

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX062718\
 Data File : VX002938.D
 Acq On : 27 Jun 2018 16:04
 Operator : JC/MD
 Sample : J3707-05DL 500X
 Misc : 5.49g/5mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 28 03:14:00 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	266615	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	378054	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	351625	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	203351	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	181265	49.19	ug/l	0.00
Spiked Amount			Recovery	=	98.38%	
35) Dibromofluoromethane	5.51	113	139999	46.76	ug/l	0.00
Spiked Amount			Recovery	=	93.52%	
50) Toluene-d8	8.72	98	534255	48.87	ug/l	0.00
Spiked Amount			Recovery	=	97.74%	
62) 4-Bromofluorobenzene	11.14	95	191765	45.48	ug/l	0.00
Spiked Amount			Recovery	=	90.96%	

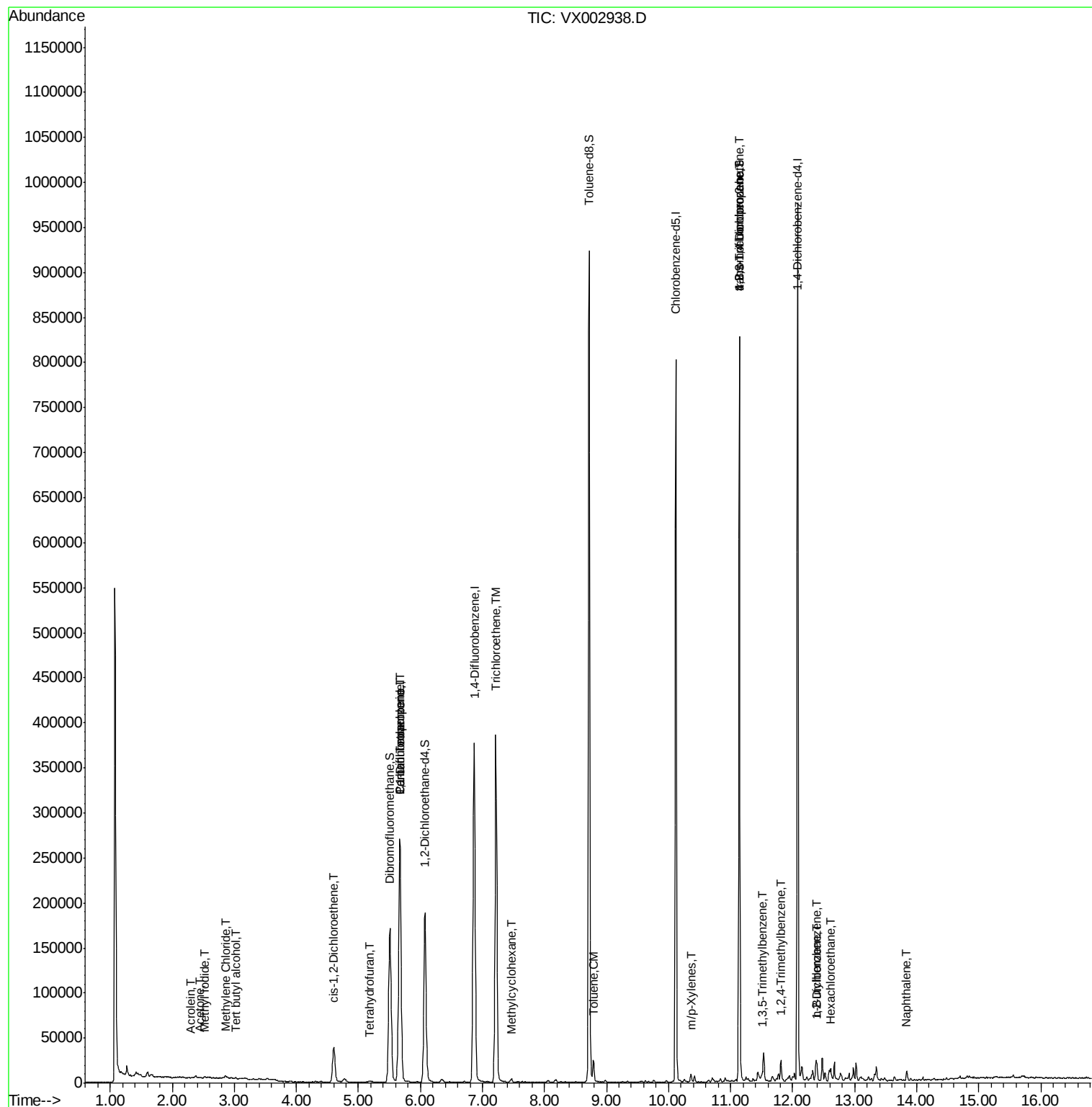
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	64	Below Cal	#	43
3) Chloromethane	1.33	50	562	Below Cal	#	71
5) Bromomethane	1.66	94	1851	Below Cal		88
6) Chloroethane	1.73	64	287	Below Cal	#	81
10) Methyl Iodide	2.52	142	1825	6.76	ug/l	98
11) Tert butyl alcohol	3.03	59	1055	1.44	ug/l #	89
13) Acrolein	2.29	56	211	4.74	ug/l #	40
16) Acetone	2.45	43	925	0.61	ug/l	92
20) Methylene Chloride	2.87	84	998	0.34	ug/l	91
27) cis-1,2-Dichloroethene	4.60	96	23145	7.21	ug/l	96
29) Tetrahydrofuran	5.18	42	700	0.48	ug/l #	82
36) 1,1-Dichloropropene	5.67	75	18282	4.41	ug/l #	50
38) Carbon Tetrachloride	5.67	117	24113	5.30	ug/l #	16
39) Methylcyclohexane	7.47	83	1521	0.31	ug/l #	82
44) Trichloroethene	7.22	130	151628	42.22	ug/l	100
52) Toluene	8.79	92	8091	1.05	ug/l	99
68) m/p-Xylenes	10.37	106	1855	0.33	ug/l	90
76) 1,2,3-Trichloropropane	11.14	75	100594	27.31	ug/l #	33
80) 1,3,5-Trimethylbenzene	11.51	105	4056	0.35	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.14	75	100594	77.27	ug/l #	7
84) 1,2,4-Trimethylbenzene	11.81	105	8679	0.73	ug/l	95
89) n-Butylbenzene	12.39	91	4083	0.38	ug/l #	52
90) Hexachloroethane	12.61	117	1257	0.68	ug/l #	1
91) 1,2-Dichlorobenzene	12.40	146	2547	0.35	ug/l	96
95) Naphthalene	13.84	128	6530	0.47	ug/l #	94

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

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Acq On : 27 Jun 2018 16:04
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Sample : J3707-05DL 500X
Misc : 5.49g/5mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampled :

Quant Time: Jun 28 03:14:00 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
Quant Title : SW846 8260
QLast Update : Mon Jun 25 14:38:05 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX002938.D

Acq: 27 Jun 2018 16:04

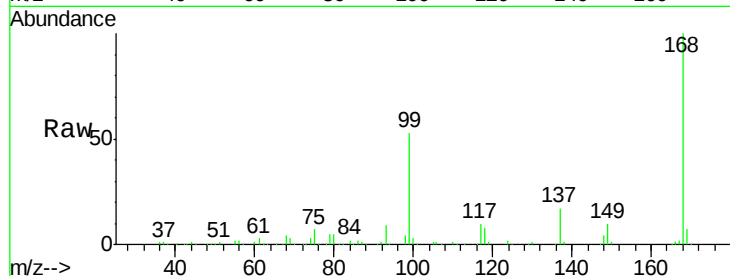
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 266615

Ion Ratio Lower Upper

168 100

99 52.5 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

100000

80000

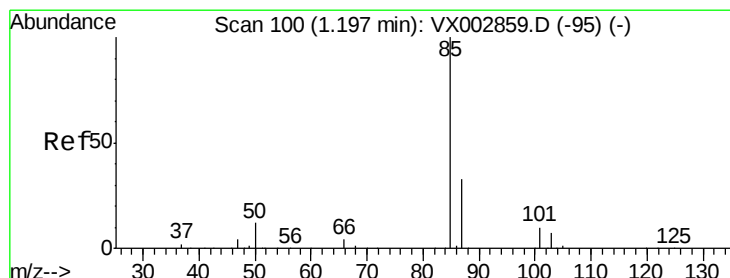
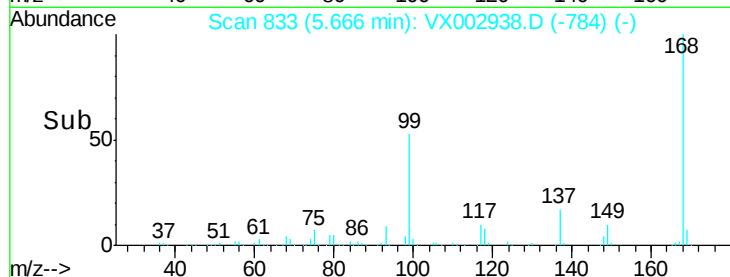
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX002938.D

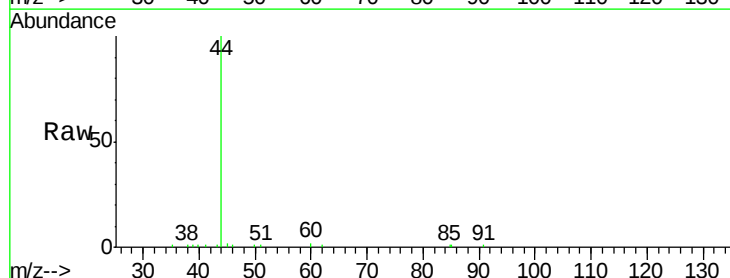
Acq: 27 Jun 2018 16:04

Tgt Ion: 85 Resp: 64

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

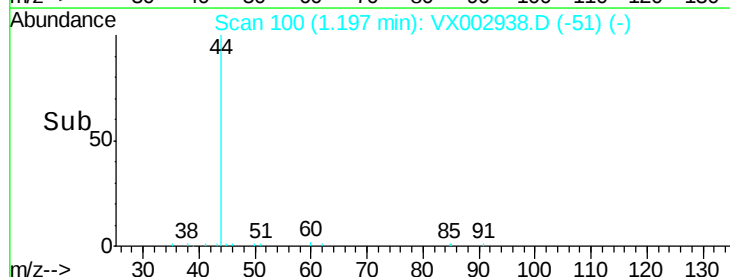
1.20

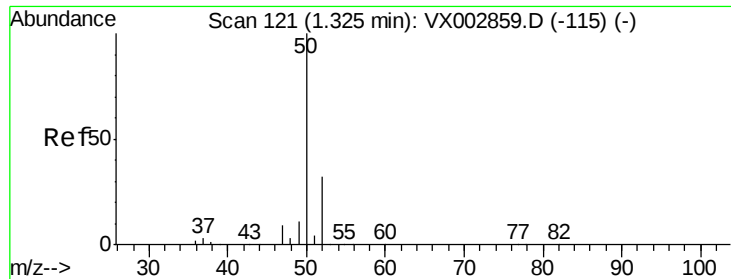
100

50

0

Time--> 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002938.D

Acq: 27 Jun 2018 16:04

Instrument :

