

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX020719\
 Data File : VX007422.D
 Acq On : 07 Feb 2019 13:49
 Operator : JC/SP
 Sample : PB116891TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB116891TB

Quant Time: Feb 08 22:08:41 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	525453	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	816377	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	790240	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	374696	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	282712	50.69	ug/l	0.00
Spiked Amount			Recovery	=	101.38%	
35) Dibromofluoromethane	5.51	113	258252	48.62	ug/l	0.00
Spiked Amount			Recovery	=	97.24%	
50) Toluene-d8	8.71	98	997561	50.62	ug/l	0.00
Spiked Amount			Recovery	=	101.24%	
62) 4-Bromofluorobenzene	11.13	95	348259	48.40	ug/l	0.00
Spiked Amount			Recovery	=	96.80%	

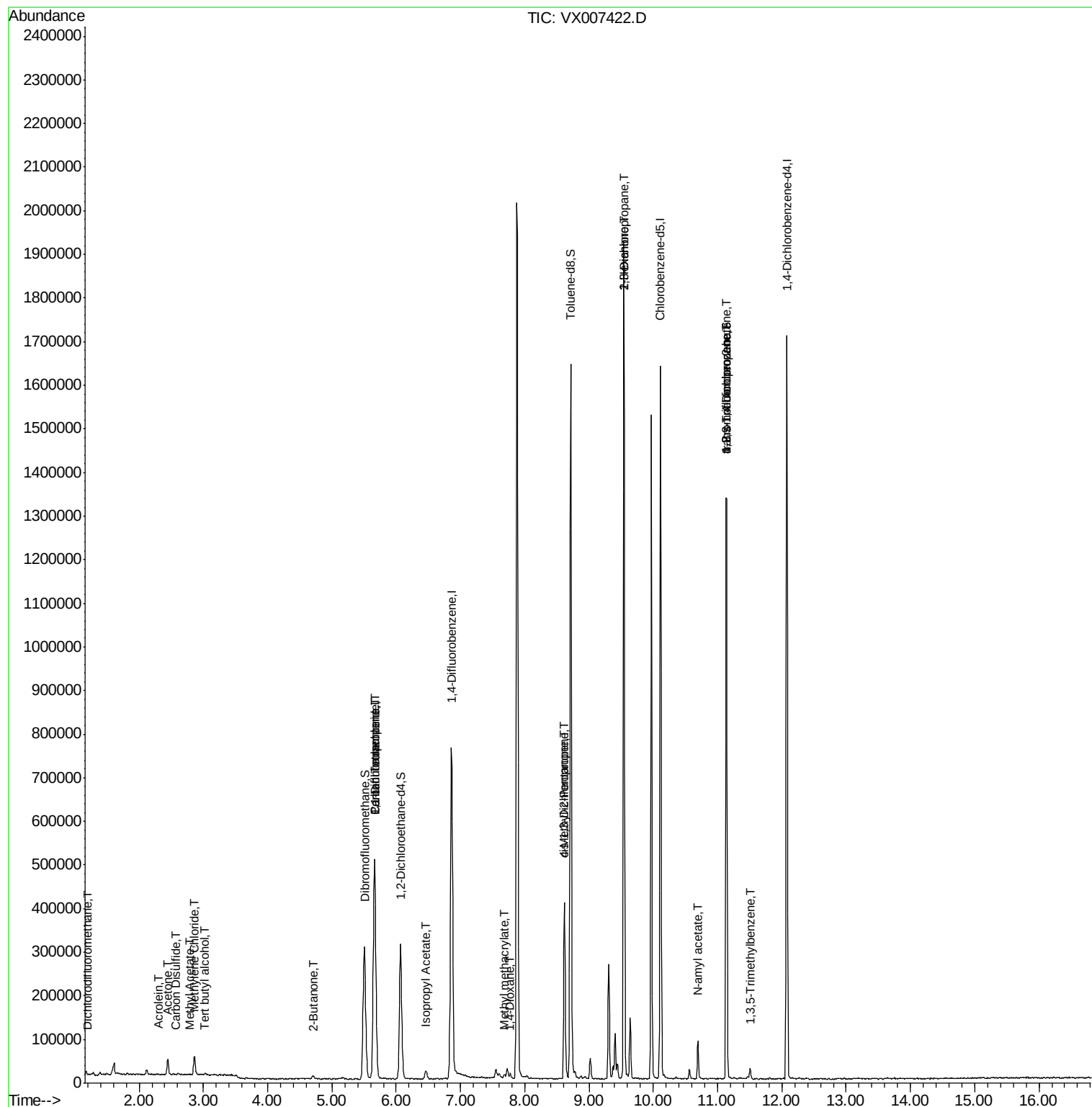
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	357	0.233	ug/l	83
5) Bromomethane	1.64	94	483	Below Cal		83
11) Tert butyl alcohol	3.01	59	1172	1.015	ug/l #	81
13) Acrolein	2.30	56	125	0.231	ug/l #	14
16) Acetone	2.45	43	39860	15.602	ug/l	95
17) Carbon Disulfide	2.57	76	1651	2.242	ug/l #	15
18) Methyl Acetate	2.78	43	2541	0.970	ug/l #	51
20) Methylene Chloride	2.86	84	20642	3.591	ug/l #	91
25) 2-Butanone	4.70	43	11855	3.261	ug/l #	84
36) 1,1-Dichloropropene	5.66	75	33731	4.605	ug/l #	49
38) Carbon Tetrachloride	5.66	117	48349	6.804	ug/l #	17
43) Isopropyl Acetate	6.46	43	26019	2.277	ug/l	96
48) Methyl methacrylate	7.68	41	12575	2.200	ug/l #	13
49) 1,4-Dioxane	7.76	88	80	7.490	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	136488	18.141	ug/l #	50
54) cis-1,3-Dichloropropene	8.62	75	64724	8.228	ug/l #	63
57) 1,3-Dichloropropane	9.54	76	16442	1.782	ug/l #	44
59) 2-Hexanone	9.54	43	206044	35.193	ug/l #	51
74) N-amyl acetate	10.69	43	20618	2.093	ug/l #	55
76) 1,2,3-Trichloropropane	11.13	75	168931	23.178	ug/l #	32
80) 1,3,5-Trimethylbenzene	11.51	105	10005	0.480	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.13	75	168931	69.812	ug/l #	9

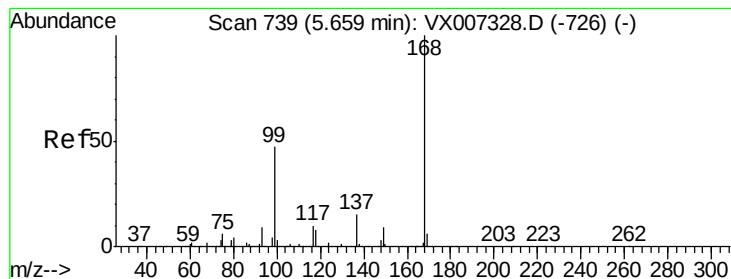
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :
PB116891TB

Quant Time: Feb 08 22:08:41 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
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: VX007422.D

Acq: 07 Feb 2019 13:49

Instrument :

MSVOA_X

ClientSampleId :

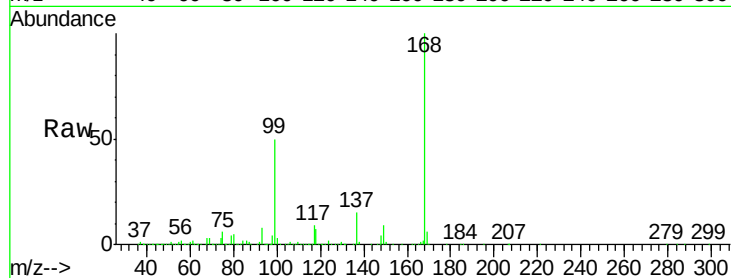
PB116891TB

Tot Ion:168 Resp: 525453

Ion Ratio Lower Upper

168 100

99 50.4 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

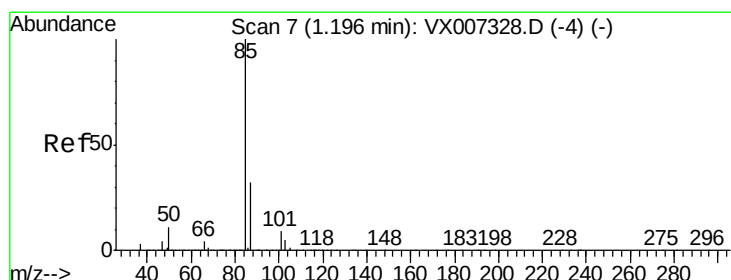
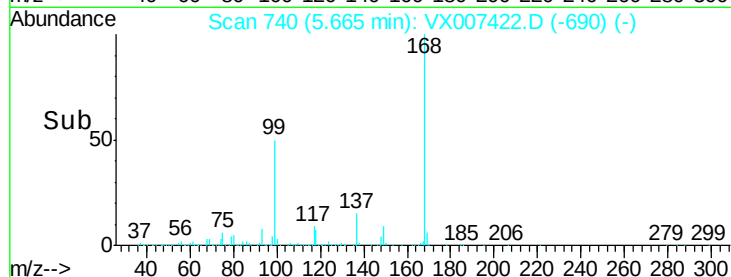
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.233 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX007422.D

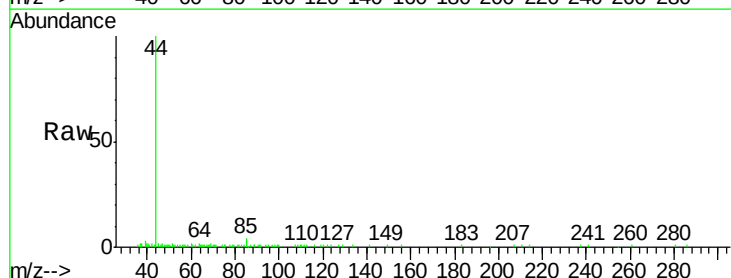
Acq: 07 Feb 2019 13:49

Tgt Ion: 85 Resp: 357

Ion Ratio Lower Upper

85 100

87 22.1 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

400

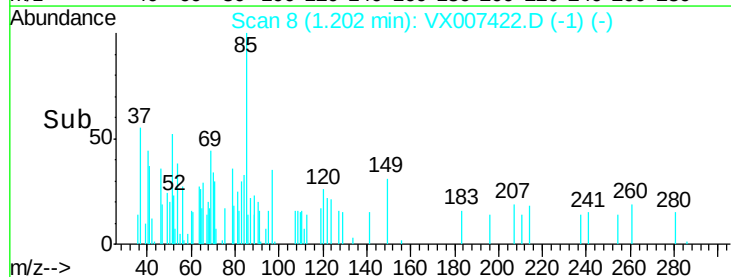
300

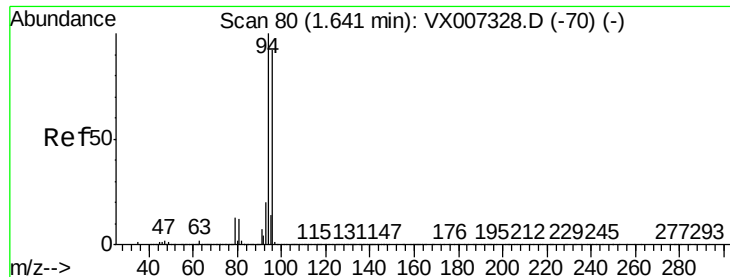
200

100

0

Time--> 1.18 1.20 1.22 1.24





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX007422.D

Acq: 07 Feb 2019 13:49

Instrument :

