

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020819\
 Data File : VX007449.D
 Acq On : 08 Feb 2019 18:22
 Operator : JC/SP
 Sample : K1445-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

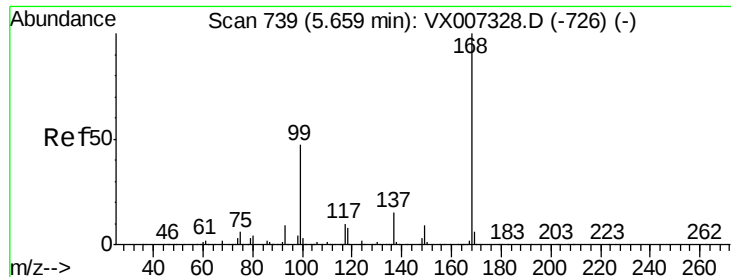
Quant Time: Feb 08 23:06:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	482688	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	762588	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	715092	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	346130	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	269965	52.69	ug/l	0.00
Spiked Amount			Recovery	=	105.38%	
35) Dibromofluoromethane	5.51	113	245515	49.48	ug/l	0.00
Spiked Amount			Recovery	=	98.96%	
50) Toluene-d8	8.71	98	910967	49.48	ug/l	0.00
Spiked Amount			Recovery	=	98.96%	
62) 4-Bromofluorobenzene	11.13	95	326277	48.54	ug/l	0.00
Spiked Amount			Recovery	=	97.08%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	198	0.211	ug/l #	48
5) Bromomethane	1.65	94	371	Below Cal		93
6) Chloroethane	1.60	64	2270	0.658	ug/l #	63
11) Tert butyl alcohol	3.10	59	414	0.390	ug/l #	1
13) Acrolein	2.29	56	427	0.859	ug/l #	59
15) Acrylonitrile	3.14	53	570	0.217	ug/l #	17
16) Acetone	2.45	43	3573	1.522	ug/l	93
17) Carbon Disulfide	2.57	76	1408	2.233	ug/l #	58
18) Methyl Acetate	2.78	43	1515	0.838	ug/l #	80
20) Methylene Chloride	2.85	84	1611	Below Cal	#	80
29) Tetrahydrofuran	5.17	42	668	0.318	ug/l #	73
36) 1,1-Dichloropropene	5.67	75	31139	4.551	ug/l #	49
38) Carbon Tetrachloride	5.67	117	44352	6.681	ug/l #	18
49) 1,4-Dioxane	7.76	88	126	7.909	ug/l #	1
71) Bromoform	11.03	173	137	4.057	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	156403	23.231	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	156403	69.959	ug/l #	9

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007449.D

Acq: 08 Feb 2019 18:22

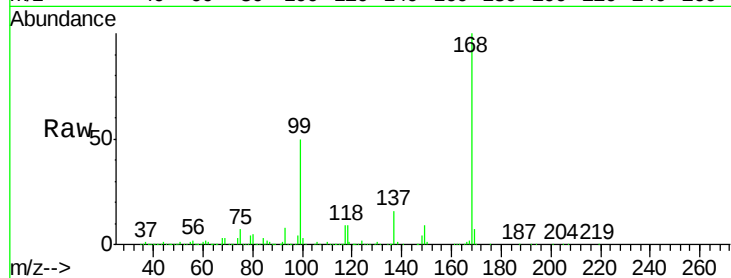
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 482688

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

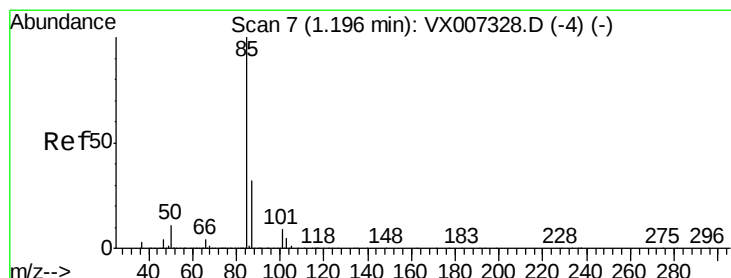
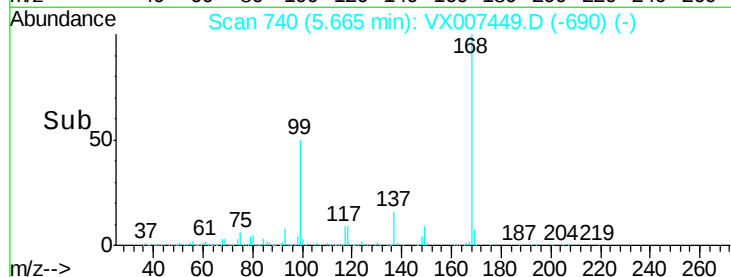
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.211 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX007449.D

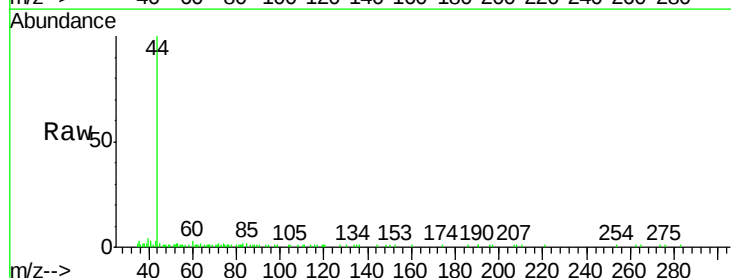
Acq: 08 Feb 2019 18:22

Tgt Ion: 85 Resp: 198

Ion Ratio Lower Upper

85 100

87 60.6 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

200

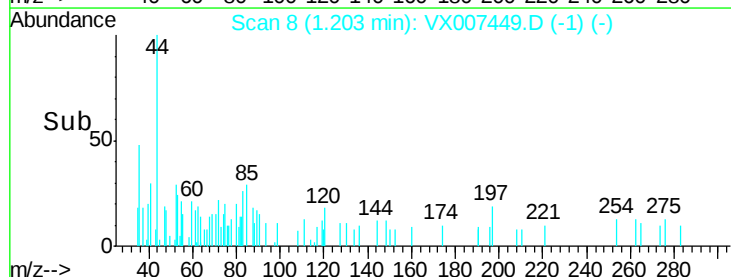
150

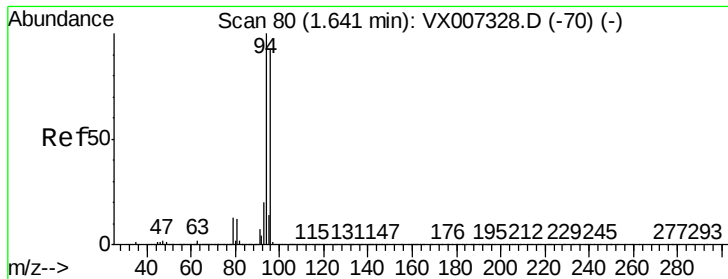
100

50

0

Time--> 1.18 1.20 1.22 1.24





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX007449.D

Acq: 08 Feb 2019 18:22

Instrument :

MSVOA_X

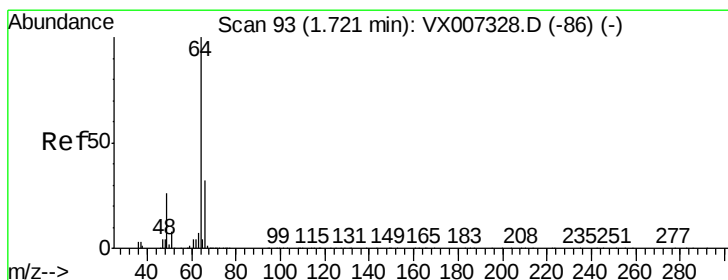
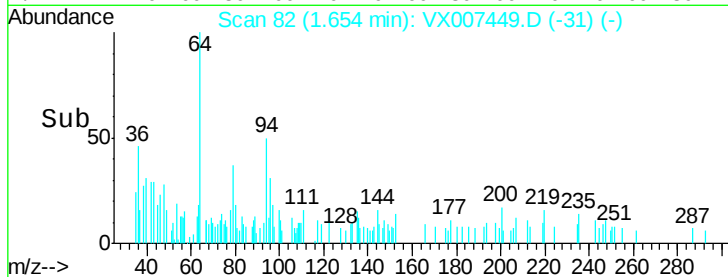
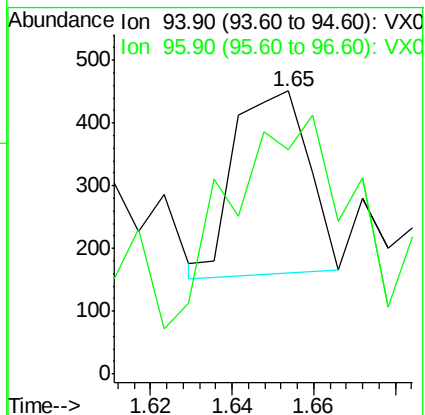
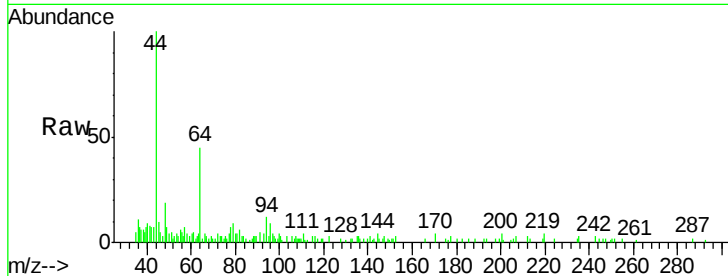
ClientSampled :

