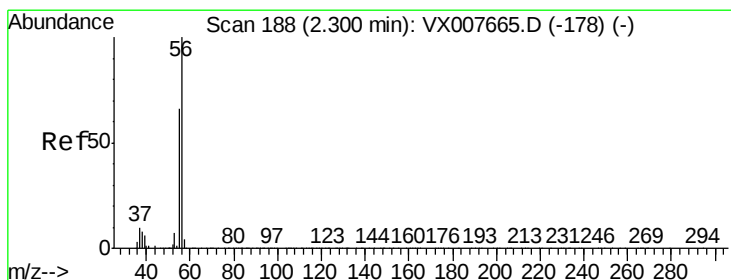
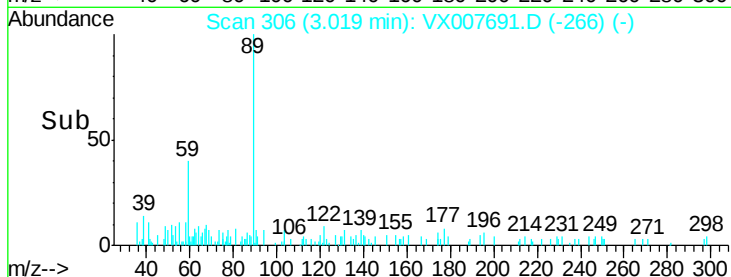
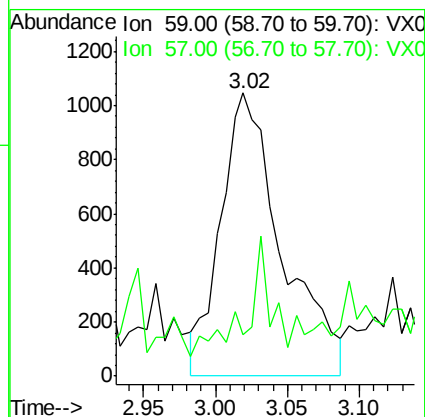
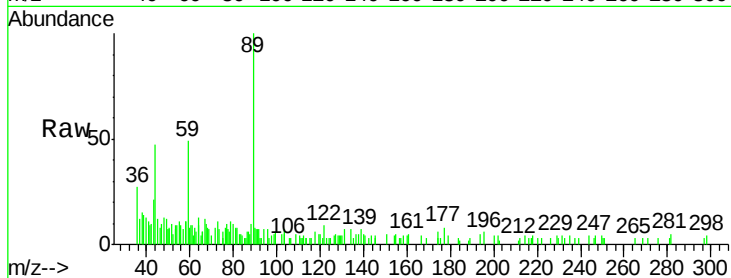




#11
Tert butvl alcohol
Concen: 3.651 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.05 min
Lab File: VX007691.D
Acq: 26 Feb 2019 03:21

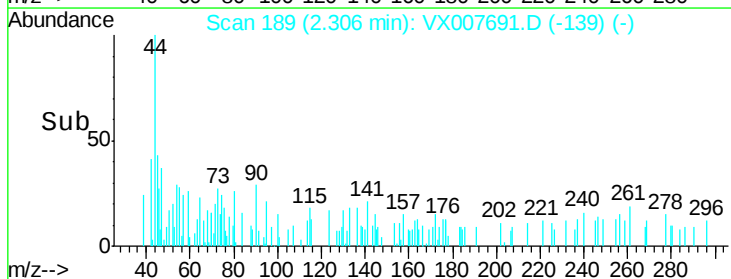
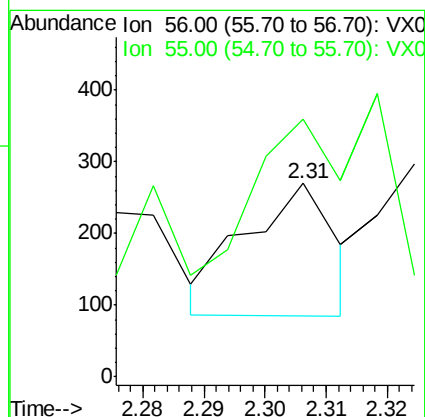
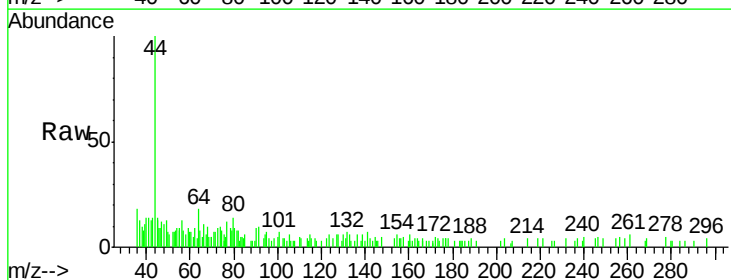
Instrument :
MSVOA_X
ClientSampled :
TB

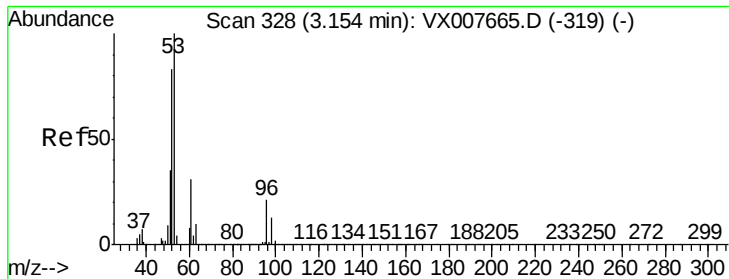
Tot Ion: 59 Resp: 3104
Ion Ratio Lower Upper
59 100
57 17.0 8.1 12.1#



#13
Acrolein
Concen: 0.249 ug/l
RT: 2.31 min Scan# 189
Delta R.T. 0.01 min
Lab File: VX007691.D
Acq: 26 Feb 2019 03:21

Tgt Ion: 56 Resp: 188
Ion Ratio Lower Upper
56 100
55 0.0 56.9 85.3#





#15

Acrylonitrile

Concen: 0.240 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.01 min

Lab File: VX007691.D

Acq: 26 Feb 2019 03:21

Instrument :

MSVOA_X

ClientSampled :

