

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031119\
 Data File : VX007966.D
 Acq On : 11 Mar 2019 13:04
 Operator : JC/SP
 Sample : K1812-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 002M-35TH-AVE(MAR)

Quant Time: Mar 12 08:06:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X030819W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 08 12:01:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	41467	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	217834	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	193519	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	81163	29.78	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.27%
60) 4-Bromofluorobenzene	11.13	95	87346	28.28	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.27%
63) Toluene-d8	8.71	98	258122	29.15	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.17%

Target Compounds

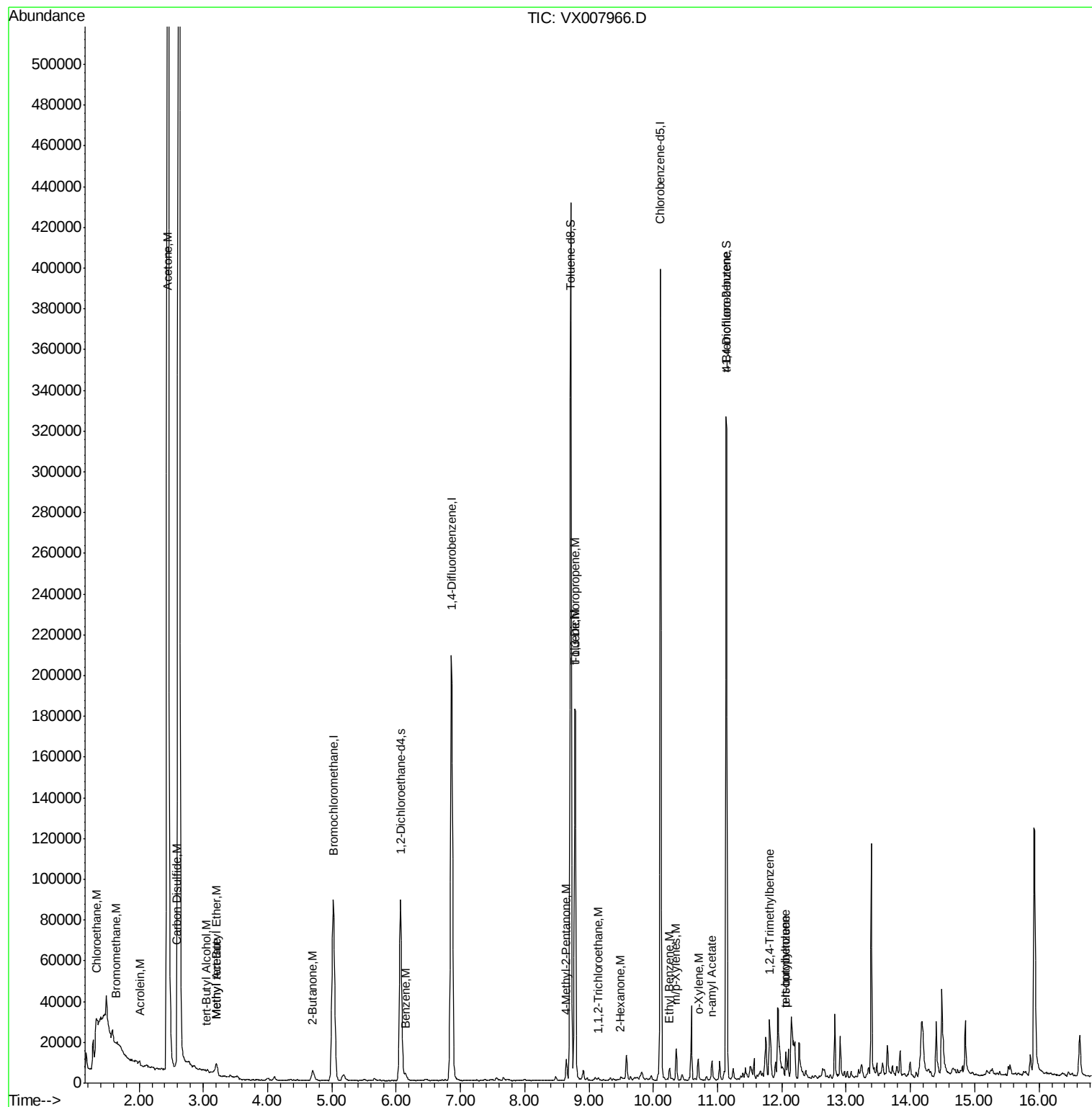
					Ovalue	
5) Bromomethane	1.65	94	315	0.233	ug/l #	53
6) Chloroethane	1.34	64	43233	27.300	ug/l #	54
12) Methyl Acetate	3.20	43	905	0.238	ug/l	96
13) Acrolein	2.00	56	112	0.251	ug/l	84
15) Acetone	2.45	58	512494	878.715	ug/l	97
16) Carbon Disulfide	2.58	76	4156	0.551	ug/l #	93
23) tert-Butyl Alcohol	3.04	59	341	0.523	ug/l #	90
24) Methyl tert-Butyl Ether	3.21	73	5220	0.631	ug/l	91
30) 2-Butanone	4.70	43	9137	3.922	ug/l	99
34) Benzene	6.14	78	3697	0.349	ug/l #	81
47) n-amyl Acetate	10.91	43	1397	0.262	ug/l #	1
48) t-1,3-Dichloropropene	8.79	75	743	0.207	ug/l #	1
50) 1,1,2-Trichloroethane	9.14	97	555	0.208	ug/l #	19
58) 4-Methyl-2-Pentanone	8.65	43	6512	1.634	ug/l	98
59) 2-Hexanone	9.50	43	691	0.220	ug/l #	68
62) Toluene	8.79	91	122465	10.838	ug/l	100
66) Ethyl Benzene	10.25	91	3209	0.264	ug/l	96
67) m/p-Xylenes	10.36	106	4125	0.886	ug/l	99
68) o-Xylene	10.69	106	2208	0.489	ug/l	95
77) t-1,4-Dichloro-2-butene	11.13	75	39832	34.293	ug/l #	6
79) tert-butylbenzene	12.06	119	5298	0.493	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	8965	0.883	ug/l	61
82) p-Isopropyltoluene	12.06	119	5298	0.493	ug/l	98

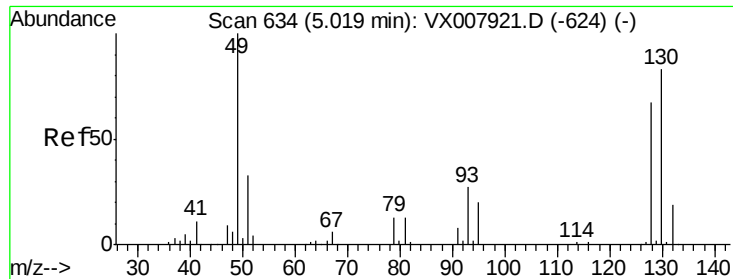
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX031119\
Data File : VX007966.D
Acq On : 11 Mar 2019 13:04
Operator : JC/SP
Sample : K1812-02
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
002M-35TH-AVE(MAR)

Quant Time: Mar 12 08:06:43 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X030819W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Mar 08 12:01:36 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.02 min Scan# 634

Delta R.T. 0.00 min

Lab File: VX007966.D

Acq: 11 Mar 2019 13:04

Instrument :
MSVOA_X
ClientSampleId :
002M-35TH-AVE(MAR)

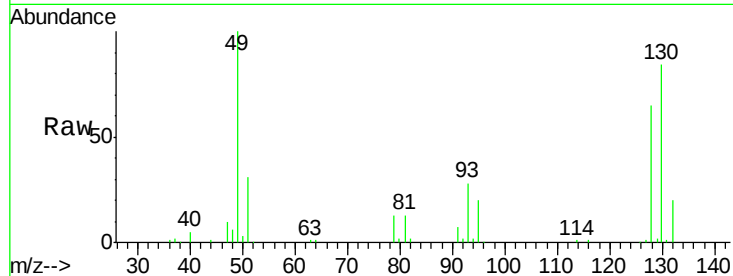
Tot Ion:128 Resp: 41467

Ion Ratio Lower Upper

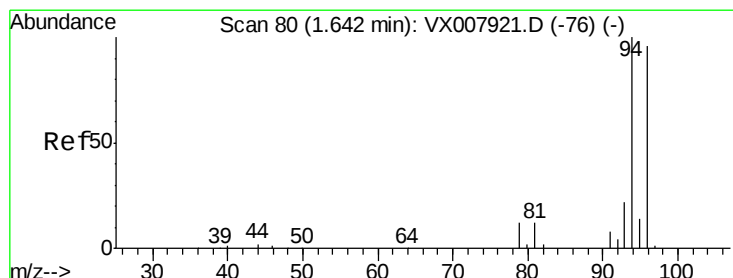
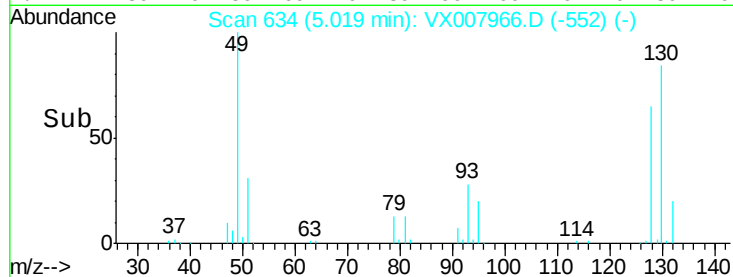
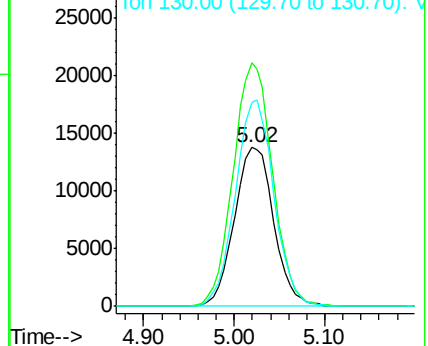
128 100

49 153.6 0.0 350.8

130 127.5 0.0 325.8



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VX0
Ion 130.00 (129.70 to 130.70): V



#5

Bromomethane

Concen: 0.233 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX007966.D

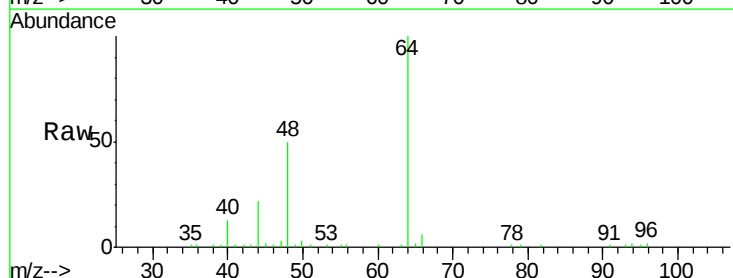
Acq: 11 Mar 2019 13:04

Tgt Ion: 94 Resp: 315

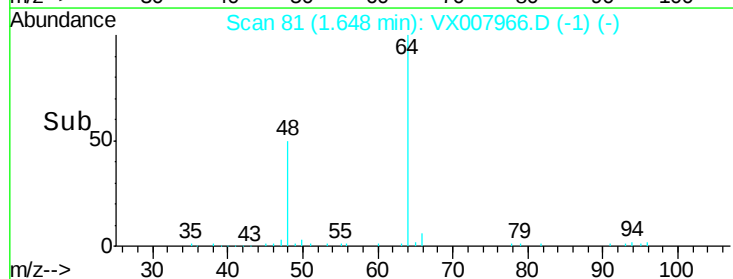
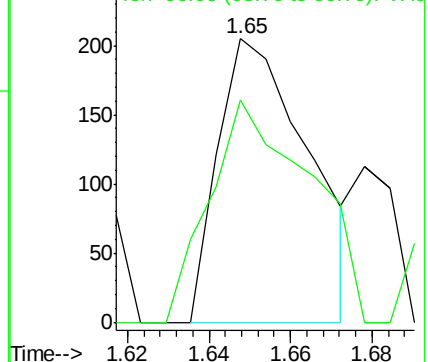
Ion Ratio Lower Upper

