

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081718\
 Data File : VX004141.D
 Acq On : 17 Aug 2018 19:16
 Operator : JC/MD
 Sample : J4523-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WC-1

Quant Time: Aug 20 09:54:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 13:27:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	257100	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	407891	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	374998	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	216209	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	187476	51.75	ug/l	0.00
Spiked Amount			Recovery	=	103.50%	
35) Dibromofluoromethane	5.51	113	159933	52.39	ug/l	0.00
Spiked Amount			Recovery	=	104.78%	
50) Toluene-d8	8.72	98	592513	47.87	ug/l	0.00
Spiked Amount			Recovery	=	95.74%	
62) 4-Bromofluorobenzene	11.14	95	206254	45.95	ug/l	0.00
Spiked Amount			Recovery	=	91.90%	

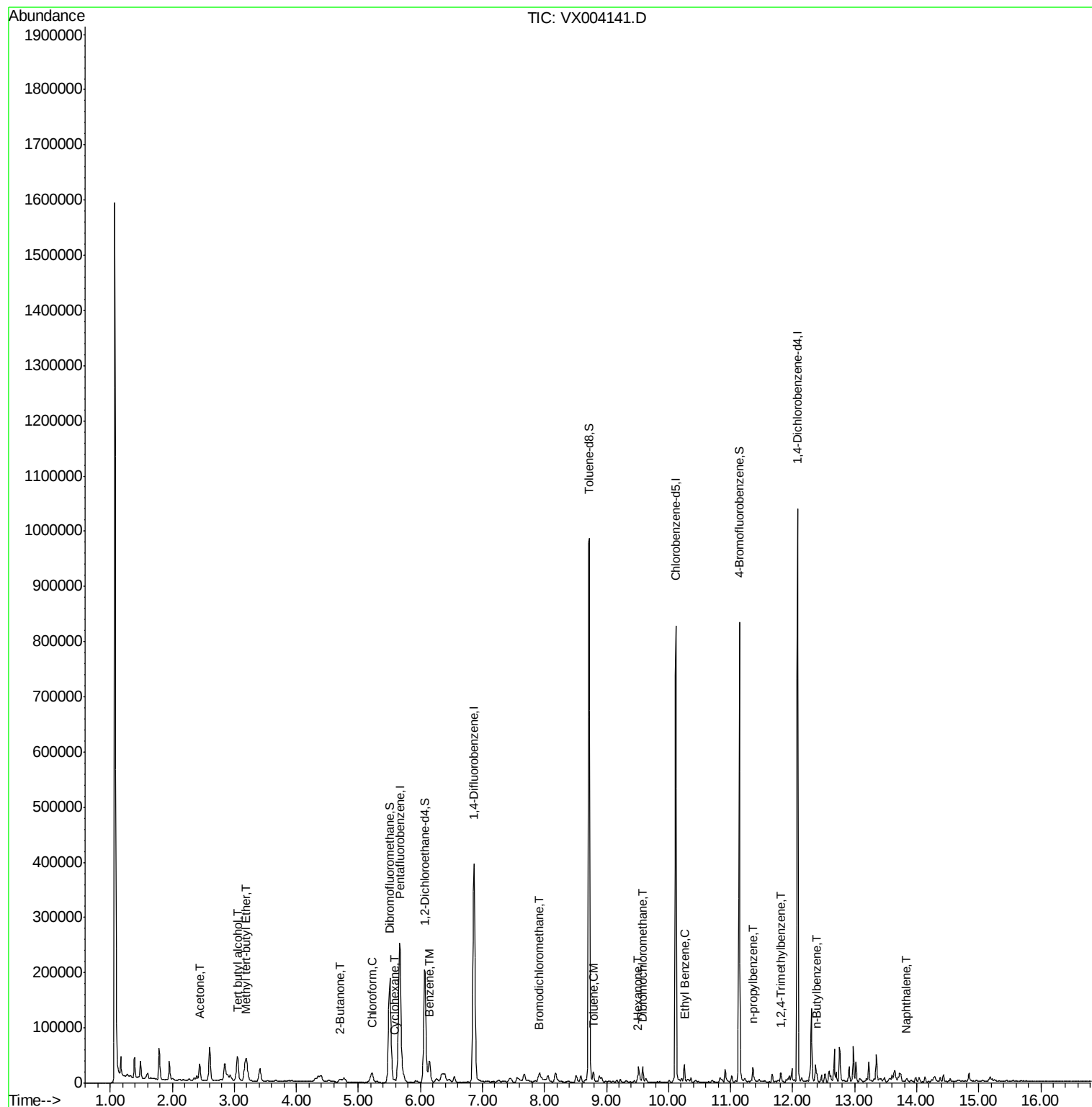
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.05	59	54507	74.72	ug/l	98
16) Acetone	2.44	43	32279	17.14	ug/l	99
19) Methyl tert-butyl Ether	3.20	73	35683	3.74	ug/l #	73
25) 2-Butanone	4.70	43	10774	3.52	ug/l	94
30) Chloroform	5.22	83	20205	3.62	ug/l	98
31) Cyclohexane	5.58	56	2607	0.52	ug/l #	95
40) Benzene	6.15	78	46350	3.33	ug/l	100
47) Bromodichloromethane	7.90	83	3457	0.78	ug/l	99
52) Toluene	8.79	92	6401	0.73	ug/l	97
59) 2-Hexanone	9.50	43	5420	1.18	ug/l	96
60) Dibromochloromethane	9.59	129	2402	0.69	ug/l	100
67) Ethyl Benzene	10.26	91	18956	1.24	ug/l	99
78) n-propylbenzene	11.36	91	13179	0.80	ug/l	99
84) 1,2,4-Trimethylbenzene	11.81	105	7062	0.57	ug/l	99
89) n-Butylbenzene	12.39	91	6723	0.67	ug/l #	57
95) Naphthalene	13.83	128	4325	1.42	ug/l #	92

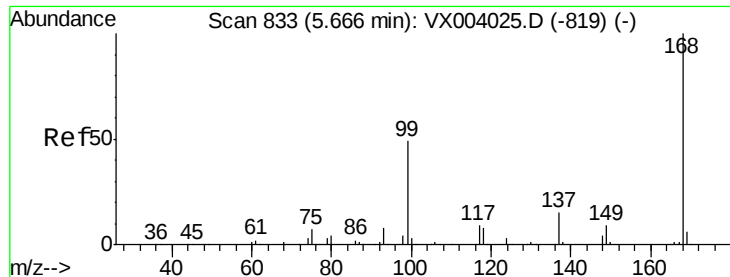
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX004141.D

Acq: 17 Aug 2018 19:16

Instrument :

MSVOA_X

ClientSampleId :

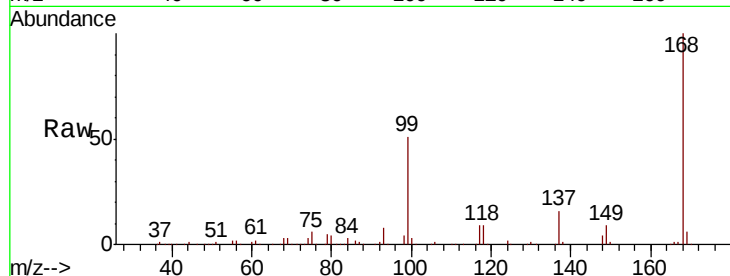
WC-1

Tot Ion:168 Resp: 257100

Ion Ratio Lower Upper

168 100

99 50.7 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

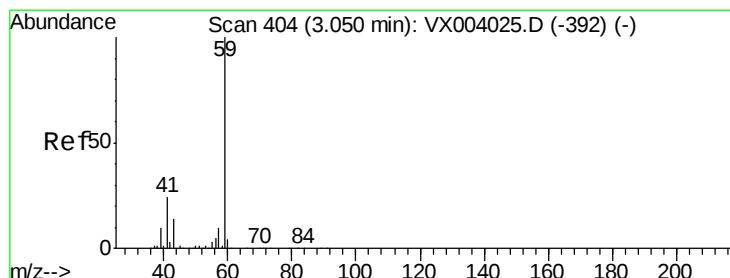
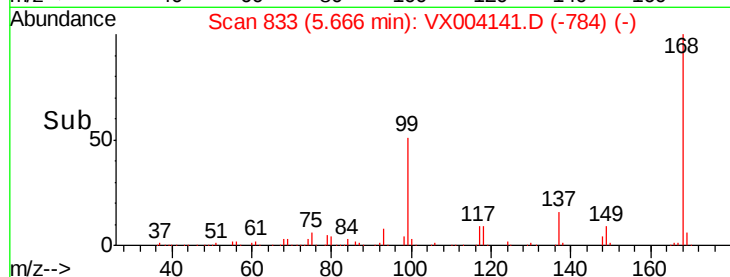
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 74.72 ug/l

