

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061518\
 Data File : VX002621.D
 Acq On : 16 Jun 2018 02:21
 Operator : JC/MD
 Sample : J3467-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 16 03:52:11 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	232738	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	334099	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	307561	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	175606	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	154622	43.72	ug/l	0.00
Spiked Amount			Recovery	=	87.44%	
35) Dibromofluoromethane	5.51	113	120964	45.37	ug/l	0.00
Spiked Amount			Recovery	=	90.74%	
50) Toluene-d8	8.72	98	467832	46.21	ug/l	0.00
Spiked Amount			Recovery	=	92.42%	
62) 4-Bromofluorobenzene	11.14	95	165552	43.15	ug/l	0.00
Spiked Amount			Recovery	=	86.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	788	0.43	ug/l #	63
6) Chloroethane	1.72	64	582	0.29	ug/l #	43
10) Methyl Iodide	2.51	142	1317	5.50	ug/l #	87
13) Acrolein	2.29	56	140	7.26	ug/l #	20
16) Acetone	2.45	43	6280	4.02	ug/l	99
17) Carbon Disulfide	2.57	76	1323	0.21	ug/l #	91
20) Methylene Chloride	2.86	84	985	0.31	ug/l #	87
36) 1,1-Dichloropropene	5.67	75	15783	4.45	ug/l #	52
38) Carbon Tetrachloride	5.67	117	21437	6.07	ug/l #	16
53) t-1,3-Dichloropropene	8.57	75	38	2.40	ug/l #	43
54) cis-1,3-Dichloropropene	9.29	75	25	3.22	ug/l #	32
60) Dibromochloromethane	9.59	129	21	3.77	ug/l	79
67) Ethyl Benzene	10.26	91	5041	0.40	ug/l	95
68) m/p-Xylenes	10.37	106	5078	1.03	ug/l	94
69) o-Xylene	10.71	106	1030	0.21	ug/l	96
76) 1,2,3-Trichloropropane	11.14	75	88290	26.64	ug/l #	33
80) 1,3,5-Trimethylbenzene	11.51	105	3071	0.31	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.14	75	88290	82.31	ug/l #	7
84) 1,2,4-Trimethylbenzene	11.81	105	7688	0.76	ug/l	97
90) Hexachloroethane	12.61	117	266	2.78	ug/l #	1
95) Naphthalene	13.84	128	5661	0.48	ug/l #	95

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002621.D

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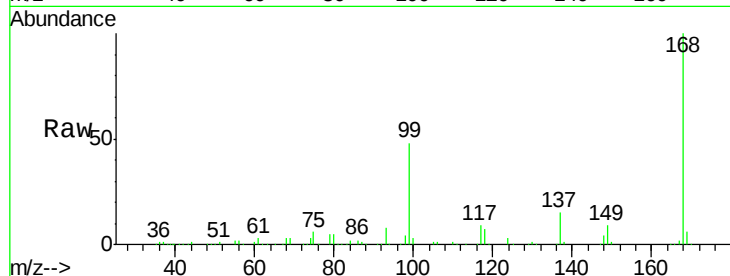
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 232738

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

5.67

80000

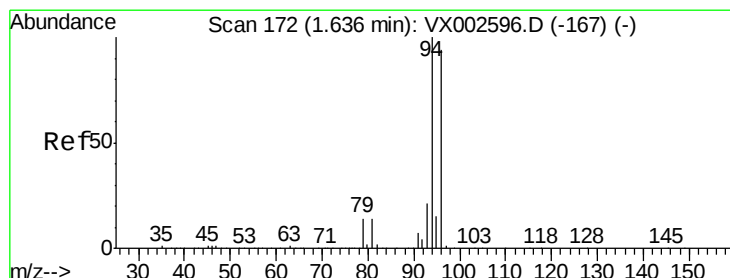
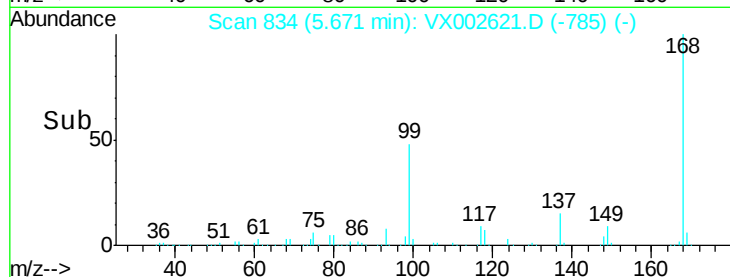
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.43 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002621.D

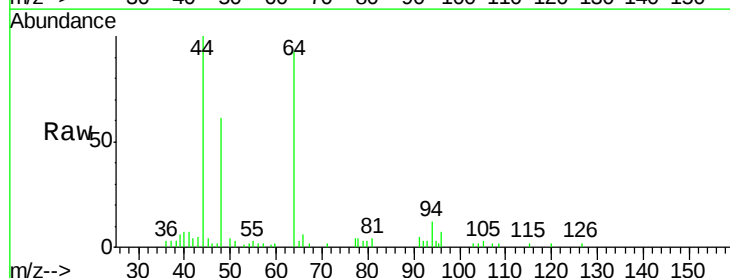
Acq: 16 Jun 2018 02:21

Tgt Ion: 94 Resp: 788

Ion Ratio Lower Upper

94 100

96 58.4 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

400

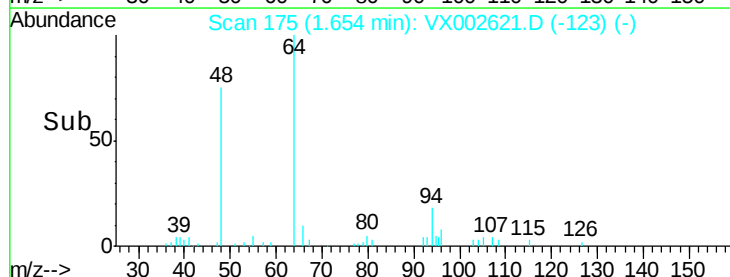
300

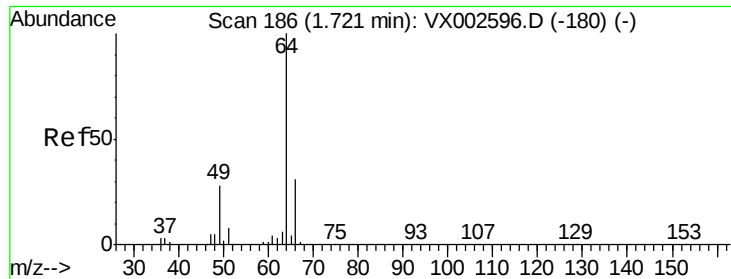
200

100

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 0.29 ug/l

RT: 1.72 min Scan# 186

Delta R.T. -0.00 min

Lab File: VX002621.D

Acq: 16 Jun 2018 02:21

Instrument :

MSVOA_X

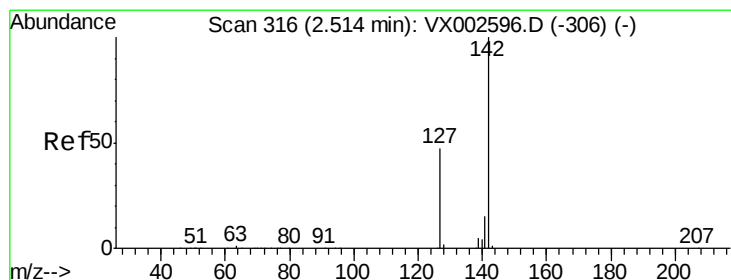
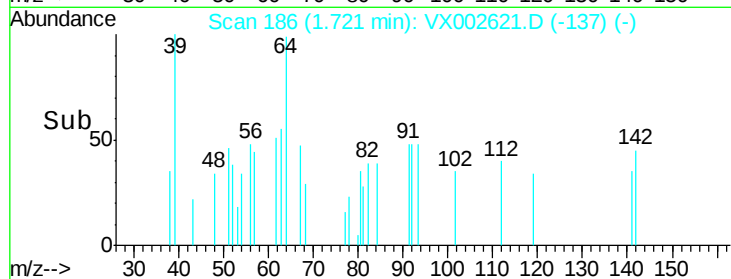
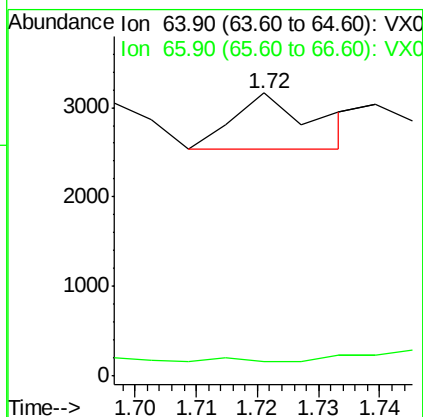
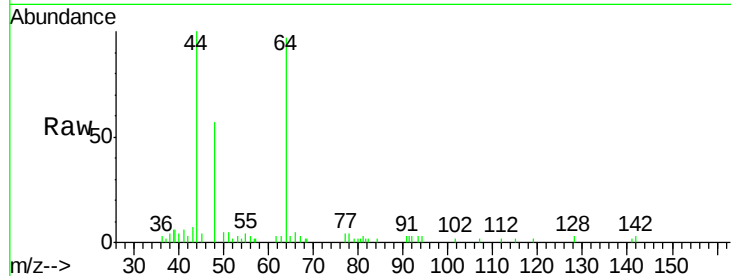
ClientSampleId :