MSVOA_X

ClientSampleId :

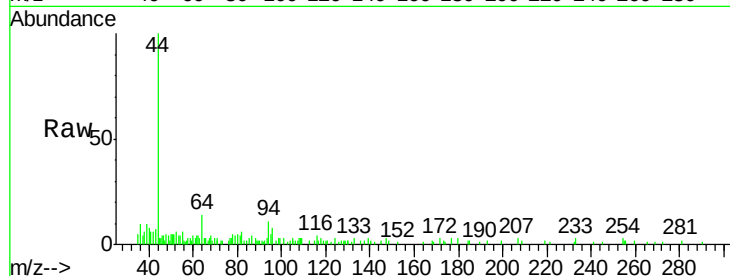
PB116891TB

Tot Ion: 94 Resp: 483

Ion Ratio Lower Upper

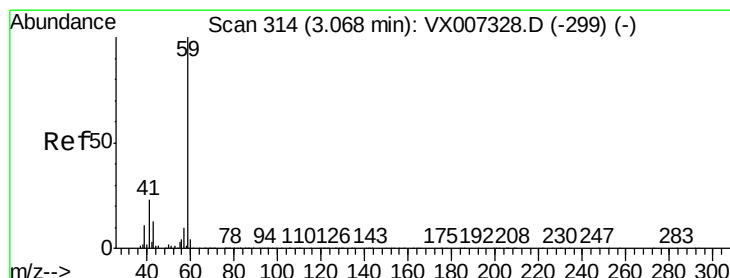
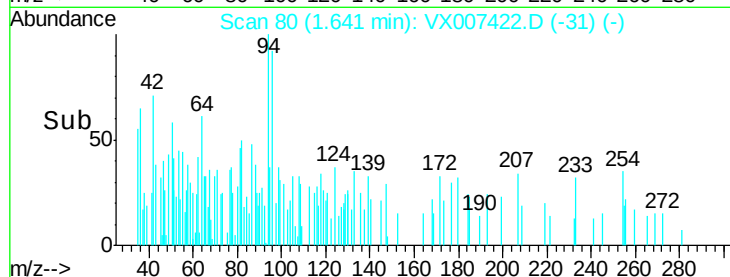
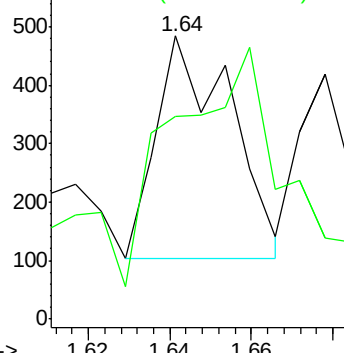
94 100

96 76.6 73.9 110.9



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#11

Tert butyl alcohol

Concen: 1.015 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.06 min

Lab File: VX007422.D

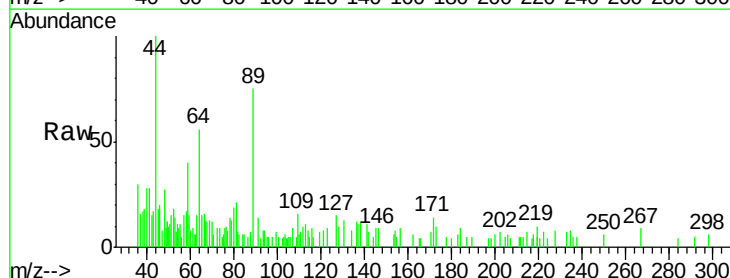
Acq: 07 Feb 2019 13:49

Tgt Ion: 59 Resp: 1172

Ion Ratio Lower Upper

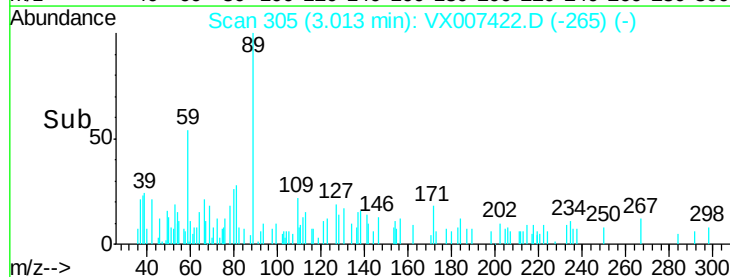
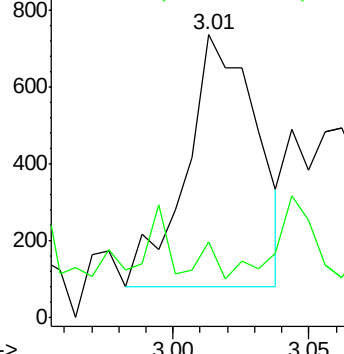
59 100

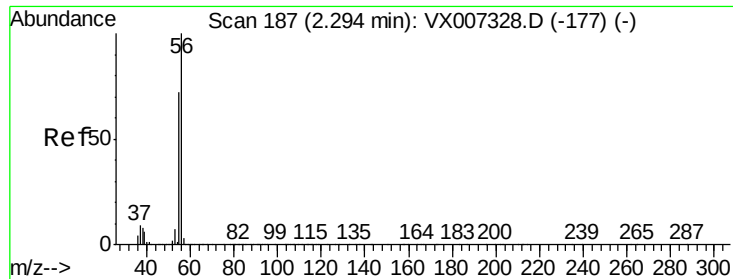
57 17.2 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.231 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX007422.D

Acq: 07 Feb 2019 13:49

Instrument :

MSVOA_X

ClientSampleId :

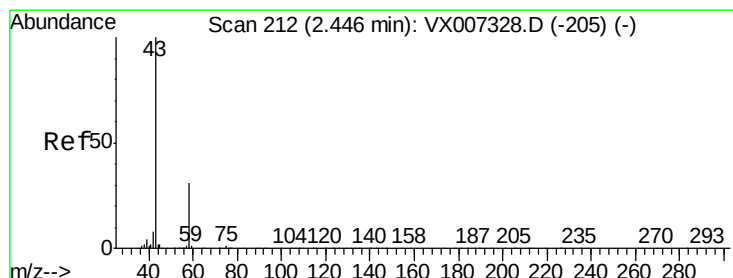
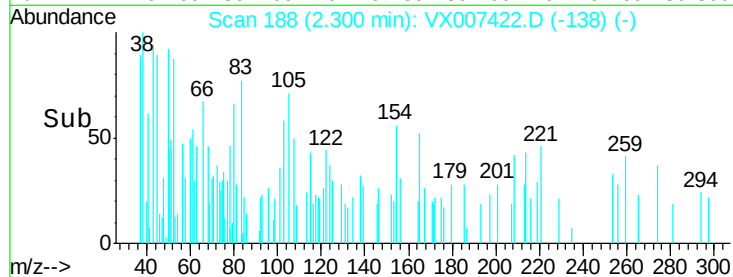
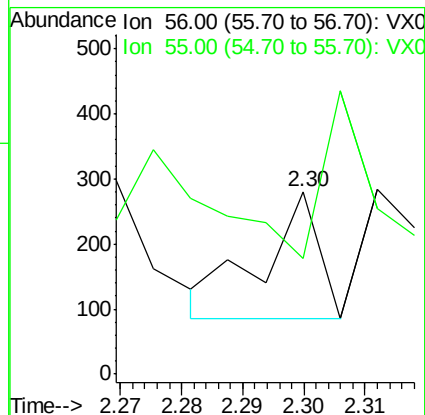
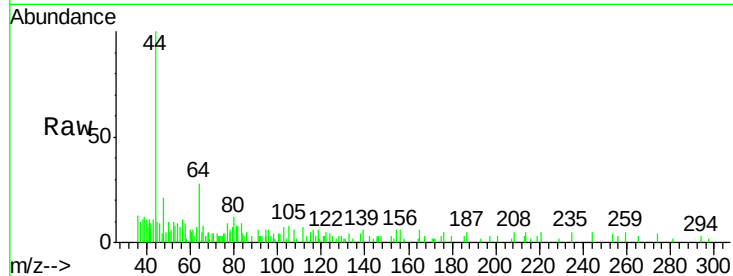
PB116891TB

Tot Ion: 56 Resp: 125

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



#16

Acetone

Concen: 15.602 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007422.D

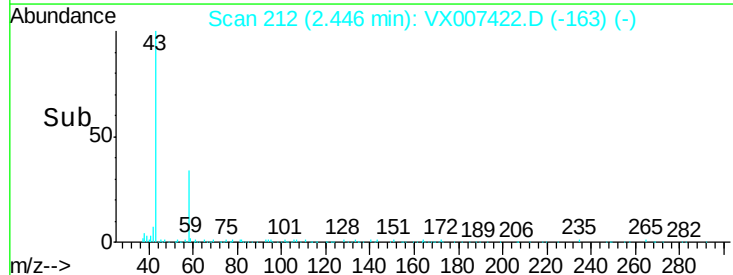
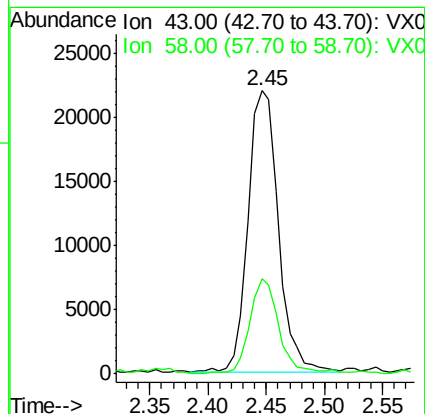
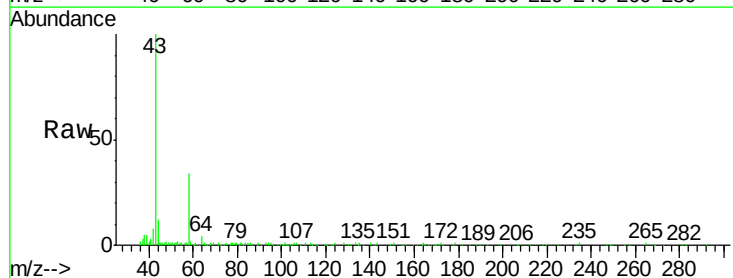
Acq: 07 Feb 2019 13:49

