

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020519\
 Data File : VX007369.D
 Acq On : 05 Feb 2019 11:52
 Operator : JC/SP
 Sample : PB116741TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB116741TB

Quant Time: Feb 06 00:15:20 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	538650	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	834236	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	791405	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	386285	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	291213	50.94	ug/l	0.00
Spiked Amount			Recovery	=	101.88%	
35) Dibromofluoromethane	5.51	113	261770	48.23	ug/l	0.00
Spiked Amount			Recovery	=	96.46%	
50) Toluene-d8	8.71	98	997229	49.52	ug/l	0.00
Spiked Amount			Recovery	=	99.04%	
62) 4-Bromofluorobenzene	11.13	95	358822	48.80	ug/l	0.00
Spiked Amount			Recovery	=	97.60%	

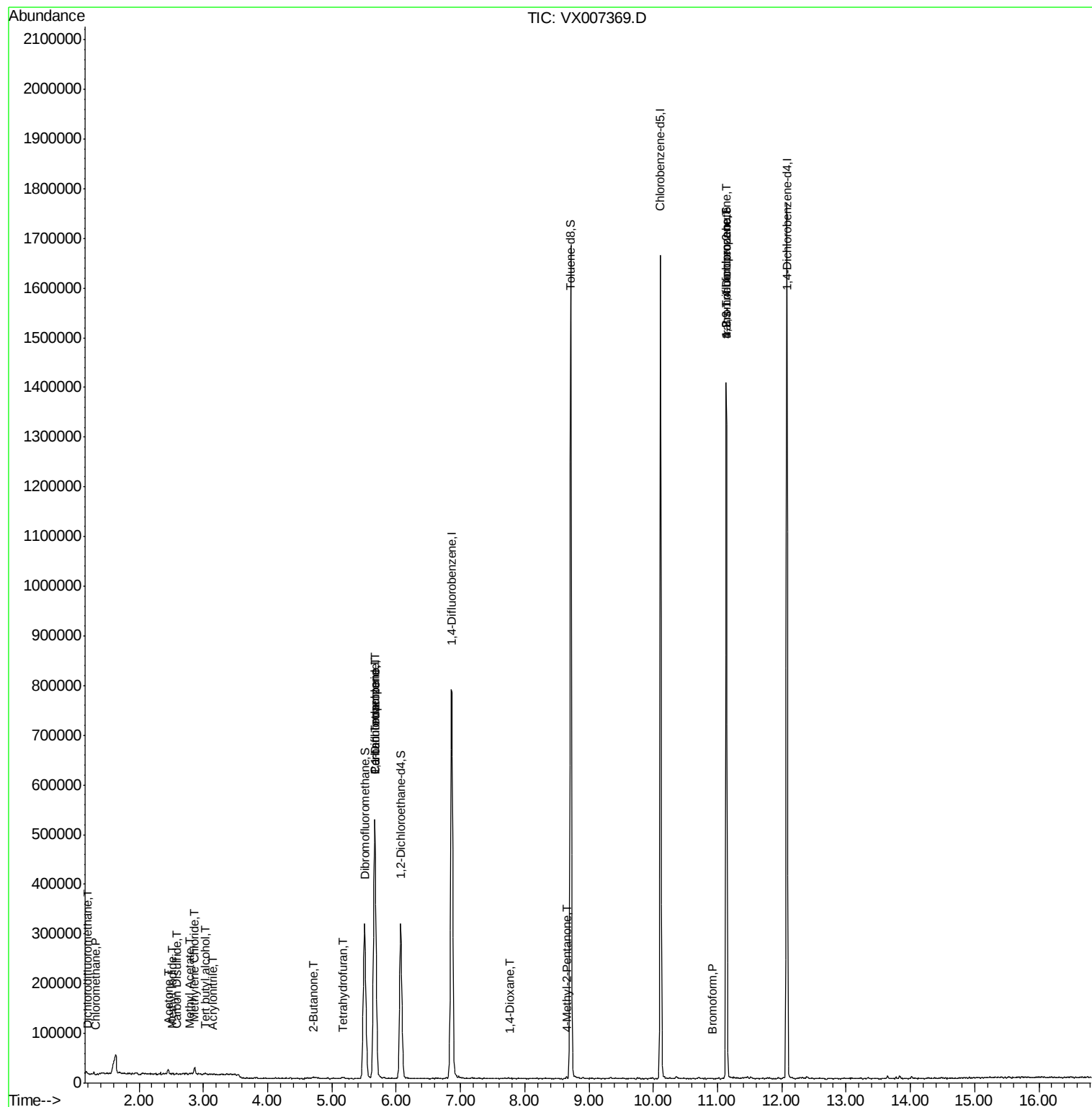
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	537	0.258	ug/l	94
3) Chloromethane	1.33	50	1291	0.213	ug/l #	1
5) Bromomethane	1.65	94	951	Below Cal	#	45
10) Methyl Iodide	2.52	142	1761	0.216	ug/l #	83
11) Tert butyl alcohol	3.03	59	1510	1.276	ug/l #	85
15) Acrylonitrile	3.15	53	651	0.222	ug/l #	64
16) Acetone	2.45	43	11231	4.288	ug/l	99
17) Carbon Disulfide	2.58	76	2961	2.332	ug/l #	87
18) Methyl Acetate	2.78	43	1956	0.876	ug/l	94
20) Methylene Chloride	2.86	84	6975	0.918	ug/l	96
25) 2-Butanone	4.71	43	5053	1.356	ug/l	94
29) Tetrahydrofuran	5.16	42	2525	1.077	ug/l #	77
36) 1,1-Dichloropropene	5.67	75	35518	4.745	ug/l #	49
38) Carbon Tetrachloride	5.67	117	48463	6.674	ug/l #	17
49) 1,4-Dioxane	7.77	88	196	8.344	ug/l #	10
51) 4-Methyl-2-Pentanone	8.65	43	2866	0.373	ug/l	97
71) Bromoform	10.93	173	91	4.046	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	171771	22.861	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	171771	68.914	ug/l #	9

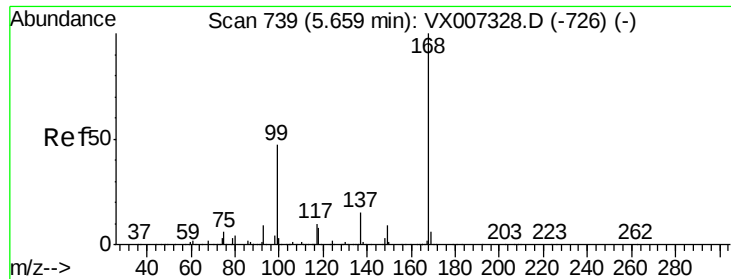
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX007369.D

Acq: 05 Feb 2019 11:52

Instrument :

MSVOA_X

ClientSampleId :

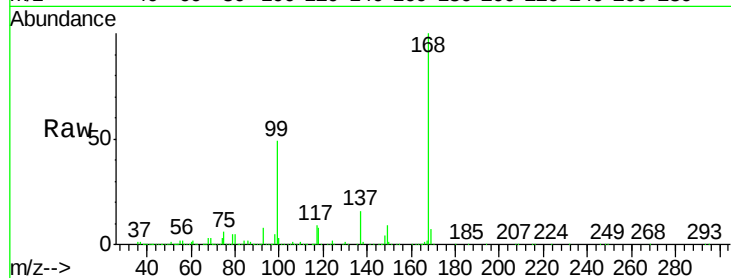
PB116741TB

Tot Ion:168 Resp: 538650

Ion Ratio Lower Upper

168 100

99 48.9 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

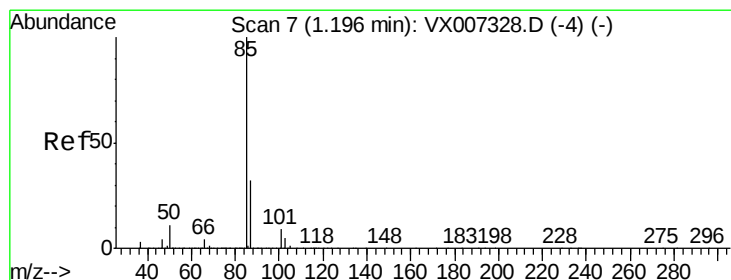
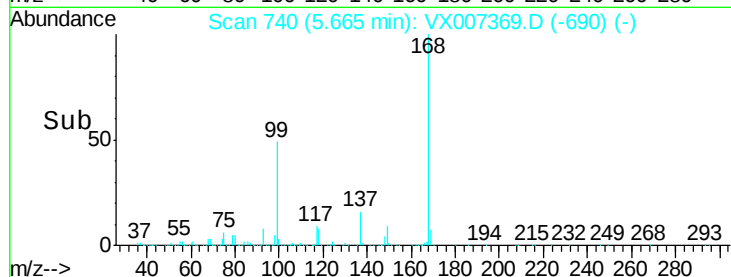
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.258 ug/l