Tot Ion: 64 Resp: 582

Ion Ratio Lower Upper

64 100

66 0.3 25.5 38.3#



#10

Methyl Iodide

Concen: 5.50 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX002621.D

Acq: 16 Jun 2018 02:21

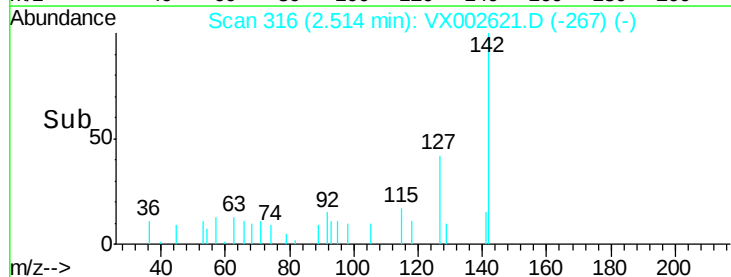
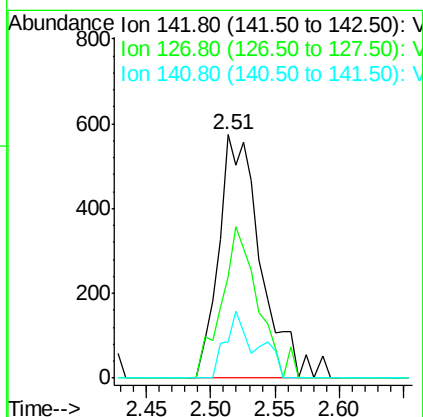
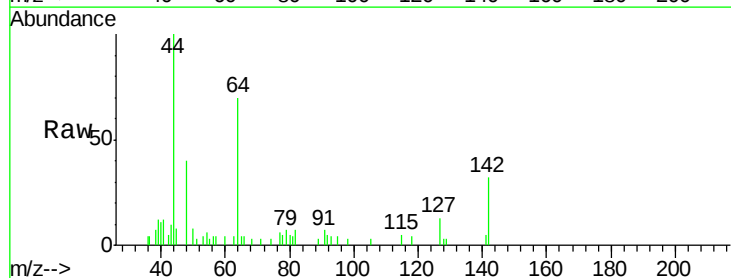
Tgt Ion:142 Resp: 1317

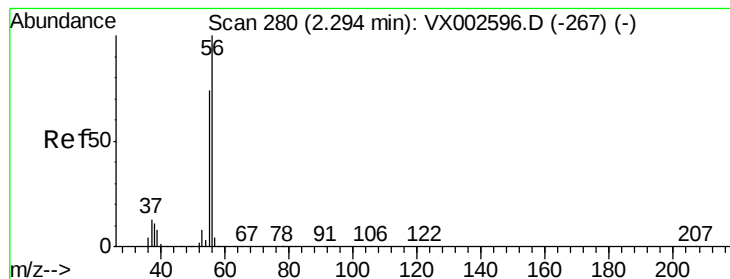
Ion Ratio Lower Upper

142 100

127 53.9 36.6 55.0

141 20.1 11.3 16.9#





#13

Acrolein

Concen: 7.26 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX002621.D

Acq: 16 Jun 2018 02:21

Instrument :

MSVOA_X

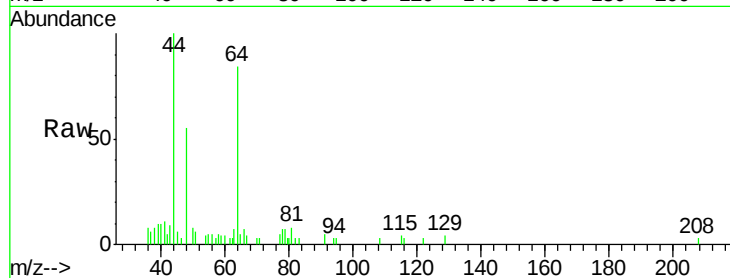
ClientSampled :

Tot Ion: 56 Resp: 140

Ion Ratio Lower Upper

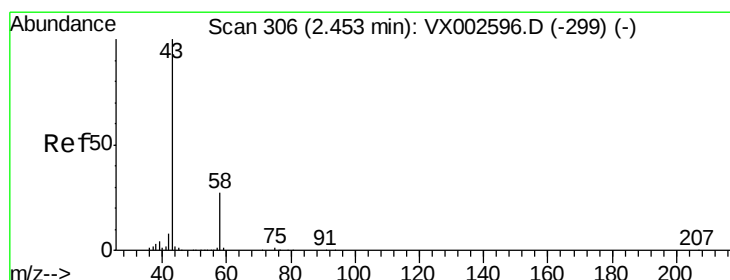
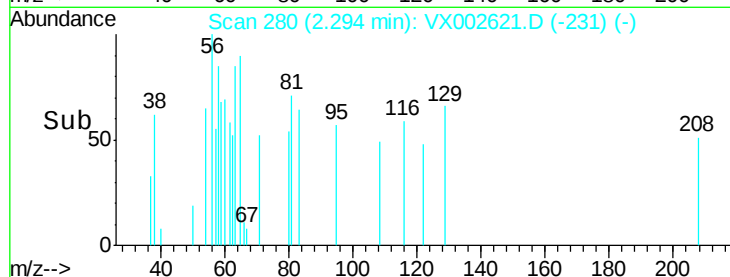
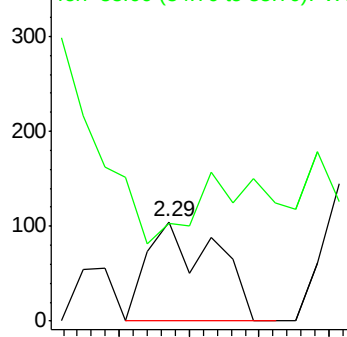
56 100

55 137.9 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 4.02 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX002621.D

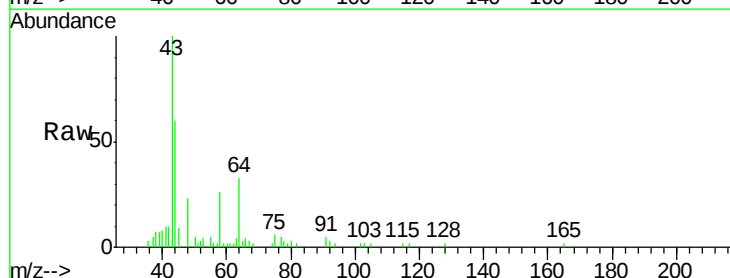
Acq: 16 Jun 2018 02:21

Tgt Ion: 43 Resp: 6280

Ion Ratio Lower Upper

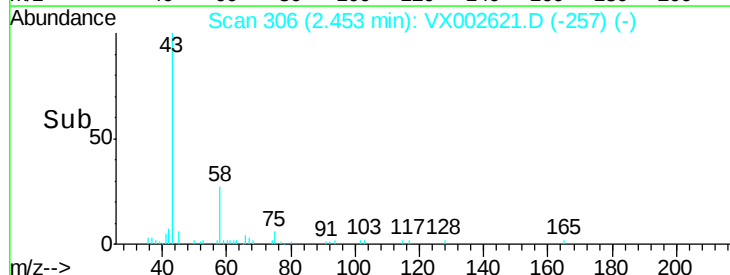
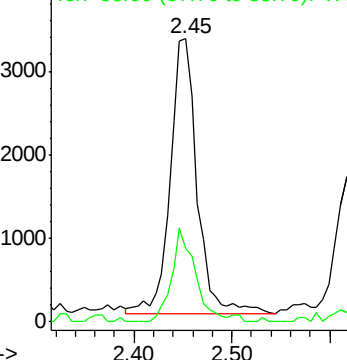
43 100

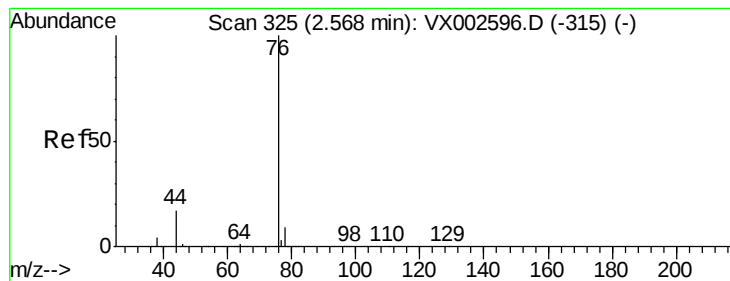
58 26.9 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.21 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.00 min

Lab File: VX002621.D

Acq: 16 Jun 2018 02:21

Instrument :

MSVOA_X

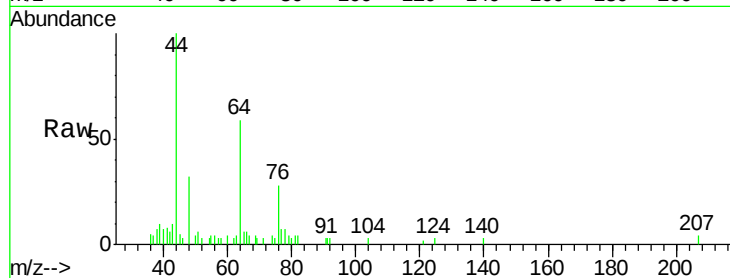
ClientSampleId :

Tot Ion: 76 Resp: 1323

Ion Ratio Lower Upper

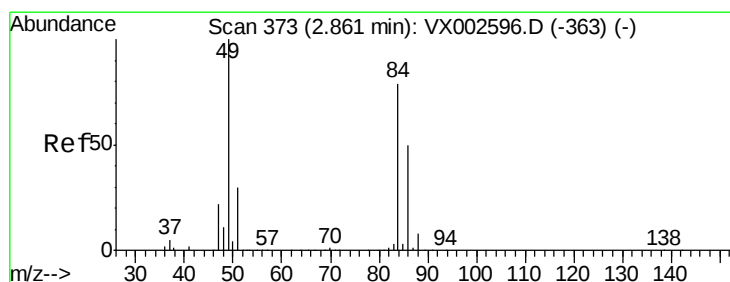
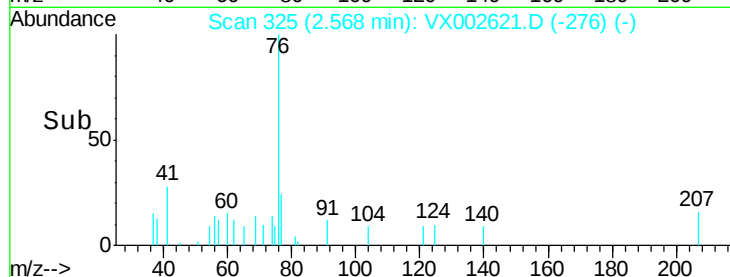
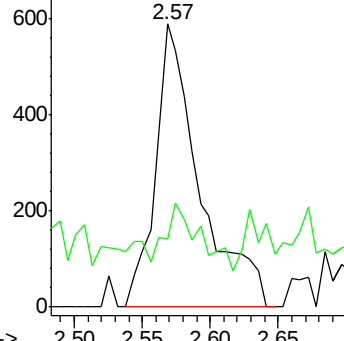
76 100