MSVOA_X

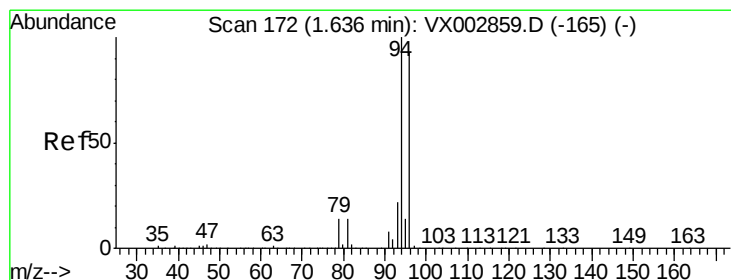
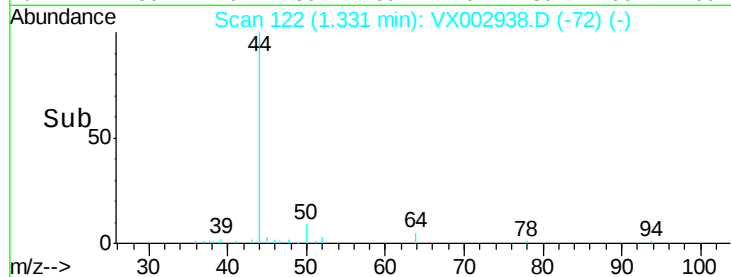
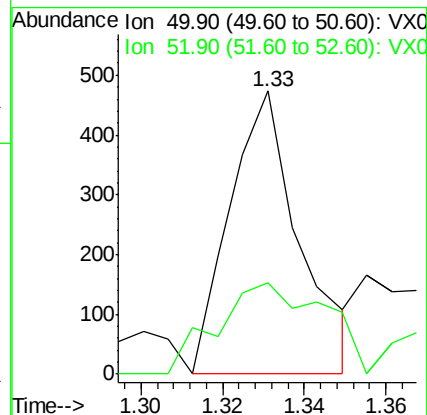
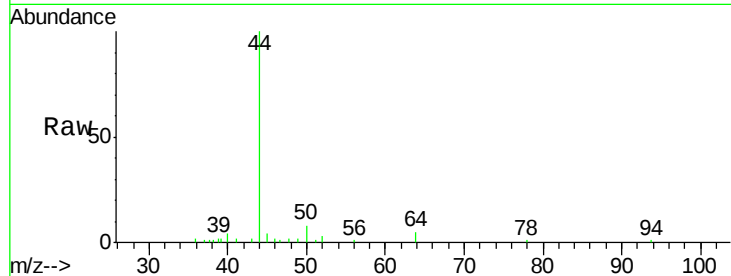
ClientSampleId :

Tot Ion: 50 Resp: 562

Ion Ratio Lower Upper

50 100

52 15.9 25.7 38.5#



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002938.D

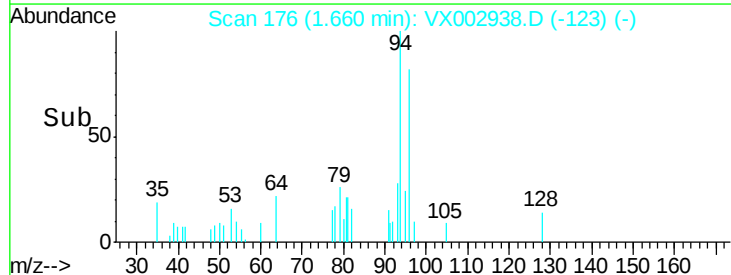
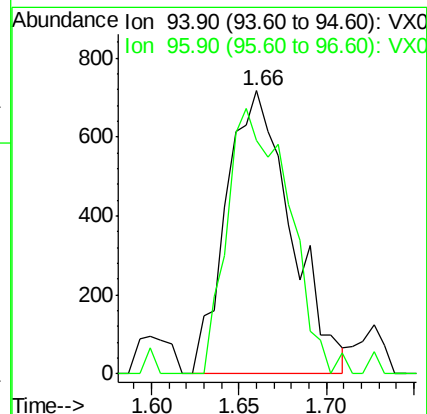
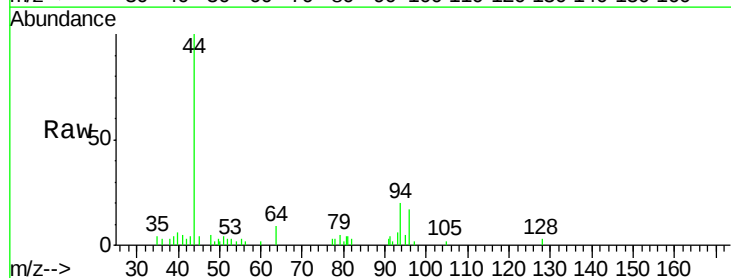
Acq: 27 Jun 2018 16:04

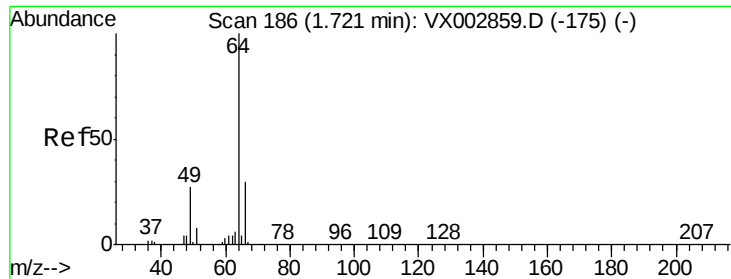
Tgt Ion: 94 Resp: 1851

Ion Ratio Lower Upper

94 100

96 82.3 74.9 112.3





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX002938.D

Acq: 27 Jun 2018 16:04

Instrument :

MSVOA_X

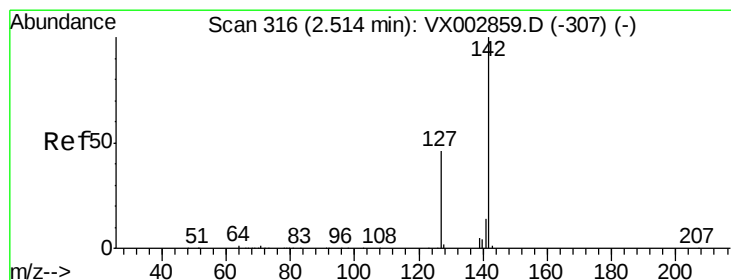
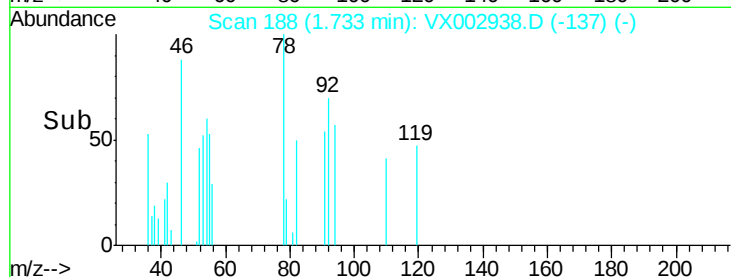
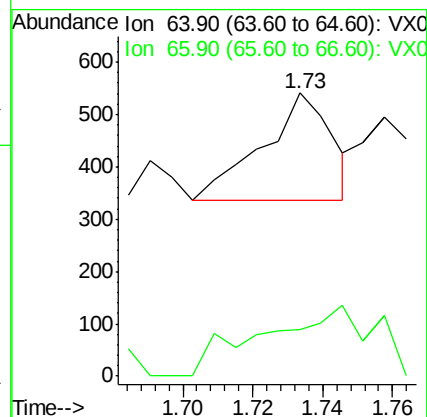
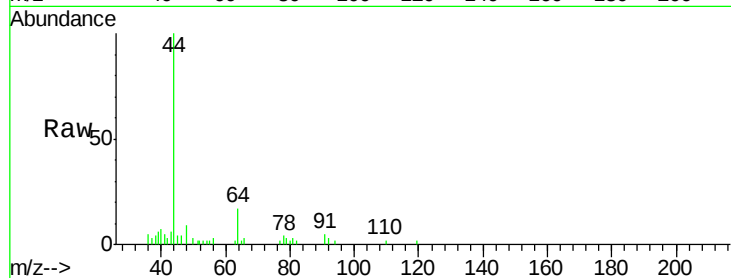
ClientSampleId :

Tot Ion: 64 Resp: 287

Ion Ratio Lower Upper

64 100

66 42.7 25.5 38.3#



#10

Methyl Iodide

Concen: 6.76 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002938.D

Acq: 27 Jun 2018 16:04

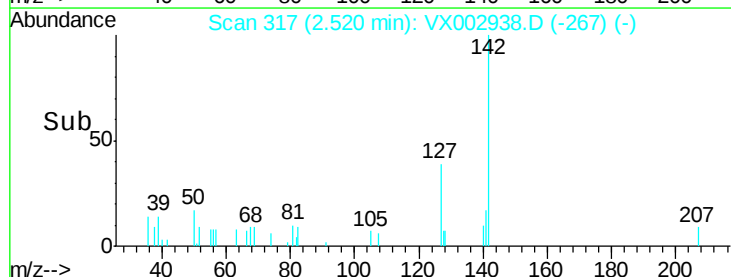
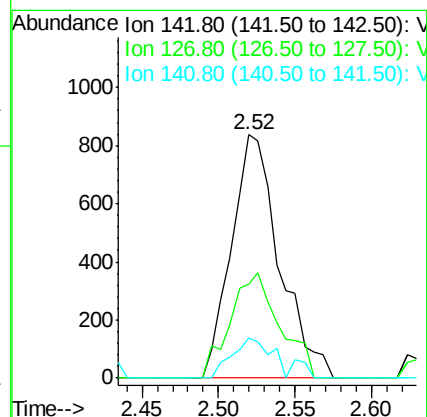
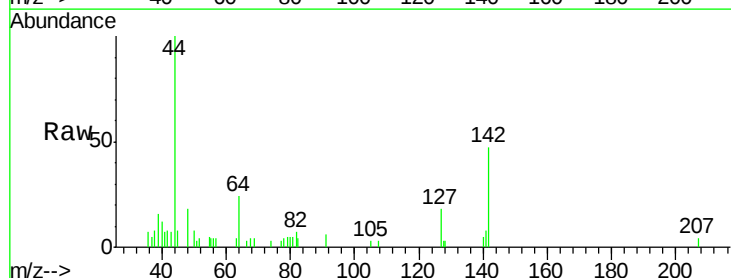
Tgt Ion: 142 Resp: 1825

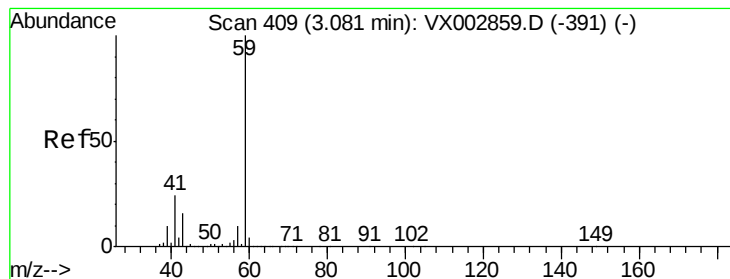
Ion Ratio Lower Upper

142 100

127 44.6 36.6 55.0

141 13.5 11.3 16.9



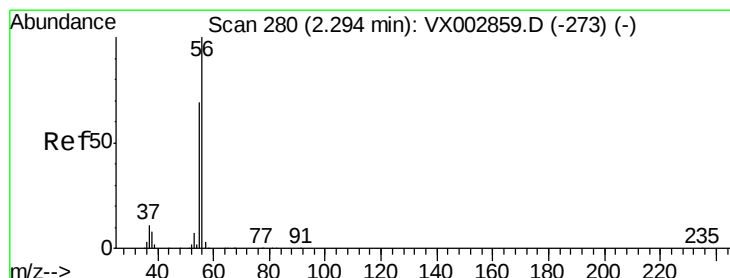
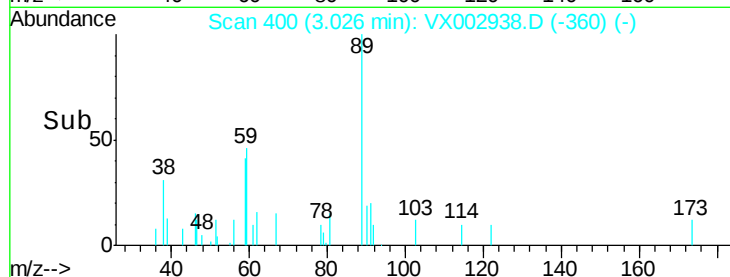
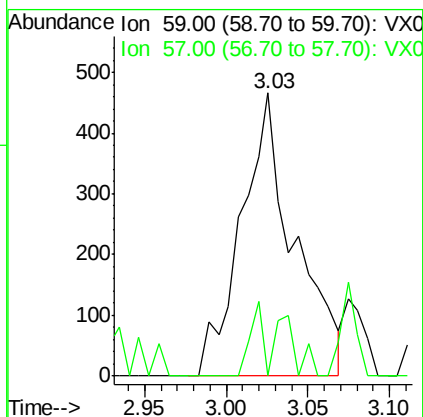
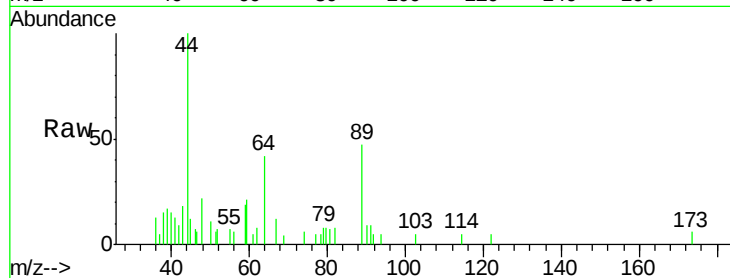


