

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX063018\
 Data File : VX003088.D
 Acq On : 30 Jun 2018 19:23
 Operator : JC/MD
 Sample : J3738-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S22-0040

Quant Time: Jul 02 04:11:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	280133	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	388136	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	364075	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	225931	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	178877	46.20	ug/l	0.00
Spiked Amount			Recovery	=	92.40%	
35) Dibromofluoromethane	5.51	113	146904	47.79	ug/l	0.00
Spiked Amount			Recovery	=	95.58%	
50) Toluene-d8	8.72	98	548100	48.83	ug/l	0.00
Spiked Amount			Recovery	=	97.66%	
62) 4-Bromofluorobenzene	11.14	95	205340	47.44	ug/l	0.00
Spiked Amount			Recovery	=	94.88%	

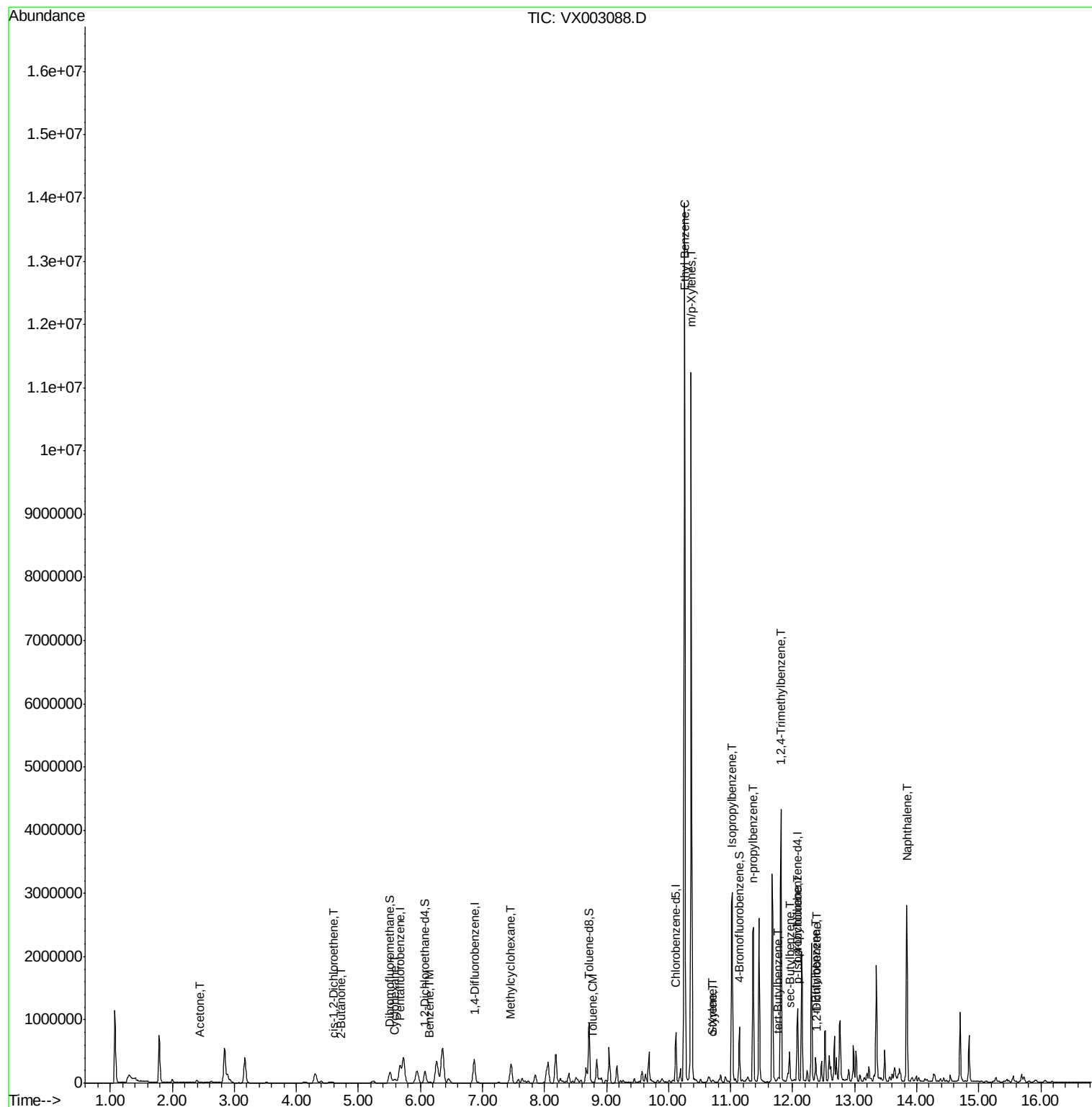
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	2.45	43	10749	6.70	ug/l	98
25) 2-Butanone	4.72	43	3610	1.52	ug/l	91
27) cis-1,2-Dichloroethene	4.60	96	1953	0.58	ug/l #	1
31) Cyclohexane	5.59	56	39047	8.04	ug/l	98
39) Methylcyclohexane	7.46	83	118248	23.85	ug/l	92
40) Benzene	6.15	78	15777	1.28	ug/l	93
52) Toluene	8.79	92	1877	0.24	ug/l	91
67) Ethyl Benzene	10.26	91	7754789	507.64	ug/l	96
68) m/p-Xylenes	10.37	106	2417349	410.60	ug/l	95
69) o-Xylene	10.70	106	3313	0.58	ug/l	81
70) Styrene	10.72	104	5014	0.54	ug/l	92
73) Isopropylbenzene	11.02	105	1583966	104.22	ug/l	100
78) n-propylbenzene	11.37	91	1533364	88.63	ug/l	100
83) tert-Butylbenzene	11.77	119	19871	1.58	ug/l	94
84) 1,2,4-Trimethylbenzene	11.81	105	1768207	133.31	ug/l	97
85) sec-Butylbenzene	11.95	105	223521	14.60	ug/l	84
86) p-Isopropyltoluene	12.07	119	126523	9.19	ug/l	99
89) n-Butylbenzene	12.37	91	21879	1.83	ug/l #	1
91) 1,2-Dichlorobenzene	12.40	146	2119	0.27	ug/l	87
95) Naphthalene	13.84	128	1780527	115.12	ug/l	99

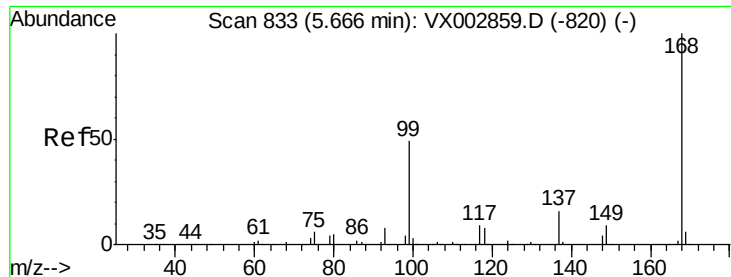
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003088.D

Acq: 30 Jun 2018 19:23

Instrument :

MSVOA_X

ClientSampleId :

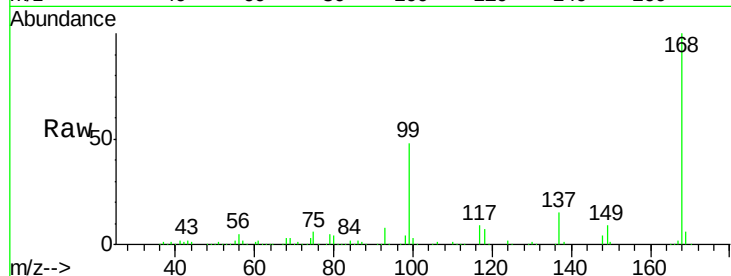
S22-0040

Tot Ion:168 Resp: 280133

Ion Ratio Lower Upper

168 100

99 48.1 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

120000

100000

80000

60000

40000

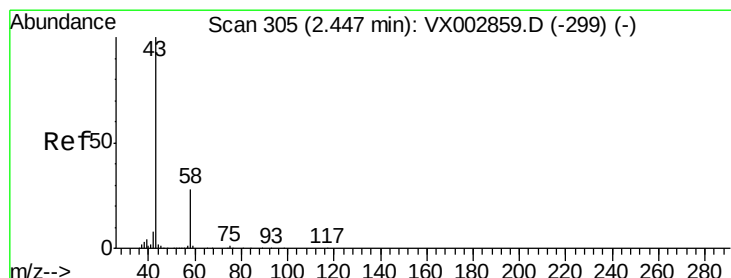
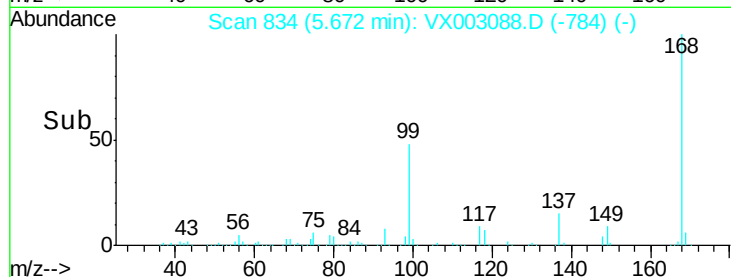
20000

0

5.60 5.70 5.80

5.67

Time-->



#16

Acetone

Concen: 6.70 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003088.D

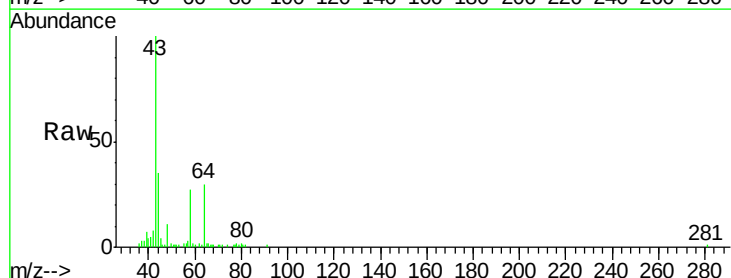
Acq: 30 Jun 2018 19:23

Tgt Ion: 43 Resp: 10749

Ion Ratio Lower Upper

43 100

58 26.5 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8000

6000

4000

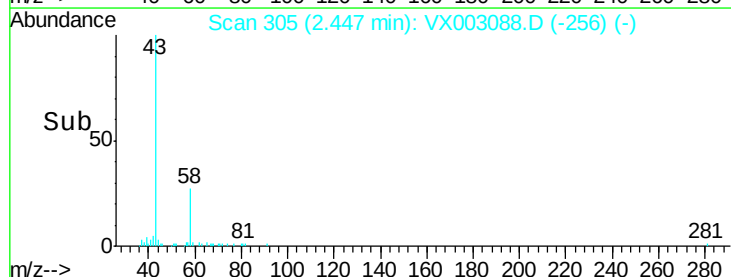
2000

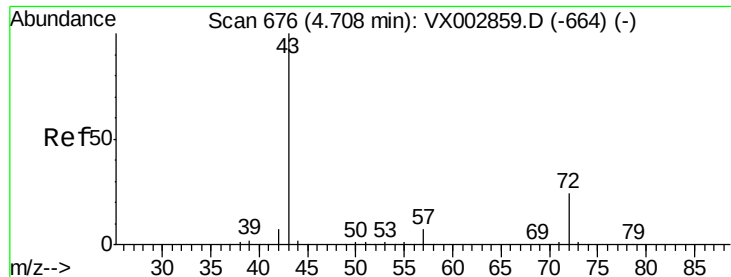
0

2.40 2.45 2.50

2.45

Time-->





#25

2-Butanone

Concen: 1.52 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX003088.D

Acq: 30 Jun 2018 19:23

Instrument :