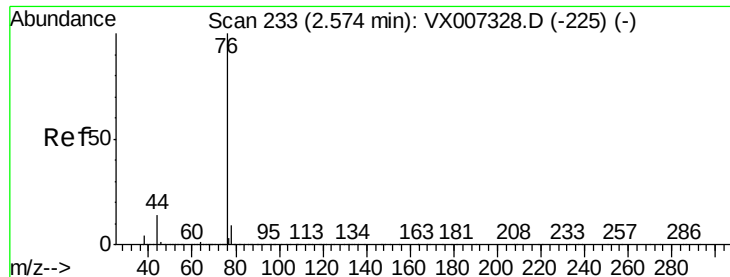
Tgt Ion: 43 Resp: 39860

Ion Ratio Lower Upper

43 100

58 34.0 24.9 37.3





#17

Carbon Disulfide

Concen: 2.242 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007422.D

Acq: 07 Feb 2019 13:49

Instrument :

MSVOA_X

ClientSampled :

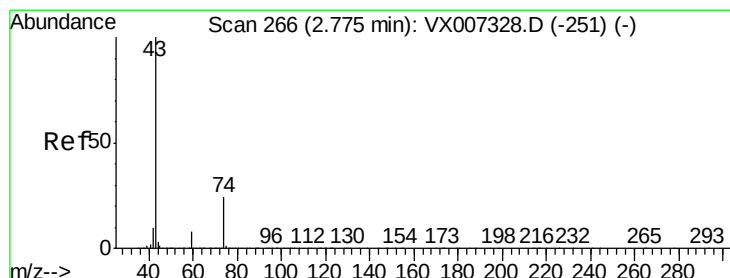
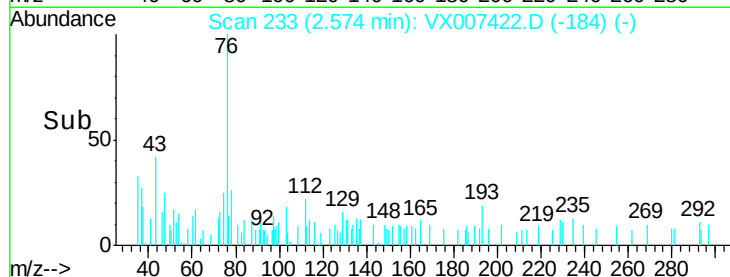
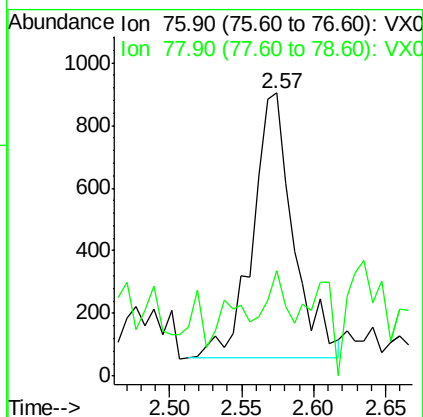
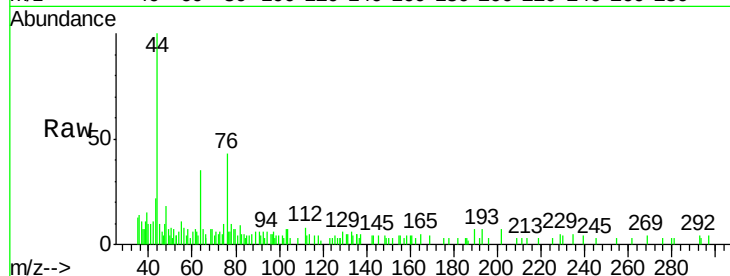
PB116891TB

Tot Ion: 76 Resp: 1651

Ion Ratio Lower Upper

76 100

78 39.6 7.1 10.7#



#18

Methyl Acetate

Concen: 0.970 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX007422.D

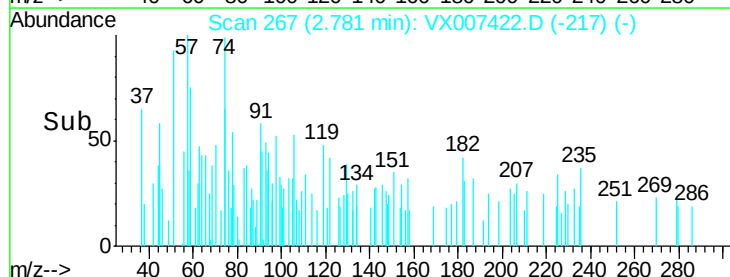
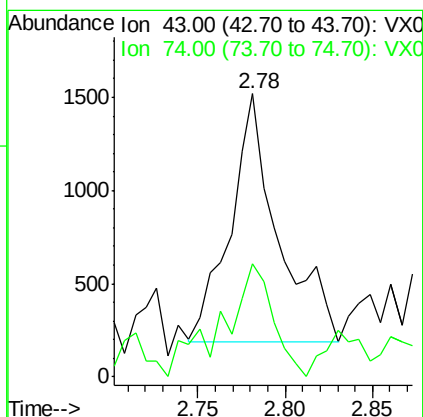
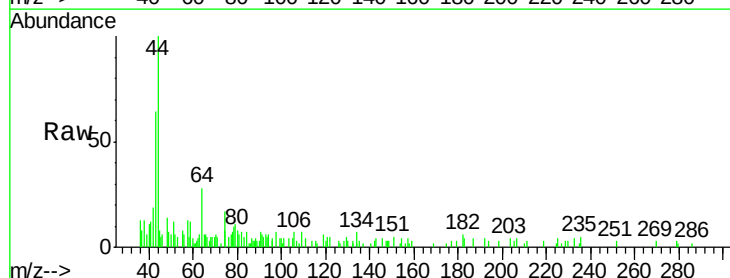
Acq: 07 Feb 2019 13:49

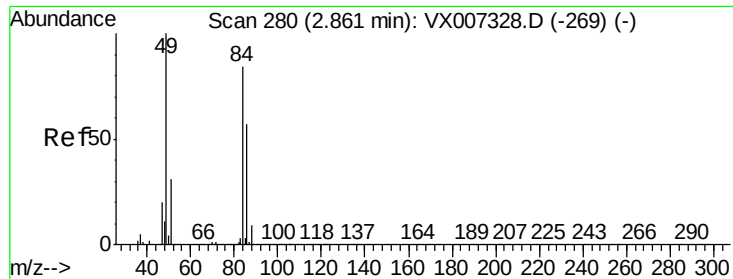
Tgt Ion: 43 Resp: 2541

Ion Ratio Lower Upper

43 100

74 48.6 19.4 29.2#

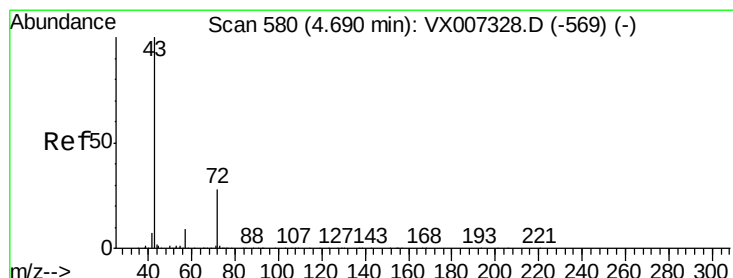
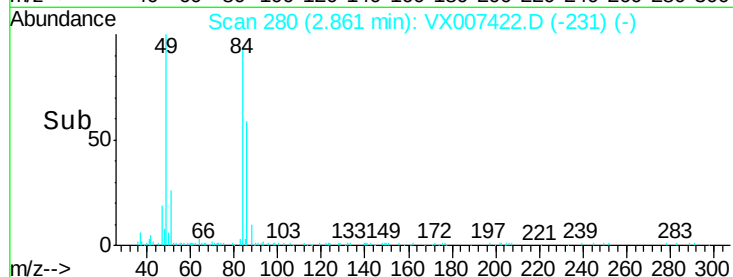
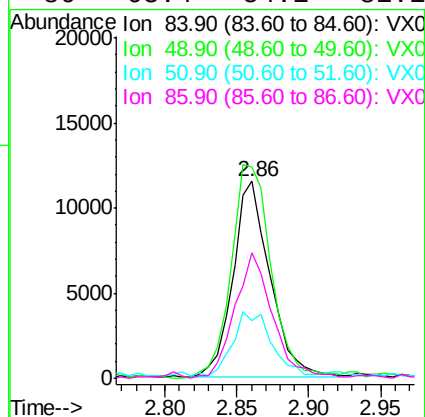
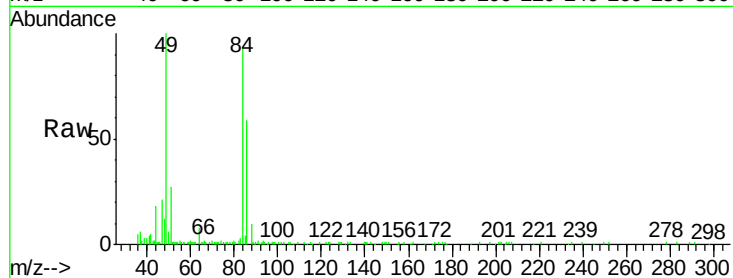




#20
Methvlene Chloride
Concen: 3.591 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007422.D
Acq: 07 Feb 2019 13:49

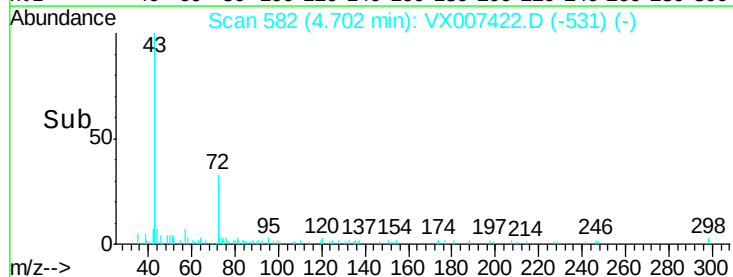
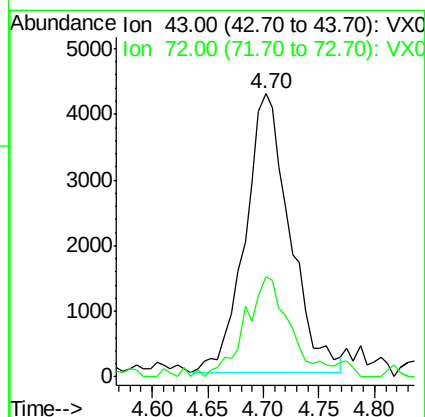
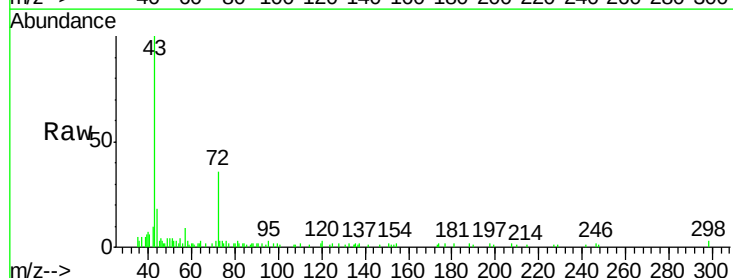
Instrument :
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ClientSampleId :
PB116891TB

