

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX031518\
 Data File : VX000328.D
 Acq On : 15 Mar 2018 15:03
 Operator : JC/MD
 Sample : J1886-01DL 50X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 13118DL

Quant Time: Mar 16 02:59:50 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X031418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 15 03:39:21 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	97130	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	171042	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	167181	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	100386	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.08	65	64939	48.33	ug/l	0.00
Spiked Amount			Recovery	=	96.66%	
35) Dibromofluoromethane	5.52	113	49743	46.09	ug/l	0.00
Spiked Amount			Recovery	=	92.18%	
50) Toluene-d8	8.73	98	215184	47.80	ug/l	0.00
Spiked Amount			Recovery	=	95.60%	
62) 4-Bromofluorobenzene	11.15	95	84531	46.82	ug/l	0.00
Spiked Amount			Recovery	=	93.64%	

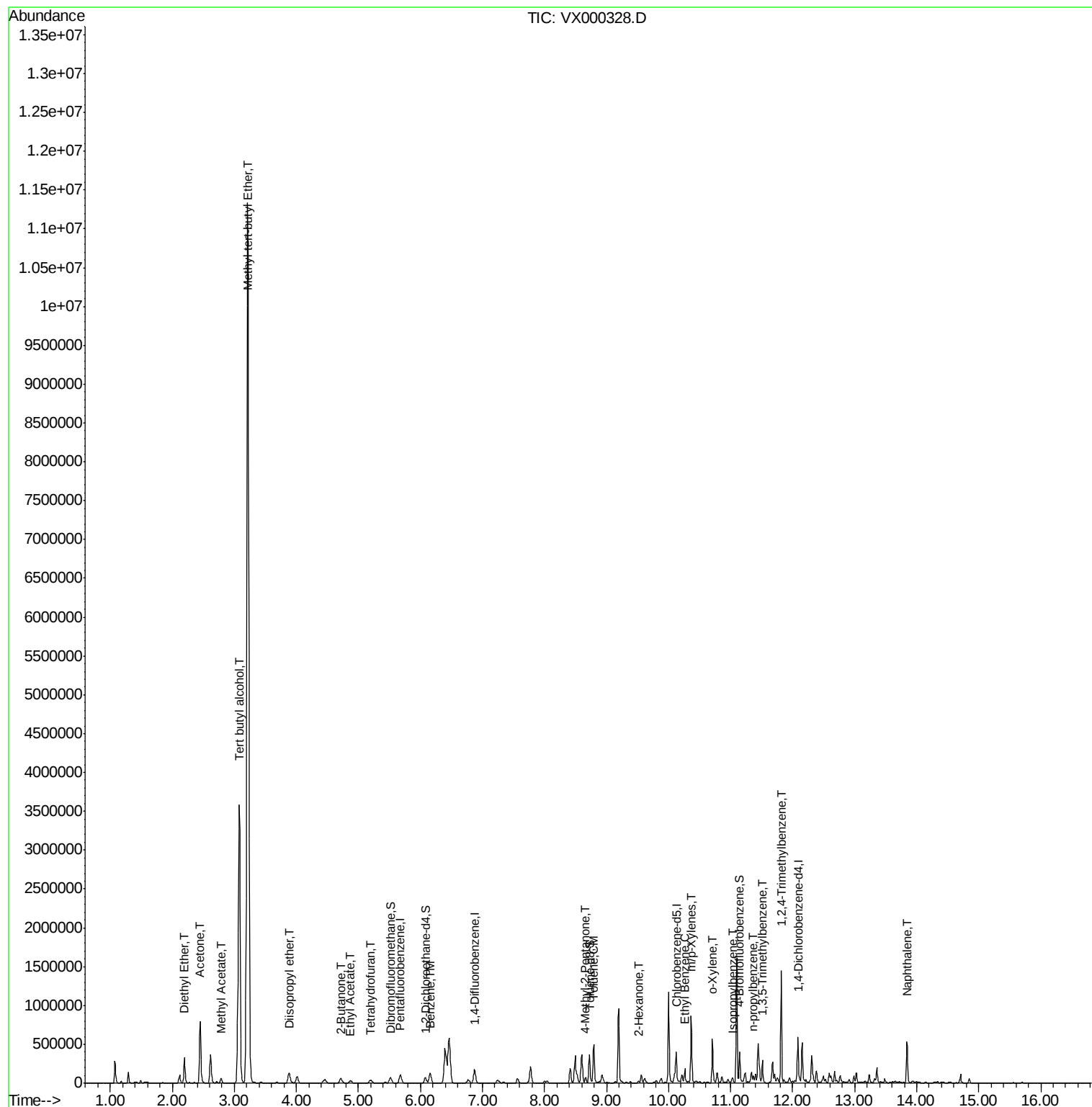
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.20	74	115556	156.46	ug/l	97
11) Tert butyl alcohol	3.08	59	4507208	10367.02	ug/l	100
16) Acetone	2.45	43	848189	945.39	ug/l	98
18) Methyl Acetate	2.78	43	74612	37.16	ug/l	98
19) Methyl tert-butyl Ether	3.21	73	12022487	3220.87	ug/l	99
22) Diisopropyl ether	3.88	45	135547	43.08	ug/l	91
25) 2-Butanone	4.71	43	105617	98.49	ug/l	97
29) Tetrahydrofuran	5.20	42	5793	8.39	ug/l #	91
37) Ethyl Acetate	4.87	43	53723	26.01	ug/l	99
40) Benzene	6.16	78	148227	33.62	ug/l	97
51) 4-Methyl-2-Pentanone	8.66	43	36102	15.59	ug/l	93
52) Toluene	8.79	92	178175	57.53	ug/l	100
59) 2-Hexanone	9.51	43	12976	6.65	ug/l	84
67) Ethyl Benzene	10.26	91	110113	18.97	ug/l	96
68) m/p-Xylenes	10.37	106	206049	91.12	ug/l	97
69) o-Xylene	10.71	106	119530	54.41	ug/l	98
73) Isopropylbenzene	11.03	105	23644	3.91	ug/l	98
78) n-propylbenzene	11.37	91	49364	6.77	ug/l	98
80) 1,3,5-Trimethylbenzene	11.51	105	120120	23.32	ug/l	98
84) 1,2,4-Trimethylbenzene	11.82	105	601918	113.67	ug/l	99
95) Naphthalene	13.84	128	321200	42.60	ug/l	100

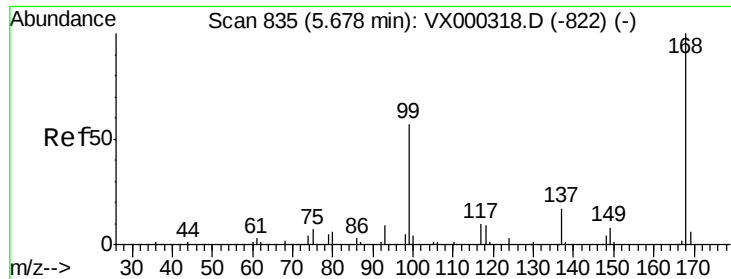
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Mar 15 03:39:21 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.01 min

Lab File: VX000328.D

Acq: 15 Mar 2018 15:03

Instrument :

MSVOA_X

ClientSampleId :

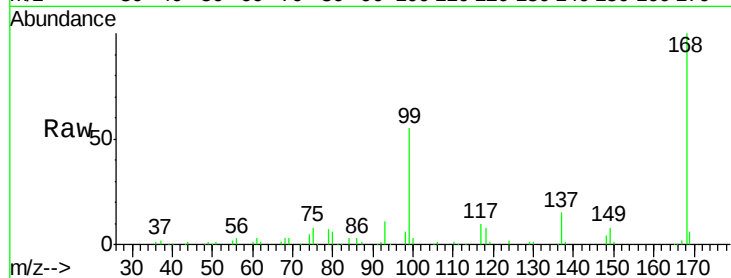
13118DL

Tot Ion:168 Resp: 97130

Ion Ratio Lower Upper

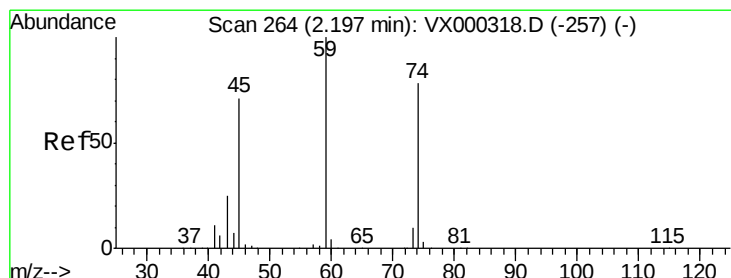
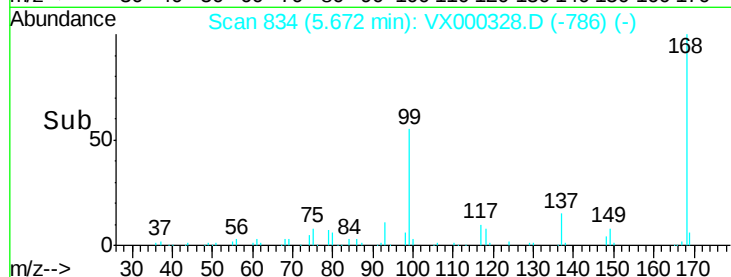
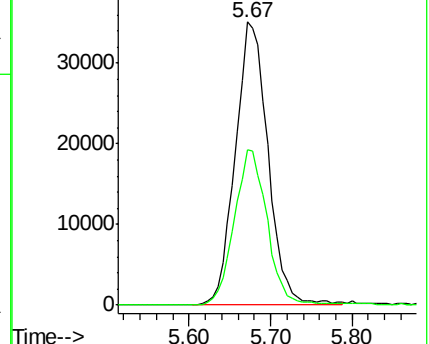
168 100

99 55.0 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#8

Diethyl Ether

Concen: 156.46 ug/l

RT: 2.20 min Scan# 264

Delta R.T. 0.00 min

Lab File: VX000328.D

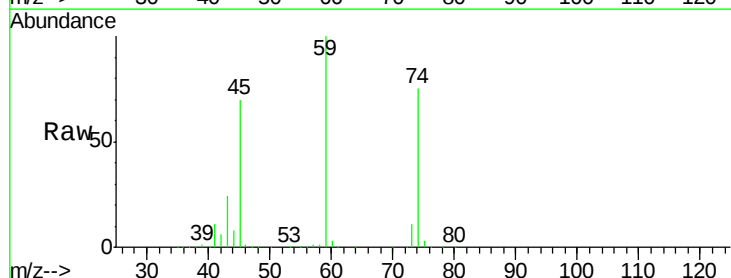
Acq: 15 Mar 2018 15:03

Tgt Ion: 74 Resp: 115556

Ion Ratio Lower Upper

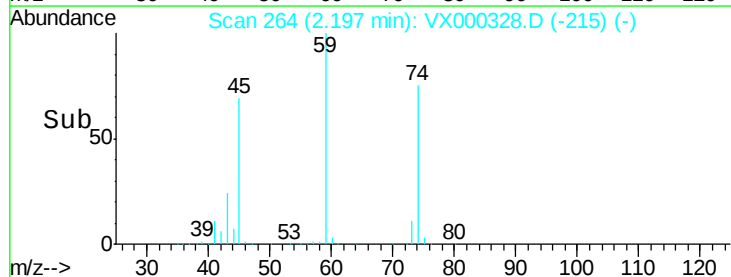
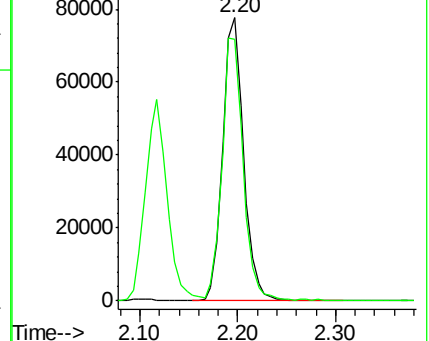
74 100