RT: 3.05 min Scan# 404

Delta R.T. -0.00 min

Lab File: VX004141.D

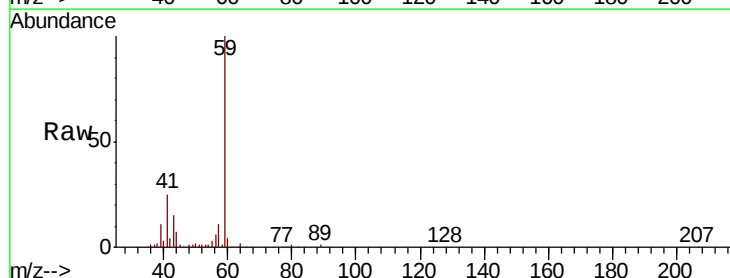
Acq: 17 Aug 2018 19:16

Tgt Ion: 59 Resp: 54507

Ion Ratio Lower Upper

59 100

57 11.0 8.1 12.1



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.05

25000

20000

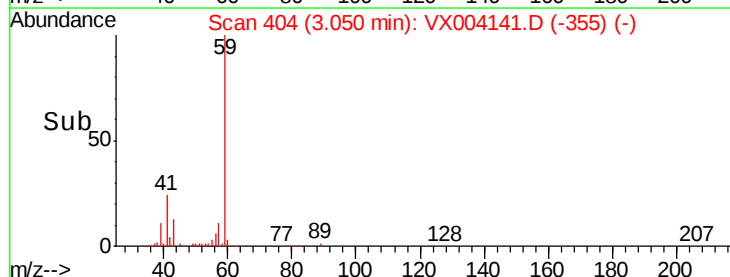
15000

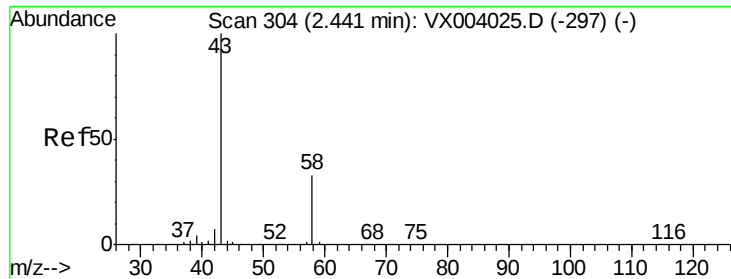
10000

5000

0

Time--> 2.90 3.00 3.10 3.20





#16

Acetone

Concen: 17.14 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.00 min

Lab File: VX004141.D

Acq: 17 Aug 2018 19:16

Instrument :

MSVOA_X

ClientSampled :

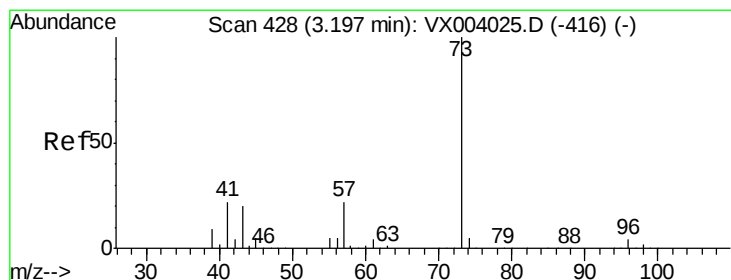
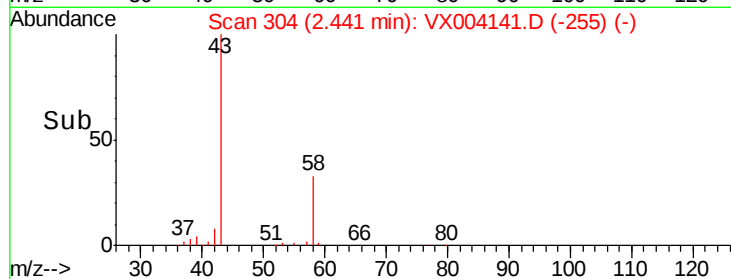
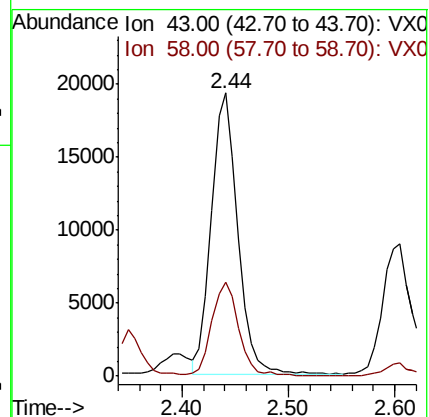
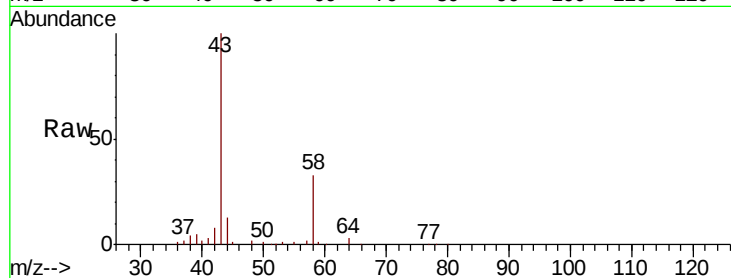
WC-1

Tot Ion: 43 Resp: 32279

Ion Ratio Lower Upper

43 100

58 33.4 26.4 39.6



#19

Methyl tert-butyl Ether

Concen: 3.74 ug/l

RT: 3.20 min Scan# 428

Delta R.T. -0.00 min

Lab File: VX004141.D

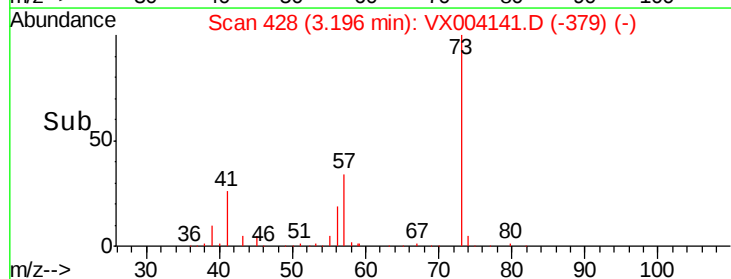
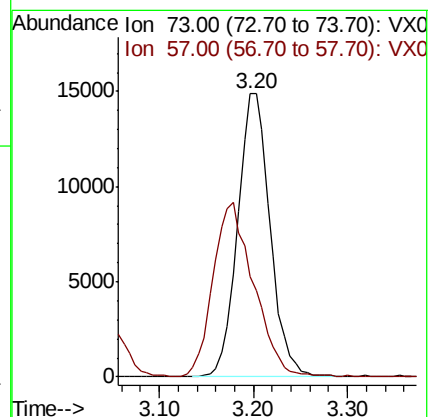
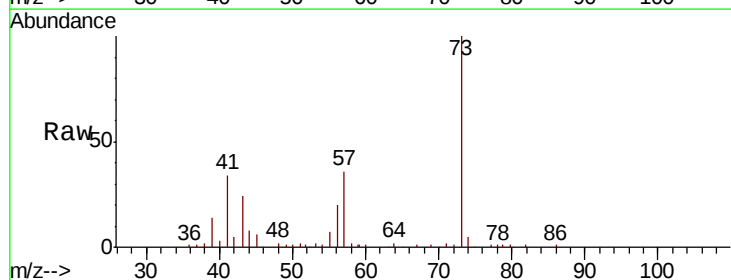
Acq: 17 Aug 2018 19:16

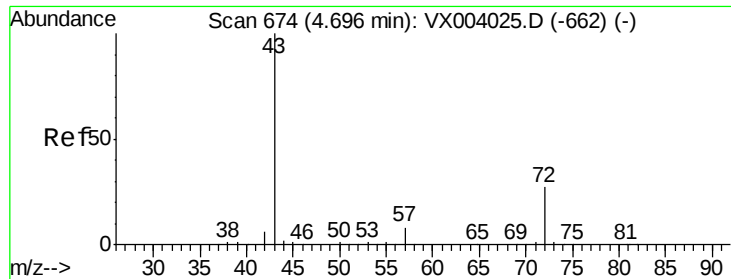
Tgt Ion: 73 Resp: 35683

Ion Ratio Lower Upper

73 100

57 35.6 18.0 27.0#





#25

2-Butanone

Concen: 3.52 ug/l

RT: 4.70 min Scan# 674

Delta R.T. -0.00 min

Lab File: VX004141.D

Acq: 17 Aug 2018 19:16

Instrument :

MSVOA_X

ClientSampleId :

