

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011519\
 Data File : VX007060.D
 Acq On : 15 Jan 2019 16:00
 Operator : JC/SP
 Sample : K1150-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS027-190114

Quant Time: Jan 16 00:05:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	542340	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	835716	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	785725	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	378121	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	289700	51.11	ug/l	0.00
Spiked Amount			Recovery	=	102.22%	
35) Dibromofluoromethane	5.51	113	258035	48.21	ug/l	0.00
Spiked Amount			Recovery	=	96.42%	
50) Toluene-d8	8.71	98	1000860	51.09	ug/l	0.00
Spiked Amount			Recovery	=	102.18%	
62) 4-Bromofluorobenzene	11.13	95	354864	51.96	ug/l	0.00
Spiked Amount			Recovery	=	103.92%	

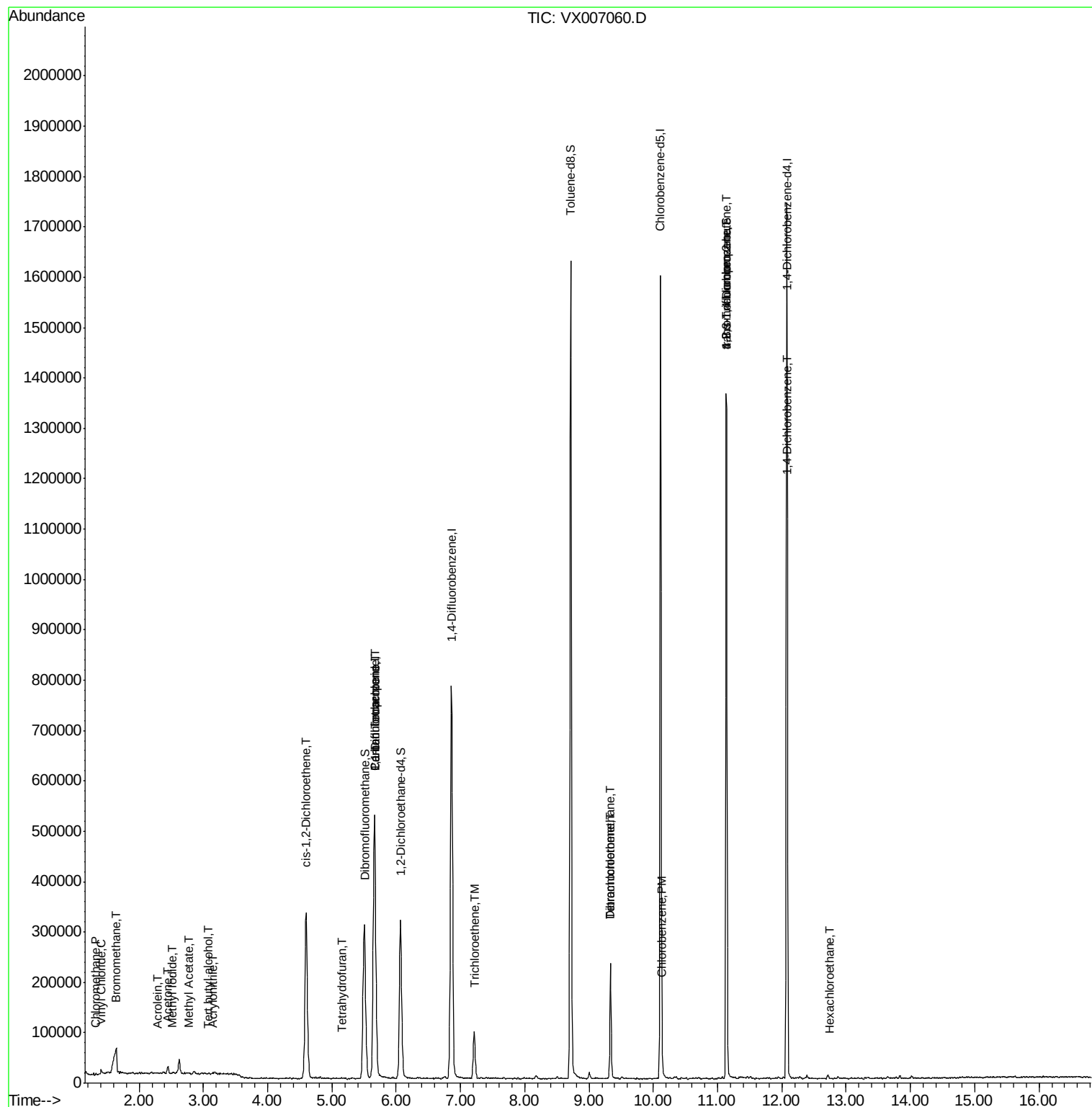
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	2973	0.573	ug/l #	88
4) Vinyl Chloride	1.41	62	5359	0.961	ug/l	98
5) Bromomethane	1.64	94	2092	0.351	ug/l #	79
10) Methyl Iodide	2.51	142	1833	0.252	ug/l #	82
11) Tert butyl alcohol	3.07	59	1590	1.189	ug/l #	91
13) Acrolein	2.29	56	493	3.929	ug/l #	62
15) Acrylonitrile	3.15	53	828	0.270	ug/l #	65
16) Acetone	2.45	43	16137	5.759	ug/l	96
18) Methyl Acetate	2.78	43	2150	0.265	ug/l #	88
20) Methylene Chloride	2.85	84	1152	Below Cal	#	77
27) cis-1,2-Dichloroethene	4.60	96	225568	36.816	ug/l	90
29) Tetrahydrofuran	5.15	42	717	0.275	ug/l #	83
36) 1,1-Dichloropropene	5.67	75	34196	4.706	ug/l #	49
38) Carbon Tetrachloride	5.66	117	49590	6.784	ug/l #	14
44) Trichloroethene	7.21	130	38377	5.777	ug/l	96
49) 1,4-Dioxane	7.76	88	108	Below Cal	#	1
60) Dibromochloromethane	9.34	129	41372	7.470	ug/l #	11
64) Tetrachloroethene	9.34	164	45782	6.730	ug/l	99
65) Chlorobenzene	10.14	112	7399	0.432	ug/l	100
76) 1,2,3-Trichloropropane	11.13	75	169296	22.094	ug/l #	41
81) trans-1,4-Dichloro-2-buten	11.13	75	169296	65.415	ug/l #	10
88) 1,4-Dichlorobenzene	12.09	146	1668	0.277	ug/l #	1
90) Hexachloroethane	12.74	117	128	2.940	ug/l	99

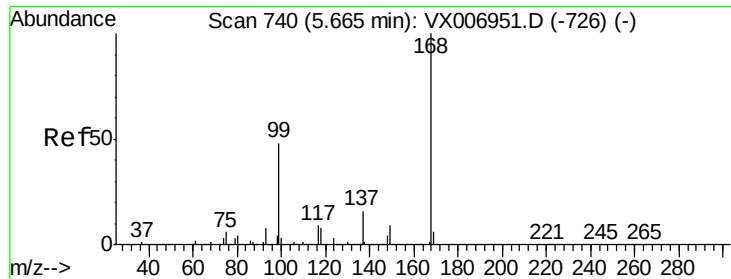
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VX007060.D
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Instrument :
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Quant Time: Jan 16 00:05:14 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 08 14:06:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX007060.D

Acq: 15 Jan 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

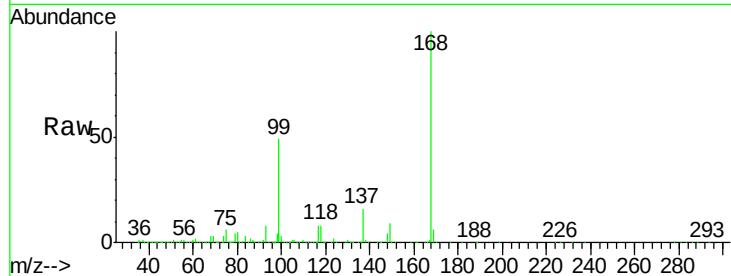
KY038PS027-190114

Tot Ion:168 Resp: 542340

Ion Ratio Lower Upper

168 100

99 49.1 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

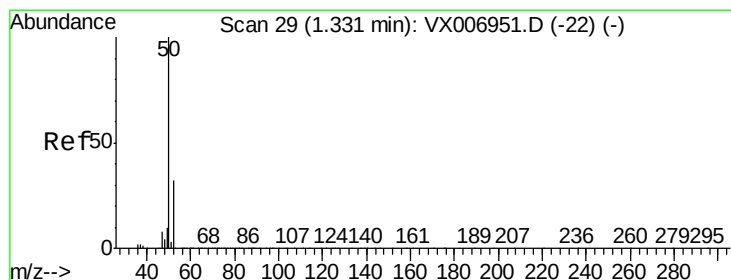
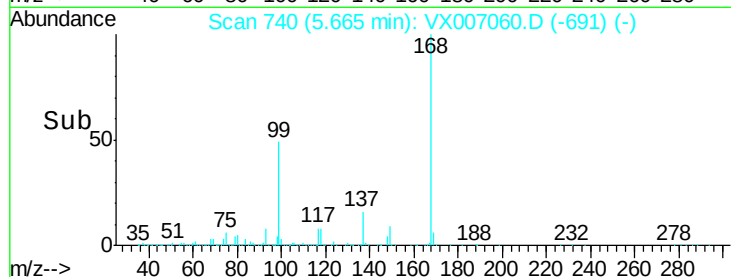
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.573 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX007060.D