78 5.3 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.31 ug/l

RT: 2.86 min Scan# 373

Delta R.T. -0.00 min

Lab File: VX002621.D

Acq: 16 Jun 2018 02:21

Tgt Ion: 84 Resp: 985

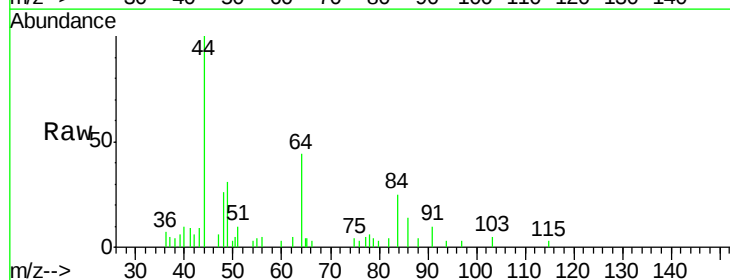
Ion Ratio Lower Upper

84 100

49 125.7 107.8 161.6

51 19.1 32.8 49.2#

86 57.6 52.5 78.7

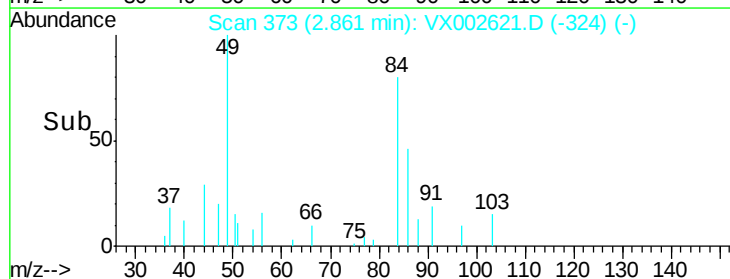
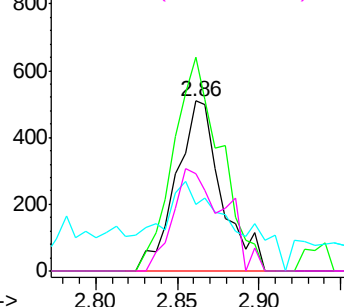


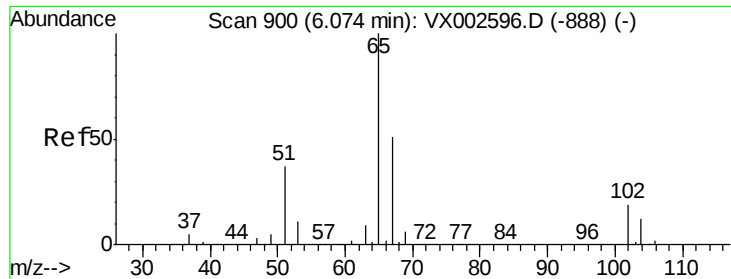
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 43.72 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002621.D

Acq: 16 Jun 2018 02:21

Instrument :

MSVOA_X

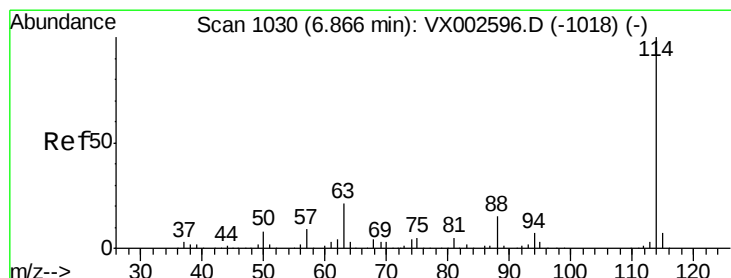
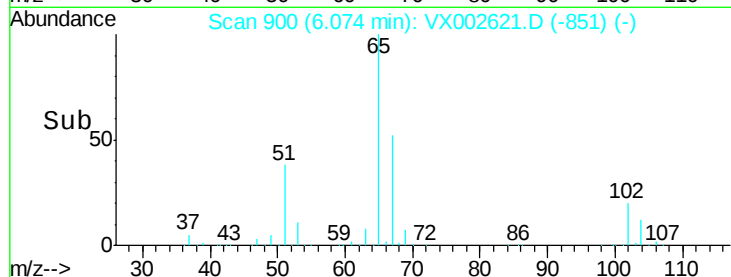
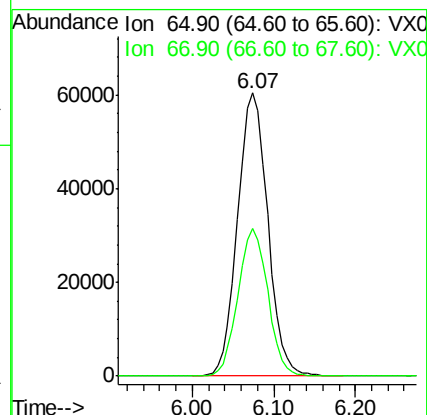
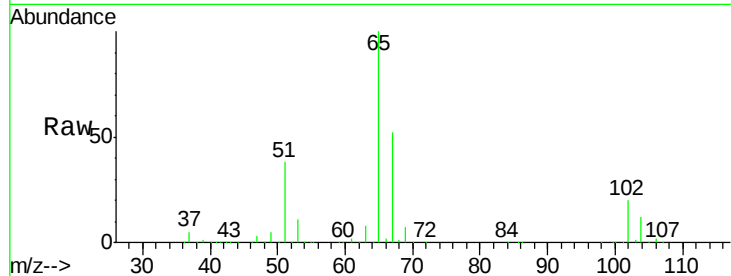
ClientSampleId :

Tot Ion: 65 Resp: 154622

Ion Ratio Lower Upper

65 100

67 51.7 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: VX002621.D

Acq: 16 Jun 2018 02:21

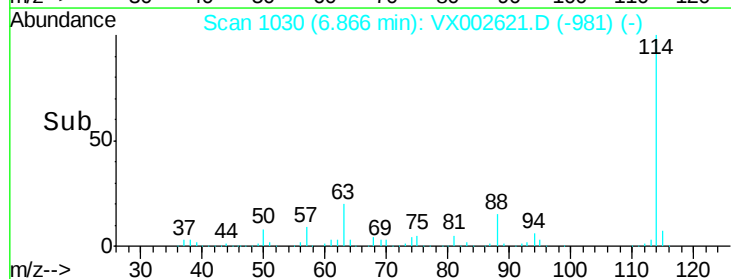
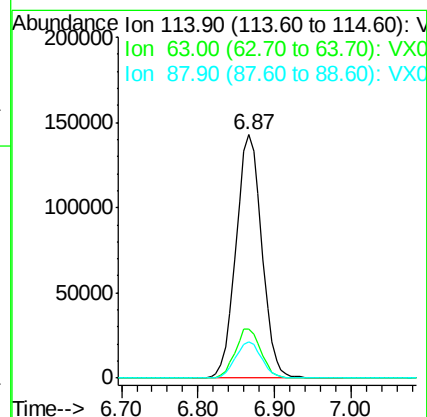
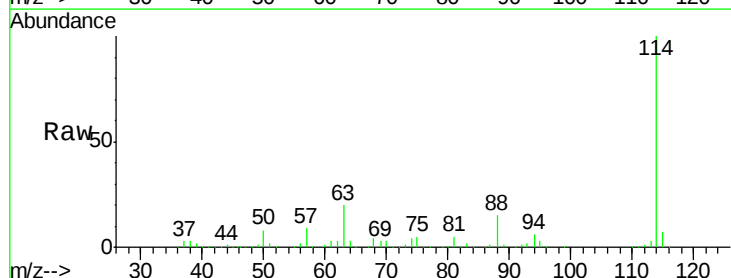
Tgt Ion: 114 Resp: 334099