MSVOA_X

ClientSampled :

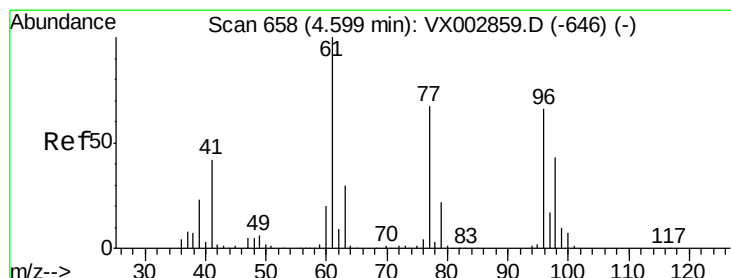
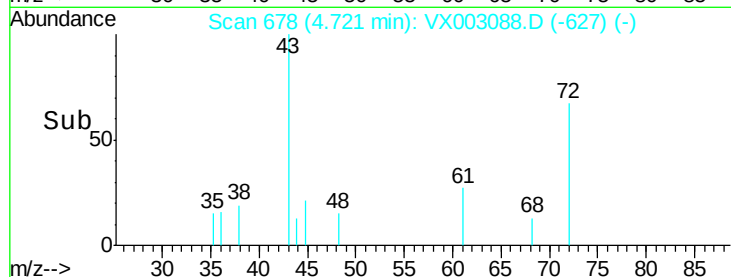
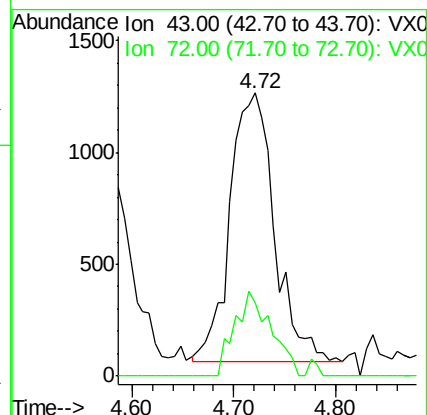
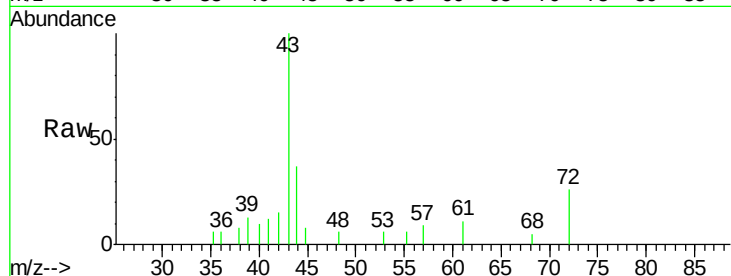
S22-0040

Tot Ion: 43 Resp: 3610

Ion Ratio Lower Upper

43 100

72 27.7 18.5 27.7



#27

cis-1,2-Dichloroethene

Concen: 0.58 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX003088.D

Acq: 30 Jun 2018 19:23

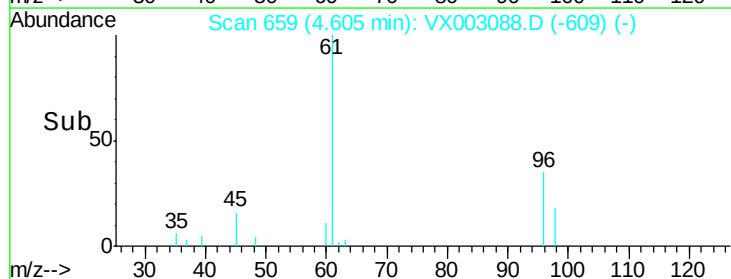
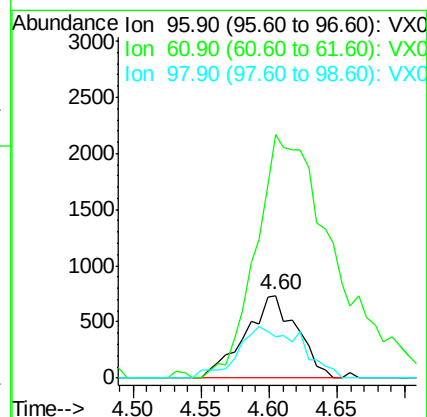
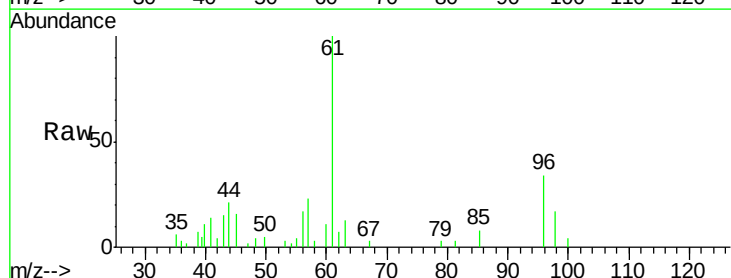
Tgt Ion: 96 Resp: 1953

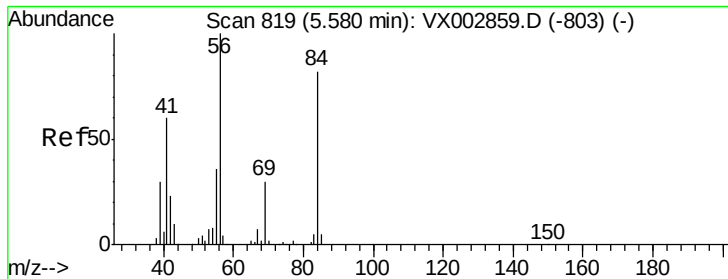
Ion Ratio Lower Upper

96 100

61 447.1 0.0 330.2#

98 76.1 0.0 130.2

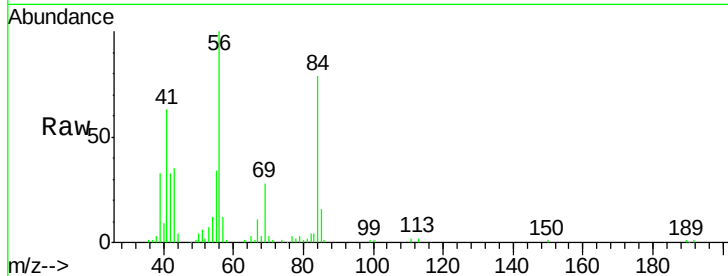




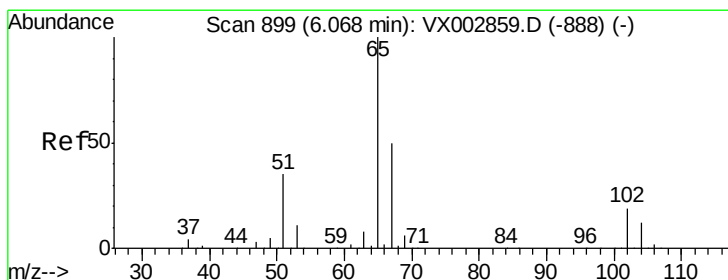
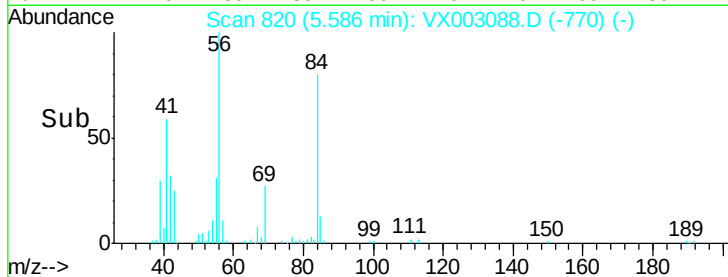
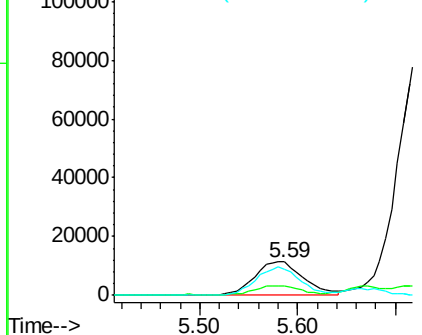
#31
Cyclohexane
Concen: 8.04 ug/l
RT: 5.59 min Scan# 820
Delta R.T. 0.01 min
Lab File: VX003088.D
Acq: 30 Jun 2018 19:23

Instrument :
MSVOA_X
ClientSampled :
S22-0040

Tot Ion: 56 Resp: 39047
Ion Ratio Lower Upper
56 100
69 25.0 23.7 35.5
84 80.1 64.1 96.1

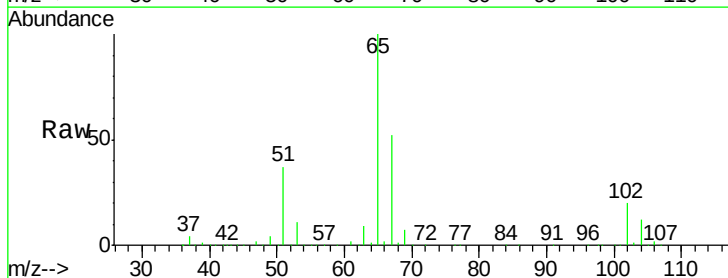


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

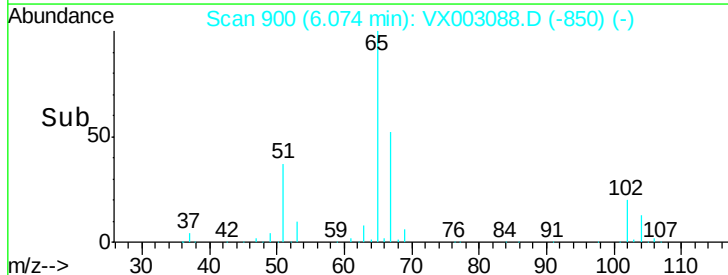
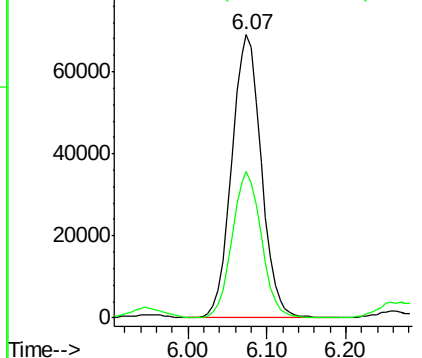