TB

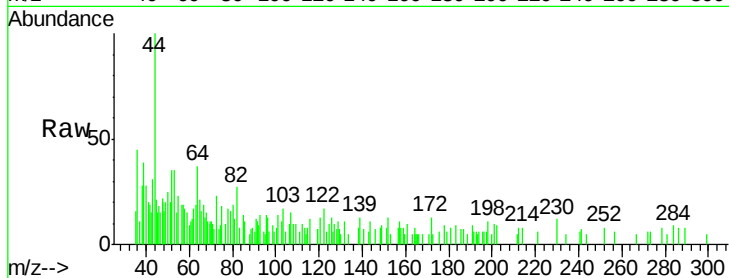
Tot Ion: 53 Resp: 481

Ion Ratio Lower Upper

53 100

52 0.0 66.4 99.6#

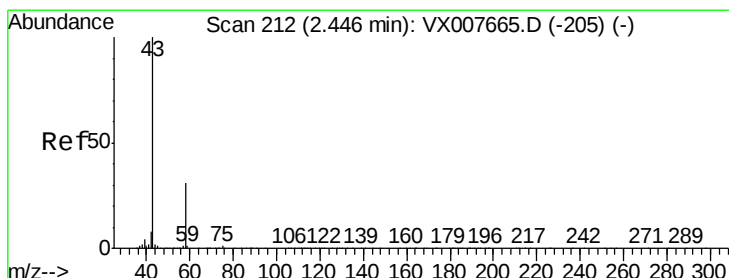
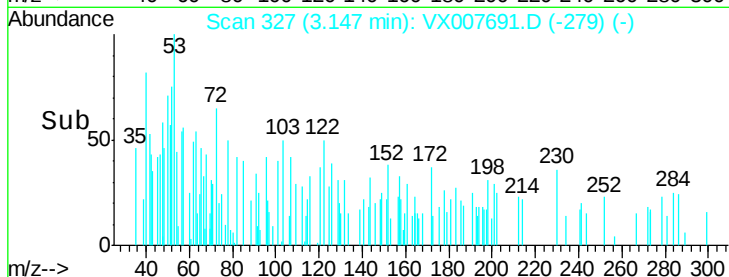
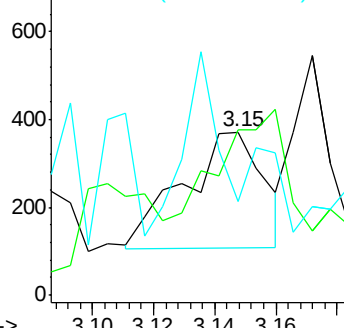
51 70.5 28.4 42.6#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 1.912 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007691.D

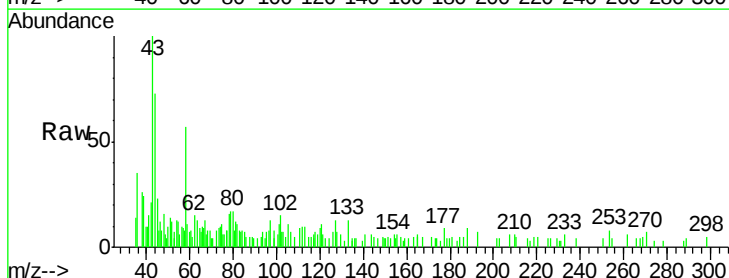
Acq: 26 Feb 2019 03:21

Tgt Ion: 43 Resp: 3810

Ion Ratio Lower Upper

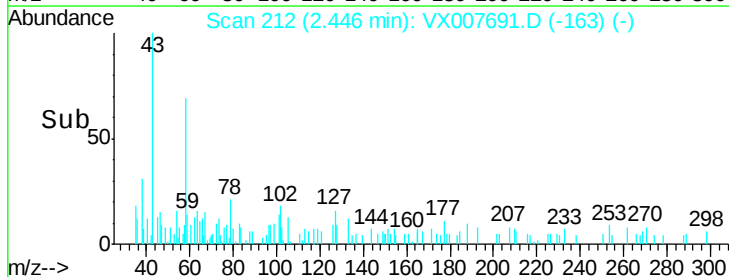
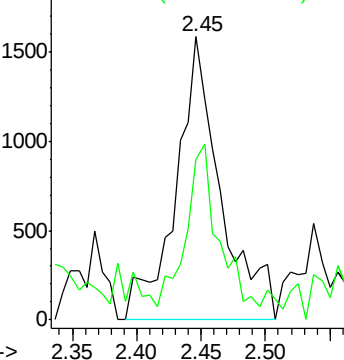
43 100

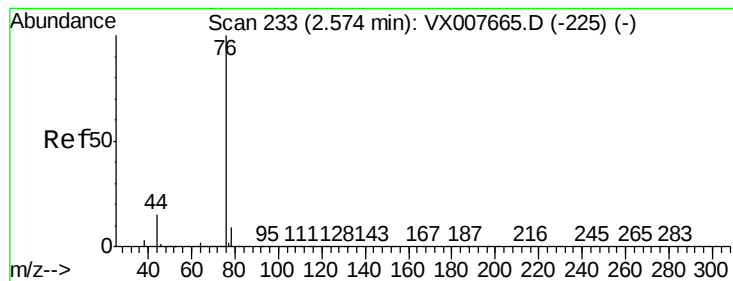
58 50.3 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.324 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007691.D

Acq: 26 Feb 2019 03:21

Instrument :

MSVOA_X

ClientSampleId :

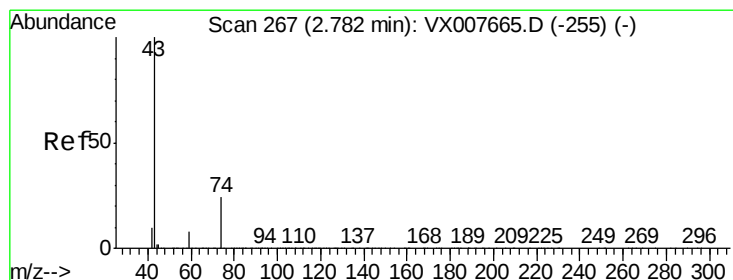
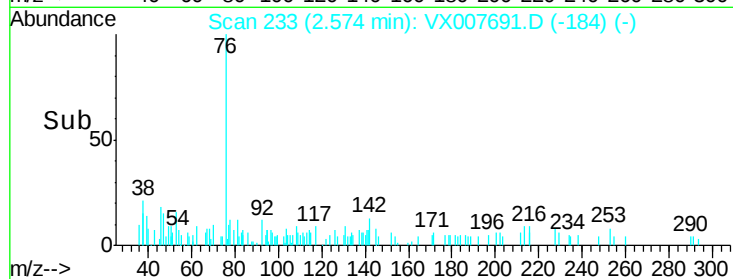
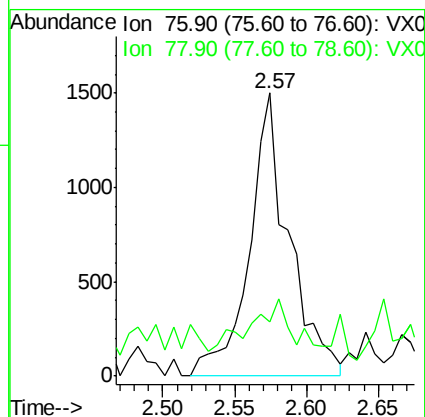
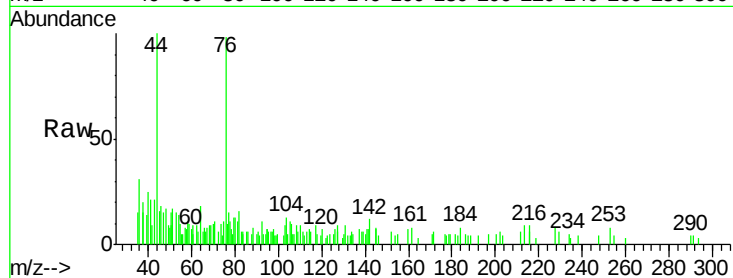
TB