#11

Tert butyl alcohol
Concen: 1.44 ug/l
RT: 3.03 min Scan# 400
Delta R.T. -0.05 min
Lab File: VX002938.D
Acq: 27 Jun 2018 16:04

Instrument :
MSVOA_X
ClientSampled :

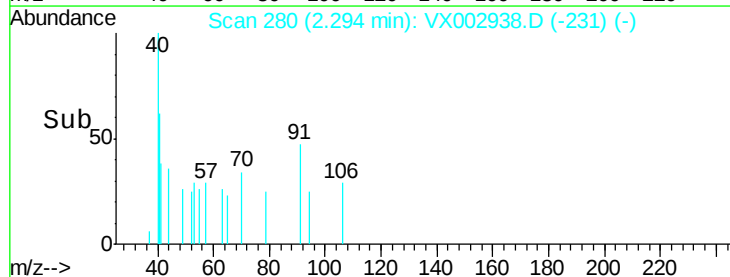
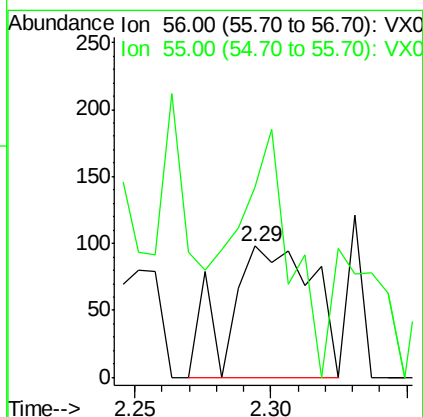
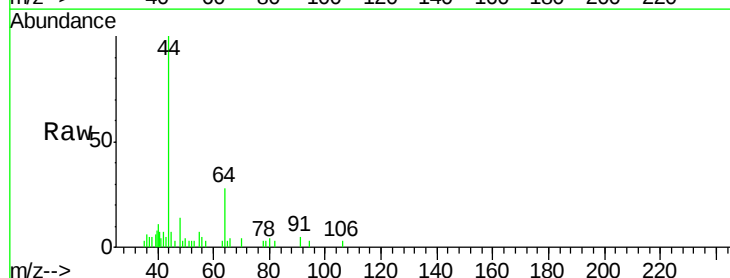
Tot Ion: 59 Resp: 1055
Ion Ratio Lower Upper
59 100
57 6.3 8.2 12.2#

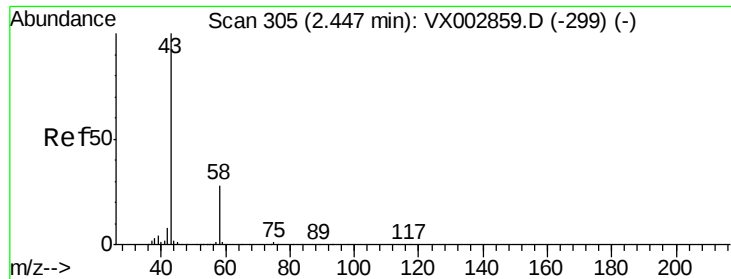


#13

Acrolein
Concen: 4.74 ug/l
RT: 2.29 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX002938.D
Acq: 27 Jun 2018 16:04

Tgt Ion: 56 Resp: 211
Ion Ratio Lower Upper
56 100
55 120.9 57.0 85.4#





#16

Acetone

Concen: 0.61 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX002938.D

Acq: 27 Jun 2018 16:04

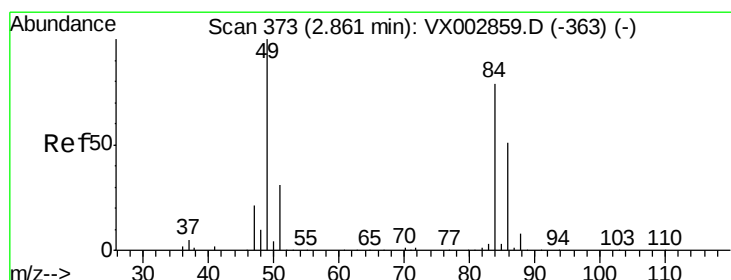
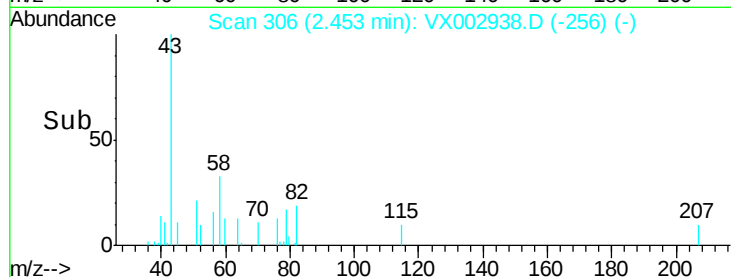
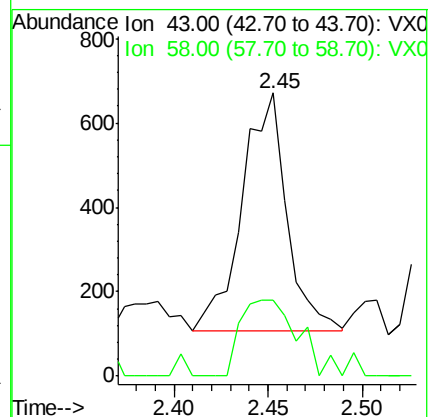
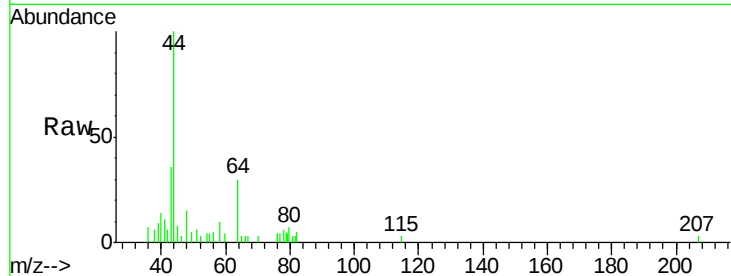
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 925

Ion Ratio Lower Upper

43 100

58 31.8 22.1 33.1



#20

Methylene Chloride

Concen: 0.34 ug/l

RT: 2.87 min Scan# 374

Delta R.T. 0.01 min

Lab File: VX002938.D

Acq: 27 Jun 2018 16:04

Tgt Ion: 84 Resp: 998

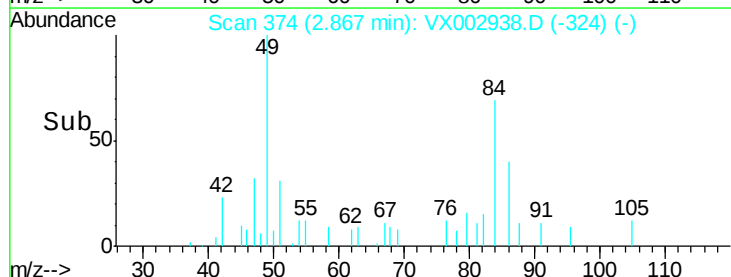
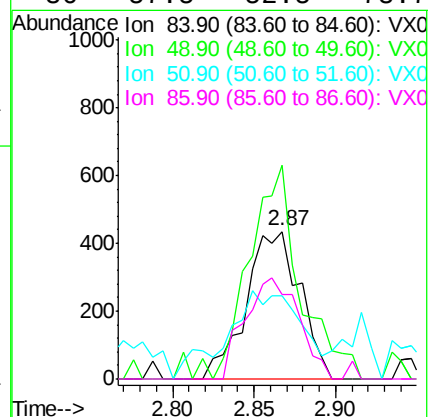
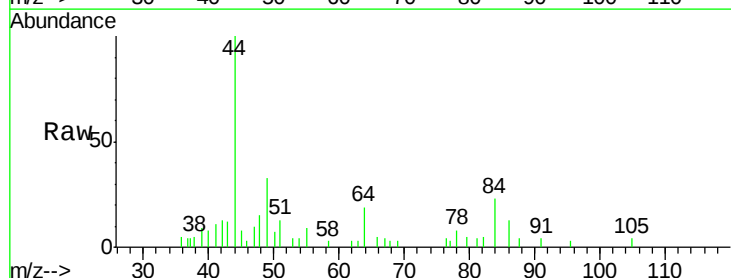
Ion Ratio Lower Upper

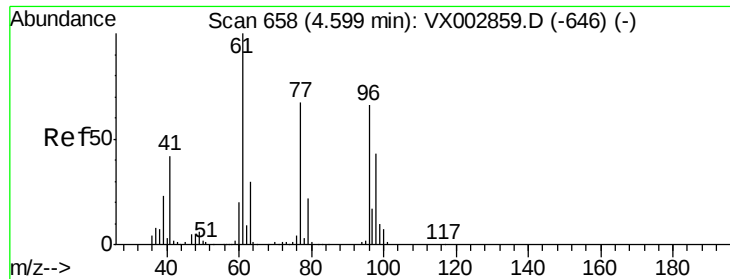
84 100

49 144.8 107.8 161.6

51 36.1 32.8 49.2

86 57.5 52.5 78.7

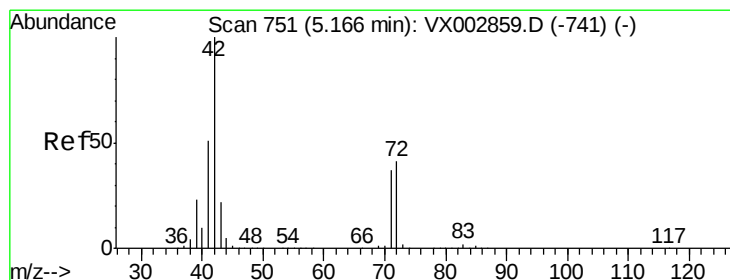
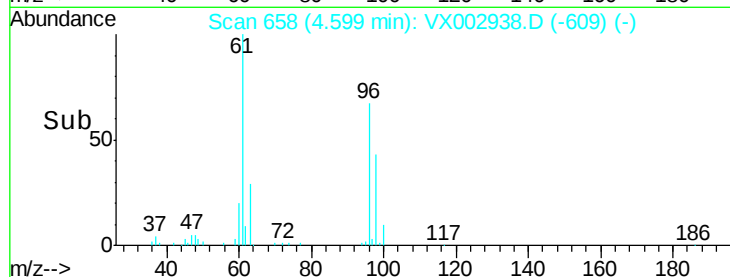
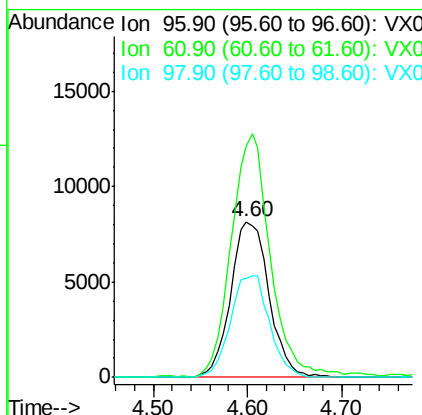
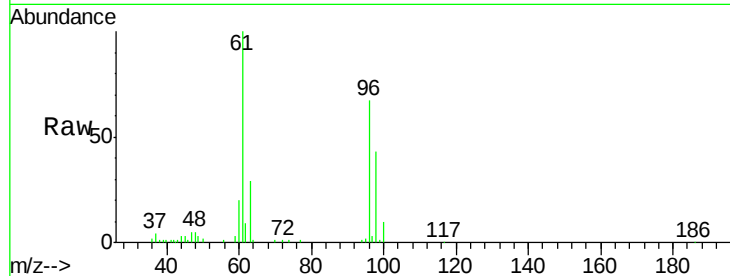




#27
 cis-1,2-Dichloroethene
 Concen: 7.21 ug/l
 RT: 4.60 min Scan# 658
 Delta R.T. -0.00 min
 Lab File: VX002938.D
 Acq: 27 Jun 2018 16:04