Tot Ion: 94 Resp: 371

Ion Ratio Lower Upper

94 100

96 85.7 73.9 110.9



#6

Chloroethane

Concen: 0.658 ug/l

RT: 1.60 min Scan# 73

Delta R.T. -0.12 min

Lab File: VX007449.D

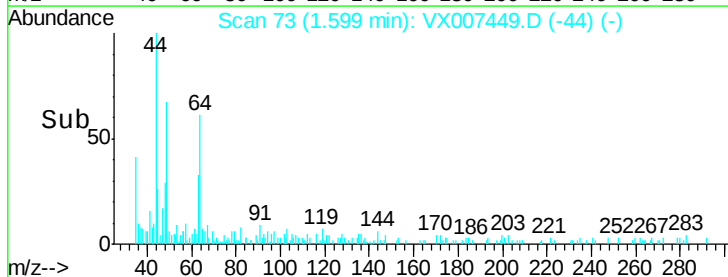
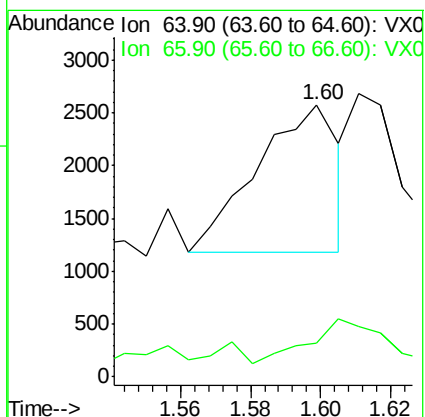
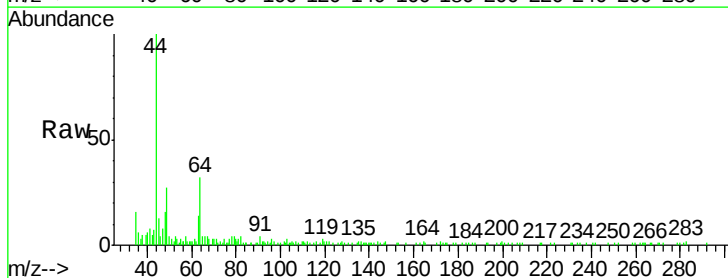
Acq: 08 Feb 2019 18:22

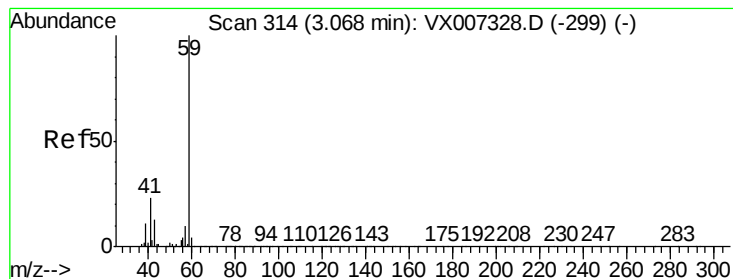
Tgt Ion: 64 Resp: 2270

Ion Ratio Lower Upper

64 100

66 11.2 25.5 38.3#



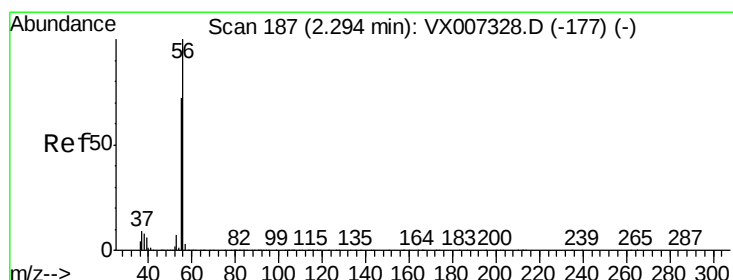
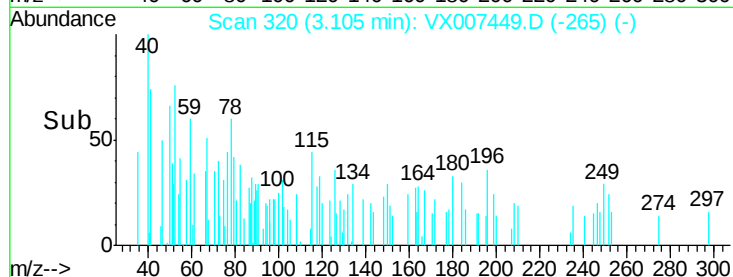
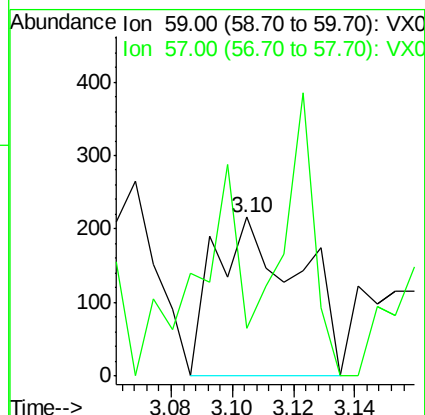
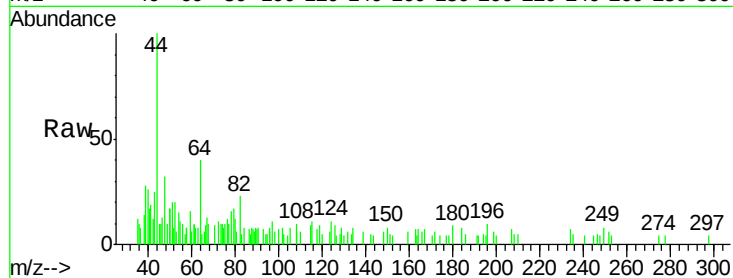


#11

Tert butyl alcohol
Concen: 0.390 ug/l
RT: 3.10 min Scan# 320
Delta R.T. 0.04 min
Lab File: VX007449.D
Acq: 08 Feb 2019 18:22

Instrument :
MSVOA_X
ClientSampled :

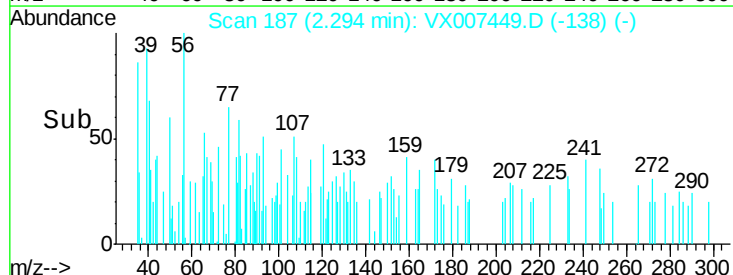
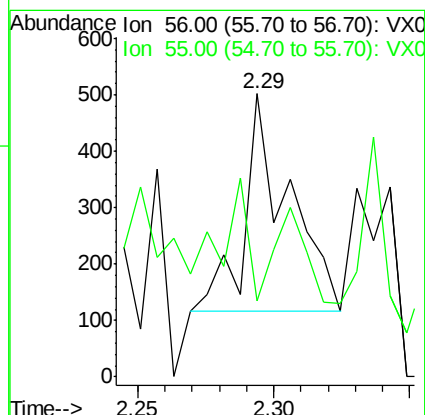
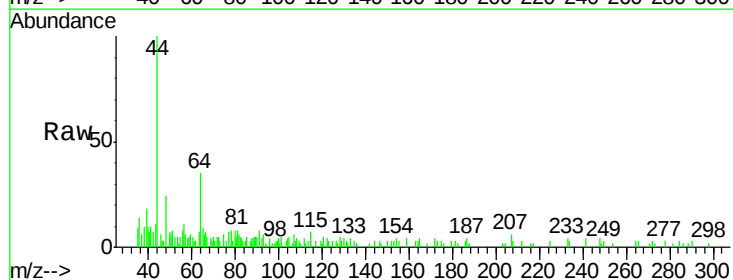
Tot Ion: 59 Resp: 414
Ion Ratio Lower Upper
59 100
57 69.3 8.1 12.1#