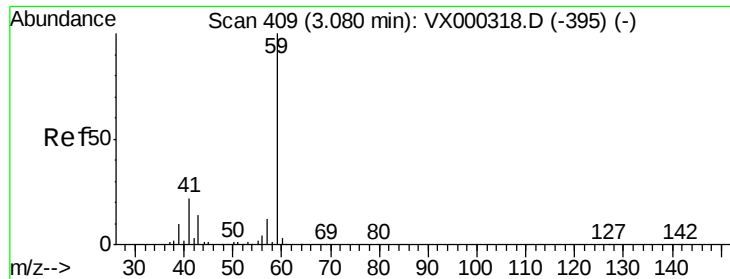
45 92.7 45.1 135.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

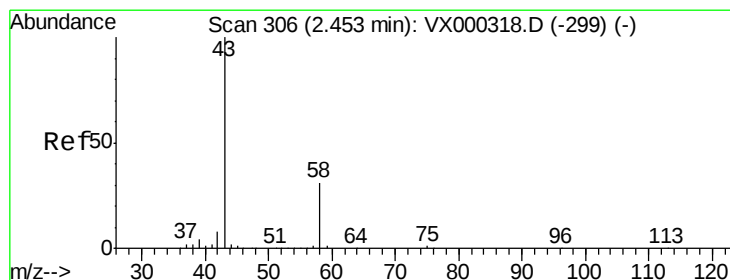
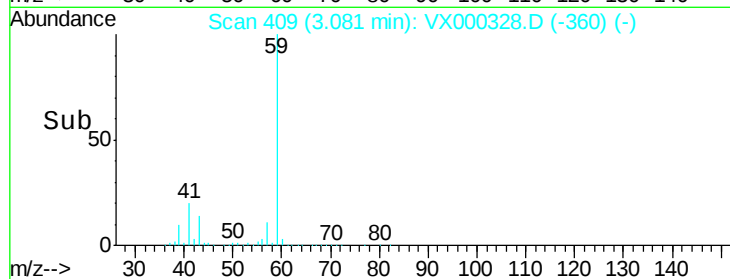
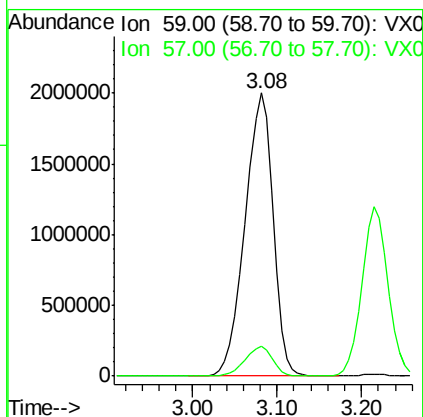
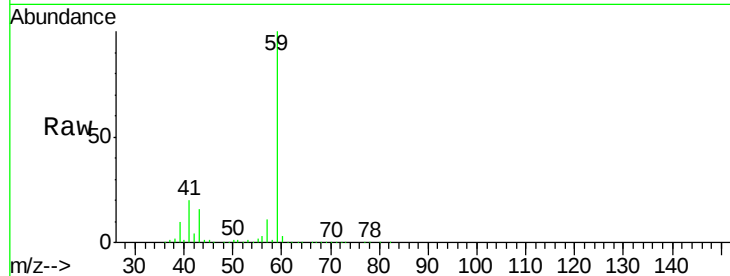




#11
Tert butyl alcohol
Concen: 10367.02 ug/l
RT: 3.08 min Scan# 409
Delta R.T. 0.00 min
Lab File: VX000328.D
Acq: 15 Mar 2018 15:03

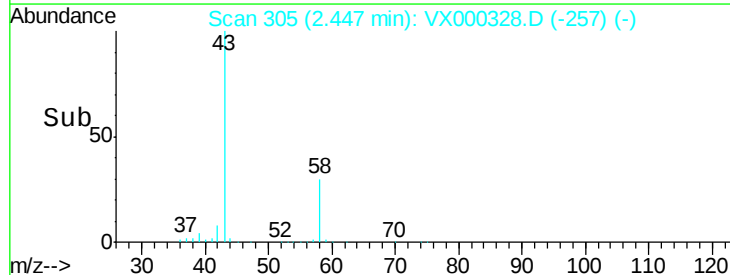
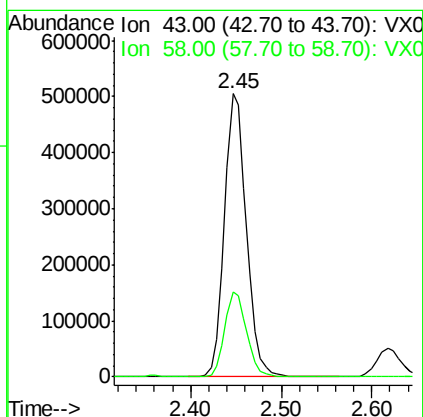
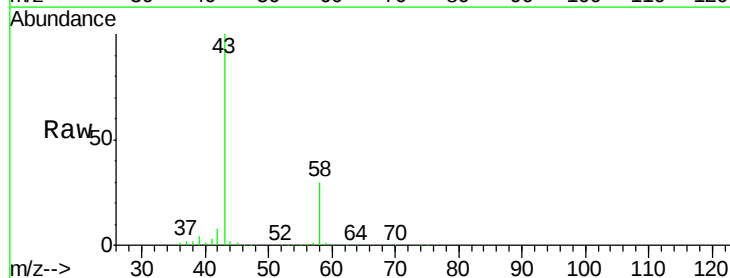
Instrument :
MSVOA_X
ClientSampleId :
13118DL

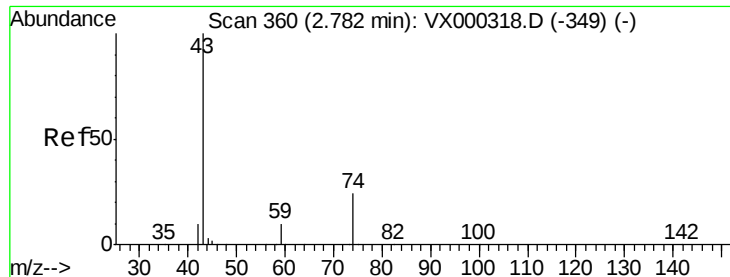
Tot Ion: 59 Resp: 4507208
Ion Ratio Lower Upper
59 100
57 10.4 8.4 12.6



#16
Acetone
Concen: 945.39 ug/l
RT: 2.45 min Scan# 305
Delta R.T. -0.01 min
Lab File: VX000328.D
Acq: 15 Mar 2018 15:03

Tgt Ion: 43 Resp: 848189
Ion Ratio Lower Upper
43 100
58 30.0 24.7 37.1





#18

Methyl Acetate

Concen: 37.16 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX000328.D

Acq: 15 Mar 2018 15:03

Instrument :

MSVOA_X

ClientSampleId :

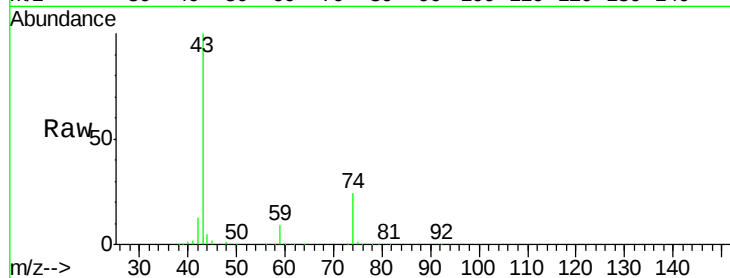
13118DL

Tot Ion: 43 Resp: 74612

Ion Ratio Lower Upper

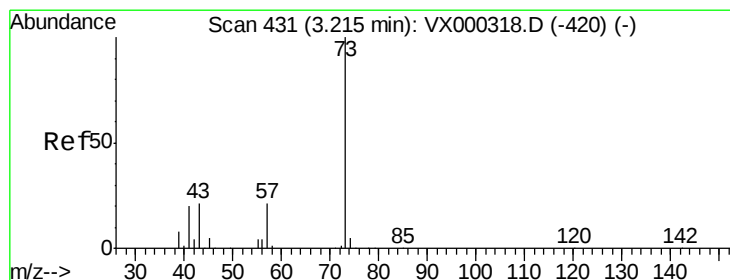
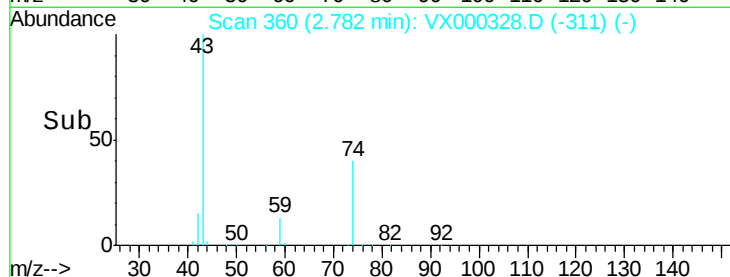
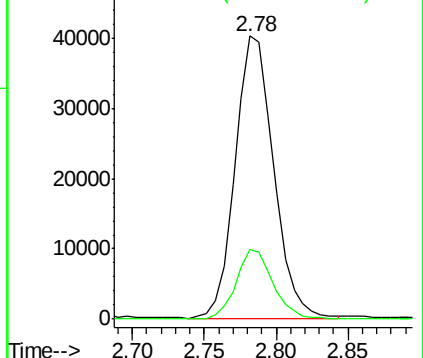
43 100