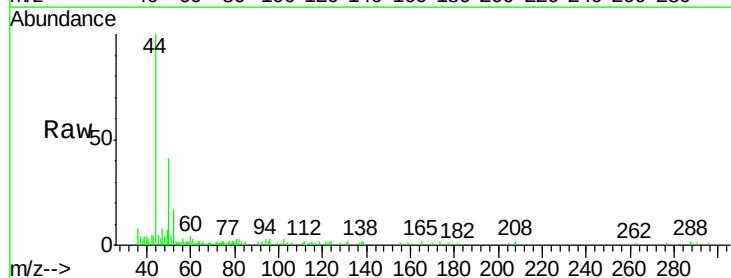
Acq: 15 Jan 2019 16:00

Tgt Ion: 50 Resp: 2973

Ion Ratio Lower Upper

50 100

52 38.6 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

2500

2000

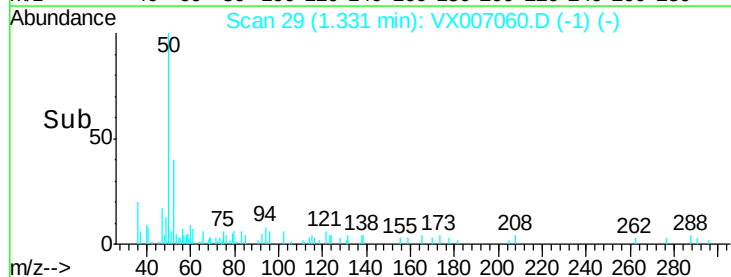
1500

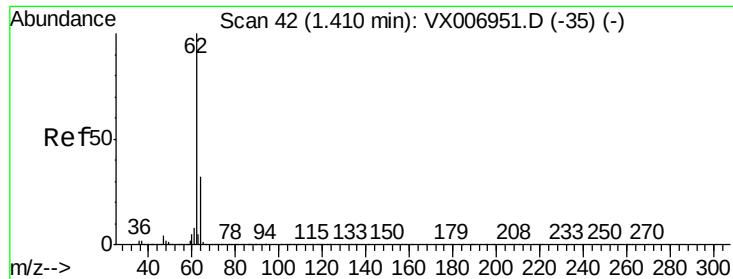
1000

500

0

Time-->





#4

Vinyl Chloride

Concen: 0.961 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX007060.D

Acq: 15 Jan 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

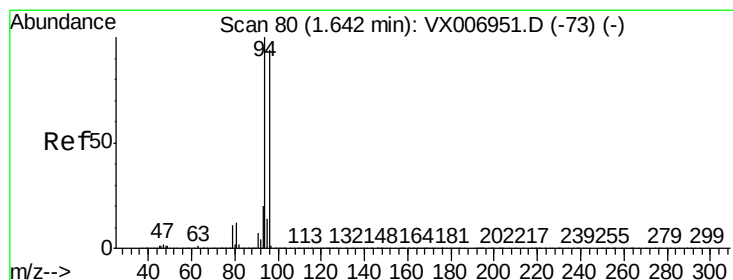
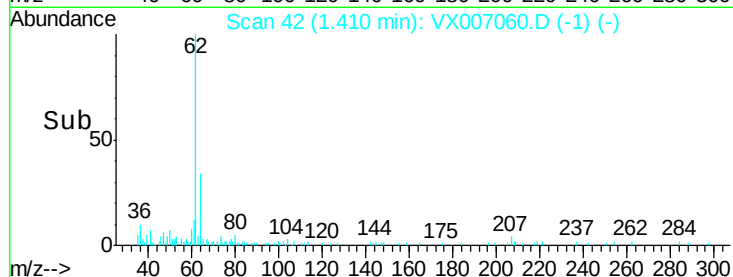
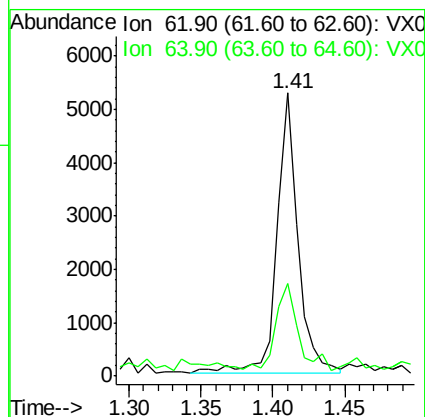
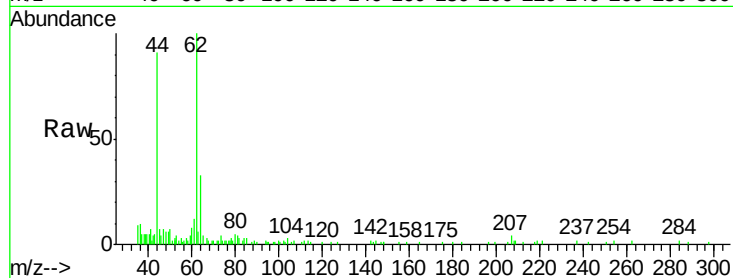
KY038PS027-190114

Tot Ion: 62 Resp: 5359

Ion Ratio Lower Upper

62 100

64 30.0 25.1 37.7



#5

Bromomethane

Concen: 0.351 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX007060.D

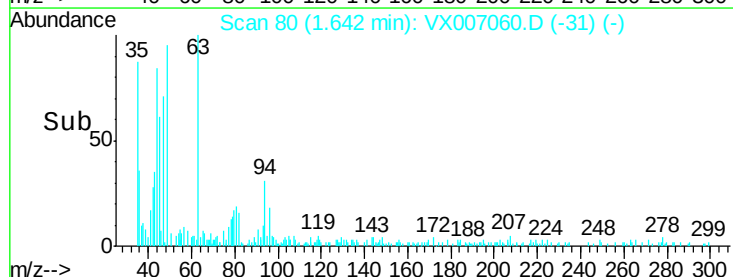
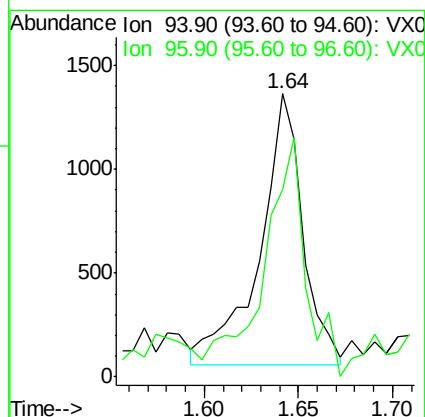
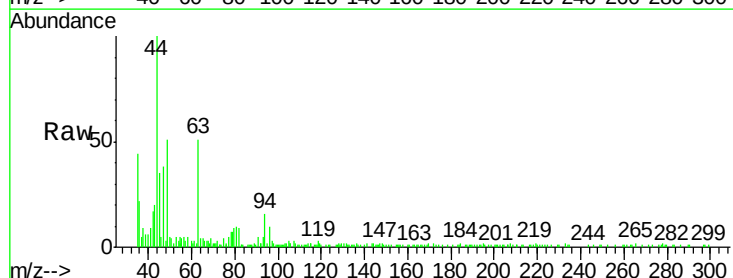
Acq: 15 Jan 2019 16:00