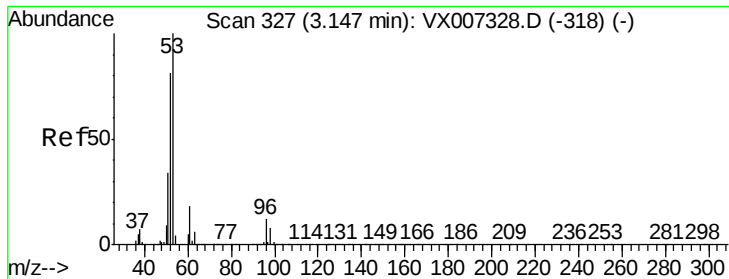


#13

Acrolein
Concen: 0.859 ug/l
RT: 2.29 min Scan# 187
Delta R.T. 0.00 min
Lab File: VX007449.D
Acq: 08 Feb 2019 18:22

Tgt Ion: 56 Resp: 427
Ion Ratio Lower Upper
56 100
55 37.0 56.9 85.3#





#15

Acrylonitrile

Concen: 0.217 ug/l

RT: 3.14 min Scan# 326

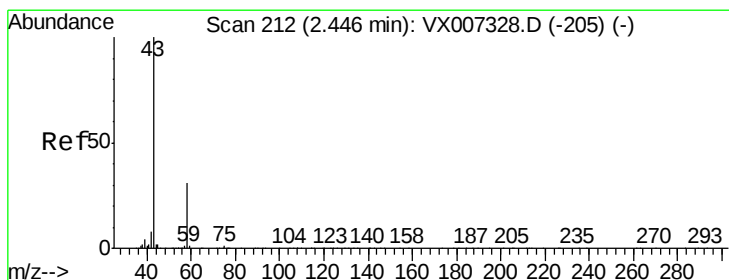
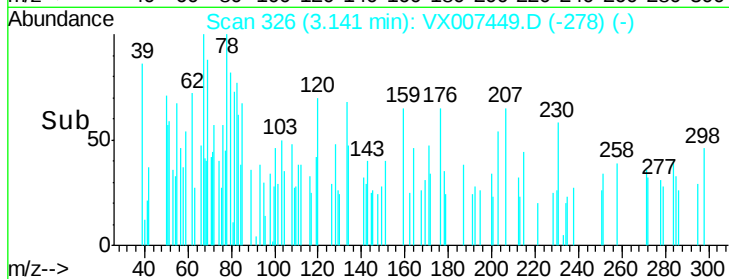
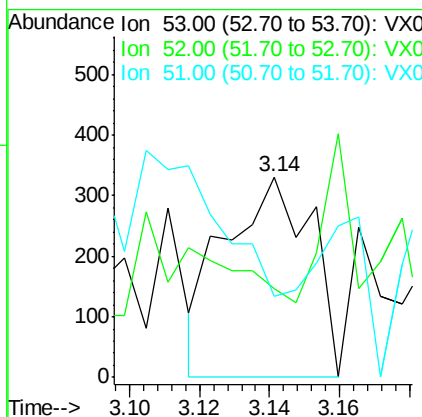
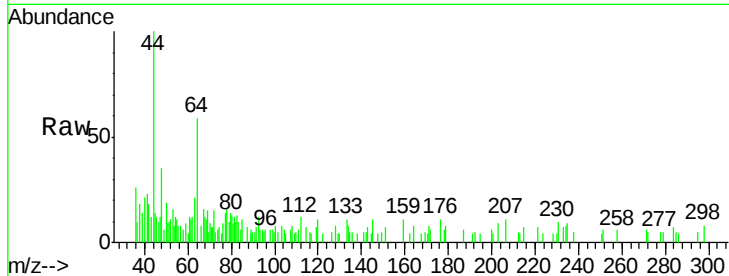
Delta R.T. -0.01 min

Lab File: VX007449.D

Acq: 08 Feb 2019 18:22

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	53	Resp:	570
Ion	Ratio	Lower	Upper
53	100		
52	0.0	66.4	99.6#
51	0.0	28.4	42.6#



#16

Acetone

Concen: 1.522 ug/l

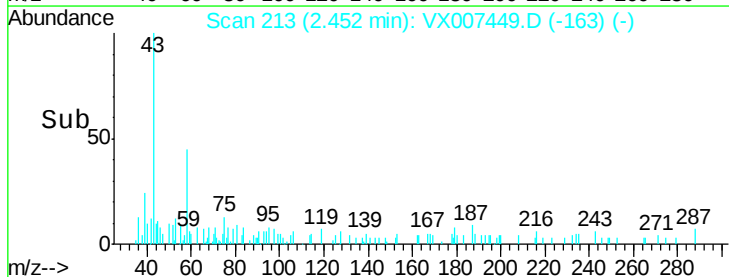
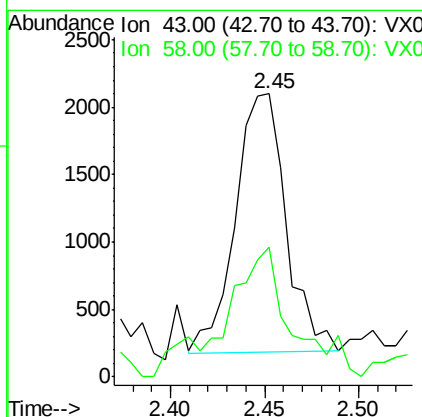
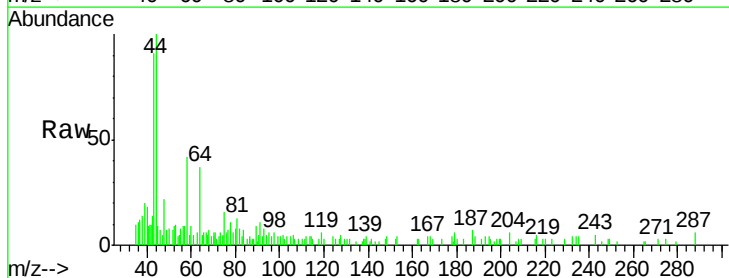
RT: 2.45 min Scan# 213

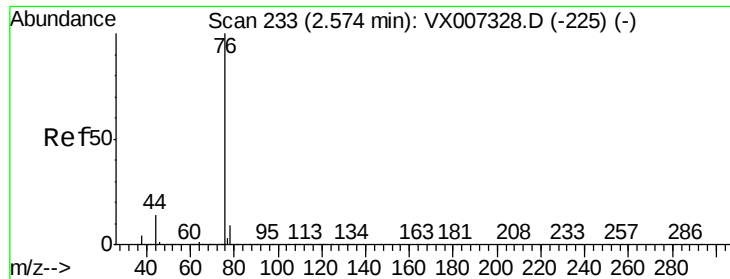
Delta R.T. 0.01 min

Lab File: VX007449.D

Acq: 08 Feb 2019 18:22

Tgt Ion:	43	Resp:	3573
Ion	Ratio	Lower	Upper
43	100		
58	34.7	24.9	37.3





#17

Carbon Disulfide

Concen: 2.233 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007449.D

Acq: 08 Feb 2019 18:22

Instrument :

MSVOA_X

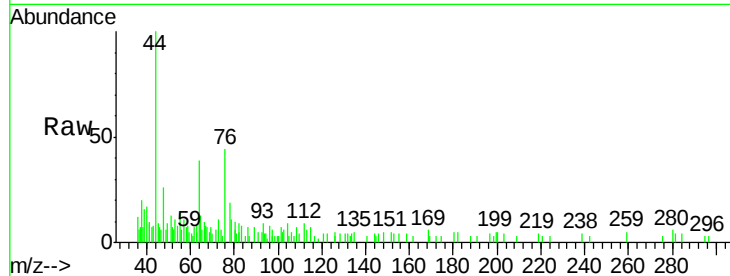
ClientSampled :