RT: 1.21 min Scan# 9

Delta R.T. 0.01 min

Lab File: VX007369.D

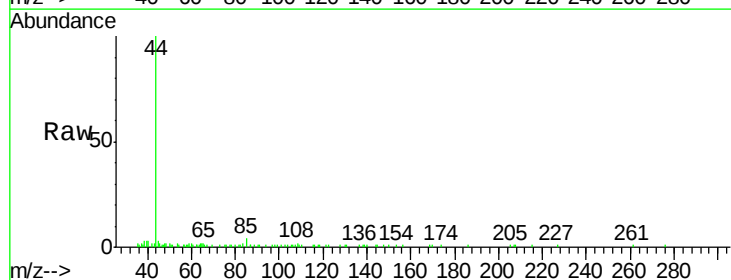
Acq: 05 Feb 2019 11:52

Tgt Ion: 85 Resp: 537

Ion Ratio Lower Upper

85 100

87 28.2 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.21

400

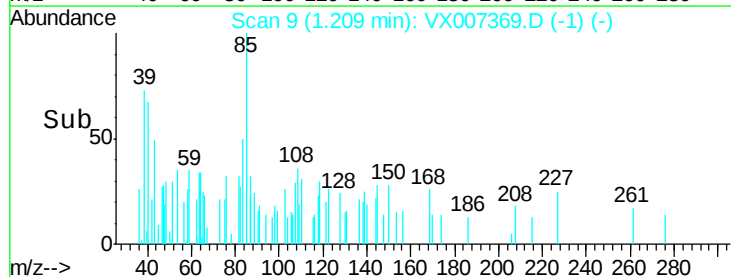
300

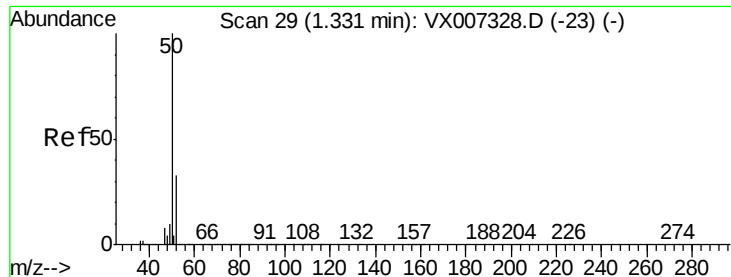
200

100

0

Time--> 1.15 1.20 1.25





#3

Chloromethane

Concen: 0.213 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX007369.D

Acq: 05 Feb 2019 11:52

Instrument :

MSVOA_X

ClientSampled :

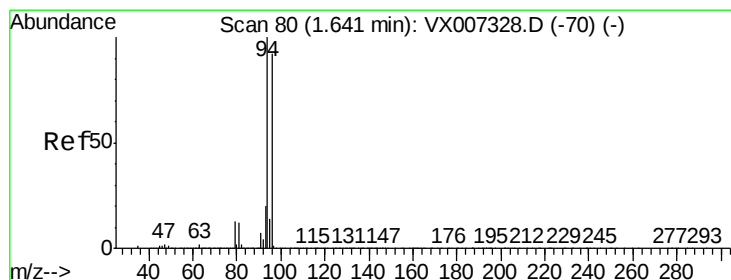
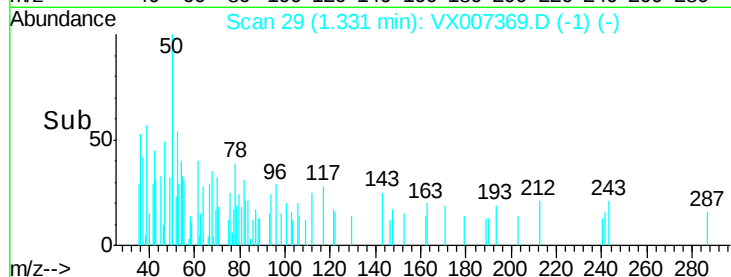
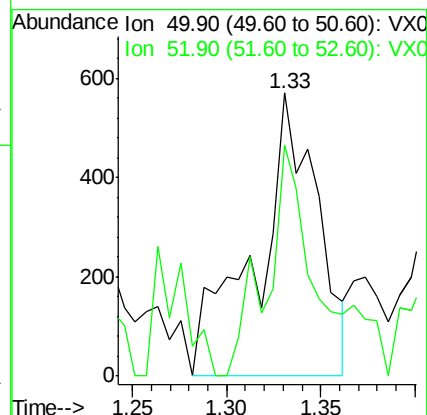
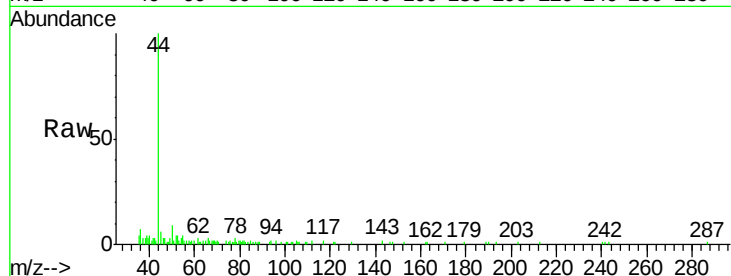
PB116741TB

Tot Ion: 50 Resp: 1291

Ion Ratio Lower Upper

50 100

52 94.6 26.1 39.1#



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX007369.D

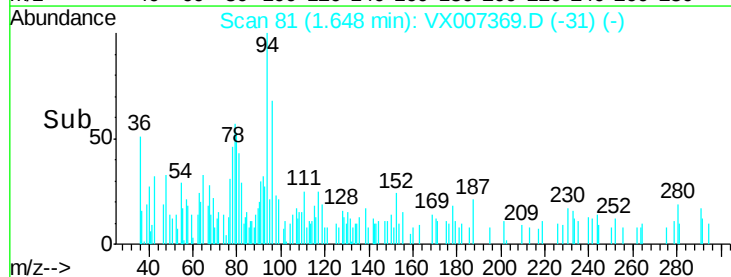
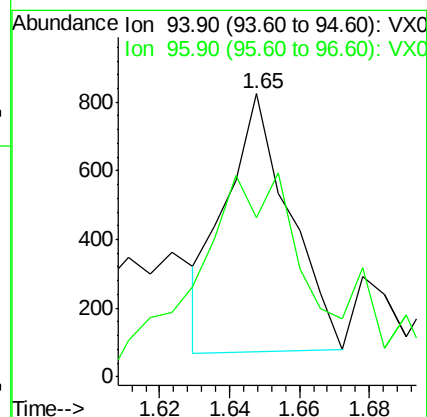
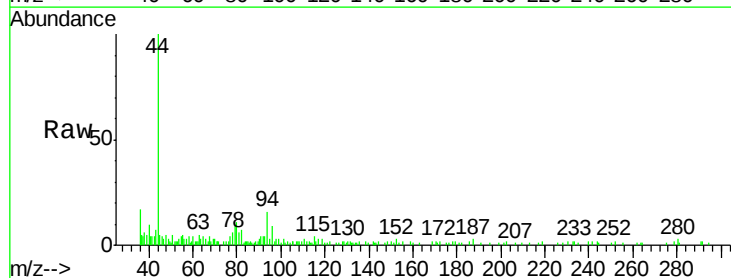
Acq: 05 Feb 2019 11:52

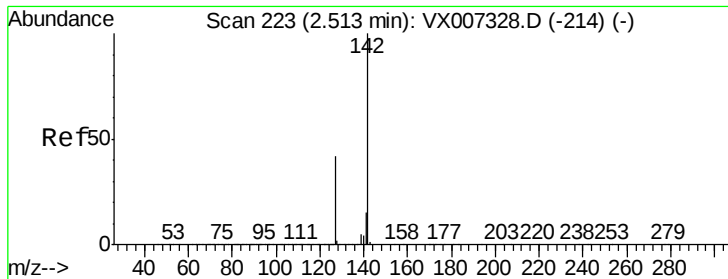
Tgt Ion: 94 Resp: 951

Ion Ratio Lower Upper

94 100

96 39.5 73.9 110.9#

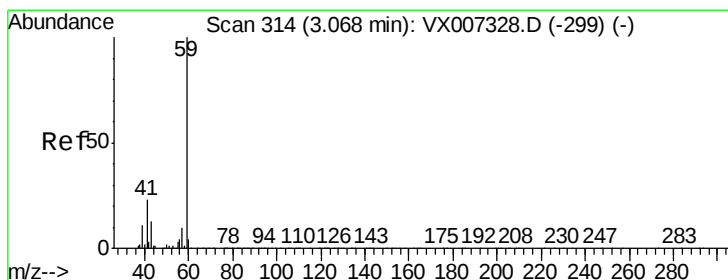
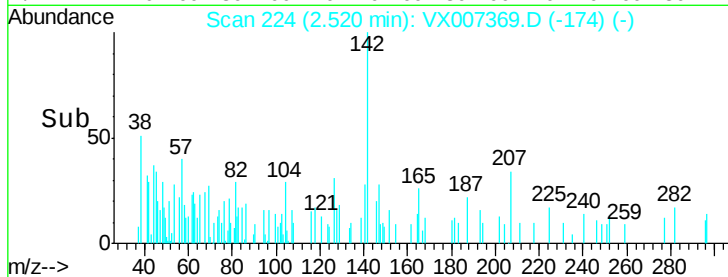
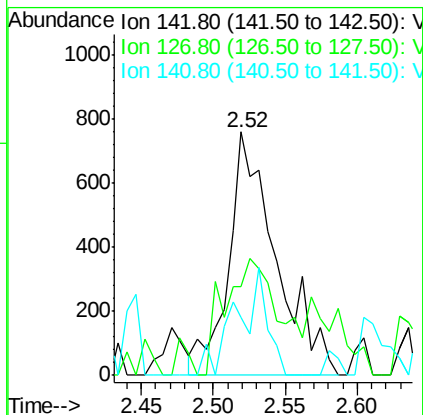
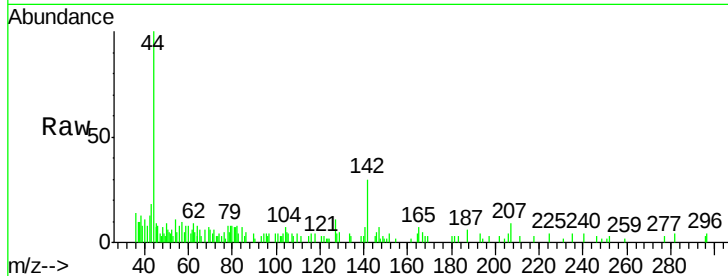




#10
Methvl Iodide
Concen: 0.216 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX007369.D
Acq: 05 Feb 2019 11:52