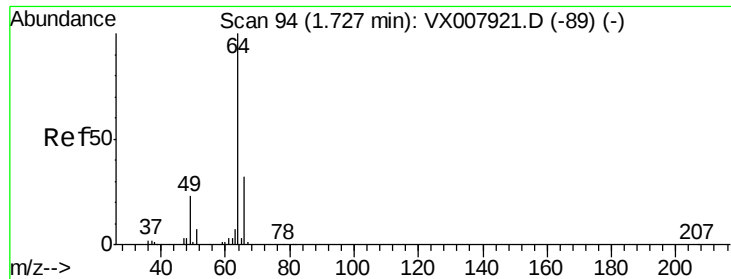
94 100

96 49.3 75.6 113.4#



Abundance Ion 94.00 (93.70 to 94.70): VX0
Ion 96.00 (95.70 to 96.70): VX0





#6

Chloroethane

Concen: 27.300 ug/l

RT: 1.34 min Scan# 30

Delta R.T. -0.39 min

Lab File: VX007966.D

Acq: 11 Mar 2019 13:04

Instrument :

MSVOA_X

ClientSampleId :

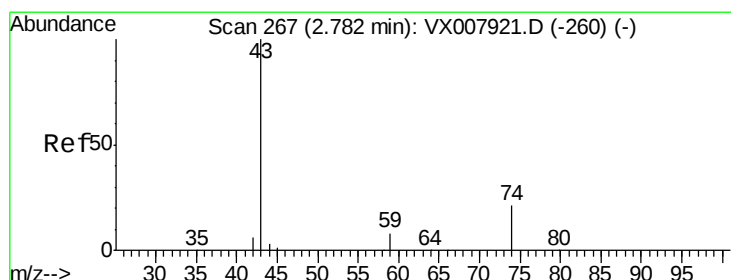
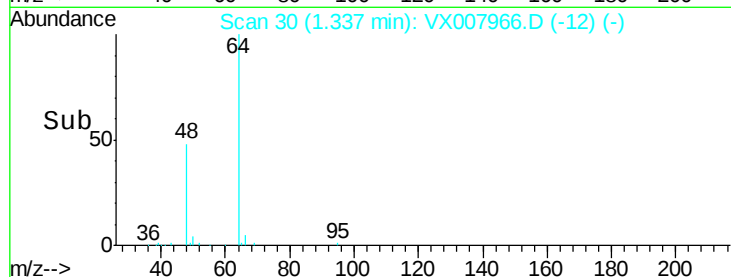
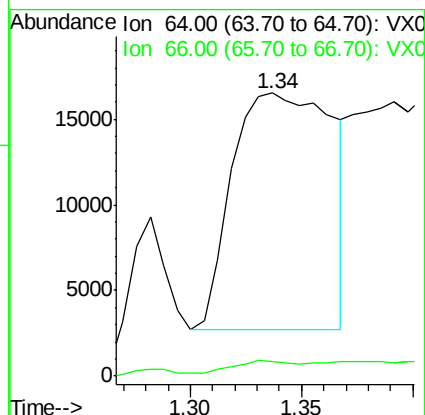
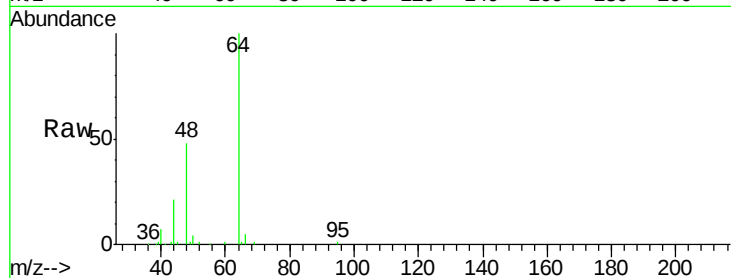
002M-35TH-AVE(MAR)

Tot Ion: 64 Resp: 43233

Ion Ratio Lower Upper

64 100

66 5.1 23.9 35.9#



#12

Methyl Acetate

Concen: 0.238 ug/l

RT: 3.20 min Scan# 336

Delta R.T. 0.42 min

Lab File: VX007966.D

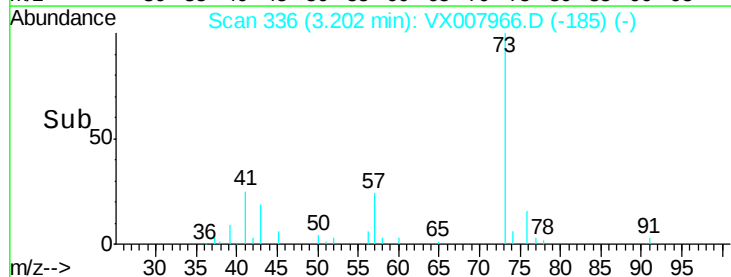
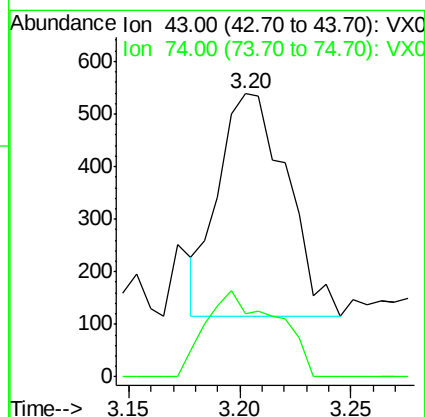
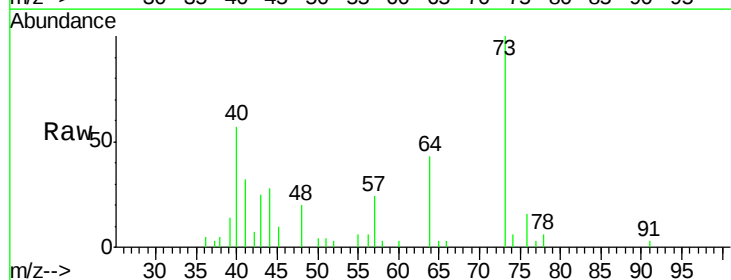
Acq: 11 Mar 2019 13:04

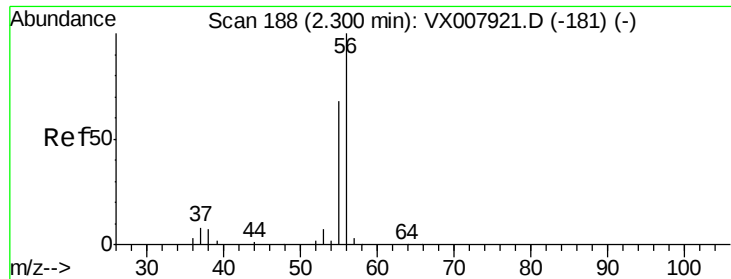
Tgt Ion: 43 Resp: 905

Ion Ratio Lower Upper

43 100

74 26.1 19.4 29.0





#13

Acrolein

Concen: 0.251 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.30 min

Lab File: VX007966.D

Acq: 11 Mar 2019 13:04

Instrument :

MSVOA_X

ClientSampleId :

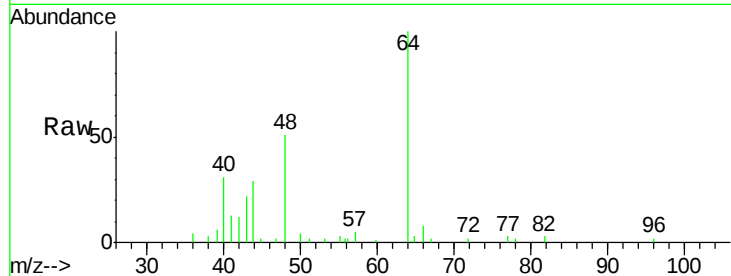
002M-35TH-AVE(MAR)

Tot Ion: 56 Resp: 112

Ion Ratio Lower Upper

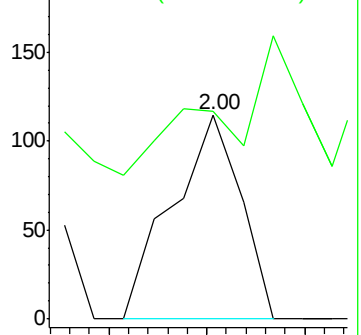
56 100

55 59.8 58.6 87.8

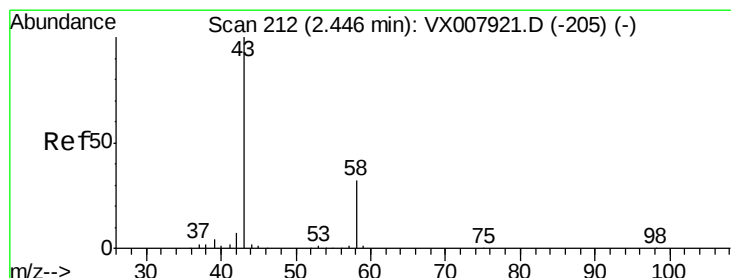
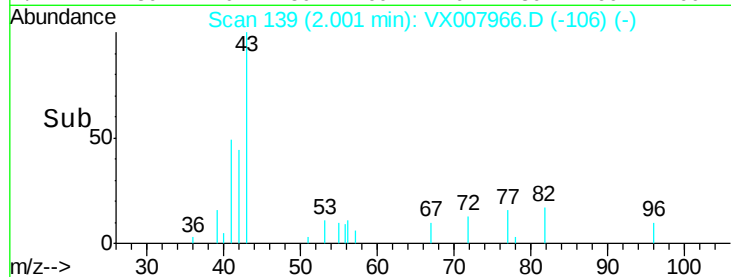