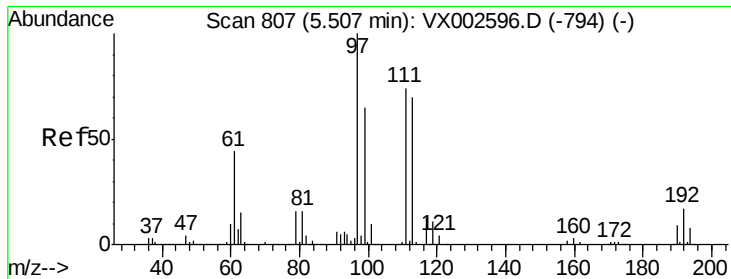
Ion Ratio Lower Upper

114 100

63 20.3 0.0 41.4

88 15.0 0.0 30.0

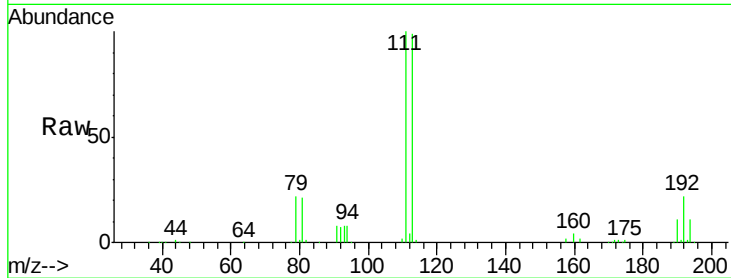




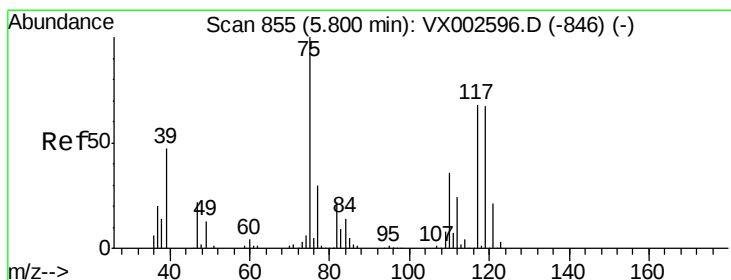
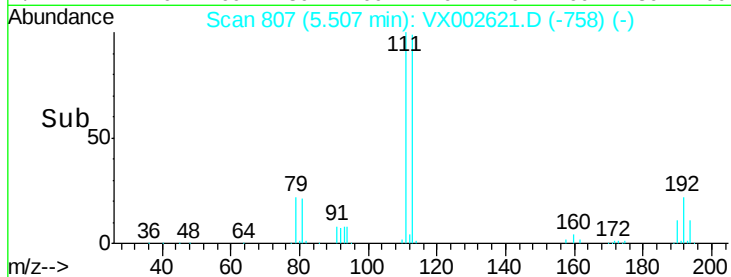
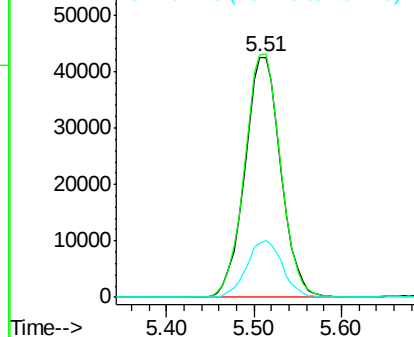
#35
 Dibromofluoromethane
 Concen: 45.37 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX002621.D
 Acq: 16 Jun 2018 02:21

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:113 Resp: 120964
 Ion Ratio Lower Upper
 113 100
 111 101.6 81.4 122.0
 192 23.7 19.1 28.7

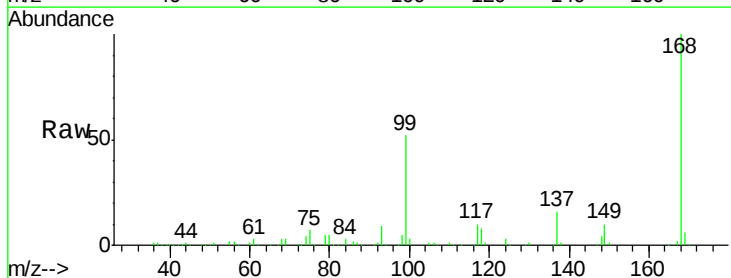


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

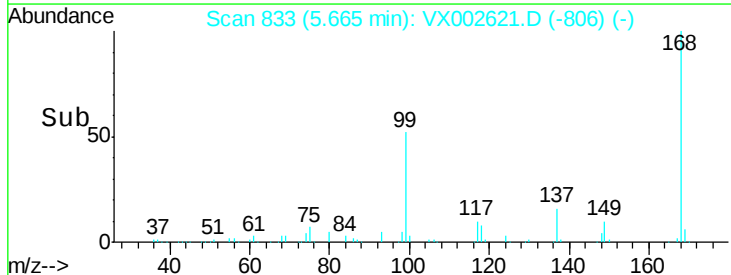
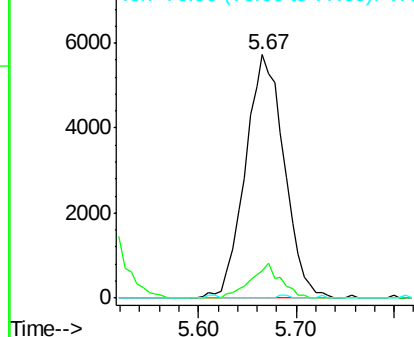


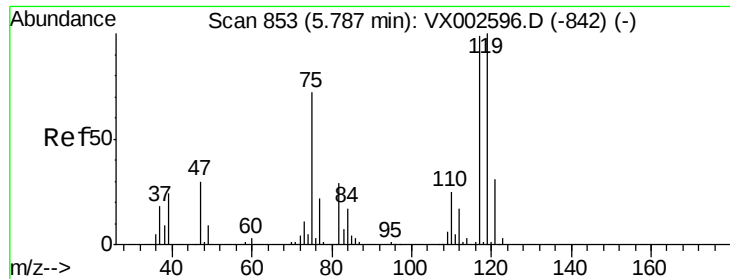
#36
 1,1-Dichloropropene
 Concen: 4.45 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002621.D
 Acq: 16 Jun 2018 02:21

Tgt Ion: 75 Resp: 15783
 Ion Ratio Lower Upper
 75 100
 110 11.1 18.1 54.4#
 77 0.3 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.07 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002621.D

Acq: 16 Jun 2018 02:21

Instrument :

MSVOA_X

ClientSampled :

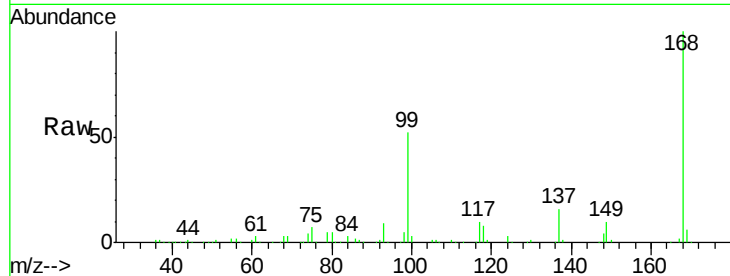
Tot Ion:117 Resp: 21437

Ion Ratio Lower Upper

117 100

119 5.5 77.4 116.0#

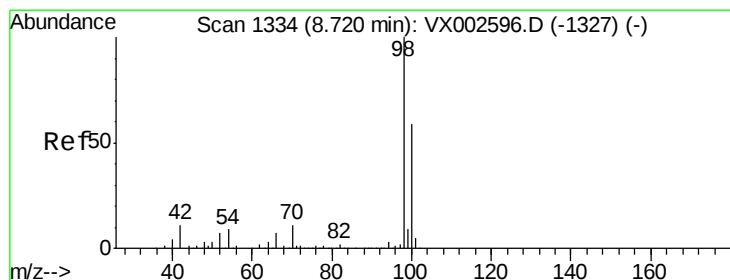
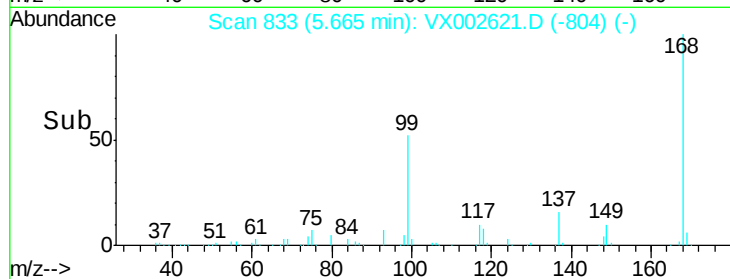
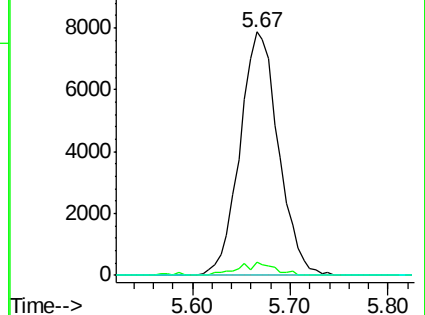
121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 46.21 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002621.D

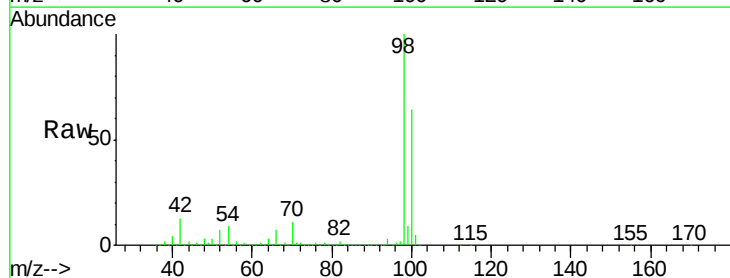
Acq: 16 Jun 2018 02:21

Tgt Ion: 98 Resp: 467832

Ion Ratio Lower Upper

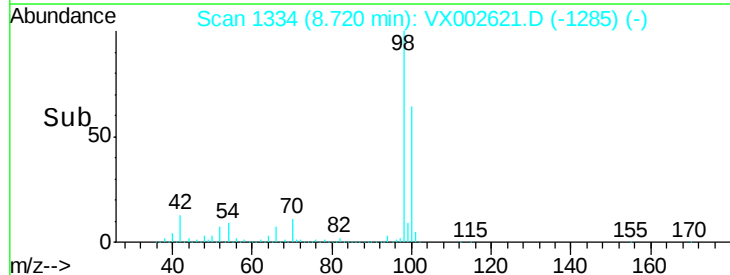
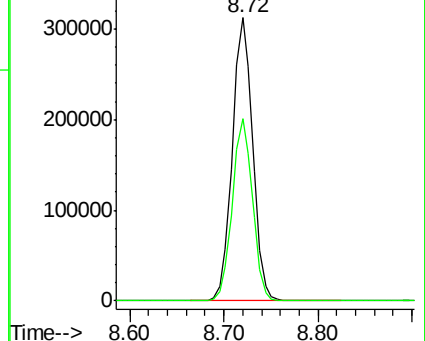
98 100

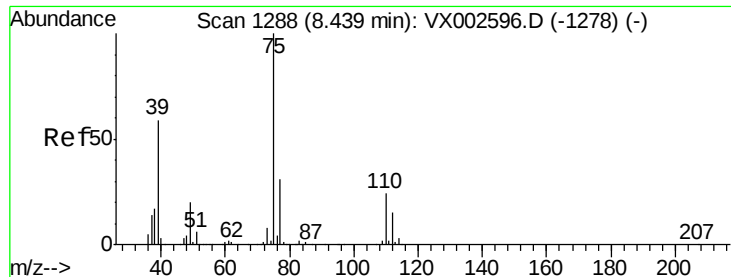
100 63.9 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#53

t-1,3-Dichloropropene

Concen: 2.40 ug/l

RT: 8.57 min Scan# 1310

Delta R.T. 0.13 min

Lab File: VX002621.D

Acq: 16 Jun 2018 02:21

Instrument :