Tot Ion: 76 Resp: 1408

Ion Ratio Lower Upper

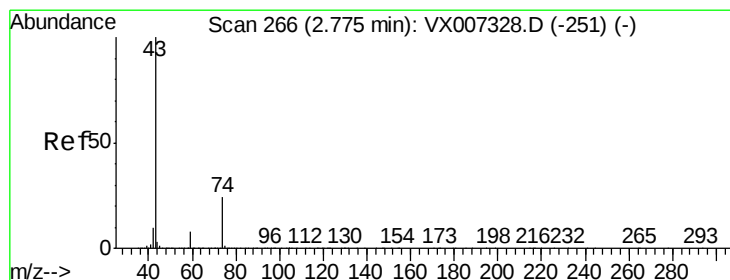
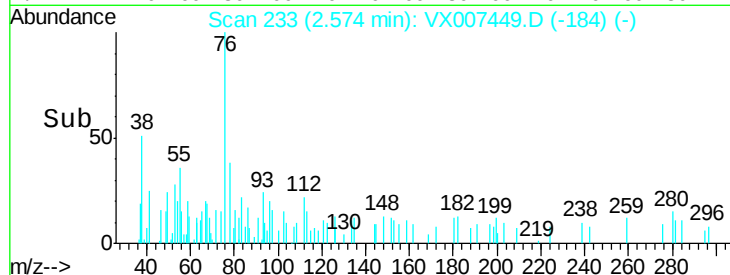
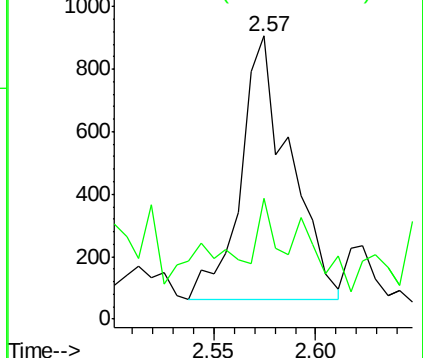
76 100

78 24.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.838 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX007449.D

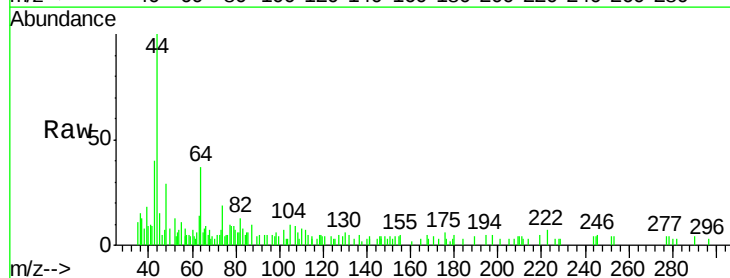
Acq: 08 Feb 2019 18:22

Tgt Ion: 43 Resp: 1515

Ion Ratio Lower Upper

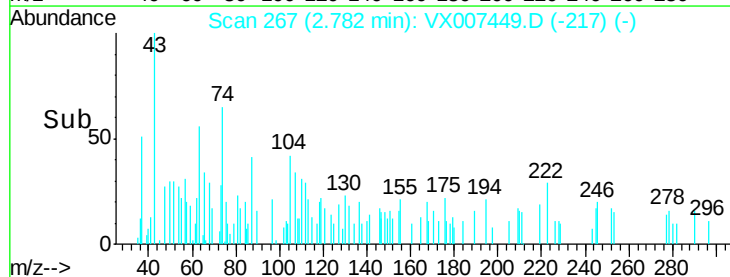
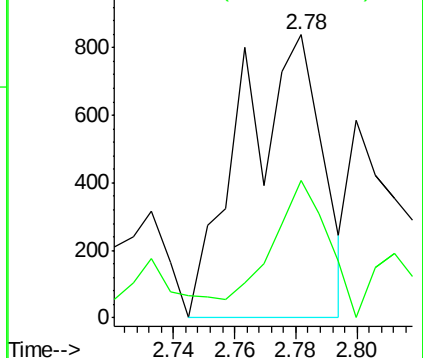
43 100

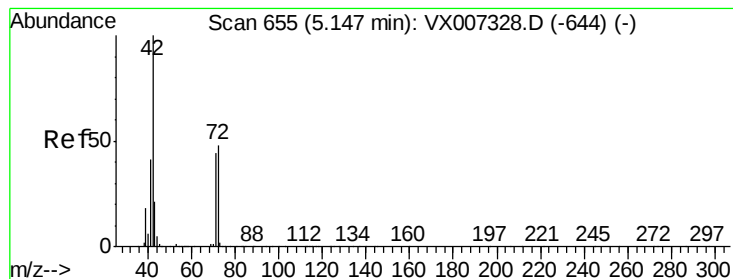
74 34.5 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#29

Tetrahydrofuran

Concen: 0.318 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX007449.D

Acq: 08 Feb 2019 18:22

Instrument :

MSVOA_X

ClientSampled :

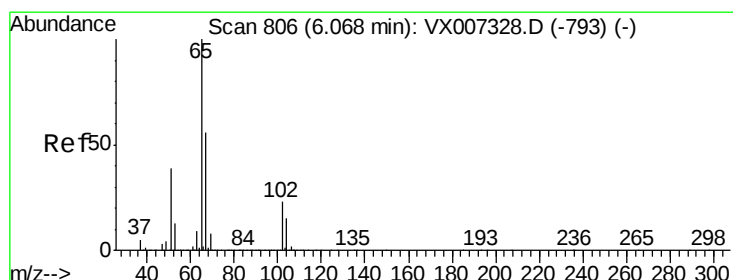
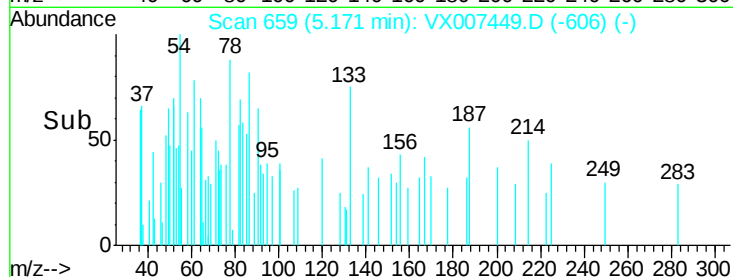
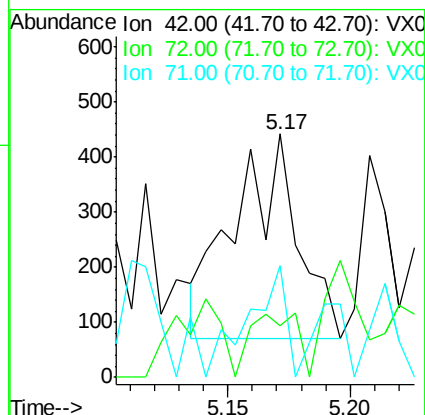
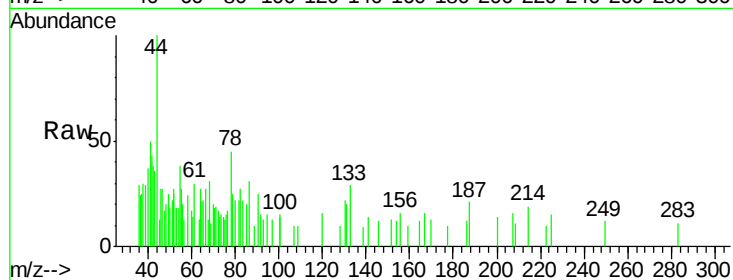
Tot Ion: 42 Resp: 668