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#15

Acetone

Concen: 878.715 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007966.D

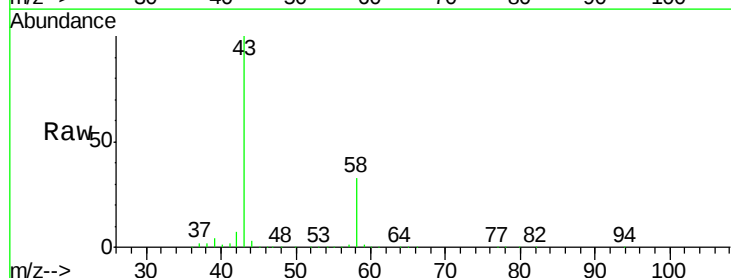
Acq: 11 Mar 2019 13:04

Tgt Ion: 58 Resp: 512494

Ion Ratio Lower Upper

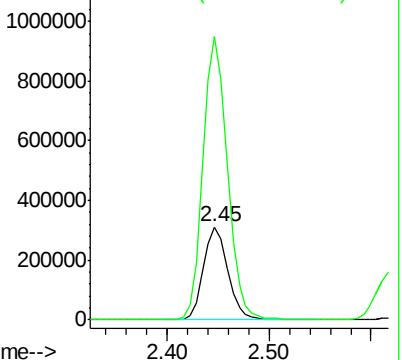
58 100

43 305.3 249.8 374.6

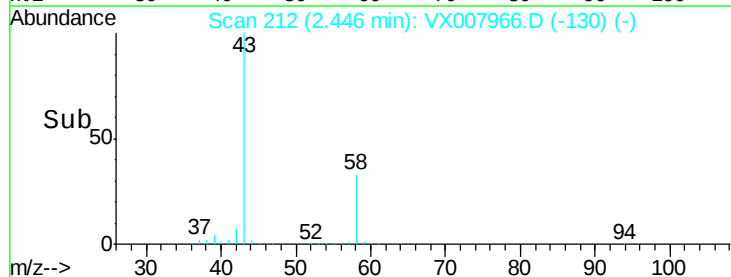


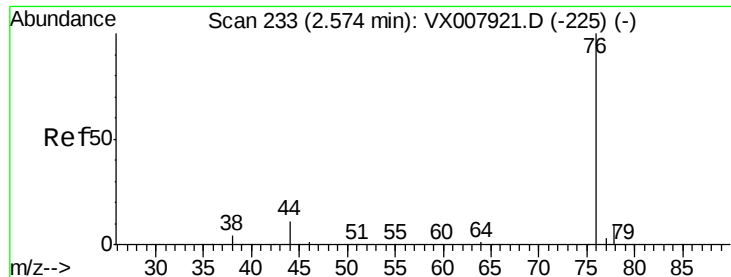
Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



Time-->

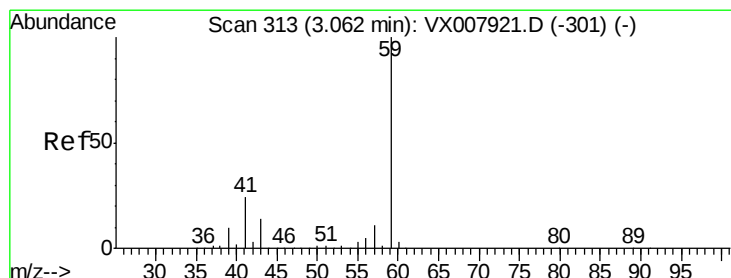
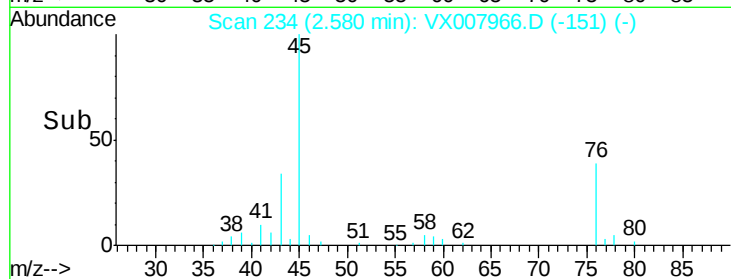
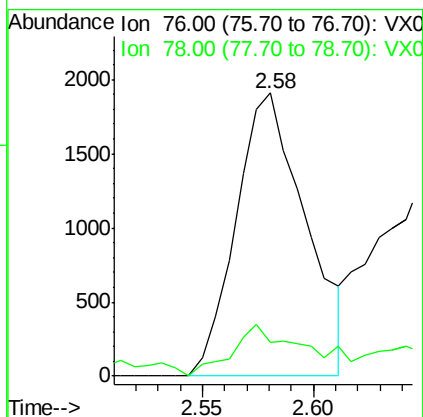
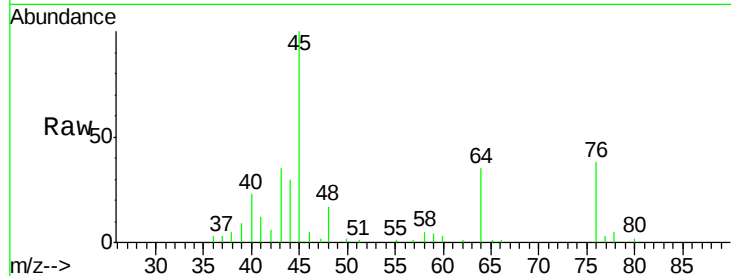




#16
Carbon Disulfide
Concen: 0.551 ug/l
RT: 2.58 min Scan# 234
Delta R.T. 0.01 min
Lab File: VX007966.D
Acq: 11 Mar 2019 13:04

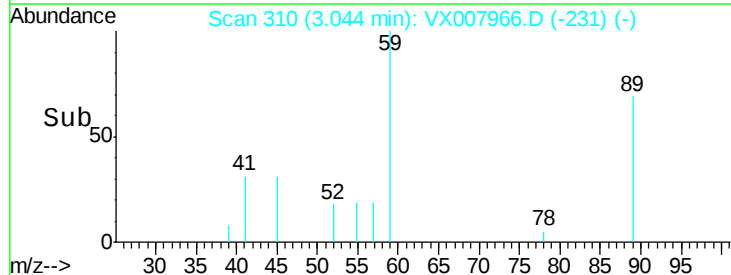
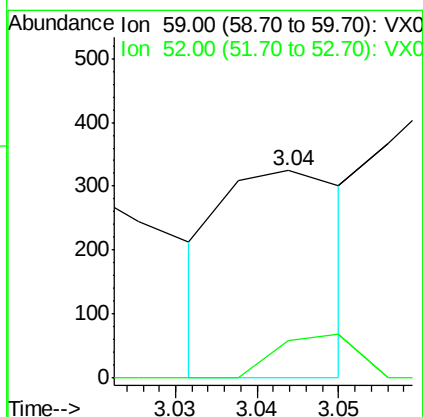
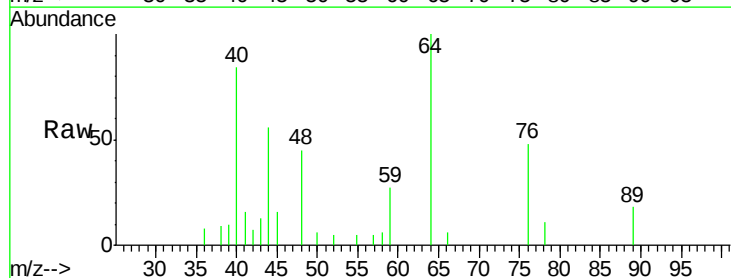
Instrument :
MSVOA_X
ClientSampleId :
002M-35TH-AVE(MAR)

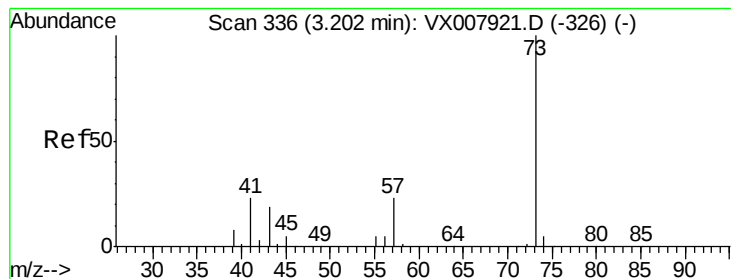
Tot Ion: 76 Resp: 4156
Ion Ratio Lower Upper
76 100
78 11.9 7.5 11.3#



#23
tert-Butyl Alcohol
Concen: 0.523 ug/l
RT: 3.04 min Scan# 310
Delta R.T. -0.02 min
Lab File: VX007966.D
Acq: 11 Mar 2019 13:04

Tgt Ion: 59 Resp: 341
Ion Ratio Lower Upper
59 100
52 13.5 0.2 0.2#



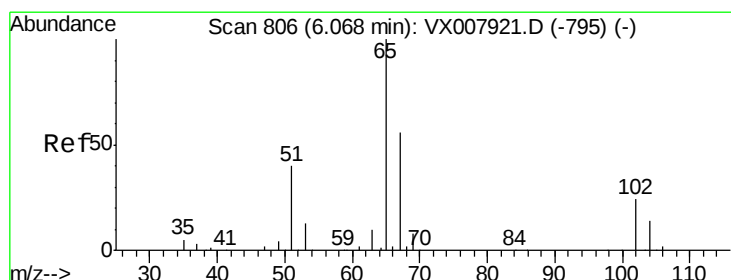
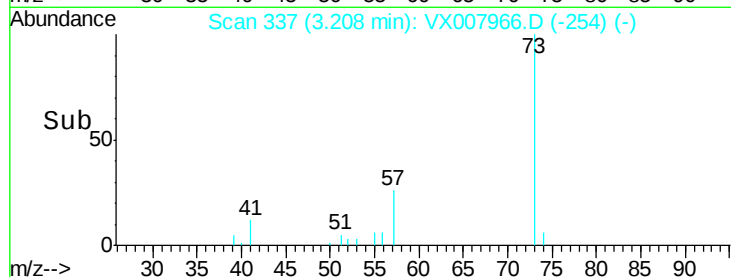
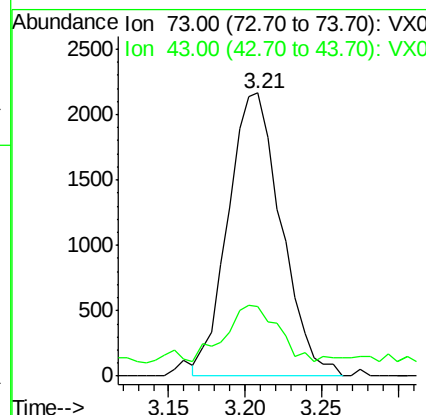
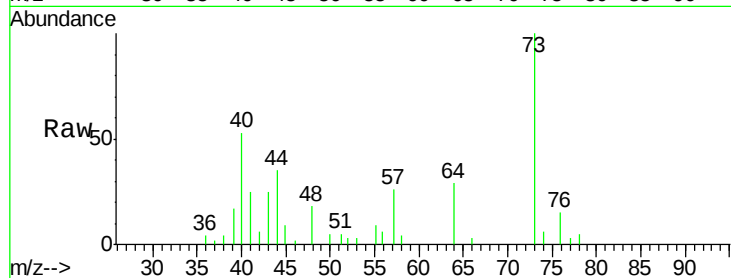


#24

Methyl tert-Butyl Ether
 Concen: 0.631 ug/l
 RT: 3.21 min Scan# 337
 Delta R.T. 0.01 min
 Lab File: VX007966.D
 Acq: 11 Mar 2019 13:04

Instrument :
 MSVOA_X
 ClientSampleId :
 002M-35TH-AVE(MAR)