74 23.5 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#19

Methyl tert-butyl Ether

Concen: 3220.87 ug/l

RT: 3.21 min Scan# 431

Delta R.T. 0.00 min

Lab File: VX000328.D

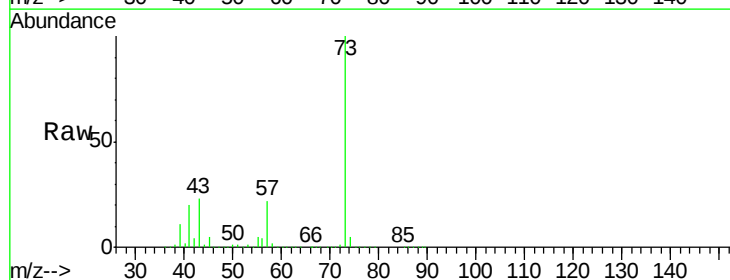
Acq: 15 Mar 2018 15:03

Tgt Ion: 73 Resp: 12022487

Ion Ratio Lower Upper

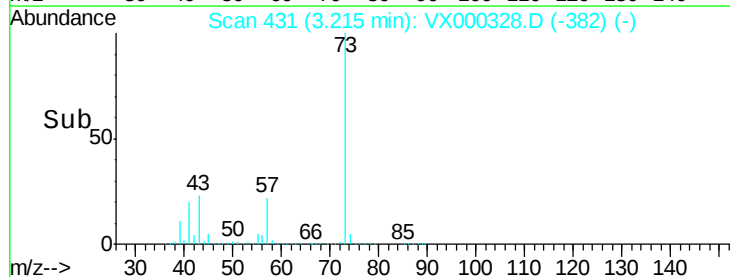
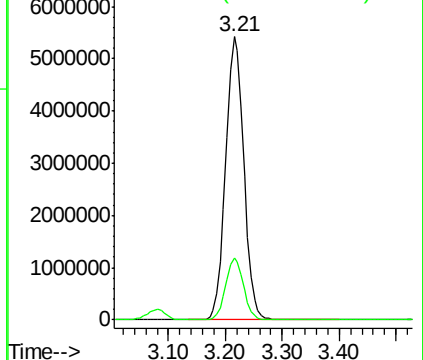
73 100

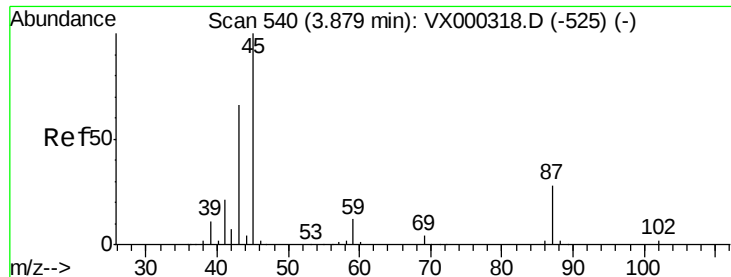
57 22.1 17.2 25.8



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#22

Diisopropyl ether

Concen: 43.08 ug/l

RT: 3.88 min Scan# 540

Delta R.T. 0.00 min

Lab File: VX000328.D

Acq: 15 Mar 2018 15:03

Instrument :

MSVOA_X

ClientSampleId :

13118DL

Tot Ion: 45 Resp: 135547

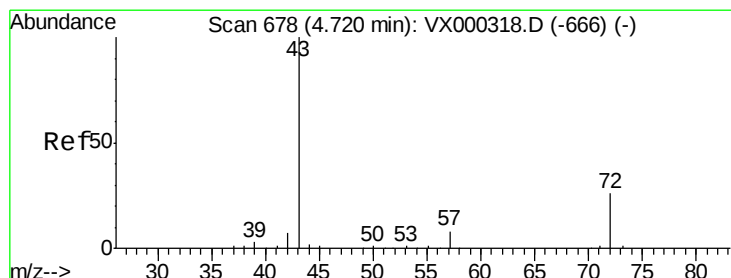
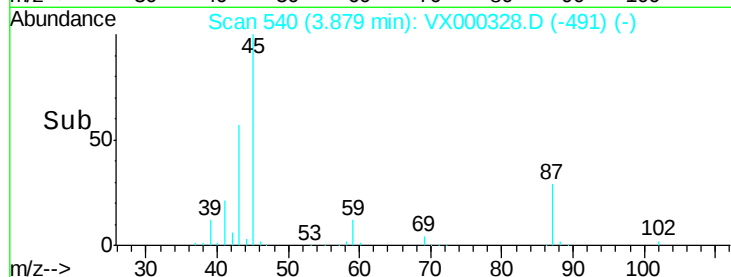
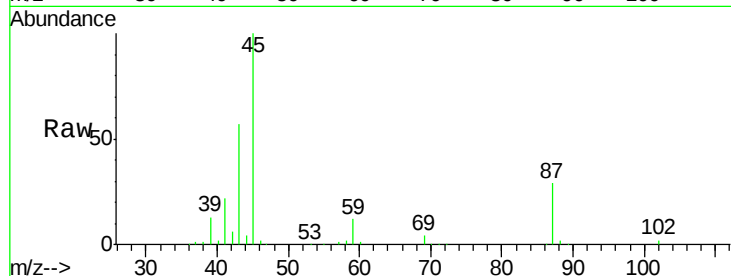
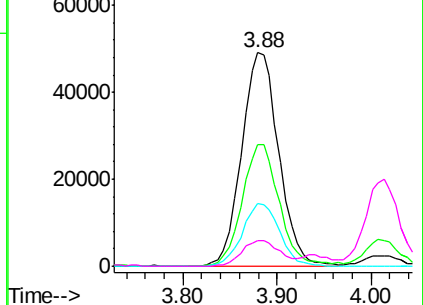
Ion	Ratio	Lower	Upper
45	100		
43	56.8	53.9	80.9
87	29.3	22.6	34.0
59	12.0	9.5	14.3

Abundance Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0



#25

2-Butanone

Concen: 98.49 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.01 min

Lab File: VX000328.D

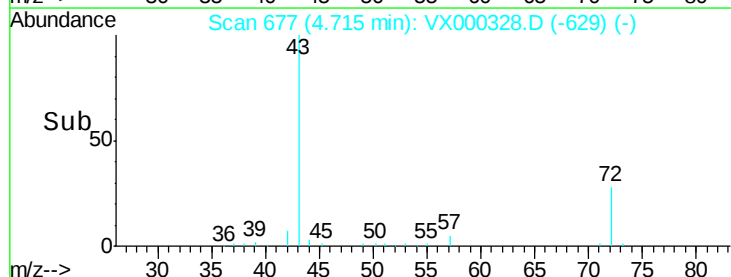
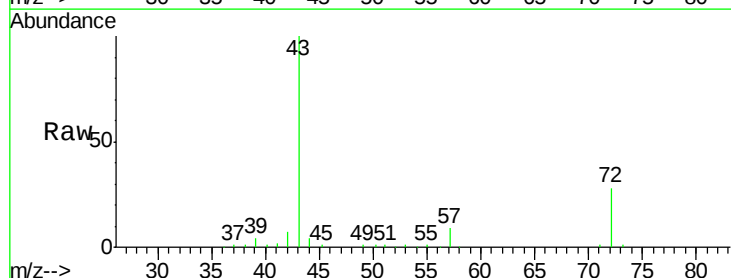
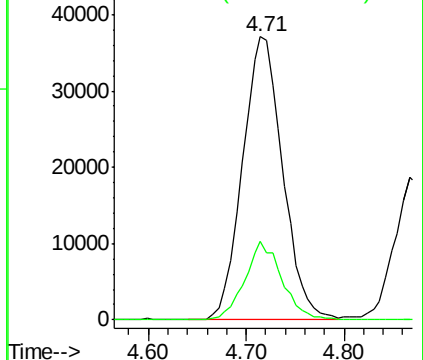
Acq: 15 Mar 2018 15:03

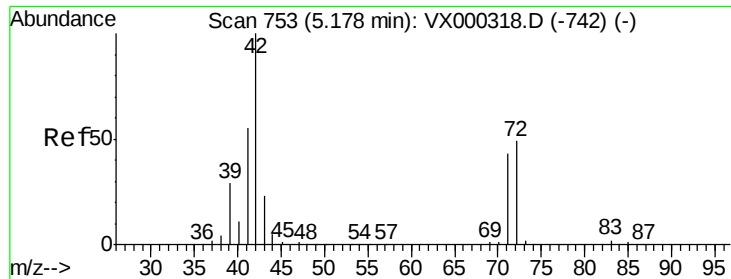
Tgt Ion: 43 Resp: 105617

Ion	Ratio	Lower	Upper
43	100		
72	28.0	21.0	31.6

Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

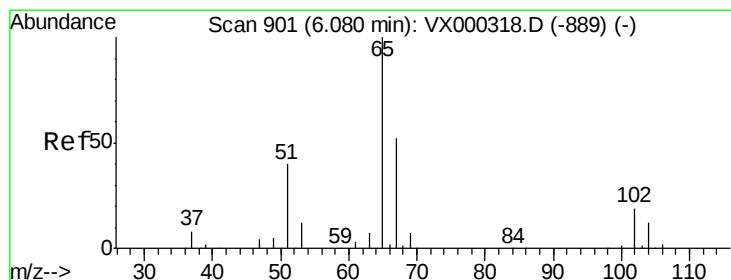
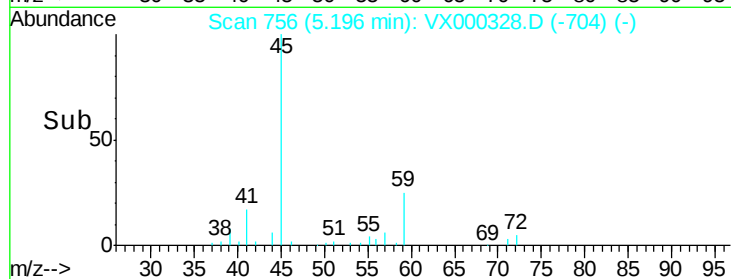
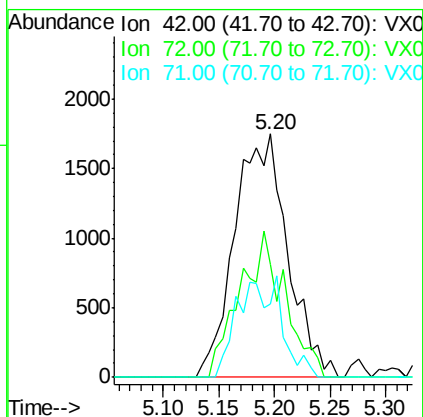
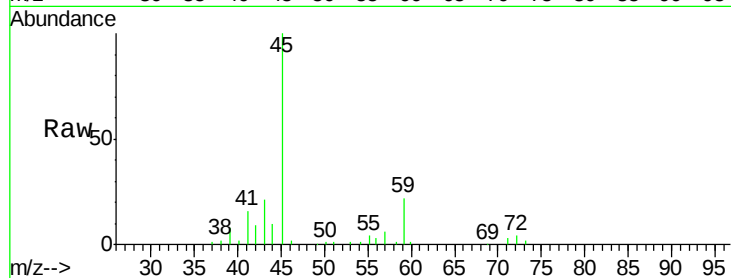




#29
Tetrahydrofuran
Concen: 8.39 ug/l
RT: 5.20 min Scan# 756
Delta R.T. 0.02 min
Lab File: VX000328.D
Acq: 15 Mar 2018 15:03