Ion Ratio Lower Upper

42 100

72 22.9 37.6 56.4#

71 32.5 34.6 51.8#



#33

1,2-Dichloroethane-d4

Concen: 52.693 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007449.D

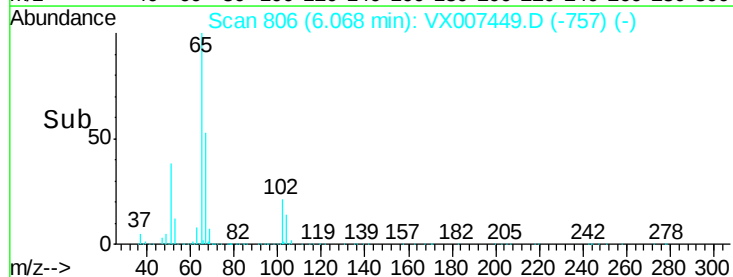
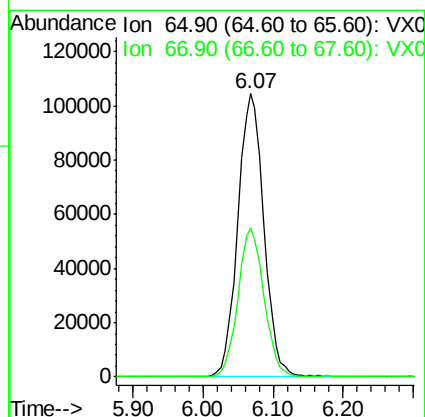
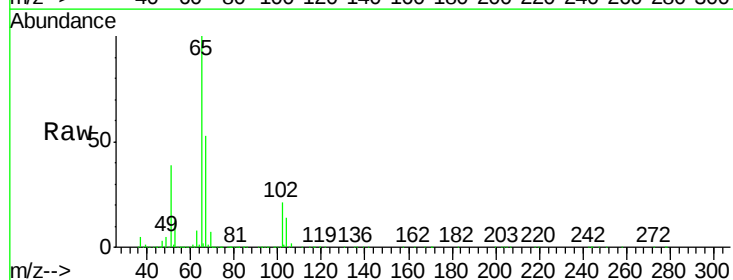
Acq: 08 Feb 2019 18:22

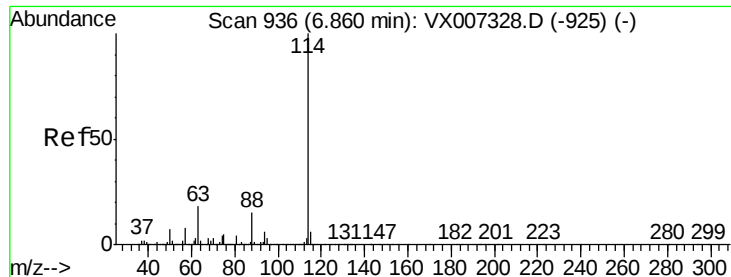
Tgt Ion: 65 Resp: 269965

Ion Ratio Lower Upper

65 100

67 52.6 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: VX007449.D

Acq: 08 Feb 2019 18:22

Instrument :

MSVOA_X

ClientSampleId :

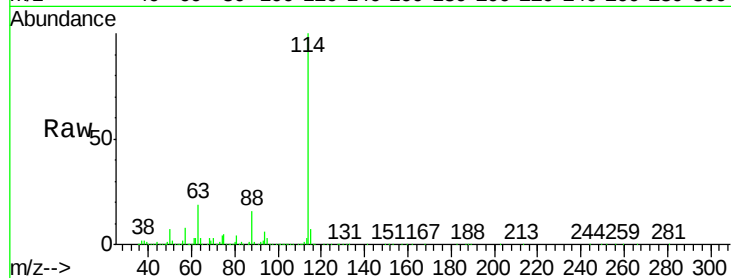
Tot Ion:114 Resp: 762588

Ion Ratio Lower Upper

114 100

63 18.5 0.0 35.6

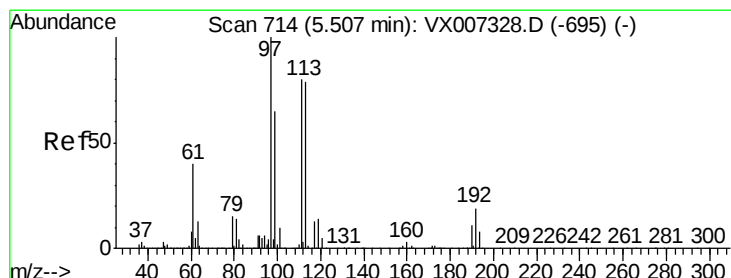
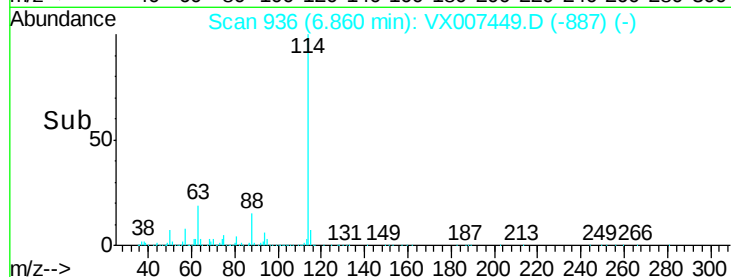
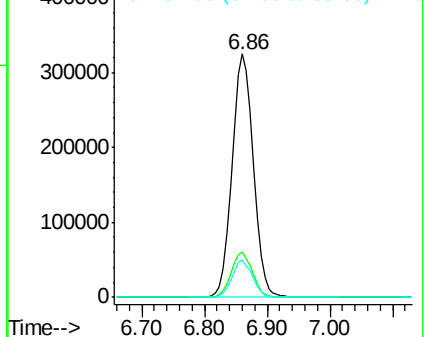
88 15.5 0.0 29.6



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: 49.480 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.00 min

Lab File: VX007449.D

Acq: 08 Feb 2019 18:22

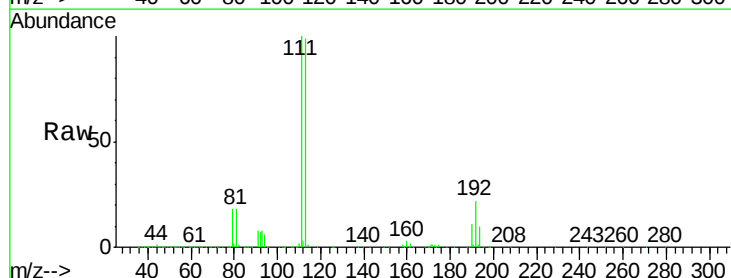
Tgt Ion:113 Resp: 245515

Ion Ratio Lower Upper

113 100

111 102.0 81.8 122.8

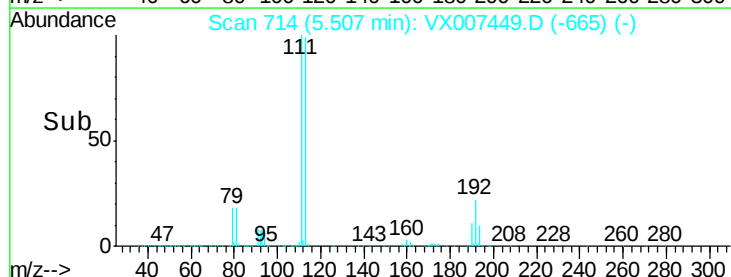
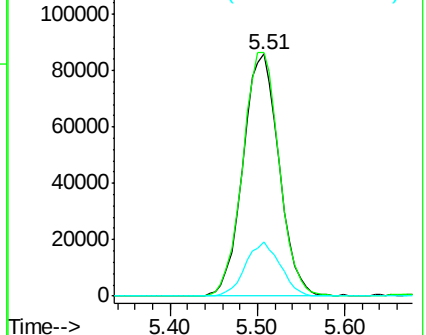
192 21.9 18.5 27.7

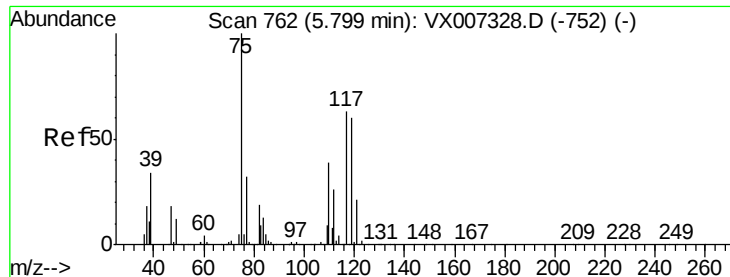


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.551 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007449.D

Acq: 08 Feb 2019 18:22

Instrument :

MSVOA_X

ClientSampleId :

