

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX062218\
 Data File : VX002847.D
 Acq On : 22 Jun 2018 22:38
 Operator : JC/MD
 Sample : J3631-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S83-0019

Quant Time: Jun 23 03:17:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	235871	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	323006	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	305392	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	195304	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	154985	43.24	ug/l	0.00
Spiked Amount			Recovery	=	86.48%	
35) Dibromofluoromethane	5.51	113	122308	47.44	ug/l	0.00
Spiked Amount			Recovery	=	94.88%	
50) Toluene-d8	8.72	98	469861	48.00	ug/l	0.00
Spiked Amount			Recovery	=	96.00%	
62) 4-Bromofluorobenzene	11.14	95	174861	47.14	ug/l	0.00
Spiked Amount			Recovery	=	94.28%	

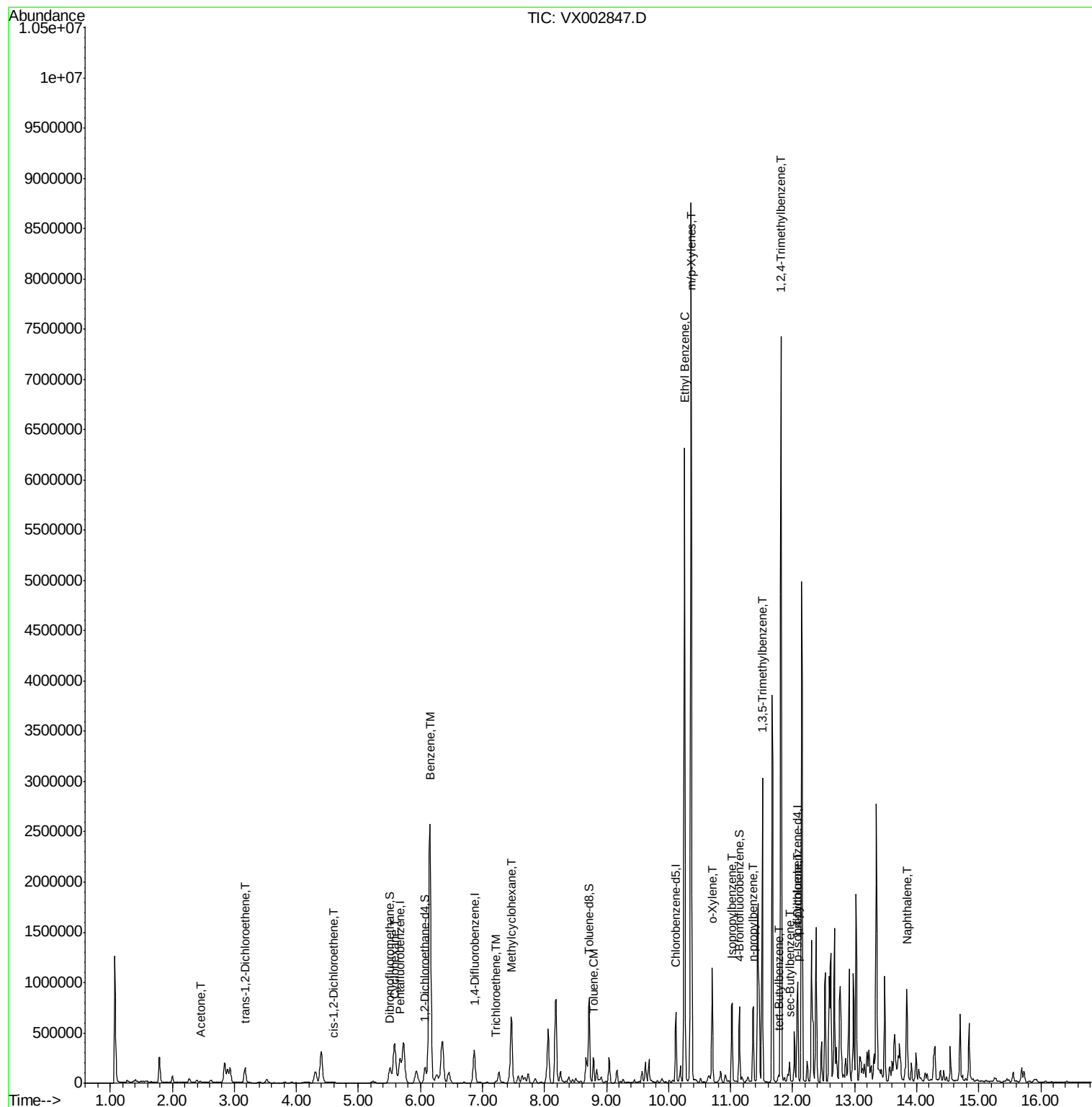
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	2.45	43	10689	6.76	ug/l	95
21) trans-1,2-Dichloroethene	3.17	96	1870	0.65	ug/l #	80
27) cis-1,2-Dichloroethene	4.61	96	1541	0.53	ug/l #	1
31) Cyclohexane	5.58	56	258538	61.11	ug/l	96
39) Methylcyclohexane	7.46	83	278355	69.41	ug/l	100
40) Benzene	6.15	78	3032847	294.84	ug/l	100
44) Trichloroethene	7.22	130	7040	2.37	ug/l	98
52) Toluene	8.79	92	89062	13.57	ug/l	100
67) Ethyl Benzene	10.26	91	3446743	272.47	ug/l	100
68) m/p-Xylenes	10.37	106	2064890	423.16	ug/l	98
69) o-Xylene	10.70	106	231492	48.28	ug/l	99
73) Isopropylbenzene	11.02	105	412105	31.55	ug/l	100
78) n-propylbenzene	11.37	91	456574	30.48	ug/l	100
80) 1,3,5-Trimethylbenzene	11.51	105	1246403	112.91	ug/l	100
83) tert-Butylbenzene	11.77	119	23281	2.19	ug/l	95
84) 1,2,4-Trimethylbenzene	11.81	105	3052569	271.00	ug/l	97
85) sec-Butylbenzene	11.95	105	99228	7.50	ug/l	81
86) p-Isopropyltoluene	12.07	119	129001	10.78	ug/l	99
95) Naphthalene	13.84	128	562104	42.85	ug/l	98

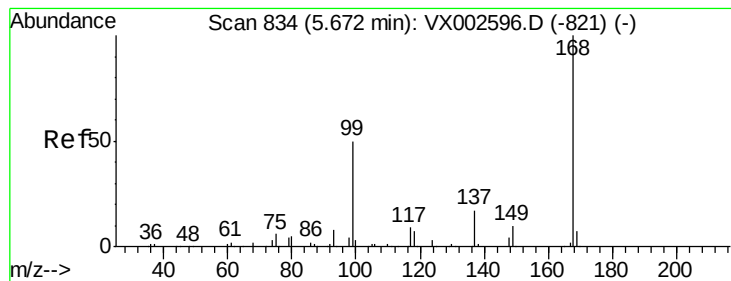
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX002847.D

Acq: 22 Jun 2018 22:38

Instrument :

MSVOA_X

ClientSampleId :

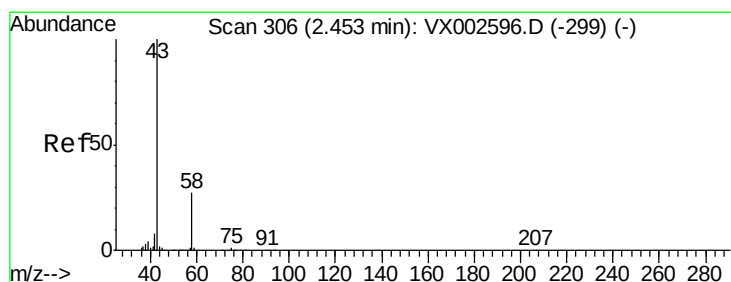
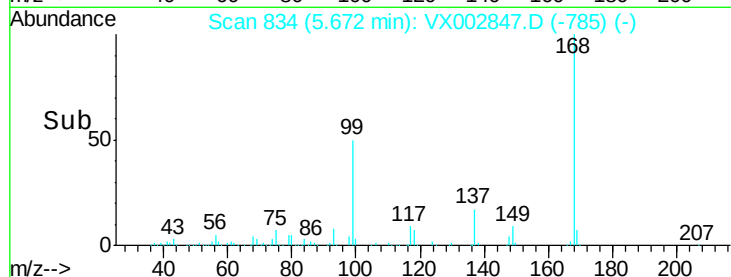
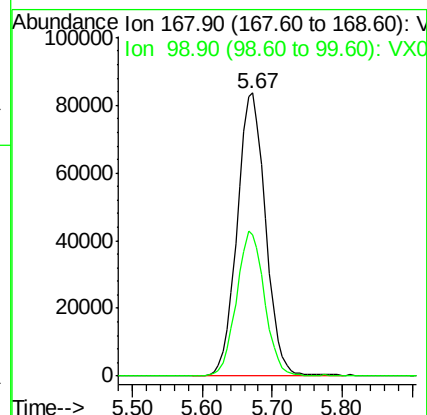
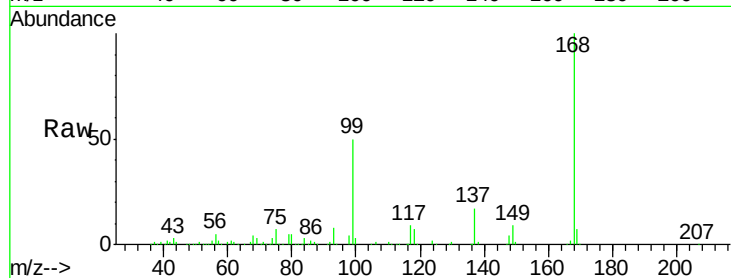
S83-0019