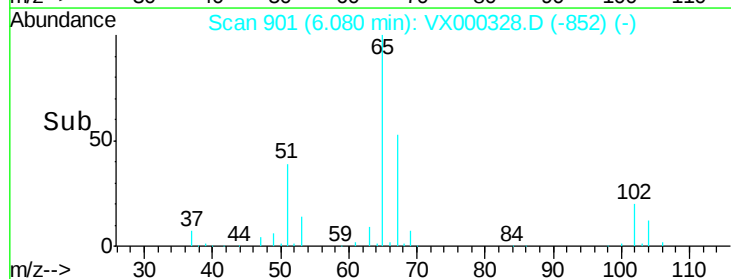
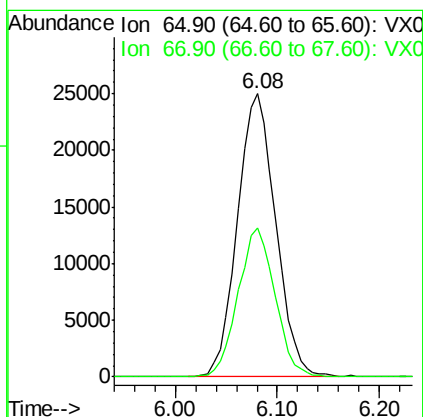
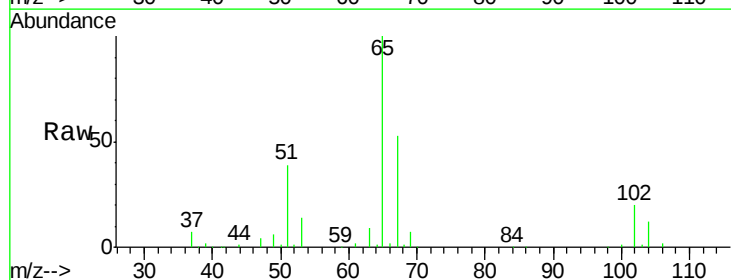
Instrument :
MSVOA_X
ClientSampled :
13118DL

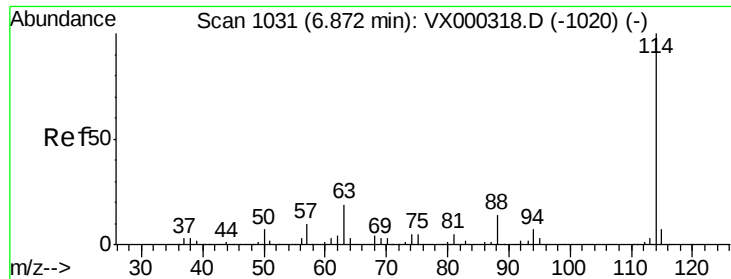
Tot Ion: 42 Resp: 5793
Ion Ratio Lower Upper
42 100
72 50.8 37.9 56.9
71 33.9 34.4 51.6#



#33
1,2-Dichloroethane-d4
Concen: 48.33 ug/l
RT: 6.08 min Scan# 901
Delta R.T. 0.00 min
Lab File: VX000328.D
Acq: 15 Mar 2018 15:03

Tgt Ion: 65 Resp: 64939
Ion Ratio Lower Upper
65 100
67 51.0 0.0 103.2

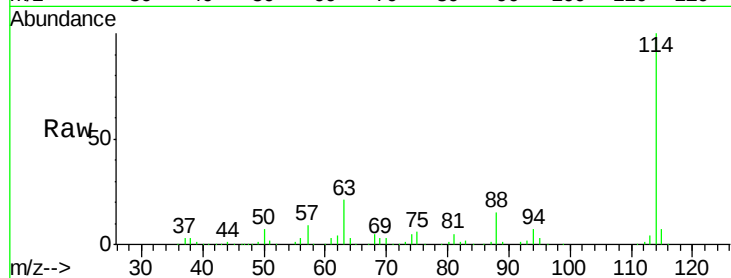




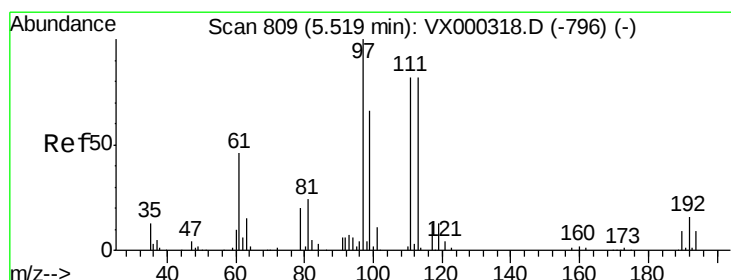
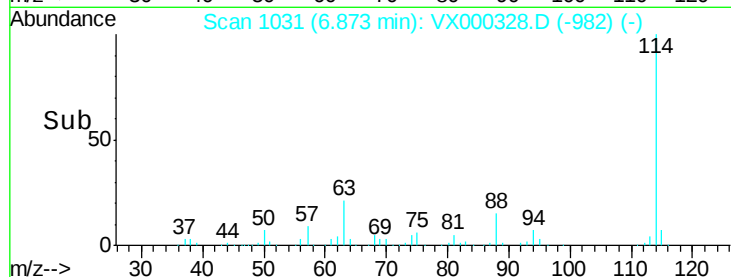
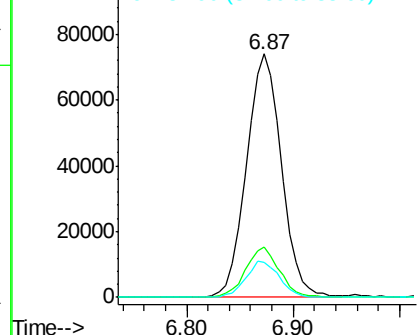
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. 0.00 min
 Lab File: VX000328.D
 Acq: 15 Mar 2018 15:03

Instrument :
 MSVOA_X
 ClientSampleID :
 13118DL

Tot Ion:114 Resp: 171042
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 38.4
 88 14.6 0.0 27.0

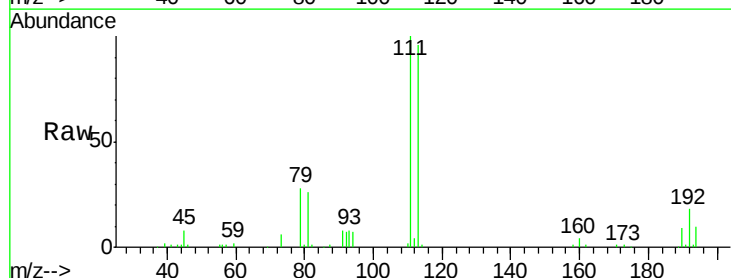


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

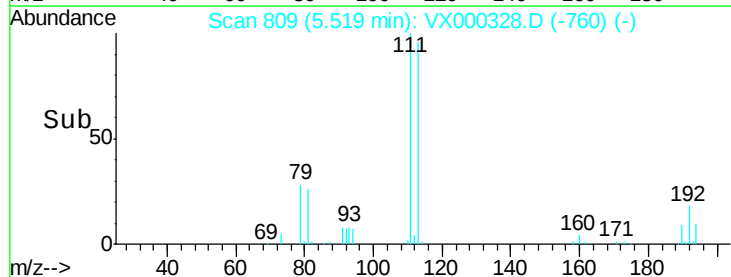
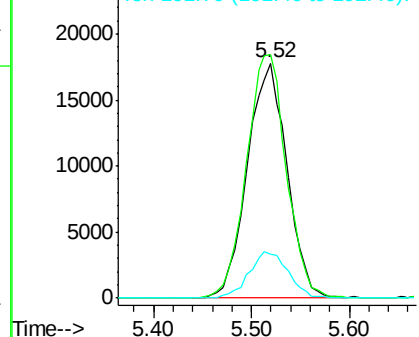


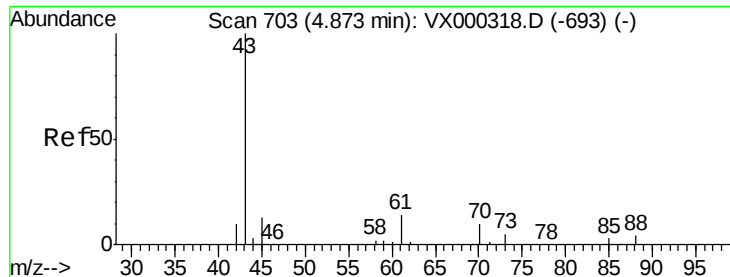
#35
 Dibromofluoromethane
 Concen: 46.09 ug/l
 RT: 5.52 min Scan# 809
 Delta R.T. 0.00 min
 Lab File: VX000328.D
 Acq: 15 Mar 2018 15:03

Tgt Ion:113 Resp: 49743
 Ion Ratio Lower Upper
 113 100
 111 104.8 82.4 123.6
 192 19.6 15.8 23.6



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

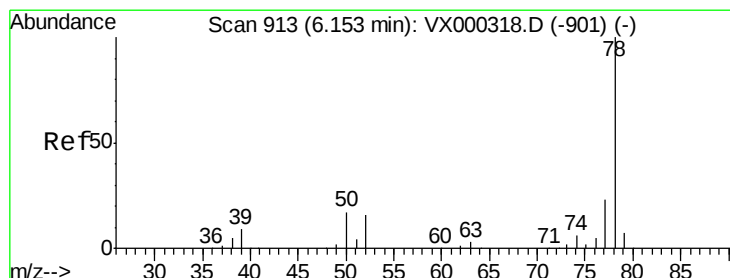
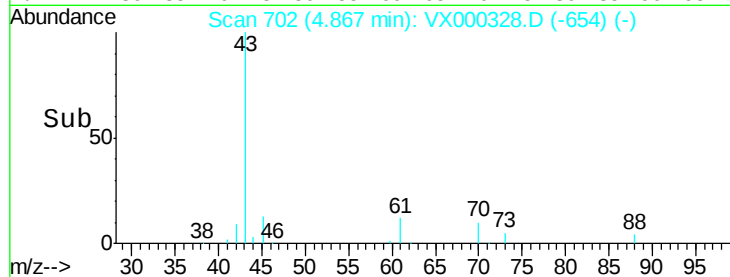
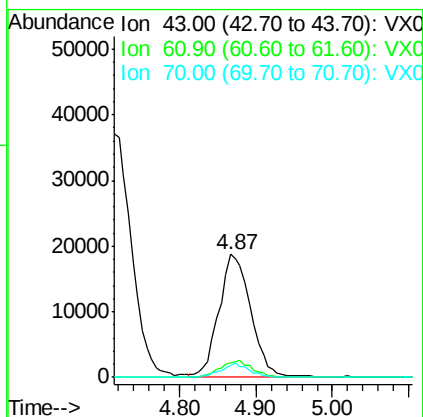
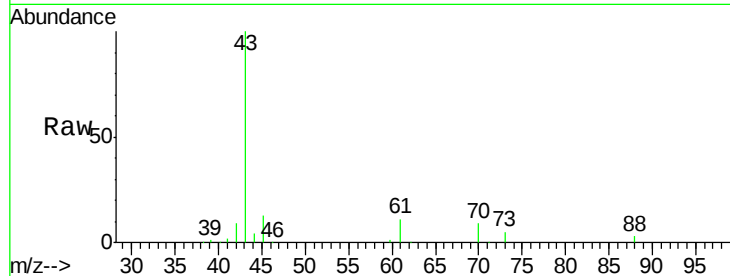