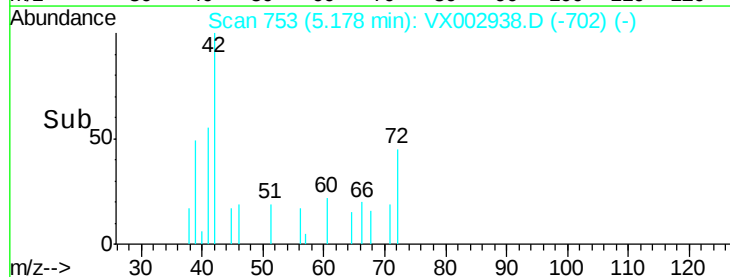
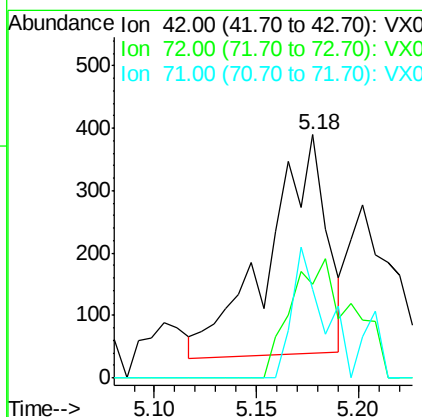
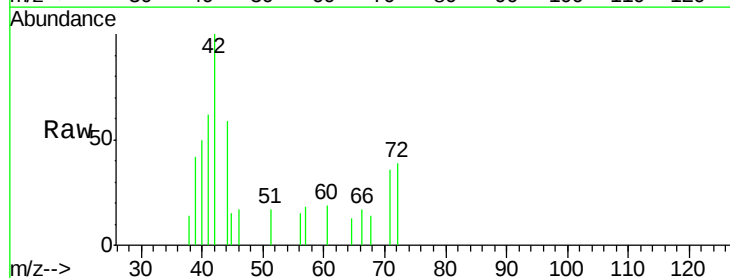
Instrument :
 MSVOA_X
 ClientSampleId :

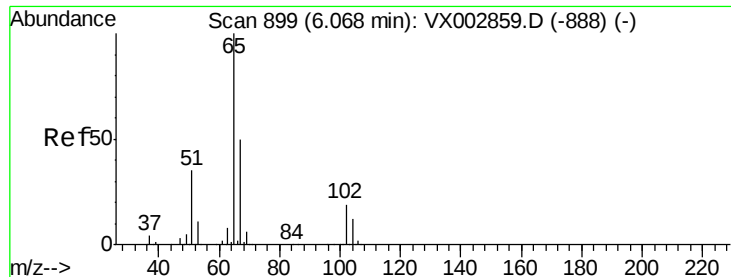
Tot Ion: 96 Resp: 23145
 Ion Ratio Lower Upper
 96 100
 61 159.1 0.0 330.2
 98 66.7 0.0 130.2



#29
 Tetrahydrofuran
 Concen: 0.48 ug/l
 RT: 5.18 min Scan# 753
 Delta R.T. 0.01 min
 Lab File: VX002938.D
 Acq: 27 Jun 2018 16:04

Tgt Ion: 42 Resp: 700
 Ion Ratio Lower Upper
 42 100
 72 56.1 32.0 48.0#
 71 32.0 30.1 45.1

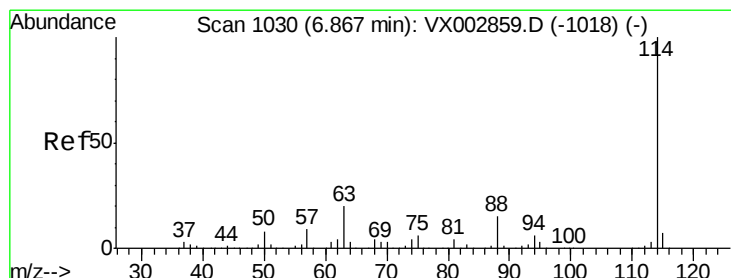
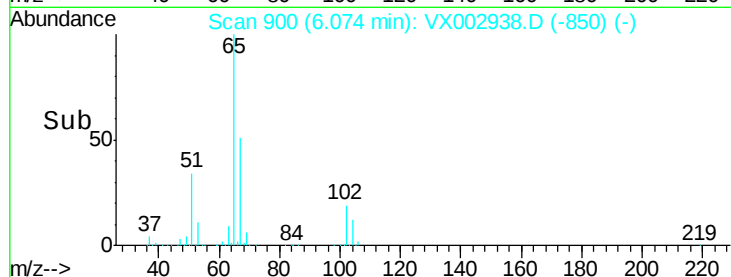
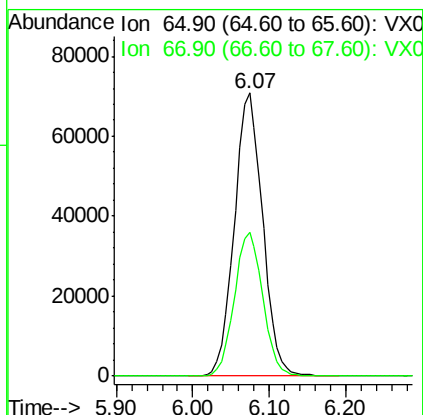
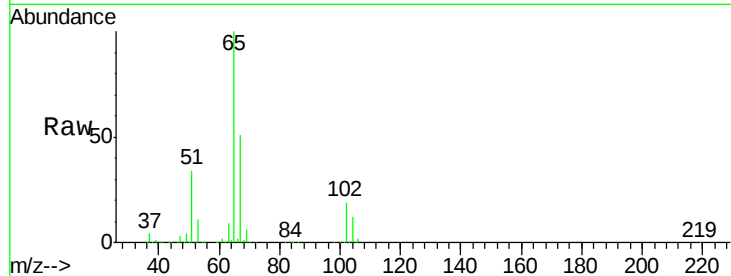




#33
 1,2-Dichloroethane-d4
 Concen: 49.19 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX002938.D
 Acq: 27 Jun 2018 16:04

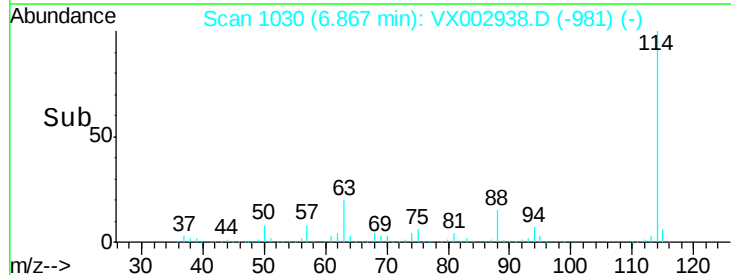
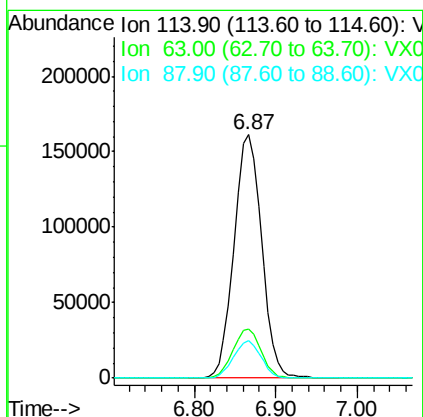
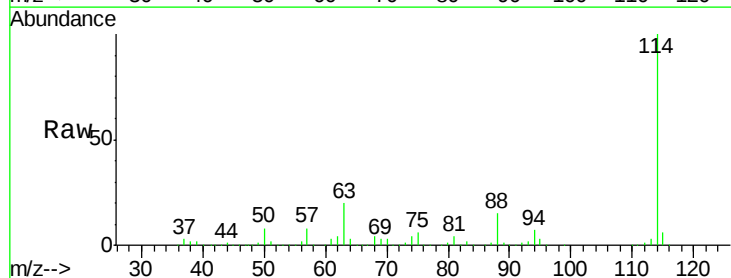
Instrument :
 MSVOA_X
 ClientSampleId :

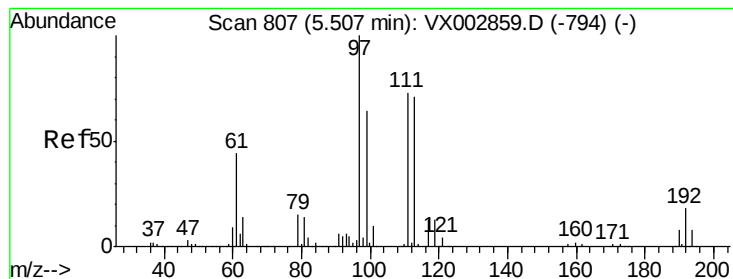
Tot Ion: 65 Resp: 181265
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002938.D
 Acq: 27 Jun 2018 16:04

Tgt Ion: 114 Resp: 378054
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 41.4
 88 15.3 0.0 30.0





#35

Dibromofluoromethane

Concen: 46.76 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002938.D

Acq: 27 Jun 2018 16:04

Instrument :

MSVOA_X

ClientSampleId :

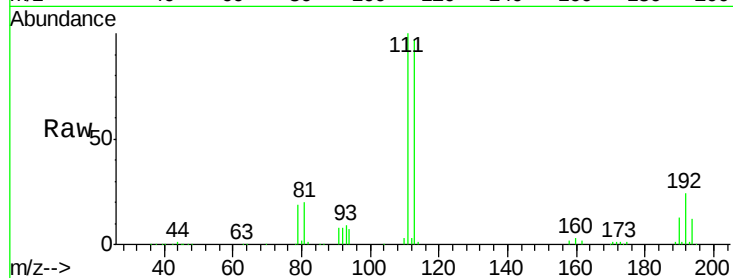
Tot Ion:113 Resp: 139999

Ion Ratio Lower Upper

113 100

111 103.5 81.4 122.0

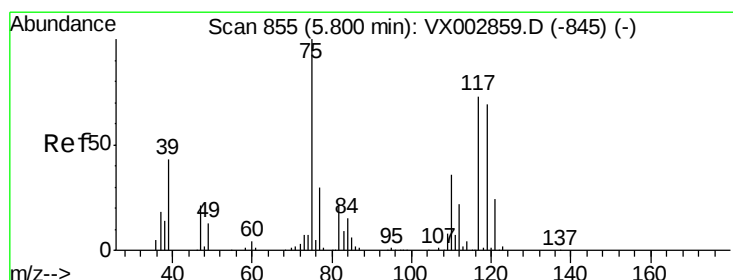
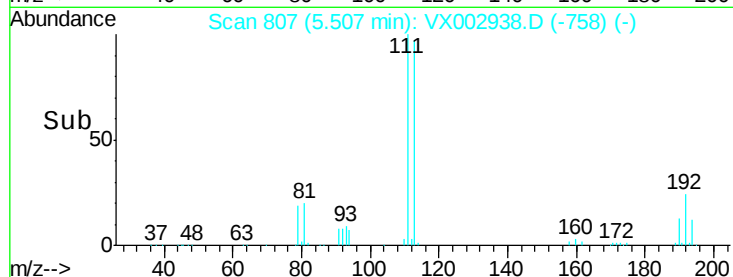
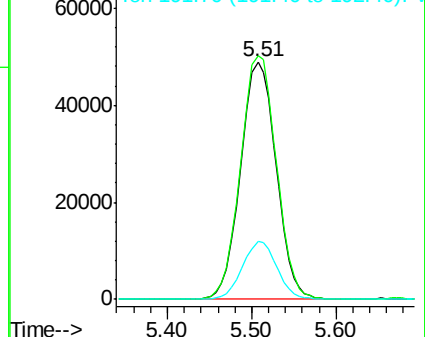
192 23.8 19.1 28.7



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: 4.41 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002938.D