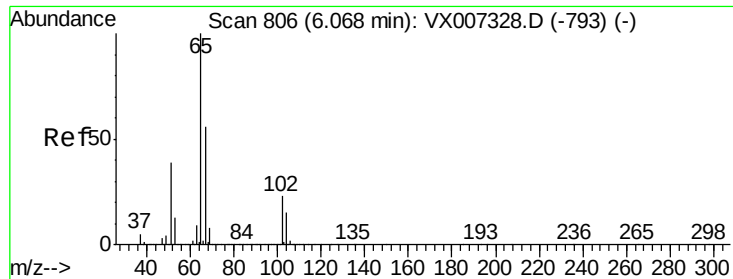
Tot Ion: 84 Resp: 20642
Ion Ratio Lower Upper
84 100
49 107.4 94.8 142.2
51 28.3 29.8 44.8#
86 63.4 54.1 81.1



#25
2-Butanone
Concen: 3.261 ug/l
RT: 4.70 min Scan# 582
Delta R.T. 0.01 min
Lab File: VX007422.D
Acq: 07 Feb 2019 13:49

Tgt Ion: 43 Resp: 11855
Ion Ratio Lower Upper
43 100
72 36.2 22.2 33.2#

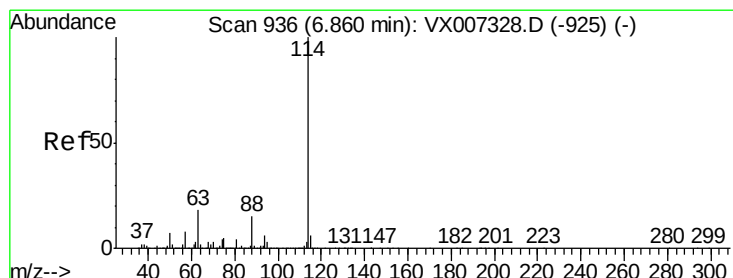
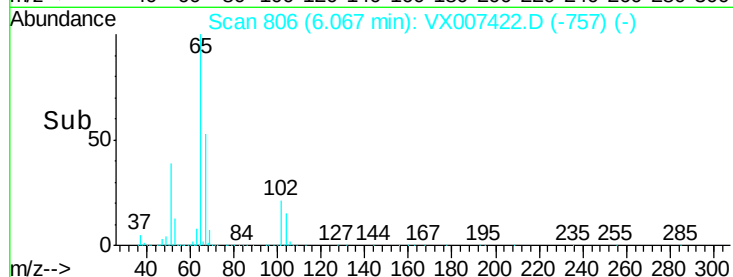
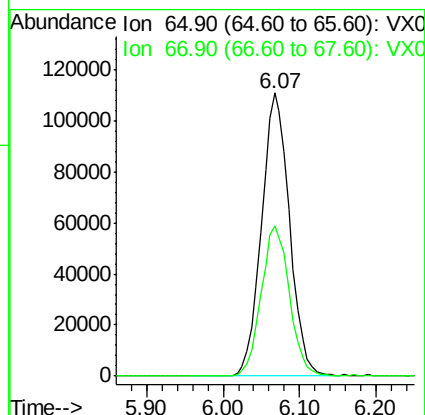
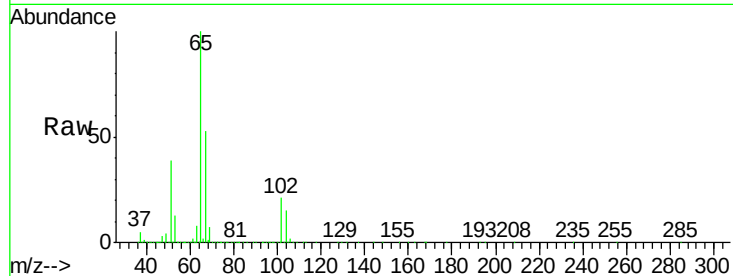




#33
 1,2-Dichloroethane-d4
 Concen: 50.690 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX007422.D
 Acq: 07 Feb 2019 13:49

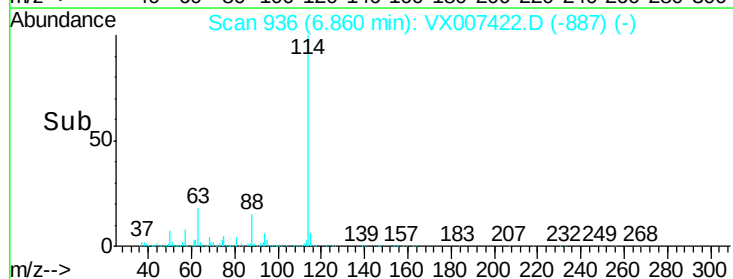
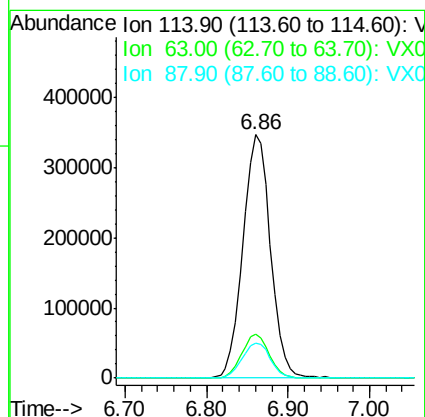
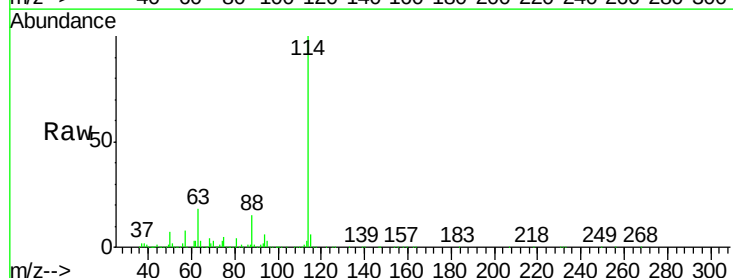
Instrument :
 MSVOA_X
 ClientSampleId :
 PB116891TB

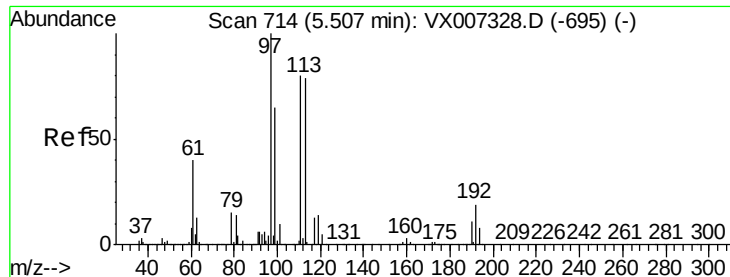
Tot Ion: 65 Resp: 282712
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 108.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX007422.D
 Acq: 07 Feb 2019 13:49

Tgt Ion: 114 Resp: 816377
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 35.6
 88 14.5 0.0 29.6





#35

Dibromofluoromethane

Concen: 48.618 ug/l

RT: 5.51 min Scan# 714

Delta R.T. -0.00 min

Lab File: VX007422.D

Acq: 07 Feb 2019 13:49

Instrument :

MSVOA_X

ClientSampleId :

PB116891TB

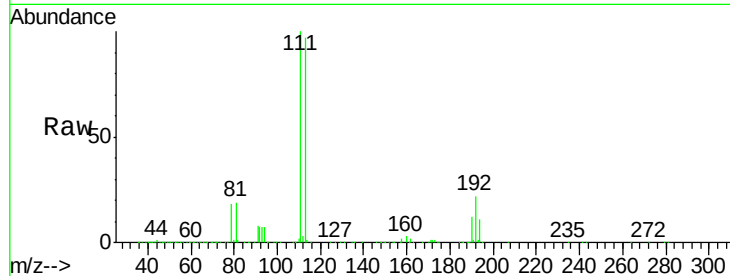
Tot Ion:113 Resp: 258252

Ion Ratio Lower Upper

113 100

111 102.1 81.8 122.8

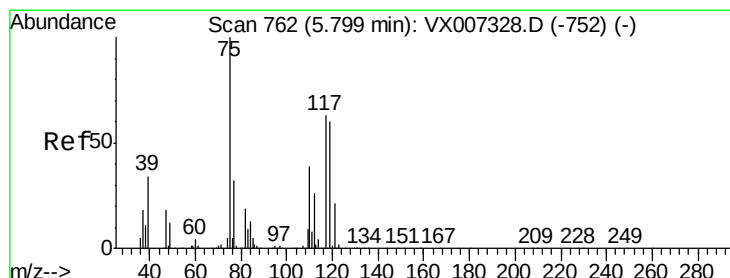
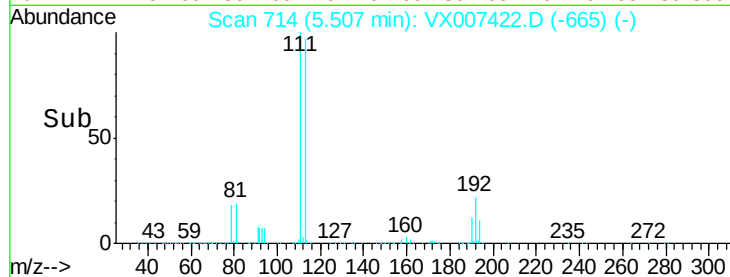
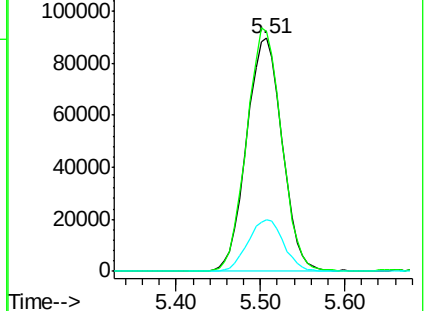
192 22.3 18.5 27.7



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: 4.605 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007422.D

Acq: 07 Feb 2019 13:49

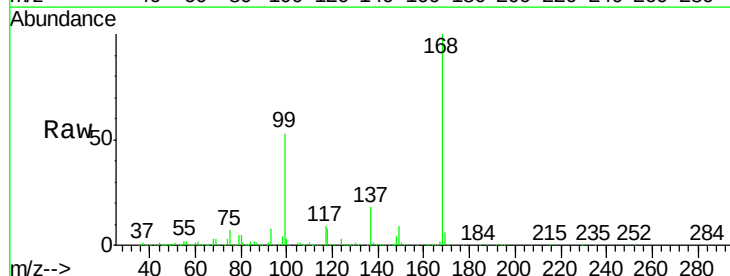
Tgt Ion: 75 Resp: 33731

Ion Ratio Lower Upper

75 100

110 10.7 20.0 59.9#

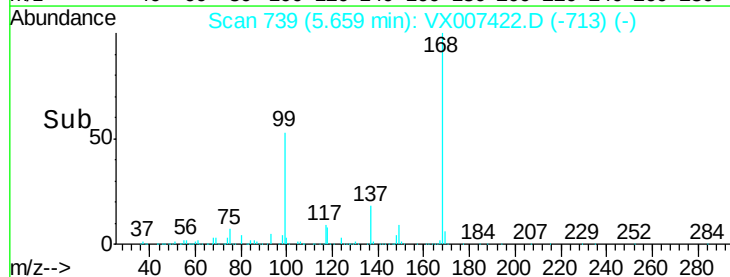
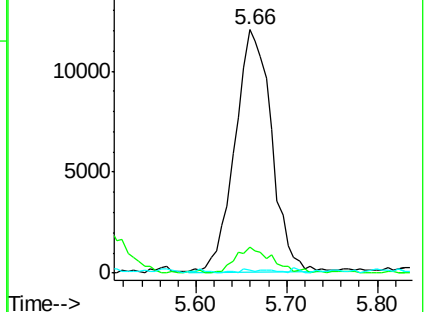
77 0.7 24.7 37.1#