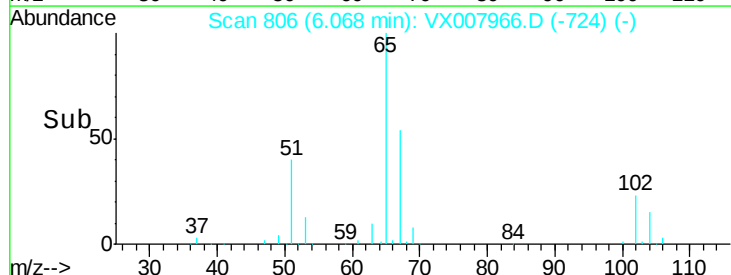
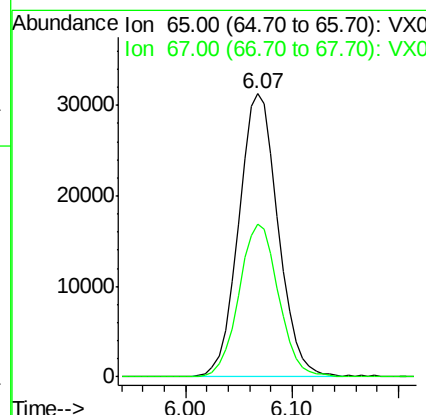
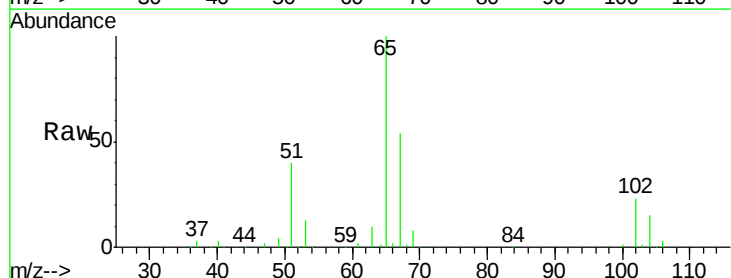
Tot Ion: 73 Resp: 5220
 Ion Ratio Lower Upper
 73 100
 43 17.3 17.1 25.7

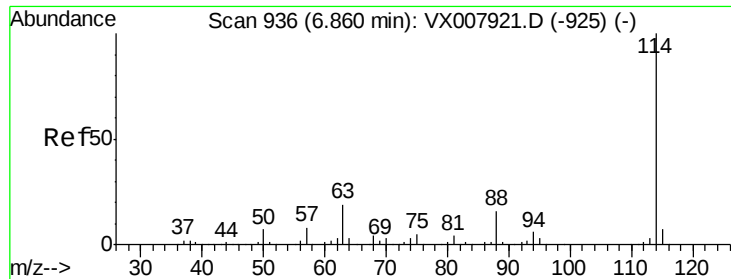


#27

1,2-Dichloroethane-d4
 Concen: 29.778 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX007966.D
 Acq: 11 Mar 2019 13:04

Tgt Ion: 65 Resp: 81163
 Ion Ratio Lower Upper
 65 100
 67 54.2 42.9 64.3

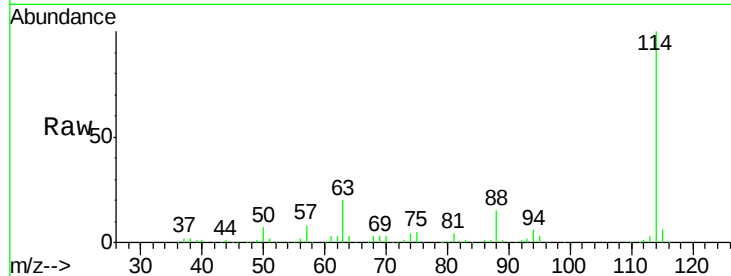




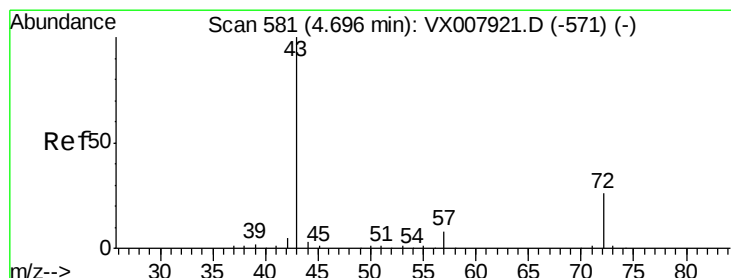
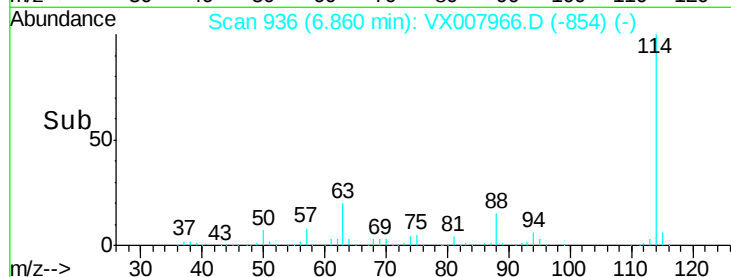
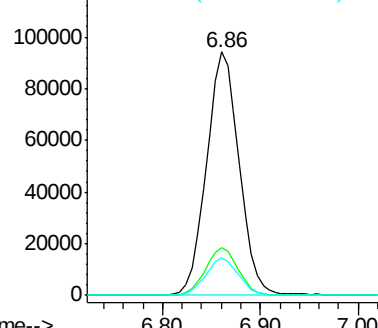
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX007966.D
 Acq: 11 Mar 2019 13:04

Instrument :
 MSVOA_X
 ClientSampleId :
 002M-35TH-AVE(MAR)

Tot Ion:114 Resp: 217834
 Ion Ratio Lower Upper
 114 100
 63 19.6 14.2 21.4
 88 15.3 11.9 17.9

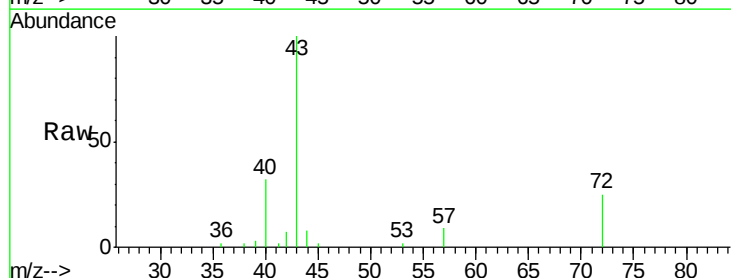


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 88.00 (87.70 to 88.70): VX0

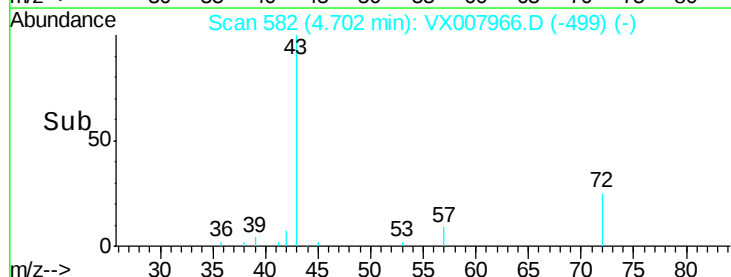
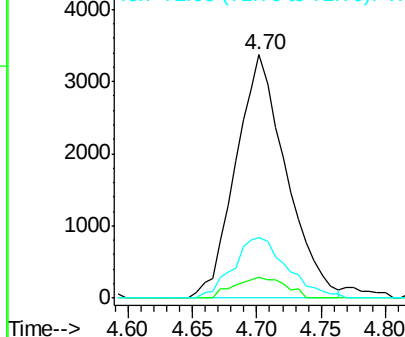


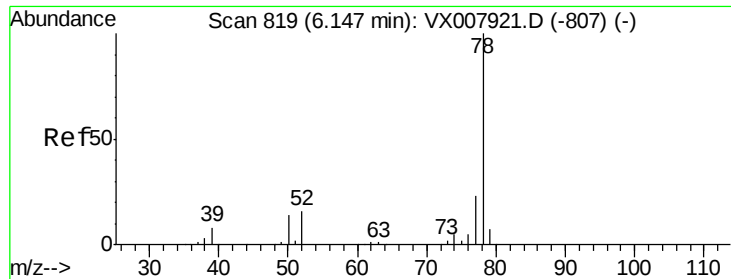
#30
 2-Butanone
 Concen: 3.922 ug/l
 RT: 4.70 min Scan# 582
 Delta R.T. 0.01 min
 Lab File: VX007966.D
 Acq: 11 Mar 2019 13:04

Tgt Ion: 43 Resp: 9137
 Ion Ratio Lower Upper
 43 100
 57 8.7 7.0 10.6
 72 26.6 21.5 32.3



Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 57.00 (56.70 to 57.70): VX0
 Ion 72.00 (71.70 to 72.70): VX0





#34

Benzene

Concen: 0.349 ug/l

RT: 6.14 min Scan# 818

Delta R.T. -0.01 min

Lab File: VX007966.D

Acq: 11 Mar 2019 13:04

Instrument :

MSVOA_X

ClientSampleId :

002M-35TH-AVE(MAR)

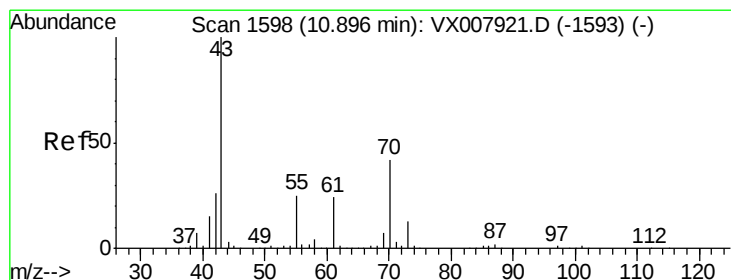
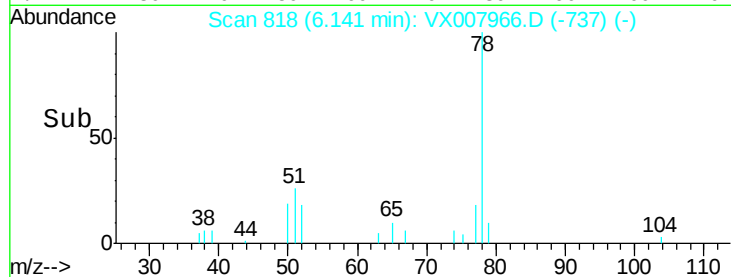
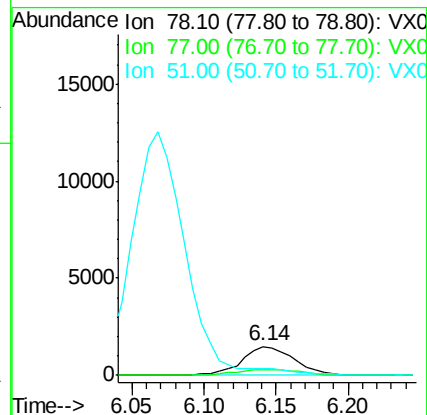
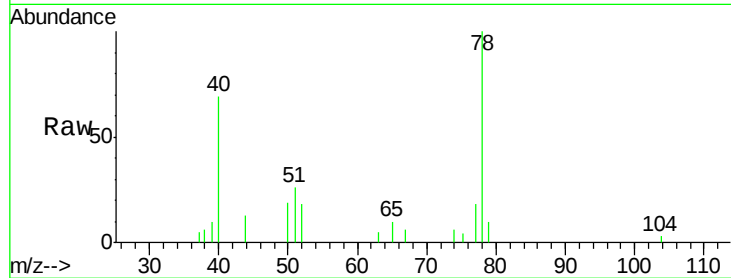
Tot Ion: 78 Resp: 3697