Tot Ion:168 Resp: 235871

Ion Ratio Lower Upper

168 100

99 50.0 39.3 58.9



#16

Acetone

Concen: 6.76 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002847.D

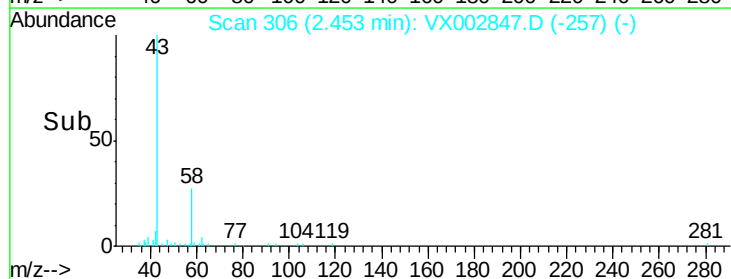
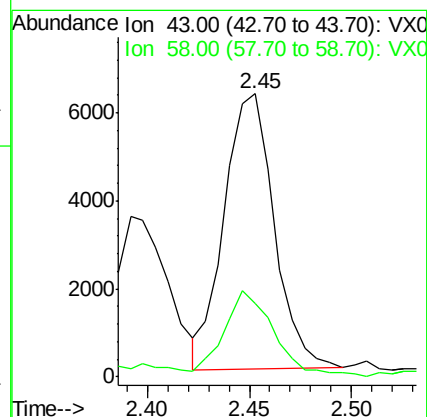
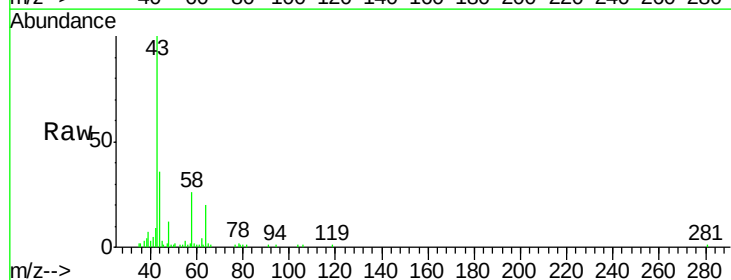
Acq: 22 Jun 2018 22:38

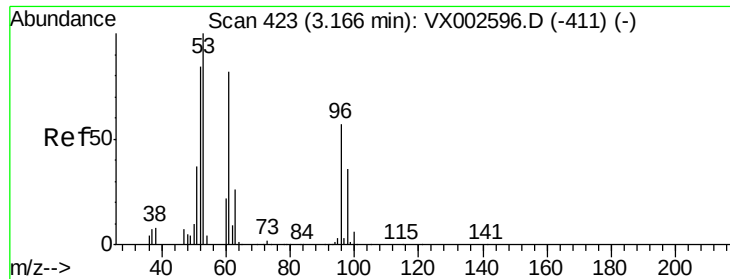
Tgt Ion: 43 Resp: 10689

Ion Ratio Lower Upper

43 100

58 24.8 22.1 33.1





#21

trans-1,2-Dichloroethene

Concen: 0.65 ug/l

RT: 3.17 min Scan# 423

Delta R.T. 0.00 min

Lab File: VX002847.D

Acq: 22 Jun 2018 22:38

Instrument :

MSVOA_X

ClientSampleId :

S83-0019

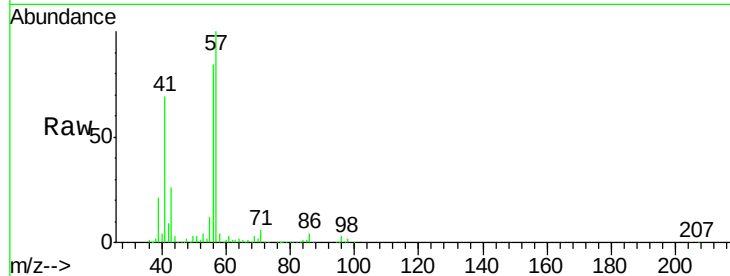
Tot Ion: 96 Resp: 1870

Ion Ratio Lower Upper

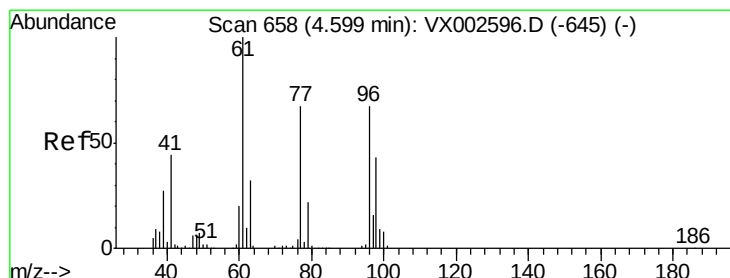
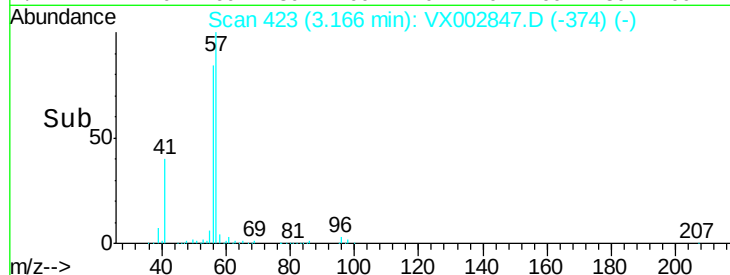
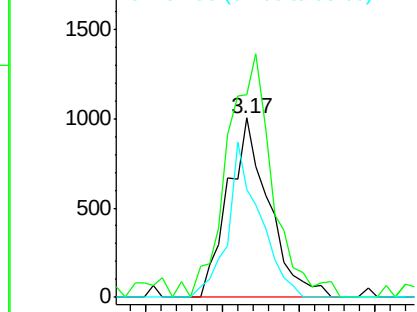
96 100

61 113.2 117.0 175.4#

98 60.2 52.4 78.6



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 0.53 ug/l

RT: 4.61 min Scan# 660

Delta R.T. 0.01 min

Lab File: VX002847.D

Acq: 22 Jun 2018 22:38

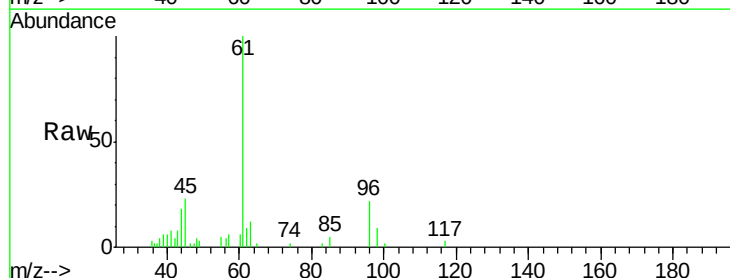
Tgt Ion: 96 Resp: 1541

Ion Ratio Lower Upper

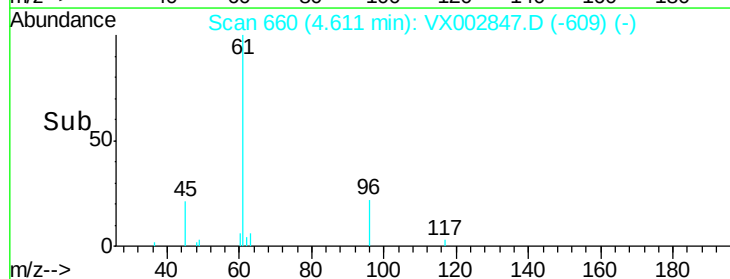
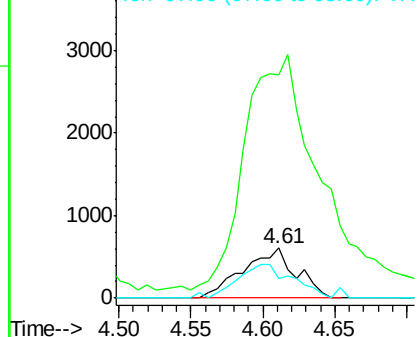
96 100

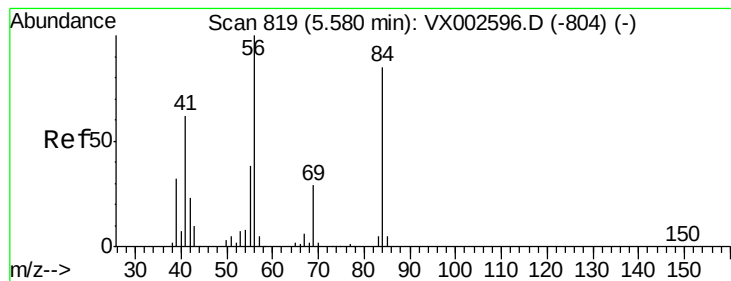
61 695.1 0.0 330.2#

98 71.6 0.0 130.2



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0





#31

Cyclohexane

Concen: 61.11 ug/l

RT: 5.58 min Scan# 819

Delta R.T. 0.00 min

Lab File: VX002847.D

Acq: 22 Jun 2018 22:38

Instrument :

MSVOA_X

ClientSampleId :

S83-0019

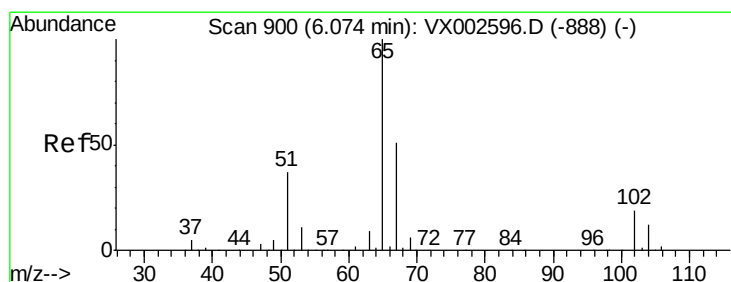
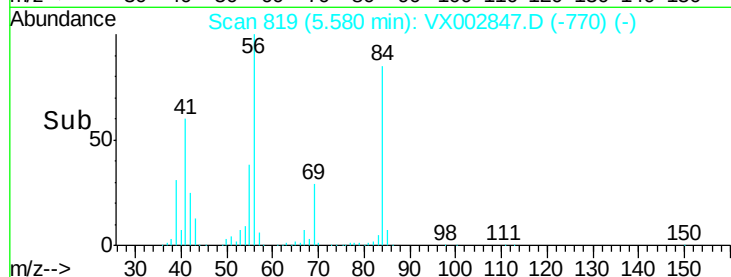
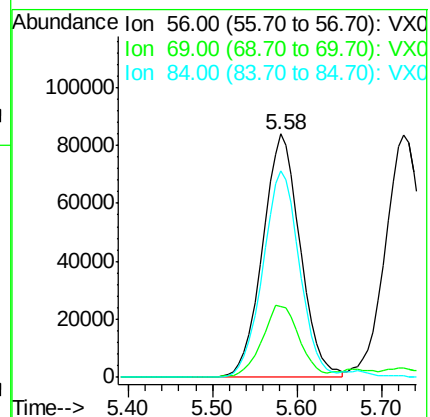
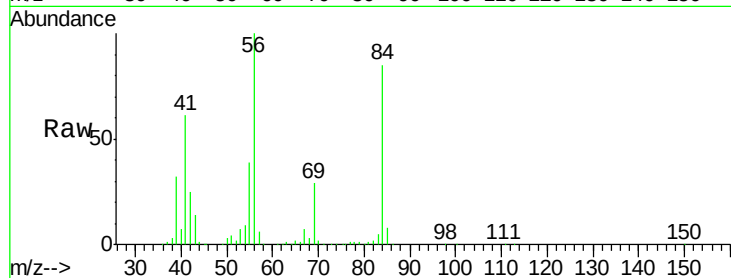
Tot Ion: 56 Resp: 258538