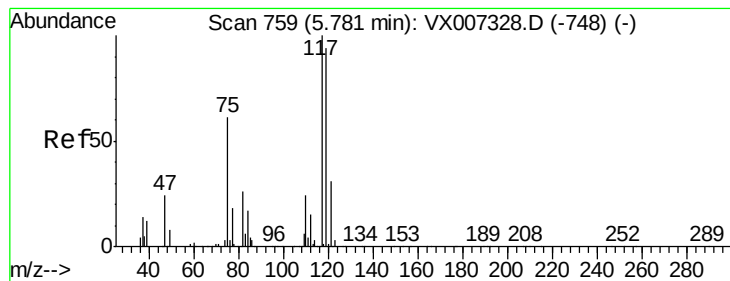


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.804 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX007422.D

Acq: 07 Feb 2019 13:49

Instrument :

MSVOA_X

ClientSampleId :

PB116891TB

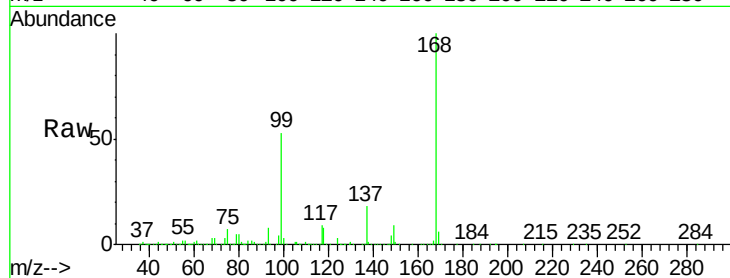
Tot Ion:117 Resp: 48349

Ion Ratio Lower Upper

117 100

119 5.0 75.3 112.9#

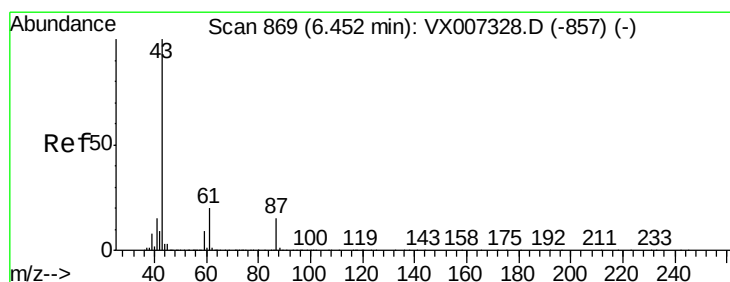
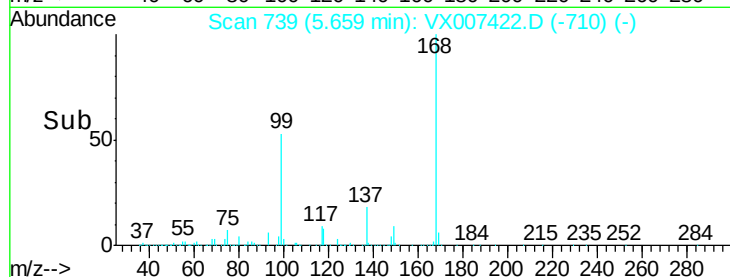
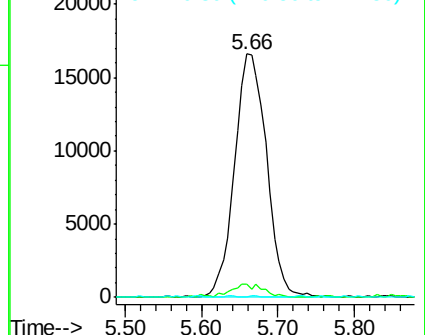
121 0.4 25.0 37.4#



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



#43

Isopropyl Acetate

Concen: 2.277 ug/l

RT: 6.46 min Scan# 870

Delta R.T. 0.01 min

Lab File: VX007422.D

Acq: 07 Feb 2019 13:49

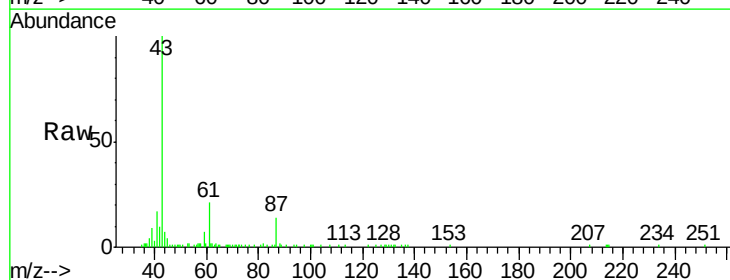
Tgt Ion: 43 Resp: 26019

Ion Ratio Lower Upper

43 100

61 22.0 16.1 24.1

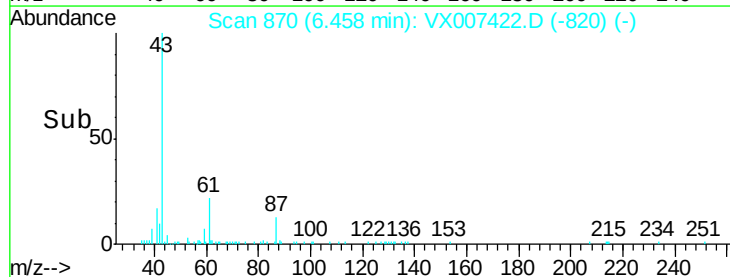
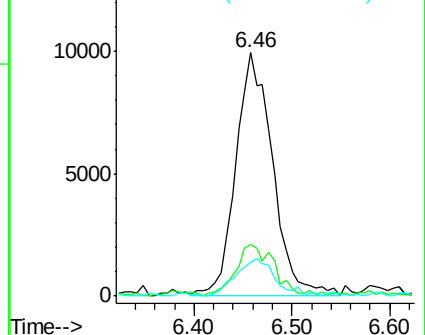
87 16.2 11.5 17.3

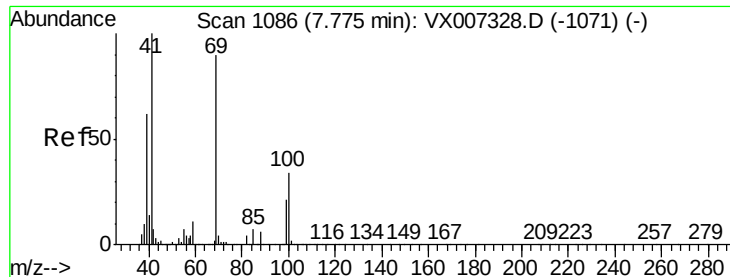


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

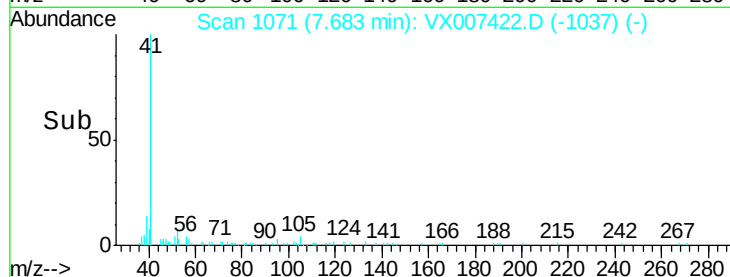
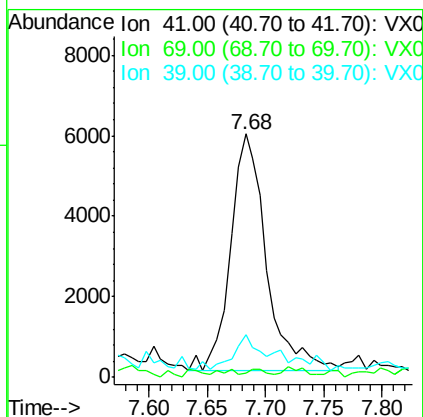
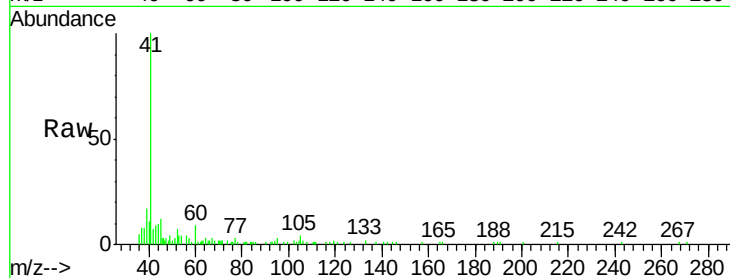




#48
Methvl methacrylate
Concen: 2.200 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX007422.D
Acq: 07 Feb 2019 13:49

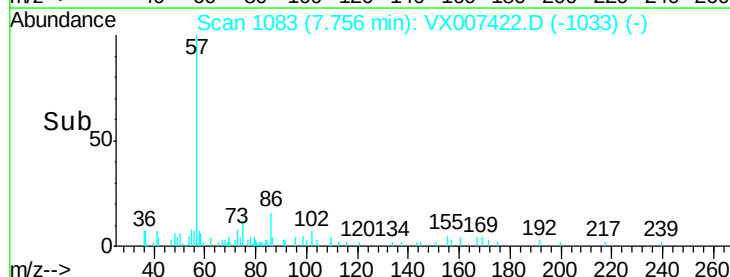
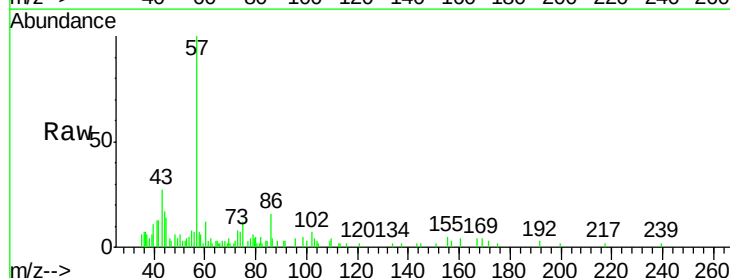
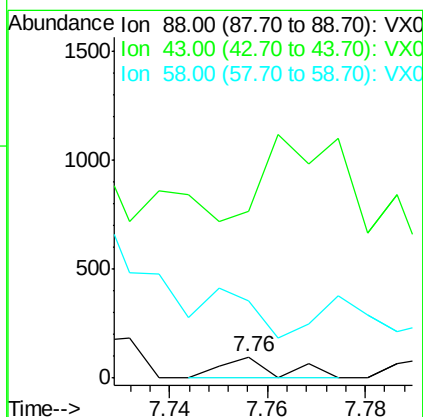
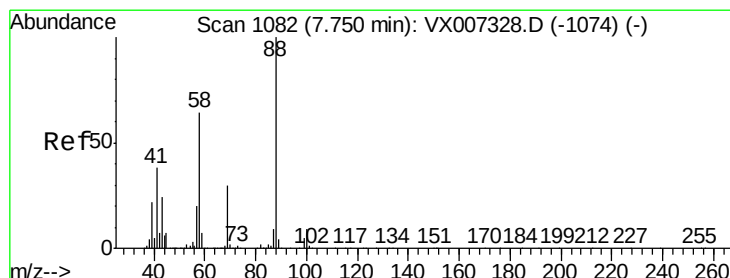
Instrument :
MSVOA_X
ClientSampleId :
PB116891TB