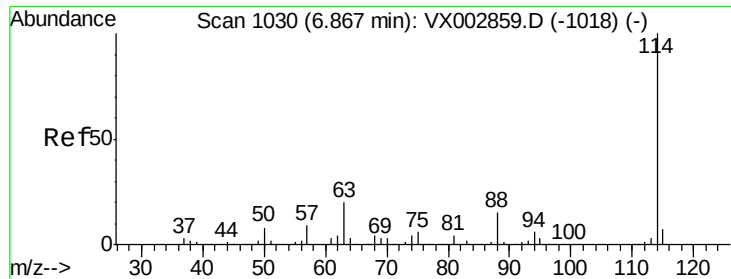
#33
1,2-Dichloroethane-d4
Concen: 46.20 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.01 min
Lab File: VX003088.D
Acq: 30 Jun 2018 19:23

Tgt Ion: 65 Resp: 178877
Ion Ratio Lower Upper
65 100
67 50.9 0.0 102.6



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: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX003088.D

Acq: 30 Jun 2018 19:23

Instrument :

MSVOA_X

ClientSampleId :

S22-0040

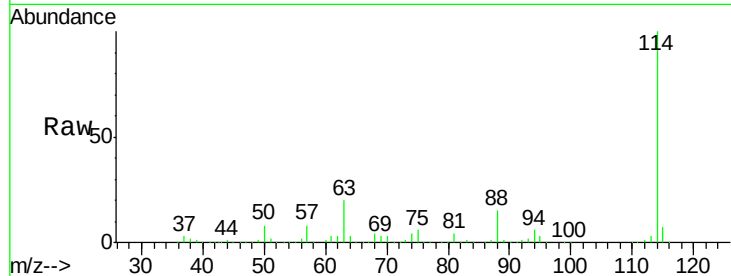
Tot Ion:114 Resp: 388136

Ion Ratio Lower Upper

114 100

63 20.0 0.0 41.4

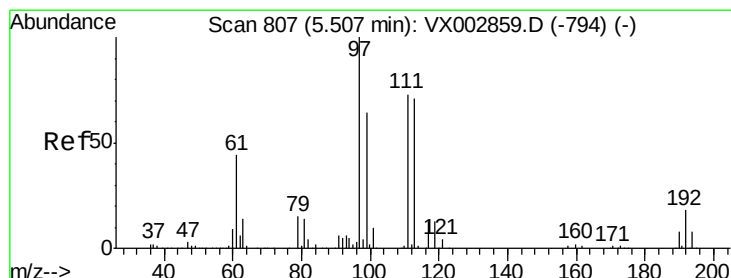
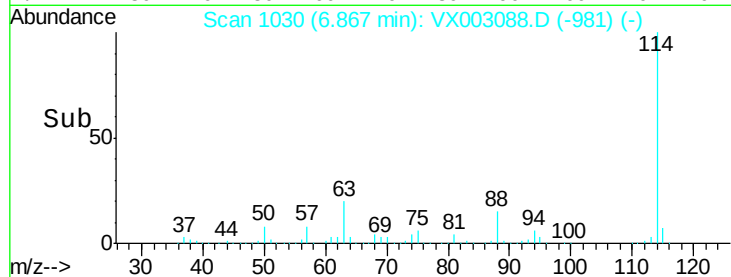
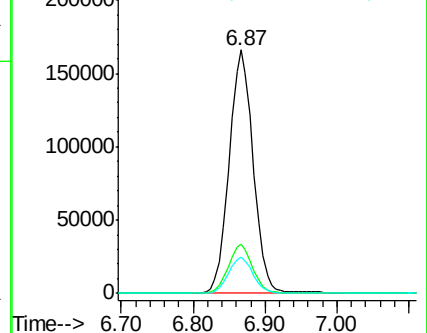
88 15.0 0.0 30.0



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: 47.79 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003088.D

Acq: 30 Jun 2018 19:23

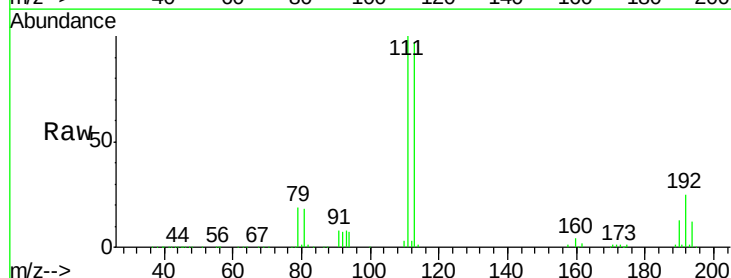
Tgt Ion:113 Resp: 146904

Ion Ratio Lower Upper

113 100

111 102.5 81.4 122.0

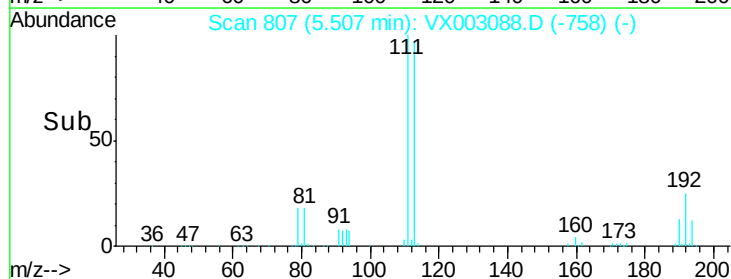
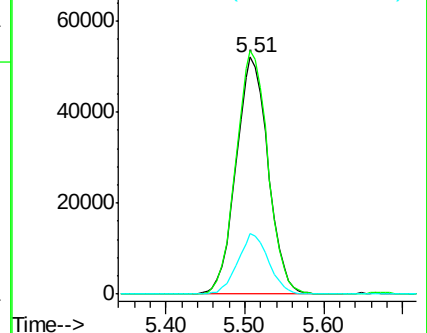
192 24.7 19.1 28.7

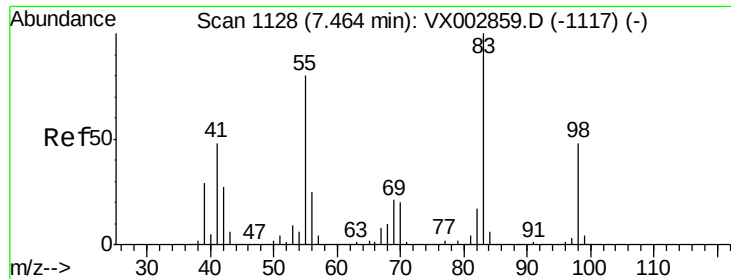


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

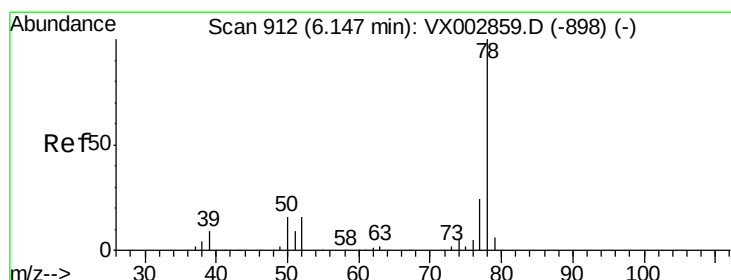
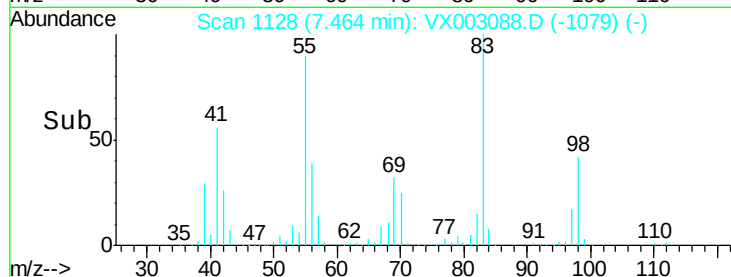
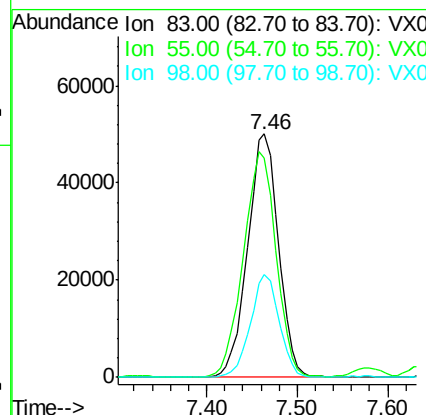
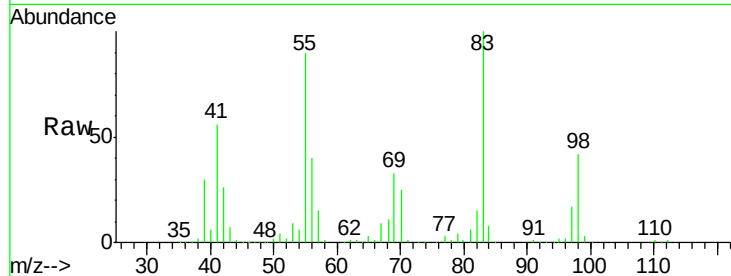




#39
Methylvlcyclohexane
Concen: 23.85 ug/l
RT: 7.46 min Scan# 1128
Delta R.T. 0.00 min
Lab File: VX003088.D
Acq: 30 Jun 2018 19:23