Tot Ion: 76 Resp: 2856

Ion Ratio Lower Upper

76 100

78 1.0 7.1 10.7#



#18

Methyl Acetate

Concen: 0.257 ug/l

RT: 2.79 min Scan# 269

Delta R.T. 0.01 min

Lab File: VX007691.D

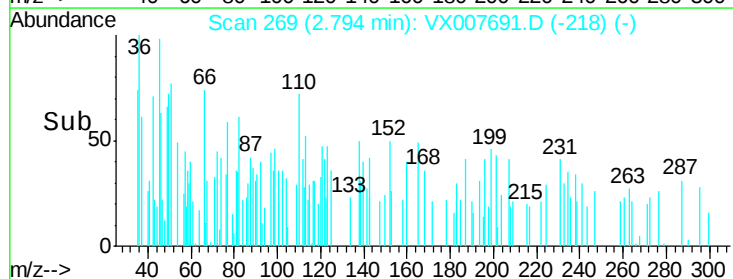
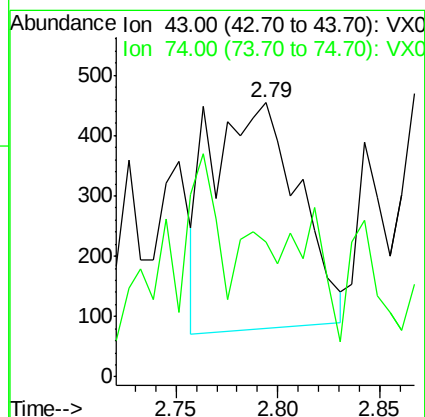
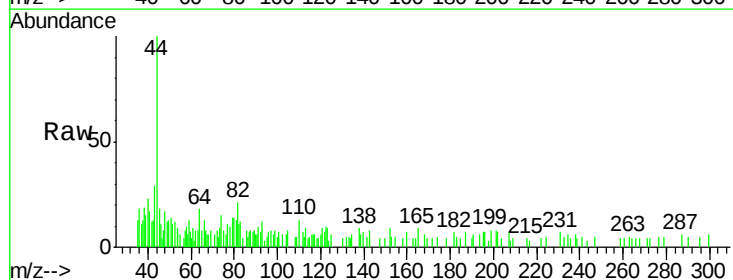
Acq: 26 Feb 2019 03:21

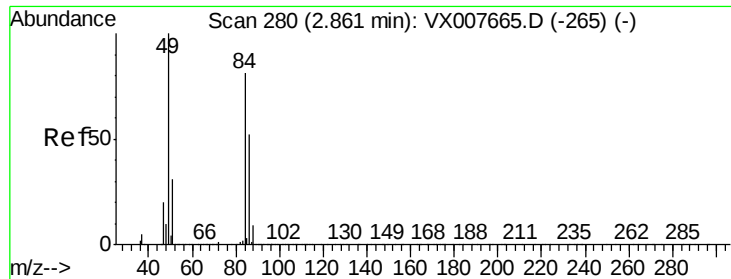
Tgt Ion: 43 Resp: 1118

Ion Ratio Lower Upper

43 100

74 12.1 19.4 29.2#

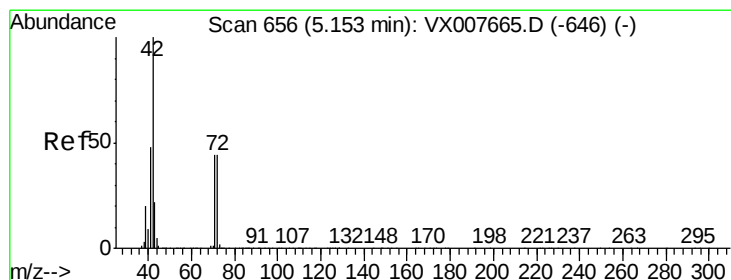
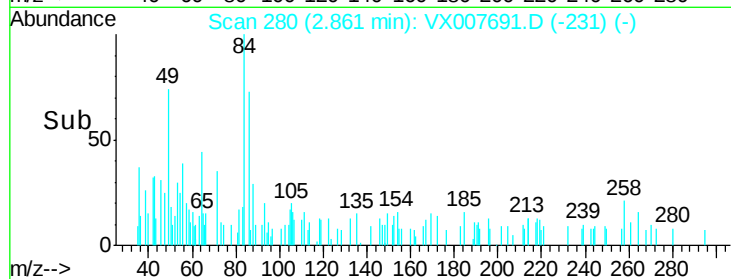
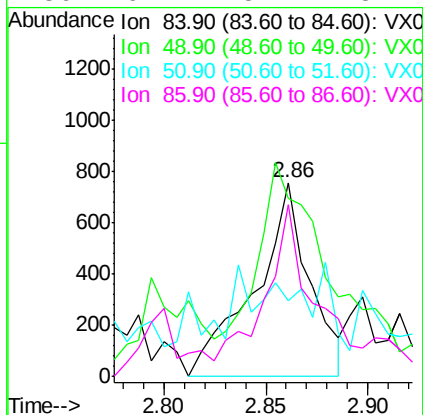
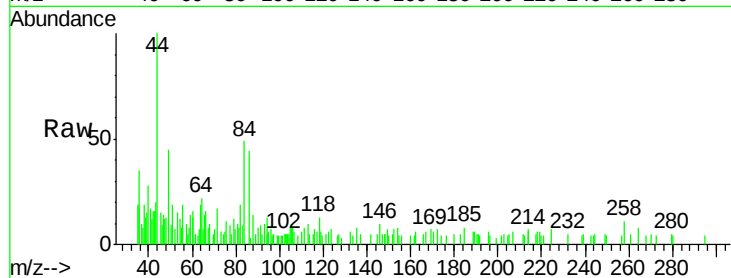




#20
Methvlene Chloride
Concen: 0.383 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007691.D
Acq: 26 Feb 2019 03:21

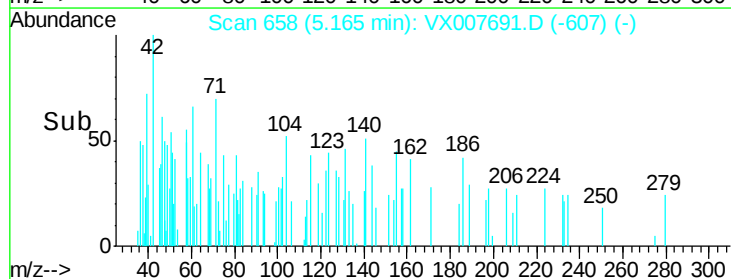
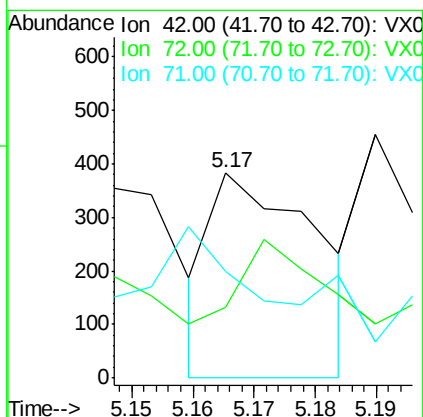
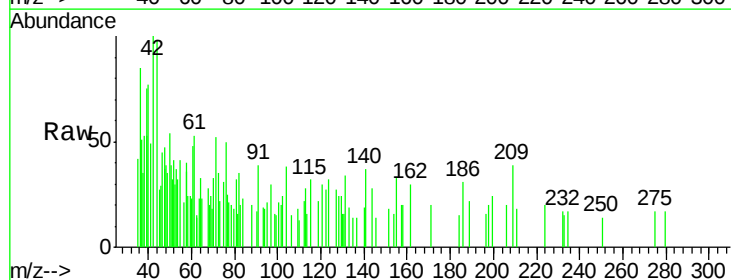
Instrument :
MSVOA_X
ClientSampled :
TB

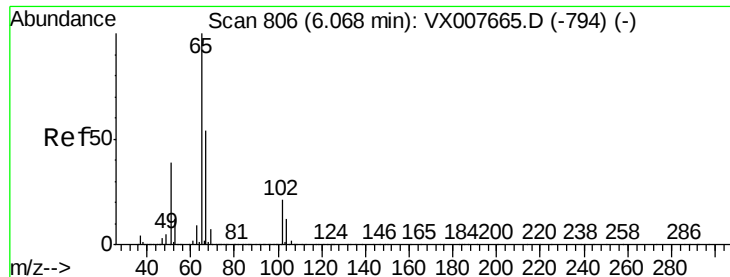
Tot Ion:	84	Resp:	1408
Ion	Ratio	Lower	Upper
84	100		
49	52.5	94.8	142.2#
51	16.9	29.8	44.8#
86	62.4	54.1	81.1