Ion Ratio Lower Upper

56 100

69 28.9 23.7 35.5

84 85.0 64.1 96.1



#33

1,2-Dichloroethane-d4

Concen: 43.24 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002847.D

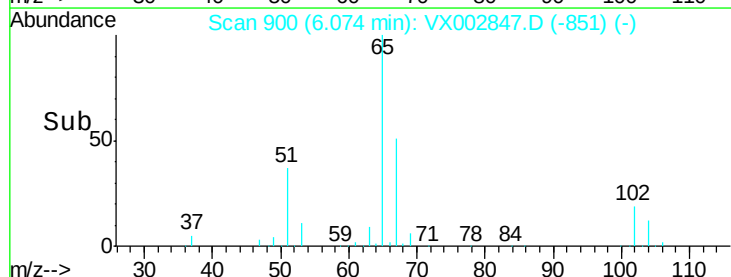
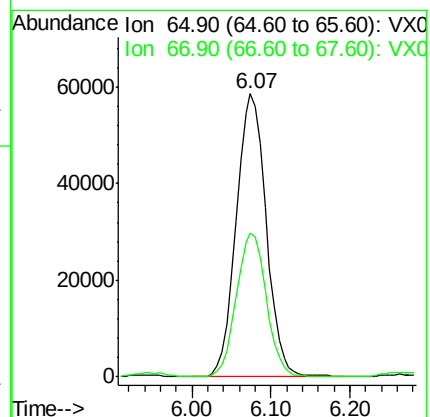
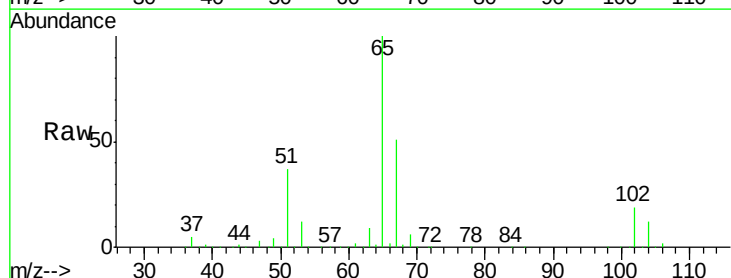
Acq: 22 Jun 2018 22:38

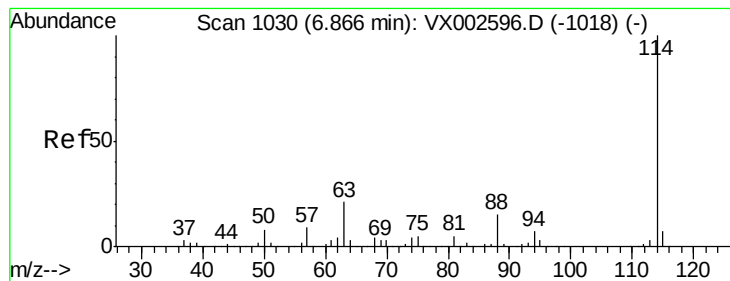
Tgt Ion: 65 Resp: 154985

Ion Ratio Lower Upper

65 100

67 50.6 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX002847.D

Acq: 22 Jun 2018 22:38

Instrument :

MSVOA_X

ClientSampleId :

S83-0019

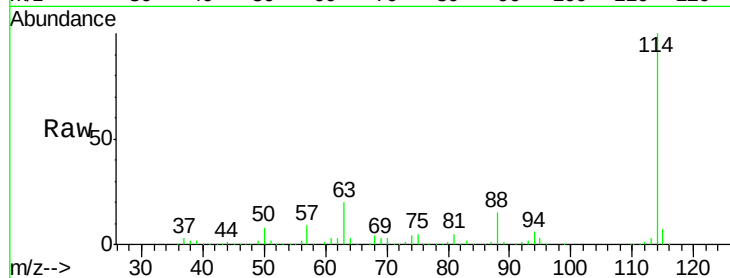
Tot Ion:114 Resp: 323006

Ion Ratio Lower Upper

114 100

63 20.4 0.0 41.4

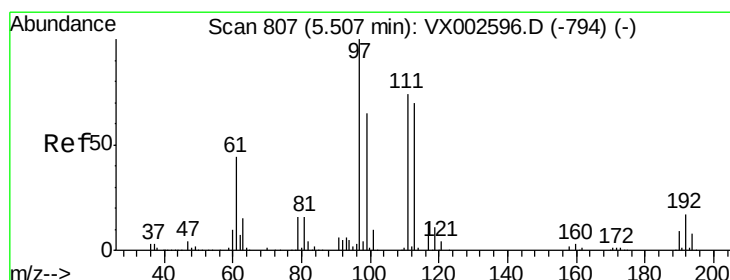
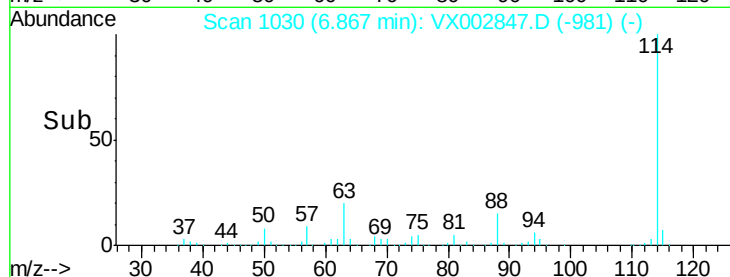
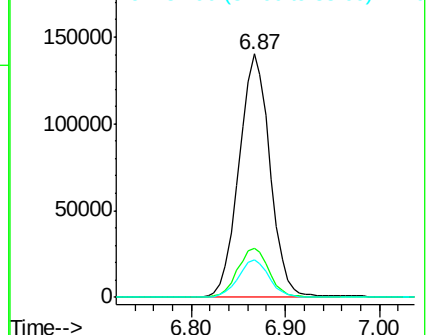
88 15.2 0.0 30.0



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: 47.44 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX002847.D

Acq: 22 Jun 2018 22:38

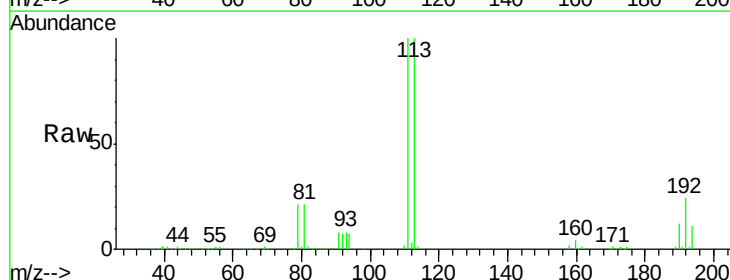
Tgt Ion:113 Resp: 122308

Ion Ratio Lower Upper

113 100

111 102.3 81.4 122.0

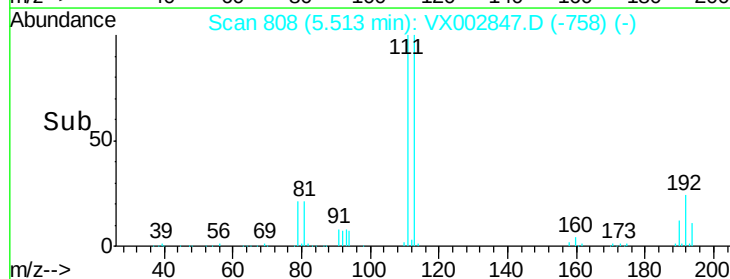
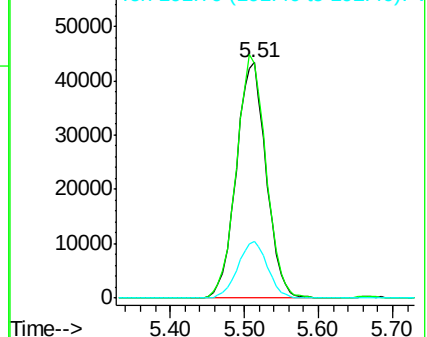
192 23.9 19.1 28.7

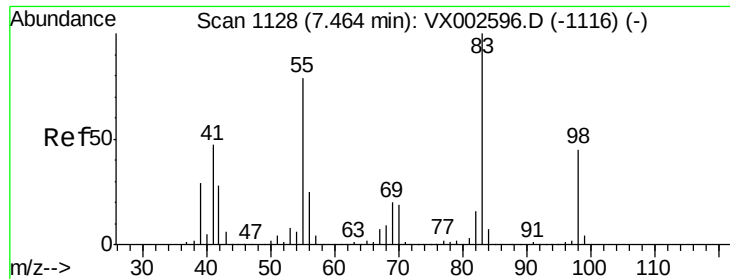


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

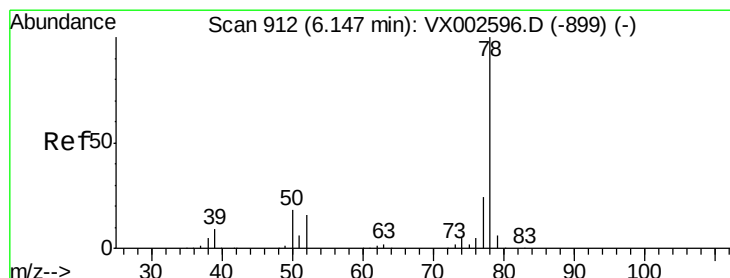
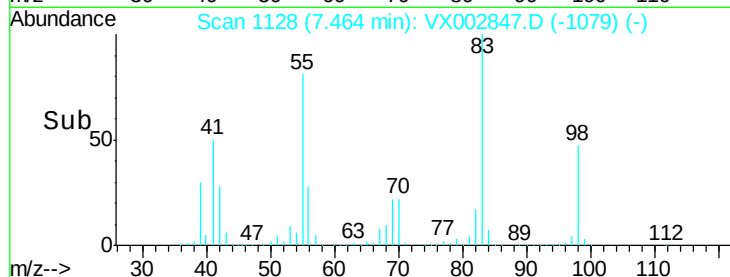
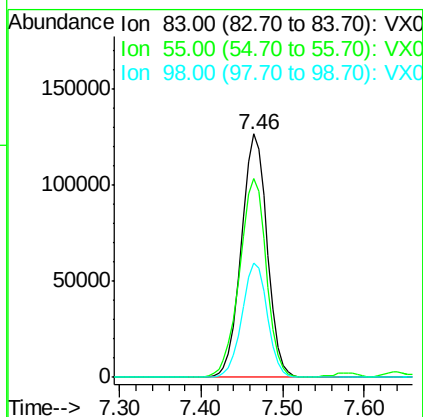
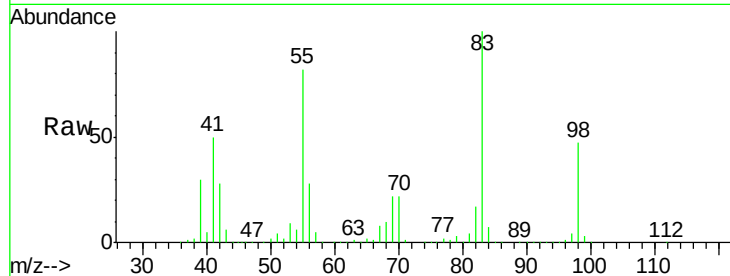