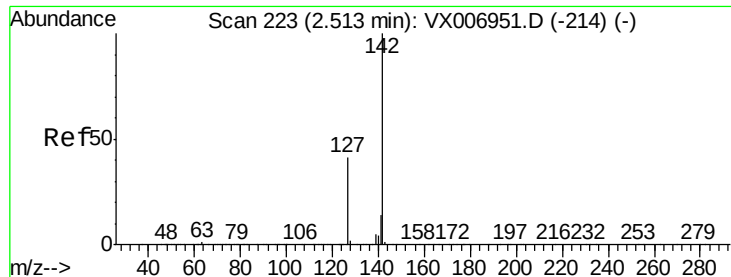
Tgt Ion: 94 Resp: 2092

Ion Ratio Lower Upper

94 100

96 71.4 73.4 110.2#

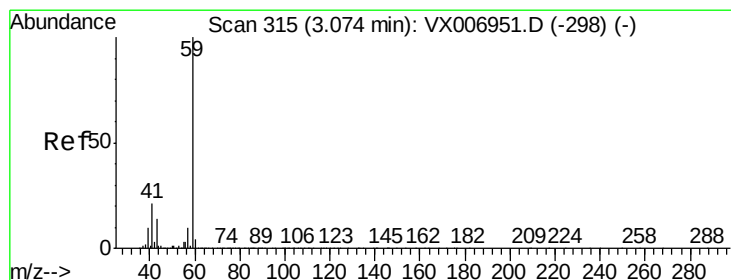
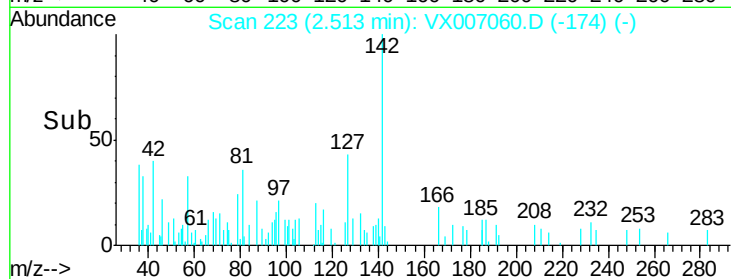
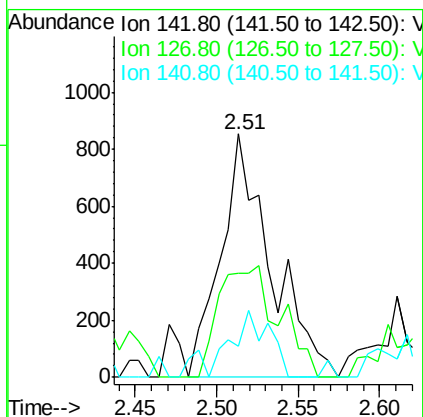
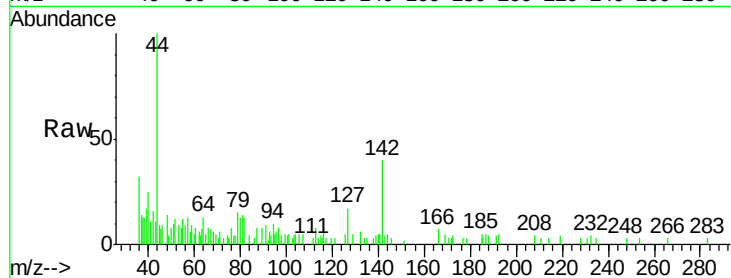




#10
Methvl Iodide
Concen: 0.252 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.00 min
Lab File: VX007060.D
Acq: 15 Jan 2019 16:00

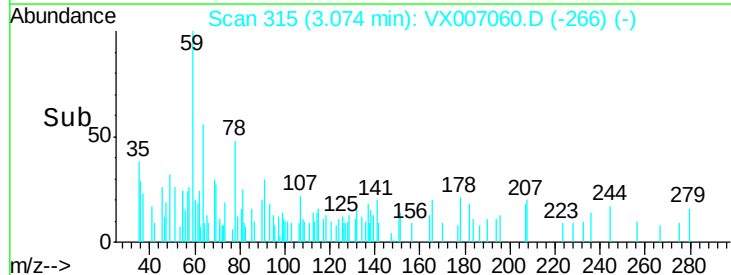
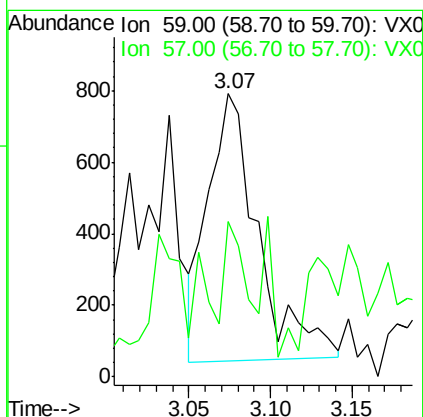
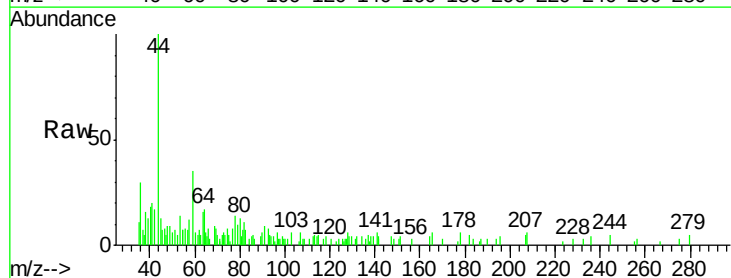
Instrument :
MSVOA_X
ClientSampleId :
KY038PS027-190114

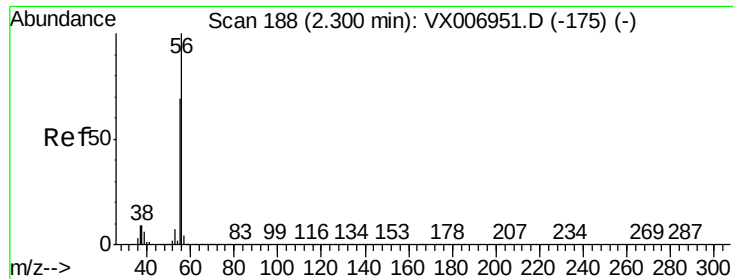
Tot Ion:142 Resp: 1833
Ion Ratio Lower Upper
142 100
127 54.9 33.9 50.9#
141 20.2 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.189 ug/l
RT: 3.07 min Scan# 315
Delta R.T. 0.00 min
Lab File: VX007060.D
Acq: 15 Jan 2019 16:00

Tgt Ion: 59 Resp: 1590
Ion Ratio Lower Upper
59 100
57 13.9 8.5 12.7#

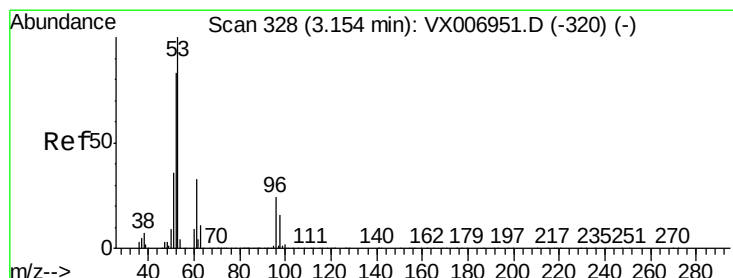
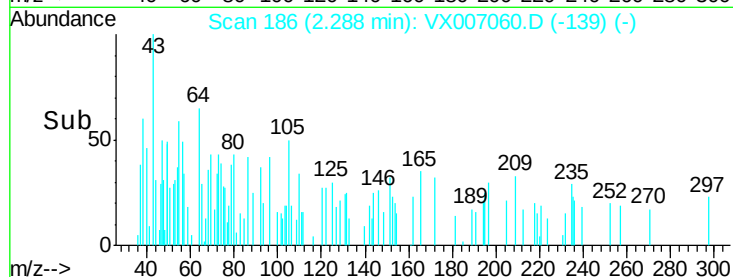
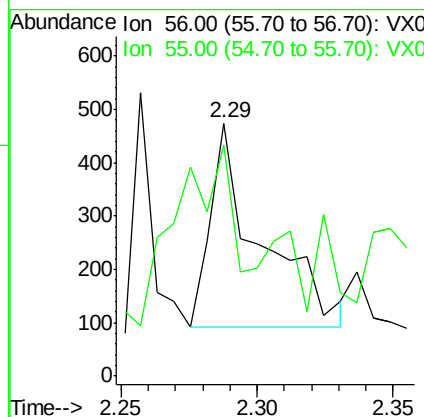
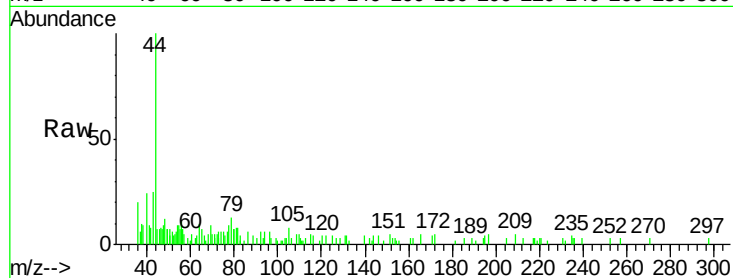