Ion Ratio Lower Upper

78 100

77 18.0 19.1 28.7#

51 25.5 10.8 16.2#



#47

n-ethyl Acetate

Concen: 0.262 ug/l

RT: 10.91 min Scan# 1601

Delta R.T. 0.02 min

Lab File: VX007966.D

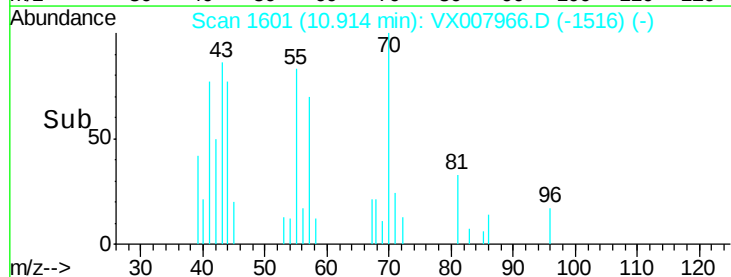
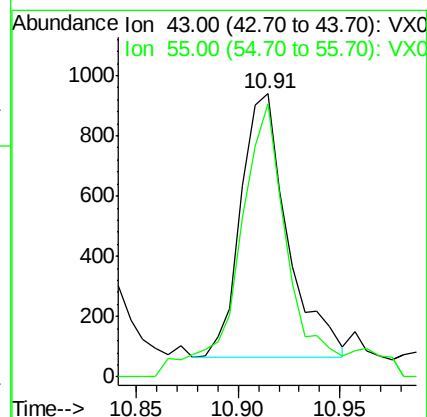
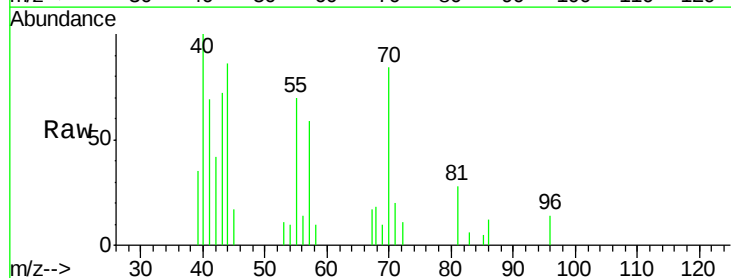
Acq: 11 Mar 2019 13:04

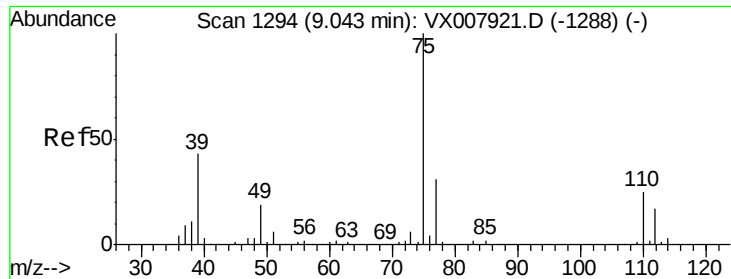
Tgt Ion: 43 Resp: 1397

Ion Ratio Lower Upper

43 100

55 108.9 20.8 31.2#

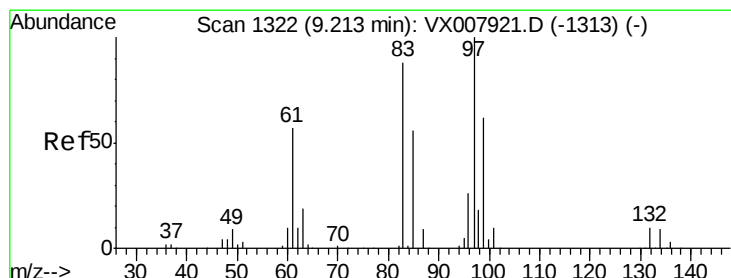
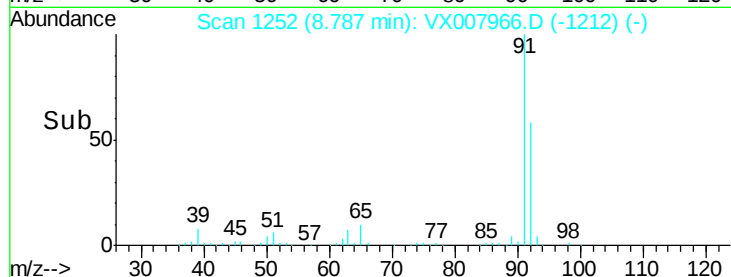
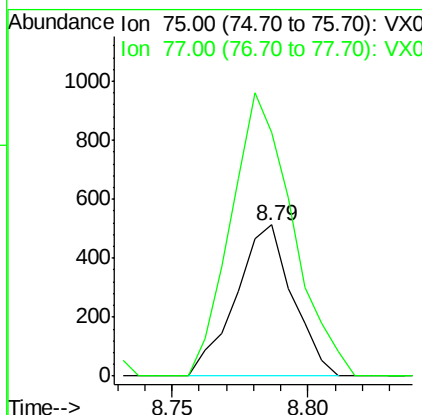
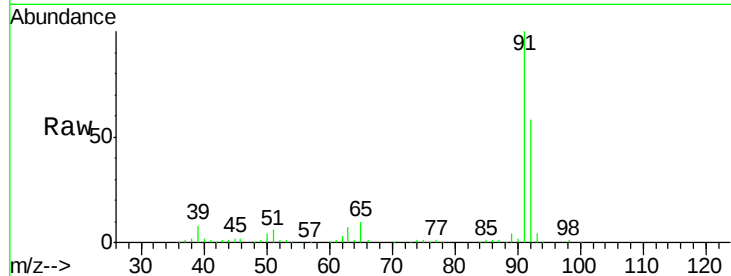




#48
t-1,3-Dichloropropene
Concen: 0.207 ug/l
RT: 8.79 min Scan# 1252
Delta R.T. -0.26 min
Lab File: VX007966.D
Acq: 11 Mar 2019 13:04

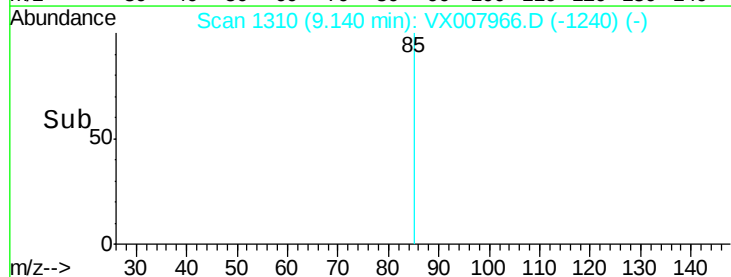
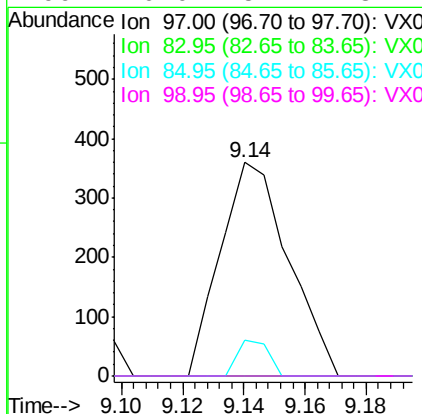
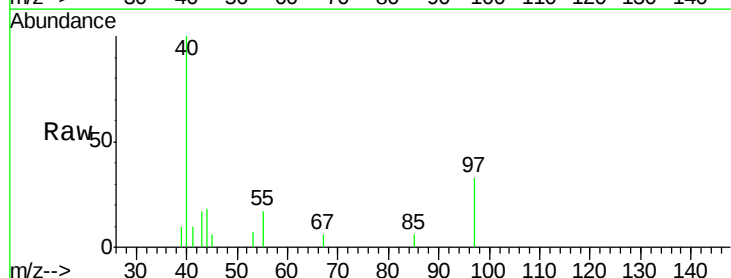
Instrument :
MSVOA_X
ClientSampleId :
002M-35TH-AVE(MAR)

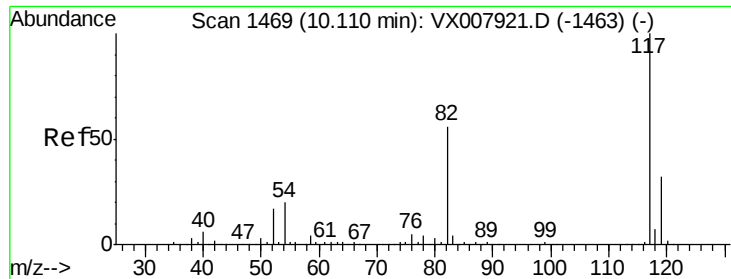
Tot Ion: 75 Resp: 743
Ion Ratio Lower Upper
75 100
77 160.8 24.5 36.7#



#50
1,1,2-Trichloroethane
Concen: 0.208 ug/l
RT: 9.14 min Scan# 1310
Delta R.T. -0.07 min
Lab File: VX007966.D
Acq: 11 Mar 2019 13:04

Tgt Ion: 97 Resp: 555
Ion Ratio Lower Upper
97 100
83 0.0 72.0 108.0#
85 16.9 45.0 67.6#
99 0.0 54.2 81.4#

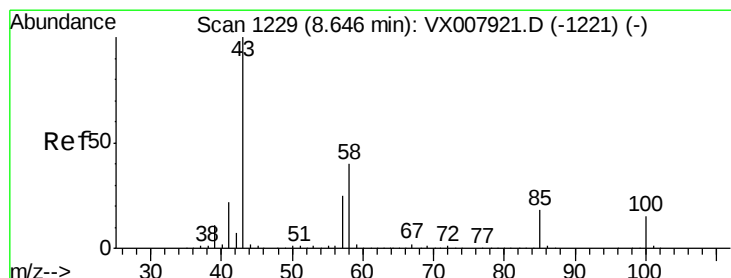
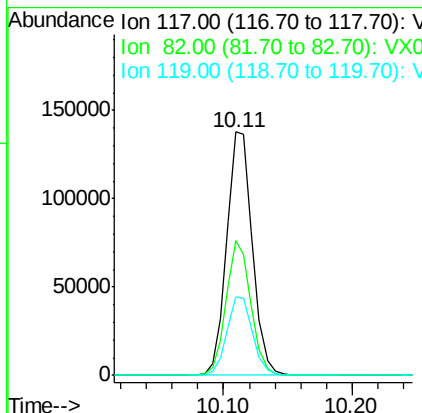
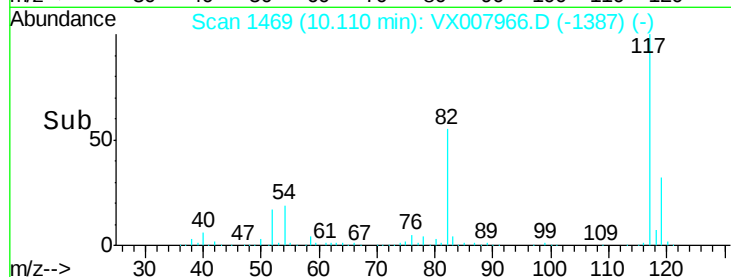
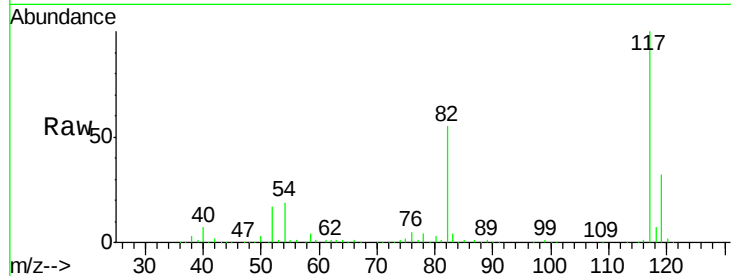