#37
Ethyl Acetate
Concen: 26.01 ug/l
RT: 4.87 min Scan# 702
Delta R.T. -0.01 min
Lab File: VX000328.D
Acq: 15 Mar 2018 15:03

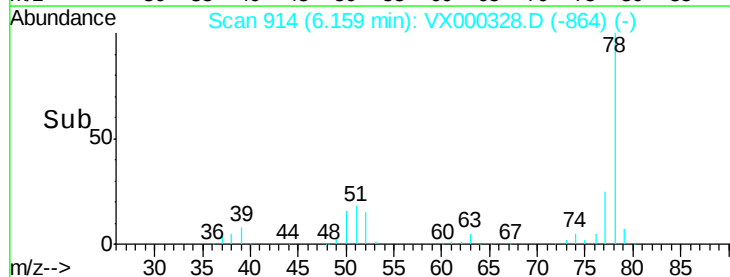
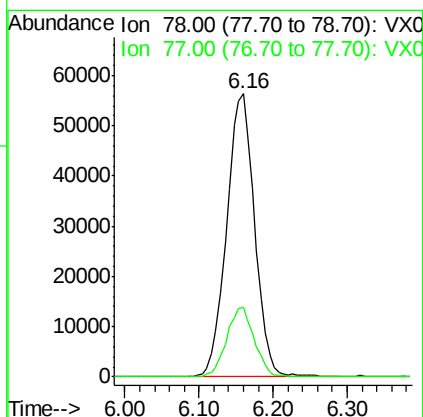
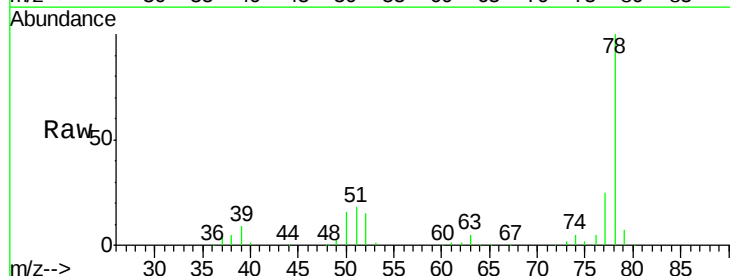
Instrument :
MSVOA_X
ClientSampled :
13118DL

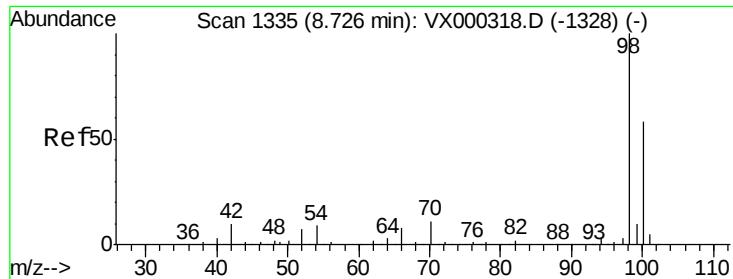
Tot Ion: 43 Resp: 53723
Ion Ratio Lower Upper
43 100
61 13.4 11.1 16.7
70 10.0 7.7 11.5



#40
Benzene
Concen: 33.62 ug/l
RT: 6.16 min Scan# 914
Delta R.T. 0.01 min
Lab File: VX000328.D
Acq: 15 Mar 2018 15:03

Tgt Ion: 78 Resp: 148227
Ion Ratio Lower Upper
78 100
77 24.7 18.7 28.1





#50

Toluene-d8

Concen: 47.80 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VX000328.D

Acq: 15 Mar 2018 15:03

Instrument :

MSVOA_X

ClientSampled :

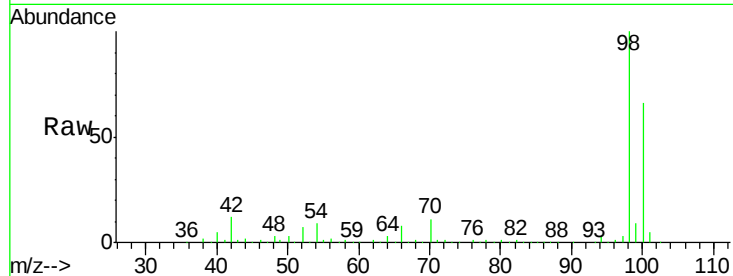
13118DL

Tot Ion: 98 Resp: 215184

Ion Ratio Lower Upper

98 100

100 62.1 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.73

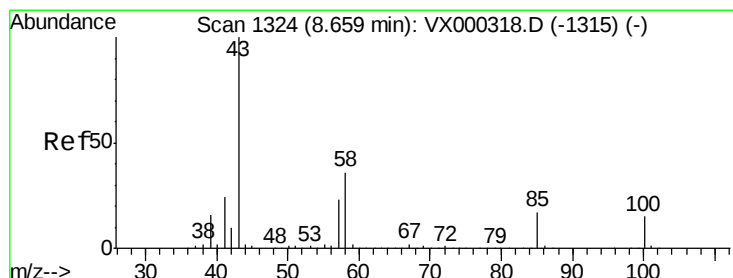
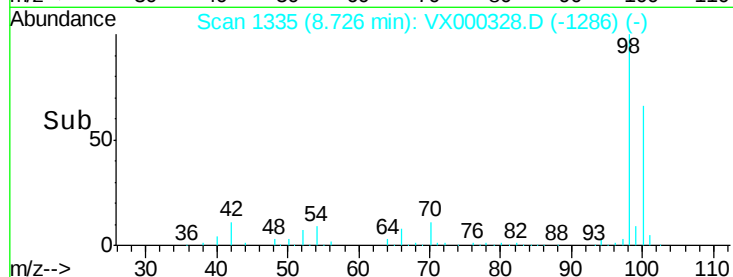
150000

100000

50000

0

Time--> 8.60 8.70 8.80 8.90



#51

4-Methyl-2-Pentanone

Concen: 15.59 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. 0.00 min

Lab File: VX000328.D

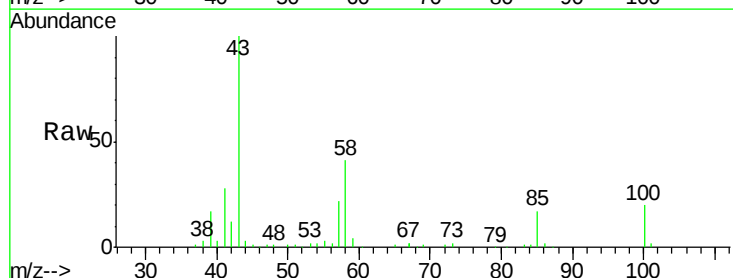
Acq: 15 Mar 2018 15:03

Tgt Ion: 43 Resp: 36102

Ion Ratio Lower Upper

43 100

58 42.3 30.3 45.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.66

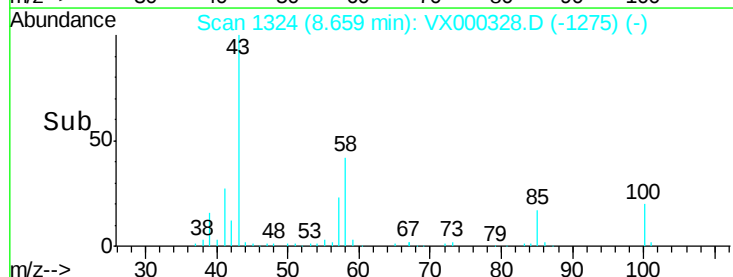
30000

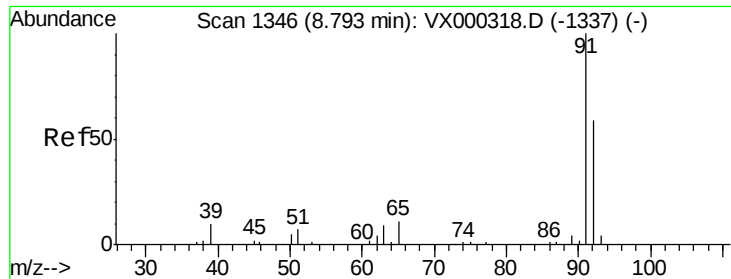
20000

10000

0

Time--> 8.65 8.70





#52

Toluene

Concen: 57.53 ug/l

RT: 8.79 min Scan# 1346

Delta R.T. 0.00 min

Lab File: VX000328.D

Acq: 15 Mar 2018 15:03

Instrument :

MSVOA_X

ClientSampleId :

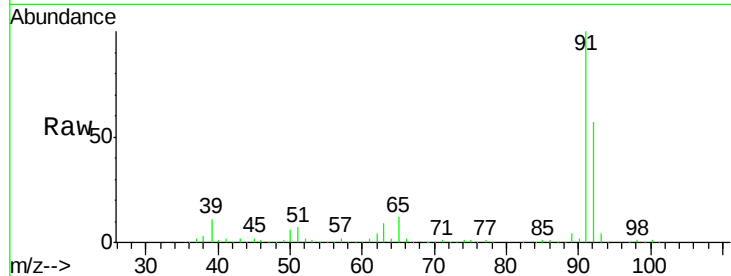
13118DL

Tot Ion: 92 Resp: 178175

Ion Ratio Lower Upper

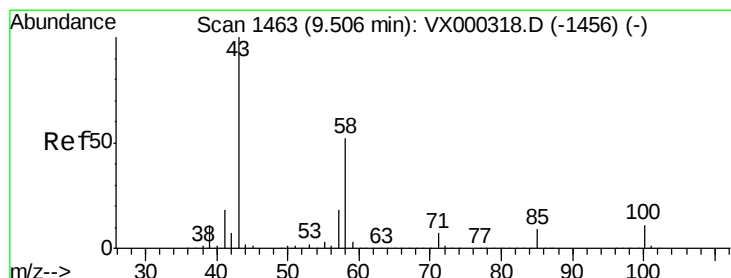
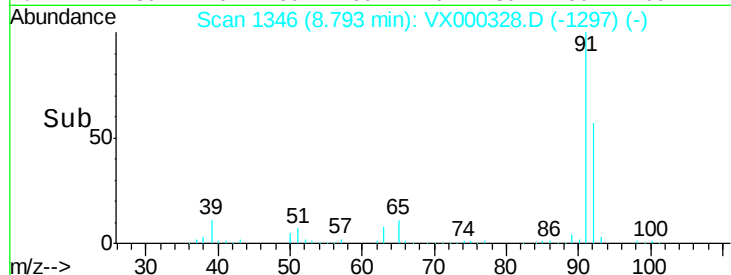
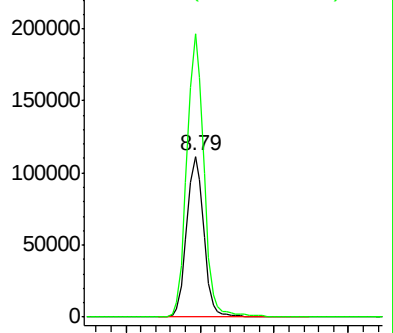
92 100