#39
Methylvlcyclohexane
Concen: 69.41 ug/l
RT: 7.46 min Scan# 1128
Delta R.T. 0.00 min
Lab File: VX002847.D
Acq: 22 Jun 2018 22:38

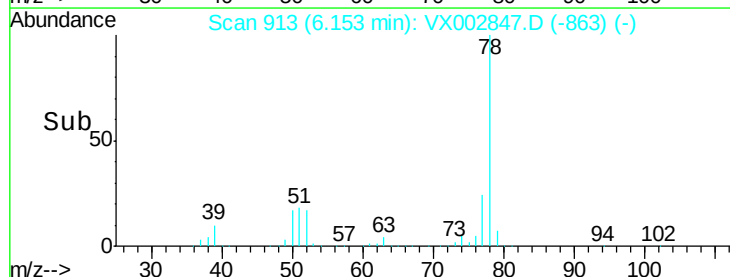
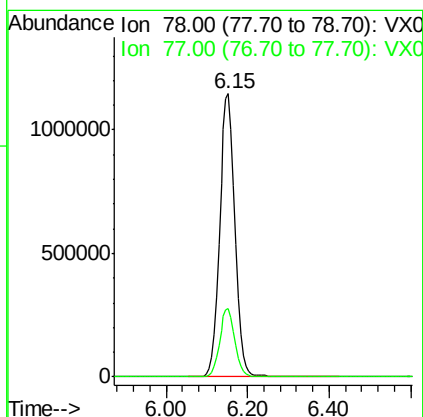
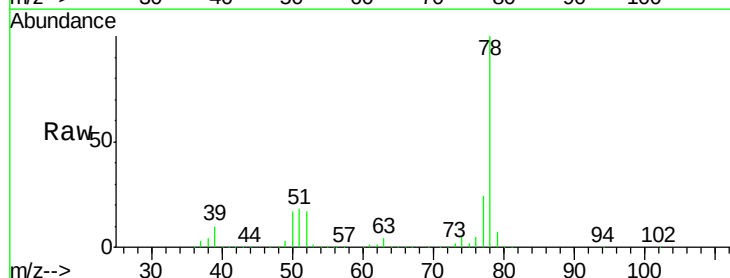
Instrument :
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S83-0019

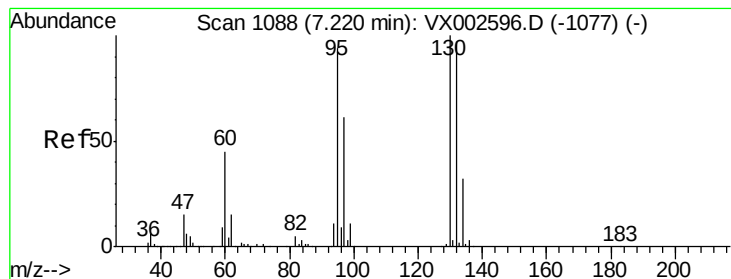
Tot Ion: 83 Resp: 278355
Ion Ratio Lower Upper
83 100
55 81.5 65.4 98.0
98 47.0 37.4 56.0



#40
Benzene
Concen: 294.84 ug/l
RT: 6.15 min Scan# 913
Delta R.T. 0.01 min
Lab File: VX002847.D
Acq: 22 Jun 2018 22:38

Tgt Ion: 78 Resp: 3032847
Ion Ratio Lower Upper
78 100
77 24.1 19.1 28.7





#44

Trichloroethene

Concen: 2.37 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.00 min

Lab File: VX002847.D

Acq: 22 Jun 2018 22:38

Instrument :

MSVOA_X

ClientSampleId :

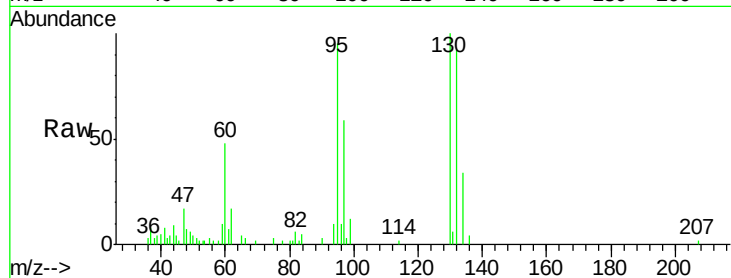
S83-0019

Tot Ion:130 Resp: 7040

Ion Ratio Lower Upper

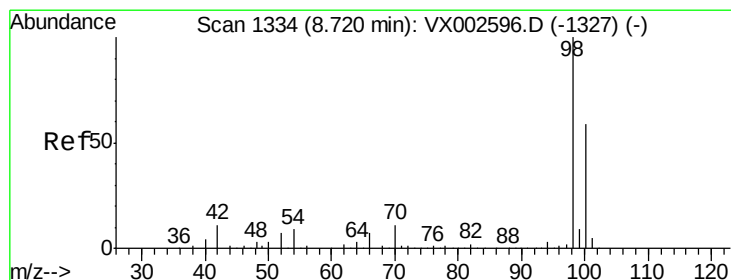
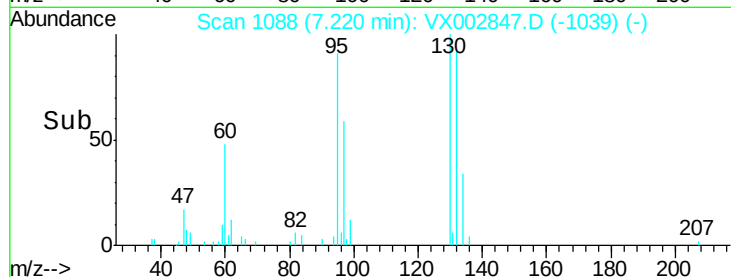
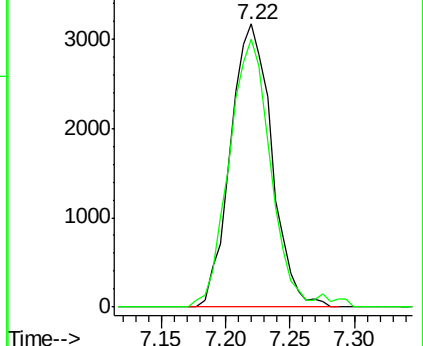
130 100

95 94.6 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 48.00 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002847.D

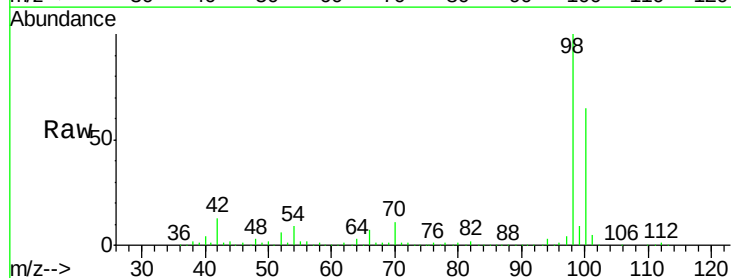
Acq: 22 Jun 2018 22:38

Tgt Ion: 98 Resp: 469861

Ion Ratio Lower Upper

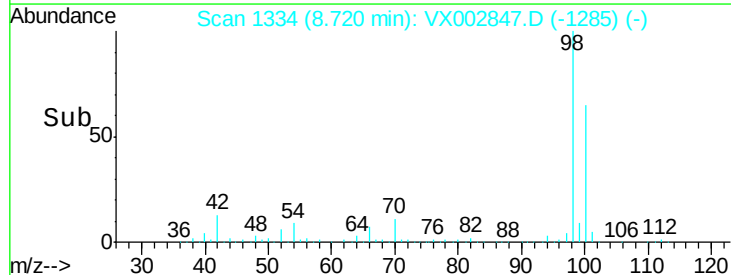
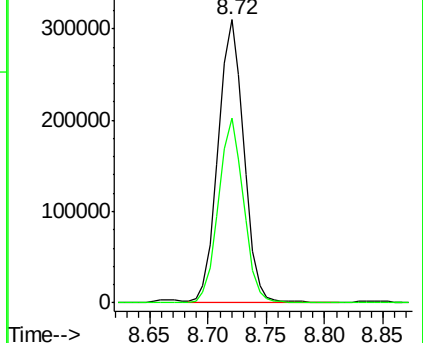
98 100

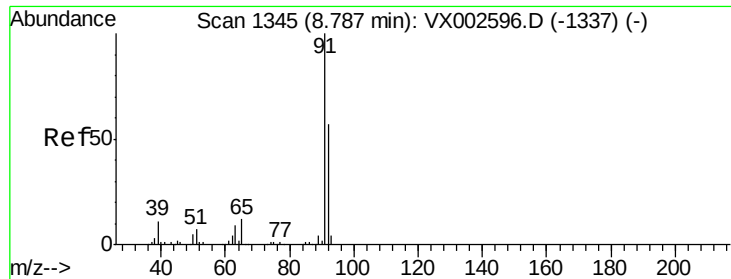
100 64.4 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#52