MSVOA_X

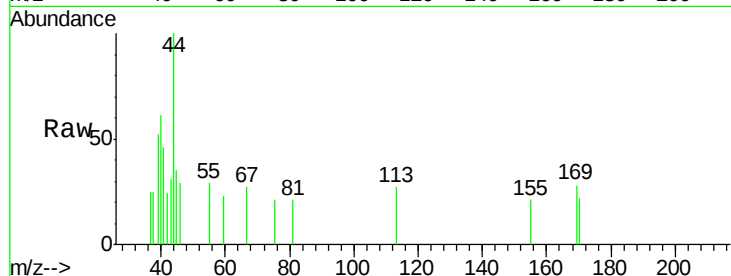
ClientSampleId :

Tot Ion: 75 Resp: 38

Ion Ratio Lower Upper

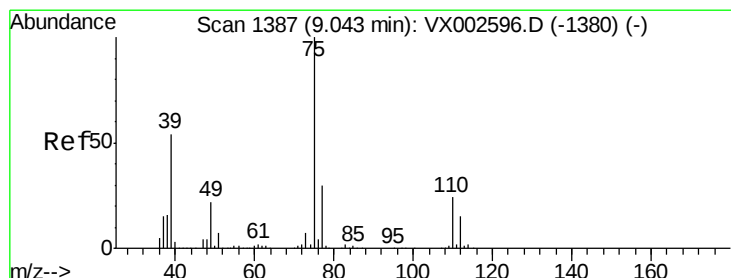
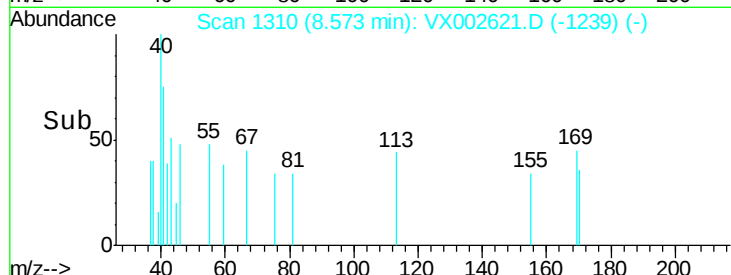
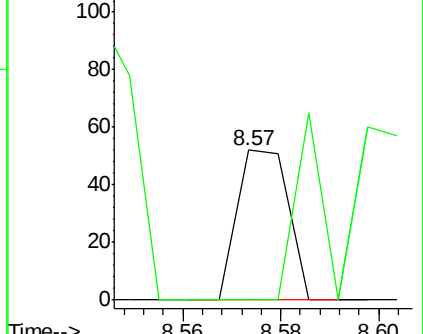
75 100

77 0.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#54

cis-1,3-Dichloropropene

Concen: 3.22 ug/l

RT: 9.29 min Scan# 1427

Delta R.T. 0.24 min

Lab File: VX002621.D

Acq: 16 Jun 2018 02:21

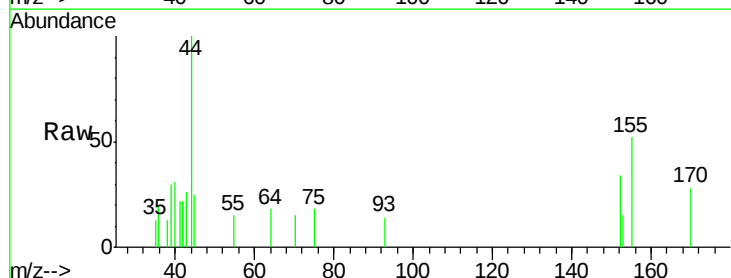
Tgt Ion: 75 Resp: 25

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

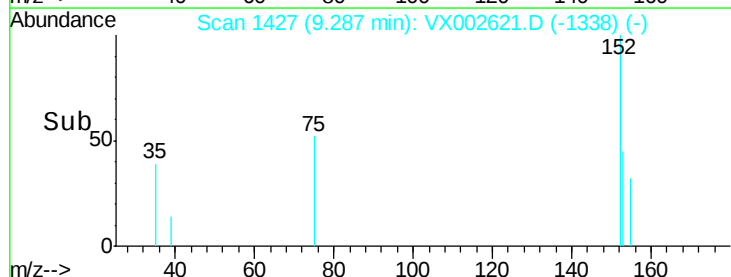
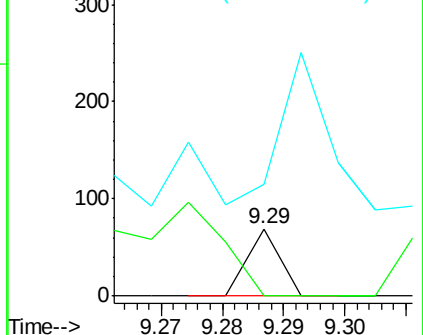
39 0.0 42.4 63.6#

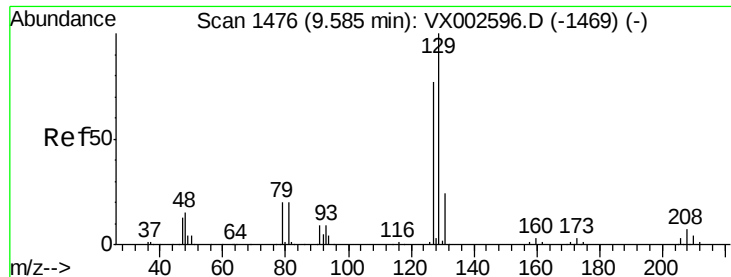


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

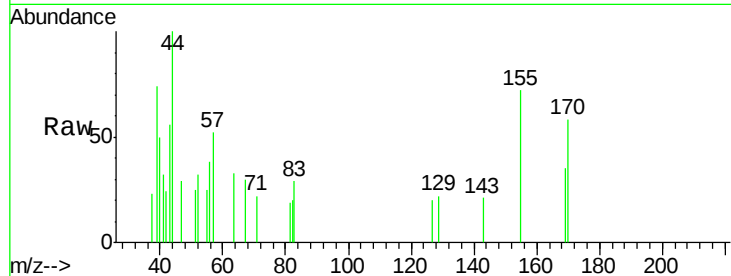




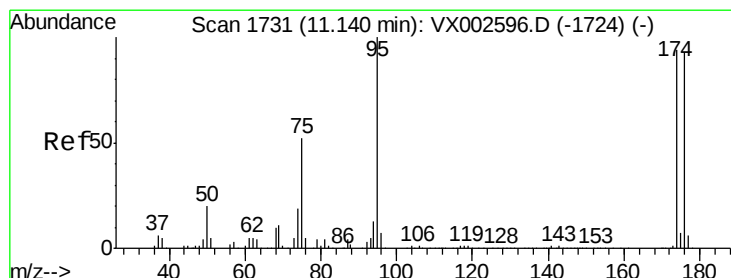
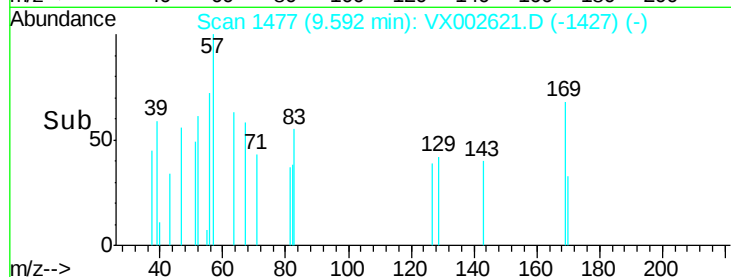
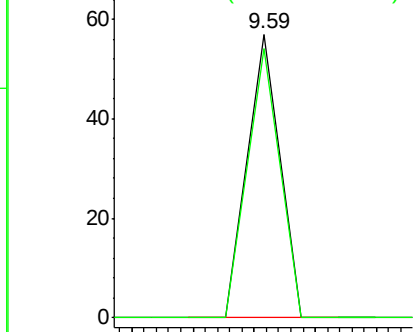
#60
Dibromochloromethane
Concen: 3.77 ug/l
RT: 9.59 min Scan# 1477
Delta R.T. 0.01 min
Lab File: VX002621.D
Acq: 16 Jun 2018 02:21

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:129 Resp: 21
Ion Ratio Lower Upper
129 100
127 95.2 38.5 115.3

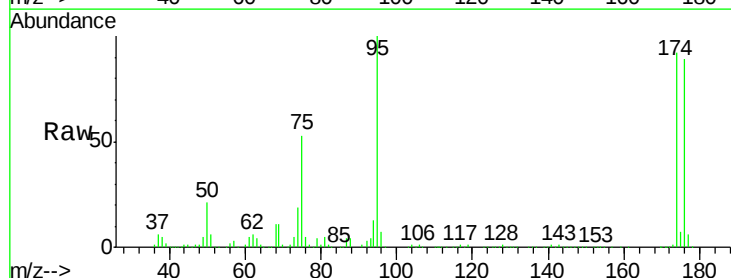


Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V

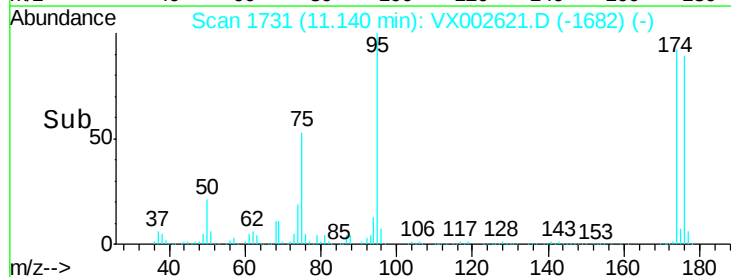
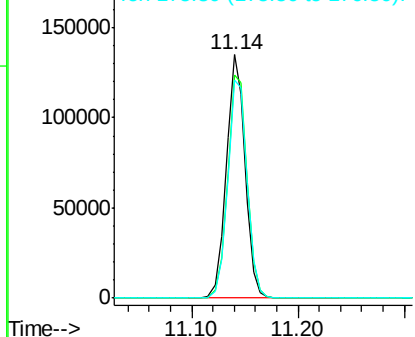