#29
Tetrahydrofuran
Concen: 0.227 ug/l
RT: 5.17 min Scan# 658
Delta R.T. 0.01 min
Lab File: VX007691.D
Acq: 26 Feb 2019 03:21

Tgt Ion:	42	Resp:	455
Ion	Ratio	Lower	Upper
42	100		
72	57.1	37.6	56.4#
71	82.2	34.6	51.8#





#33

1,2-Dichloroethane-d4

Concen: 47.531 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007691.D

Acq: 26 Feb 2019 03:21

Instrument :

MSVOA_X

ClientSampleId :

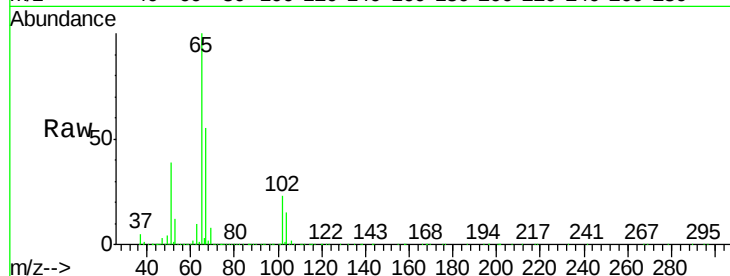
TB

Tot Ion: 65 Resp: 213006

Ion Ratio Lower Upper

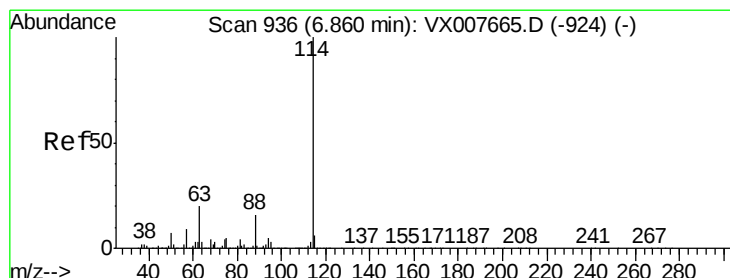
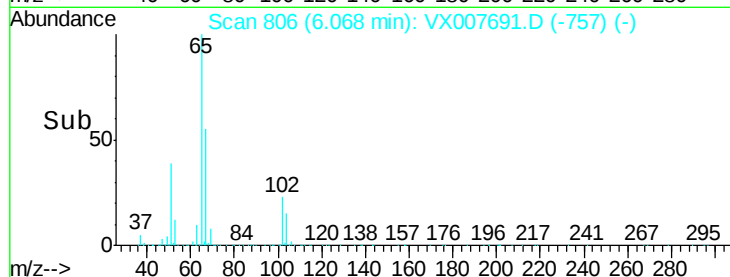
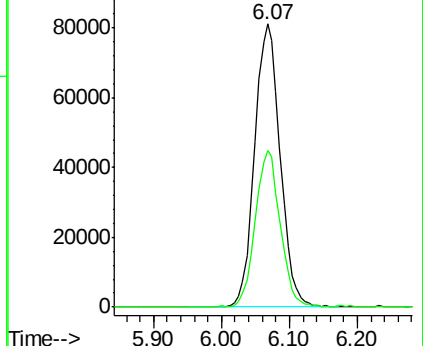
65 100

67 54.0 0.0 108.8



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: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007691.D

Acq: 26 Feb 2019 03:21

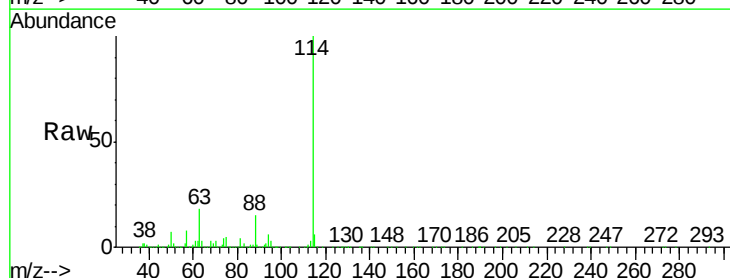
Tgt Ion: 114 Resp: 604722

Ion Ratio Lower Upper

114 100

63 18.4 0.0 35.6

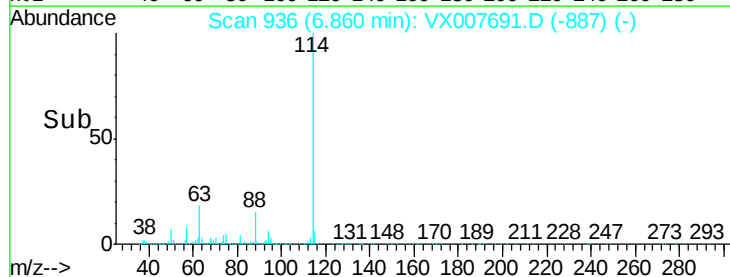
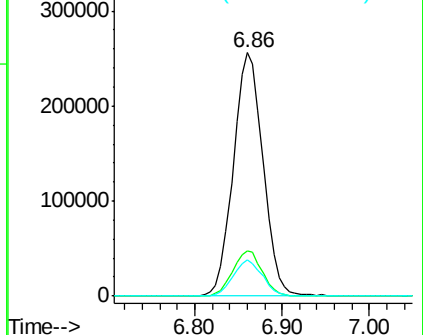
88 14.7 0.0 29.6

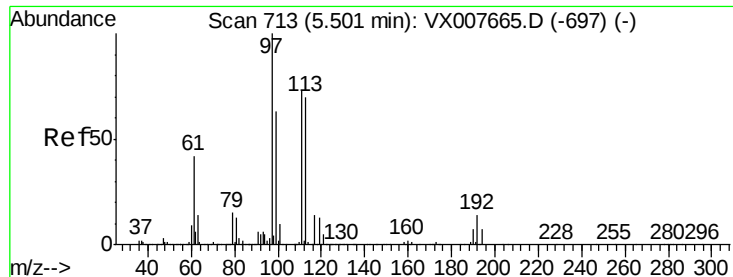


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.049 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX007691.D

Acq: 26 Feb 2019 03:21

Instrument :

MSVOA_X

ClientSampleId :