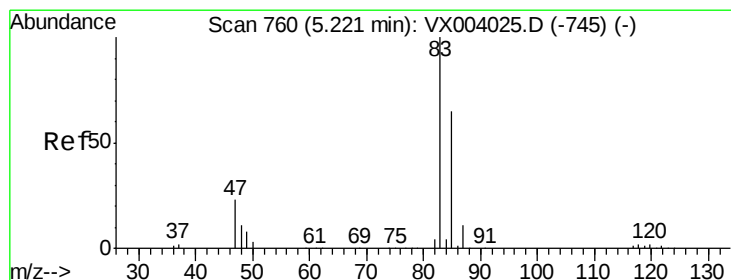
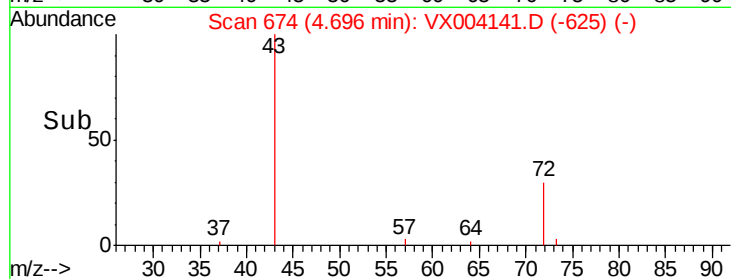
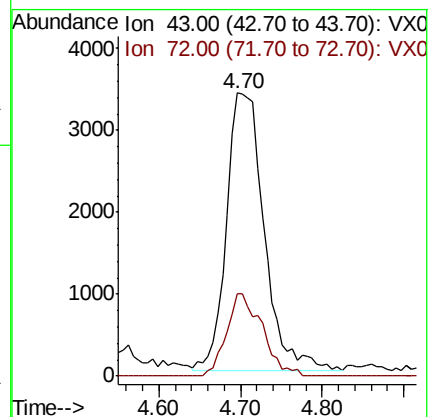
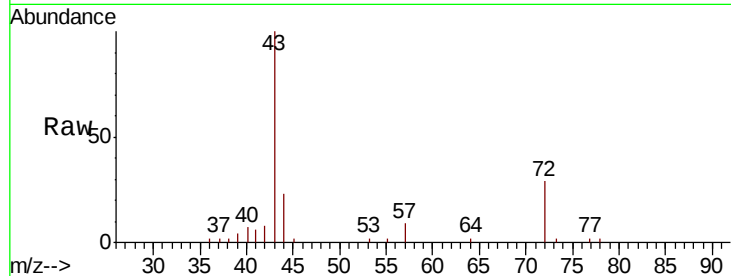
WC-1

Tot Ion: 43 Resp: 10774

Ion Ratio Lower Upper

43 100

72 29.6 21.4 32.0



#30

Chloroform

Concen: 3.62 ug/l

RT: 5.22 min Scan# 760

Delta R.T. -0.00 min

Lab File: VX004141.D

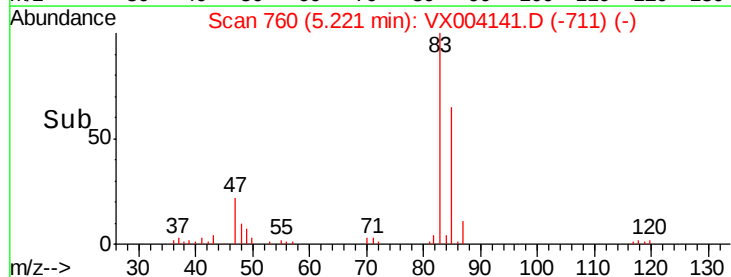
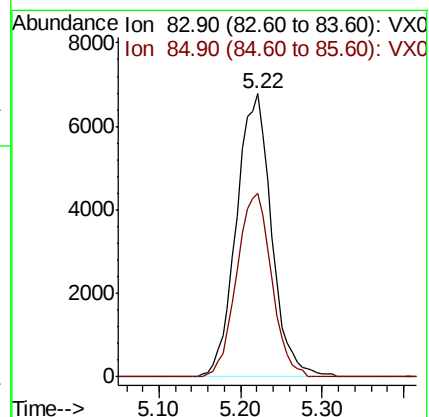
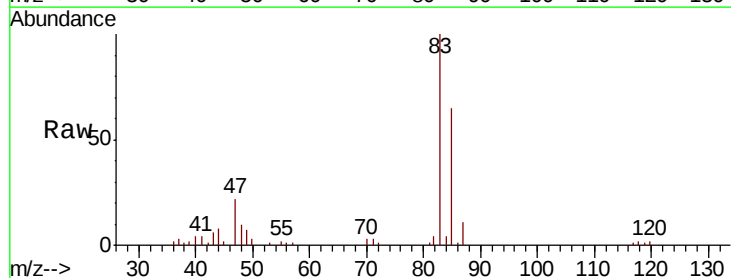
Acq: 17 Aug 2018 19:16

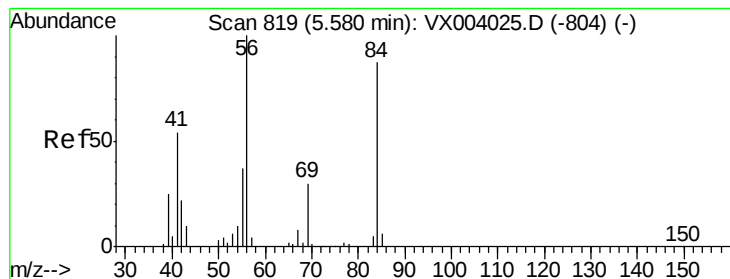
Tgt Ion: 83 Resp: 20205

Ion Ratio Lower Upper

83 100

85 64.9 50.7 76.1





#31

Cyclohexane

Concen: 0.52 ug/l

RT: 5.58 min Scan# 819

Delta R.T. -0.00 min

Lab File: VX004141.D

Acq: 17 Aug 2018 19:16

Instrument :

MSVOA_X

ClientSampleId :

WC-1

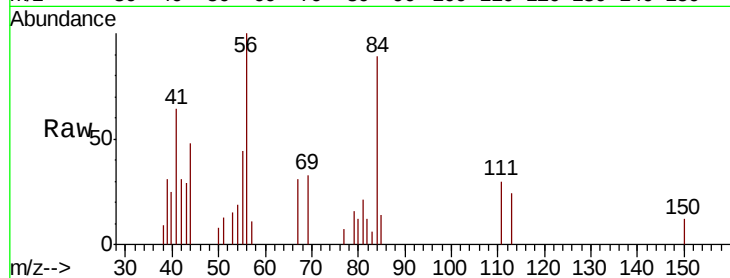
Tot Ion: 56 Resp: 2607

Ion Ratio Lower Upper

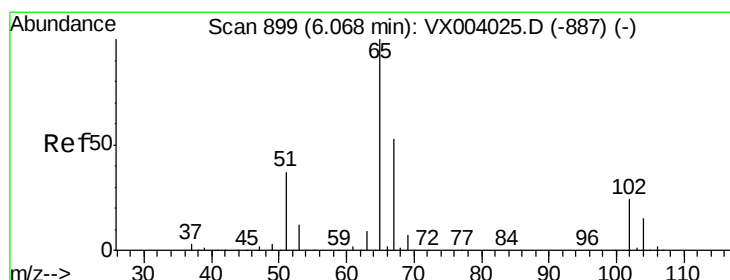
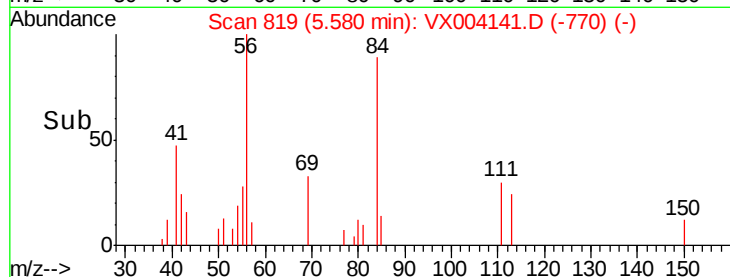
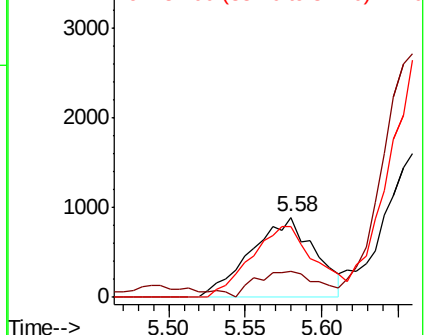
56 100

69 21.6 24.9 37.3#

84 88.7 71.7 107.5



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 51.75 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.00 min