91 175.0 140.2 210.2



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#59

2-Hexanone

Concen: 6.65 ug/l

RT: 9.51 min Scan# 1463

Delta R.T. 0.00 min

Lab File: VX000328.D

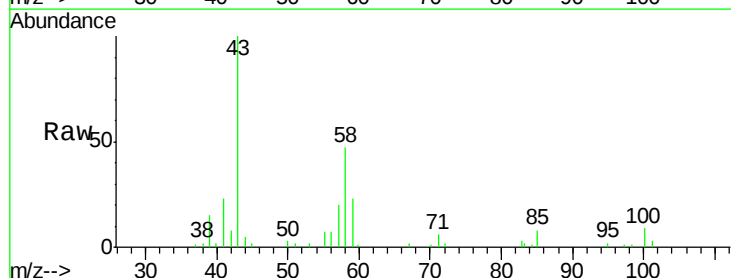
Acq: 15 Mar 2018 15:03

Tgt Ion: 43 Resp: 12976

Ion Ratio Lower Upper

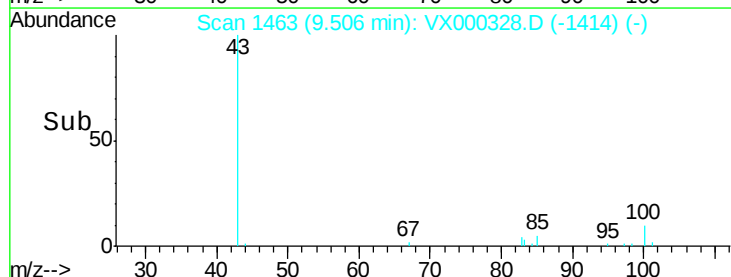
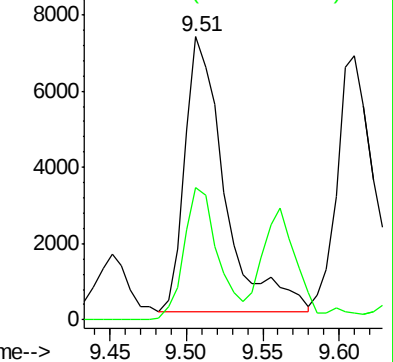
43 100

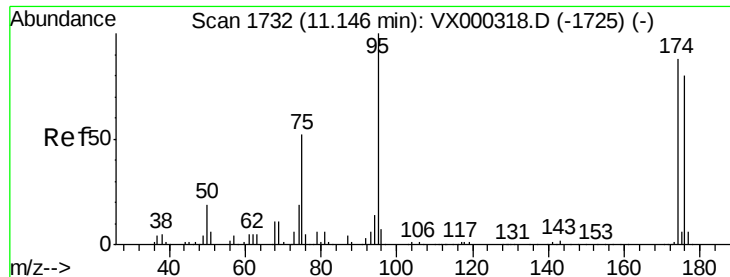
58 41.5 26.6 79.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 46.82 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VX000328.D

Acq: 15 Mar 2018 15:03

Instrument :

MSVOA_X

ClientSampleId :

13118DL

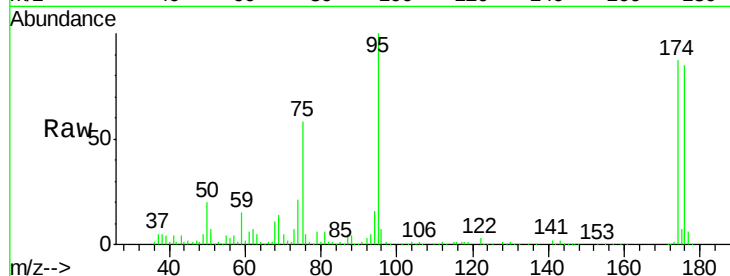
Tot Ion: 95 Resp: 84531

Ion Ratio Lower Upper

95 100

174 87.8 0.0 173.6

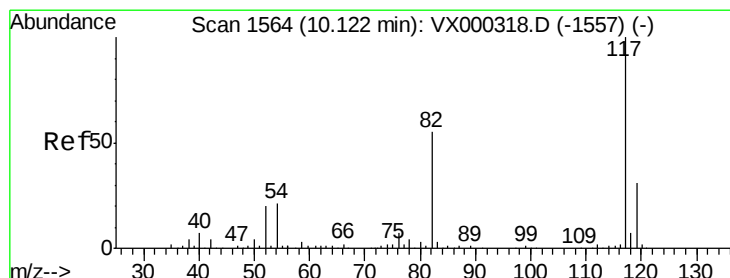
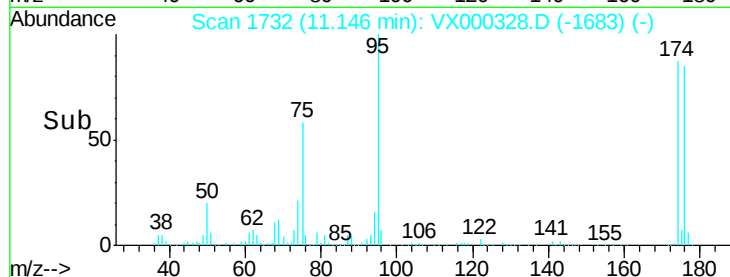
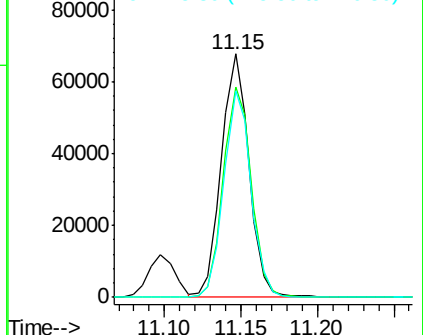
176 83.7 0.0 164.6



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: 50.00 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VX000328.D

Acq: 15 Mar 2018 15:03

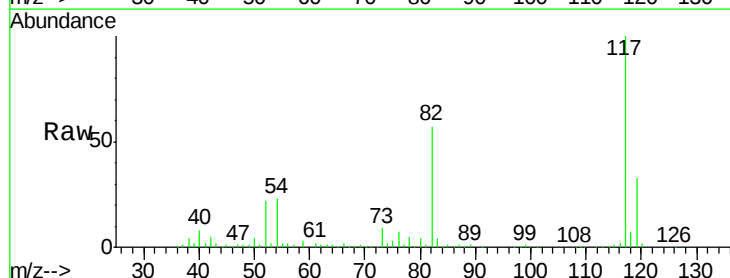
Tgt Ion: 117 Resp: 167181

Ion Ratio Lower Upper

117 100

82 56.9 43.8 65.8

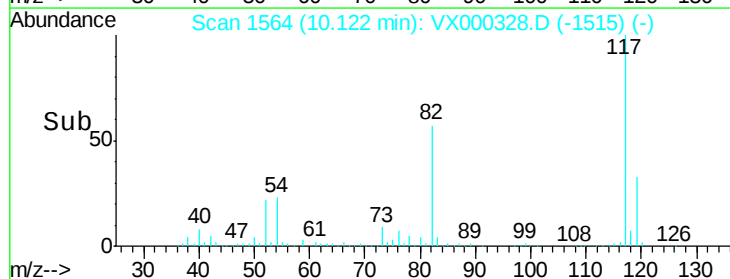
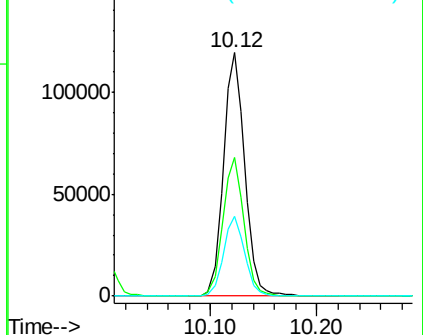
119 32.6 24.9 37.3

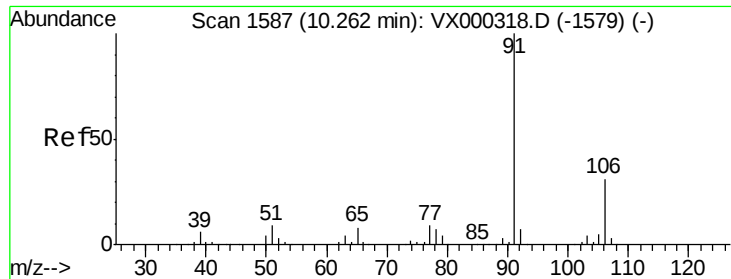


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

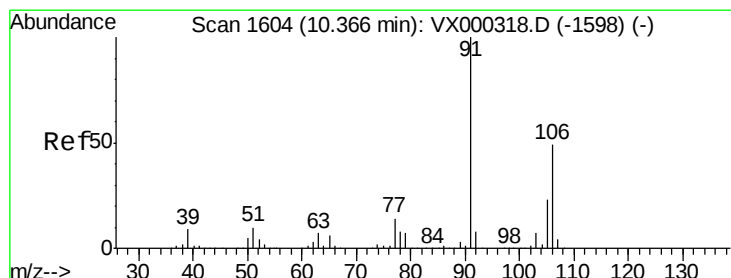
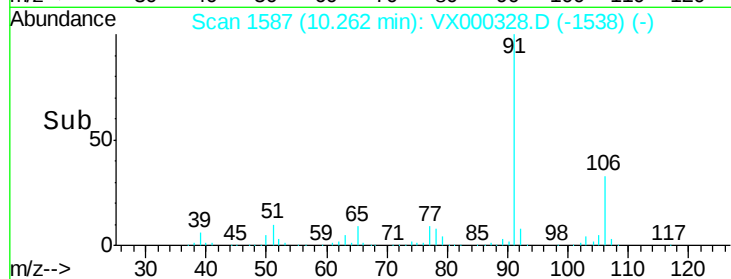
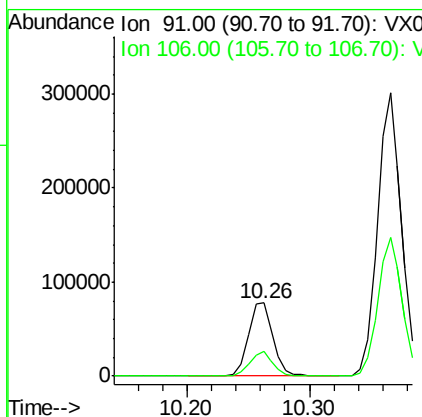
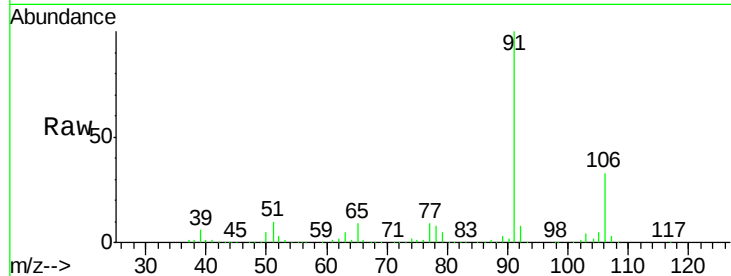