TB

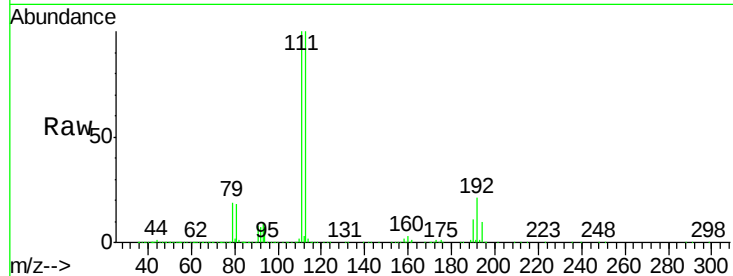
Tot Ion:113 Resp: 198276

Ion Ratio Lower Upper

113 100

111 102.0 81.8 122.8

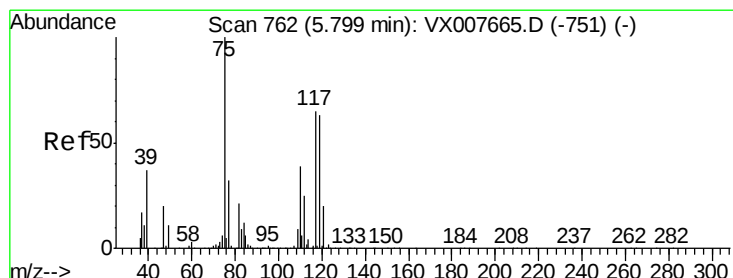
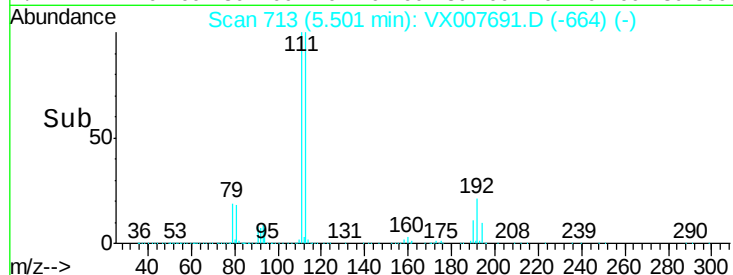
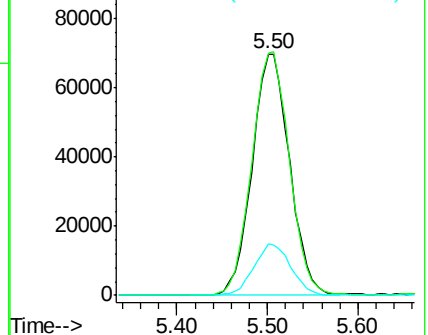
192 21.3 18.5 27.7



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: 4.489 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007691.D

Acq: 26 Feb 2019 03:21

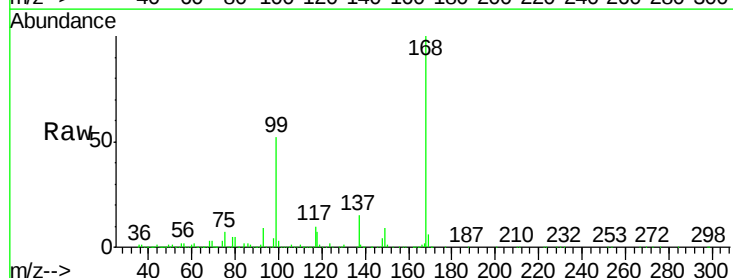
Tgt Ion: 75 Resp: 24403

Ion Ratio Lower Upper

75 100

110 0.0 20.0 59.9#

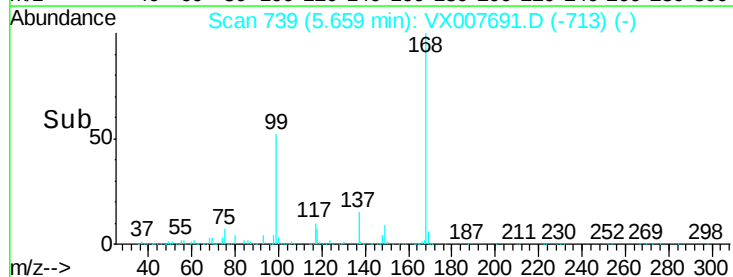
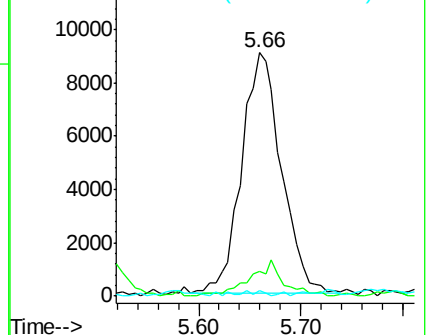
77 1.0 24.7 37.1#

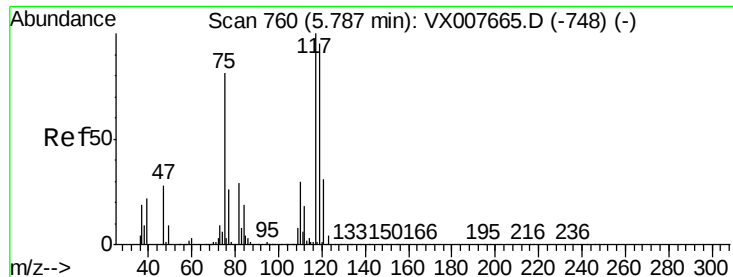


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.366 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX007691.D

Acq: 26 Feb 2019 03:21

Instrument :

MSVOA_X

ClientSampled :

TB

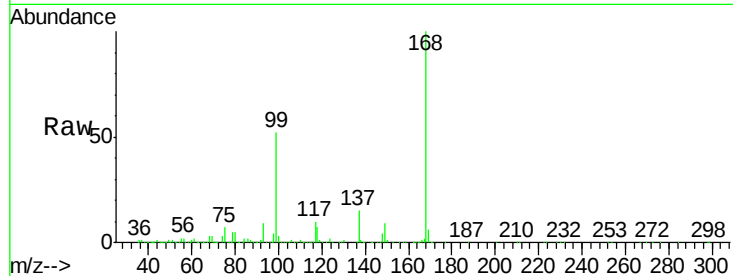
Tot Ion:117 Resp: 34767

Ion Ratio Lower Upper

117 100

119 6.4 75.3 112.9#

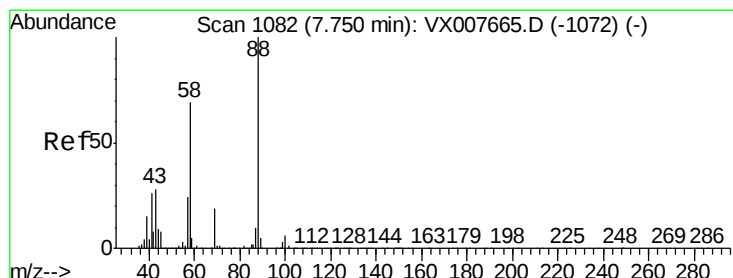
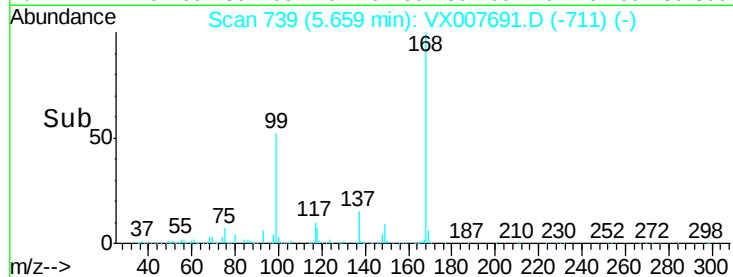
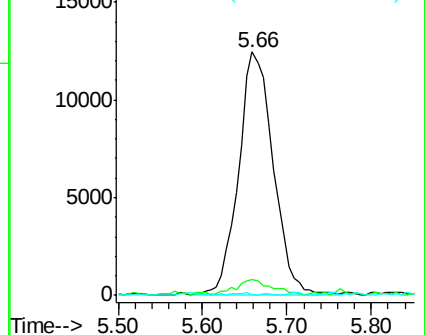
121 0.0 25.0 37.4#



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: 2.281 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX007691.D