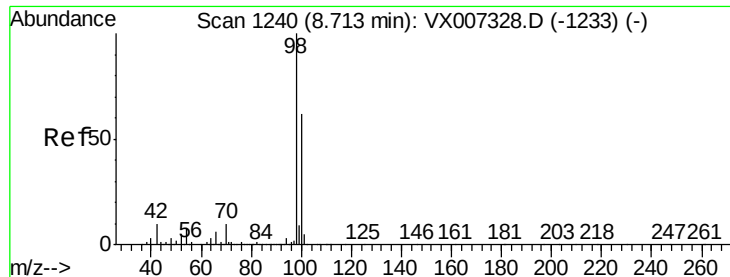
Tot Ion	Ratio	Lower	Upper
41	100		
69	1.6	70.2	105.4#
39	0.0	47.4	71.0#



#49
1,4-Dioxane
Concen: 7.490 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. 0.01 min
Lab File: VX007422.D
Acq: 07 Feb 2019 13:49

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	24.2	36.4#
58	431.3	53.0	79.4#





#50

Toluene-d8

Concen: 50.617 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007422.D

Acq: 07 Feb 2019 13:49

Instrument :

MSVOA_X

ClientSampleId :

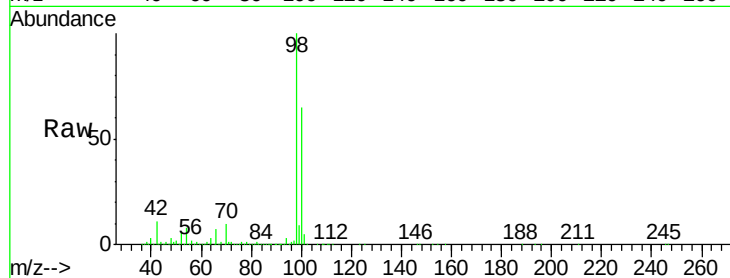
PB116891TB

Tot Ion: 98 Resp: 997561

Ion Ratio Lower Upper

98 100

100 63.9 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

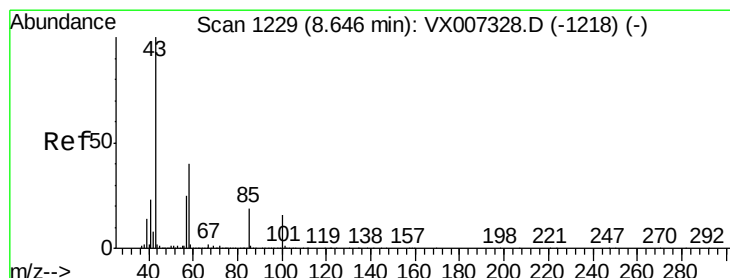
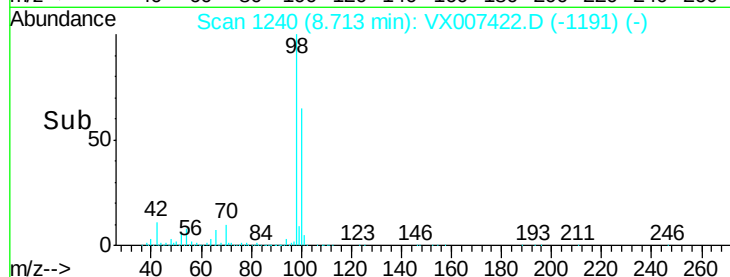
600000

400000

200000

0

Time--> 8.60 8.70 8.80



#51

4-Methyl-2-Pentanone

Concen: 18.141 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007422.D

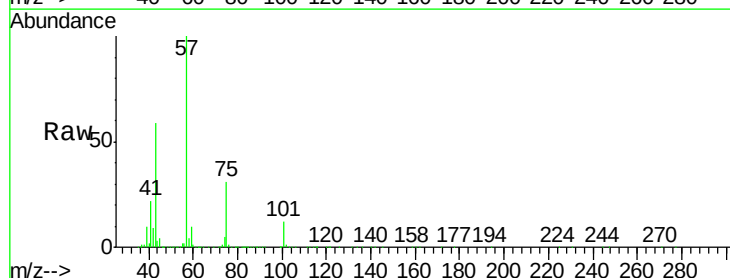
Acq: 07 Feb 2019 13:49

Tgt Ion: 43 Resp: 136488

Ion Ratio Lower Upper

43 100

58 8.4 31.2 46.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

100000

80000

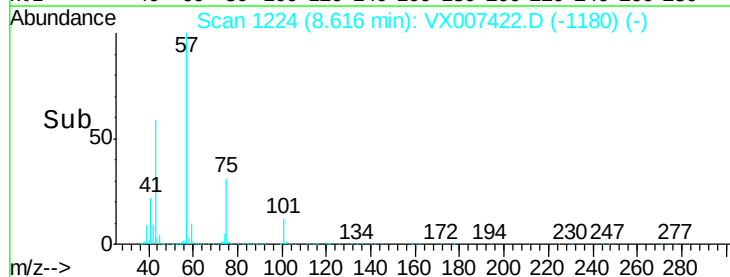
60000

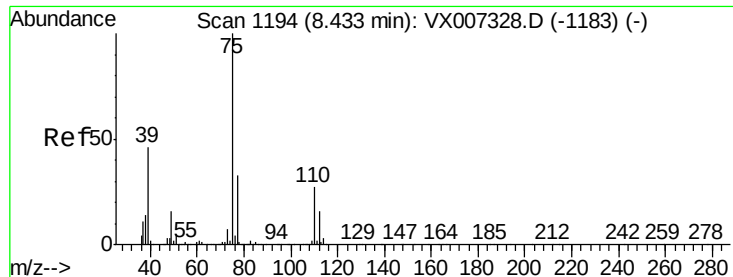
40000

20000

0

Time--> 8.50 8.55 8.60 8.65 8.70





#54

cis-1,3-Dichloropropene

Concen: 8.228 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007422.D

Acq: 07 Feb 2019 13:49

Instrument :

MSVOA_X

ClientSampleId :

PB116891TB

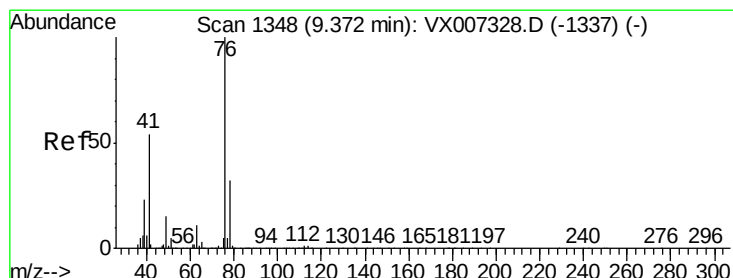
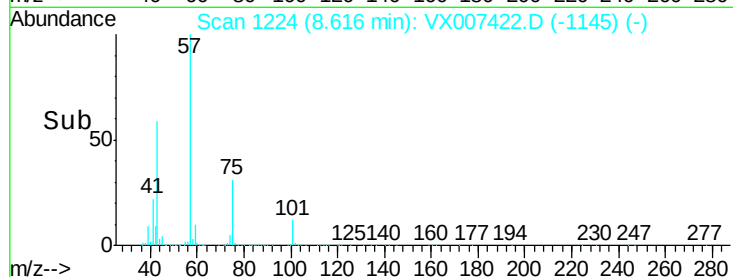
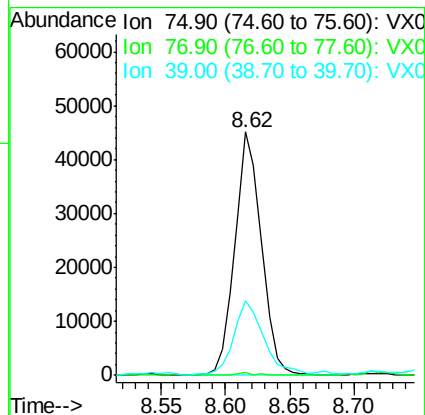
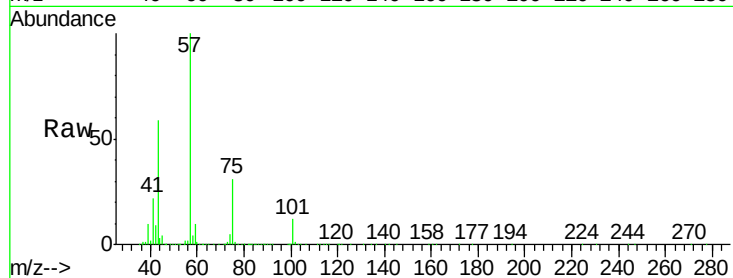
Tot Ion: 75 Resp: 64724

Ion Ratio Lower Upper

75 100

77 1.2 26.2 39.4#

39 30.2 37.1 55.7#



#57

1,3-Dichloropropane

Concen: 1.782 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007422.D

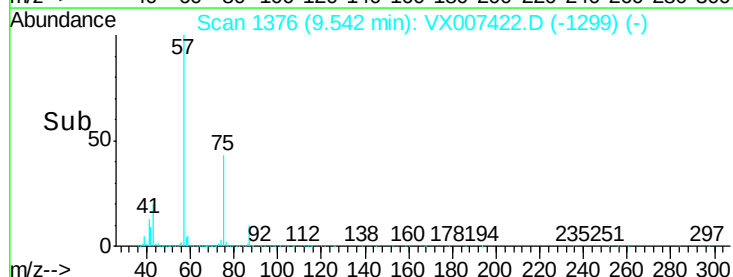
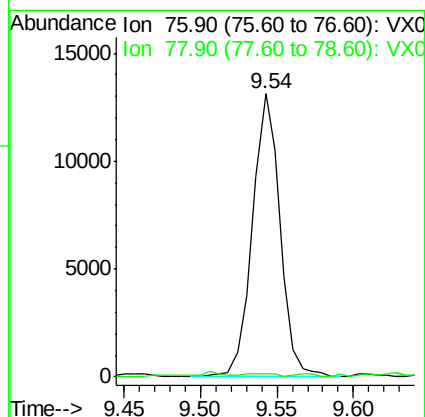
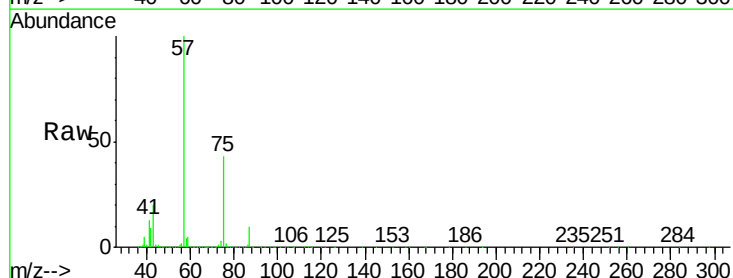
Acq: 07 Feb 2019 13:49