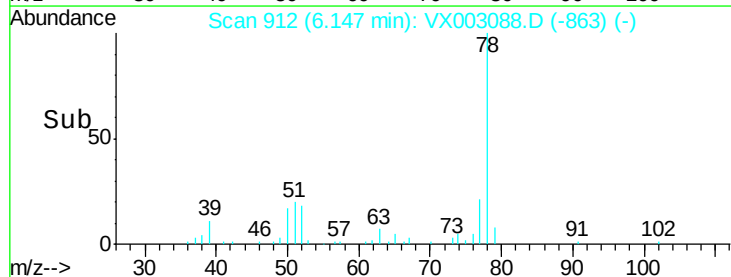
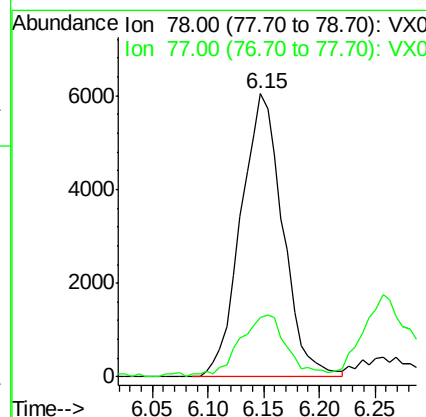
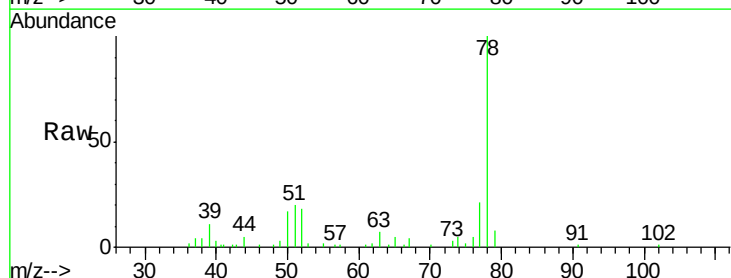
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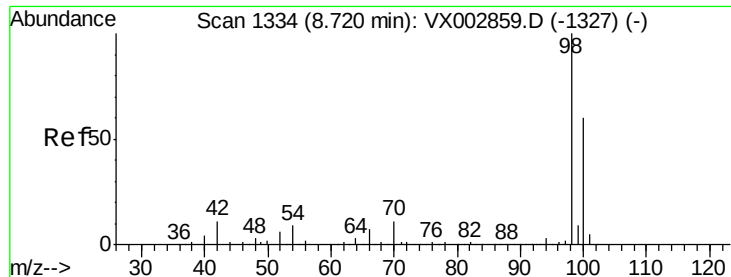
Tot Ion: 83 Resp: 118248
Ion Ratio Lower Upper
83 100
55 89.9 65.4 98.0
98 42.3 37.4 56.0



#40
Benzene
Concen: 1.28 ug/l
RT: 6.15 min Scan# 912
Delta R.T. 0.00 min
Lab File: VX003088.D
Acq: 30 Jun 2018 19:23

Tgt Ion: 78 Resp: 15777
Ion Ratio Lower Upper
78 100
77 20.3 19.1 28.7

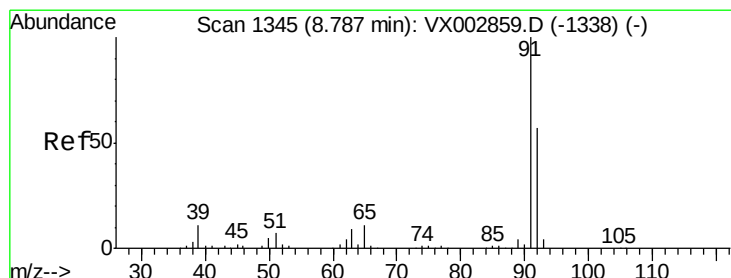
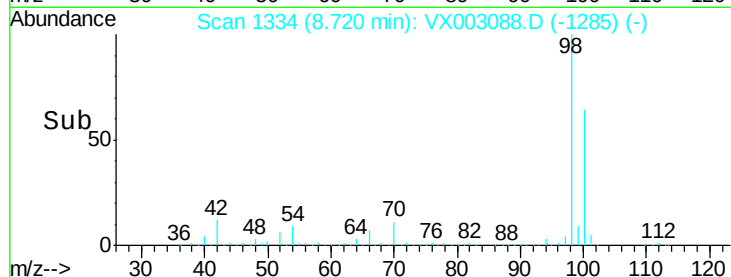
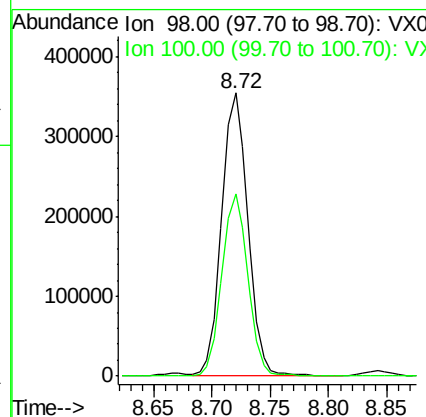
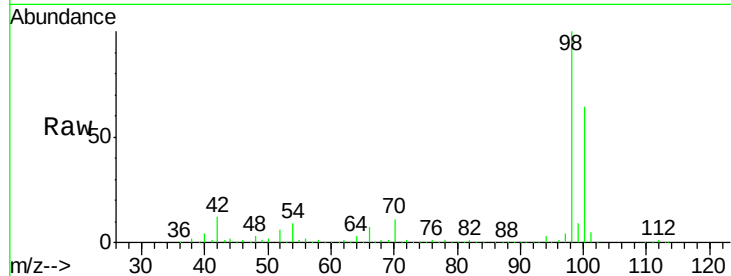




#50
Toluene-d8
Concen: 48.83 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003088.D
Acq: 30 Jun 2018 19:23

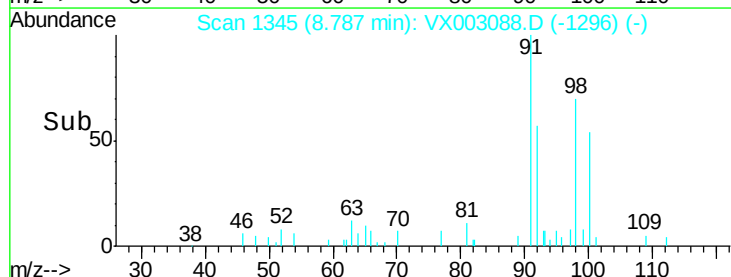
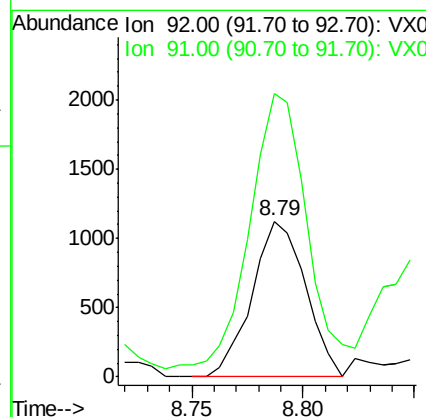
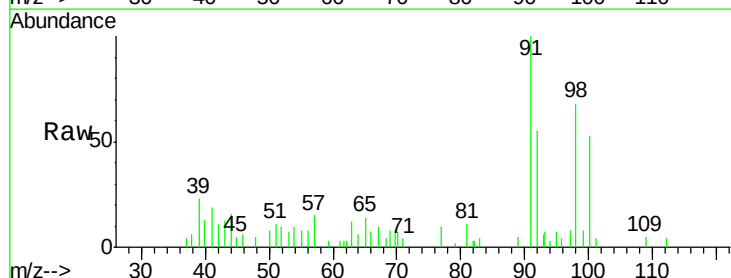
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MSVOA_X
ClientSampleId :
S22-0040

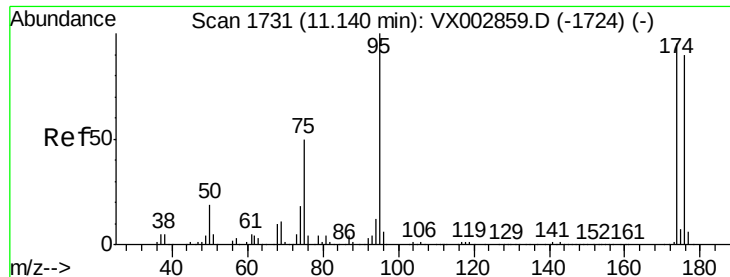
Tot Ion: 98 Resp: 548100
Ion Ratio Lower Upper
98 100
100 64.6 50.9 76.3



#52
Toluene
Concen: 0.24 ug/l
RT: 8.79 min Scan# 1345
Delta R.T. 0.00 min
Lab File: VX003088.D
Acq: 30 Jun 2018 19:23

Tgt Ion: 92 Resp: 1877
Ion Ratio Lower Upper
92 100
91 188.4 140.4 210.6





#62

4-Bromofluorobenzene

Concen: 47.44 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003088.D

Acq: 30 Jun 2018 19:23

Instrument :

MSVOA_X

ClientSampleId :

S22-0040

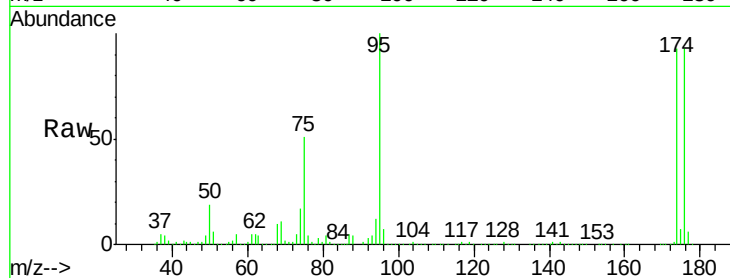
Tot Ion: 95 Resp: 205340

Ion Ratio Lower Upper

95 100

174 97.4 0.0 187.4

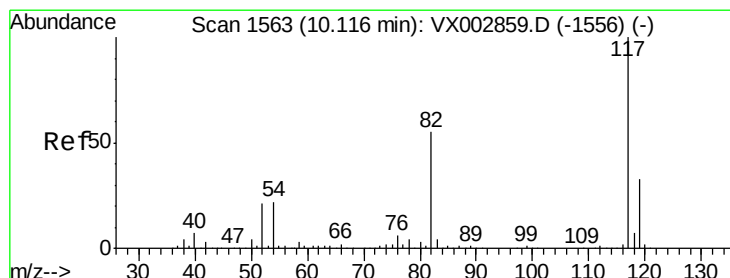
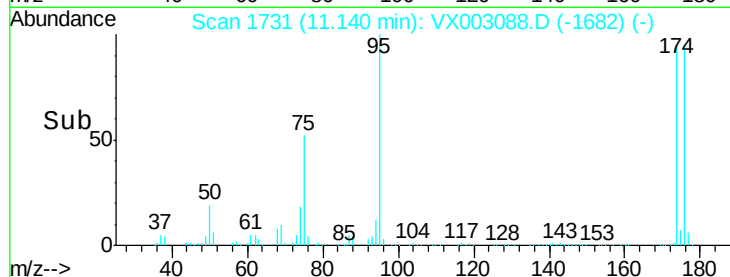
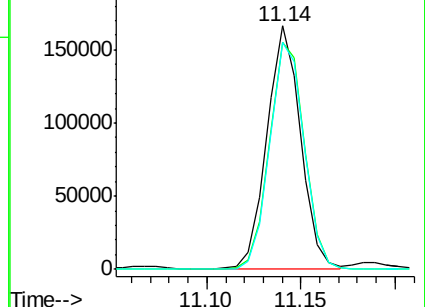
176 95.5 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX002859.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX002859.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX002859.D (-1724) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003088.D