Lab File: VX004141.D

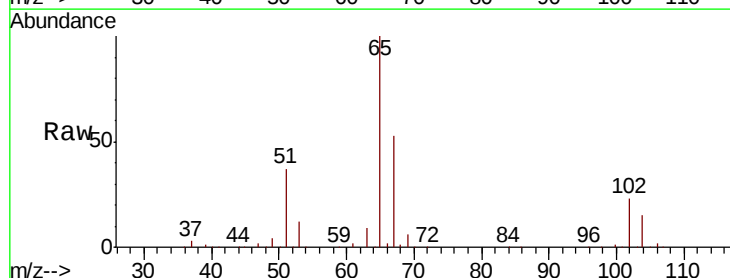
Acq: 17 Aug 2018 19:16

Tgt Ion: 65 Resp: 187476

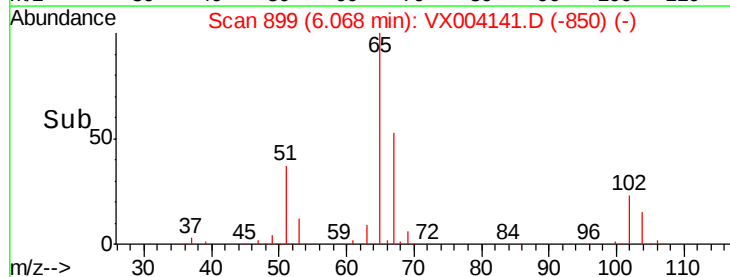
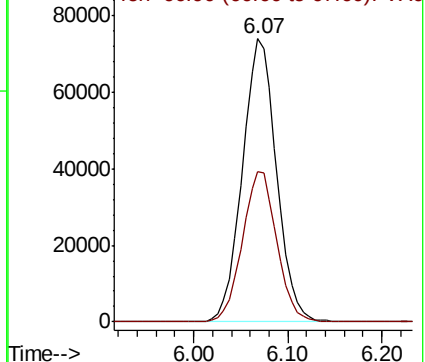
Ion Ratio Lower Upper

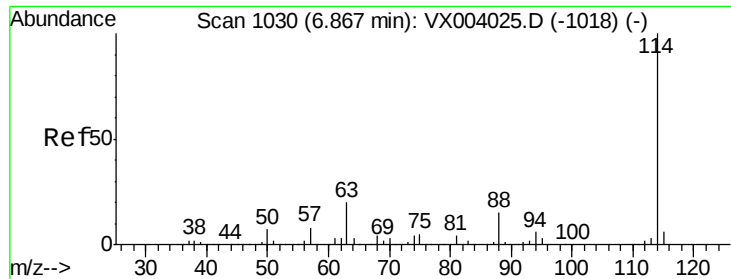
65 100

67 53.5 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

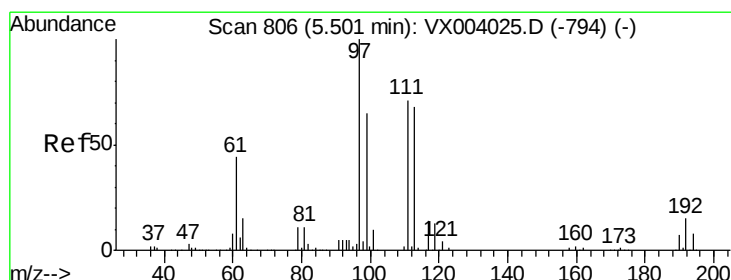
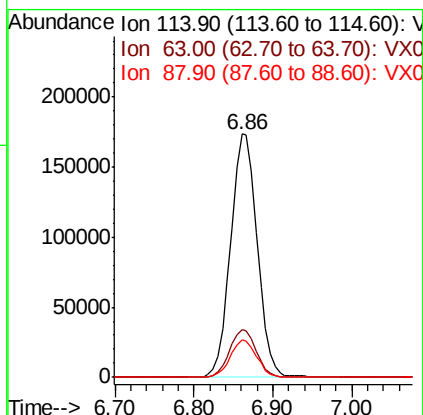
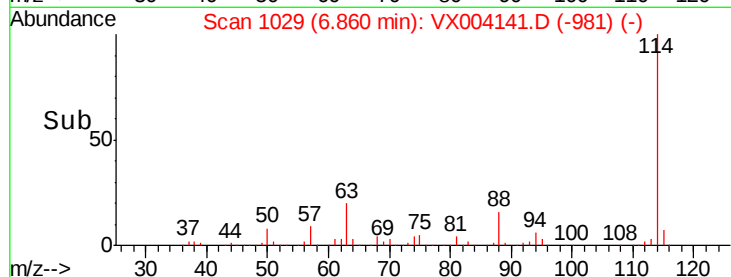
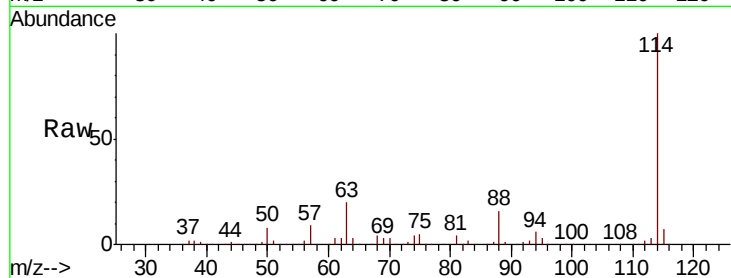




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. -0.01 min
 Lab File: VX004141.D
 Acq: 17 Aug 2018 19:16

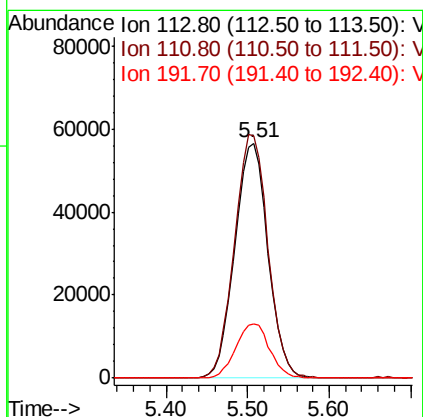
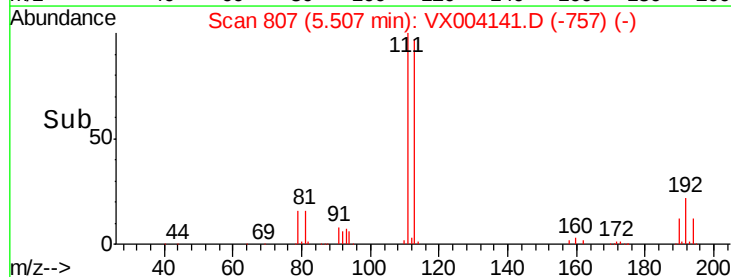
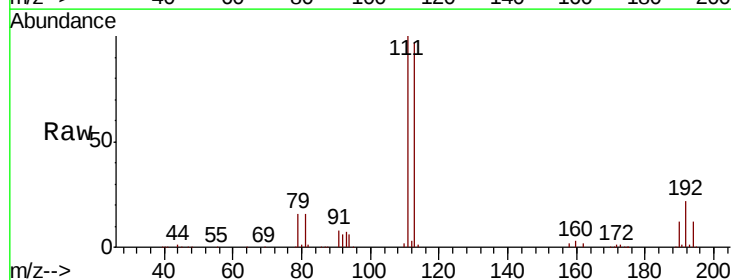
Instrument :
 MSVOA_X
 ClientSampleId :
 WC-1

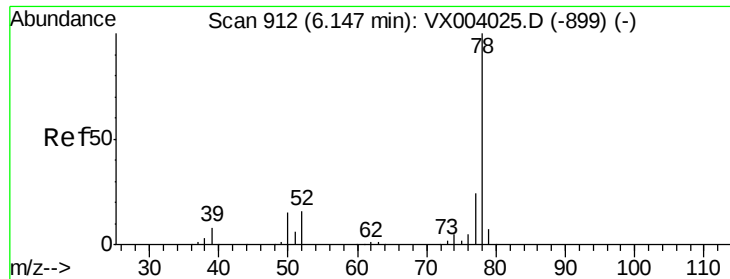
Tot Ion:114 Resp: 407891
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 39.0
 88 15.6 0.0 32.0



#35
 Dibromofluoromethane
 Concen: 52.39 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.01 min
 Lab File: VX004141.D
 Acq: 17 Aug 2018 19:16

Tgt Ion:113 Resp: 159933
 Ion Ratio Lower Upper
 113 100
 111 104.4 82.0 123.0
 192 23.6 19.0 28.4





#40

Benzene

Concen: 3.33 ug/l

RT: 6.15 min Scan# 912

Delta R.T. -0.00 min

Lab File: VX004141.D

Acq: 17 Aug 2018 19:16

Instrument :

MSVOA_X

ClientSampleId :