#67
Ethyl Benzene
Concen: 18.97 ug/l
RT: 10.26 min Scan# 1587
Delta R.T. 0.00 min
Lab File: VX000328.D
Acq: 15 Mar 2018 15:03

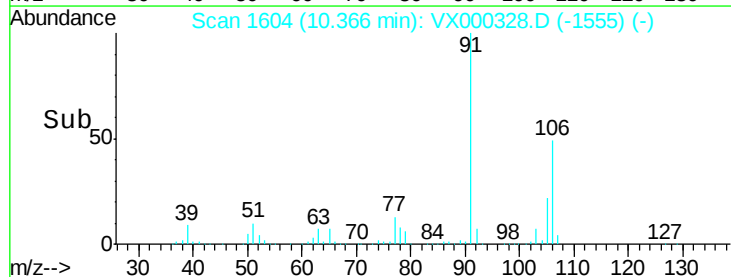
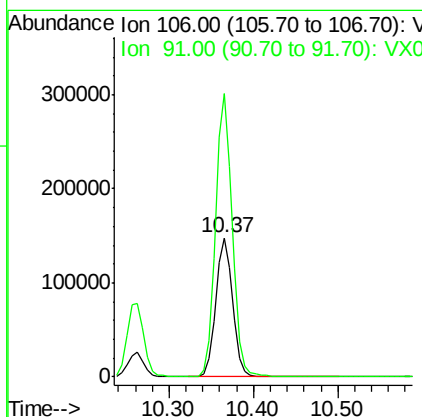
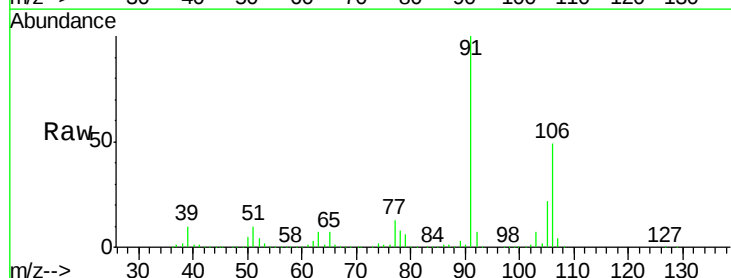
Instrument :
MSVOA_X
ClientSampleID :
13118DL

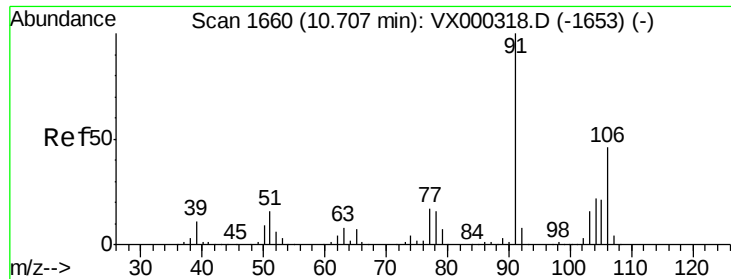
Tot Ion: 91 Resp: 110113
Ion Ratio Lower Upper
91 100
106 33.4 25.0 37.6



#68
m/p-Xylenes
Concen: 91.12 ug/l
RT: 10.37 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VX000328.D
Acq: 15 Mar 2018 15:03

Tgt Ion: 106 Resp: 206049
Ion Ratio Lower Upper
106 100
91 200.1 163.4 245.2

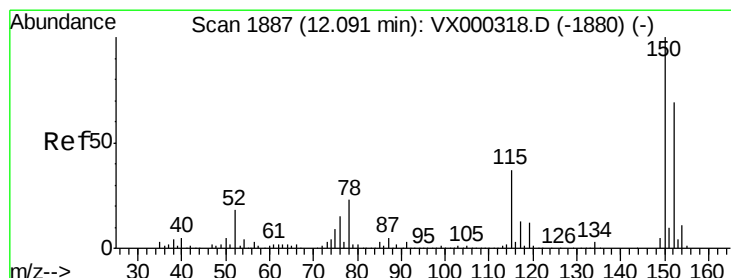
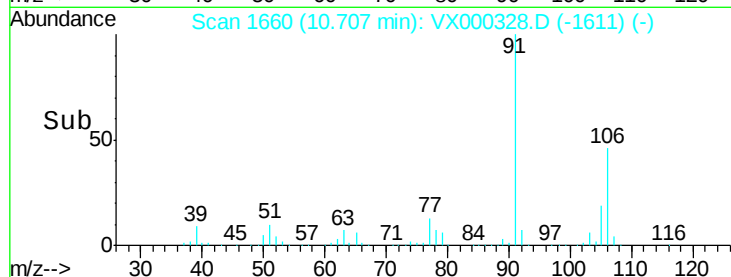
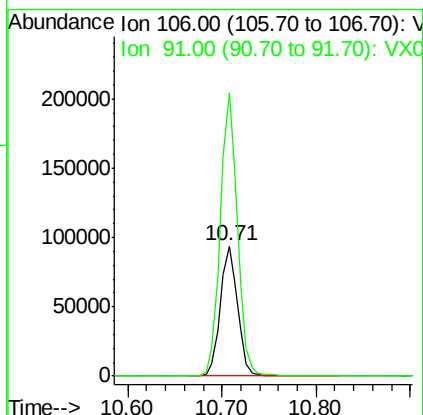
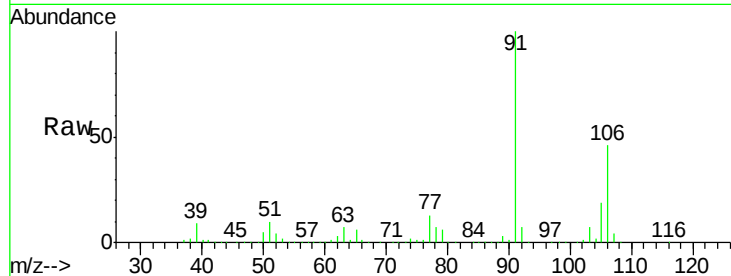




#69
o-Xylene
Concen: 54.41 ug/l
RT: 10.71 min Scan# 1660
Delta R.T. 0.00 min
Lab File: VX000328.D
Acq: 15 Mar 2018 15:03

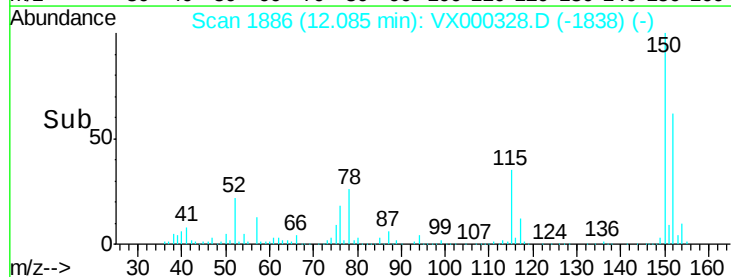
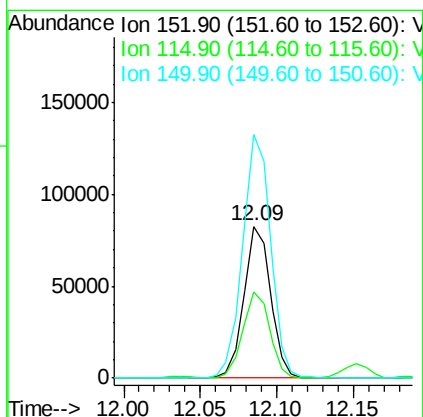
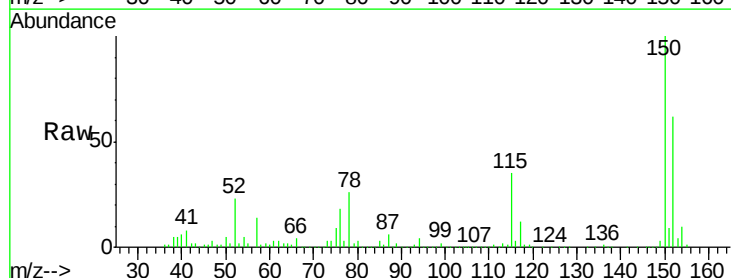
Instrument :
MSVOA_X
ClientSampled :
13118DL

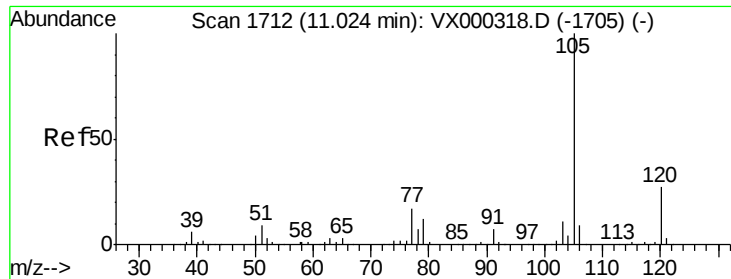
Tot Ion:106 Resp: 119530
Ion Ratio Lower Upper
106 100
91 215.9 106.5 319.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.01 min
Lab File: VX000328.D
Acq: 15 Mar 2018 15:03

Tgt Ion:152 Resp: 100386
Ion Ratio Lower Upper
152 100
115 57.5 39.8 119.3
150 168.1 0.0 344.4





#73

Isopropylbenzene

Concen: 3.91 ug/l

RT: 11.03 min Scan# 1713

Delta R.T. 0.01 min

Lab File: VX000328.D

Acq: 15 Mar 2018 15:03

Instrument :

MSVOA_X

ClientSampleId :