Toluene

Concen: 13.57 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. 0.00 min

Lab File: VX002847.D

Acq: 22 Jun 2018 22:38

Instrument :

MSVOA_X

ClientSampleId :

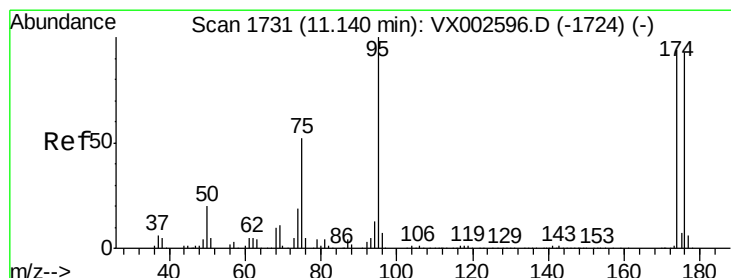
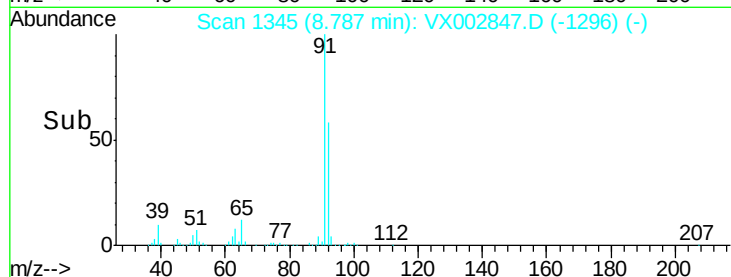
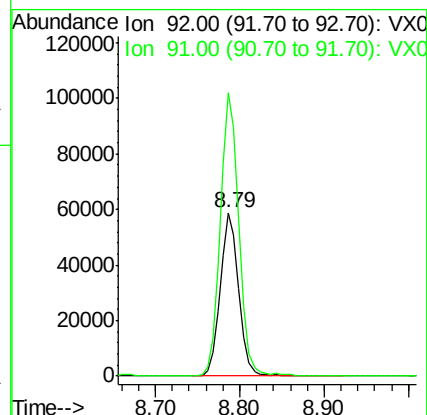
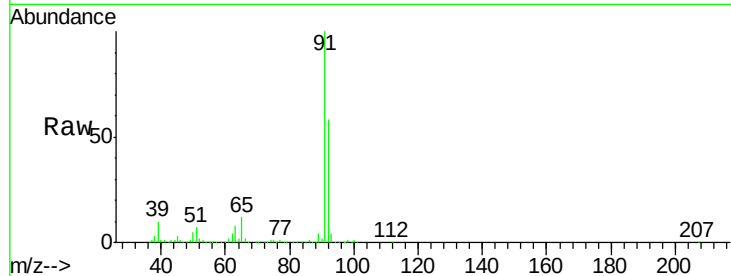
S83-0019

Tot Ion: 92 Resp: 89062

Ion Ratio Lower Upper

92 100

91 174.9 140.4 210.6



#62

4-Bromofluorobenzene

Concen: 47.14 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002847.D

Acq: 22 Jun 2018 22:38

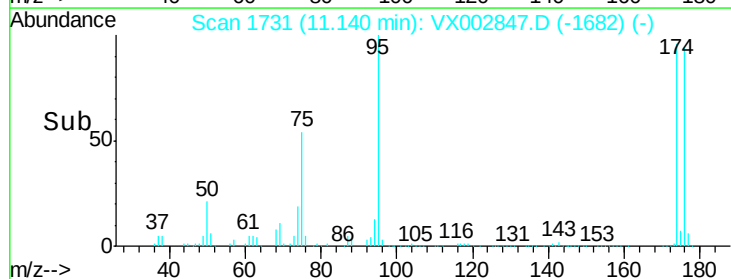
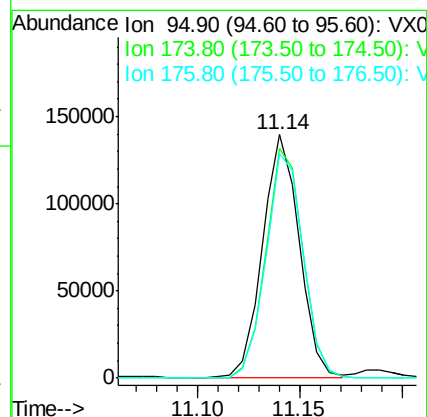
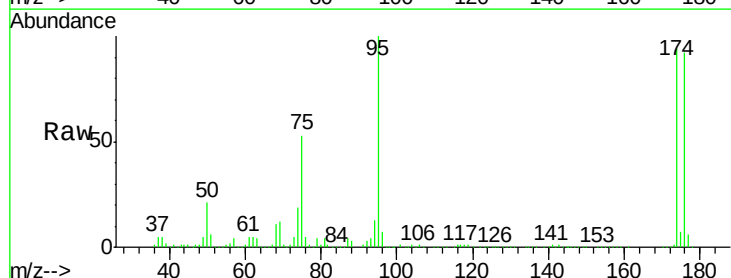
Tgt Ion: 95 Resp: 174861

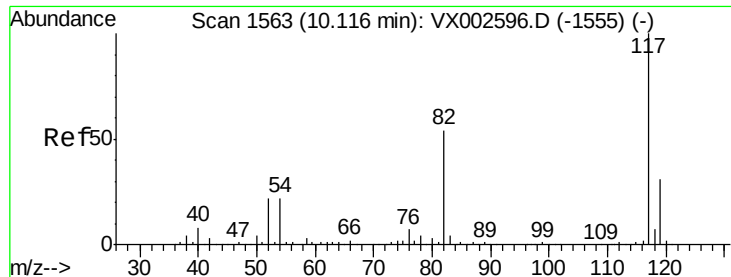
Ion Ratio Lower Upper

95 100

174 96.1 0.0 187.4

176 94.2 0.0 181.0

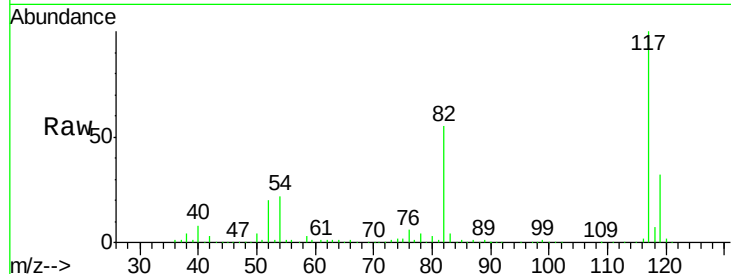




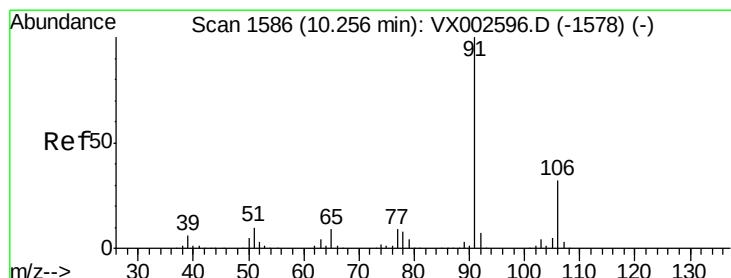
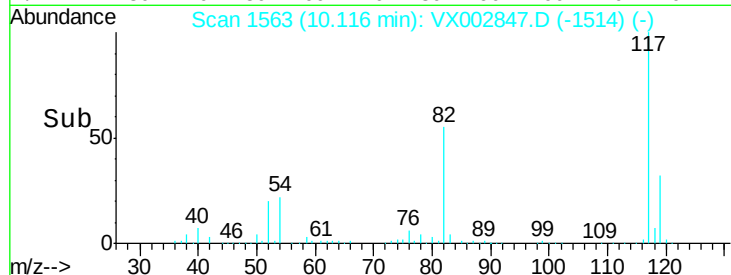
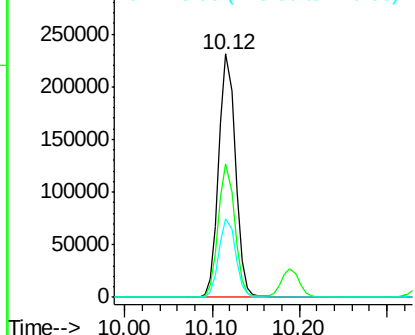
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002847.D
Acq: 22 Jun 2018 22:38

Instrument :
MSVOA_X
ClientSampled :
S83-0019

Tot Ion:117 Resp: 305392
Ion Ratio Lower Upper
117 100
82 54.7 45.0 67.4
119 32.4 25.8 38.6

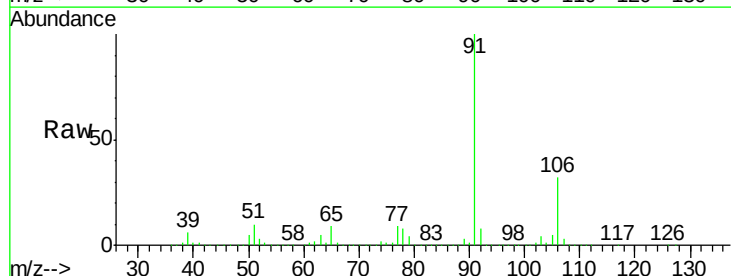


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

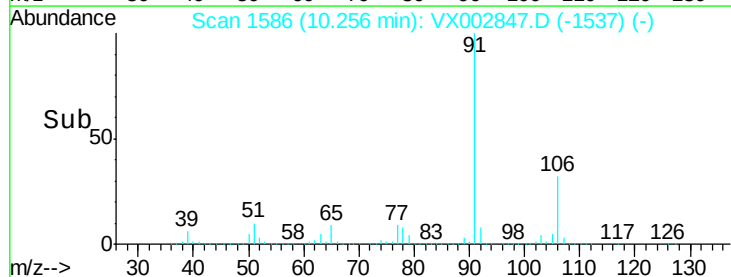
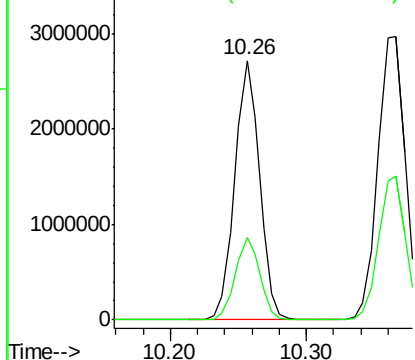