Acq: 30 Jun 2018 19:23

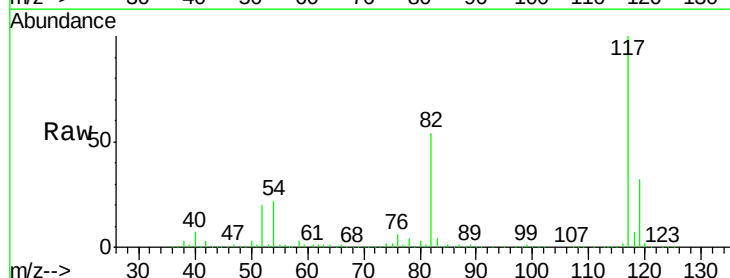
Tgt Ion: 117 Resp: 364075

Ion Ratio Lower Upper

117 100

82 53.8 45.0 67.4

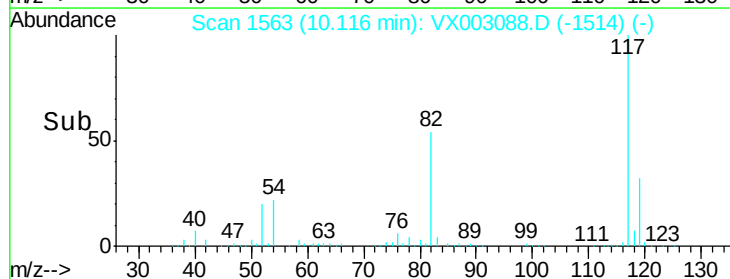
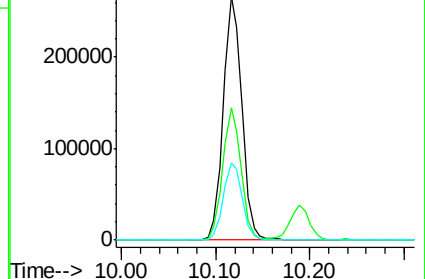
119 31.7 25.8 38.6

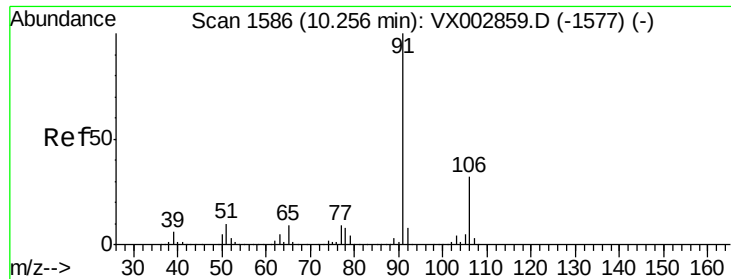


Abundance Ion 116.90 (116.60 to 117.60): VX002859.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX002859.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX002859.D (-1556) (-)





#67

Ethyl Benzene

Concen: 507.64 ug/l

RT: 10.26 min Scan# 1586

Delta R.T. 0.00 min

Lab File: VX003088.D

Acq: 30 Jun 2018 19:23

Instrument :

MSVOA_X

ClientSampleId :

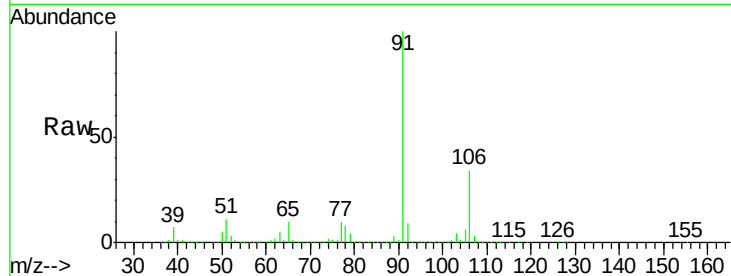
S22-0040

Tot Ion: 91 Resp: 7754789

Ion Ratio Lower Upper

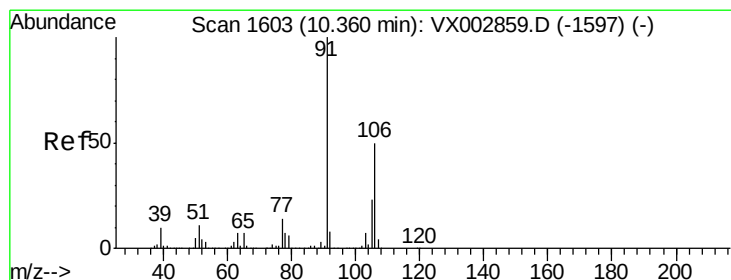
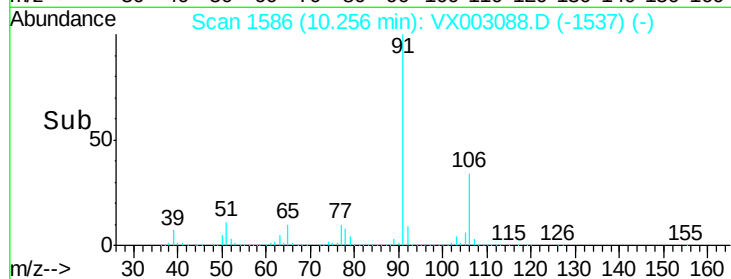
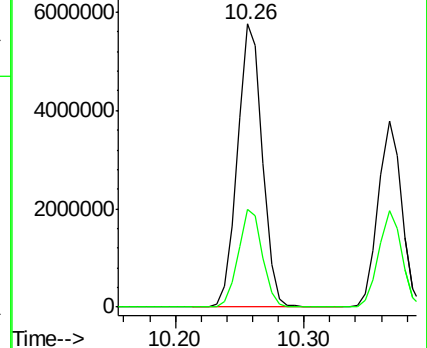
91 100

106 34.4 25.5 38.3



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 410.60 ug/l

RT: 10.37 min Scan# 1604

Delta R.T. 0.01 min

Lab File: VX003088.D

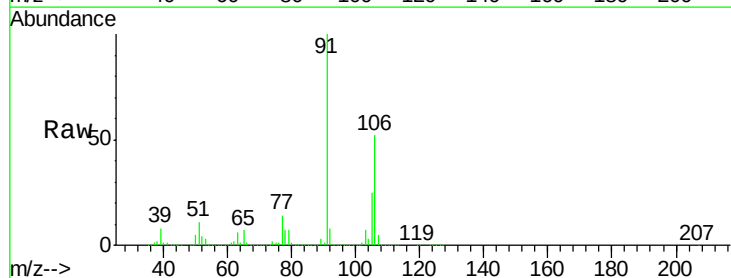
Acq: 30 Jun 2018 19:23

Tgt Ion:106 Resp: 2417349

Ion Ratio Lower Upper

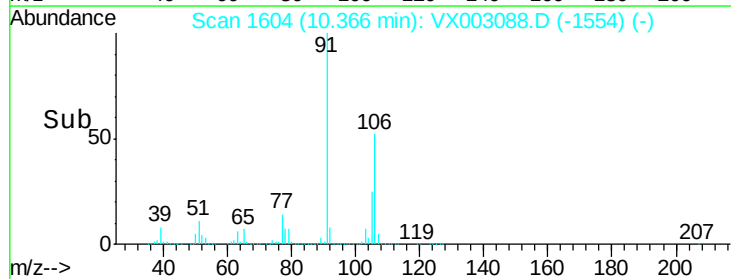
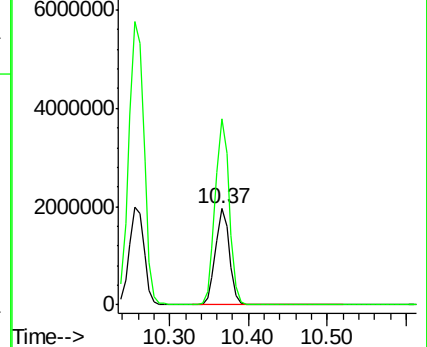
106 100

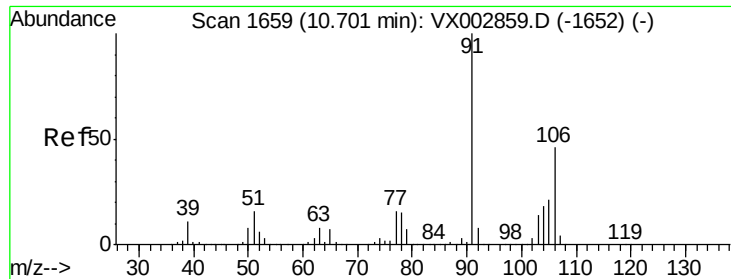
91 196.2 163.4 245.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

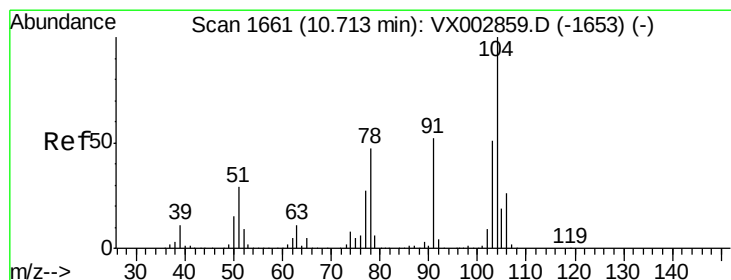
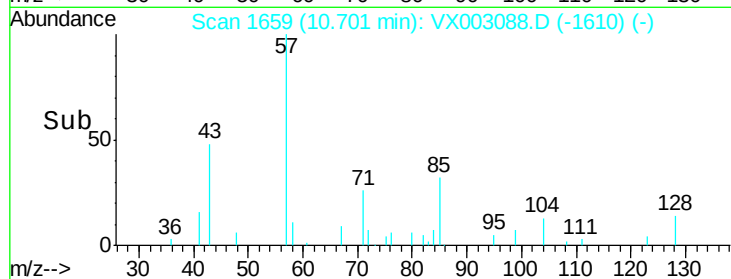
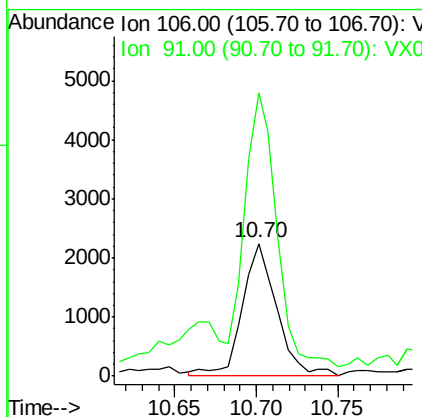
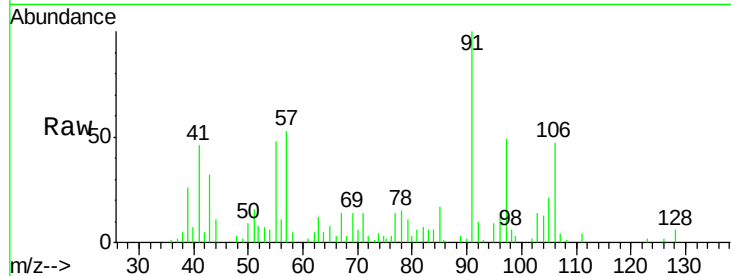