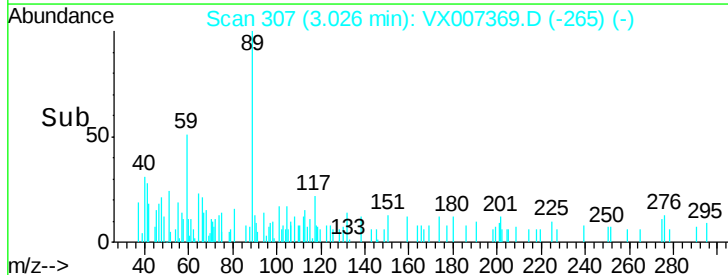
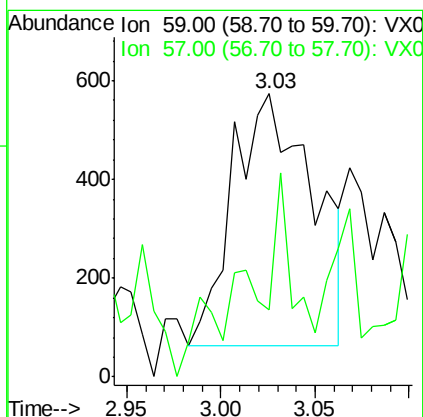
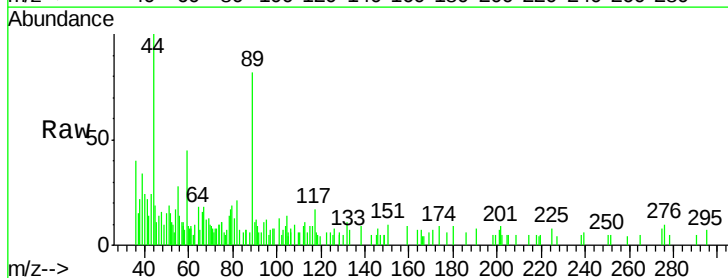
Instrument :
MSVOA_X
ClientSampled :
PB116741TB

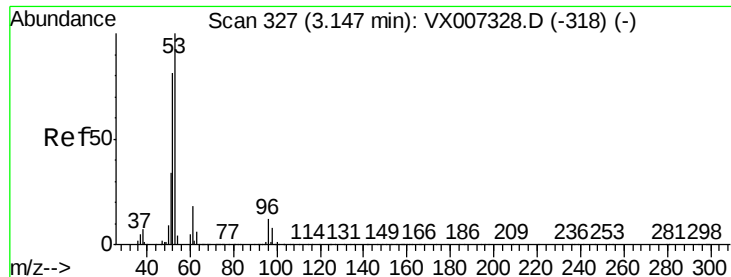
Tot Ion:142 Resp: 1761
Ion Ratio Lower Upper
142 100
127 48.7 33.7 50.5
141 28.3 11.3 16.9#



#11
Tert butyl alcohol
Concen: 1.276 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.04 min
Lab File: VX007369.D
Acq: 05 Feb 2019 11:52

Tgt Ion: 59 Resp: 1510
Ion Ratio Lower Upper
59 100
57 15.6 8.1 12.1#





#15

Acrylonitrile

Concen: 0.222 ug/l

RT: 3.15 min Scan# 327

Delta R.T. 0.00 min

Lab File: VX007369.D

Acq: 05 Feb 2019 11:52

Instrument :

MSVOA_X

ClientSampled :

PB116741TB

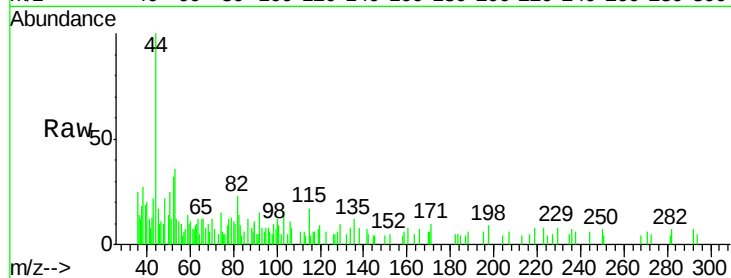
Tot Ion: 53 Resp: 651

Ion Ratio Lower Upper

53 100

52 57.6 66.4 99.6#

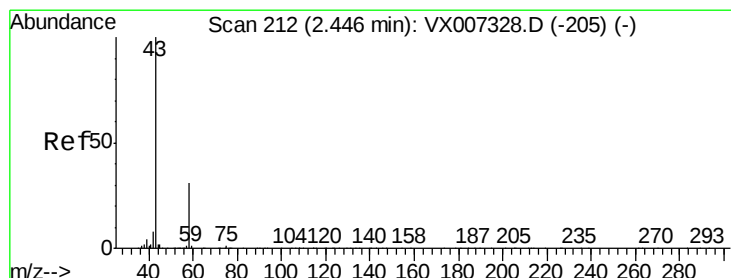
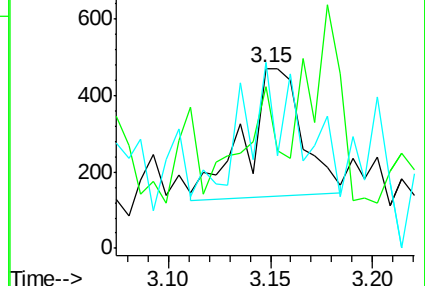
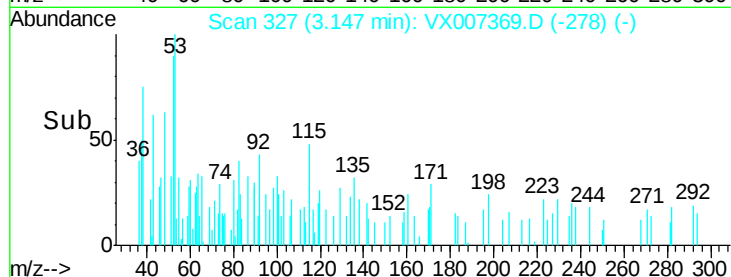
51 66.7 28.4 42.6#



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: 4.288 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX007369.D

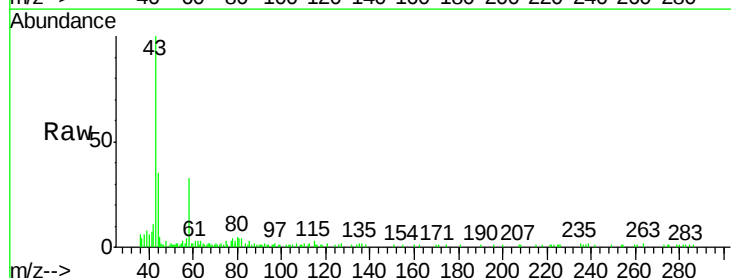
Acq: 05 Feb 2019 11:52

Tgt Ion: 43 Resp: 11231

Ion Ratio Lower Upper

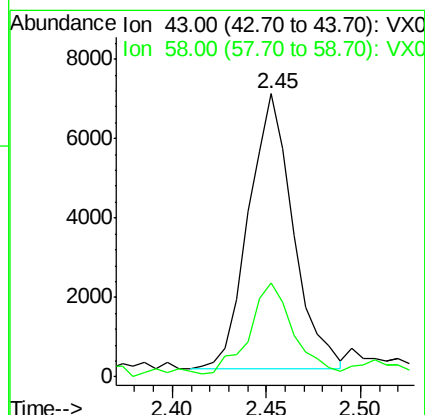
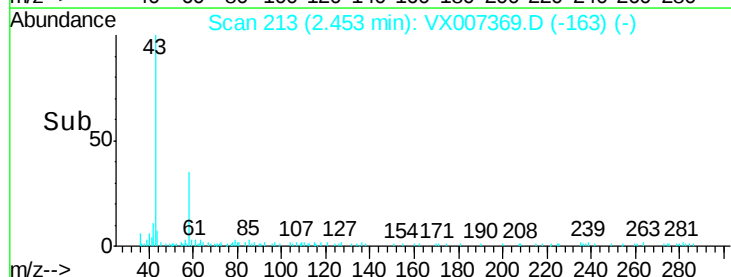
43 100

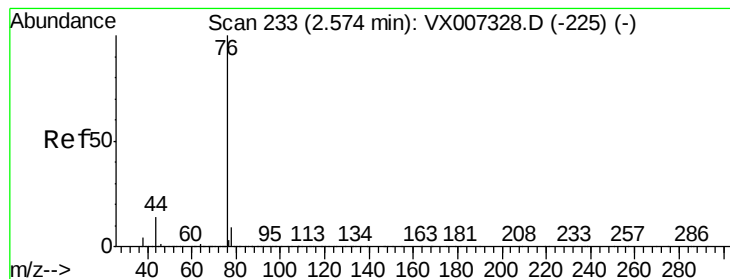
58 31.9 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 2.332 ug/l

RT: 2.58 min Scan# 234

Delta R.T. 0.01 min

Lab File: VX007369.D

Acq: 05 Feb 2019 11:52

Instrument :

MSVOA_X

ClientSampleId :

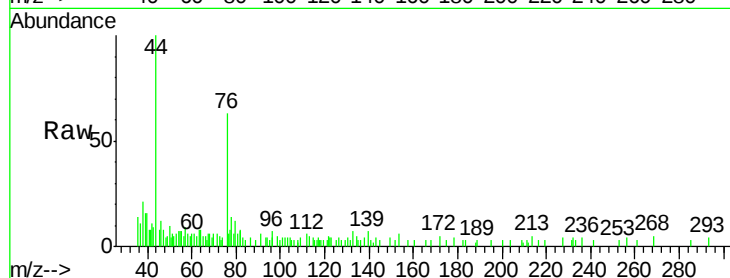
PB116741TB

Tot Ion: 76 Resp: 2961

Ion Ratio Lower Upper

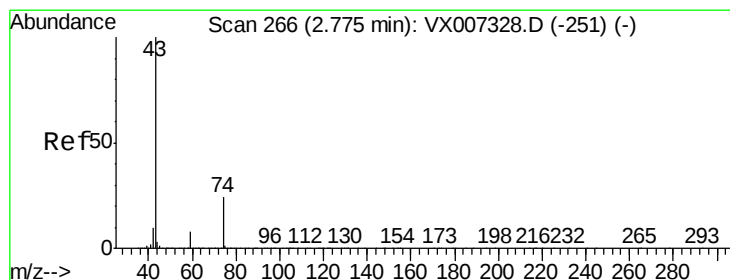
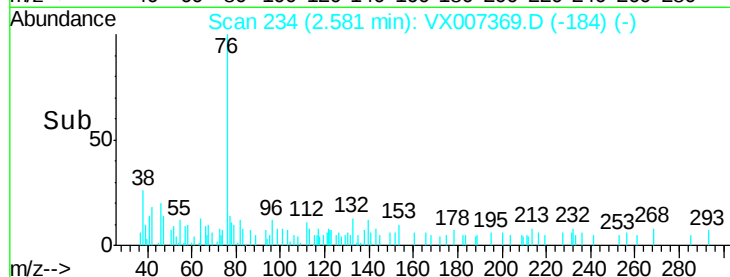
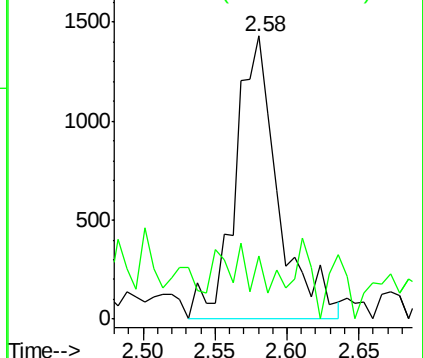
76 100