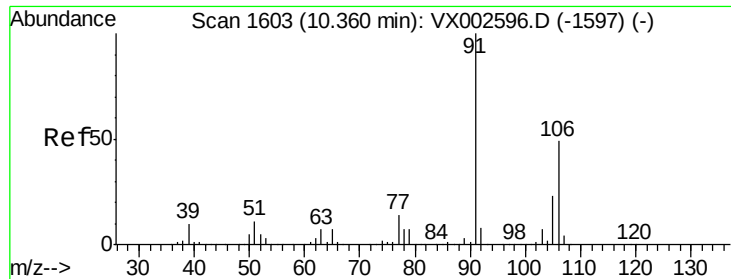
#67
Ethyl Benzene
Concen: 272.47 ug/l
RT: 10.26 min Scan# 1586
Delta R.T. 0.00 min
Lab File: VX002847.D
Acq: 22 Jun 2018 22:38

Tgt Ion: 91 Resp: 3446743
Ion Ratio Lower Upper
91 100
106 31.7 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: 423.16 ug/l

RT: 10.37 min Scan# 1604

Delta R.T. 0.01 min

Lab File: VX002847.D

Acq: 22 Jun 2018 22:38

Instrument :

MSVOA_X

ClientSampleId :

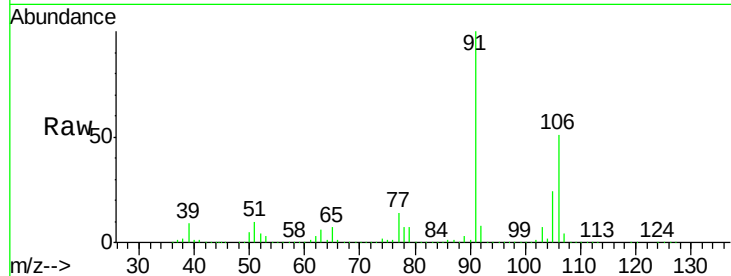
S83-0019

Tot Ion:106 Resp: 2064890

Ion Ratio Lower Upper

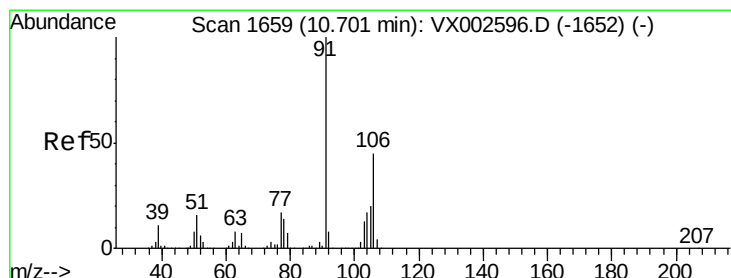
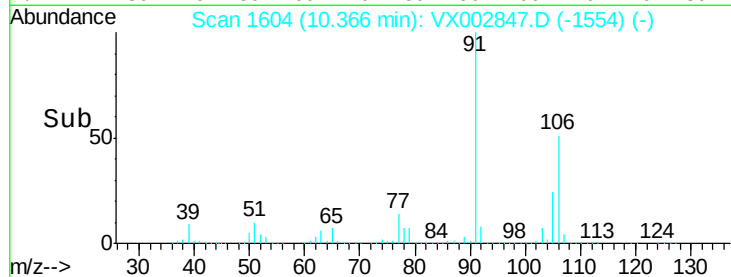
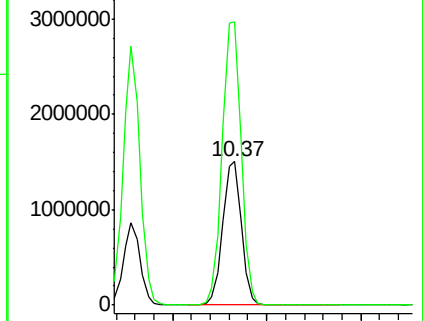
106 100

91 201.4 163.4 245.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#69

o-Xylene

Concen: 48.28 ug/l

RT: 10.70 min Scan# 1659

Delta R.T. 0.00 min

Lab File: VX002847.D

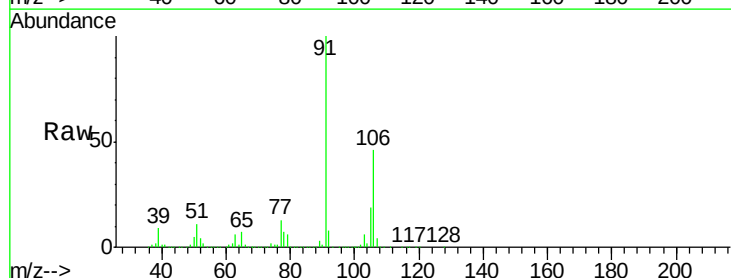
Acq: 22 Jun 2018 22:38

Tgt Ion:106 Resp: 231492

Ion Ratio Lower Upper

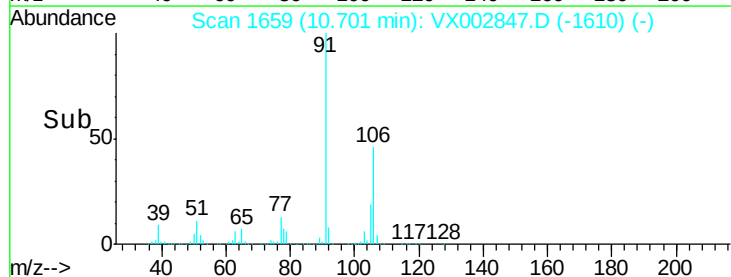
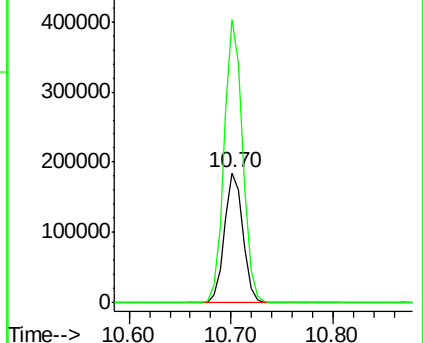
106 100

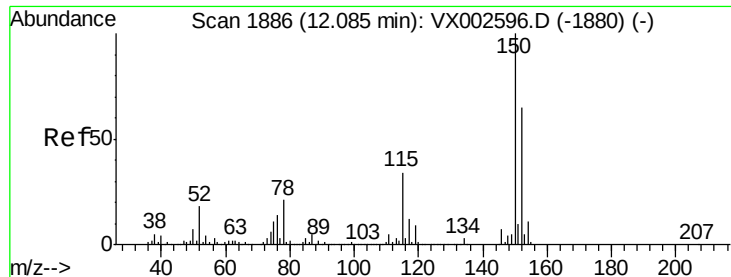
91 217.9 108.2 324.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX002847.D

Acq: 22 Jun 2018 22:38

Instrument :

MSVOA_X

ClientSampled :

S83-0019

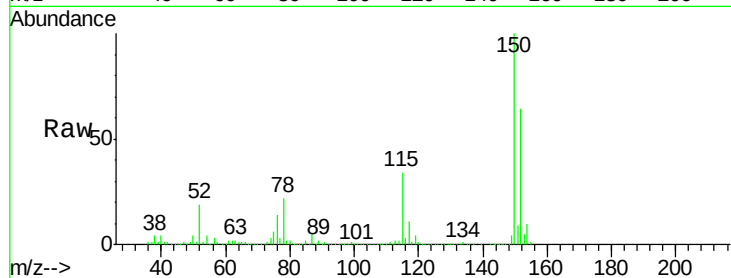
Tot Ion:152 Resp: 195304

Ion Ratio Lower Upper

152 100

115 59.2 40.1 120.2

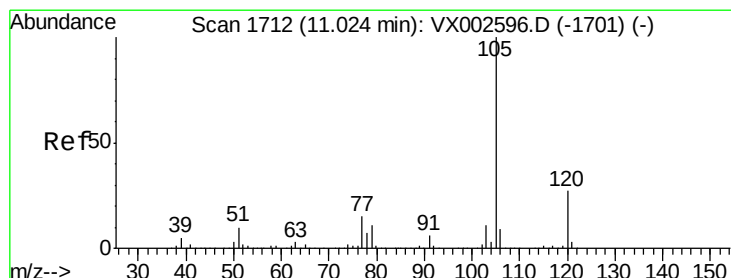
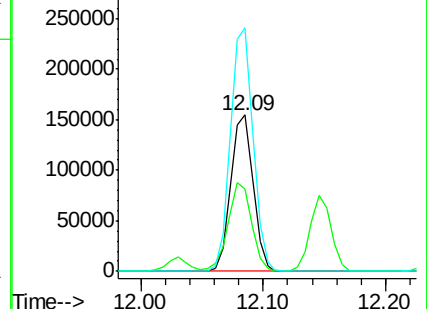
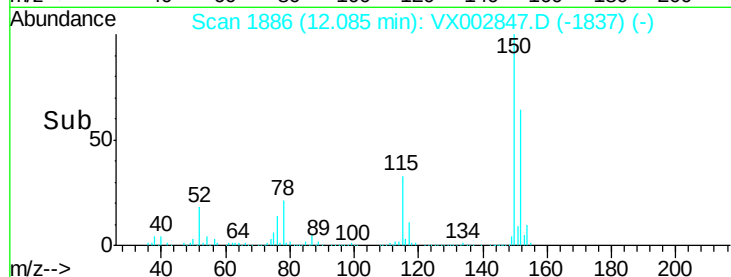
150 156.6 0.0 347.2