Acq: 27 Jun 2018 16:04

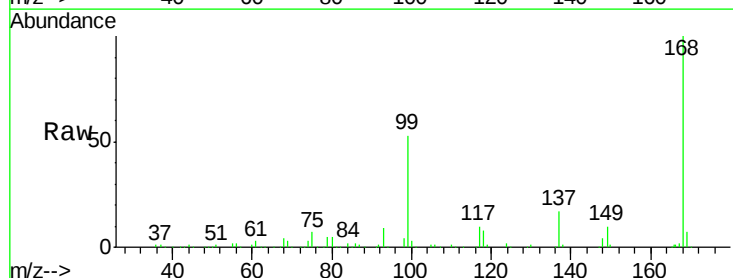
Tgt Ion: 75 Resp: 18282

Ion Ratio Lower Upper

75 100

110 10.0 18.1 54.4#

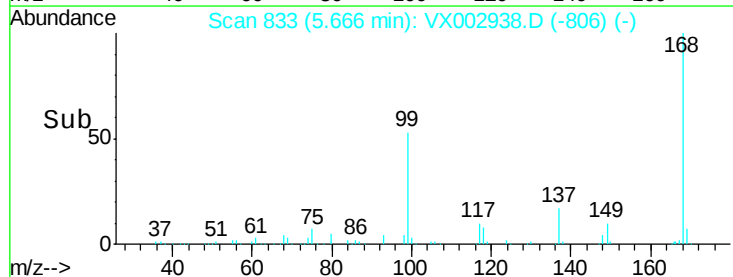
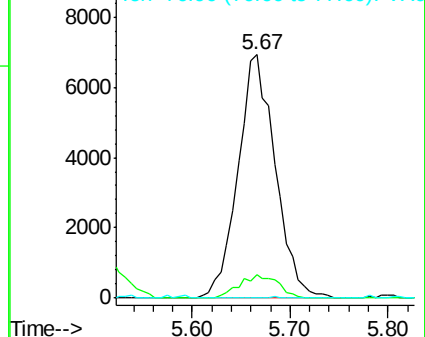
77 0.1 24.3 36.5#

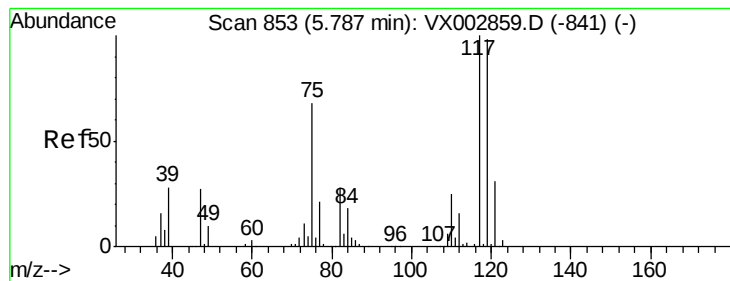


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.30 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002938.D

Acq: 27 Jun 2018 16:04

Instrument :

MSVOA_X

ClientSampleId :

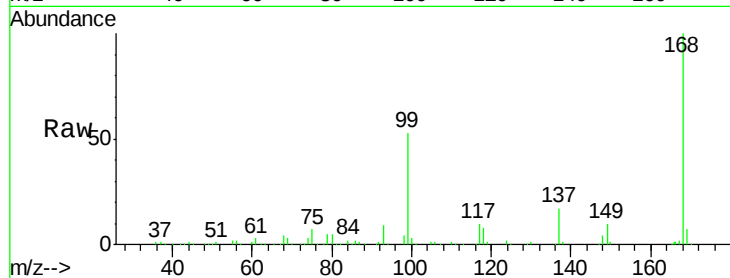
Tot Ion:117 Resp: 24113

Ion Ratio Lower Upper

117 100

119 5.5 77.4 116.0#

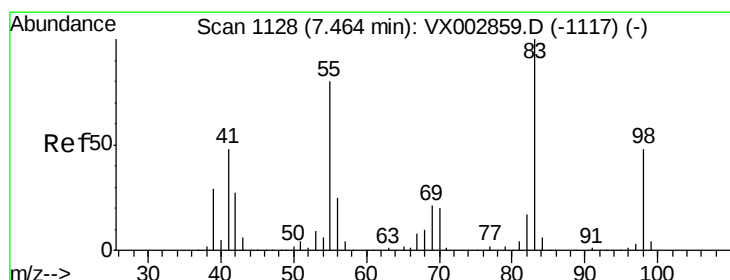
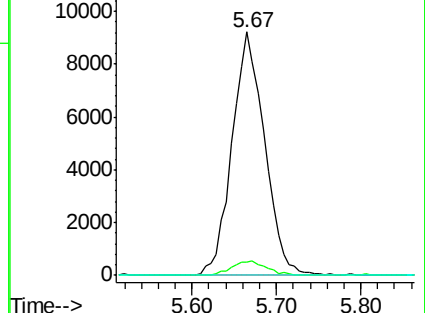
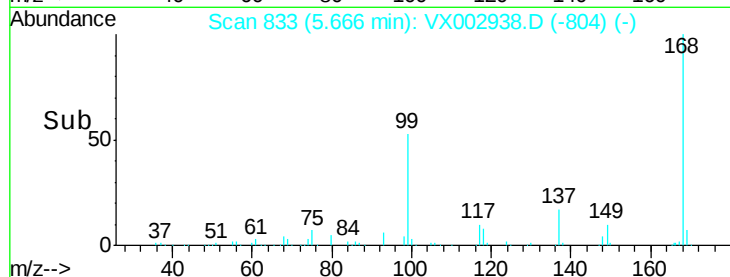
121 0.0 24.4 36.6#



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



#39

Methylcyclohexane

Concen: 0.31 ug/l

RT: 7.47 min Scan# 1129

Delta R.T. 0.01 min

Lab File: VX002938.D

Acq: 27 Jun 2018 16:04

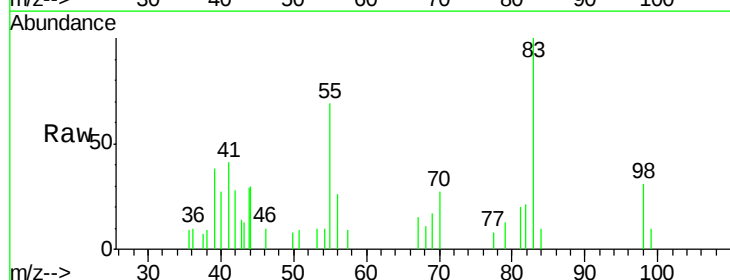
Tgt Ion: 83 Resp: 1521

Ion Ratio Lower Upper

83 100

55 68.8 65.4 98.0

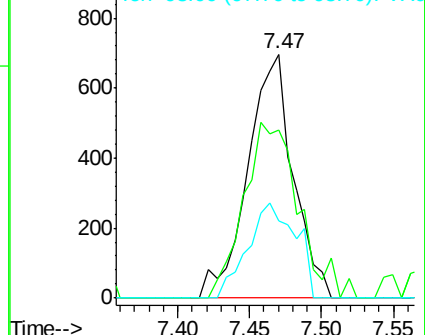
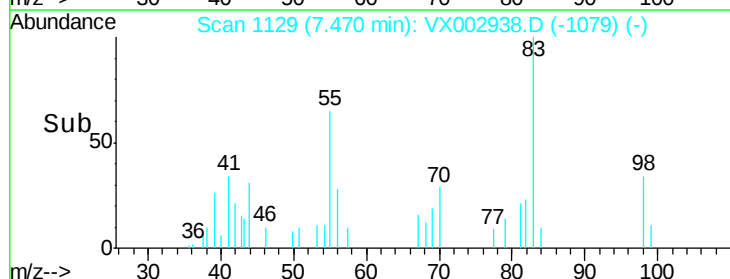
98 31.5 37.4 56.0#

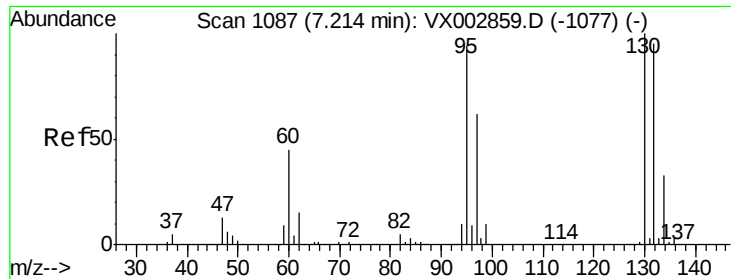


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

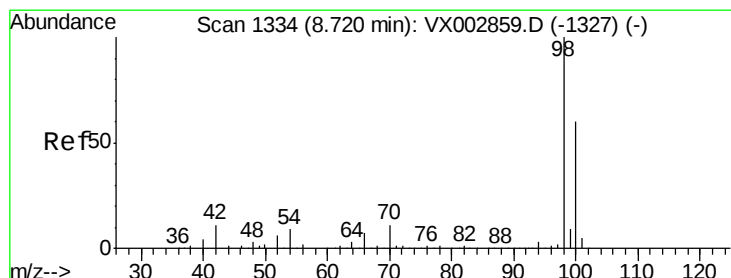
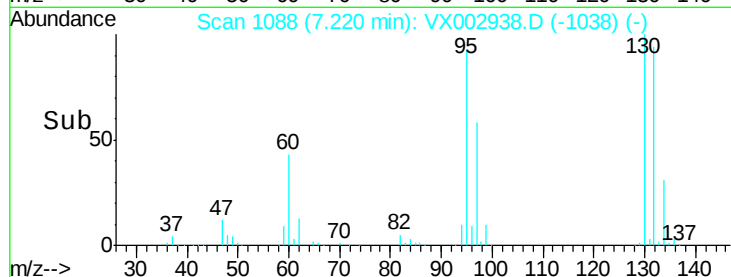
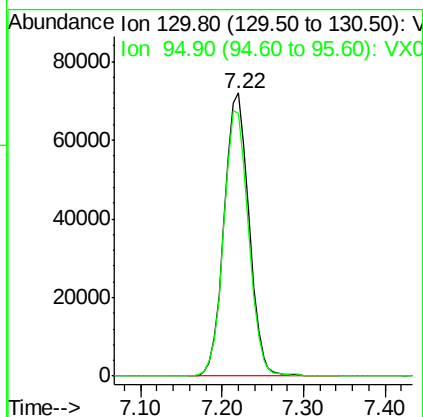
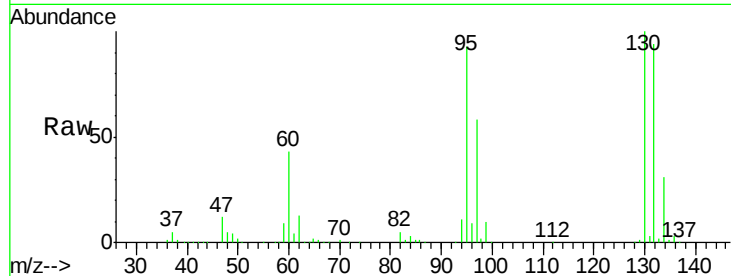




#44
 Trichloroethene
 Concen: 42.22 ug/l
 RT: 7.22 min Scan# 1088
 Delta R.T. 0.01 min
 Lab File: VX002938.D
 Acq: 27 Jun 2018 16:04

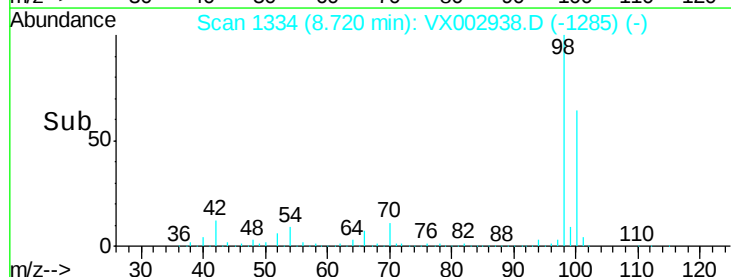
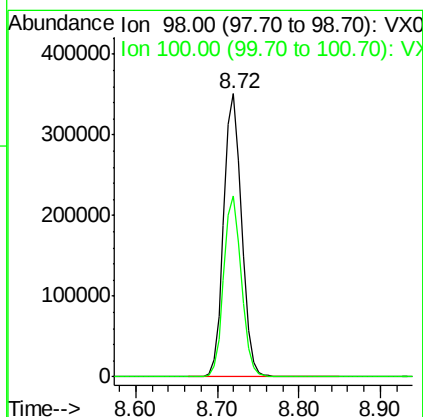
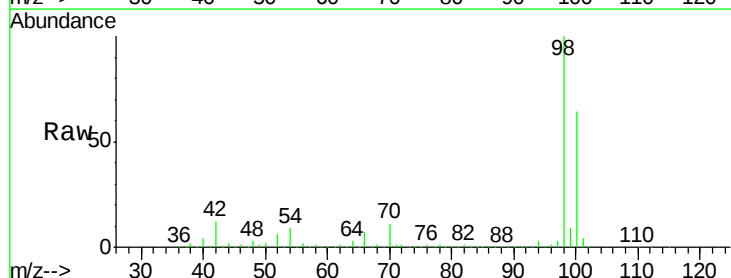
Instrument :
 MSVOA_X
 ClientSampleId :