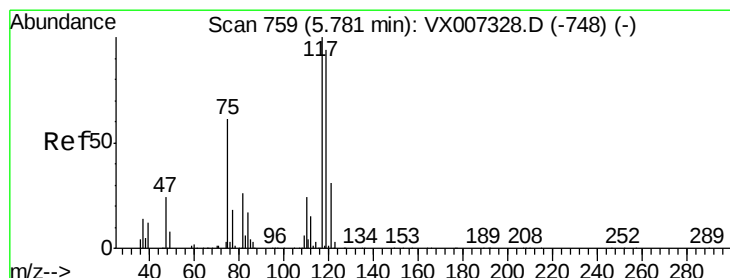
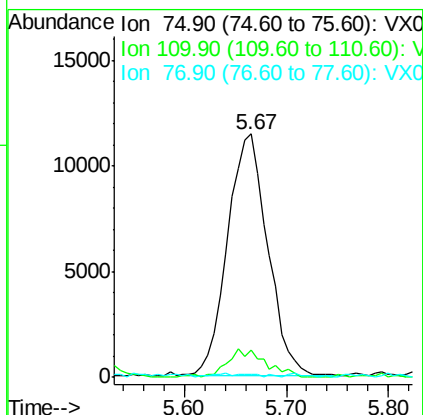
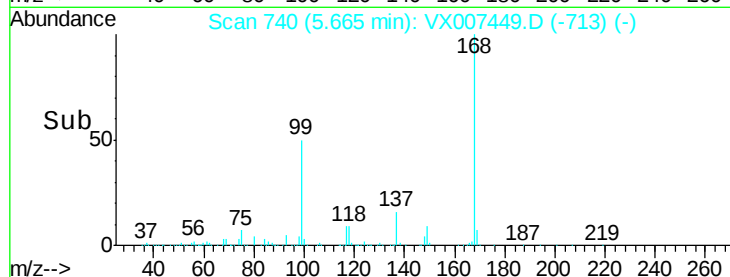
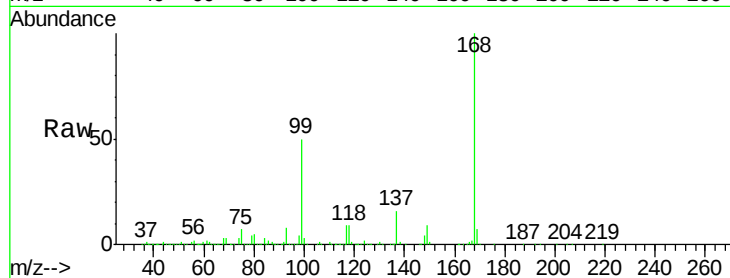
Tot Ion: 75 Resp: 31139

Ion Ratio Lower Upper

75 100

110 11.1 20.0 59.9#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 6.681 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007449.D

Acq: 08 Feb 2019 18:22

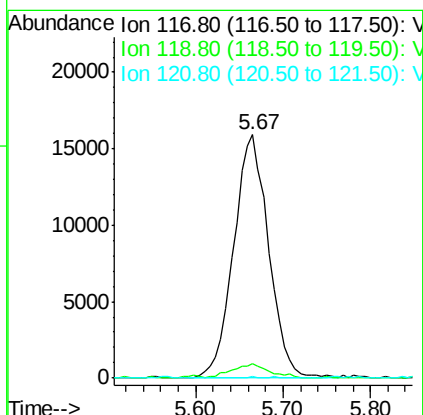
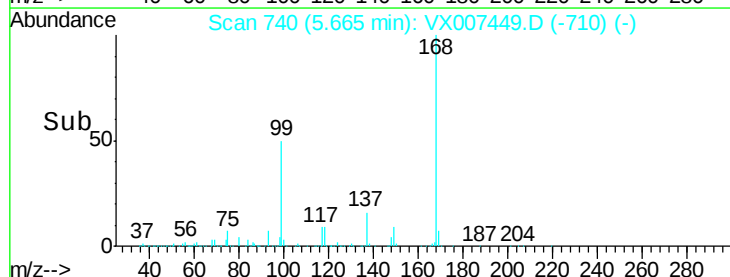
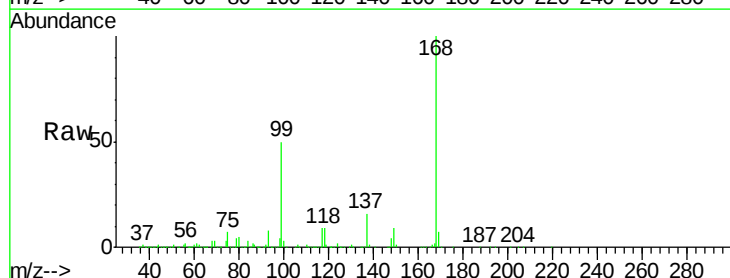
Tgt Ion: 117 Resp: 44352

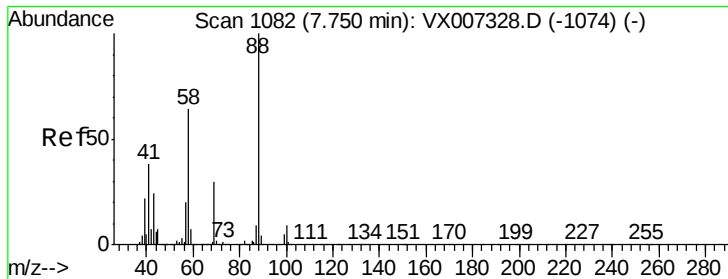
Ion Ratio Lower Upper

117 100

119 5.7 75.3 112.9#

121 0.8 25.0 37.4#





#49

1,4-Dioxane

Concen: 7.909 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX007449.D

Acq: 08 Feb 2019 18:22

Instrument :
MSVOA_X
ClientSampled :

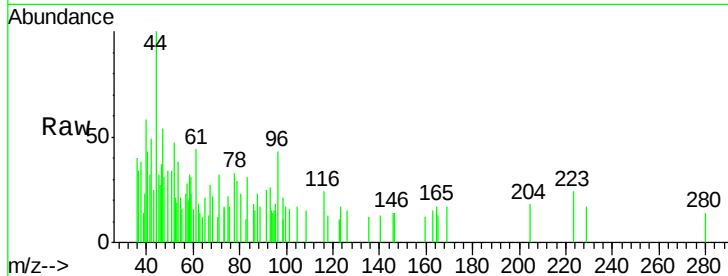
Tot Ion: 88 Resp: 126

Ion Ratio Lower Upper

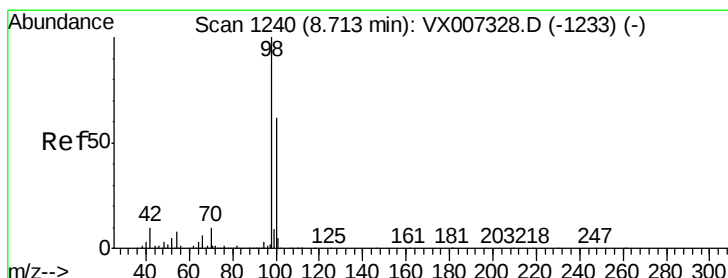
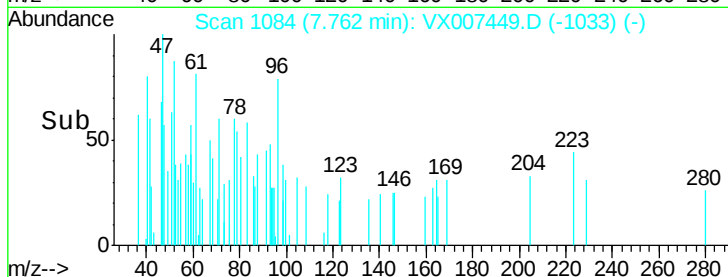
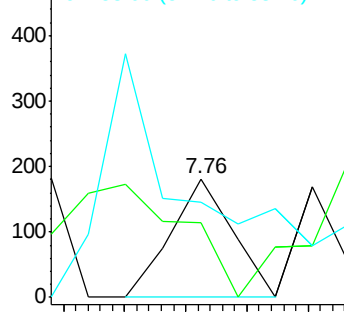
88 100

43 162.7 24.2 36.4#

58 317.5 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: 49.484 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007449.D