Acq: 26 Feb 2019 03:21

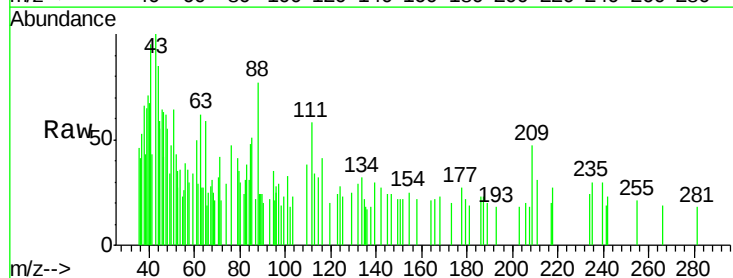
Tgt Ion: 88 Resp: 240

Ion Ratio Lower Upper

88 100

43 149.2 24.2 36.4#

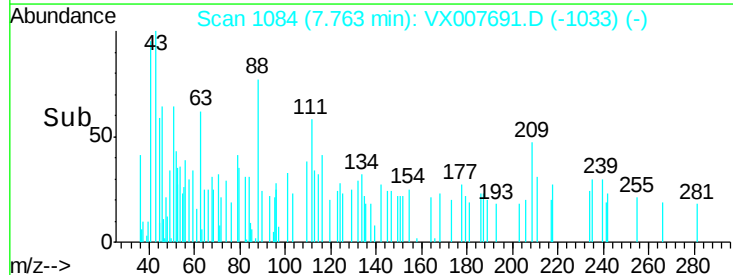
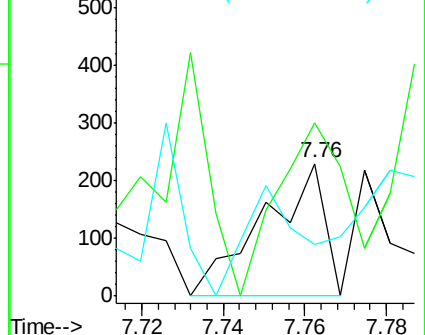
58 75.4 53.0 79.4

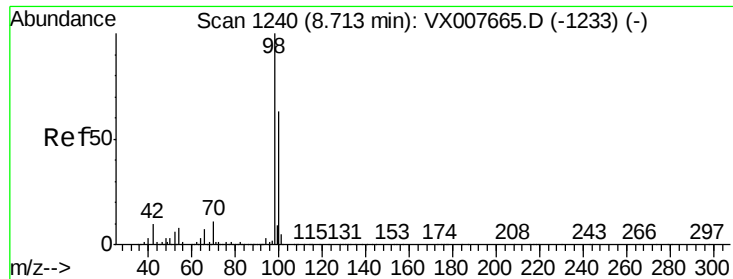


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

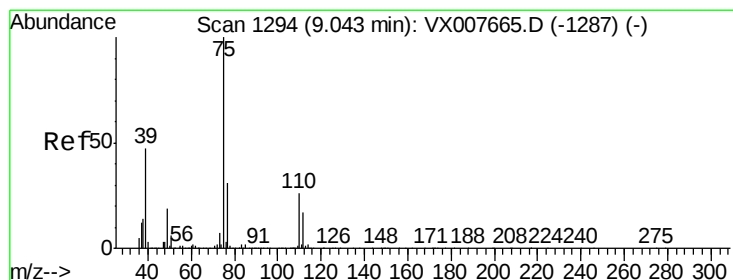
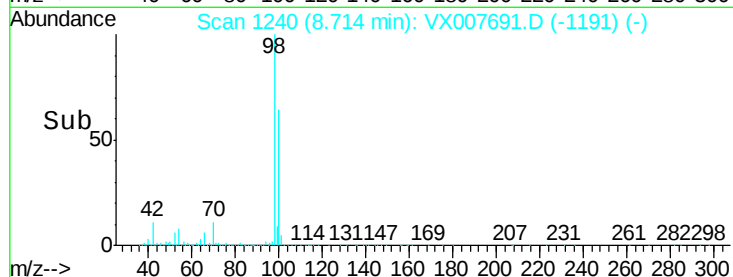
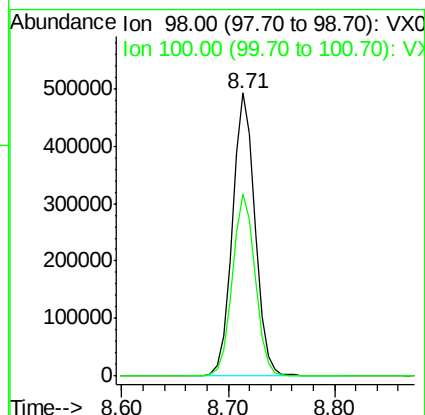
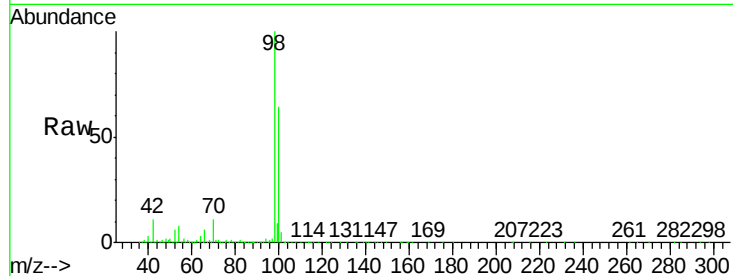




#50
Toluene-d8
Concen: 47.298 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX007691.D
Acq: 26 Feb 2019 03:21

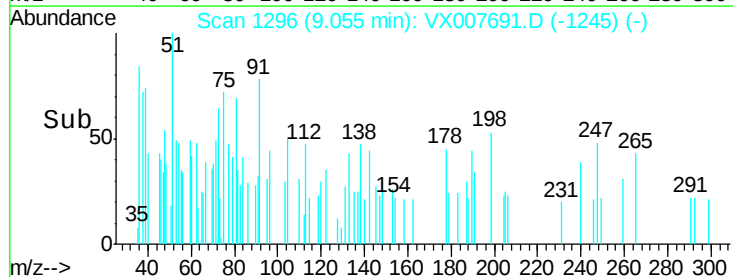
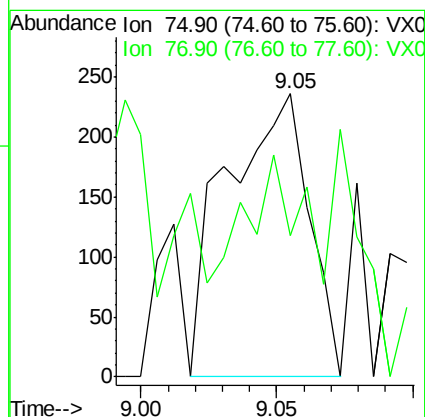
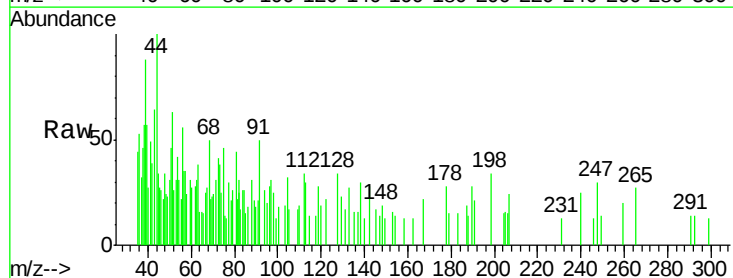
Instrument :
MSVOA_X
ClientSampled :
TB

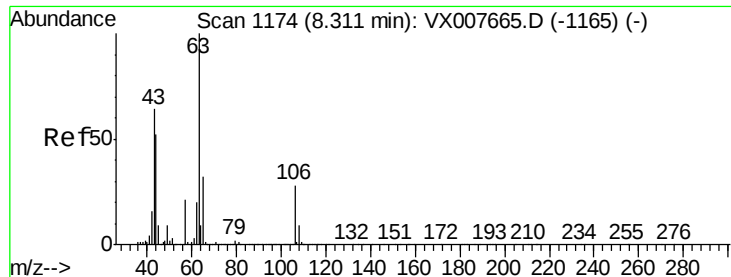
Tot Ion: 98 Resp: 731973
Ion Ratio Lower Upper
98 100
100 64.8 51.6 77.4