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: 31.55 ug/l

RT: 11.02 min Scan# 1712

Delta R.T. 0.00 min

Lab File: VX002847.D

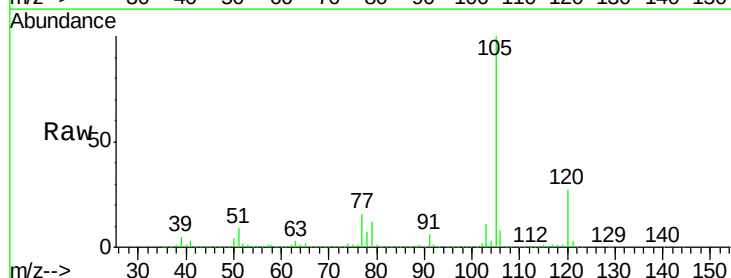
Acq: 22 Jun 2018 22:38

Tgt Ion:105 Resp: 412105

Ion Ratio Lower Upper

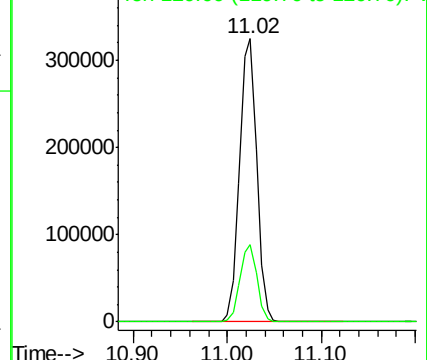
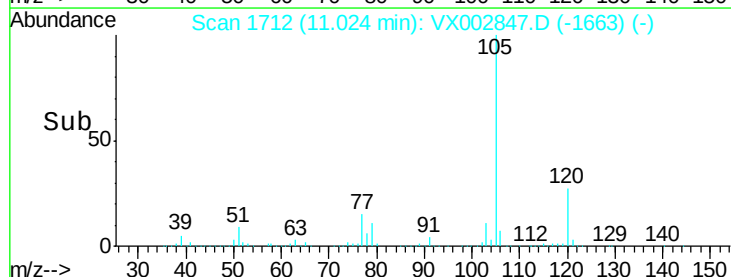
105 100

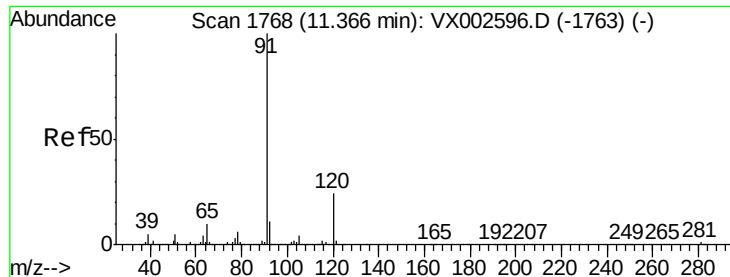
120 26.9 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 30.48 ug/l

RT: 11.37 min Scan# 1768

Delta R.T. 0.00 min

Lab File: VX002847.D

Acq: 22 Jun 2018 22:38

Instrument :

MSVOA_X

ClientSampled :

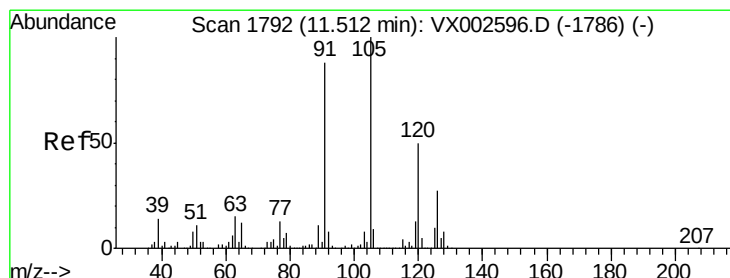
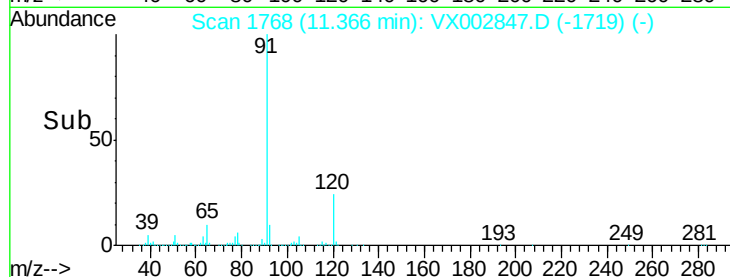
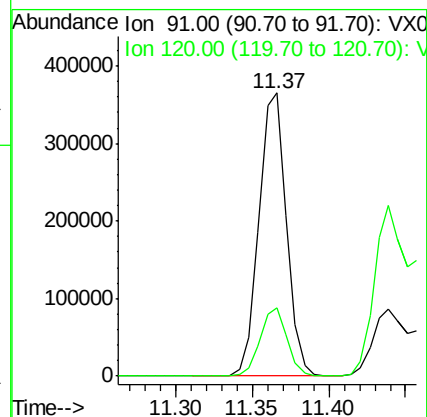
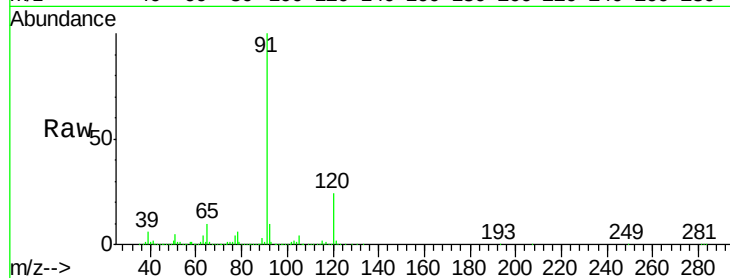
S83-0019

Tot Ion: 91 Resp: 456574

Ion Ratio Lower Upper

91 100

120 23.5 11.8 35.4



#80

1,3,5-Trimethylbenzene

Concen: 112.91 ug/l

RT: 11.51 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX002847.D

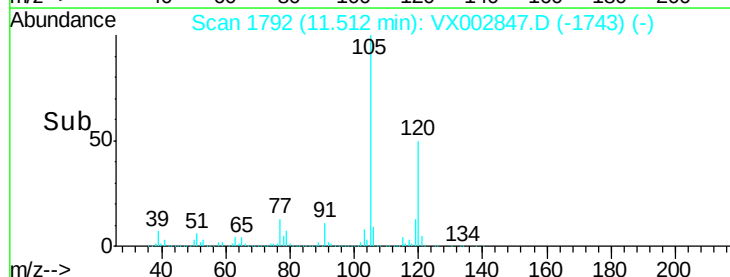
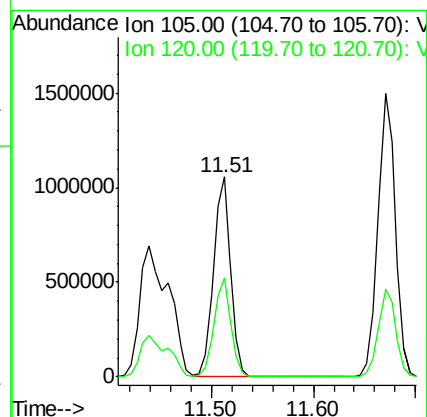
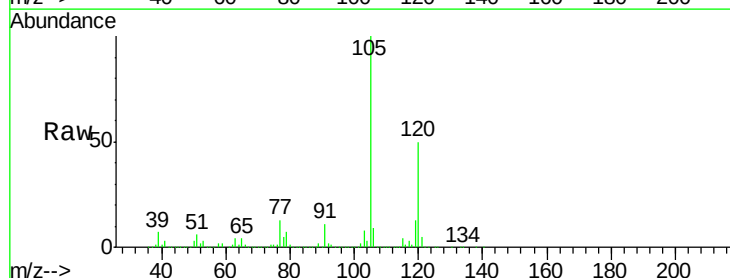
Acq: 22 Jun 2018 22:38

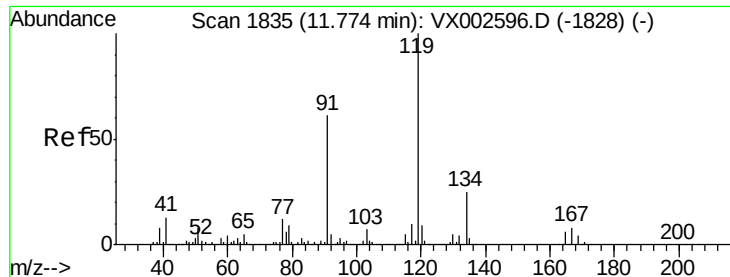
Tgt Ion: 105 Resp: 1246403

Ion Ratio Lower Upper

105 100

120 48.9 24.4 73.4

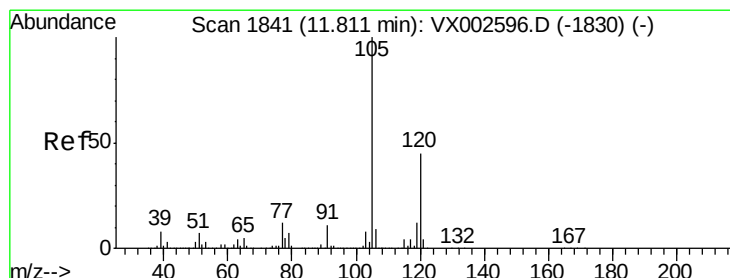
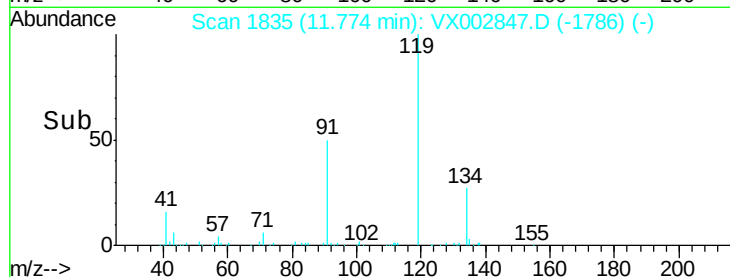
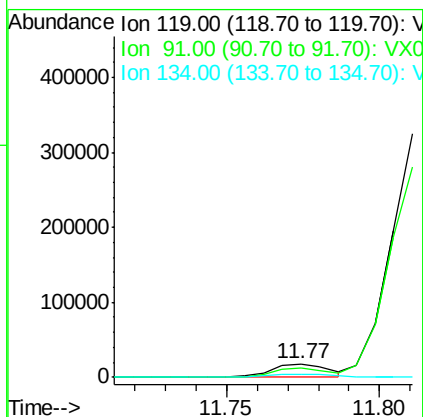
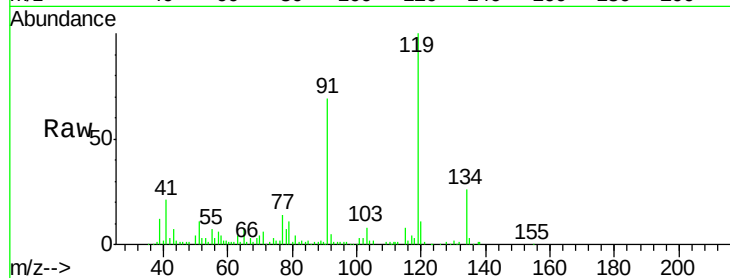