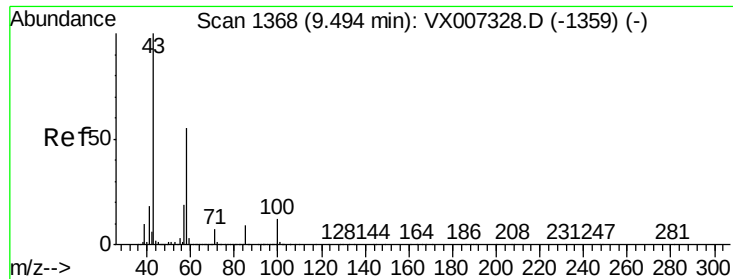
Tgt Ion: 76 Resp: 16442

Ion Ratio Lower Upper

76 100

78 1.2 25.8 38.8#

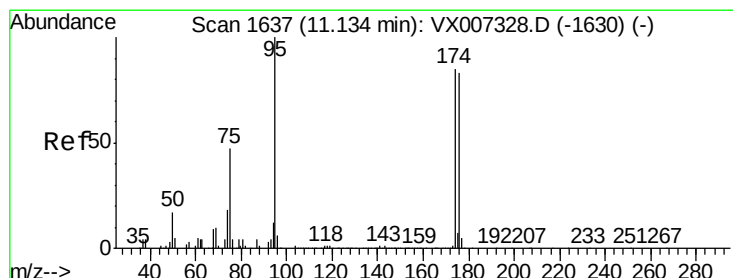
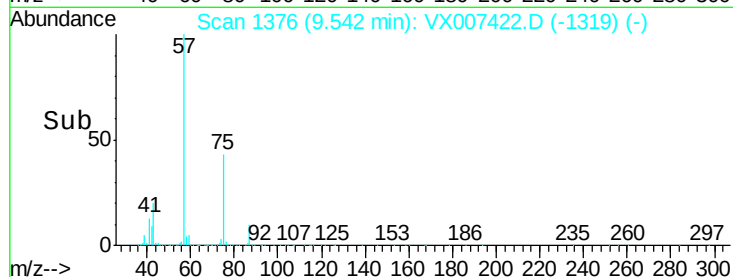
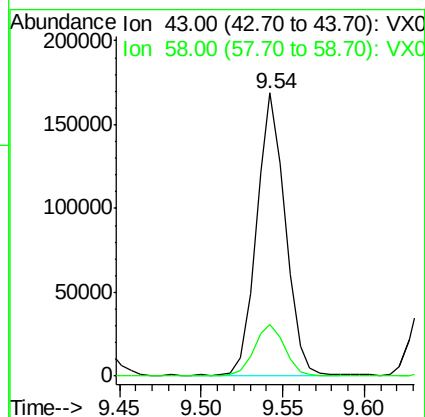
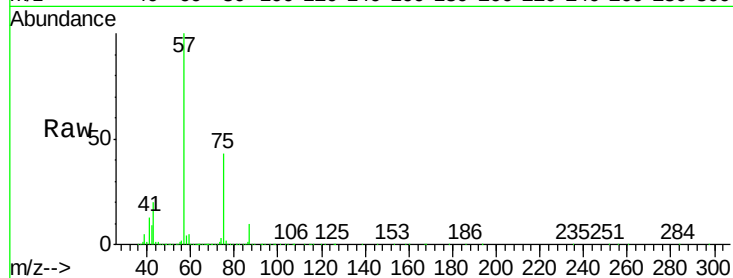




#59
2-Hexanone
Concen: 35.193 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.05 min
Lab File: VX007422.D
Acq: 07 Feb 2019 13:49

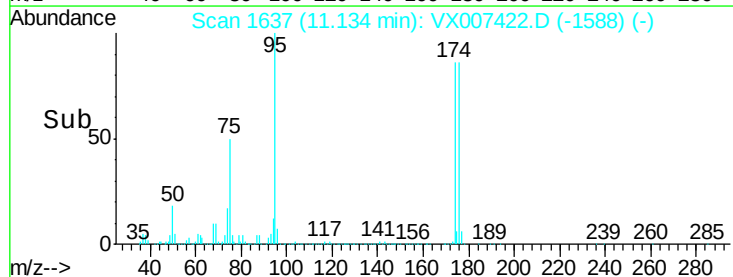
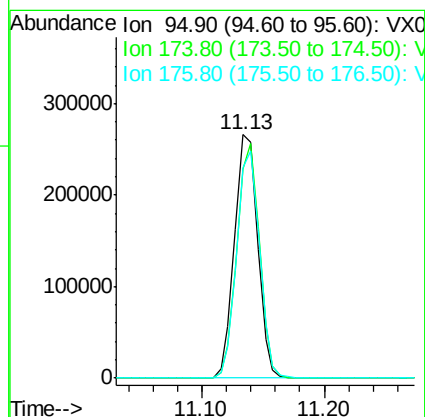
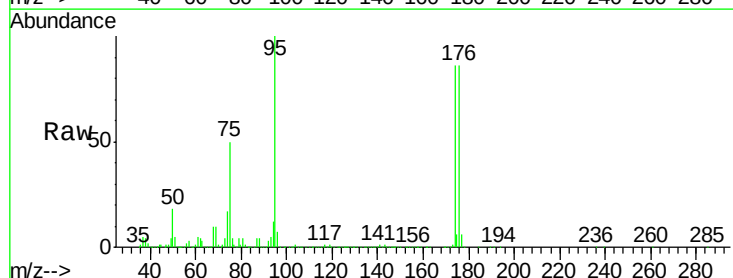
Instrument :
MSVOA_X
ClientSampleId :
PB116891TB

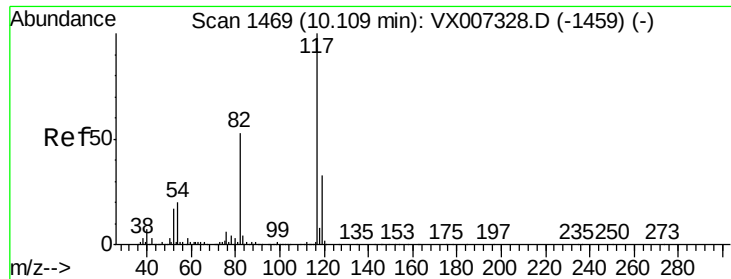
Tot Ion: 43 Resp: 206044
Ion Ratio Lower Upper
43 100
58 19.4 27.1 81.3#



#62
4-Bromofluorobenzene
Concen: 48.400 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX007422.D
Acq: 07 Feb 2019 13:49

Tgt Ion: 95 Resp: 348259
Ion Ratio Lower Upper
95 100
174 93.2 0.0 189.2
176 91.7 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: VX007422.D

Acq: 07 Feb 2019 13:49

Instrument :

MSVOA_X

ClientSampleId :

PB116891TB

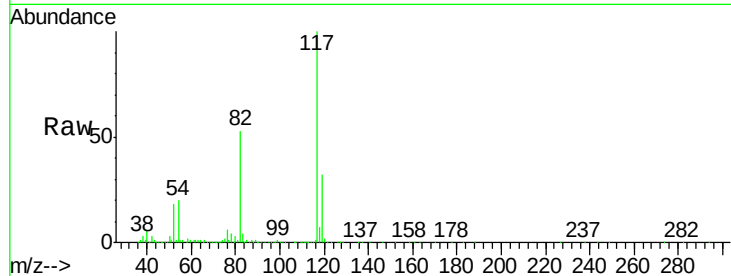
Tot Ion:117 Resp: 790240

Ion Ratio Lower Upper

117 100

82 52.8 42.1 63.1

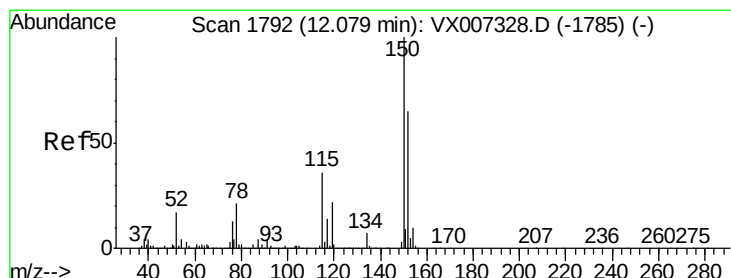
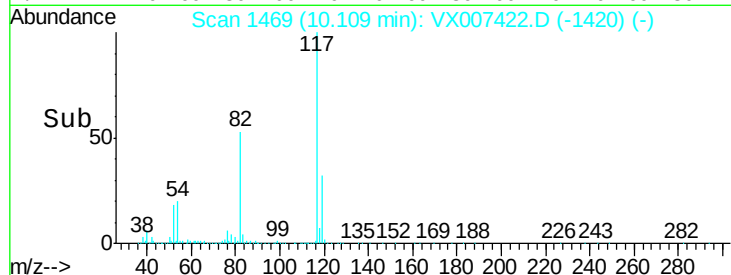
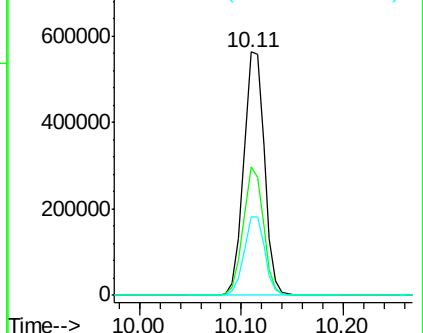
119 32.0 26.5 39.7



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: VX007422.D

Acq: 07 Feb 2019 13:49

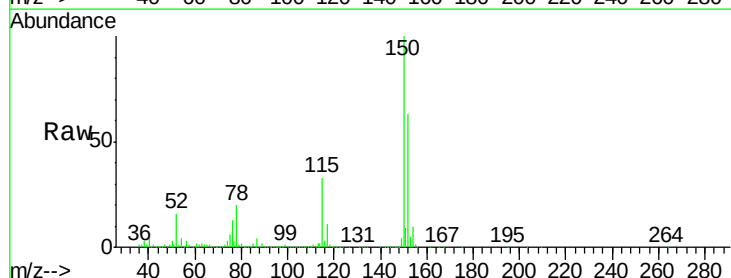
Tgt Ion:152 Resp: 374696

Ion Ratio Lower Upper

152 100

115 55.2 38.0 114.0

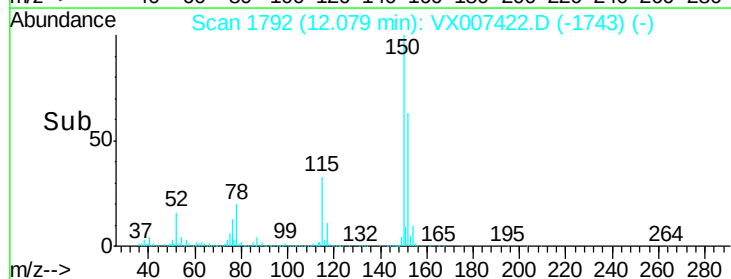
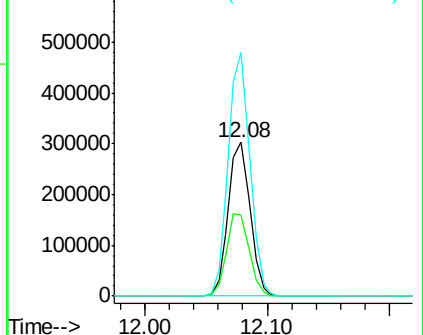
150 156.2 0.0 346.4