#69
o-Xylene
Concen: 0.58 ug/l
RT: 10.70 min Scan# 1659
Delta R.T. 0.00 min
Lab File: VX003088.D
Acq: 30 Jun 2018 19:23

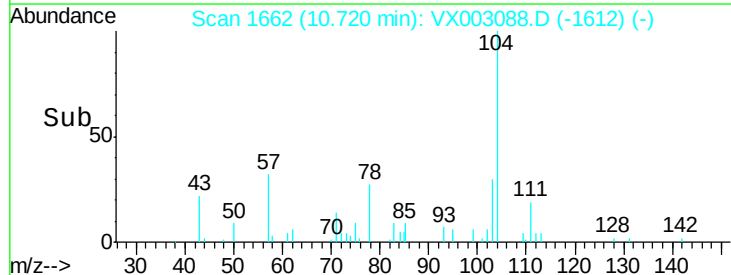
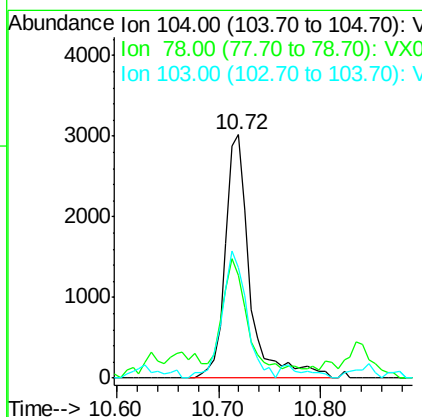
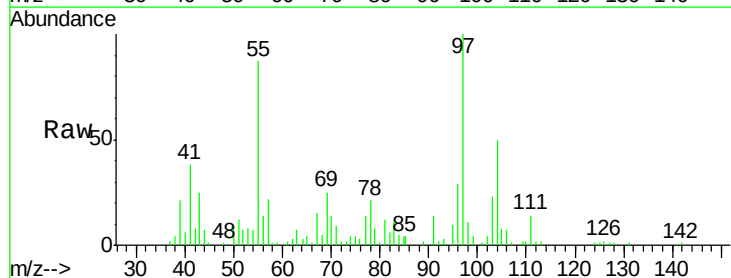
Instrument :
MSVOA_X
ClientSampled :
S22-0040

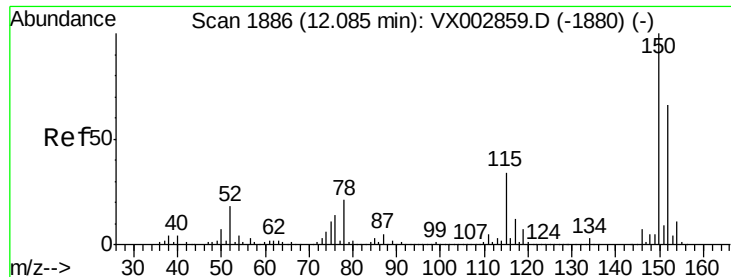
Tot Ion:106 Resp: 3313
Ion Ratio Lower Upper
106 100
91 186.9 108.2 324.6



#70
Styrene
Concen: 0.54 ug/l
RT: 10.72 min Scan# 1662
Delta R.T. 0.01 min
Lab File: VX003088.D
Acq: 30 Jun 2018 19:23

Tgt Ion:104 Resp: 5014
Ion Ratio Lower Upper
104 100
78 42.9 41.0 61.6
103 52.3 44.2 66.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX003088.D

Acq: 30 Jun 2018 19:23

Instrument :

MSVOA_X

ClientSampleId :

S22-0040

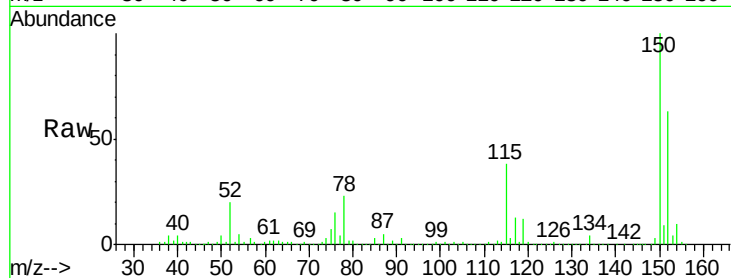
Tot Ion:152 Resp: 225931

Ion Ratio Lower Upper

152 100

115 62.0 40.1 120.2

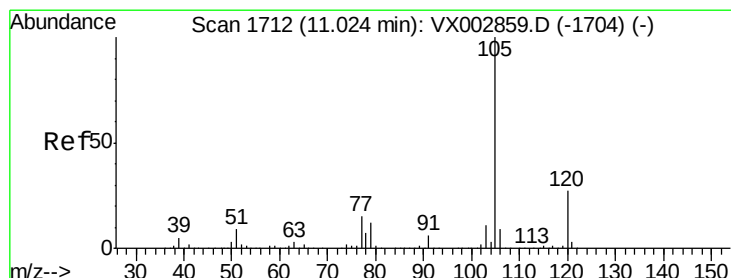
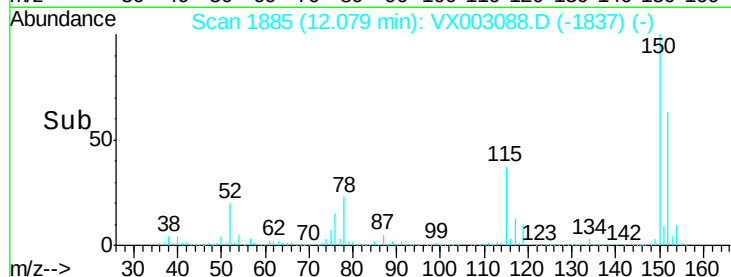
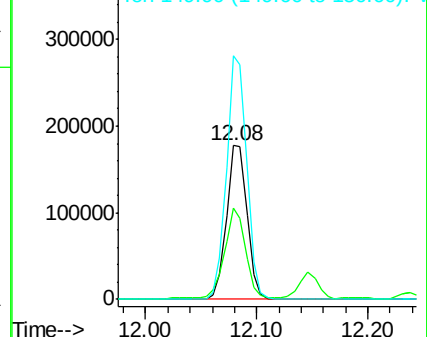
150 155.9 0.0 347.2



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



#73

Isopropylbenzene

Concen: 104.22 ug/l

RT: 11.02 min Scan# 1712

Delta R.T. 0.00 min

Lab File: VX003088.D

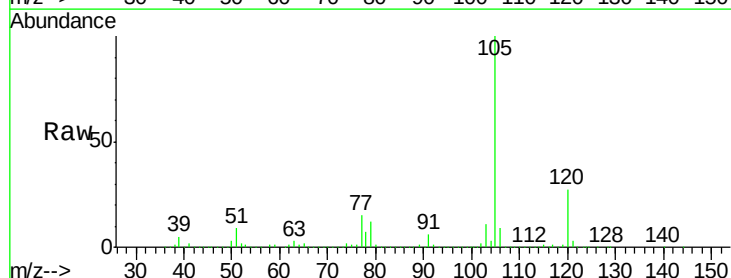
Acq: 30 Jun 2018 19:23

Tgt Ion:105 Resp: 1583966

Ion Ratio Lower Upper

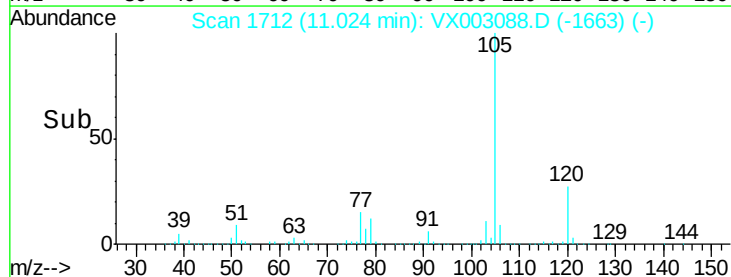
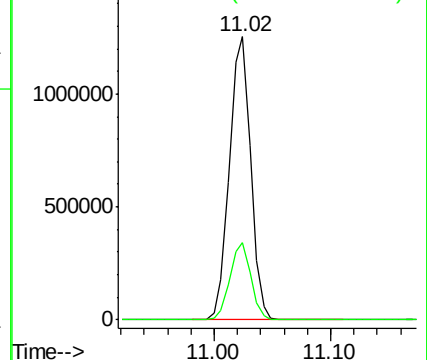
105 100

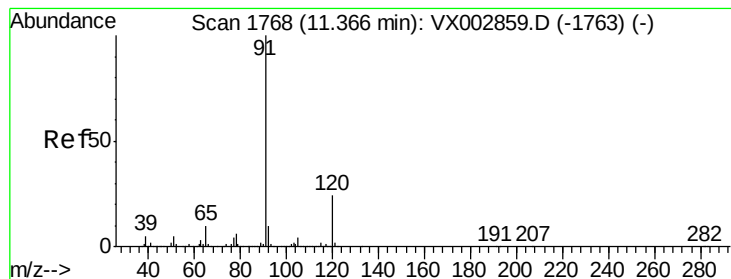
120 27.1 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 88.63 ug/l

RT: 11.37 min Scan# 1768

Delta R.T. 0.00 min

Lab File: VX003088.D

Acq: 30 Jun 2018 19:23

Instrument :

MSVOA_X

ClientSampled :