#53
t-1,3-Dichloropropene
Concen: 2.875 ug/l
RT: 9.05 min Scan# 1296
Delta R.T. 0.01 min
Lab File: VX007691.D
Acq: 26 Feb 2019 03:21

Tgt Ion: 75 Resp: 498
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#

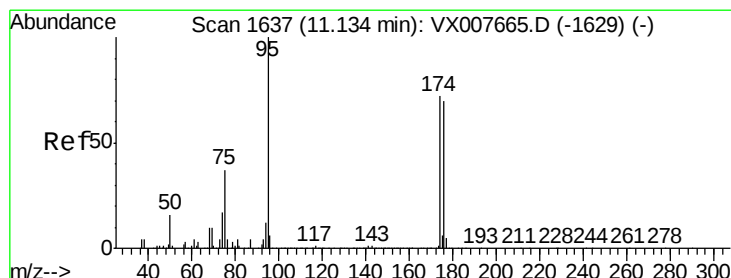
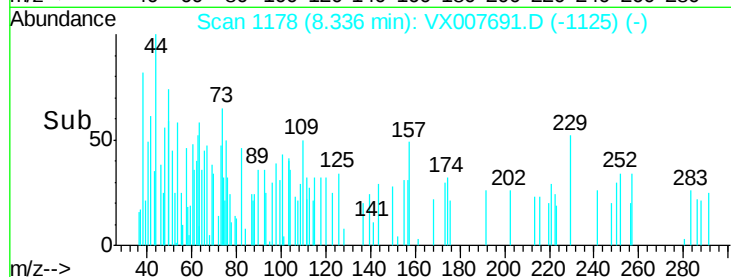
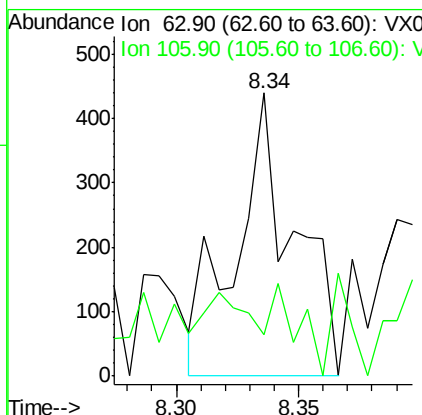
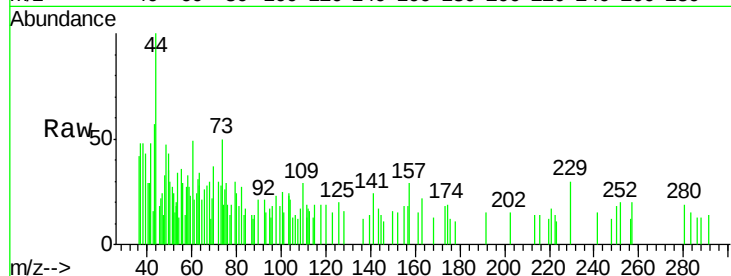




#58
 2-Chloroethyl Vinyl ether
 Concen: 0.212 ug/l
 RT: 8.34 min Scan# 1178
 Delta R.T. 0.02 min
 Lab File: VX007691.D
 Acq: 26 Feb 2019 03:21

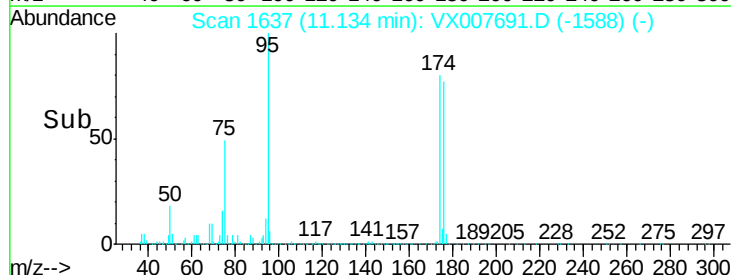
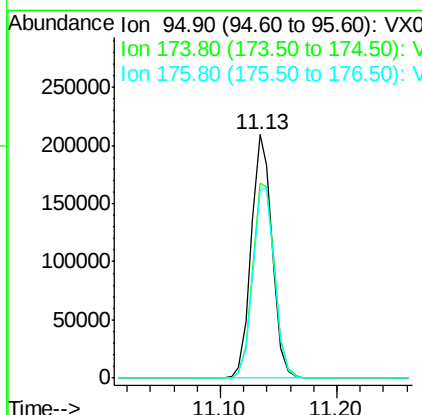
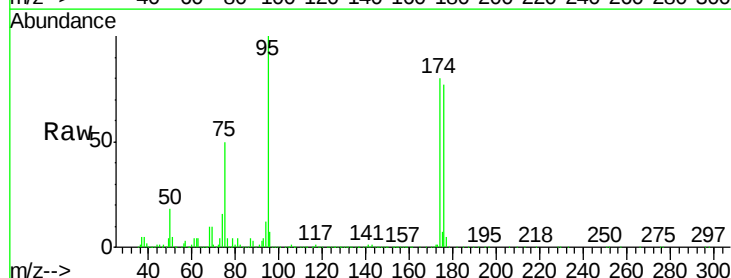
Instrument :
 MSVOA_X
 ClientSampled :
 TB

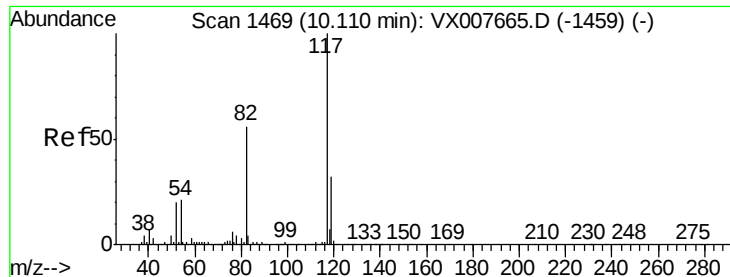
Tot Ion: 63 Resp: 733
 Ion Ratio Lower Upper
 63 100
 106 24.8 23.6 35.4



#62
 4-Bromofluorobenzene
 Concen: 45.914 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VX007691.D
 Acq: 26 Feb 2019 03:21

Tgt Ion: 95 Resp: 260797
 Ion Ratio Lower Upper
 95 100
 174 84.7 0.0 189.2
 176 81.6 0.0 186.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX007691.D

Acq: 26 Feb 2019 03:21

Instrument :

MSVOA_X

ClientSampled :