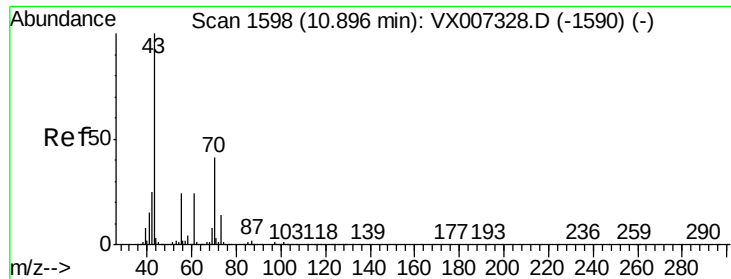


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

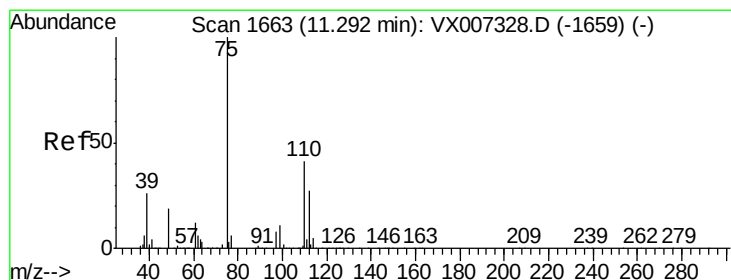
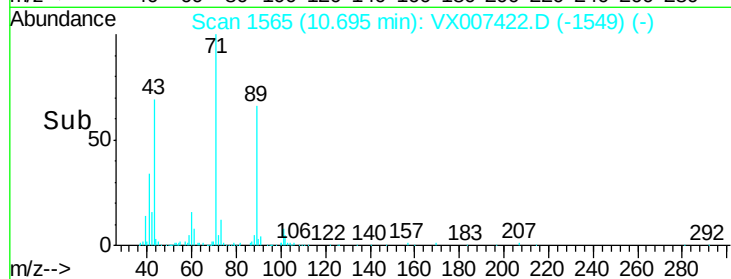
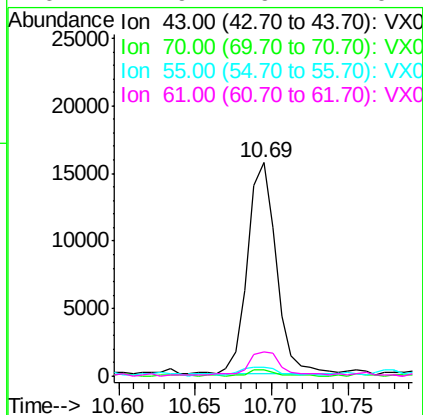
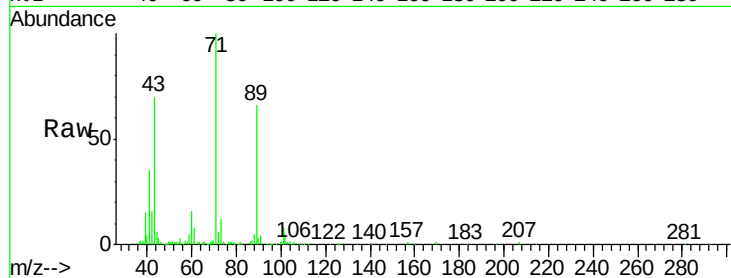




#74
N-amvl acetate
Concen: 2.093 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.20 min
Lab File: VX007422.D
Acq: 07 Feb 2019 13:49

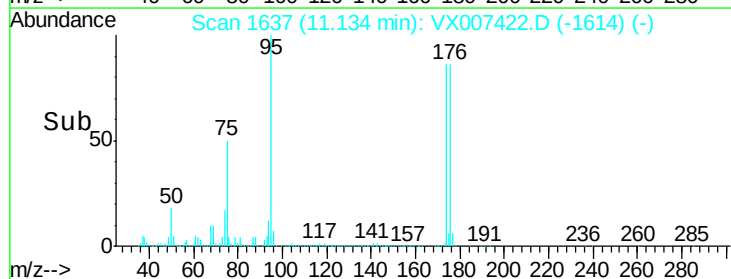
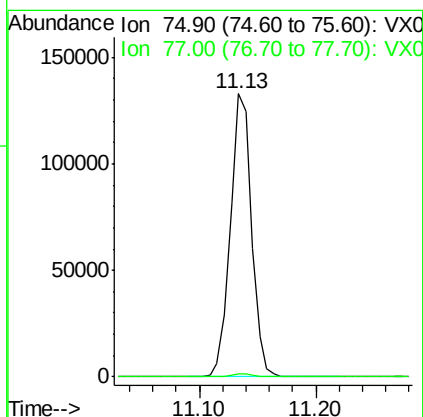
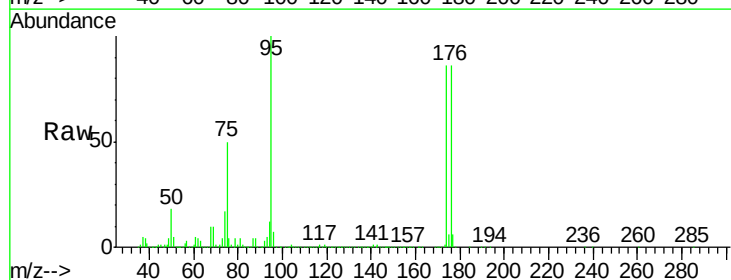
Instrument :
MSVOA_X
ClientSampleId :
PB116891TB

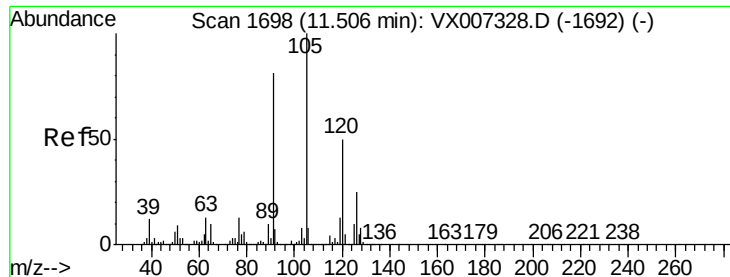
Tot Ion	43	70	55	61
Resp	20618			
Ratio	100	3.4	5.3	12.9
Lower		33.8	19.5	19.4
Upper		50.6#	29.3#	29.2#



#76
1,2,3-Trichloropropane
Concen: 23.178 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX007422.D
Acq: 07 Feb 2019 13:49

Tgt Ion	75	77
Resp	168931	
Ratio	100	1.4
Lower		23.0
Upper		69.0#





#80

1,3,5-Trimethylbenzene

Concen: 0.480 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX007422.D

Acq: 07 Feb 2019 13:49

Instrument :

MSVOA_X

ClientSampleId :

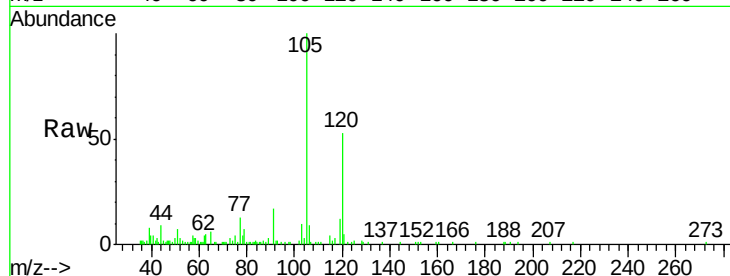
PB116891TB

Tot Ion:105 Resp: 10005

Ion Ratio Lower Upper

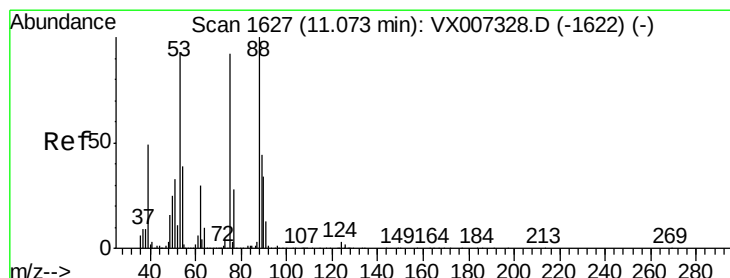
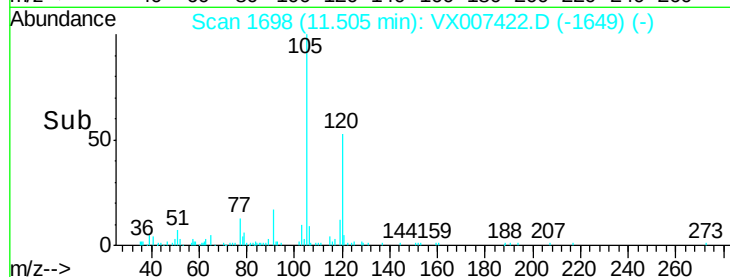
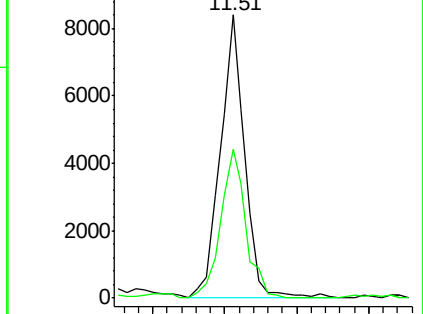
105 100

120 54.4 25.3 75.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 69.812 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007422.D

Acq: 07 Feb 2019 13:49

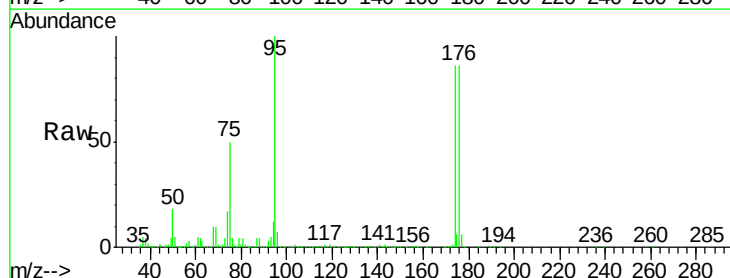
Tgt Ion: 75 Resp: 168931

Ion Ratio Lower Upper

75 100

53 0.2 81.0 121.6#

89 0.2 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