78 4.1 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: 0.876 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX007369.D

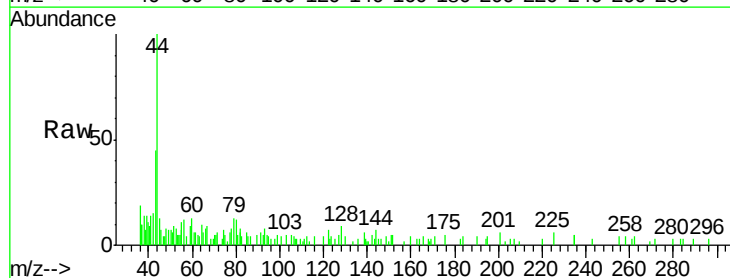
Acq: 05 Feb 2019 11:52

Tgt Ion: 43 Resp: 1956

Ion Ratio Lower Upper

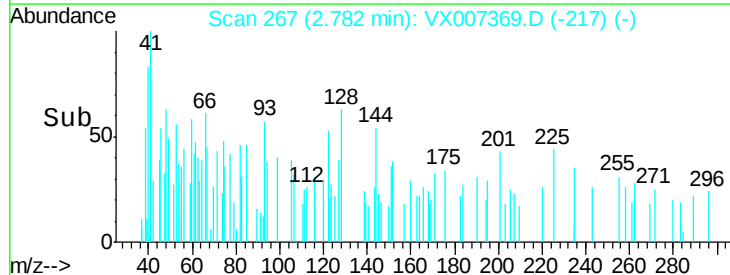
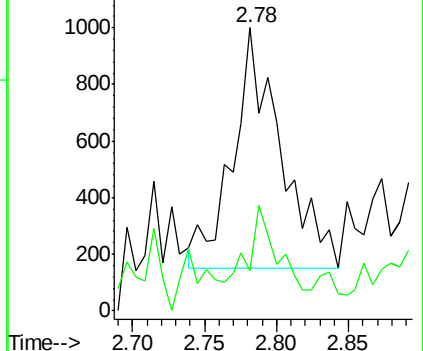
43 100

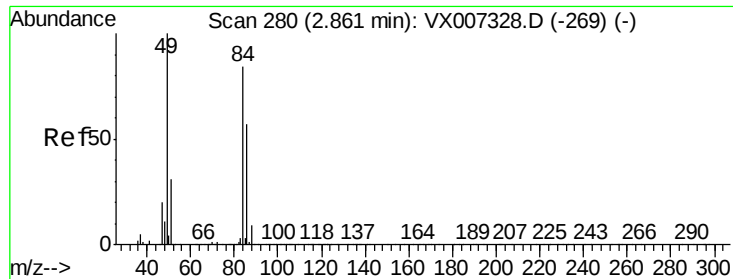
74 27.3 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

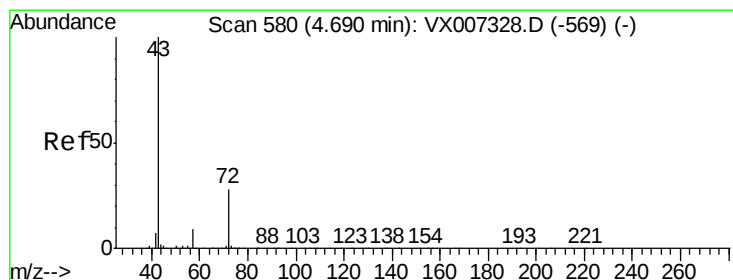
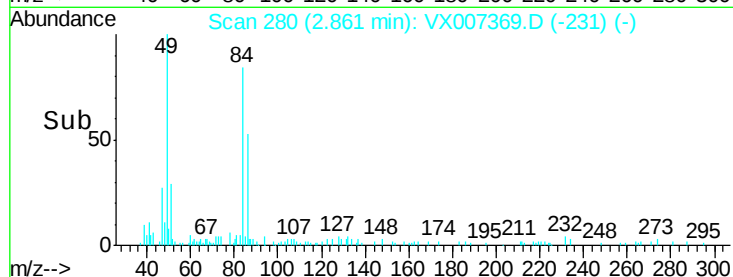
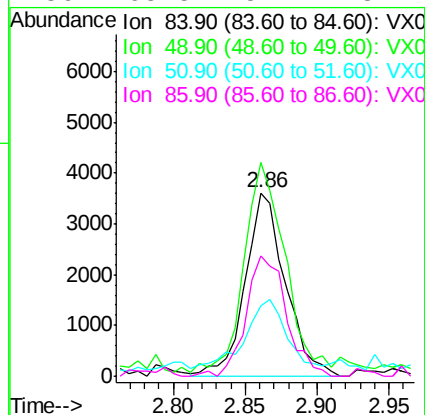
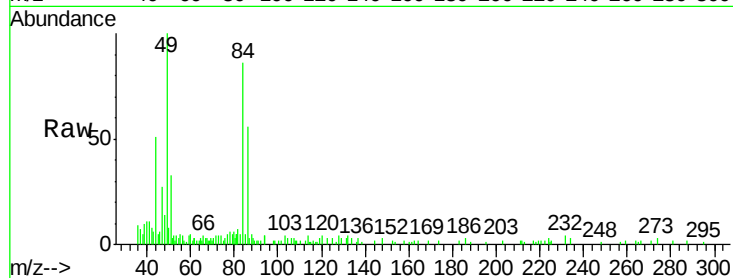




#20
Methvlene Chloride
Concen: 0.918 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007369.D
Acq: 05 Feb 2019 11:52

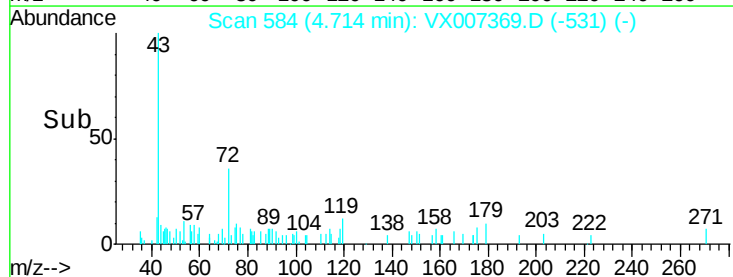
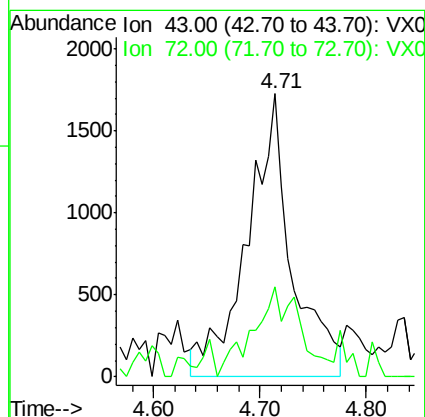
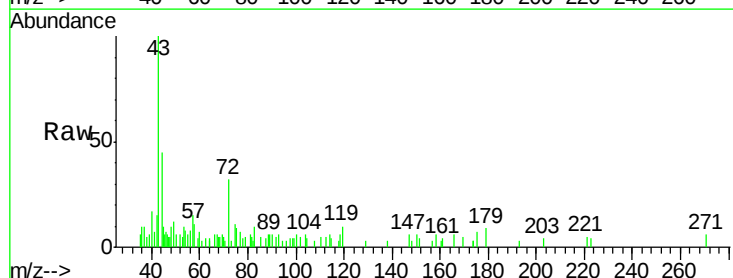
Instrument :
MSVOA_X
ClientSampleId :
PB116741TB

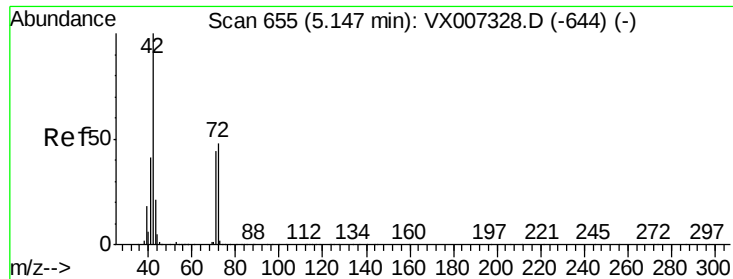
Tot Ion:	84	Resp:	6975
Ion	Ratio	Lower	Upper
84	100		
49	114.3	94.8	142.2
51	33.0	29.8	44.8
86	65.5	54.1	81.1



#25
2-Butanone
Concen: 1.356 ug/l
RT: 4.71 min Scan# 584
Delta R.T. 0.02 min
Lab File: VX007369.D
Acq: 05 Feb 2019 11:52