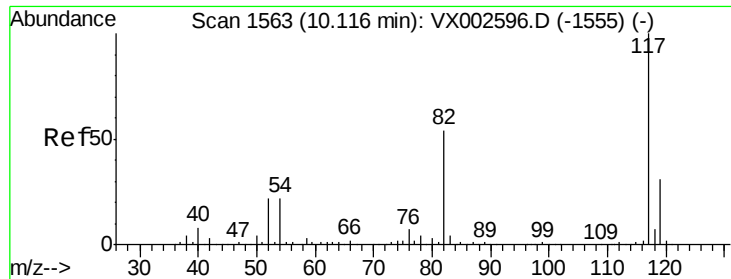
#62
4-Bromofluorobenzene
Concen: 43.15 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002621.D
Acq: 16 Jun 2018 02:21

Tgt Ion: 95 Resp: 165552
Ion Ratio Lower Upper
95 100
174 95.3 0.0 187.4
176 93.2 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

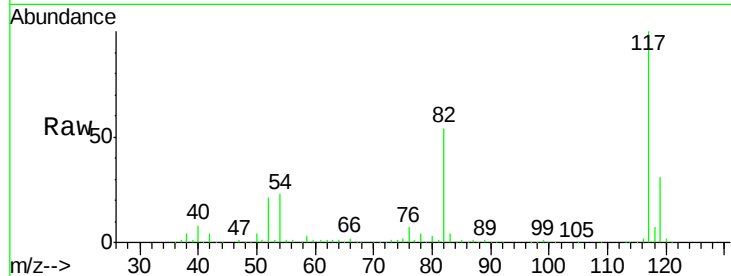




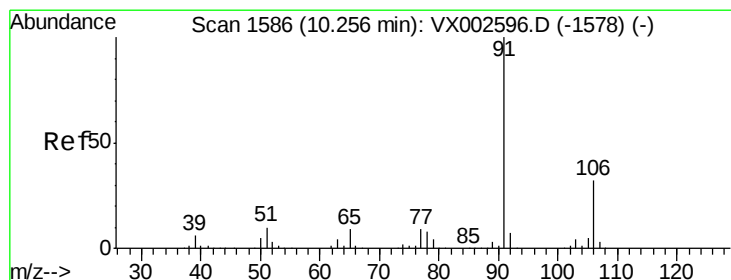
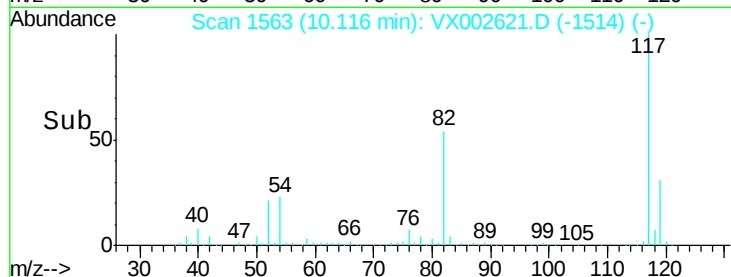
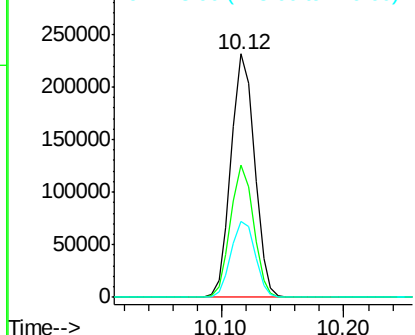
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002621.D
Acq: 16 Jun 2018 02:21

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 307561
Ion Ratio Lower Upper
117 100
82 54.2 45.0 67.4
119 31.2 25.8 38.6

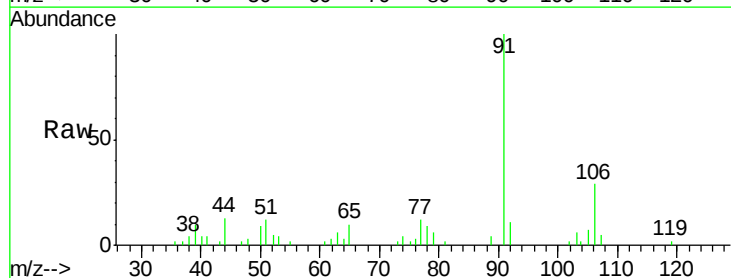


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

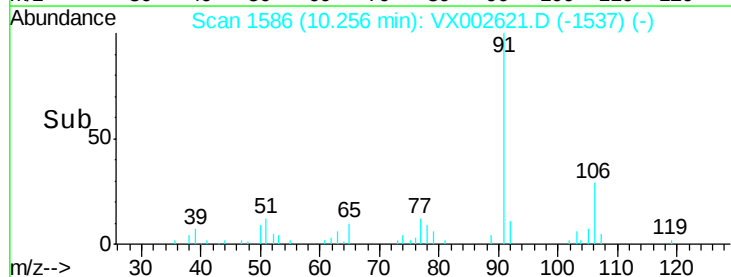
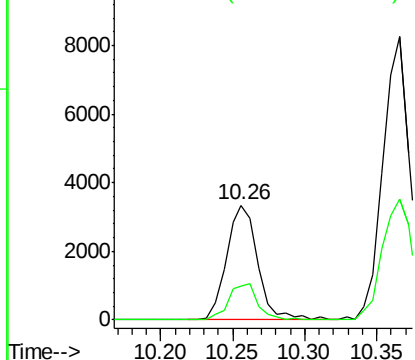


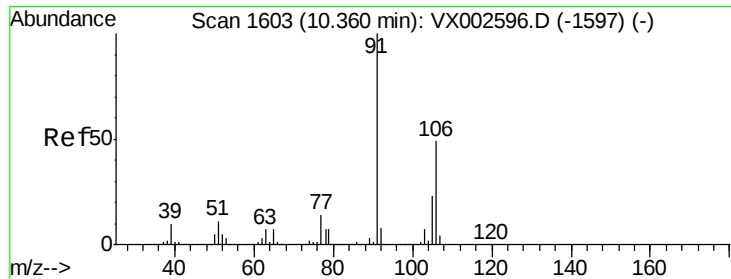
#67
Ethyl Benzene
Concen: 0.40 ug/l
RT: 10.26 min Scan# 1586
Delta R.T. -0.00 min
Lab File: VX002621.D
Acq: 16 Jun 2018 02:21

Tgt Ion: 91 Resp: 5041
Ion Ratio Lower Upper
91 100
106 29.0 25.5 38.3



Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 106.00 (105.70 to 106.70): V

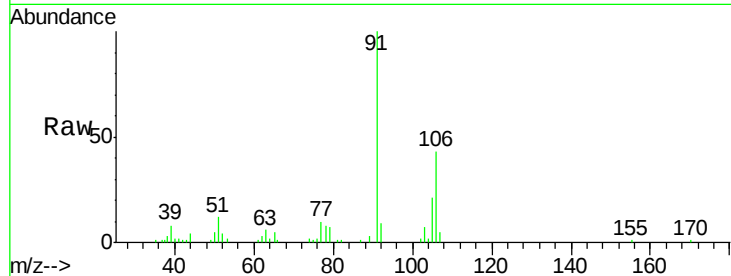




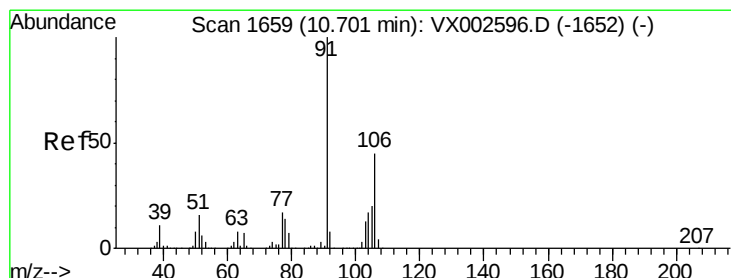
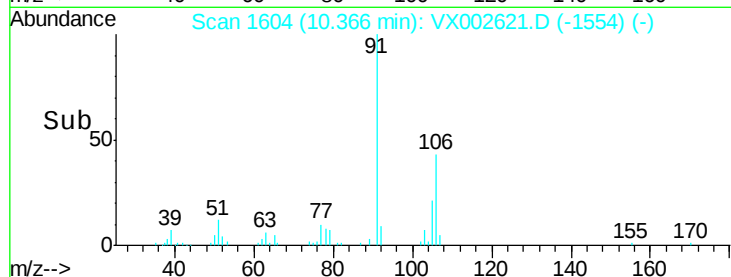
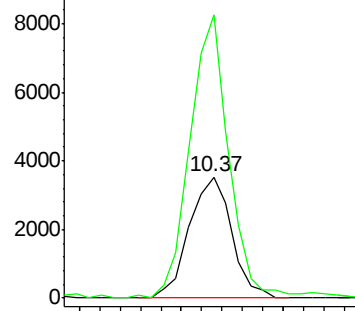
#68
m/p-Xvlenes
Concen: 1.03 ug/l
RT: 10.37 min Scan# 1604
Delta R.T. 0.01 min
Lab File: VX002621.D
Acq: 16 Jun 2018 02:21

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:106 Resp: 5078
Ion Ratio Lower Upper
106 100
91 214.2 163.4 245.2