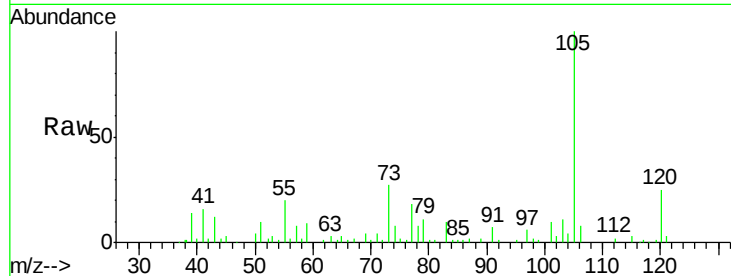
13118DL

Tot Ion:105 Resp: 23644

Ion Ratio Lower Upper

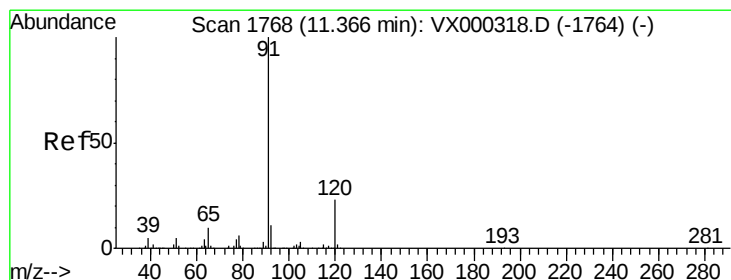
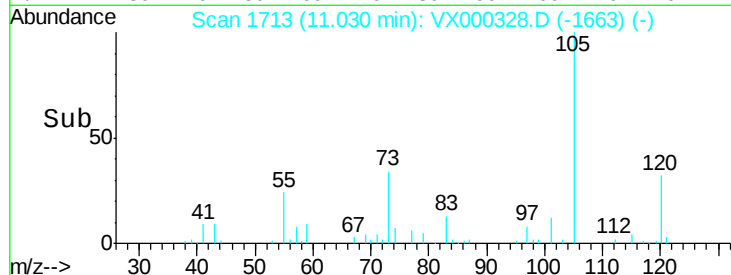
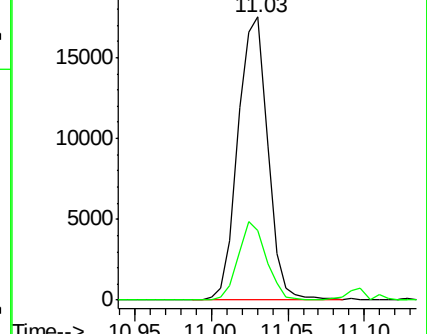
105 100

120 26.2 13.6 40.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 6.77 ug/l

RT: 11.37 min Scan# 1768

Delta R.T. 0.00 min

Lab File: VX000328.D

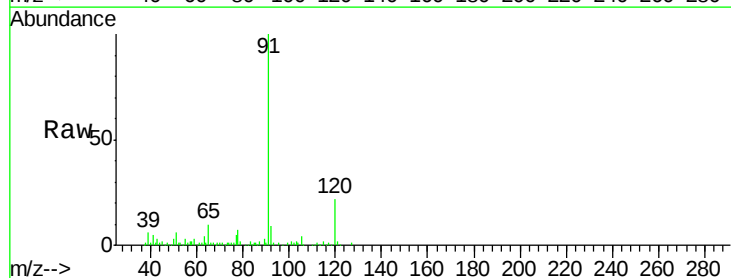
Acq: 15 Mar 2018 15:03

Tgt Ion: 91 Resp: 49364

Ion Ratio Lower Upper

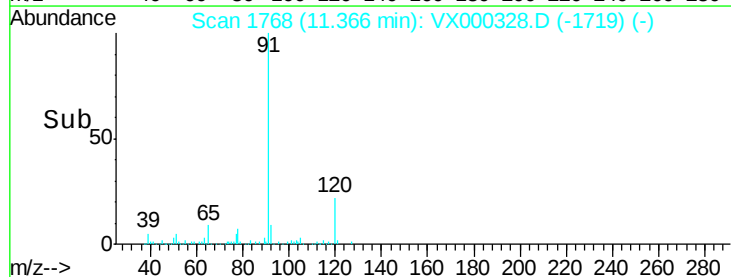
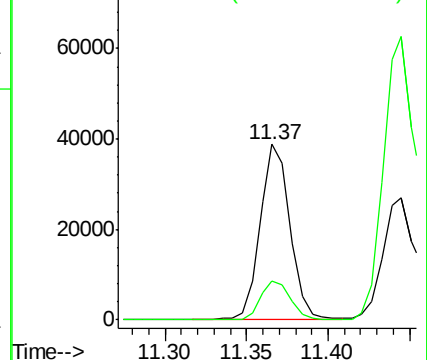
91 100

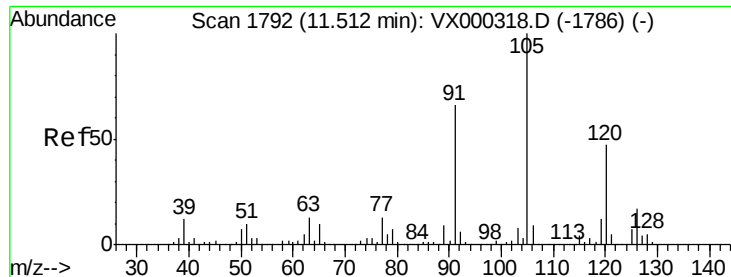
120 22.4 11.8 35.3



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

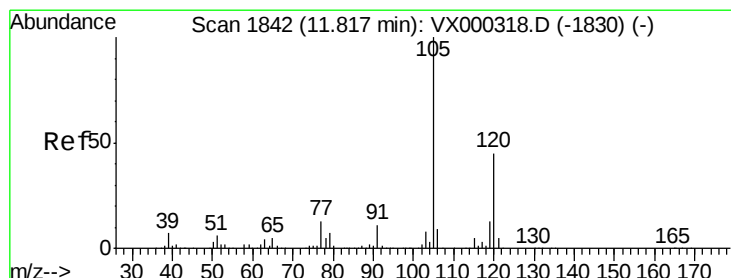
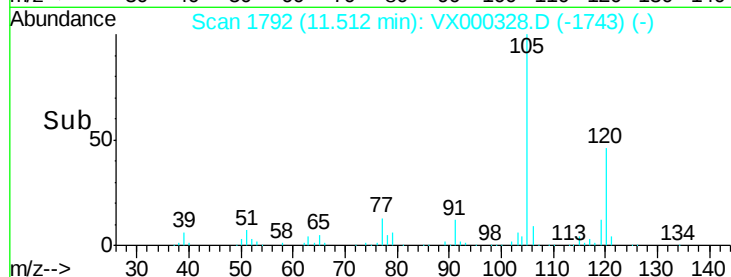
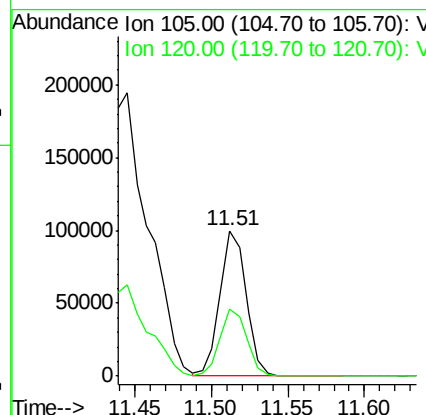
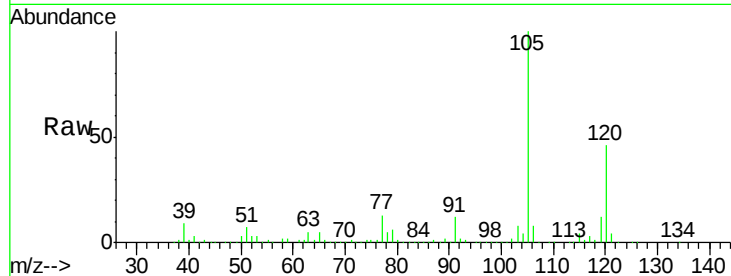




#80
 1,3,5-Trimethylbenzene
 Concen: 23.32 ug/l
 RT: 11.51 min Scan# 1792
 Delta R.T. 0.00 min
 Lab File: VX000328.D
 Acq: 15 Mar 2018 15:03

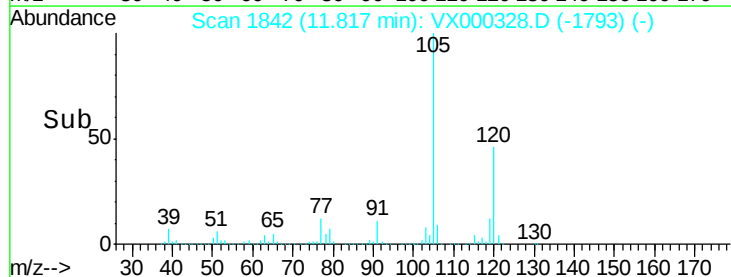
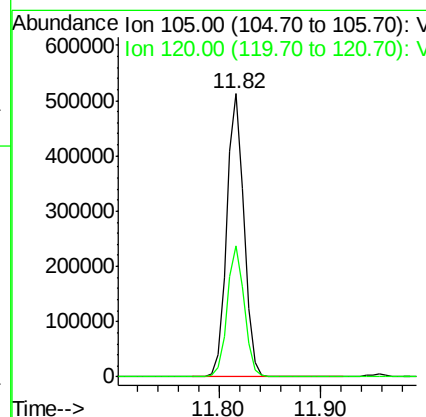
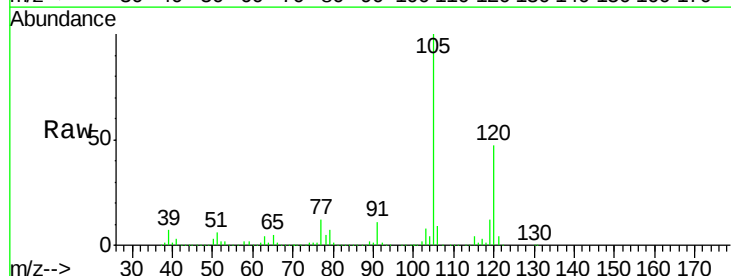
Instrument :
 MSVOA_X
 ClientSampleID :
 13118DL

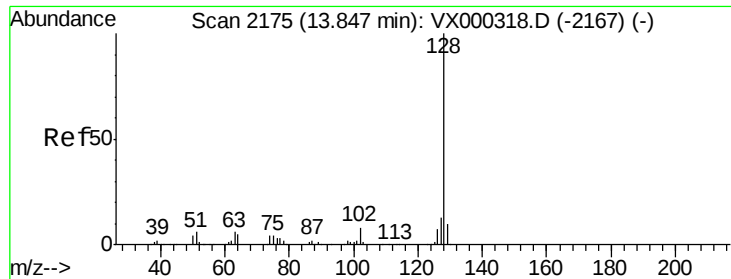
Tot Ion:105 Resp: 120120
 Ion Ratio Lower Upper
 105 100
 120 46.9 24.1 72.4



#84
 1,2,4-Trimethylbenzene
 Concen: 113.67 ug/l
 RT: 11.82 min Scan# 1842
 Delta R.T. 0.00 min
 Lab File: VX000328.D
 Acq: 15 Mar 2018 15:03

Tgt Ion:105 Resp: 601918
 Ion Ratio Lower Upper
 105 100
 120 45.6 22.4 67.3





#95
Naphthalene
Concen: 42.60 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. -0.01 min
Lab File: VX000328.D
Acq: 15 Mar 2018 15:03

Instrument :
MSVOA_X
ClientSampleId :
13118DL

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.6	15.8
129	10.9	8.9	13.3