Tgt Ion:	43	Resp:	5053
Ion	Ratio	Lower	Upper
43	100		
72	31.0	22.2	33.2

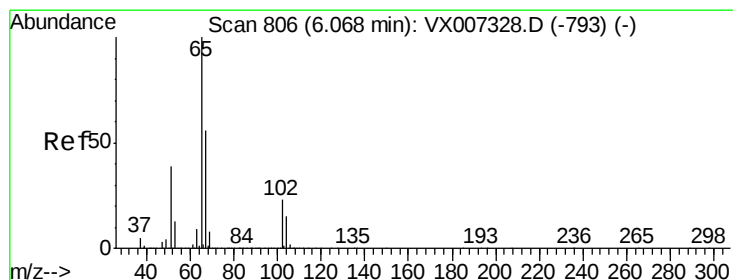
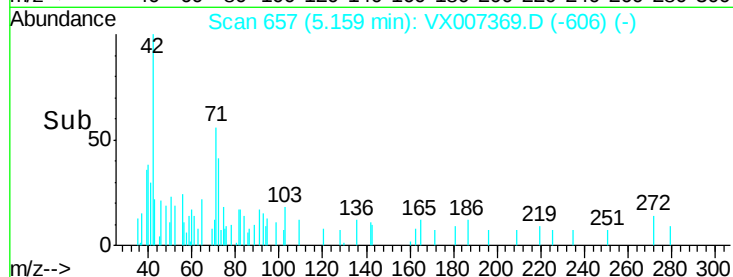
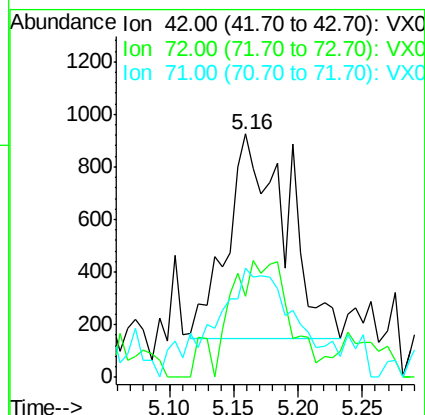
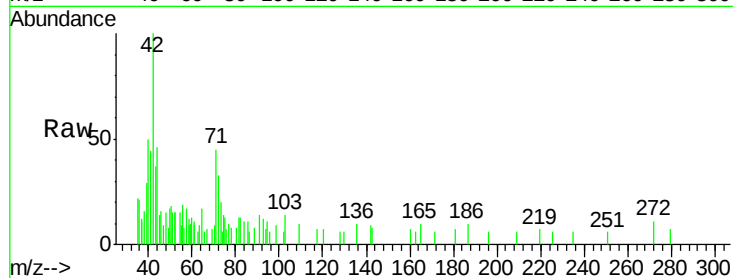




#29
Tetrahydrofuran
Concen: 1.077 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX007369.D
Acq: 05 Feb 2019 11:52

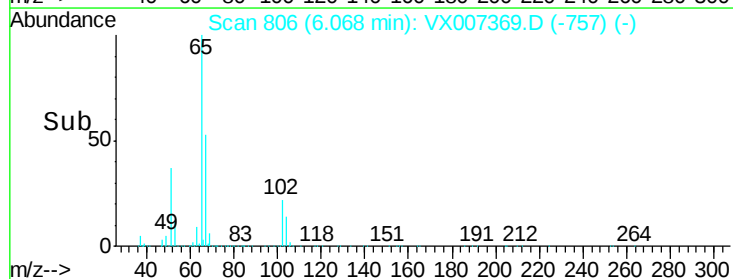
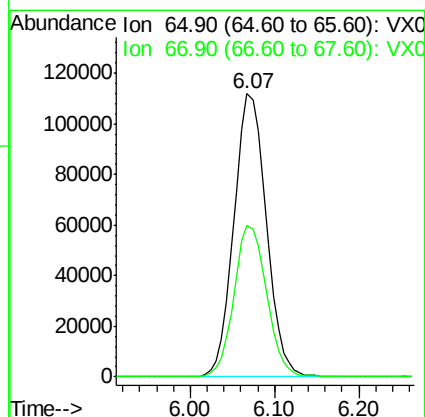
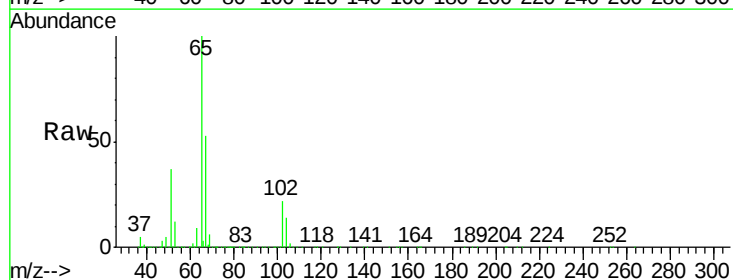
Instrument :
MSVOA_X
ClientSampled :
PB116741TB

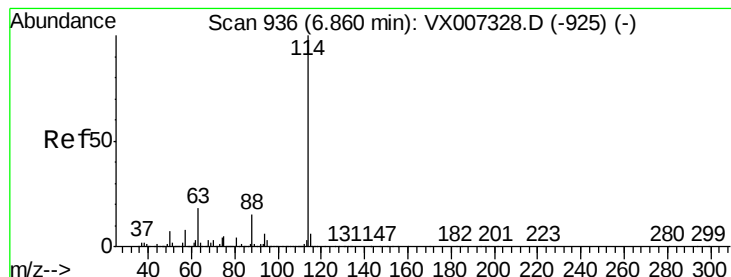
Tot Ion: 42 Resp: 2525
Ion Ratio Lower Upper
42 100
72 55.9 37.6 56.4
71 65.3 34.6 51.8#



#33
1,2-Dichloroethane-d4
Concen: 50.935 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX007369.D
Acq: 05 Feb 2019 11:52

Tgt Ion: 65 Resp: 291213
Ion Ratio Lower Upper
65 100
67 53.6 0.0 108.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.87 min Scan# 937

Delta R.T. 0.01 min

Lab File: VX007369.D

Acq: 05 Feb 2019 11:52

Instrument :

MSVOA_X

ClientSampleId :

PB116741TB

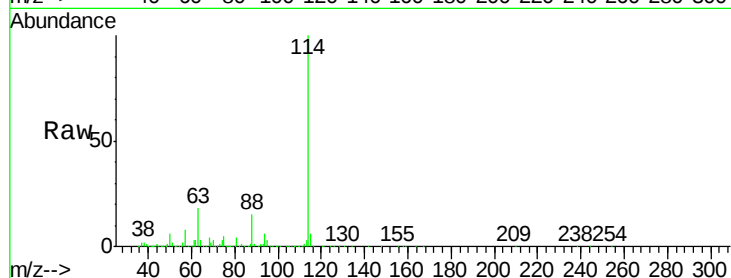
Tot Ion:114 Resp: 834236

Ion Ratio Lower Upper

114 100

63 18.1 0.0 35.6

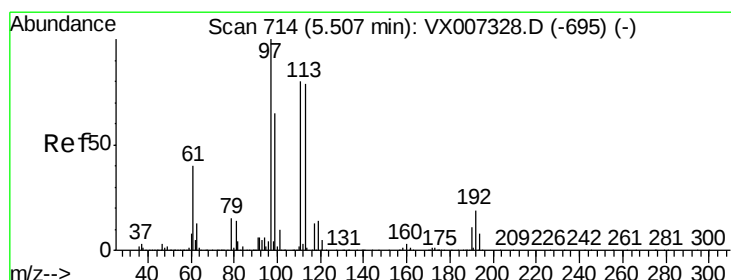
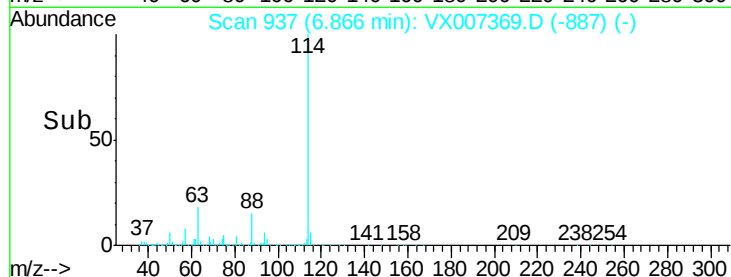
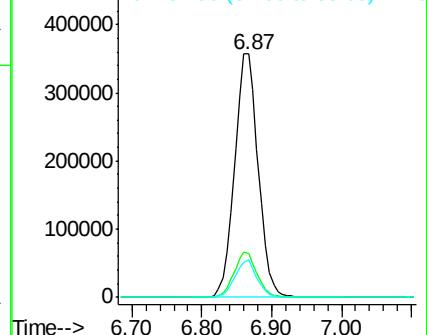
88 15.3 0.0 29.6



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: 48.225 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.00 min

Lab File: VX007369.D

Acq: 05 Feb 2019 11:52

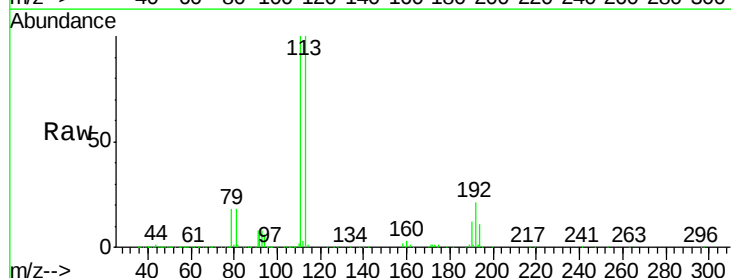
Tgt Ion:113 Resp: 261770

Ion Ratio Lower Upper

113 100

111 103.6 81.8 122.8

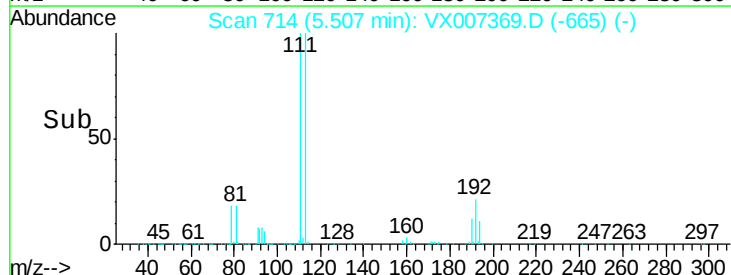
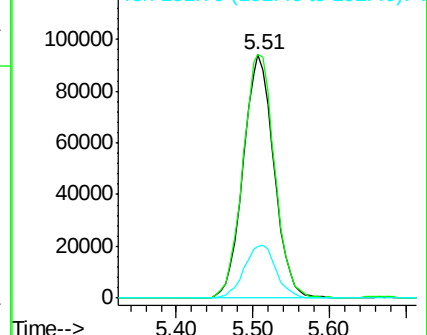
192 22.7 18.5 27.7