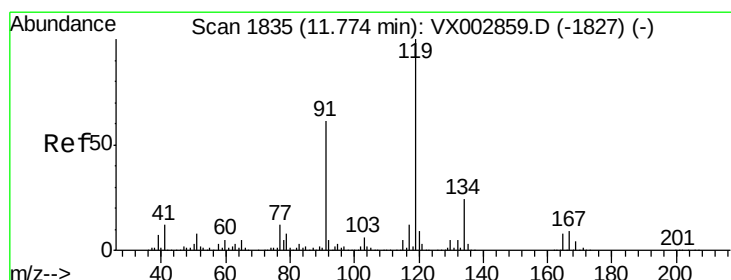
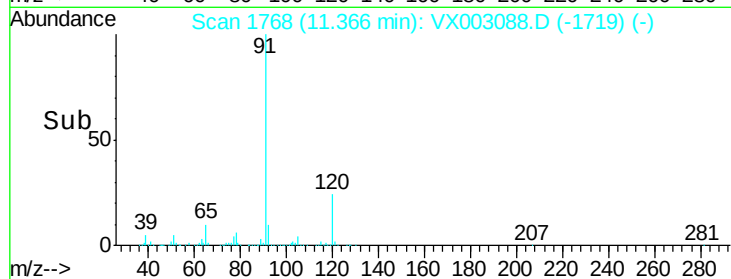
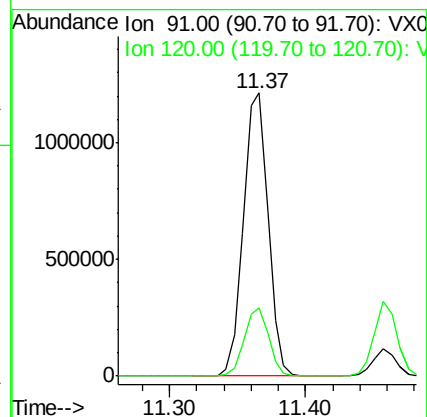
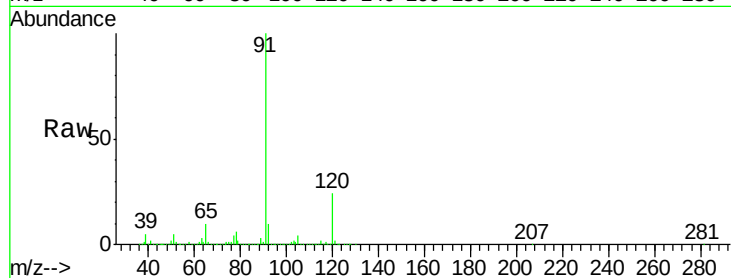
S22-0040

Tot Ion: 91 Resp: 1533364

Ion Ratio Lower Upper

91 100

120 23.8 11.8 35.4



#83

tert-Butylbenzene

Concen: 1.58 ug/l

RT: 11.77 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX003088.D

Acq: 30 Jun 2018 19:23

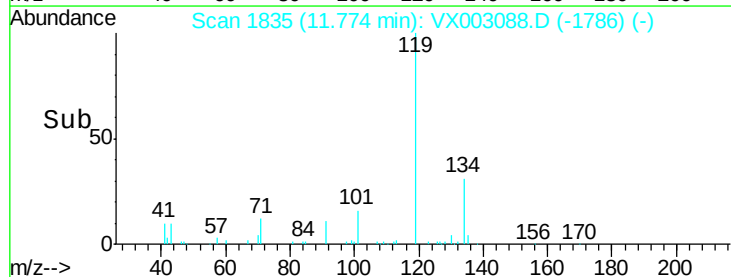
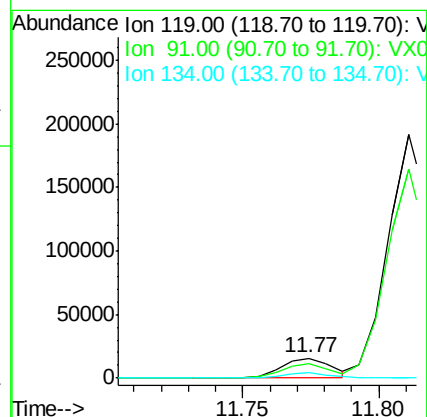
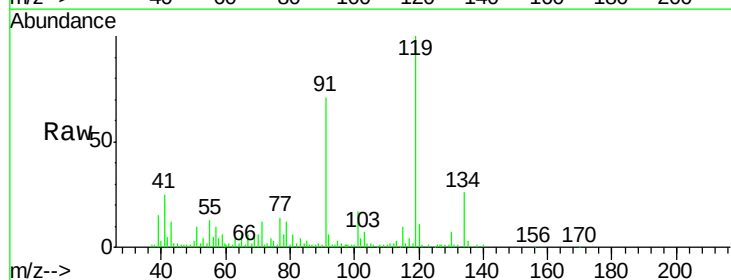
Tgt Ion: 119 Resp: 19871

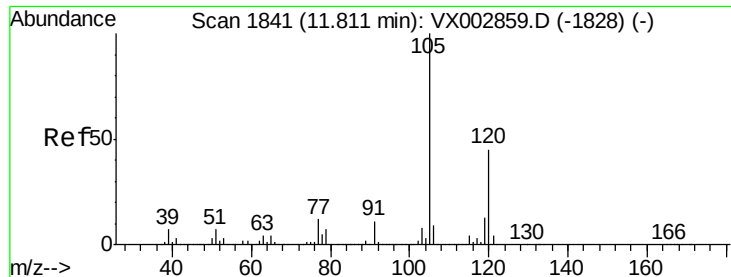
Ion Ratio Lower Upper

119 100

91 65.4 30.3 90.9

134 25.3 11.7 35.1





#84

1,2,4-Trimethylbenzene

Concen: 133.31 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VX003088.D

Acq: 30 Jun 2018 19:23

Instrument :

MSVOA_X

ClientSampleId :

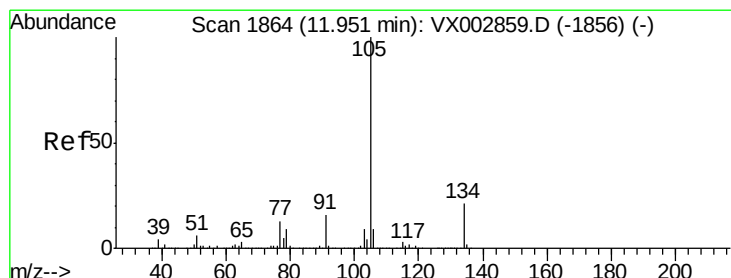
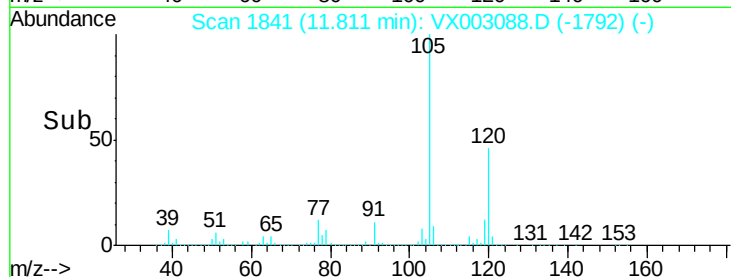
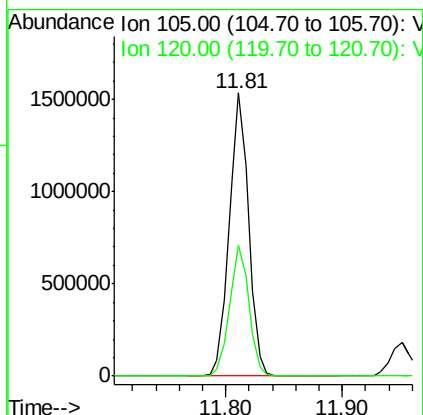
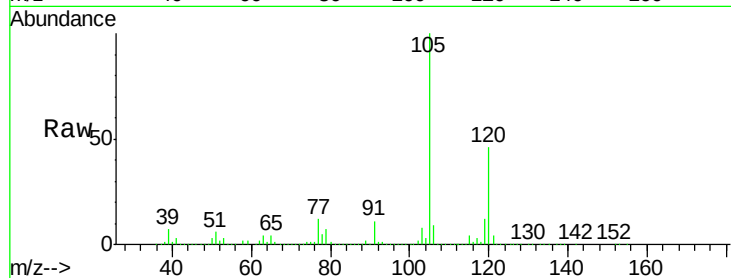
S22-0040

Tot Ion:105 Resp: 1768207

Ion Ratio Lower Upper

105 100

120 46.3 22.3 66.8



#85

sec-Butylbenzene

Concen: 14.60 ug/l

RT: 11.95 min Scan# 1864

Delta R.T. 0.00 min

Lab File: VX003088.D

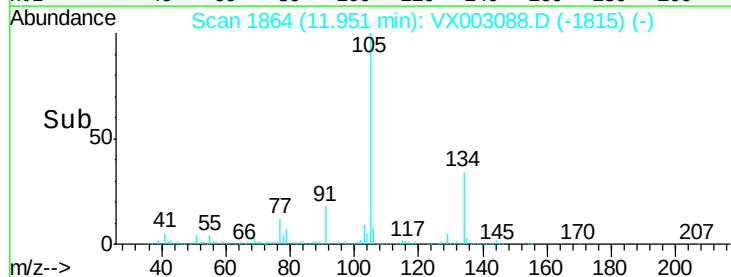
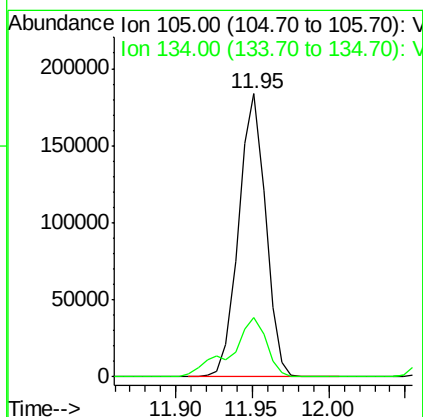
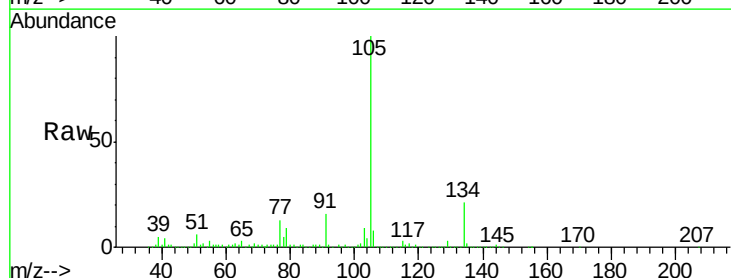
Acq: 30 Jun 2018 19:23