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX007966.D
Acq: 11 Mar 2019 13:04

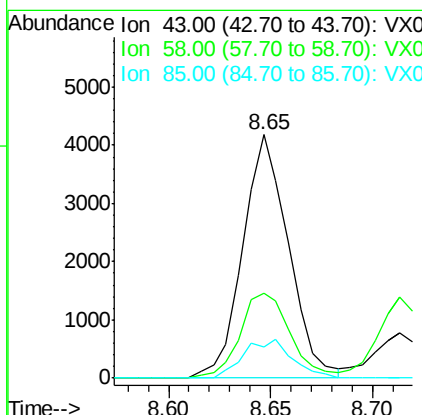
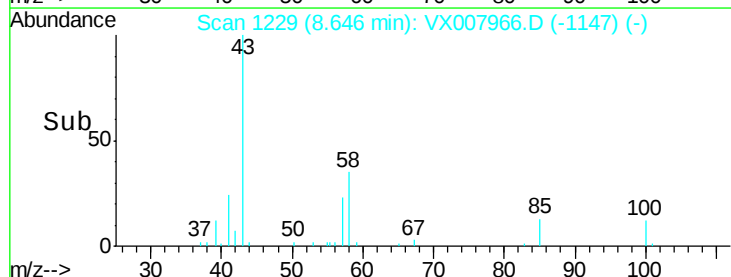
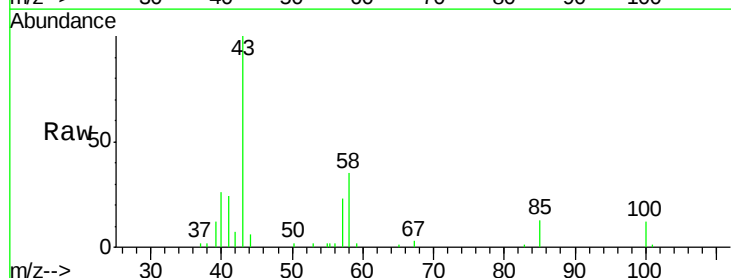
Instrument :
MSVOA_X
ClientSampleId :
002M-35TH-AVE(MAR)

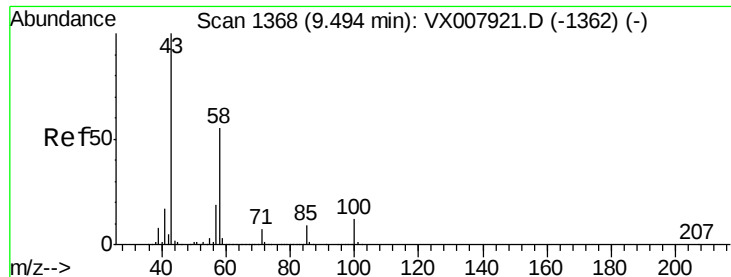
Tot Ion:117 Resp: 193519
Ion Ratio Lower Upper
117 100
82 53.1 40.4 60.6
119 32.4 25.8 38.6



#58
4-Methyl-2-Pentanone
Concen: 1.634 ug/l
RT: 8.65 min Scan# 1229
Delta R.T. 0.00 min
Lab File: VX007966.D
Acq: 11 Mar 2019 13:04

Tgt Ion: 43 Resp: 6512
Ion Ratio Lower Upper
43 100
58 38.3 31.4 47.0
85 17.0 15.0 22.6

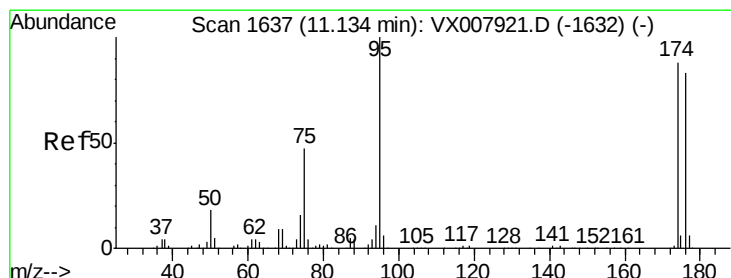
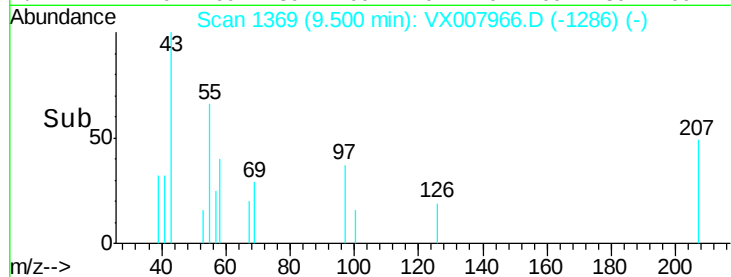
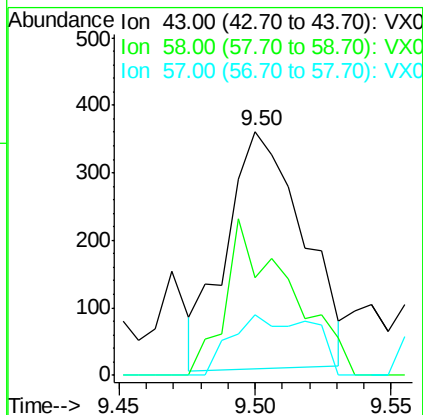
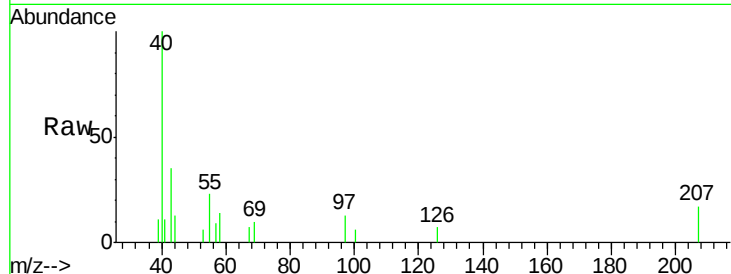




#59
2-Hexanone
Concen: 0.220 ug/l
RT: 9.50 min Scan# 1369
Delta R.T. 0.01 min
Lab File: VX007966.D
Acq: 11 Mar 2019 13:04

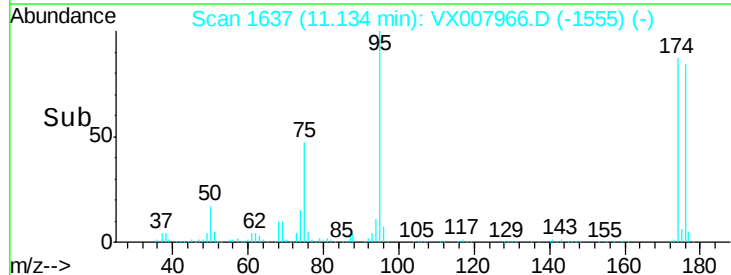
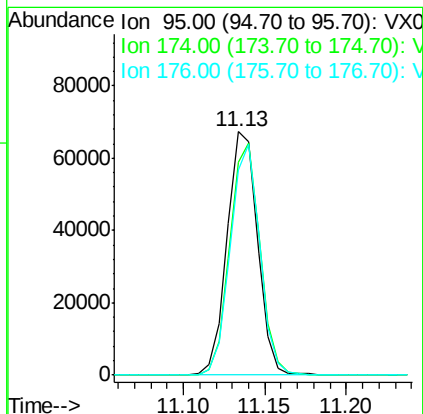
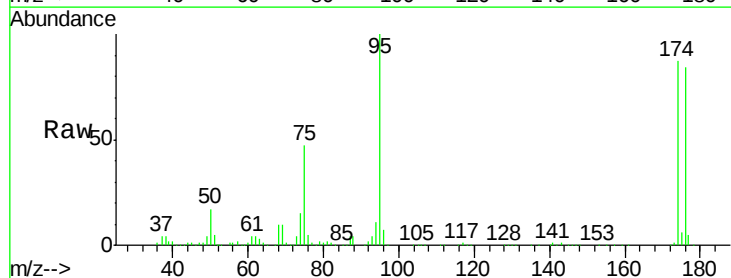
Instrument :
MSVOA_X
ClientSampleId :
002M-35TH-AVE(MAR)

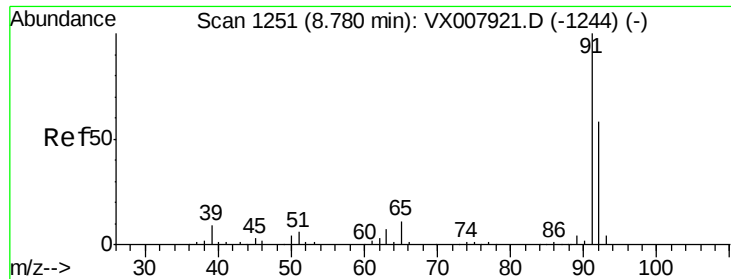
Tot Ion: 43 Resp: 691
Ion Ratio Lower Upper
43 100
58 26.0 43.9 65.9#
57 14.6 14.9 22.3#



#60
4-Bromofluorobenzene
Concen: 28.278 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX007966.D
Acq: 11 Mar 2019 13:04

Tgt Ion: 95 Resp: 87346
Ion Ratio Lower Upper
95 100
174 94.7 74.9 112.3
176 91.8 70.7 106.1





#62

Toluene

Concen: 10.838 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VX007966.D

Acq: 11 Mar 2019 13:04

Instrument :

MSVOA_X

ClientSampleId :

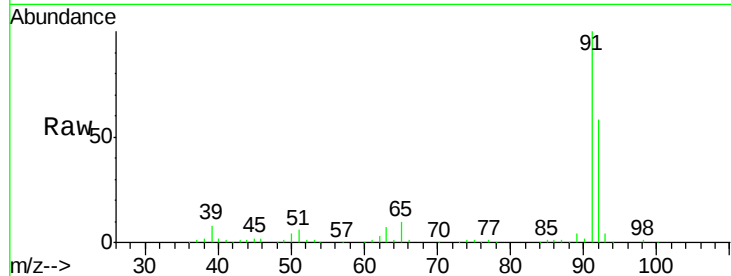
002M-35TH-AVE(MAR)