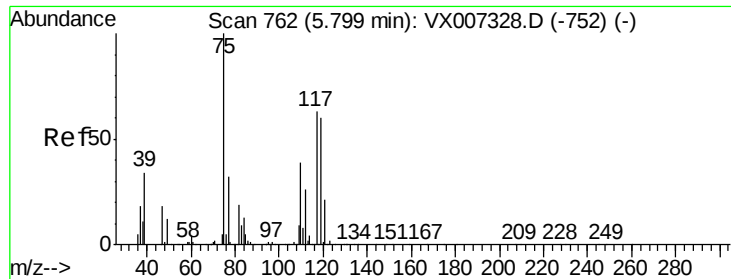


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

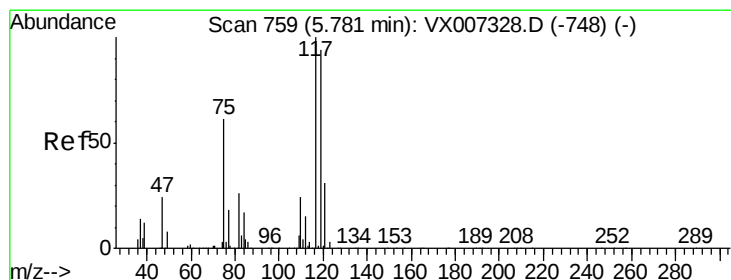
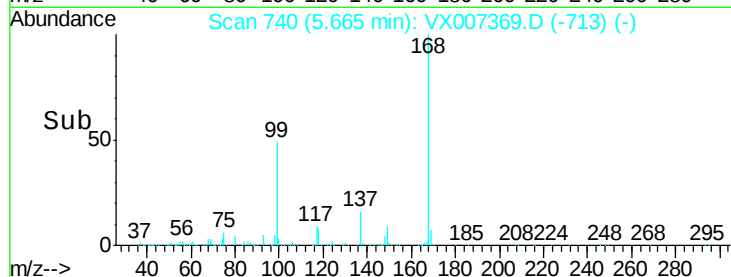
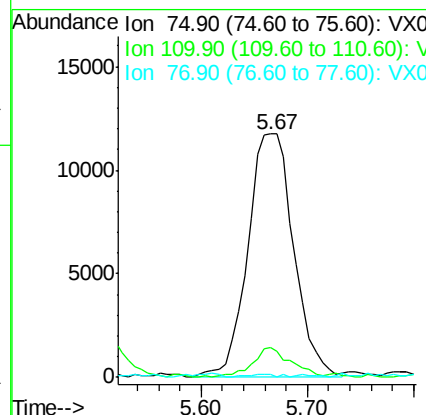
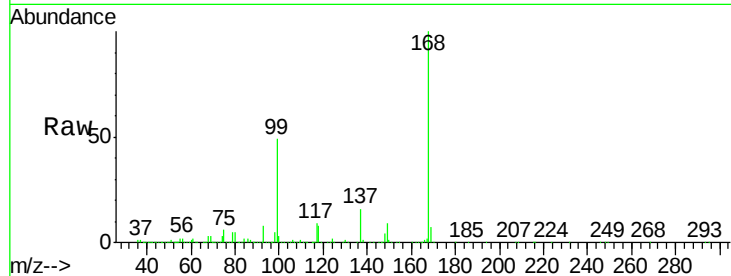




#36
 1,1-Dichloropropene
 Concen: 4.745 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX007369.D
 Acq: 05 Feb 2019 11:52

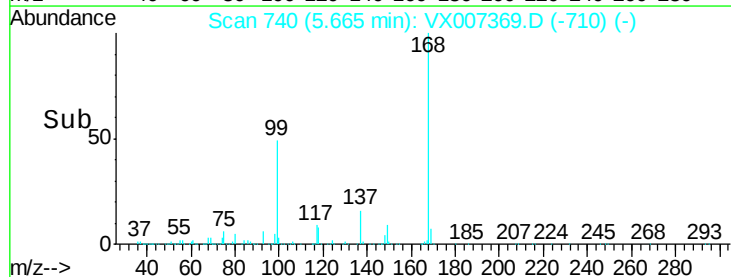
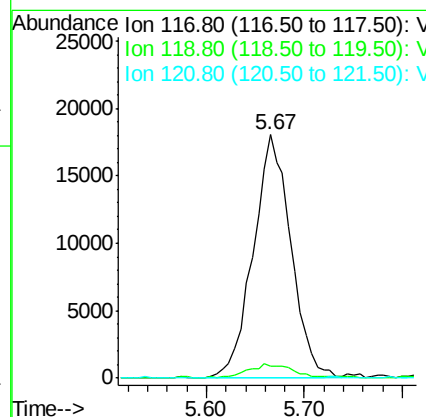
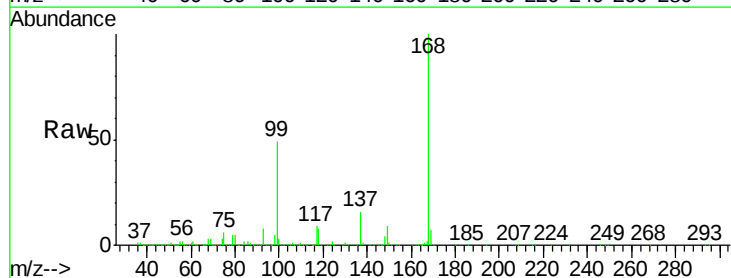
Instrument :
 MSVOA_X
 ClientSampleId :
 PB116741TB

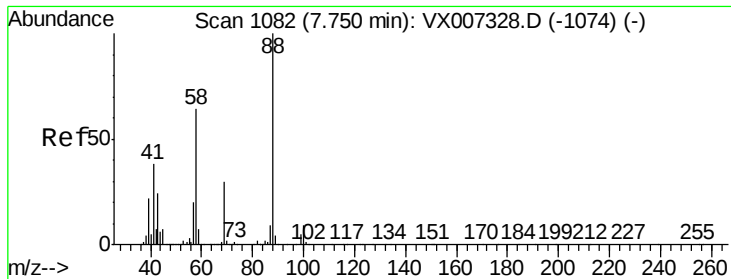
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.4	20.0	59.9#
77	0.7	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 6.674 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX007369.D
 Acq: 05 Feb 2019 11:52

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	75.3	112.9#
121	0.0	25.0	37.4#

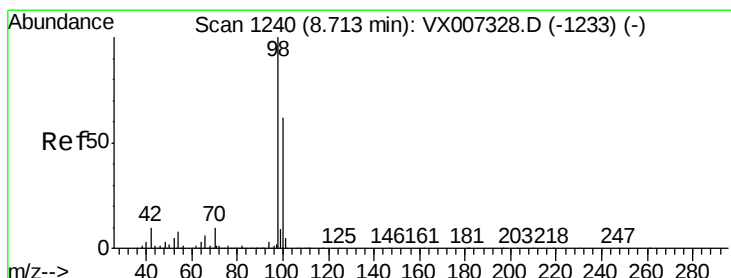
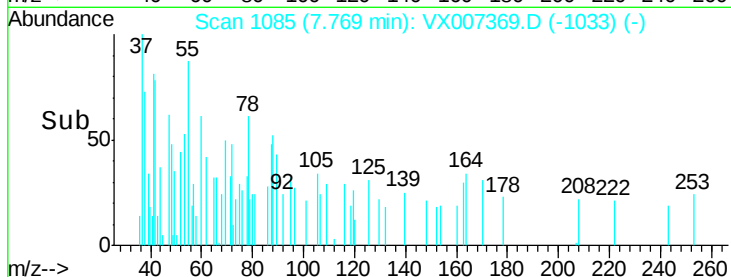
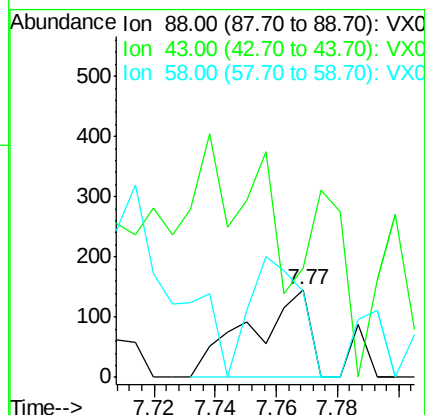
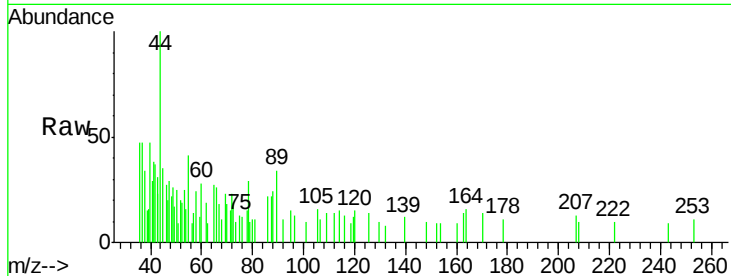




#49
 1,4-Dioxane
 Concen: 8.344 ug/l
 RT: 7.77 min Scan# 1085
 Delta R.T. 0.02 min
 Lab File: VX007369.D
 Acq: 05 Feb 2019 11:52