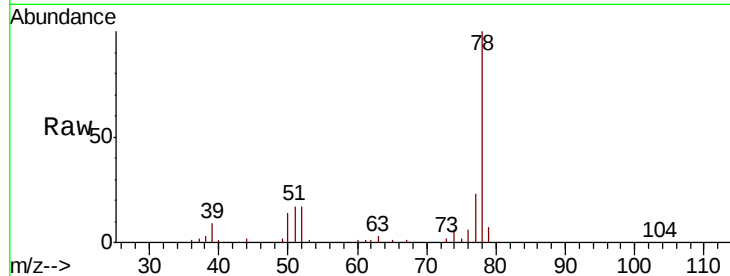
WC-1

Tot Ion: 78 Resp: 46350

Ion Ratio Lower Upper

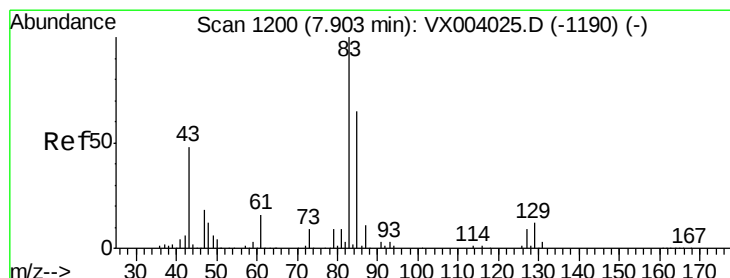
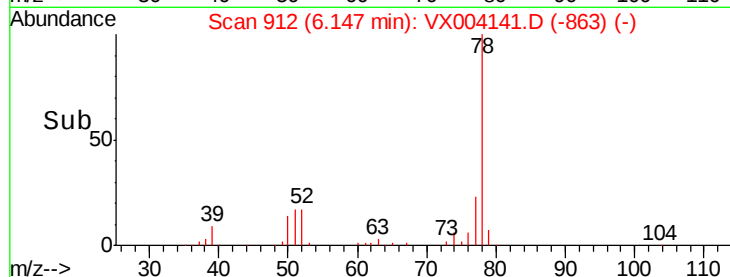
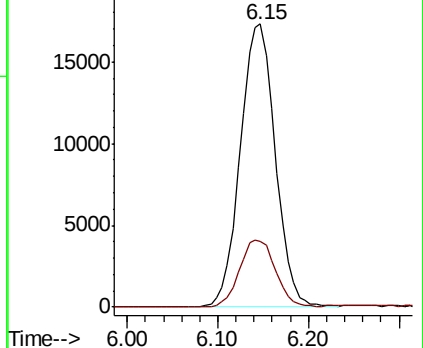
78 100

77 23.5 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#47

Bromodichloromethane

Concen: 0.78 ug/l

RT: 7.90 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VX004141.D

Acq: 17 Aug 2018 19:16

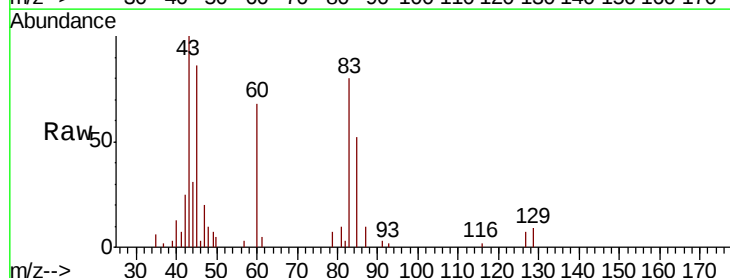
Tgt Ion: 83 Resp: 3457

Ion Ratio Lower Upper

83 100

85 64.5 51.2 76.8

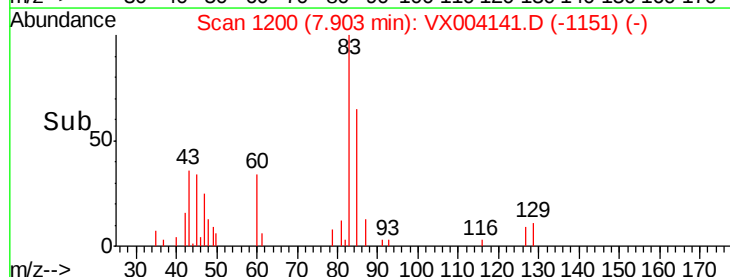
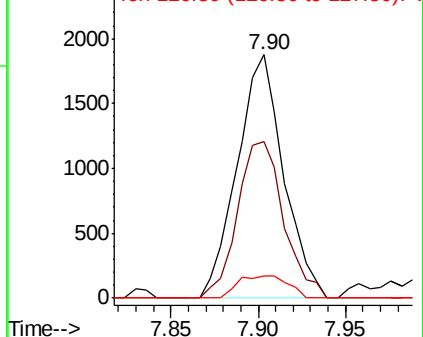
127 9.3 7.2 10.8

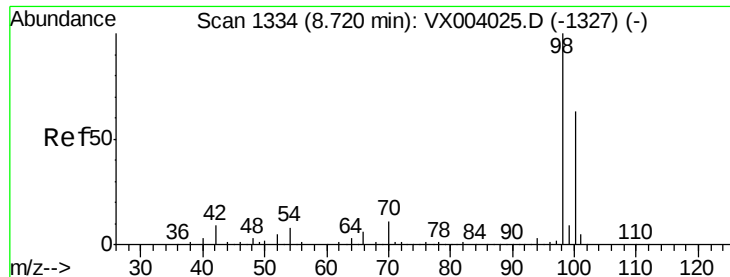


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V





#50

Toluene-d8

Concen: 47.87 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX004141.D

Acq: 17 Aug 2018 19:16

Instrument :

MSVOA_X

ClientSampled :

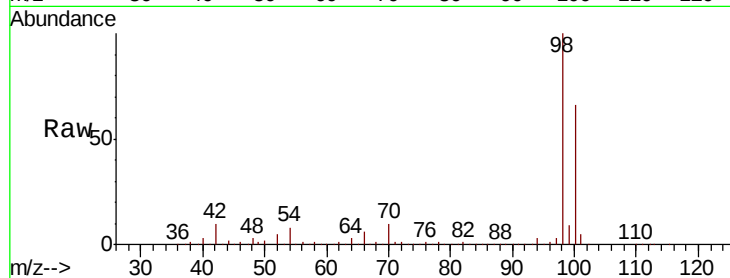
WC-1

Tot Ion: 98 Resp: 592513

Ion Ratio Lower Upper

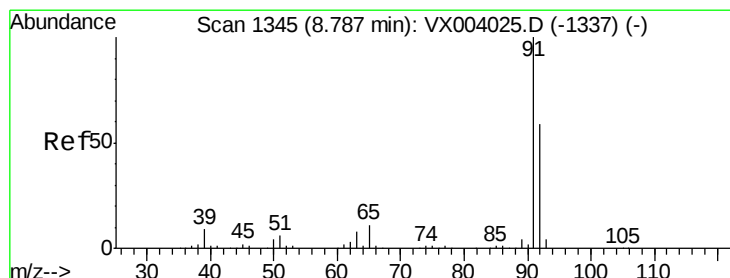
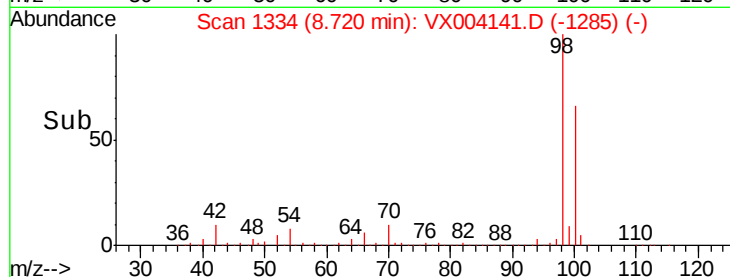
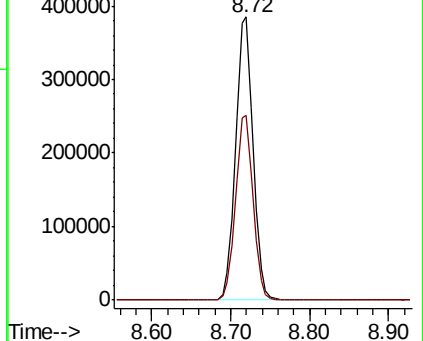
98 100

100 65.6 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#52

Toluene

Concen: 0.73 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. -0.00 min

Lab File: VX004141.D

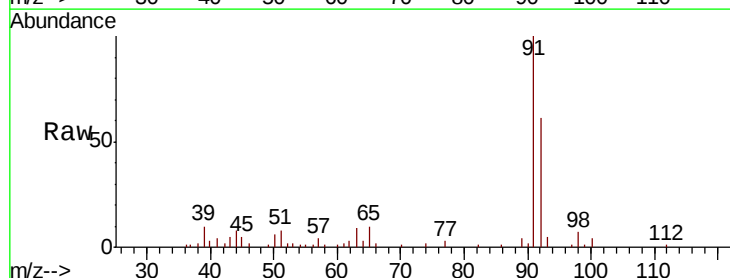
Acq: 17 Aug 2018 19:16

Tgt Ion: 92 Resp: 6401

Ion Ratio Lower Upper

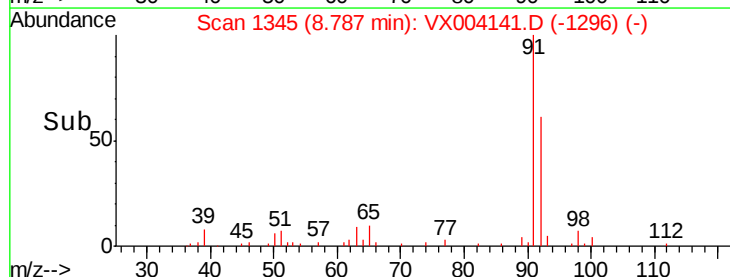
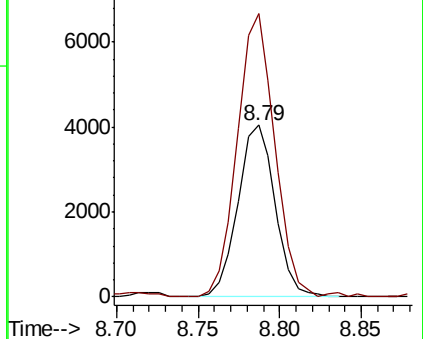
92 100