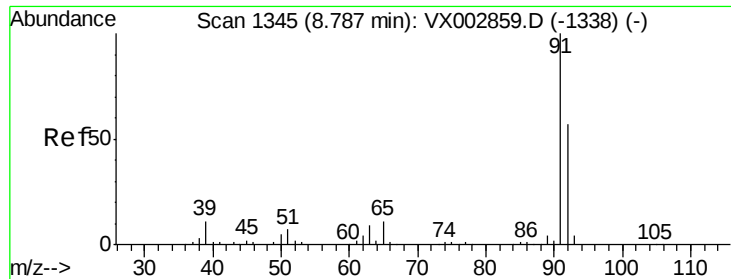
Tot Ion:130 Resp: 151628
 Ion Ratio Lower Upper
 130 100
 95 93.1 0.0 185.4



#50
 Toluene-d8
 Concen: 48.87 ug/l
 RT: 8.72 min Scan# 1334
 Delta R.T. 0.00 min
 Lab File: VX002938.D
 Acq: 27 Jun 2018 16:04

Tgt Ion: 98 Resp: 534255
 Ion Ratio Lower Upper
 98 100
 100 63.3 50.9 76.3





#52

Toluene

Concen: 1.05 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. -0.00 min

Lab File: VX002938.D

Acq: 27 Jun 2018 16:04

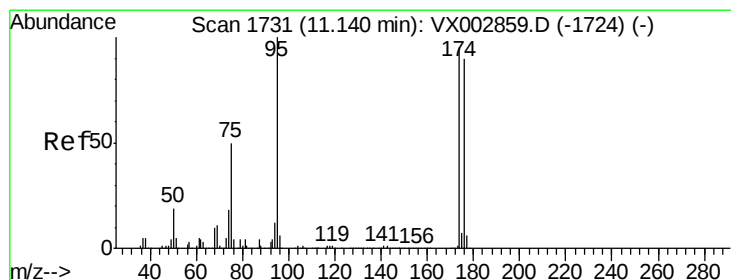
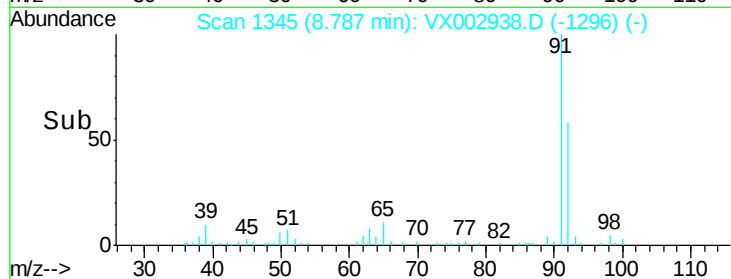
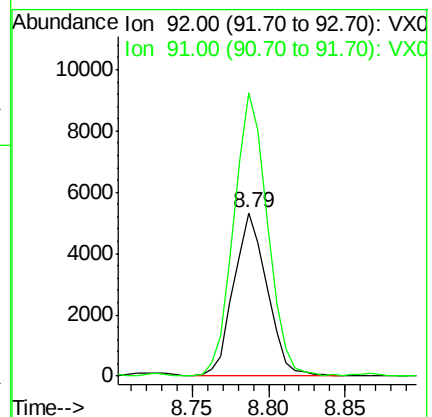
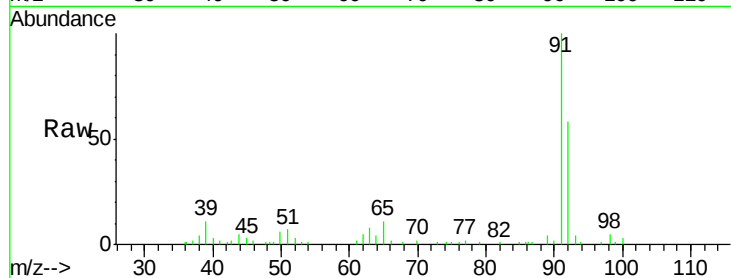
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 92 Resp: 8091

Ion Ratio Lower Upper

92 100

91 174.4 140.4 210.6



#62

4-Bromofluorobenzene

Concen: 45.48 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002938.D

Acq: 27 Jun 2018 16:04

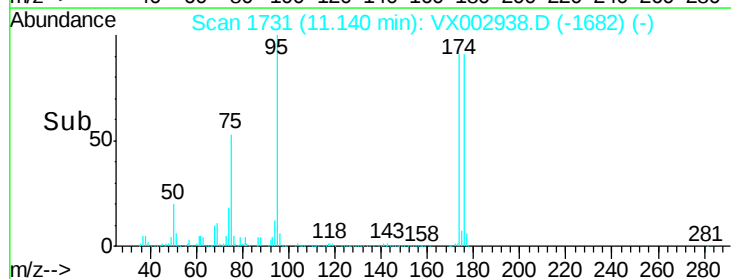
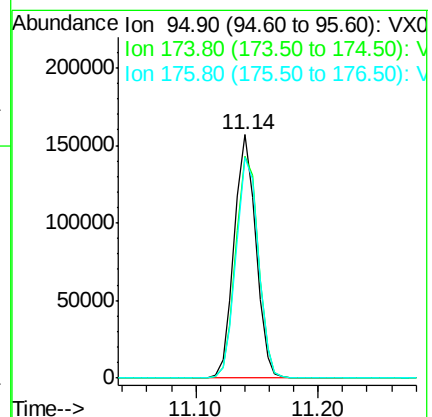
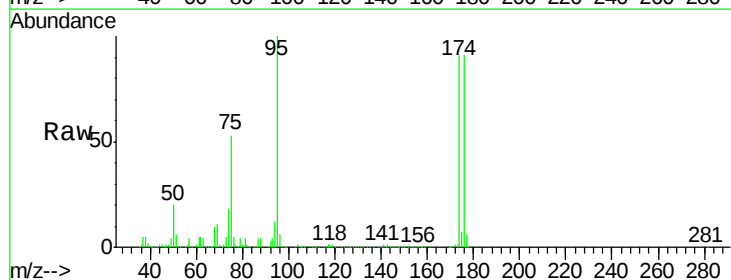
Tgt Ion: 95 Resp: 191765

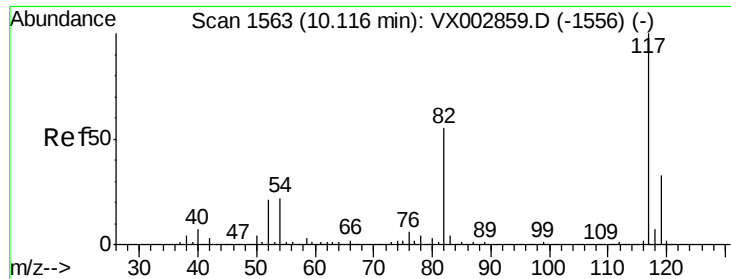
Ion Ratio Lower Upper

95 100

174 95.3 0.0 187.4

176 93.3 0.0 181.0

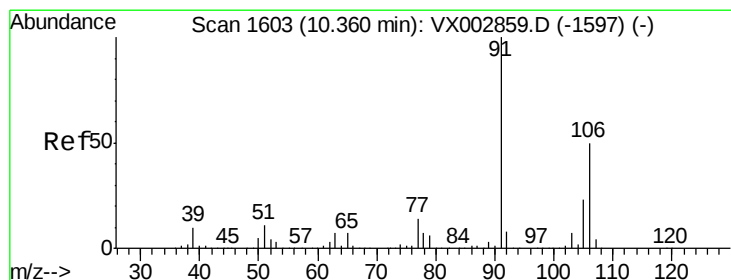
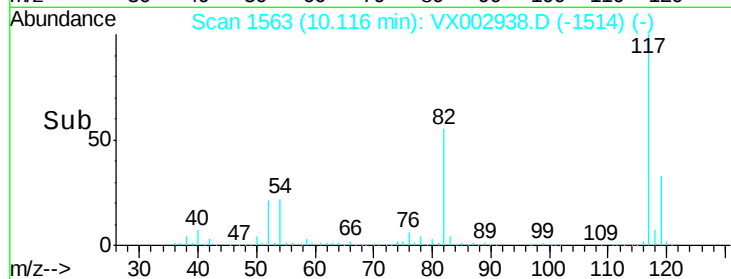
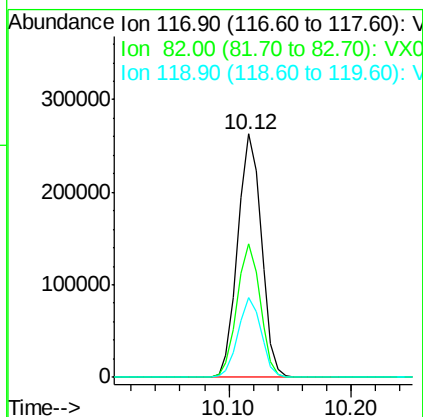
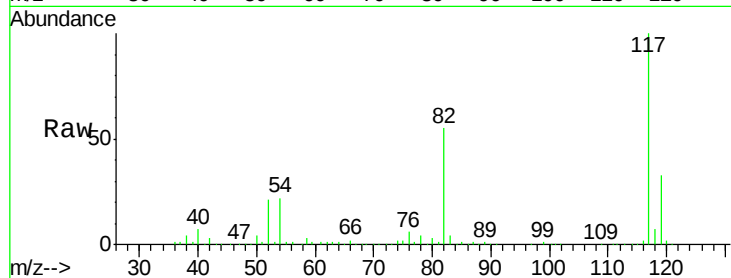




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002938.D
Acq: 27 Jun 2018 16:04

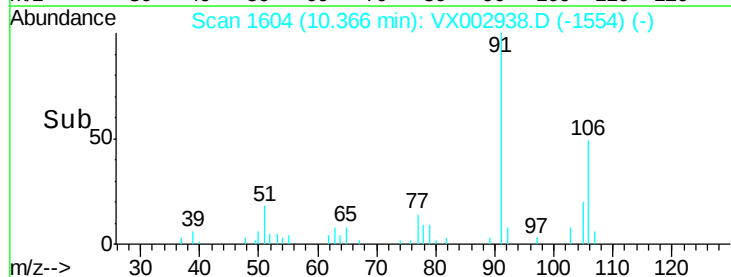
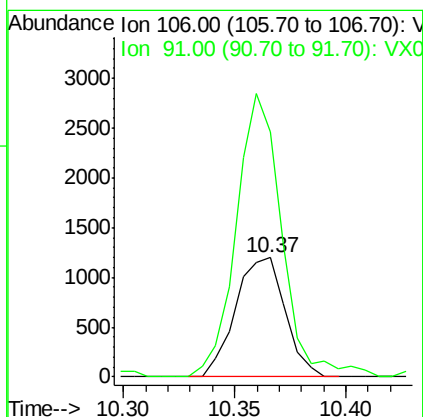
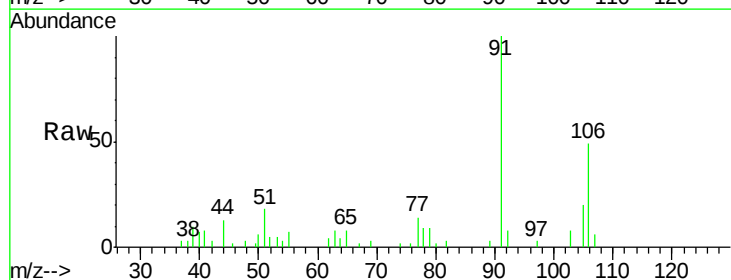
Instrument :
MSVOA_X
ClientSampleId :