TB

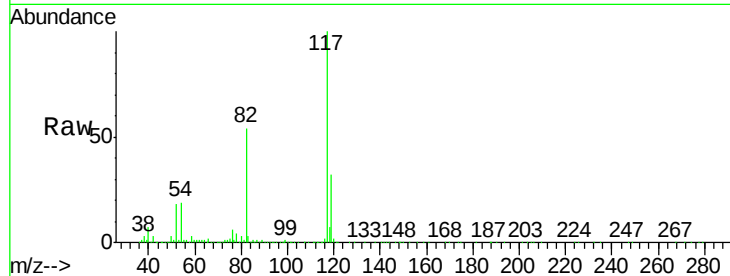
Tot Ion:117 Resp: 569796

Ion Ratio Lower Upper

117 100

82 54.0 42.1 63.1

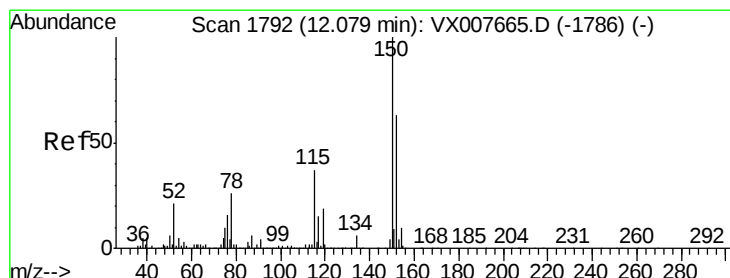
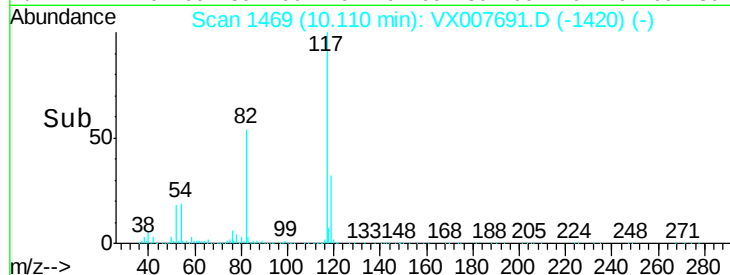
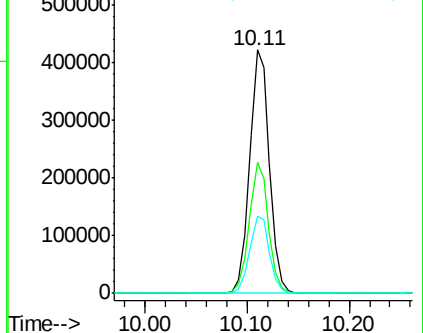
119 31.7 26.5 39.7



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007691.D

Acq: 26 Feb 2019 03:21

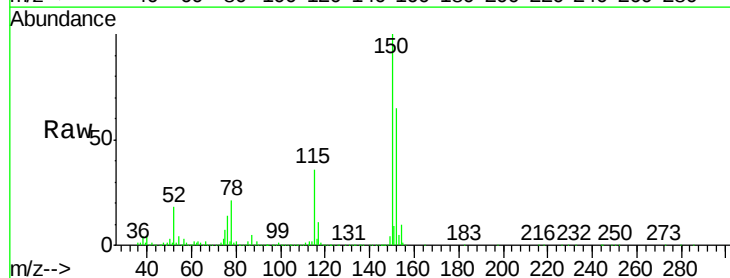
Tgt Ion:152 Resp: 261350

Ion Ratio Lower Upper

152 100

115 57.1 38.0 114.0

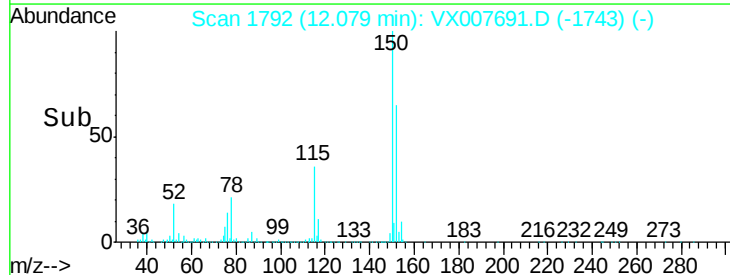
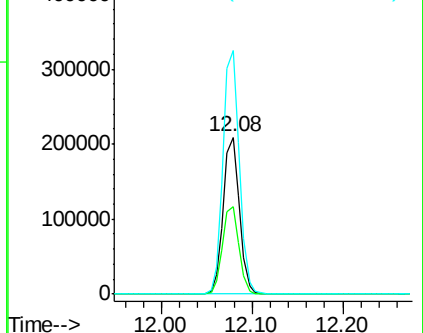
150 155.8 0.0 346.4

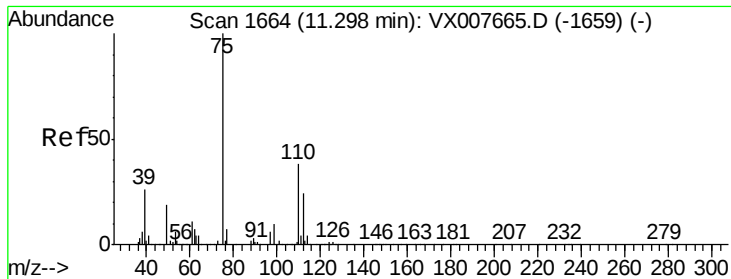


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.342 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007691.D

Acq: 26 Feb 2019 03:21

Instrument :

MSVOA_X

ClientSampled :

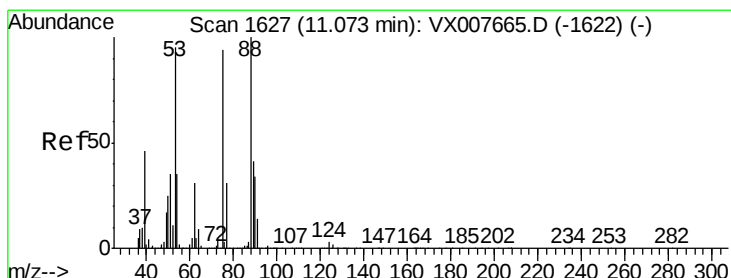
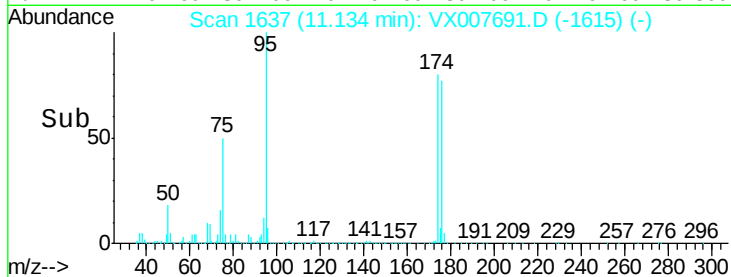
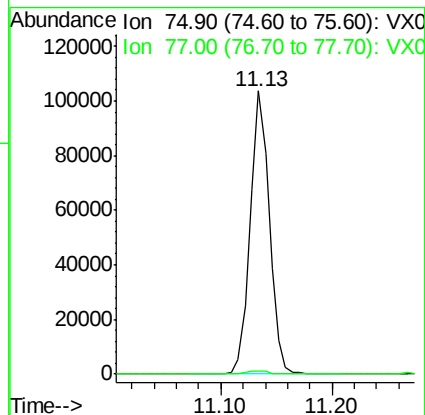
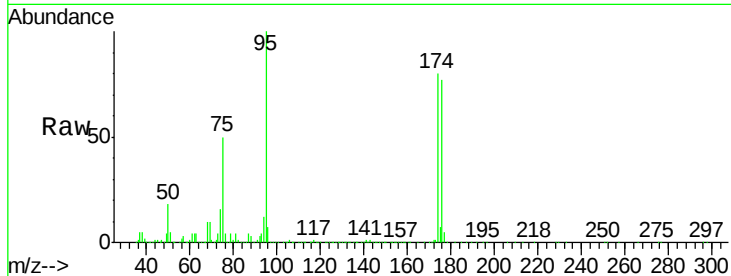
TB

Tot Ion: 75 Resp: 124461

Ion Ratio Lower Upper

75 100

77 1.5 23.0 69.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.275 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007691.D

Acq: 26 Feb 2019 03:21

Tgt Ion: 75 Resp: 124461

Ion Ratio Lower Upper

75 100

53 0.3 81.0 121.6#

89 0.2 41.4 62.0#