#13
Acrolein
Concen: 3.929 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX007060.D
Acq: 15 Jan 2019 16:00

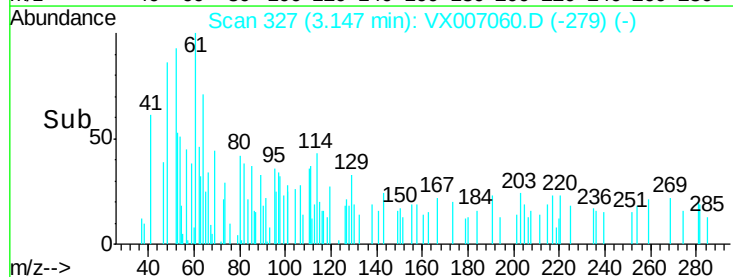
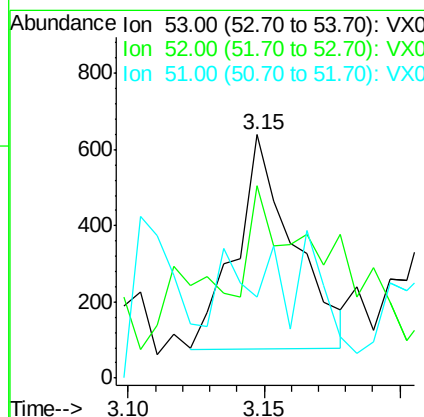
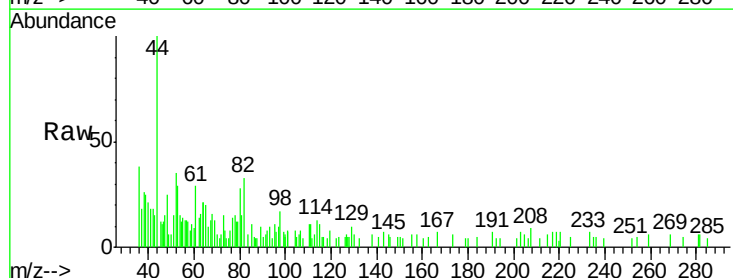
Instrument :
MSVOA_X
ClientSampleId :
KY038PS027-190114

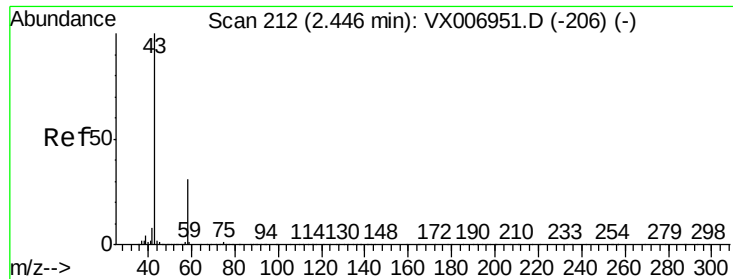
Tot Ion: 56 Resp: 493
Ion Ratio Lower Upper
56 100
55 104.9 58.2 87.4#



#15
Acrylonitrile
Concen: 0.270 ug/l
RT: 3.15 min Scan# 327
Delta R.T. -0.01 min
Lab File: VX007060.D
Acq: 15 Jan 2019 16:00

Tgt Ion: 53 Resp: 828
Ion Ratio Lower Upper
53 100
52 115.2 66.0 99.0#
51 17.5 28.6 42.8#

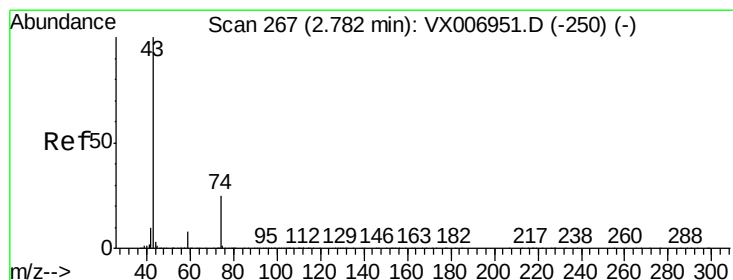
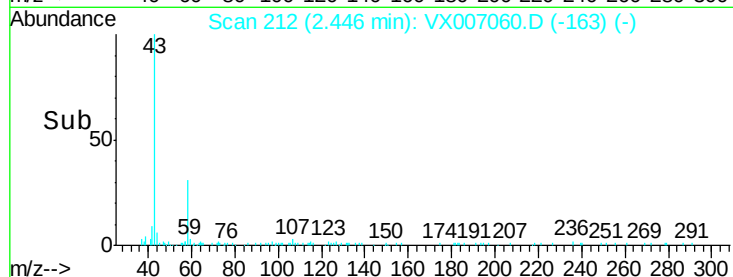
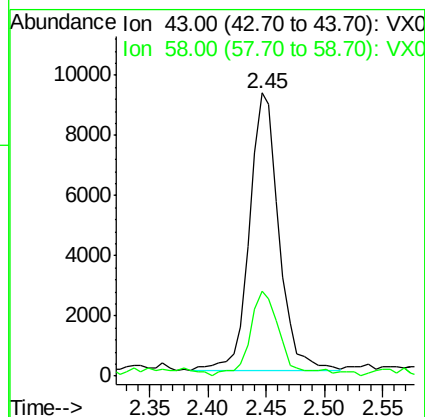
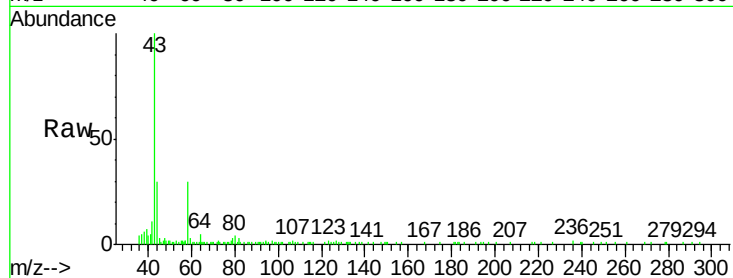




#16
Acetone
Concen: 5.759 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX007060.D
Acq: 15 Jan 2019 16:00

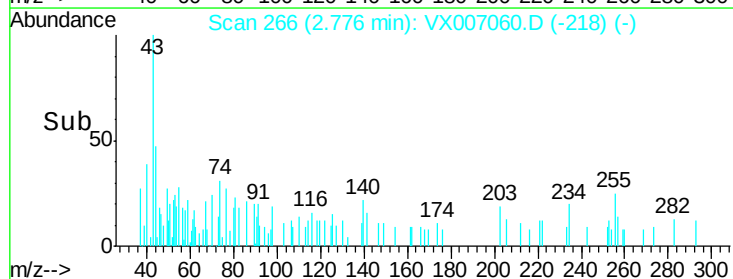
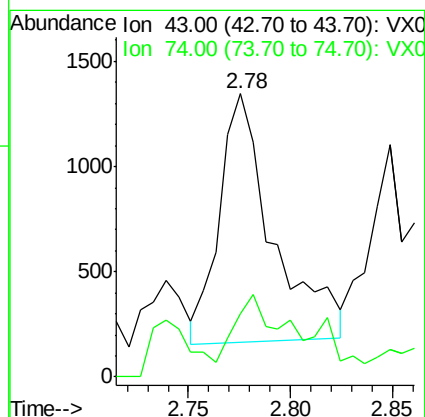
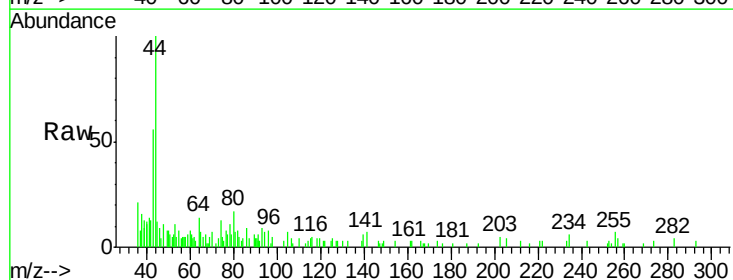
Instrument :
MSVOA_X
ClientSampleId :
KY038PS027-190114