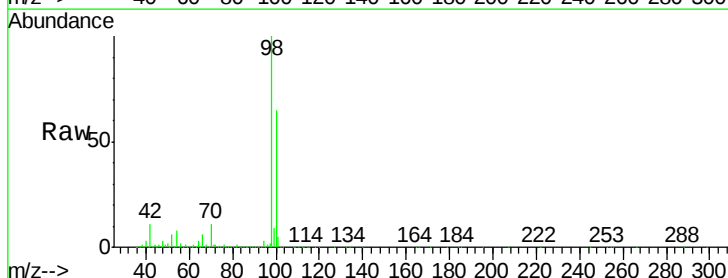
Acq: 08 Feb 2019 18:22

Tgt Ion: 98 Resp: 910967

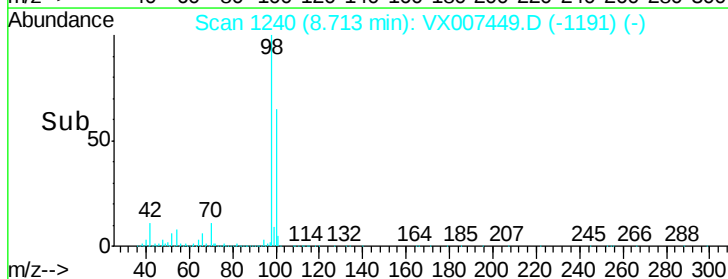
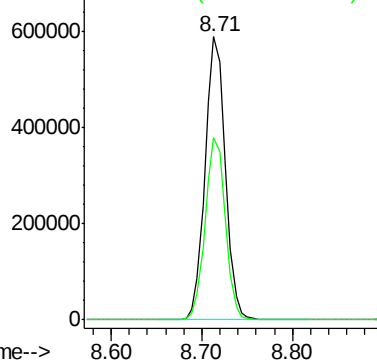
Ion Ratio Lower Upper

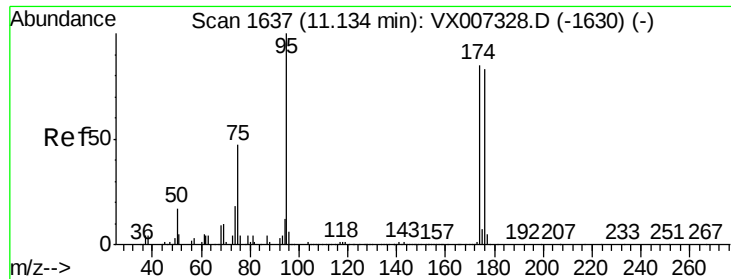
98 100

100 64.3 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0

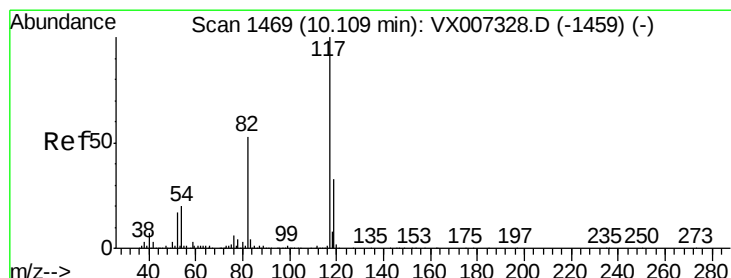
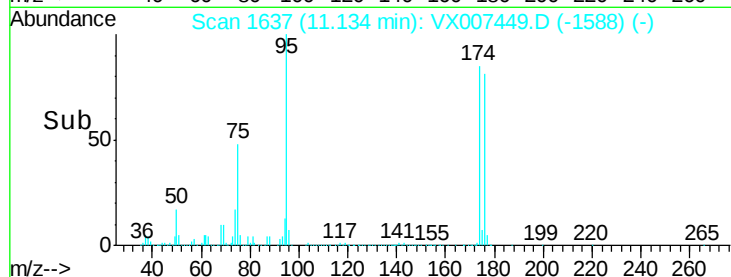
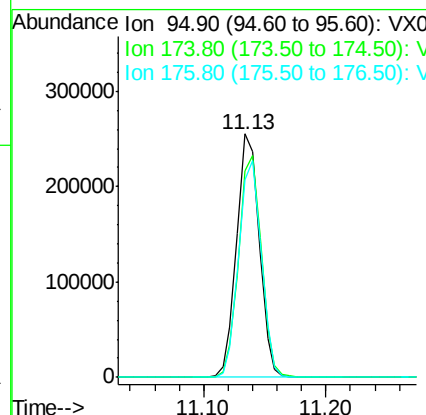
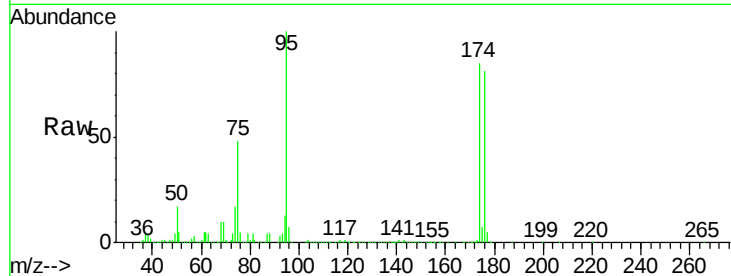




#62
4-Bromofluorobenzene
Concen: 48.544 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX007449.D
Acq: 08 Feb 2019 18:22

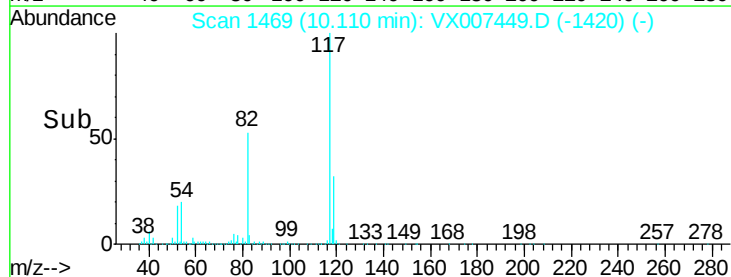
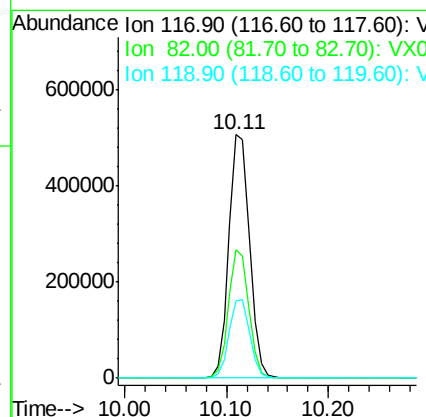
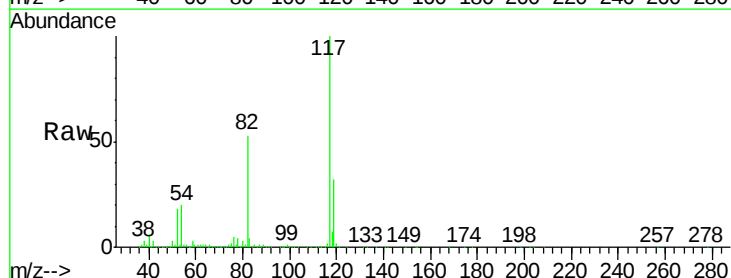
Instrument :
MSVOA_X
ClientSampleId :

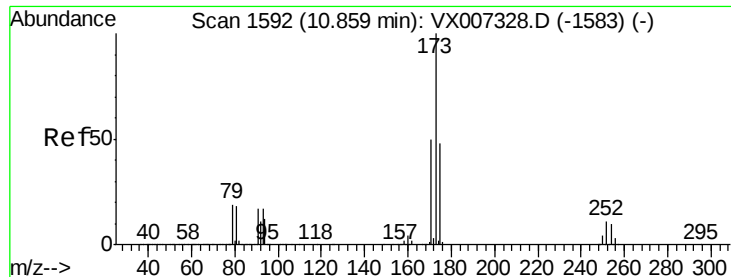
Tot Ion: 95 Resp: 326277
Ion Ratio Lower Upper
95 100
174 91.2 0.0 189.2
176 89.3 0.0 186.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX007449.D
Acq: 08 Feb 2019 18:22

Tgt Ion: 117 Resp: 715092
Ion Ratio Lower Upper
117 100
82 52.8 42.1 63.1
119 31.5 26.5 39.7





#71

Bromoform

Concen: 4.057 ug/l

RT: 11.03 min Scan# 1620

Delta R.T. 0.17 min

Lab File: VX007449.D

Acq: 08 Feb 2019 18:22

Instrument :