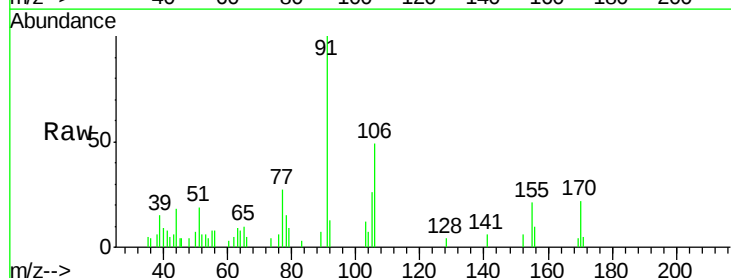


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

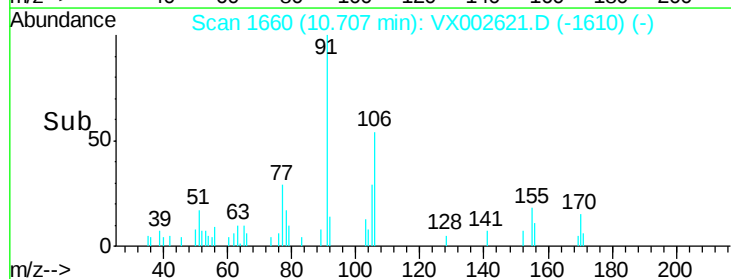
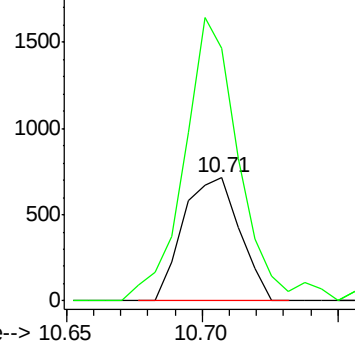


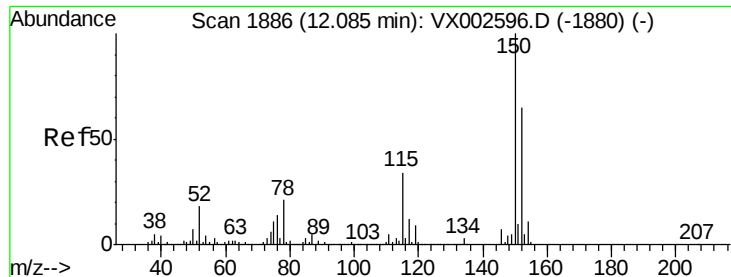
#69
o-Xylene
Concen: 0.21 ug/l
RT: 10.71 min Scan# 1660
Delta R.T. 0.01 min
Lab File: VX002621.D
Acq: 16 Jun 2018 02:21

Tgt Ion:106 Resp: 1030
Ion Ratio Lower Upper
106 100
91 222.5 108.2 324.6



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: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002621.D

Acq: 16 Jun 2018 02:21

Instrument :

MSVOA_X

ClientSampled :

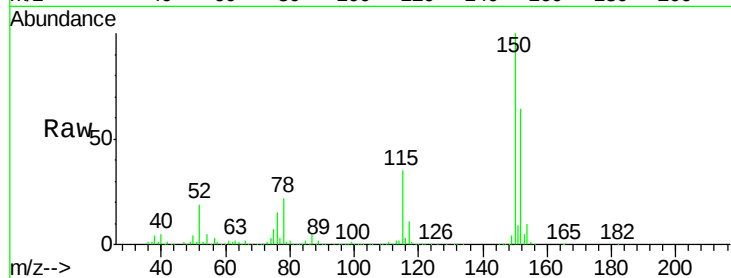
Tot Ion:152 Resp: 175606

Ion Ratio Lower Upper

152 100

115 54.8 40.1 120.2

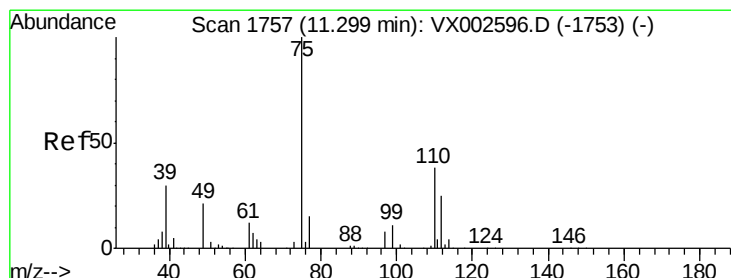
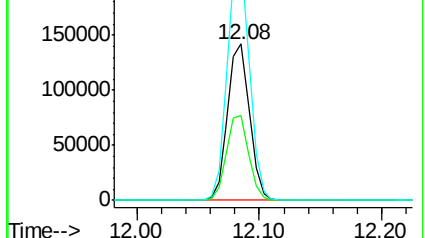
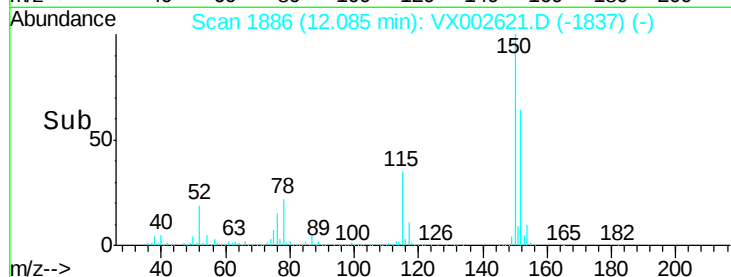
150 154.2 0.0 347.2



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



#76

1,2,3-Trichloropropane

Concen: 26.64 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002621.D

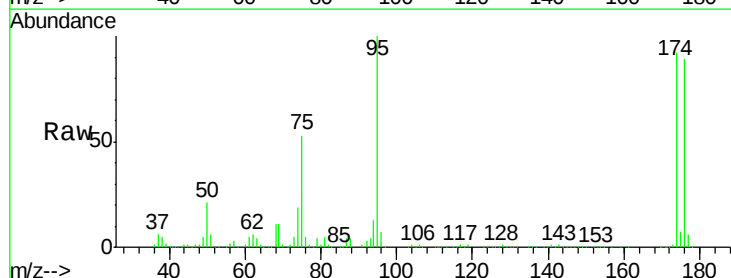
Acq: 16 Jun 2018 02:21

Tgt Ion: 75 Resp: 88290

Ion Ratio Lower Upper

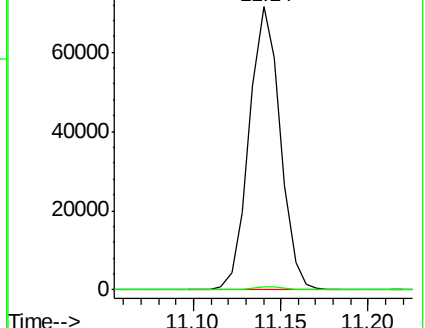
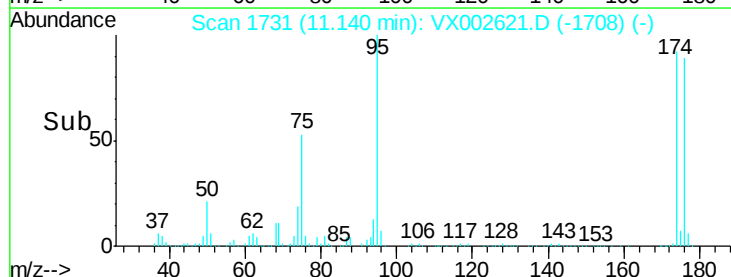
75 100

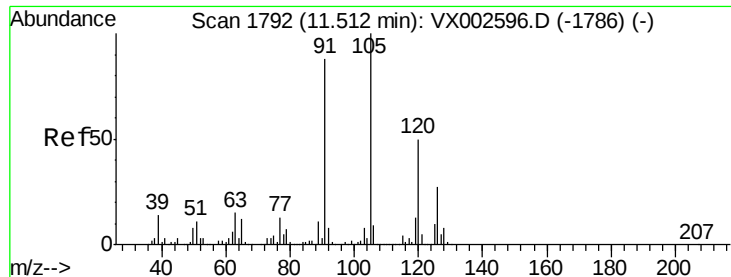
77 1.3 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 0.31 ug/l

RT: 11.51 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX002621.D

Acq: 16 Jun 2018 02:21

Instrument :

MSVOA_X

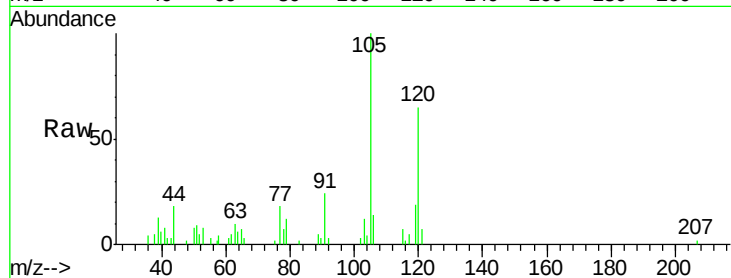
ClientSampleId :

Tot Ion:105 Resp: 3071

Ion Ratio Lower Upper

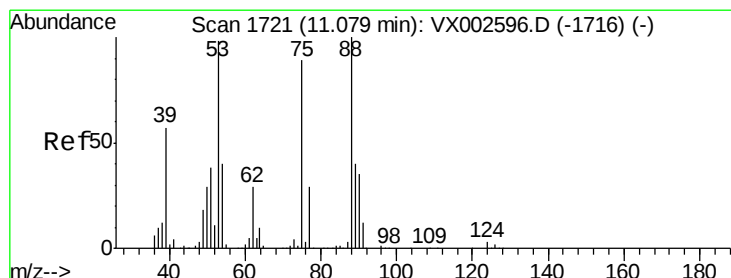
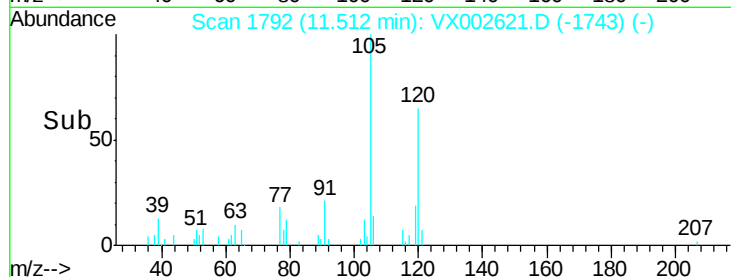
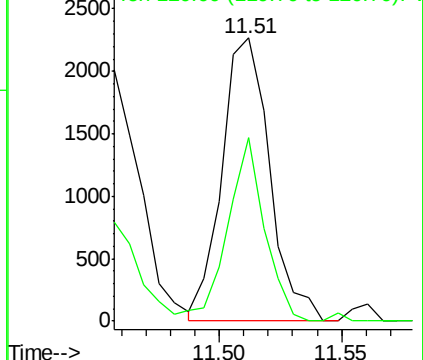
105 100