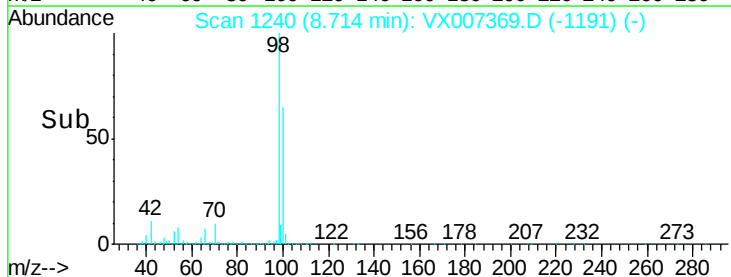
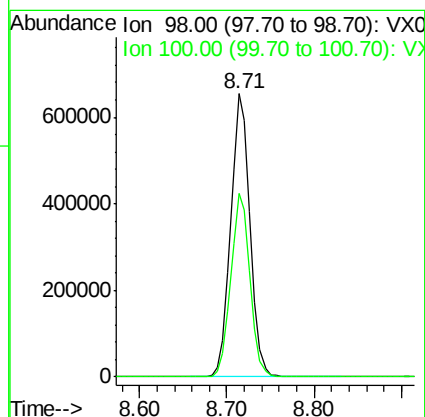
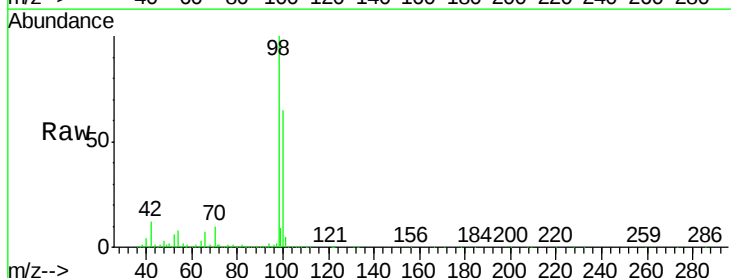
Instrument :
 MSVOA_X
 ClientSampled :
 PB116741TB

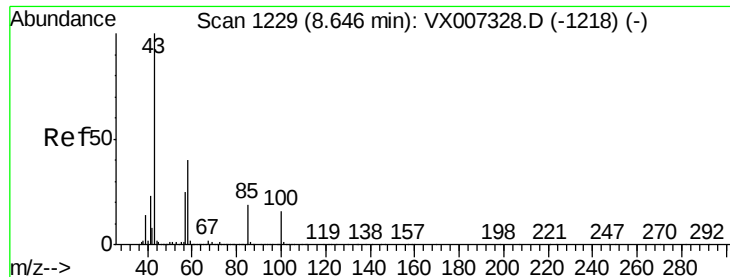
Tot Ion: 88 Resp: 196
 Ion Ratio Lower Upper
 88 100
 43 109.2 24.2 36.4#
 58 118.4 53.0 79.4#



#50
 Toluene-d8
 Concen: 49.517 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VX007369.D
 Acq: 05 Feb 2019 11:52

Tgt Ion: 98 Resp: 997229
 Ion Ratio Lower Upper
 98 100
 100 64.4 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 0.373 ug/l

RT: 8.65 min Scan# 1230

Delta R.T. 0.01 min

Lab File: VX007369.D

Acq: 05 Feb 2019 11:52

Instrument :

MSVOA_X

ClientSampleId :

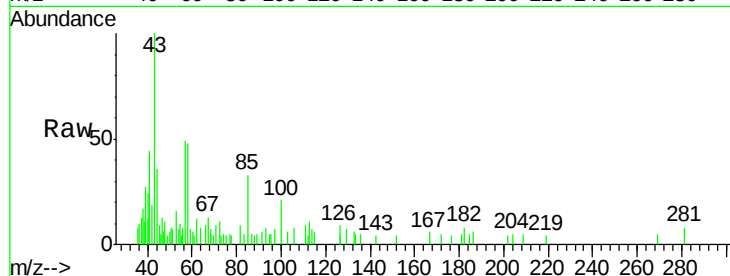
PB116741TB

Tot Ion: 43 Resp: 2866

Ion Ratio Lower Upper

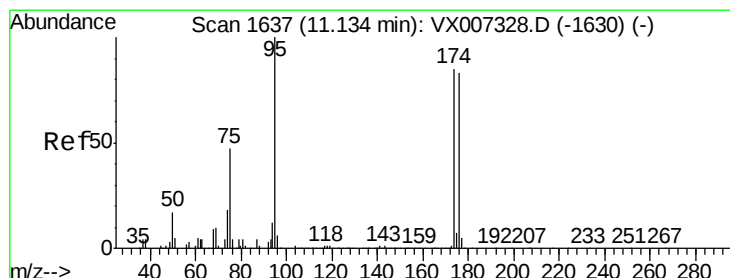
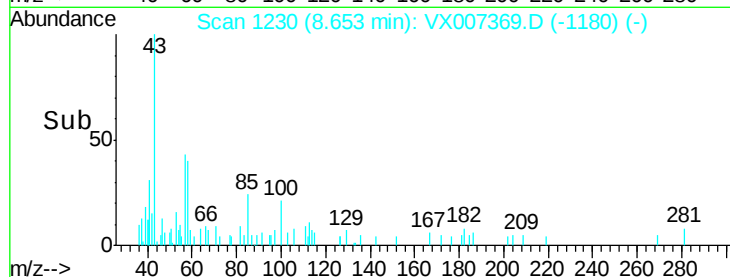
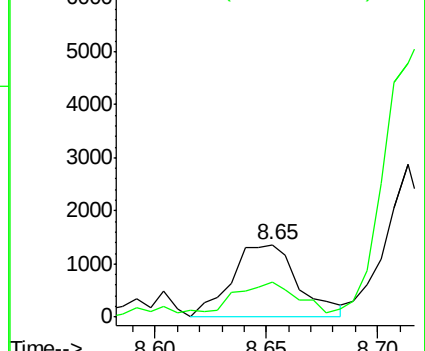
43 100

58 41.1 31.2 46.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 48.801 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007369.D

Acq: 05 Feb 2019 11:52

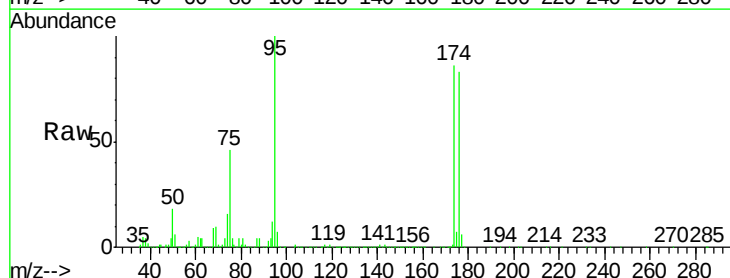
Tgt Ion: 95 Resp: 358822

Ion Ratio Lower Upper

95 100

174 93.0 0.0 189.2

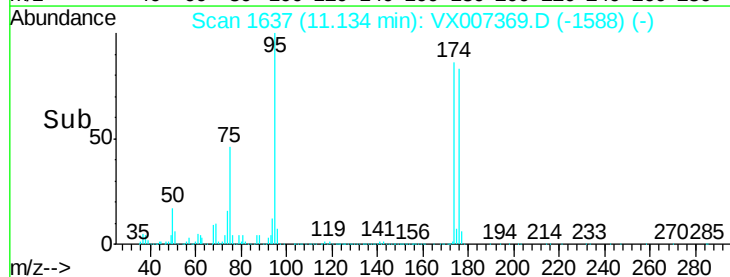
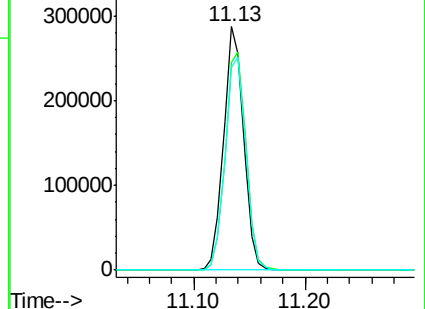
176 90.7 0.0 186.2

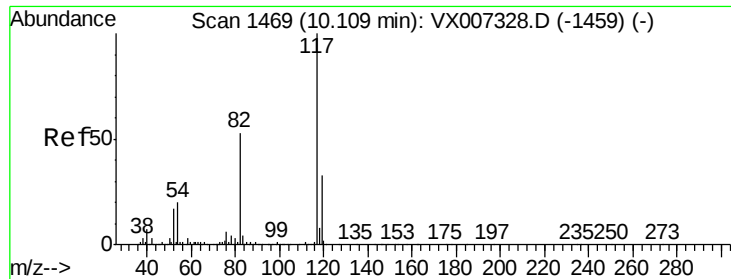


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

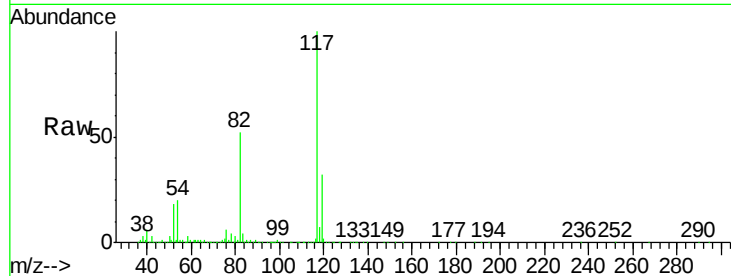




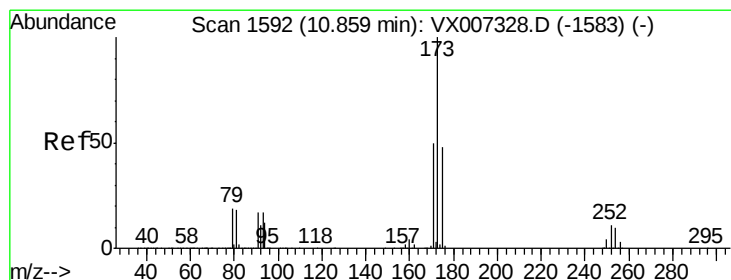
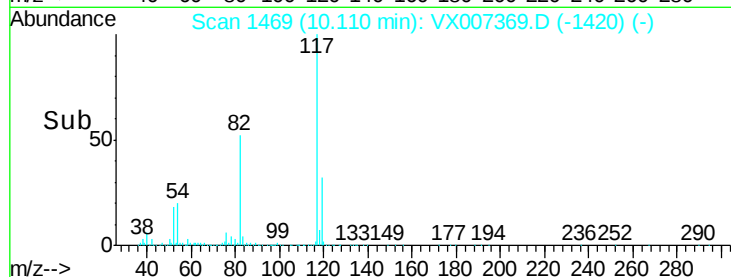
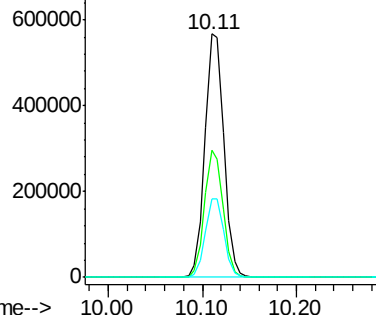
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX007369.D
Acq: 05 Feb 2019 11:52