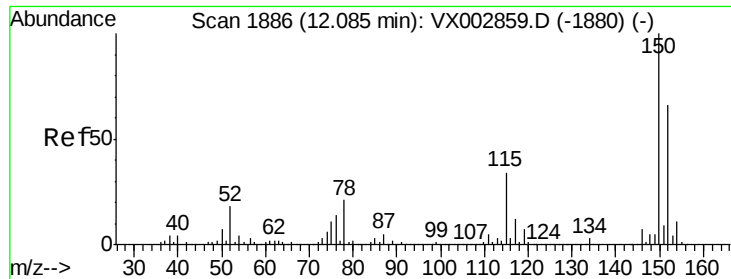
Tot Ion:117 Resp: 351625
Ion Ratio Lower Upper
117 100
82 54.9 45.0 67.4
119 32.7 25.8 38.6



#68
m/p-Xylenes
Concen: 0.33 ug/l
RT: 10.37 min Scan# 1604
Delta R.T. 0.01 min
Lab File: VX002938.D
Acq: 27 Jun 2018 16:04

Tgt Ion:106 Resp: 1855
Ion Ratio Lower Upper
106 100
91 218.9 163.4 245.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX002938.D

Acq: 27 Jun 2018 16:04

Instrument :

MSVOA_X

ClientSampleId :

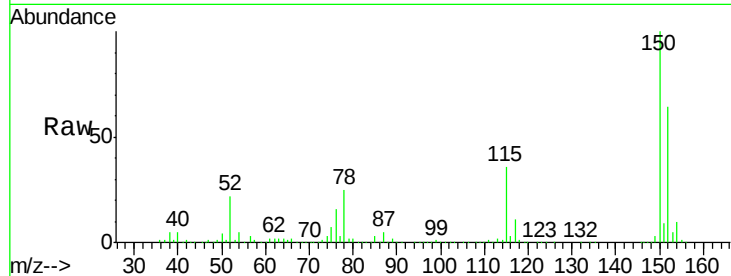
Tot Ion:152 Resp: 203351

Ion Ratio Lower Upper

152 100

115 54.5 40.1 120.2

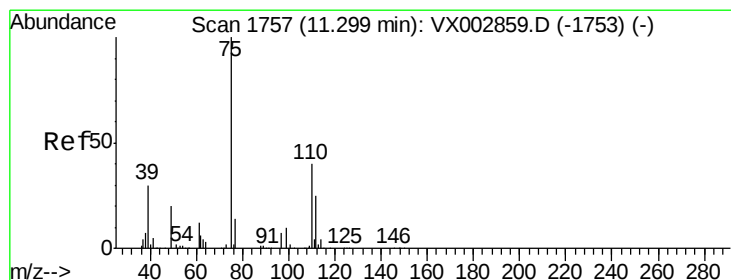
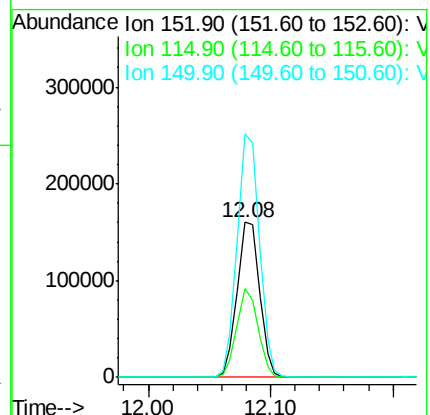
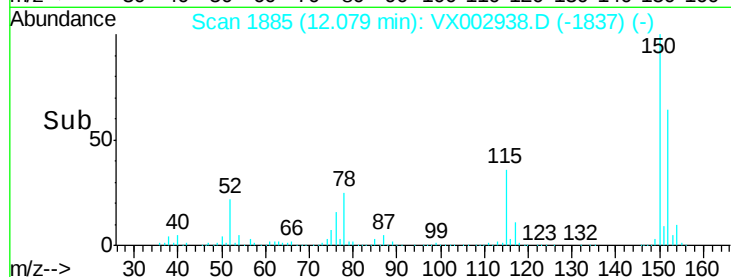
150 156.3 0.0 347.2



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: 27.31 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002938.D

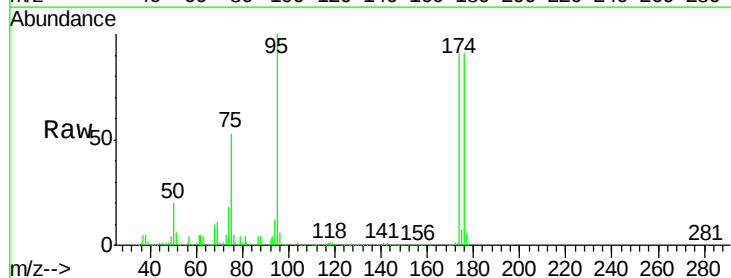
Acq: 27 Jun 2018 16:04

Tgt Ion: 75 Resp: 100594

Ion Ratio Lower Upper

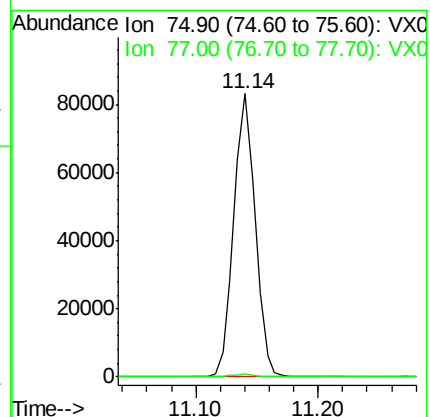
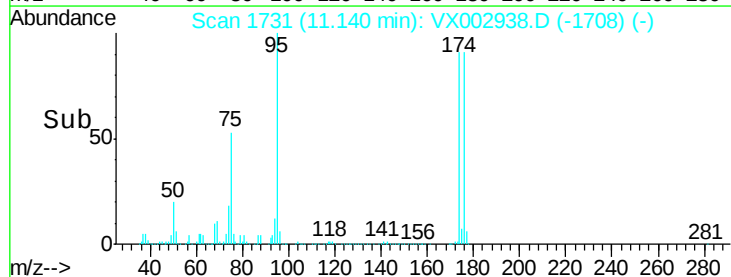
75 100

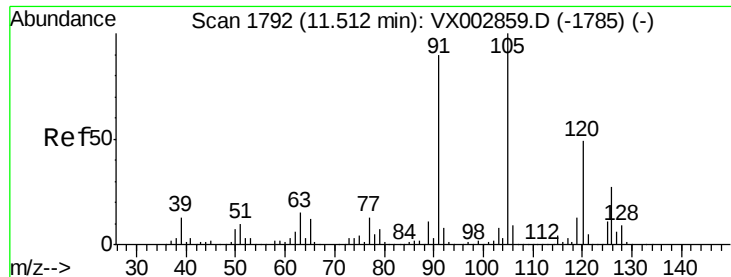
77 1.3 22.8 68.3#



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: 0.35 ug/l

RT: 11.51 min Scan# 1791

Delta R.T. -0.01 min

Lab File: VX002938.D

Acq: 27 Jun 2018 16:04

Instrument :

MSVOA_X

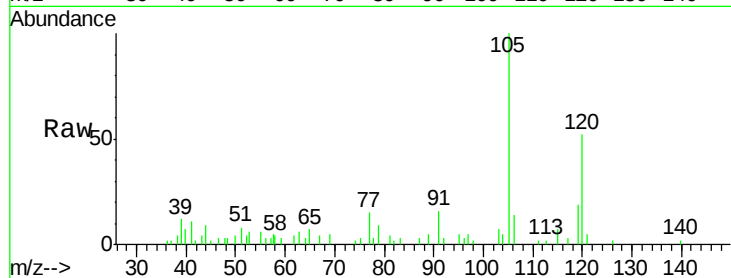
ClientSampleId :

Tot Ion:105 Resp: 4056

Ion Ratio Lower Upper

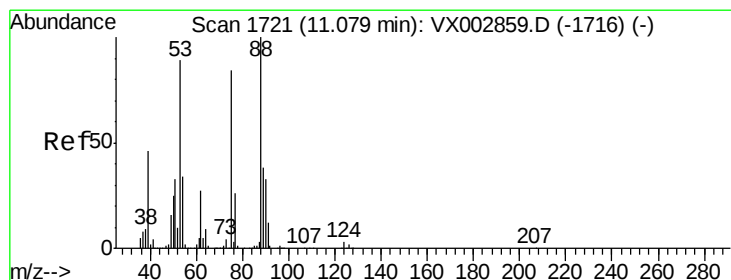
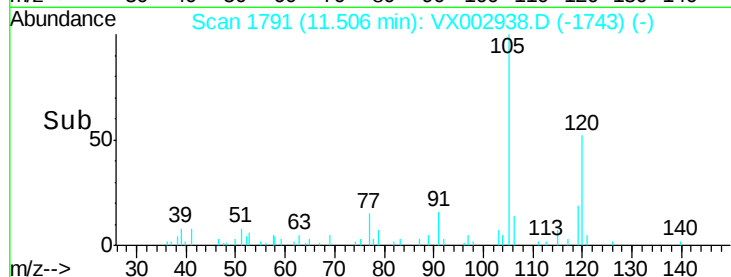
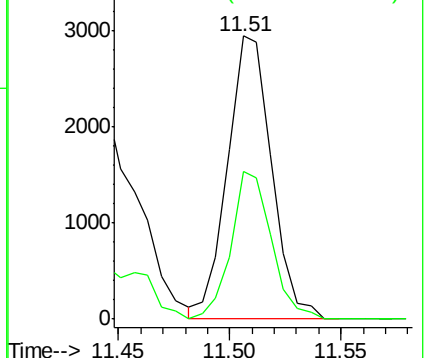
105 100

120 47.8 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: 77.27 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002938.D

Acq: 27 Jun 2018 16:04

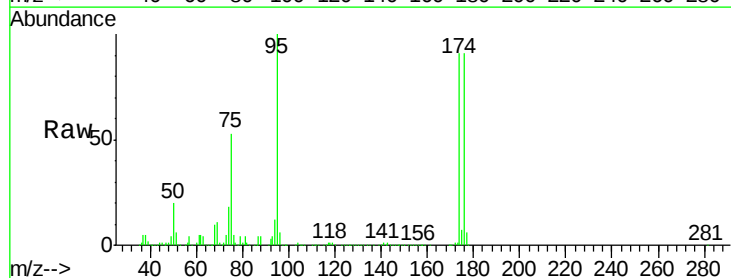
Tgt Ion: 75 Resp: 100594

Ion Ratio Lower Upper

75 100

53 0.4 86.8 130.2#

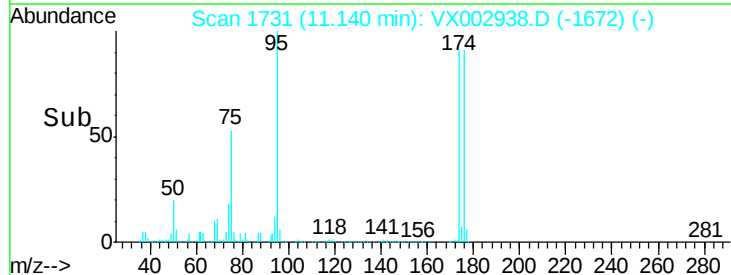
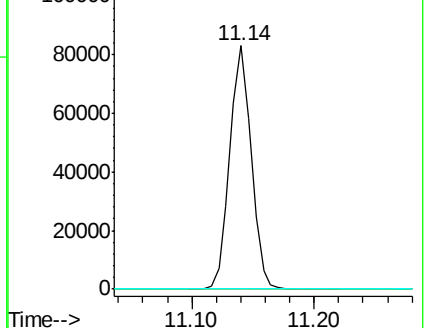
89 0.1 38.2 57.2#