120 50.3 24.4 73.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 82.31 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002621.D

Acq: 16 Jun 2018 02:21

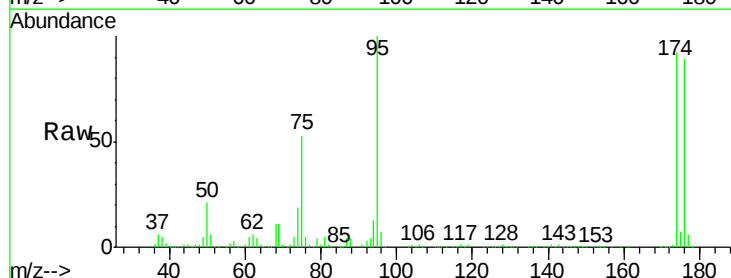
Tgt Ion: 75 Resp: 88290

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

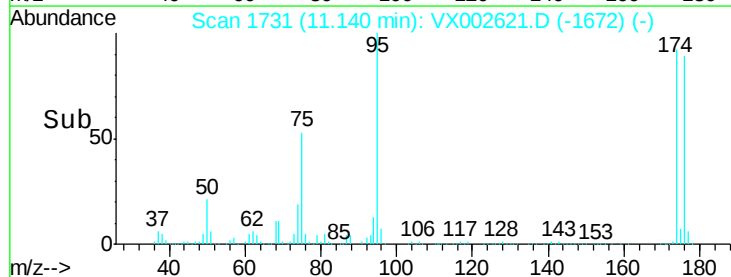
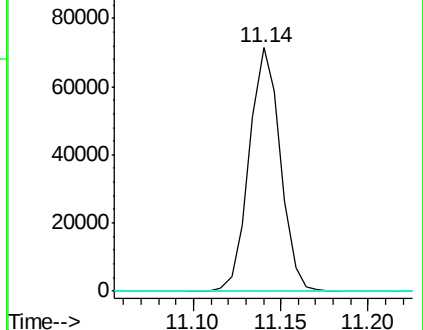
89 0.0 38.2 57.2#

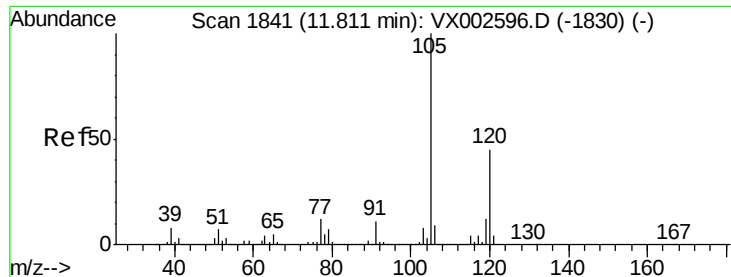


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#84

1,2,4-Trimethylbenzene

Concen: 0.76 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. -0.00 min

Lab File: VX002621.D

Acq: 16 Jun 2018 02:21

Instrument :

MSVOA_X

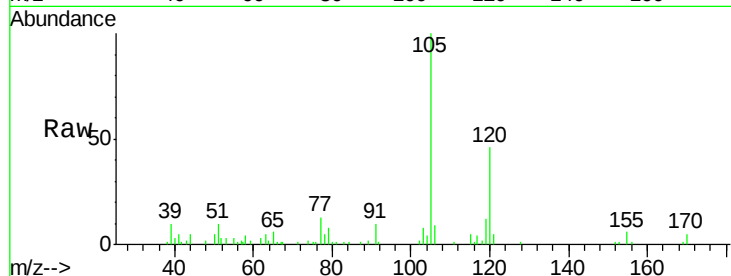
ClientSampleId :

Tot Ion:105 Resp: 7688

Ion Ratio Lower Upper

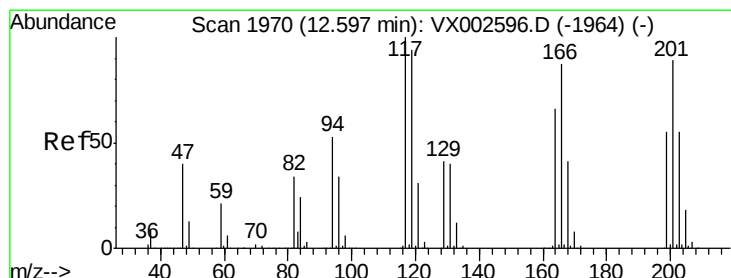
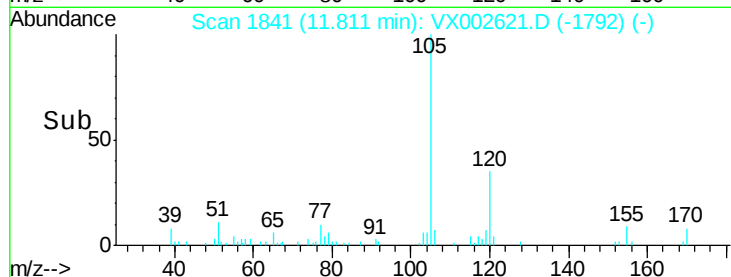
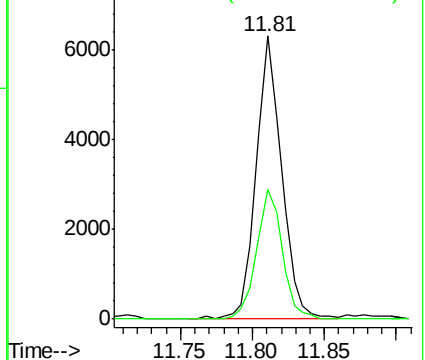
105 100

120 46.1 22.3 66.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#90

Hexachloroethane

Concen: 2.78 ug/l

RT: 12.61 min Scan# 1972

Delta R.T. 0.01 min

Lab File: VX002621.D

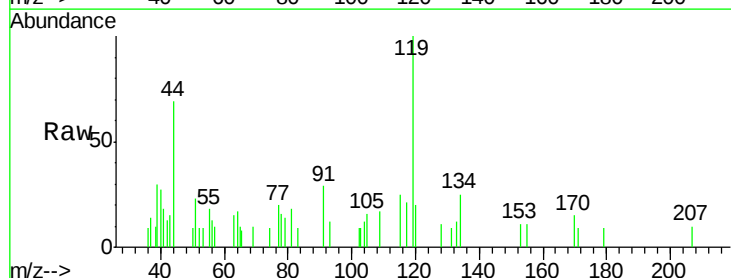
Acq: 16 Jun 2018 02:21

Tgt Ion:117 Resp: 266

Ion Ratio Lower Upper

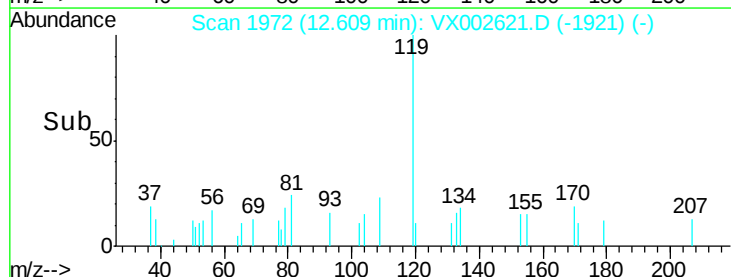
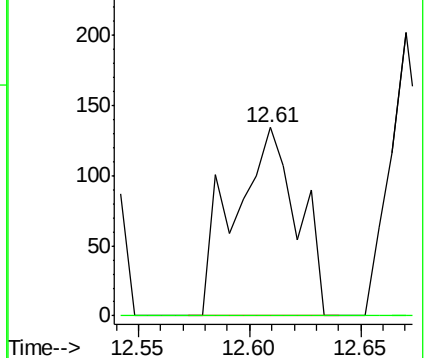
117 100

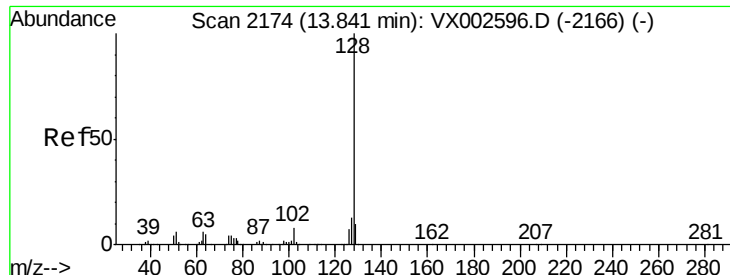
201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

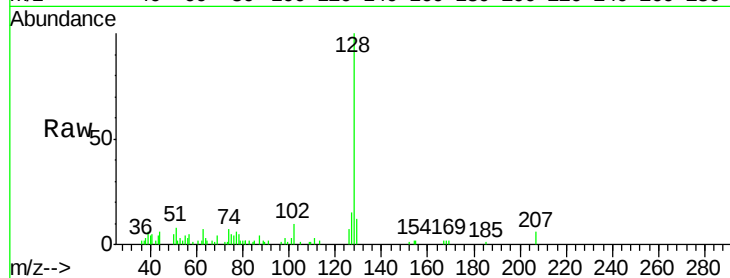




#95
Naphthalene
Concen: 0.48 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. -0.00 min
Lab File: VX002621.D
Acq: 16 Jun 2018 02:21

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:128 Resp: 5661
Ion Ratio Lower Upper
128 100
127 14.8 10.4 15.6
129 13.1 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