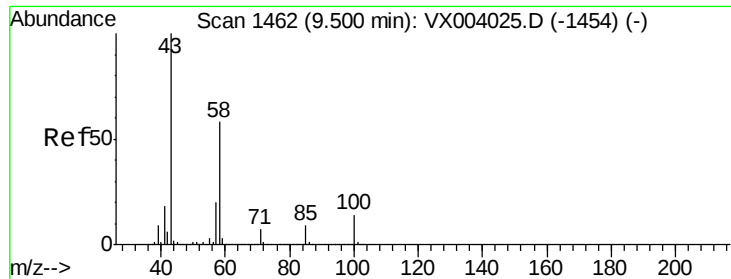
91 165.8 136.1 204.1



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

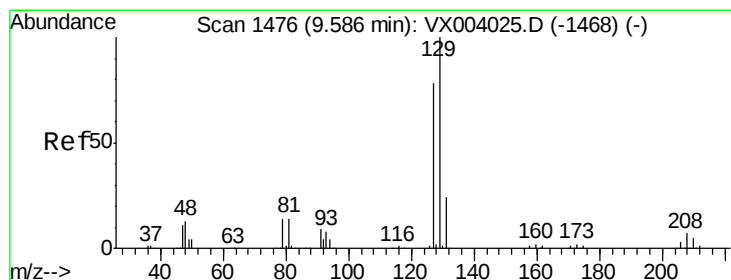
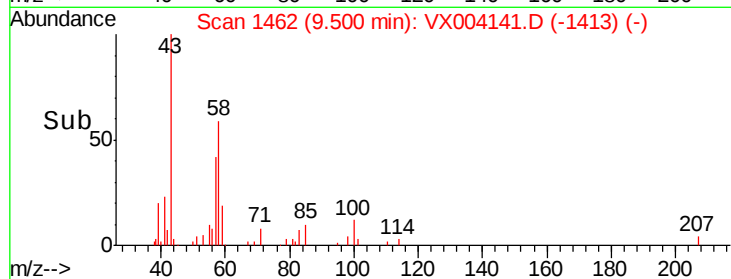
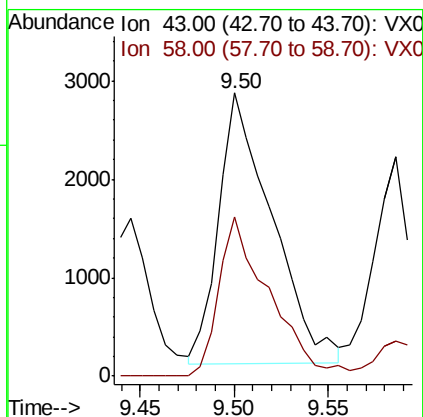
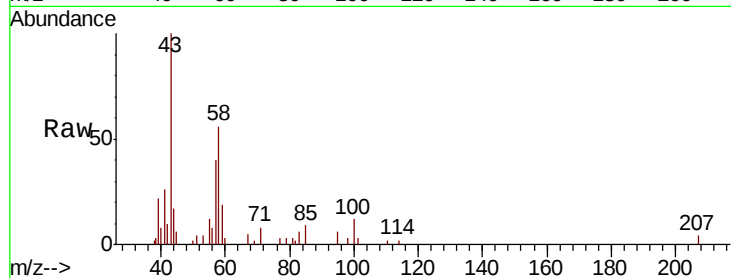




#59
2-Hexanone
Concen: 1.18 ug/l
RT: 9.50 min Scan# 1462
Delta R.T. -0.00 min
Lab File: VX004141.D
Acq: 17 Aug 2018 19:16

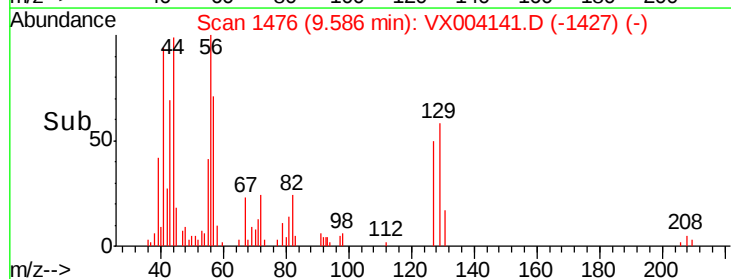
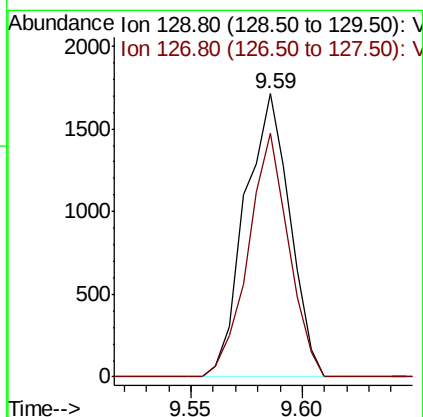
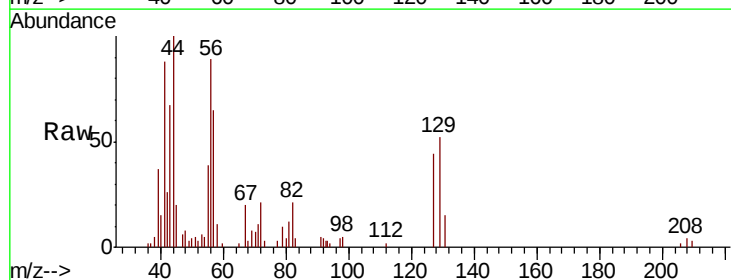
Instrument :
MSVOA_X
ClientSampleId :
WC-1

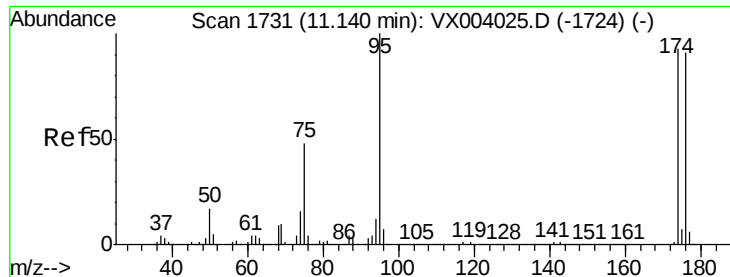
Tot Ion: 43 Resp: 5420
Ion Ratio Lower Upper
43 100
58 55.1 29.0 87.0



#60
Dibromochloromethane
Concen: 0.69 ug/l
RT: 9.59 min Scan# 1476
Delta R.T. -0.00 min
Lab File: VX004141.D
Acq: 17 Aug 2018 19:16

Tgt Ion: 129 Resp: 2402
Ion Ratio Lower Upper
129 100
127 77.9 38.8 116.3

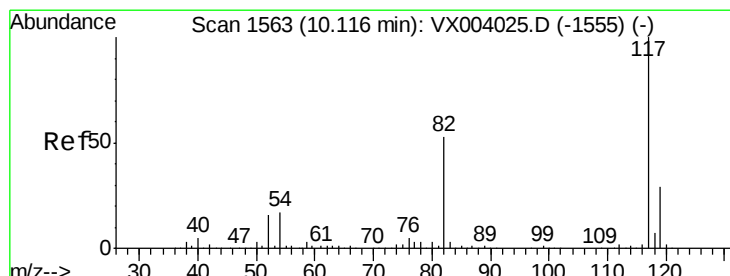
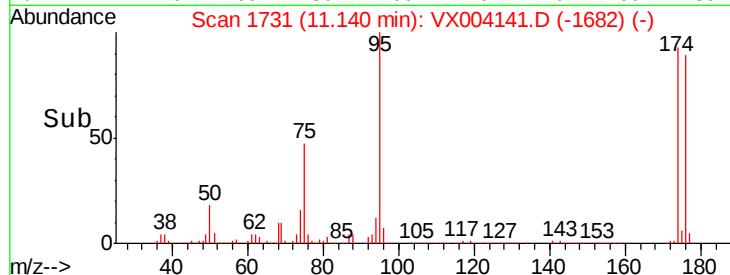
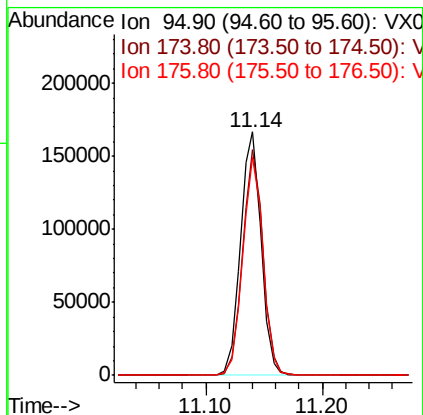
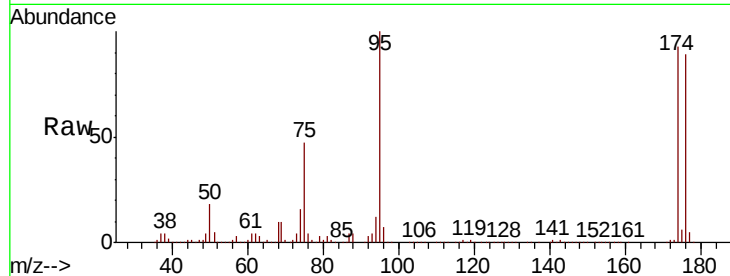