MSVOA_X

ClientSampled :

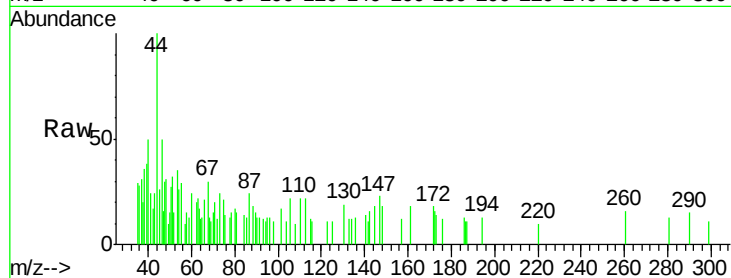
Tot Ion:173 Resp: 137

Ion Ratio Lower Upper

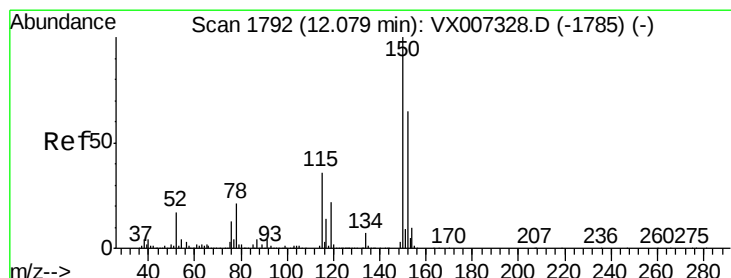
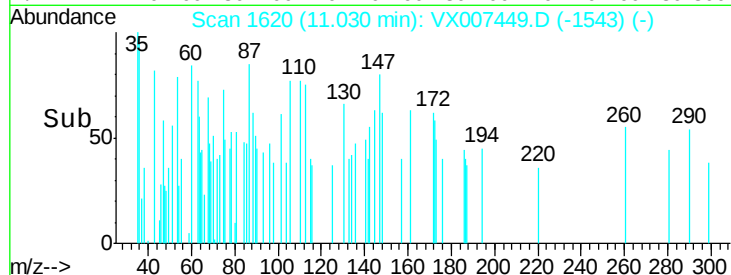
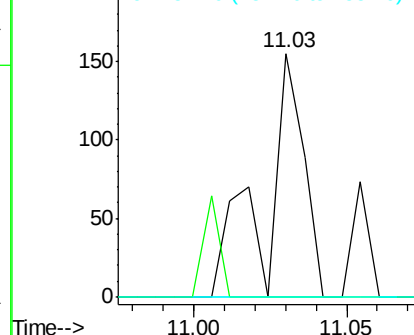
173 100

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: VX007449.D

Acq: 08 Feb 2019 18:22

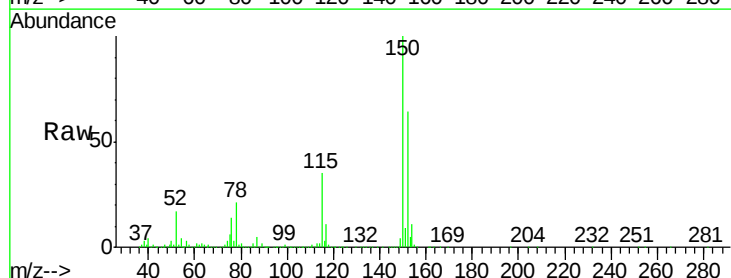
Tgt Ion:152 Resp: 346130

Ion Ratio Lower Upper

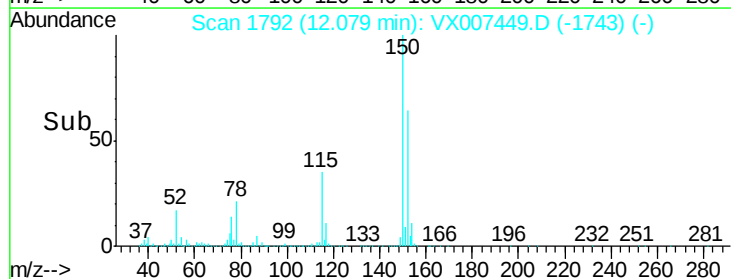
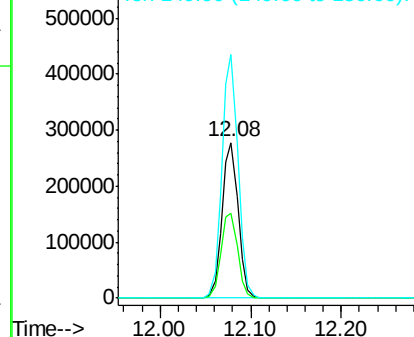
152 100

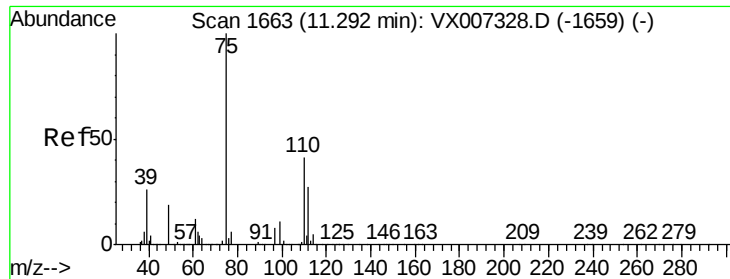
115 56.5 38.0 114.0

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: 23.231 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007449.D

Acq: 08 Feb 2019 18:22

Instrument :

MSVOA_X

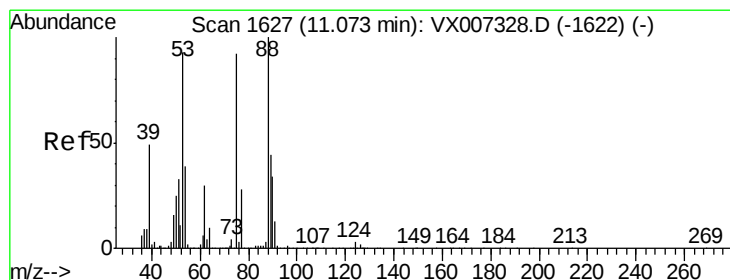
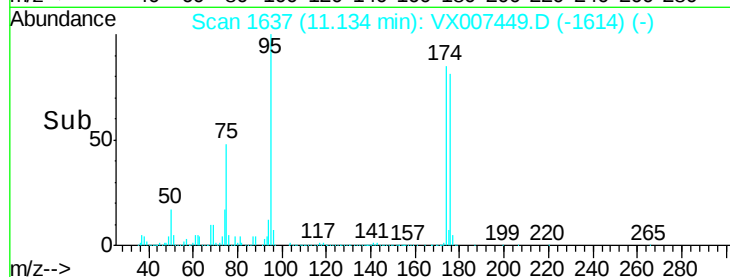
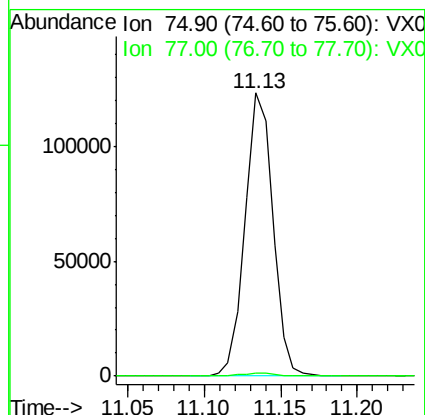
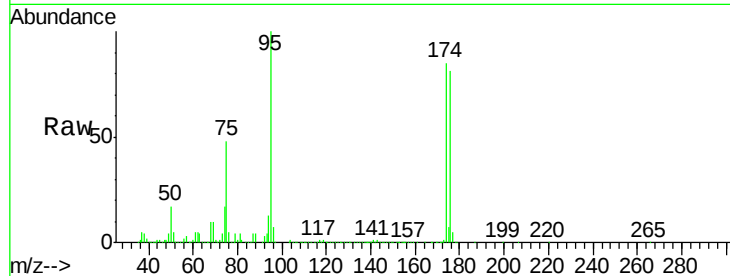
ClientSampleId :

Tot Ion: 75 Resp: 156403

Ion Ratio Lower Upper

75 100

77 1.3 23.0 69.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 69.959 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007449.D

Acq: 08 Feb 2019 18:22

Tgt Ion: 75 Resp: 156403

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

89 0.1 41.4 62.0#