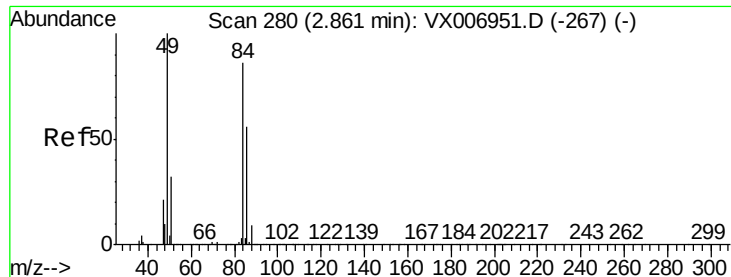
Tot Ion: 43 Resp: 16137
Ion Ratio Lower Upper
43 100
58 28.9 25.0 37.6



#18
Methyl Acetate
Concen: 0.265 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX007060.D
Acq: 15 Jan 2019 16:00

Tgt Ion: 43 Resp: 2150
Ion Ratio Lower Upper
43 100
74 29.2 18.6 28.0#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX007060.D

Acq: 15 Jan 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-190114

Tot Ion: 84 Resp: 1152

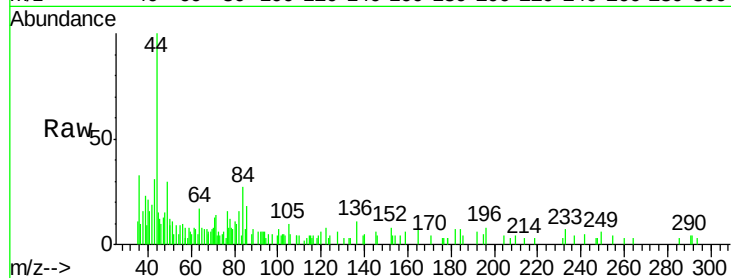
Ion Ratio Lower Upper

84 100

49 78.5 91.8 137.6#

51 26.3 28.5 42.7#

86 67.7 50.2 75.2

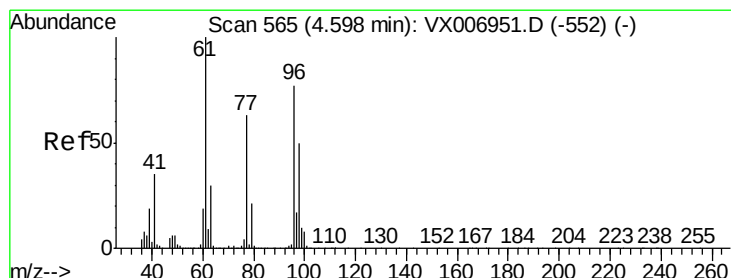
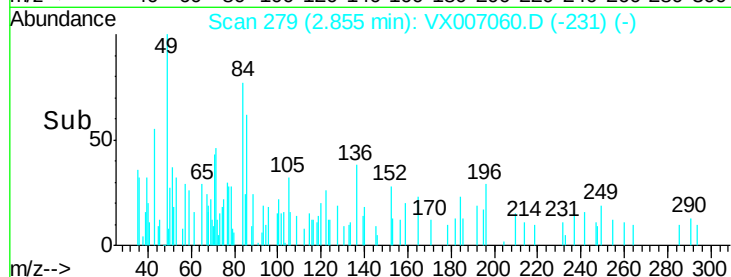
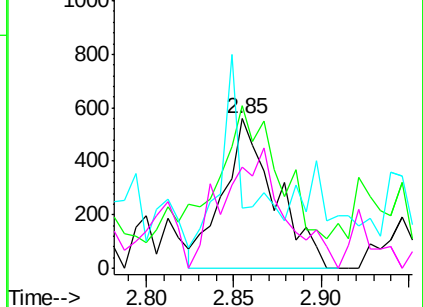


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#27

cis-1,2-Dichloroethene

Concen: 36.816 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.00 min

Lab File: VX007060.D

Acq: 15 Jan 2019 16:00

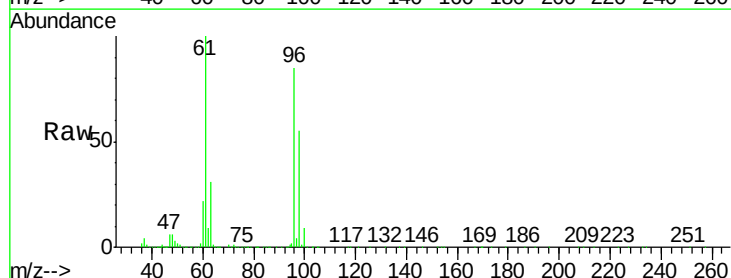
Tgt Ion: 96 Resp: 225568

Ion Ratio Lower Upper

96 100

61 114.7 0.0 258.6

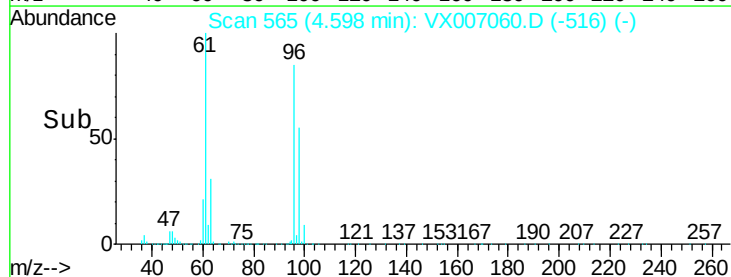
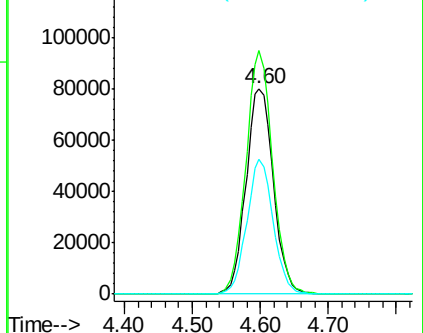
98 63.0 0.0 132.0

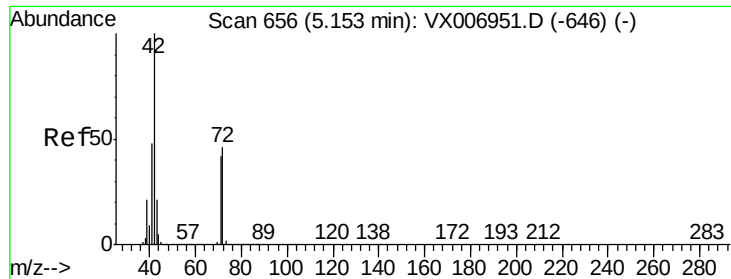


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#29

Tetrahydrofuran

Concen: 0.275 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.00 min

Lab File: VX007060.D

Acq: 15 Jan 2019 16:00

Instrument :

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ClientSampleId :