Tot Ion: 91 Resp: 122465

Ion Ratio Lower Upper

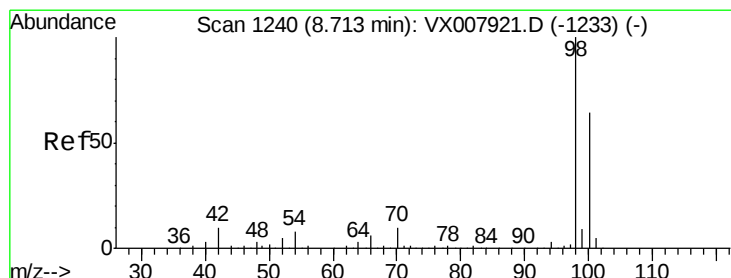
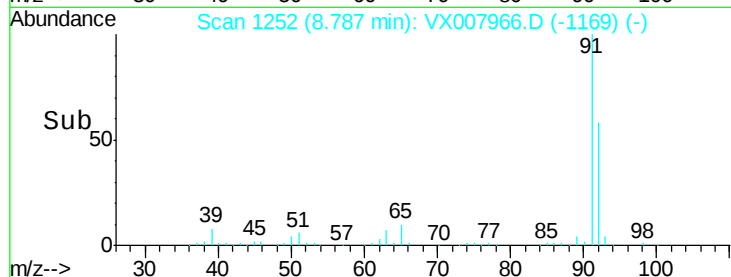
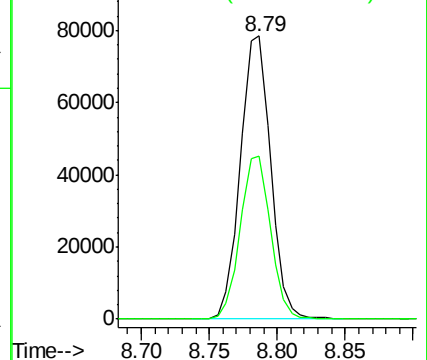
91 100

92 57.9 46.4 69.6



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0



#63

Toluene-d8

Concen: 29.146 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007966.D

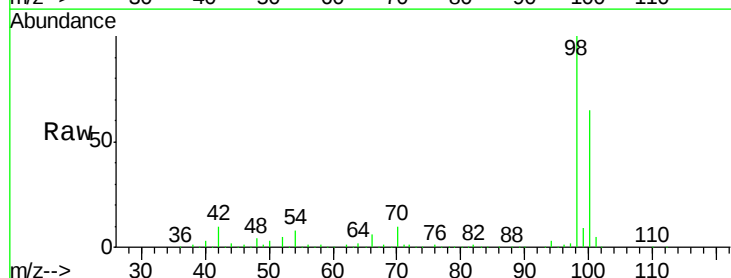
Acq: 11 Mar 2019 13:04

Tgt Ion: 98 Resp: 258122

Ion Ratio Lower Upper

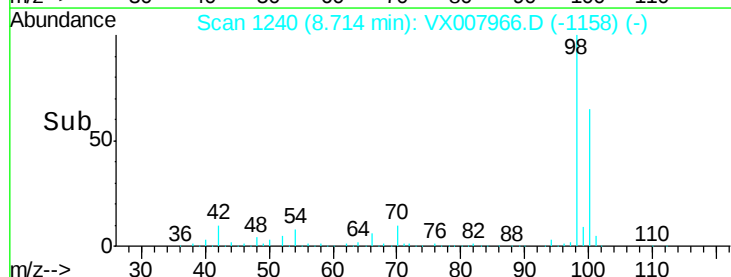
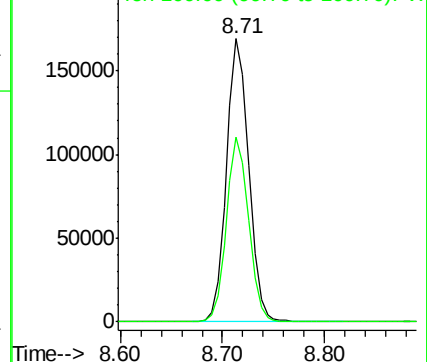
98 100

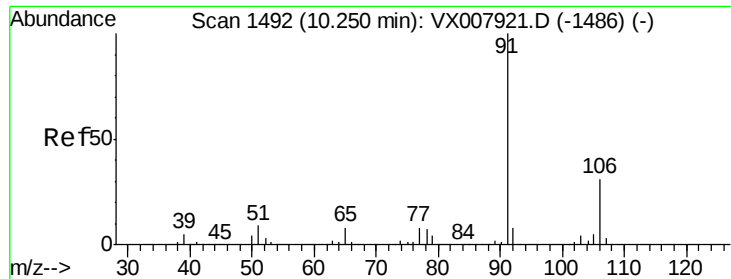
100 64.8 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#66

Ethyl Benzene

Concen: 0.264 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VX007966.D

Acq: 11 Mar 2019 13:04

Instrument :

MSVOA_X

ClientSampleId :

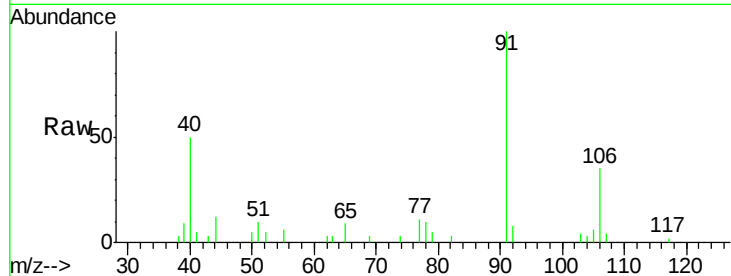
002M-35TH-AVE(MAR)

Tot Ion: 91 Resp: 3209

Ion Ratio Lower Upper

91 100

106 34.6 26.0 39.0



Abundance Ion 91.00 (90.70 to 91.70): VX007921.D (-1486) (-)

Ion 106.00 (105.70 to 106.70): VX007921.D (-1486) (-)

10.25

2500

2000

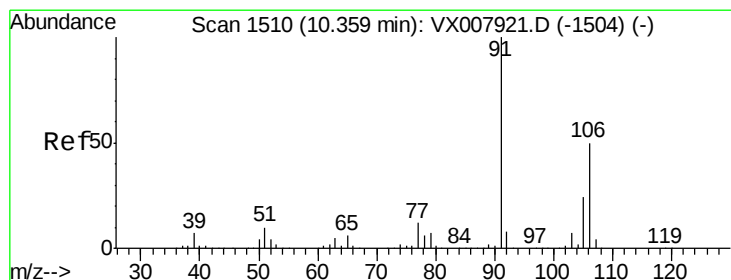
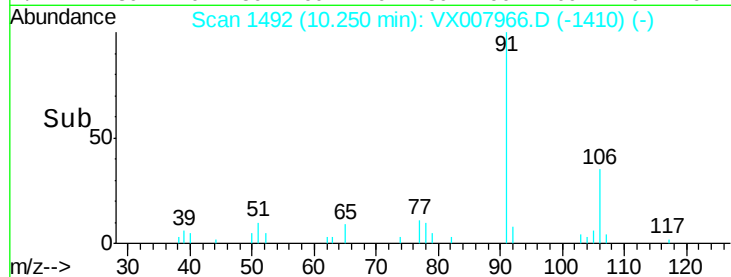
1500

1000

500

0

Time--> 10.20 10.25 10.30



#67

m/p-Xylenes

Concen: 0.886 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX007966.D

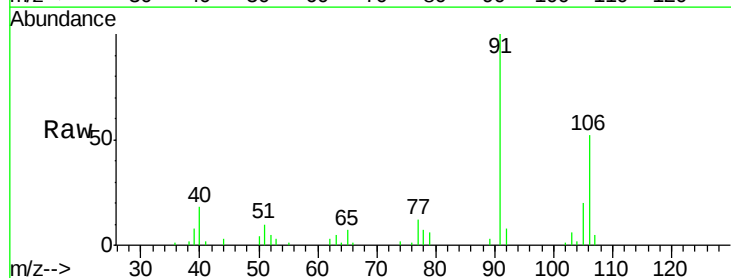
Acq: 11 Mar 2019 13:04

Tgt Ion: 106 Resp: 4125

Ion Ratio Lower Upper

106 100

91 194.2 157.0 235.4



Abundance Ion 106.00 (105.70 to 106.70): VX007921.D (-1504) (-)

Ion 91.00 (90.70 to 91.70): VX007921.D (-1504) (-)

10.36

6000

5000

4000

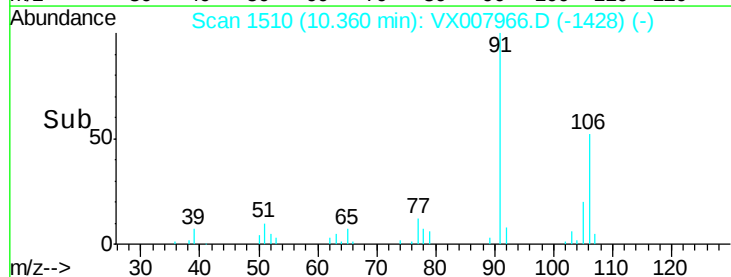
3000

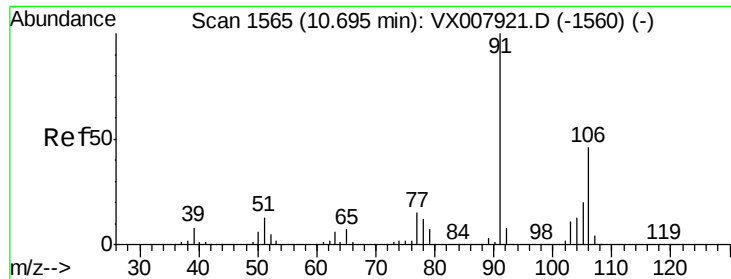
2000

1000

0

Time--> 10.30 10.35 10.40

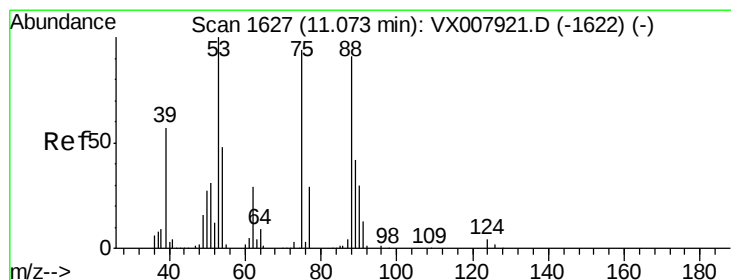
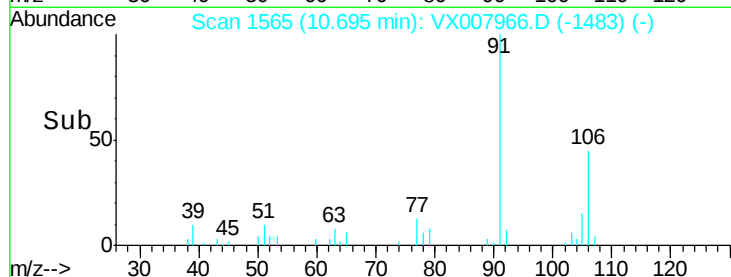
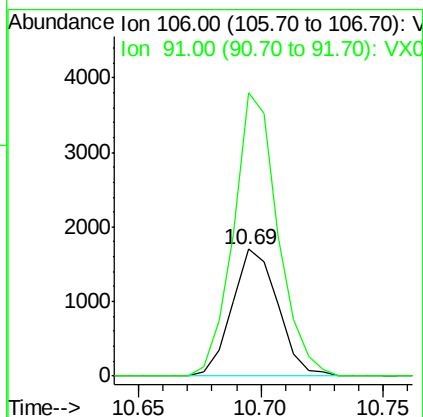
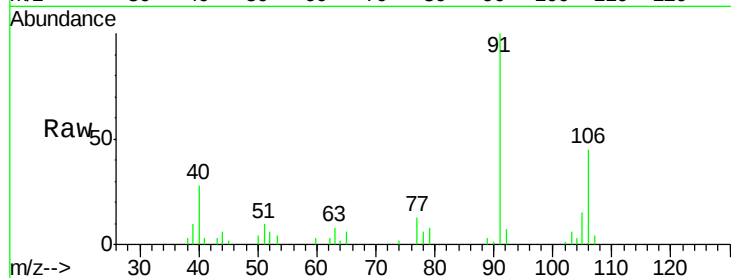