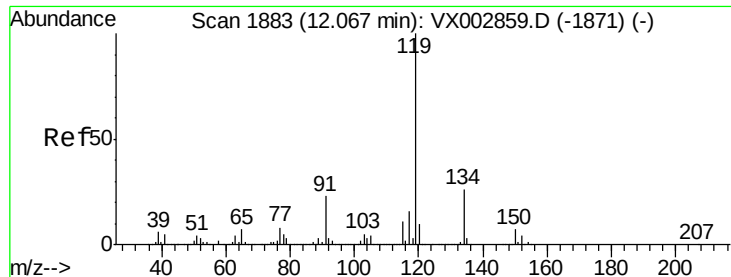
Tgt Ion:105 Resp: 223521

Ion Ratio Lower Upper

105 100

134 28.0 10.4 31.1

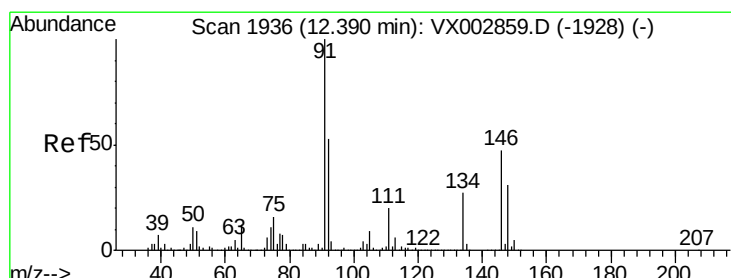
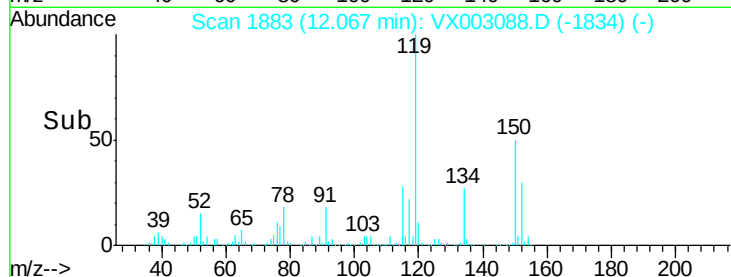
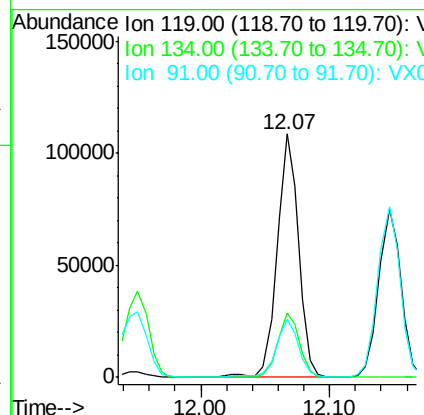
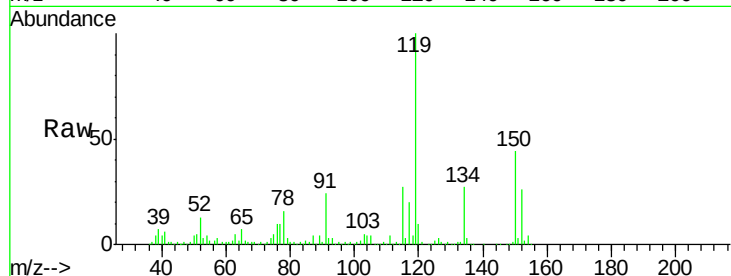




#86
p-Isopropyltoluene
Concen: 9.19 ug/l
RT: 12.07 min Scan# 1883
Delta R.T. 0.00 min
Lab File: VX003088.D
Acq: 30 Jun 2018 19:23

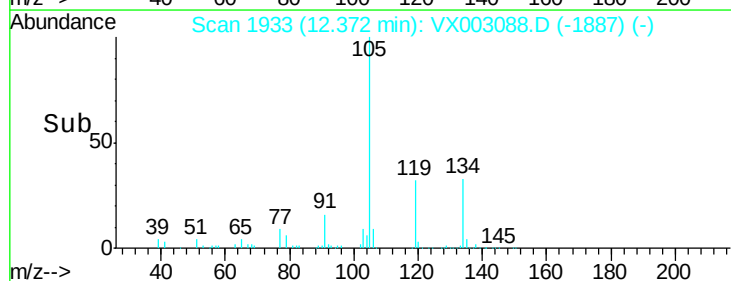
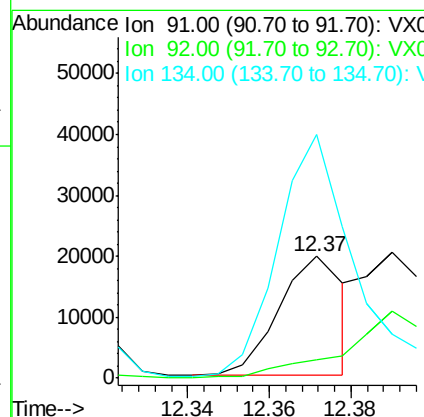
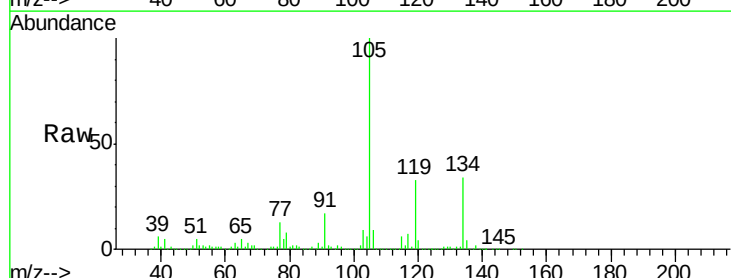
Instrument :
MSVOA_X
ClientSampleId :
S22-0040

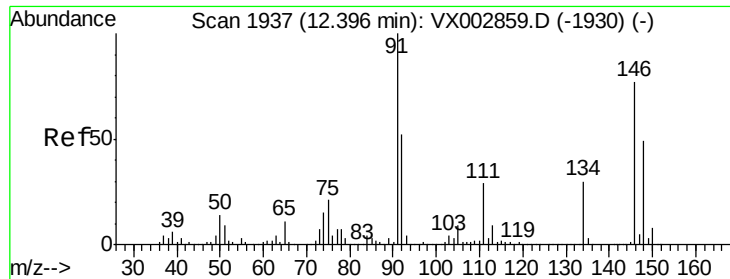
Tot Ion	Ratio	Lower	Upper
119	100		
134	27.3	13.4	40.1
91	24.3	11.9	35.7



#89
n-Butylbenzene
Concen: 1.83 ug/l
RT: 12.37 min Scan# 1933
Delta R.T. -0.02 min
Lab File: VX003088.D
Acq: 30 Jun 2018 19:23

Tgt Ion	Ratio	Lower	Upper
91	100		
92	70.4	26.0	78.0
134	241.4	13.5	40.5#





#91

1,2-Dichlorobenzene

Concen: 0.27 ug/l

RT: 12.40 min Scan# 1937

Delta R.T. 0.00 min

Lab File: VX003088.D

Acq: 30 Jun 2018 19:23

Instrument :

MSVOA_X

ClientSampled :

S22-0040

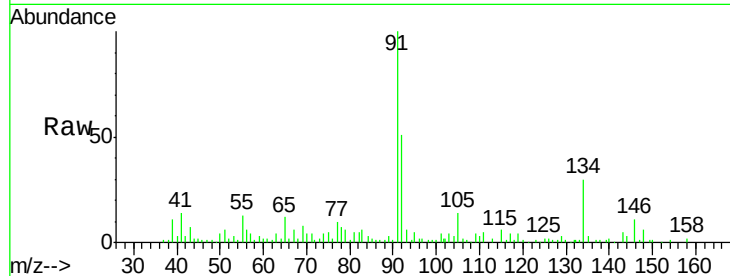
Tot Ion:146 Resp: 2119

Ion Ratio Lower Upper

146 100

111 54.5 19.4 58.1

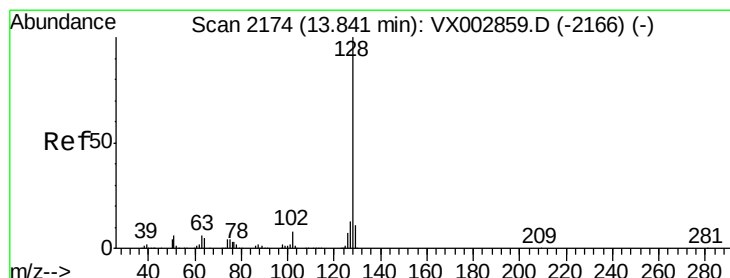
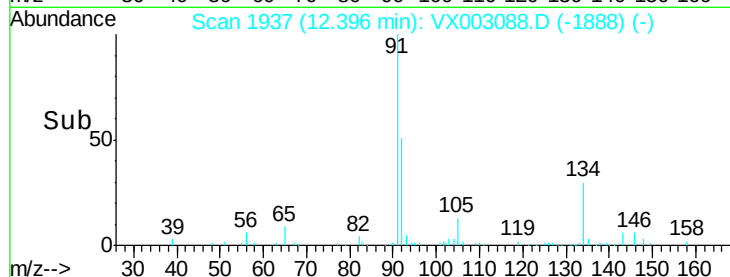
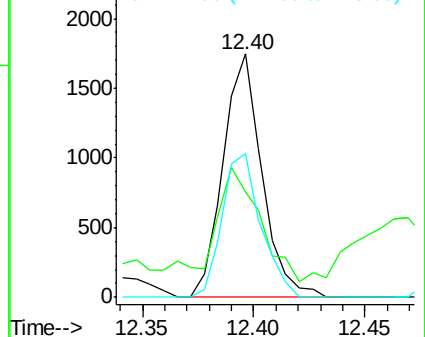
148 58.8 31.7 95.1



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#95

Naphthalene

Concen: 115.12 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.00 min

Lab File: VX003088.D

Acq: 30 Jun 2018 19:23

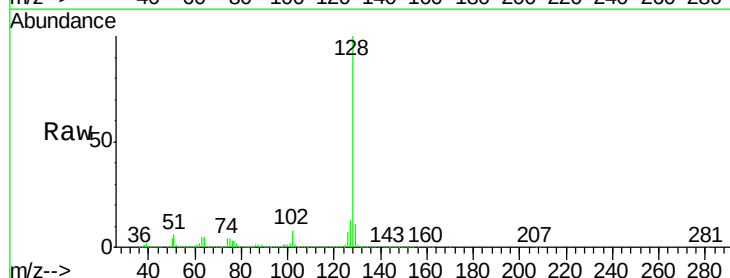
Tgt Ion:128 Resp: 1780527

Ion Ratio Lower Upper

128 100

127 13.0 10.4 15.6

129 11.2 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