KY038PS027-190114

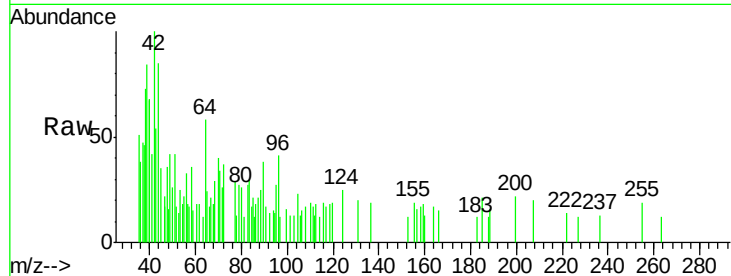
Tot Ion: 42 Resp: 717

Ion Ratio Lower Upper

42 100

72 34.2 38.9 58.3#

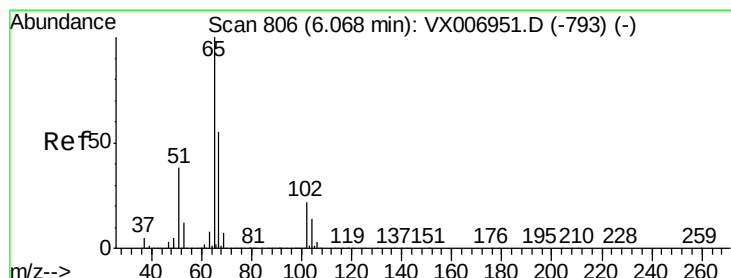
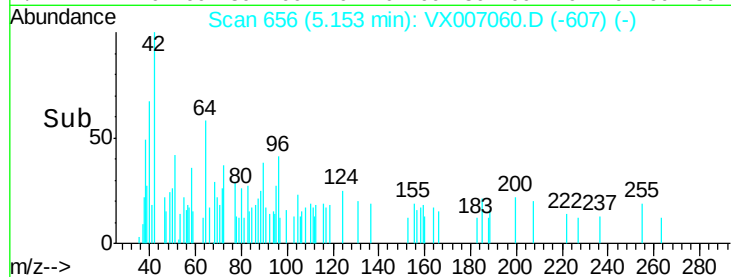
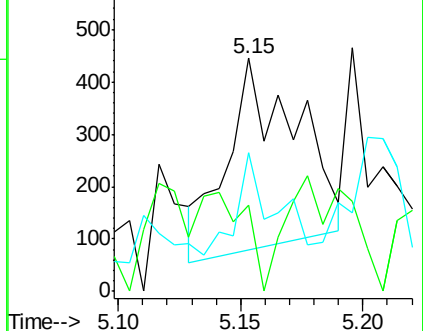
71 52.9 36.2 54.4



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 51.112 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007060.D

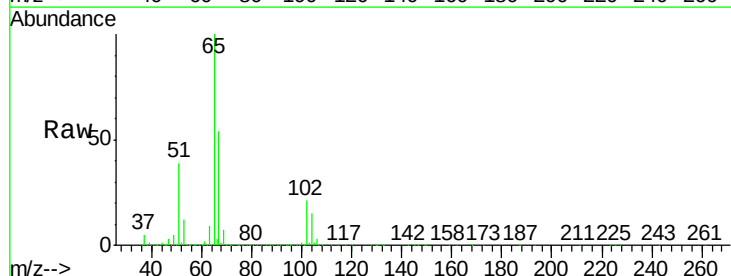
Acq: 15 Jan 2019 16:00

Tgt Ion: 65 Resp: 289700

Ion Ratio Lower Upper

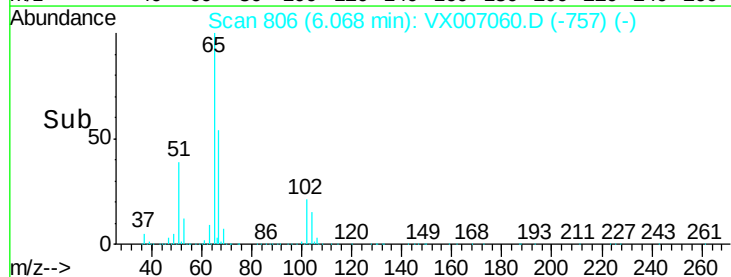
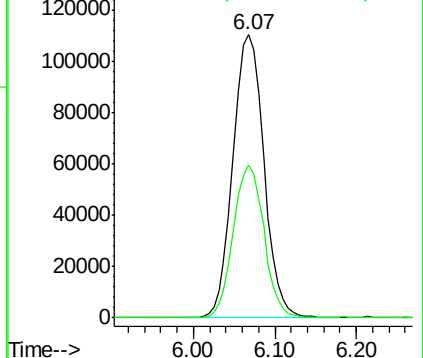
65 100

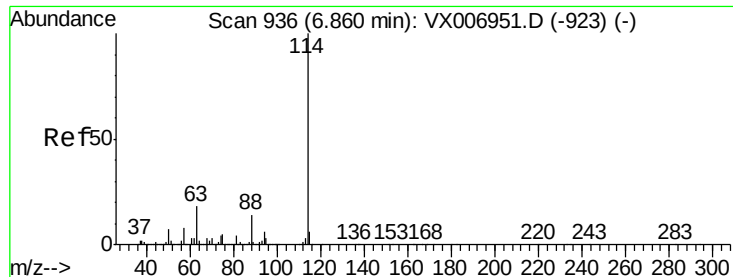
67 53.7 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007060.D

Acq: 15 Jan 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-190114

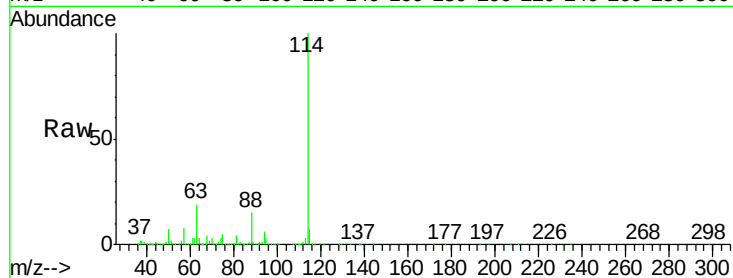
Tot Ion:114 Resp: 835716

Ion Ratio Lower Upper

114 100

63 19.0 0.0 34.8

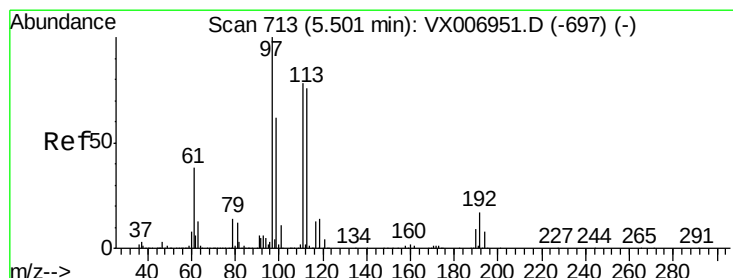
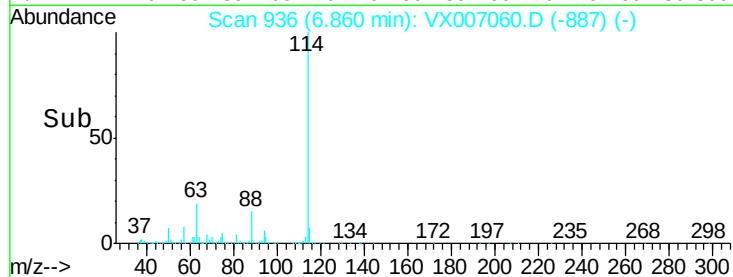
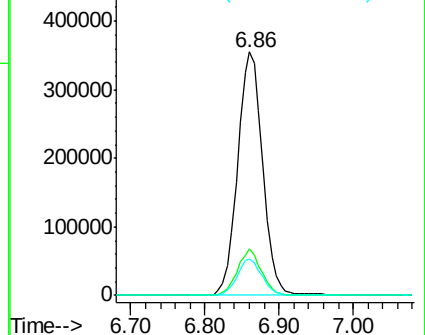
88 15.1 0.0 28.8



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: 48.214 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007060.D

Acq: 15 Jan 2019 16:00

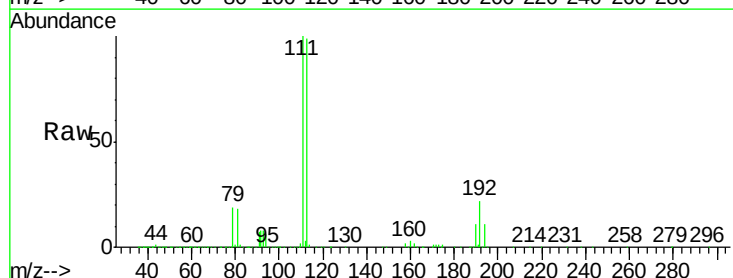
Tgt Ion:113 Resp: 258035

Ion Ratio Lower Upper

113 100

111 102.2 81.6 122.4

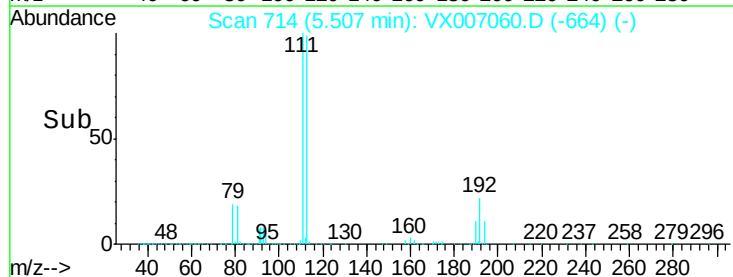
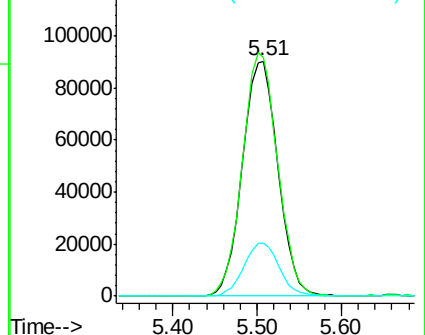
192 22.4 16.7 25.1