#83
tert-Butylbenzene
Concen: 2.19 ug/l
RT: 11.77 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX002847.D
Acq: 22 Jun 2018 22:38

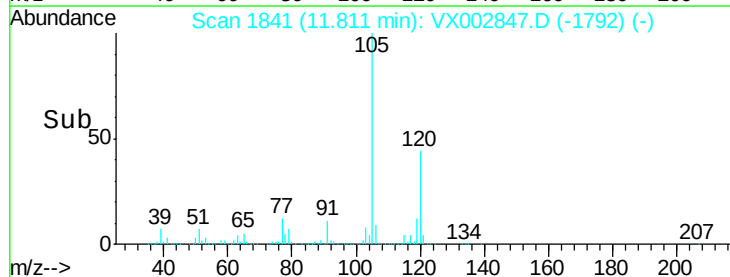
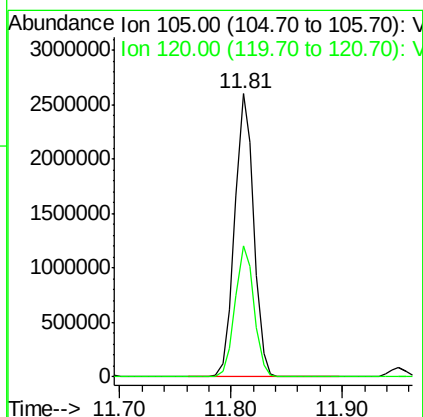
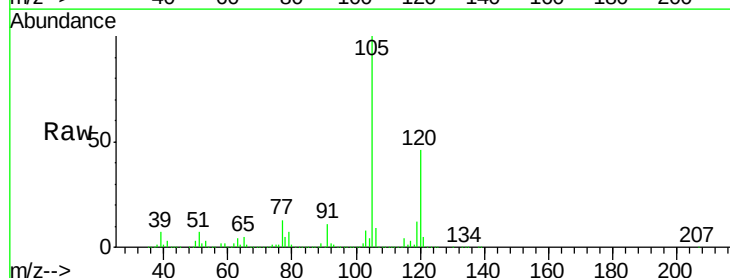
Instrument :
MSVOA_X
ClientSampleId :
S83-0019

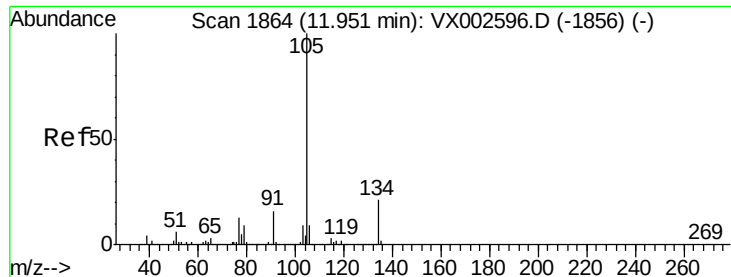
Tot Ion:119 Resp: 23281
Ion Ratio Lower Upper
119 100
91 64.9 30.3 90.9
134 25.6 11.7 35.1



#84
1,2,4-Trimethylbenzene
Concen: 271.00 ug/l
RT: 11.81 min Scan# 1841
Delta R.T. 0.00 min
Lab File: VX002847.D
Acq: 22 Jun 2018 22:38

Tgt Ion:105 Resp: 3052569
Ion Ratio Lower Upper
105 100
120 46.3 22.3 66.8

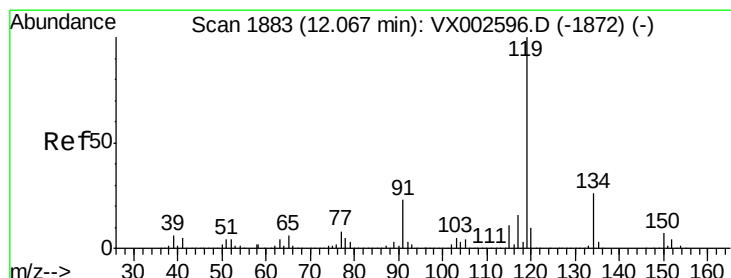
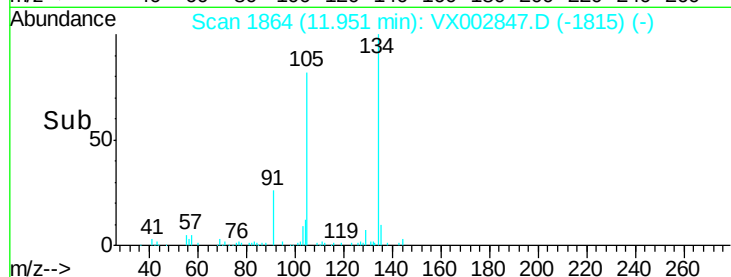
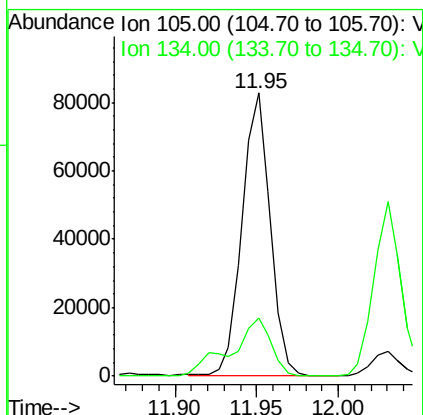
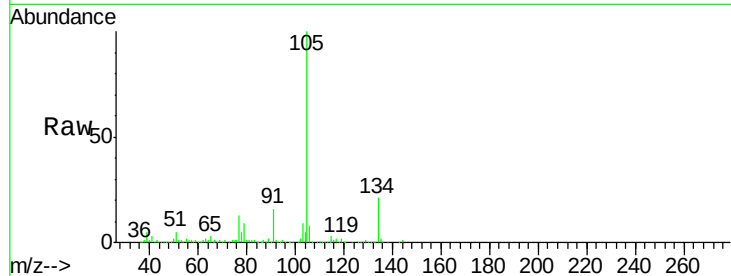




#85
 sec-Butylbenzene
 Concen: 7.50 ug/l
 RT: 11.95 min Scan# 1864
 Delta R.T. 0.00 min
 Lab File: VX002847.D
 Acq: 22 Jun 2018 22:38

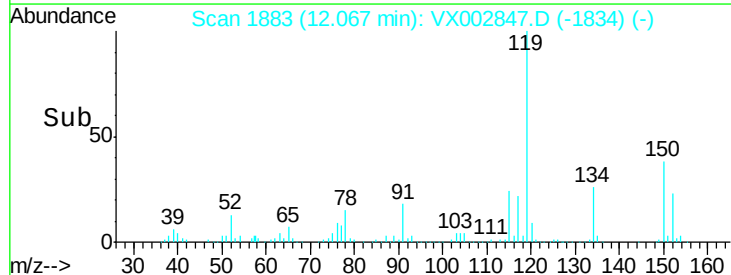
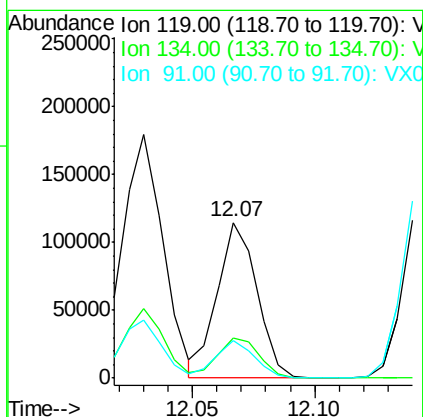
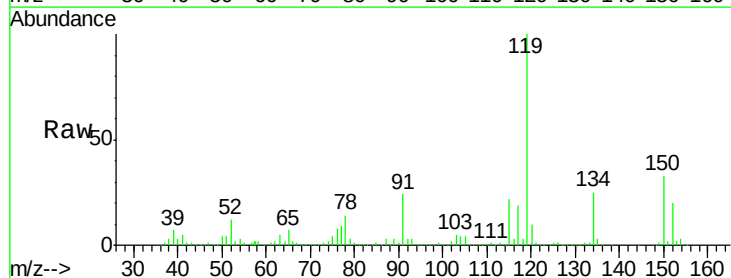
Instrument :
 MSVOA_X
 ClientSampled :
 S83-0019

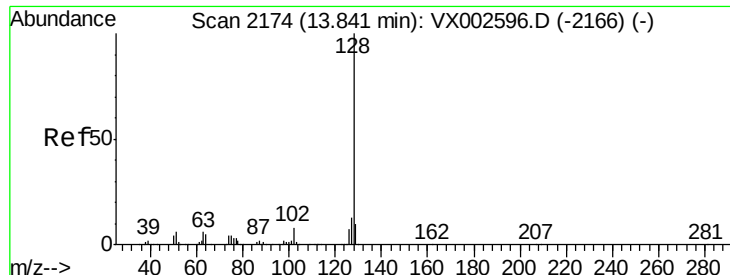
Tot Ion:105 Resp: 99228
 Ion Ratio Lower Upper
 105 100
 134 29.5 10.4 31.1



#86
 p-Isopropyltoluene
 Concen: 10.78 ug/l
 RT: 12.07 min Scan# 1883
 Delta R.T. 0.00 min
 Lab File: VX002847.D
 Acq: 22 Jun 2018 22:38

Tgt Ion:119 Resp: 129001
 Ion Ratio Lower Upper
 119 100
 134 27.3 13.4 40.1
 91 23.8 11.9 35.7

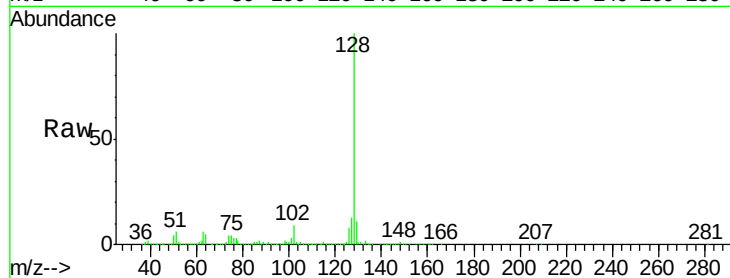




#95
Naphthalene
Concen: 42.85 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. 0.00 min
Lab File: VX002847.D
Acq: 22 Jun 2018 22:38

Instrument :
MSVOA_X
ClientSampleId :
S83-0019

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.4	15.6
129	12.1	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