#68
o-Xylene
Concen: 0.489 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. 0.00 min
Lab File: VX007966.D
Acq: 11 Mar 2019 13:04

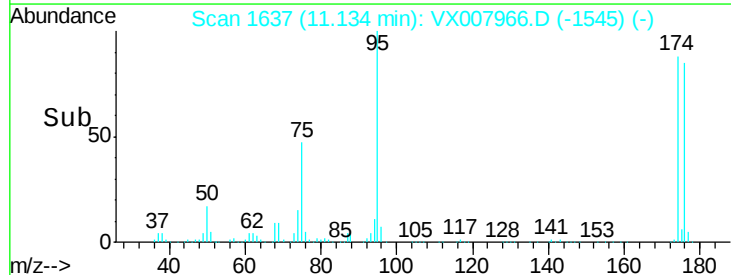
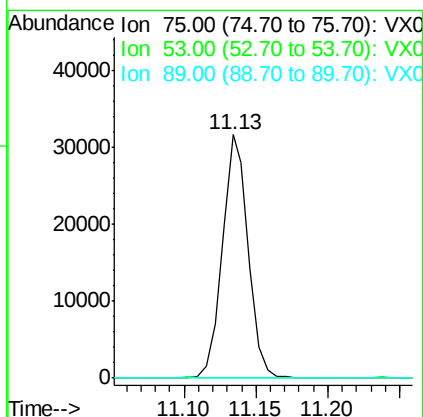
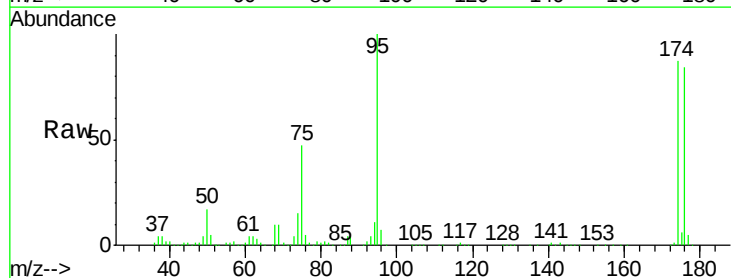
Instrument :
MSVOA_X
ClientSampleId :
002M-35TH-AVE(MAR)

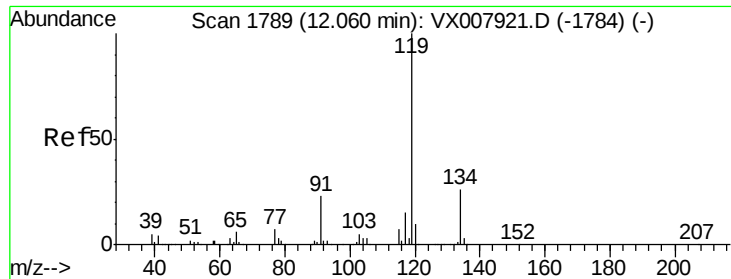
Tot Ion:106 Resp: 2208
Ion Ratio Lower Upper
106 100
91 217.1 104.4 313.2



#77
t-1,4-Dichloro-2-butene
Concen: 34.293 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX007966.D
Acq: 11 Mar 2019 13:04

Tgt Ion: 75 Resp: 39832
Ion Ratio Lower Upper
75 100
53 0.3 55.5 166.7#
89 0.0 24.4 73.2#

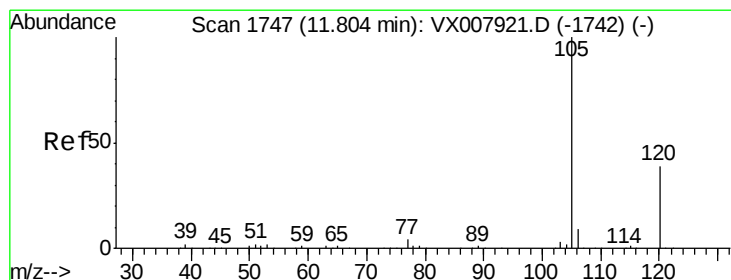
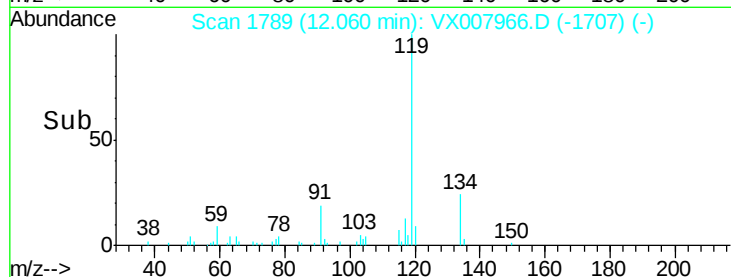
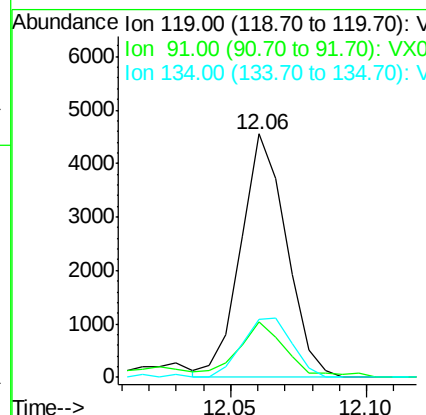
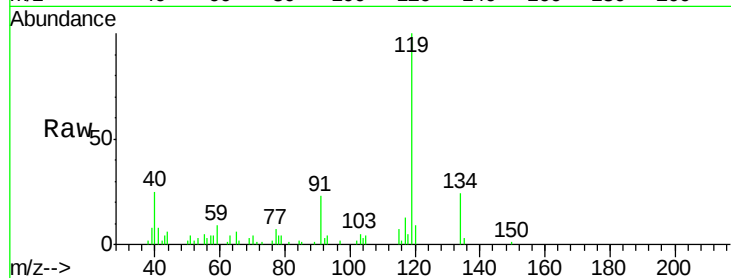




#79
tert-butylbenzene
Concen: 0.493 ug/l
RT: 12.06 min Scan# 1789
Delta R.T. 0.00 min
Lab File: VX007966.D
Acq: 11 Mar 2019 13:04

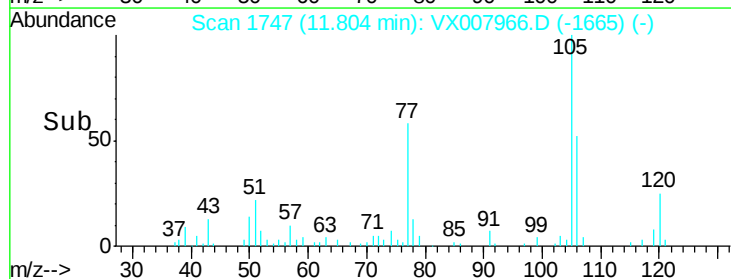
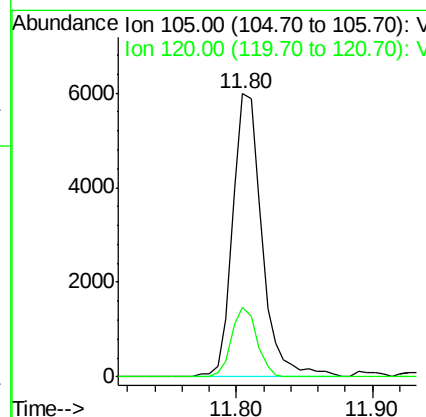
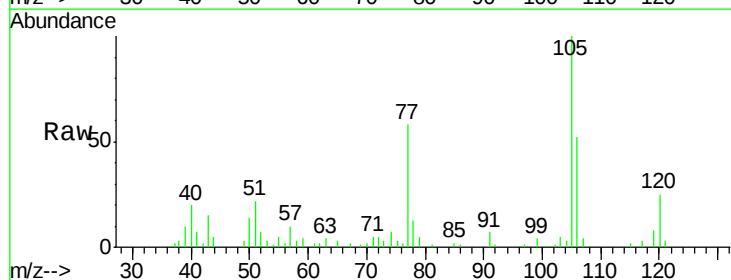
Instrument :
MSVOA_X
ClientSampleId :
002M-35TH-AVE(MAR)

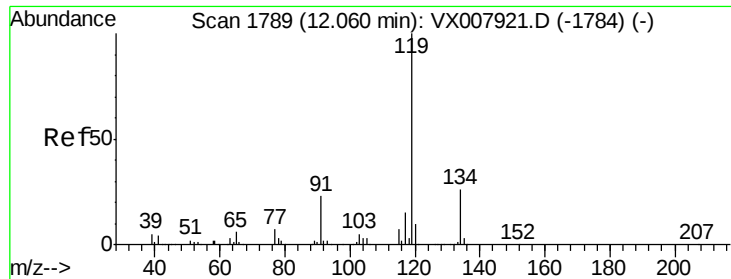
Tot Ion:119 Resp: 5298
Ion Ratio Lower Upper
119 100
91 23.2 0.0 45.0
134 26.5 0.0 55.4



#80
1,2,4-Trimethylbenzene
Concen: 0.883 ug/l
RT: 11.80 min Scan# 1747
Delta R.T. 0.00 min
Lab File: VX007966.D
Acq: 11 Mar 2019 13:04

Tgt Ion:105 Resp: 8965
Ion Ratio Lower Upper
105 100
120 21.2 0.0 94.0

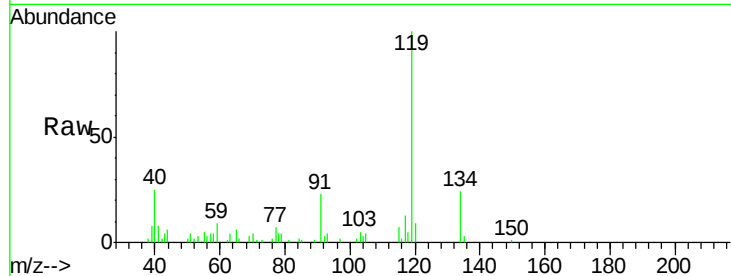




#82
 p-Isopropyltoluene
 Concen: 0.493 ug/l
 RT: 12.06 min Scan# 1789
 Delta R.T. 0.00 min
 Lab File: VX007966.D
 Acq: 11 Mar 2019 13:04

Instrument :
 MSVOA_X
 ClientSampleId :
 002M-35TH-AVE(MAR)

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.5	0.0	55.4
91	23.2	0.0	45.0



Abundance

Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