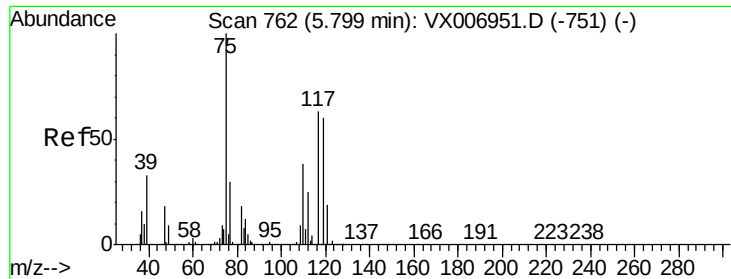


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

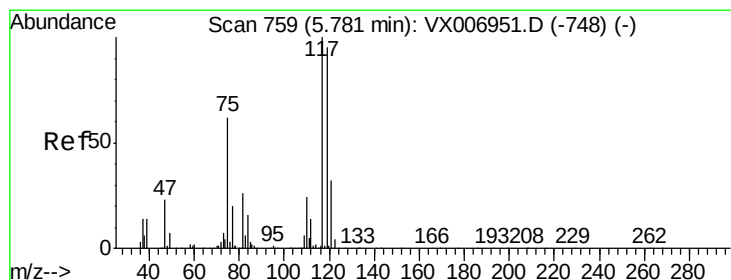
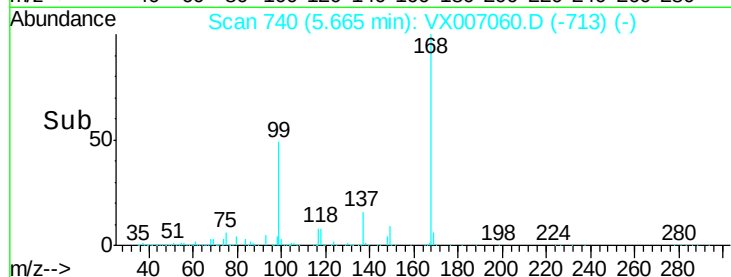
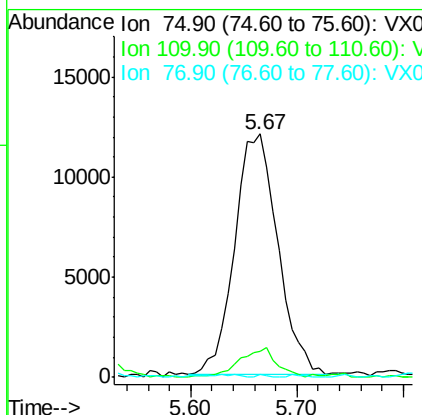
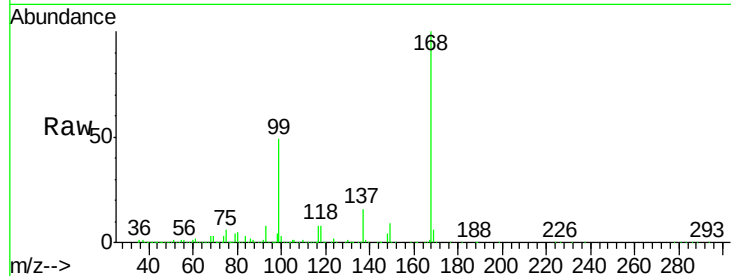




#36
 1,1-Dichloropropene
 Concen: 4.706 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX007060.D
 Acq: 15 Jan 2019 16:00

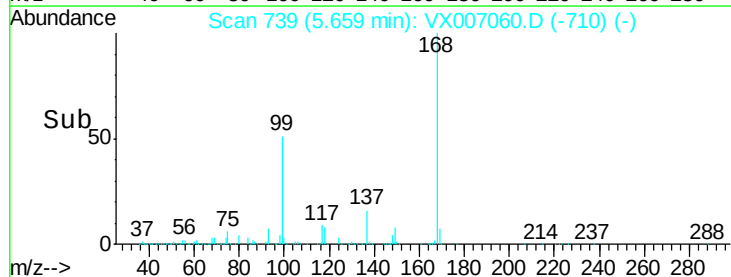
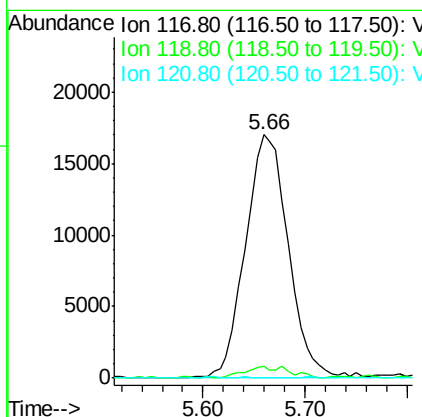
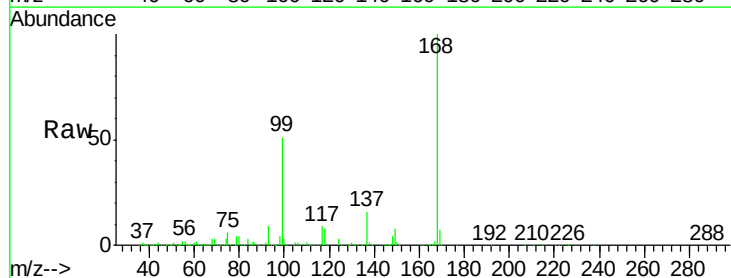
Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS027-190114

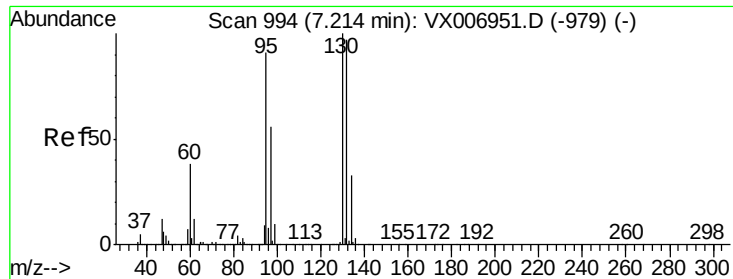
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.8	20.2	60.5#
77	0.2	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.784 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX007060.D
 Acq: 15 Jan 2019 16:00

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.4	79.4	119.2#
121	0.0	24.0	36.0#





#44

Trichloroethene

Concen: 5.777 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX007060.D

Acq: 15 Jan 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

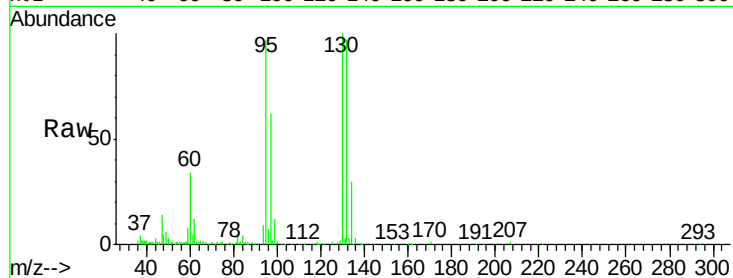
KY038PS027-190114

Tot Ion:130 Resp: 38377

Ion Ratio Lower Upper

130 100

95 97.1 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

20000

15000

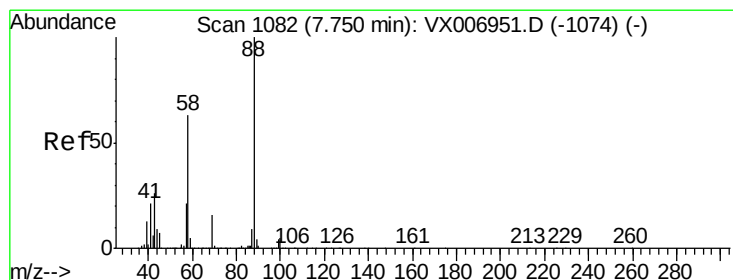
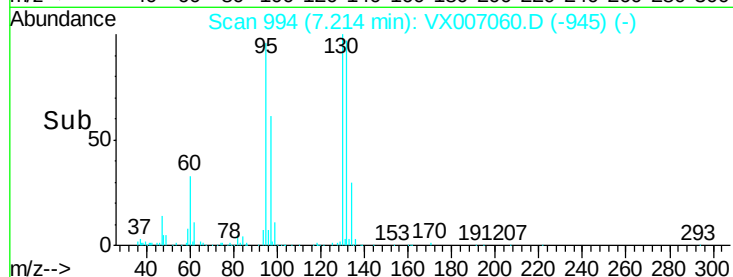
10000