#62
4-Bromofluorobenzene
Concen: 45.95 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX004141.D
Acq: 17 Aug 2018 19:16

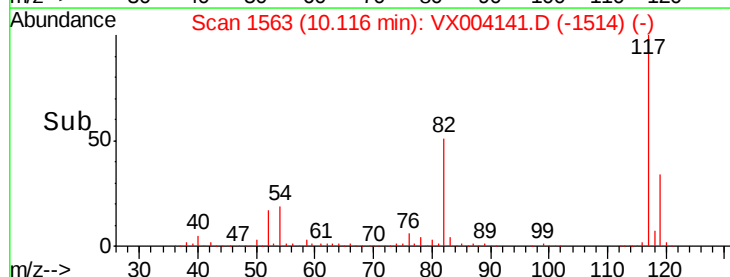
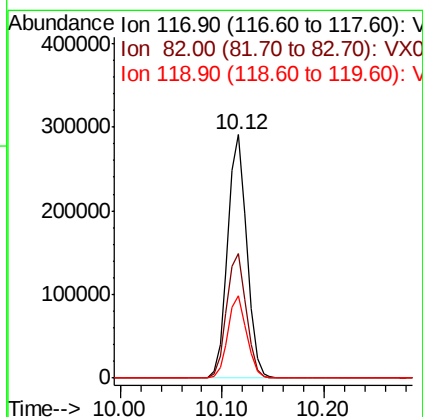
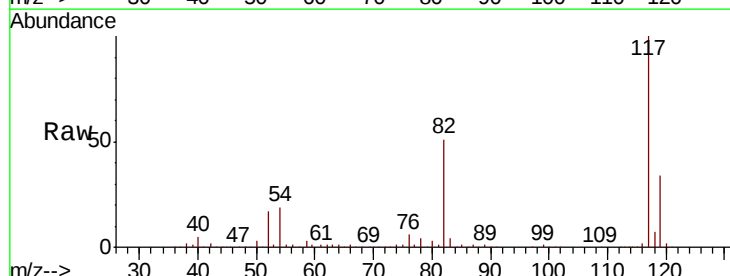
Instrument :
MSVOA_X
ClientSampleId :
WC-1

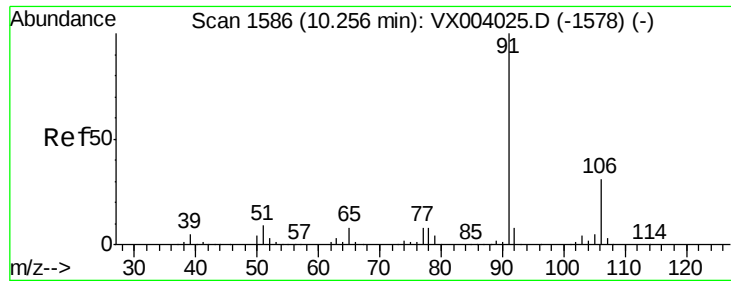
Tot Ion: 95 Resp: 206254
Ion Ratio Lower Upper
95 100
174 91.5 0.0 182.8
176 88.0 0.0 179.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004141.D
Acq: 17 Aug 2018 19:16

Tgt Ion: 117 Resp: 374998
Ion Ratio Lower Upper
117 100
82 51.1 45.4 68.0
119 33.7 26.6 40.0

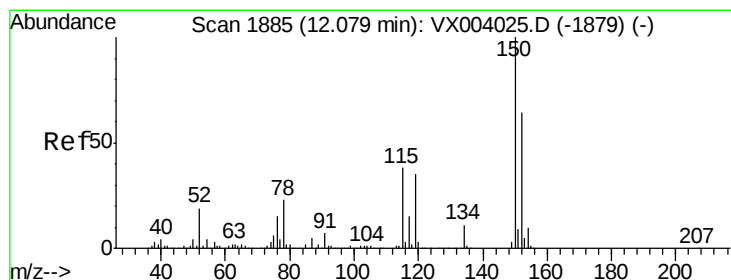
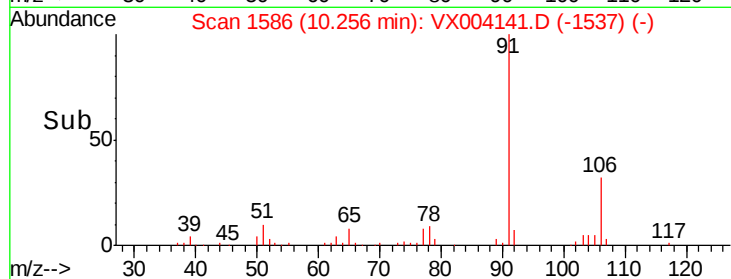
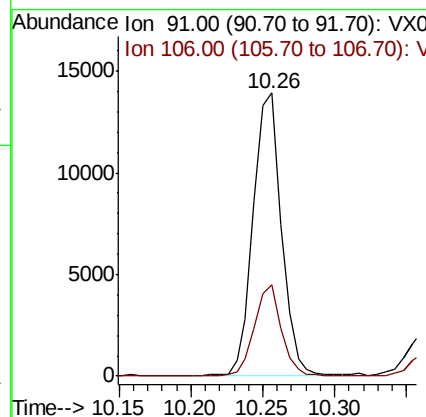
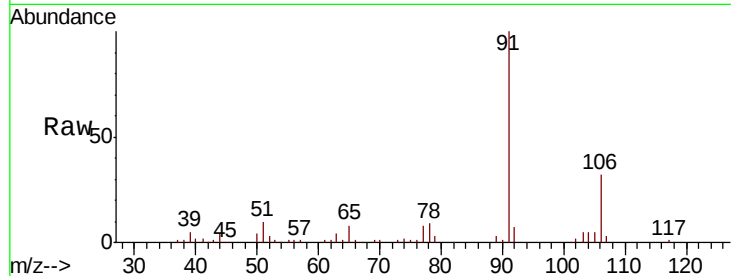




#67
Ethyl Benzene
Concen: 1.24 ug/l
RT: 10.26 min Scan# 1586
Delta R.T. -0.00 min
Lab File: VX004141.D
Acq: 17 Aug 2018 19:16

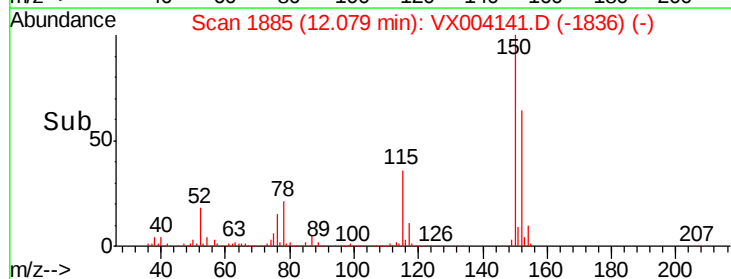
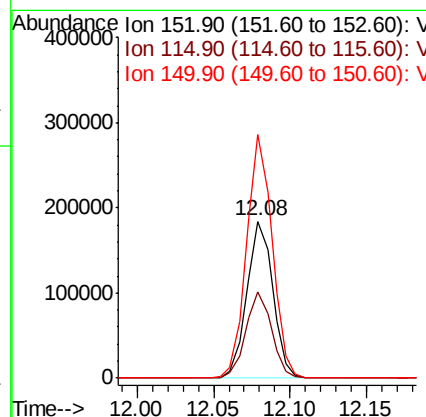
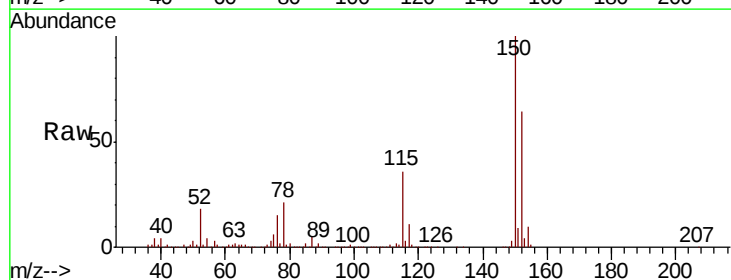
Instrument :
MSVOA_X
ClientSampled :
WC-1