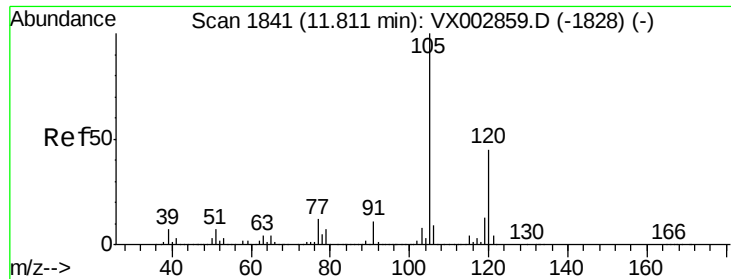


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

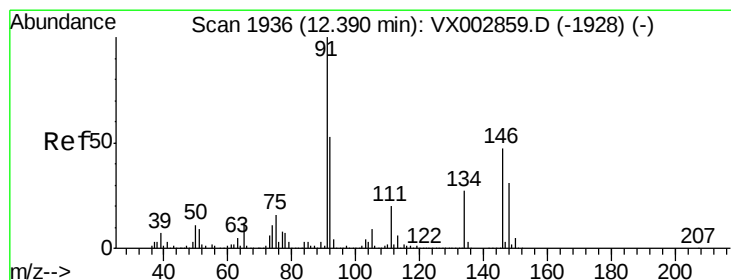
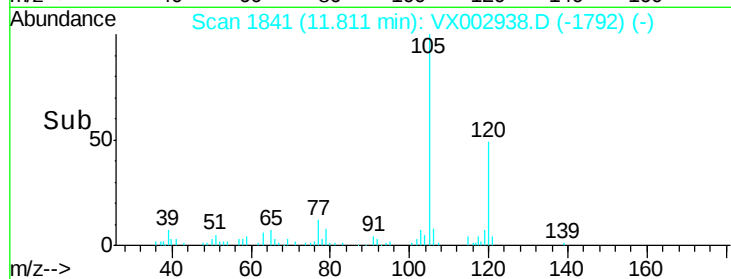
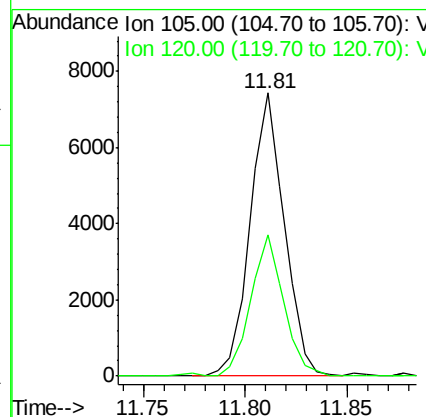
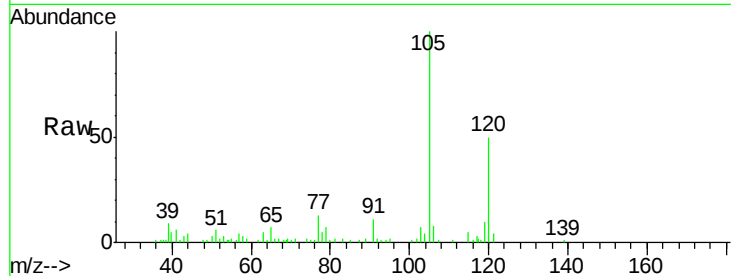




#84
 1,2,4-Trimethylbenzene
 Concen: 0.73 ug/l
 RT: 11.81 min Scan# 1841
 Delta R.T. -0.00 min
 Lab File: VX002938.D
 Acq: 27 Jun 2018 16:04

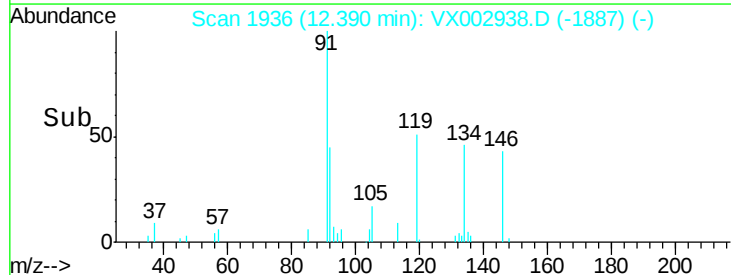
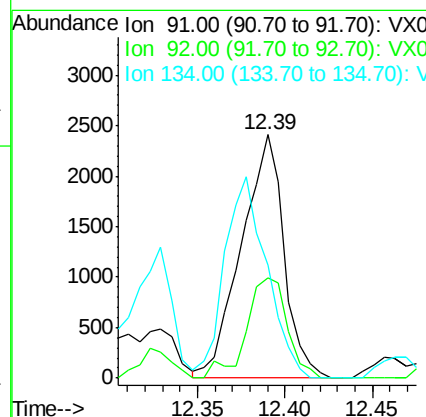
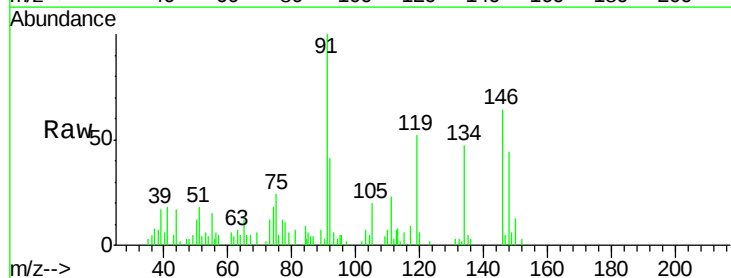
Instrument :
 MSVOA_X
 ClientSampled :

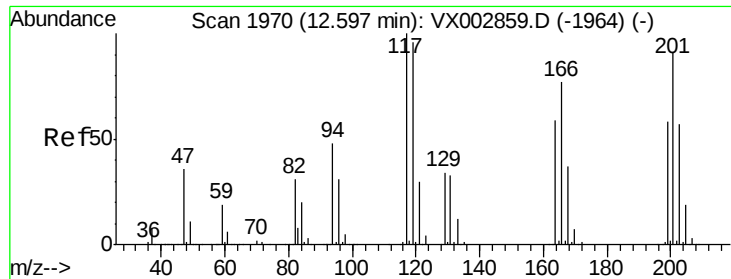
Tot Ion:105 Resp: 8679
 Ion Ratio Lower Upper
 105 100
 120 47.8 22.3 66.8



#89
 n-Butylbenzene
 Concen: 0.38 ug/l
 RT: 12.39 min Scan# 1936
 Delta R.T. -0.00 min
 Lab File: VX002938.D
 Acq: 27 Jun 2018 16:04

Tgt Ion: 91 Resp: 4083
 Ion Ratio Lower Upper
 91 100
 92 39.6 26.0 78.0
 134 81.6 13.5 40.5#





#90

Hexachloroethane

Concen: 0.68 ug/l

RT: 12.61 min Scan# 1972

Delta R.T. 0.01 min

Lab File: VX002938.D

Acq: 27 Jun 2018 16:04

Instrument :

MSVOA_X

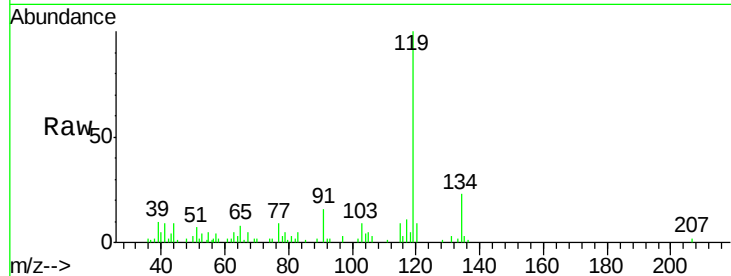
ClientSampleId :

Tot Ion:117 Resp: 1257

Ion Ratio Lower Upper

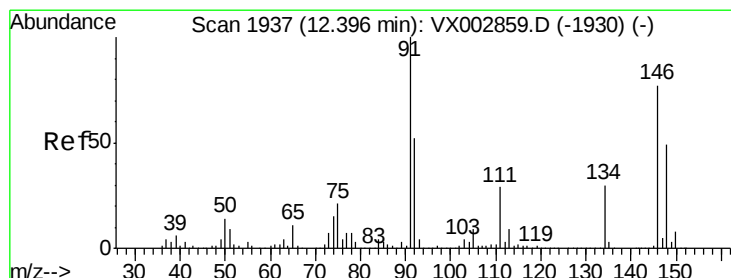
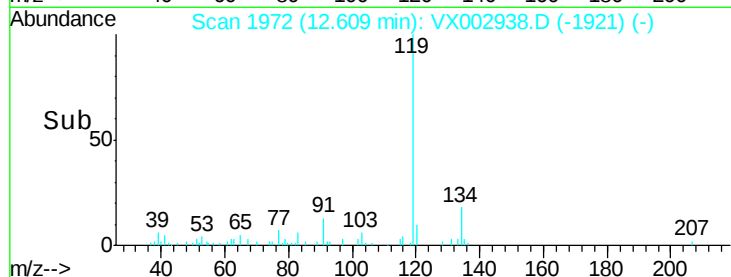
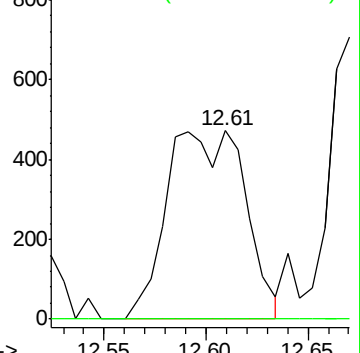
117 100

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



#91

1,2-Dichlorobenzene

Concen: 0.35 ug/l

RT: 12.40 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VX002938.D

Acq: 27 Jun 2018 16:04

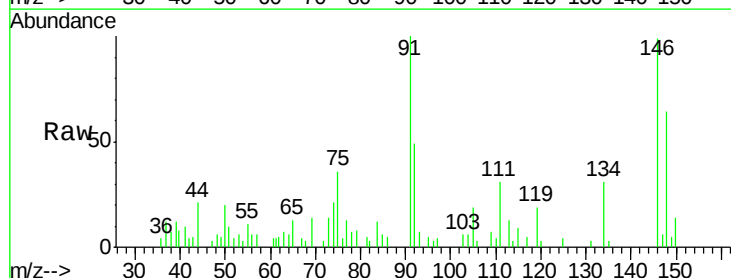
Tgt Ion:146 Resp: 2547

Ion Ratio Lower Upper

146 100

111 42.2 19.4 58.1

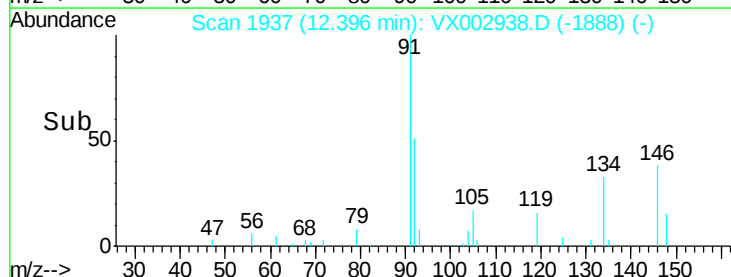
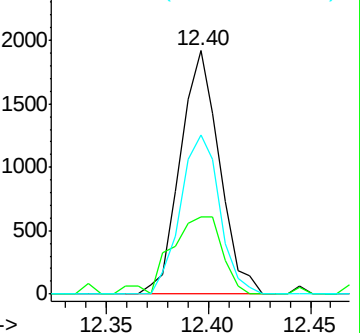
148 66.0 31.7 95.1

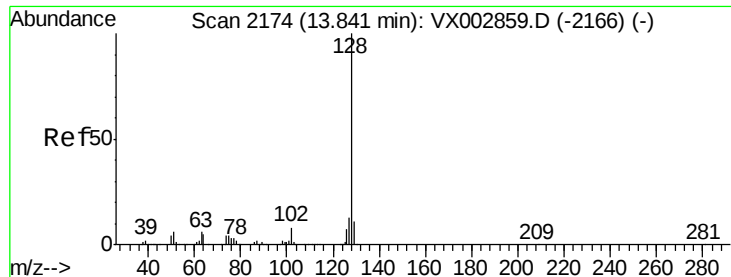


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

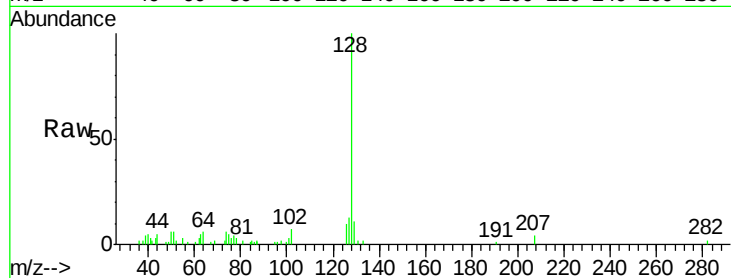




#95
Naphthalene
Concen: 0.47 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. -0.00 min
Lab File: VX002938.D
Acq: 27 Jun 2018 16:04

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.8	10.4	15.6#
129	13.0	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