Instrument :
MSVOA_X
ClientSampleId :
PB116741TB

Tot Ion:117 Resp: 791405
Ion Ratio Lower Upper
117 100
82 52.1 42.1 63.1
119 32.0 26.5 39.7

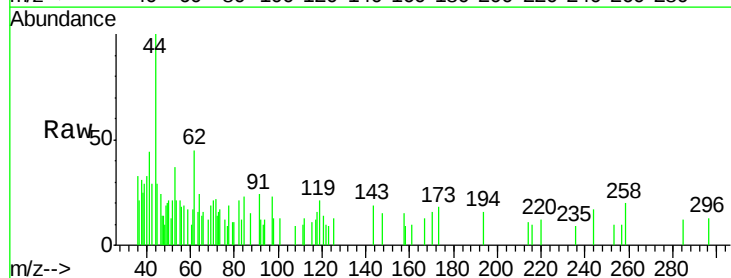


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

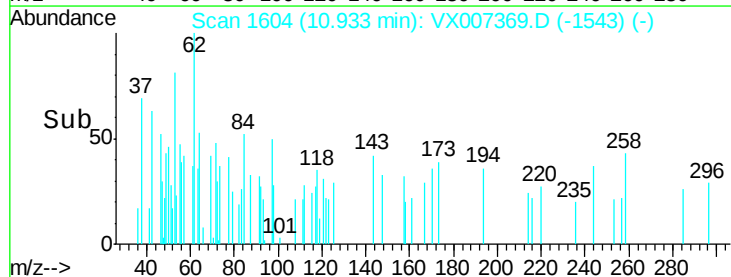
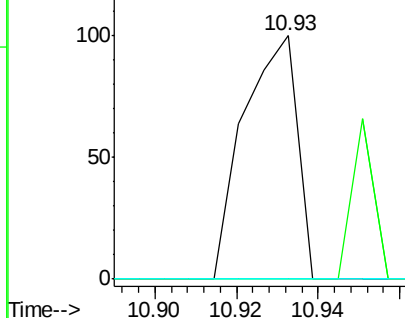


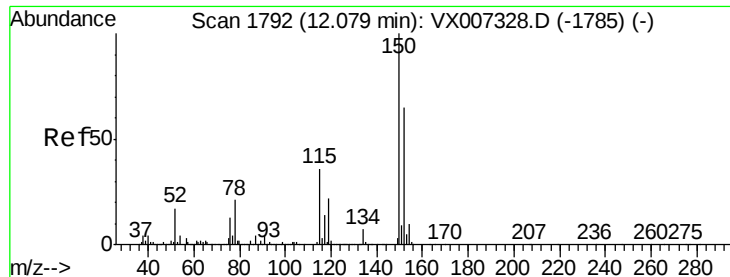
#71
Bromoform
Concen: 4.046 ug/l
RT: 10.93 min Scan# 1604
Delta R.T. 0.07 min
Lab File: VX007369.D
Acq: 05 Feb 2019 11:52

Tgt Ion:173 Resp: 91
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



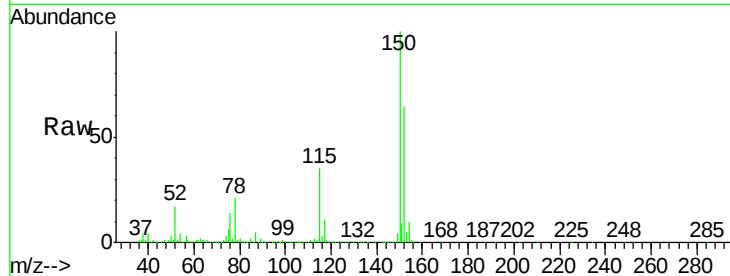


#72

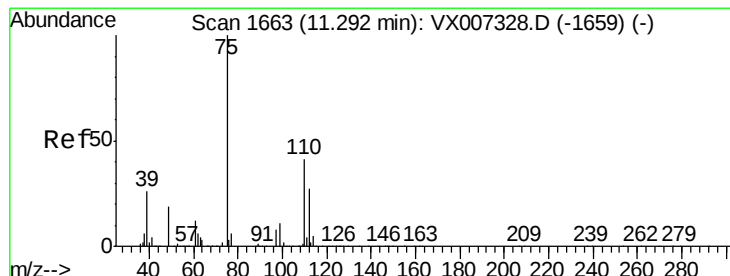
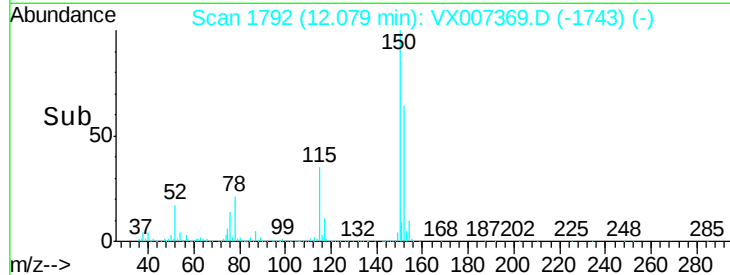
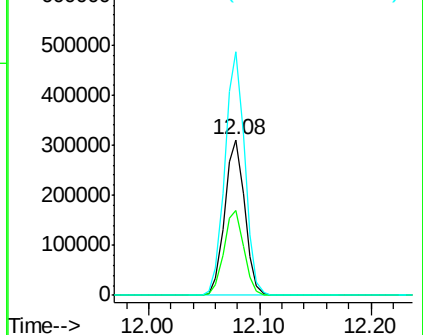
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX007369.D
Acq: 05 Feb 2019 11:52

Instrument :
MSVOA_X
ClientSampled :
PB116741TB

Tot Ion:152 Resp: 386285
Ion Ratio Lower Upper
152 100
115 54.5 38.0 114.0
150 155.7 0.0 346.4



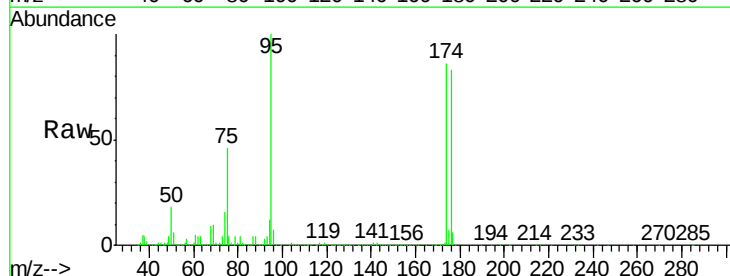
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



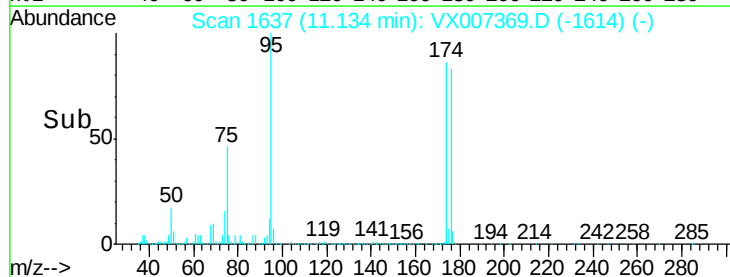
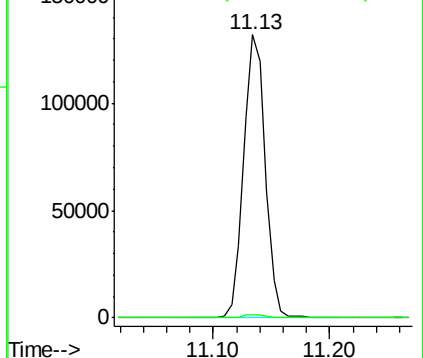
#76

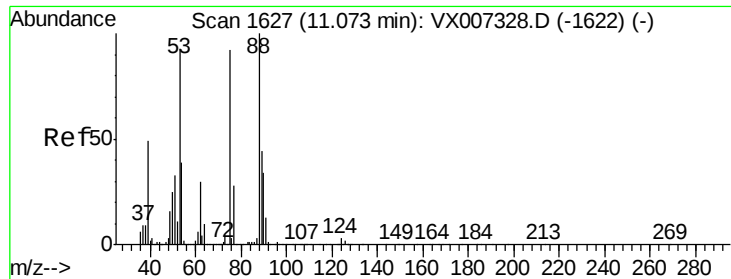
1,2,3-Trichloropropane
Concen: 22.861 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX007369.D
Acq: 05 Feb 2019 11:52

Tgt Ion: 75 Resp: 171771
Ion Ratio Lower Upper
75 100
77 1.2 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: 68.914 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007369.D

Acq: 05 Feb 2019 11:52

Instrument :

MSVOA_X

ClientSampleId :

PB116741TB

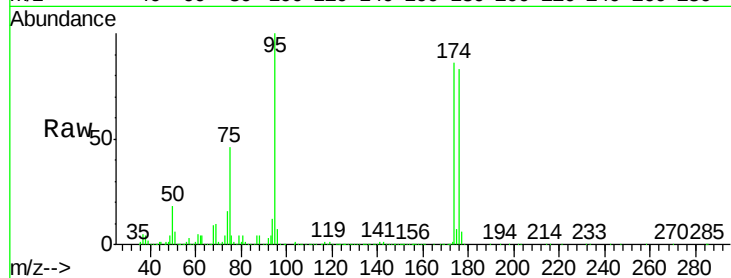
Tot Ion: 75 Resp: 171771

Ion Ratio Lower Upper

75 100

53 0.2 81.0 121.6#

89 0.0 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