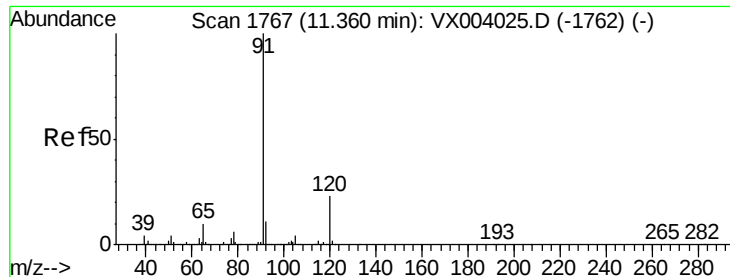
Tot Ion: 91 Resp: 18956
Ion Ratio Lower Upper
91 100
106 32.1 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.00 min
Lab File: VX004141.D
Acq: 17 Aug 2018 19:16

Tgt Ion: 152 Resp: 216209
Ion Ratio Lower Upper
152 100
115 54.6 39.1 117.3
150 153.6 0.0 349.2





#78

n-propylbenzene

Concen: 0.80 ug/l

RT: 11.36 min Scan# 1767

Delta R.T. -0.00 min

Lab File: VX004141.D

Acq: 17 Aug 2018 19:16

Instrument :

MSVOA_X

ClientSampleId :

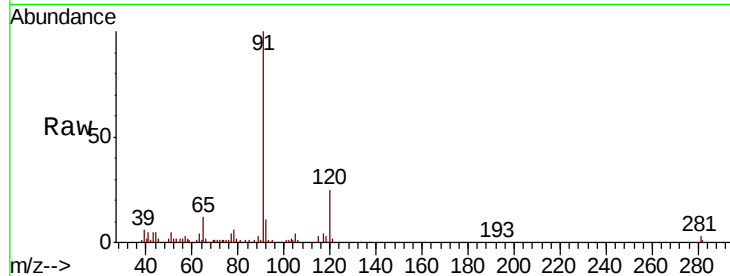
WC-1

Tot Ion: 91 Resp: 13179

Ion Ratio Lower Upper

91 100

120 24.3 11.9 35.5



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

12000

10000

8000

6000

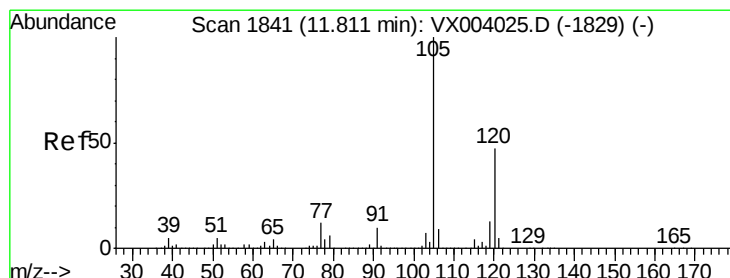
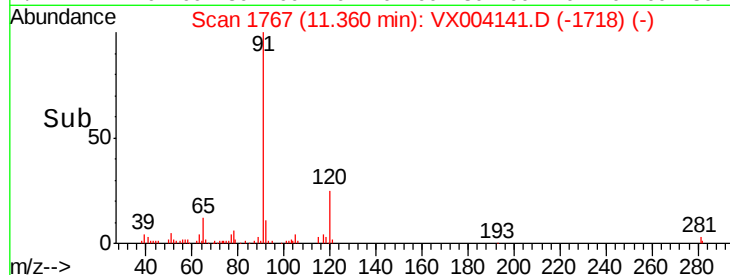
4000

2000

0

11.30 11.35 11.40

Time-->



#84

1,2,4-Trimethylbenzene

Concen: 0.57 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. -0.00 min

Lab File: VX004141.D

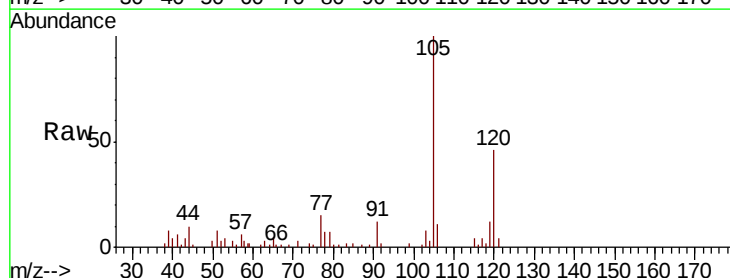
Acq: 17 Aug 2018 19:16

Tgt Ion:105 Resp: 7062

Ion Ratio Lower Upper

105 100

120 45.2 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

6000

5000

4000

3000

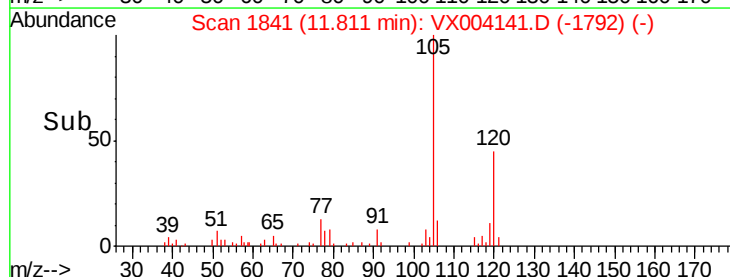
2000

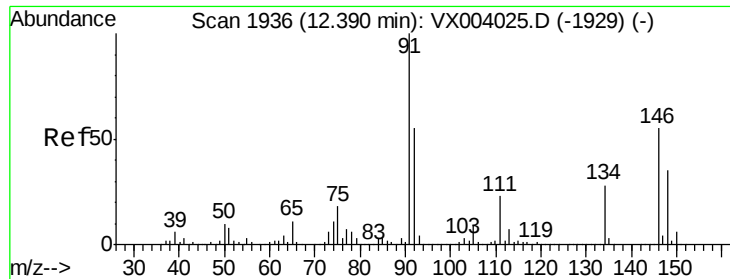
1000

0

11.75 11.80 11.85

Time-->

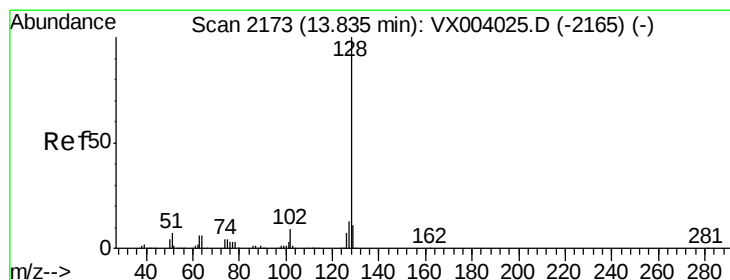
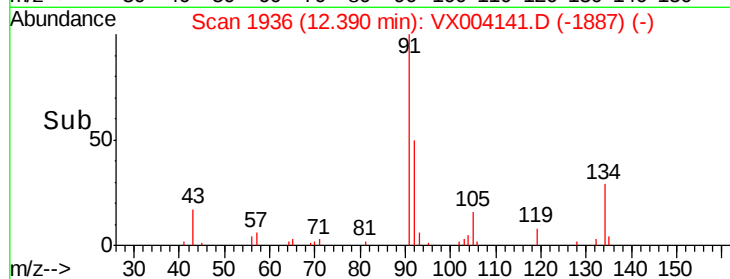
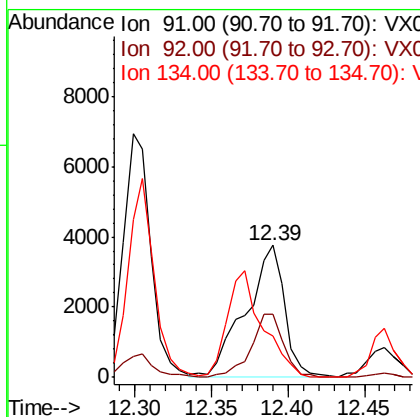
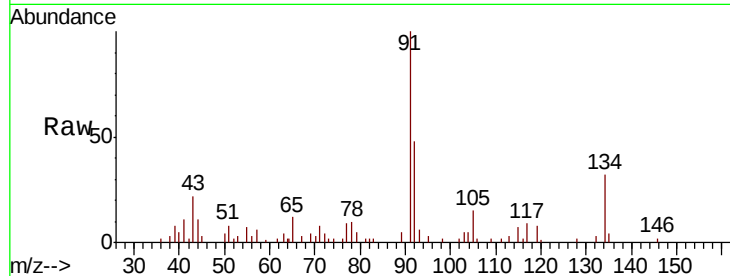




#89
n-Butylbenzene
Concen: 0.67 ug/l
RT: 12.39 min Scan# 1936
Delta R.T. -0.00 min
Lab File: VX004141.D
Acq: 17 Aug 2018 19:16

Instrument :
MSVOA_X
ClientSampled :
WC-1

Tot Ion: 91 Resp: 6723
Ion Ratio Lower Upper
91 100
92 39.6 27.1 81.3
134 72.6 13.6 40.7#



#95
Naphthalene
Concen: 1.42 ug/l
RT: 13.83 min Scan# 2173
Delta R.T. 0.00 min
Lab File: VX004141.D
Acq: 17 Aug 2018 19:16

Tgt Ion: 128 Resp: 4325
Ion Ratio Lower Upper
128 100
127 14.1 10.2 15.2
129 16.0 8.8 13.2#