5000

0

7.10 7.20 7.30

Time-->



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX007060.D

Acq: 15 Jan 2019 16:00

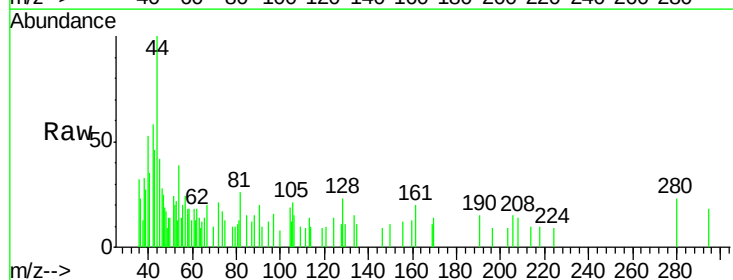
Tgt Ion: 88 Resp: 108

Ion Ratio Lower Upper

88 100

43 564.8 22.2 33.4#

58 362.0 51.0 76.4#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

400

300

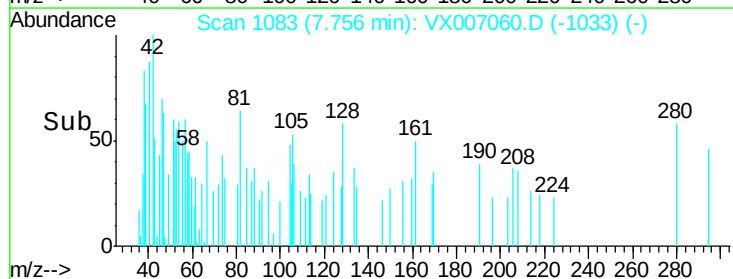
200

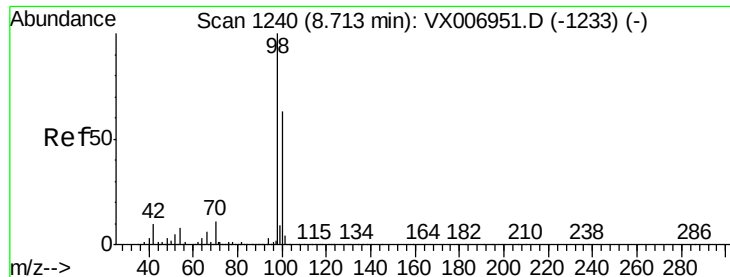
100

0

7.74 7.76

Time-->





#50

Toluene-d8

Concen: 51.092 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007060.D

Acq: 15 Jan 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

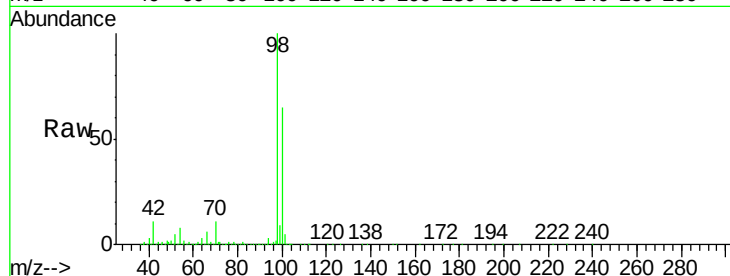
KY038PS027-190114

Tot Ion: 98 Resp: 1000860

Ion Ratio Lower Upper

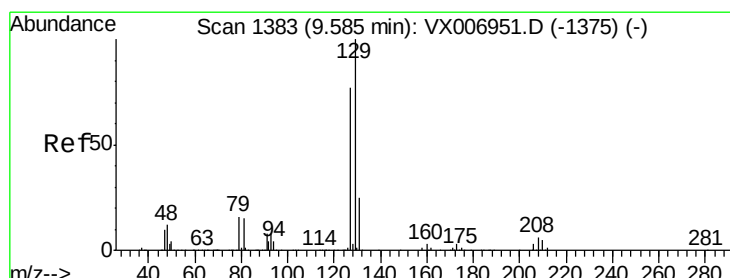
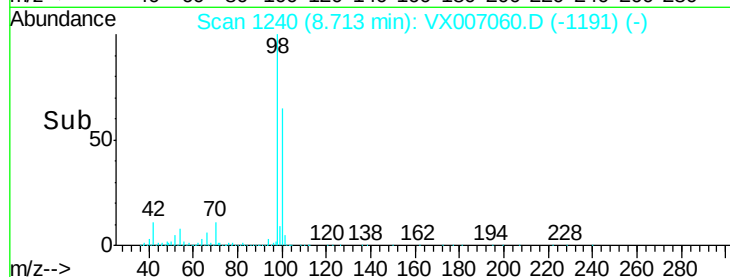
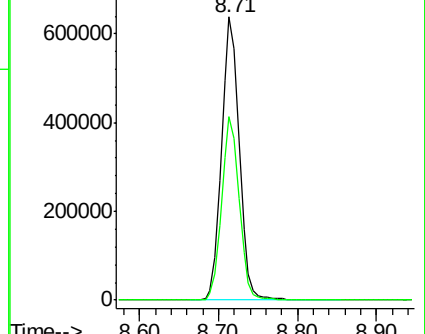
98 100

100 64.5 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#60

Dibromochloromethane

Concen: 7.470 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.25 min

Lab File: VX007060.D

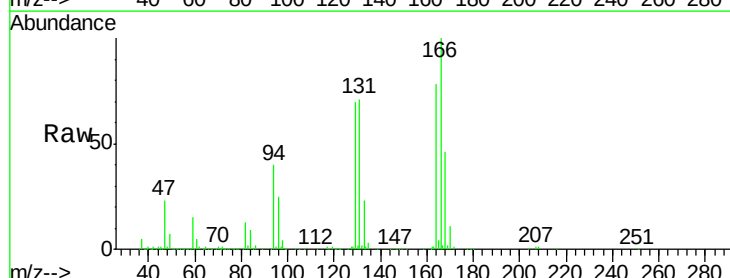
Acq: 15 Jan 2019 16:00

Tgt Ion: 129 Resp: 41372

Ion Ratio Lower Upper

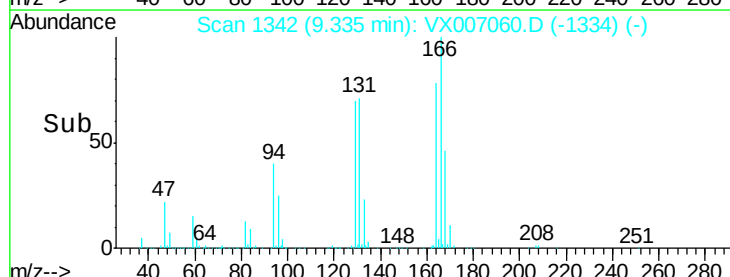
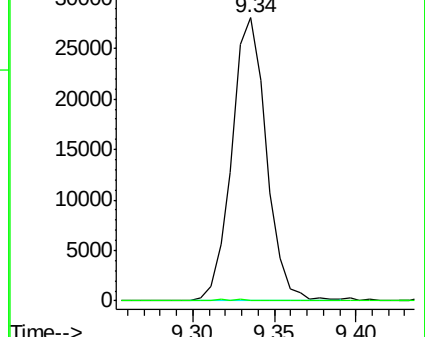
129 100

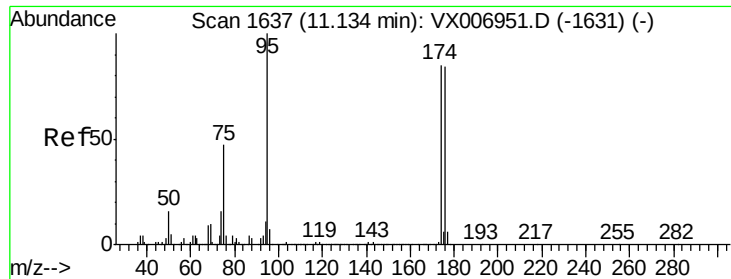
127 0.4 39.3 117.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

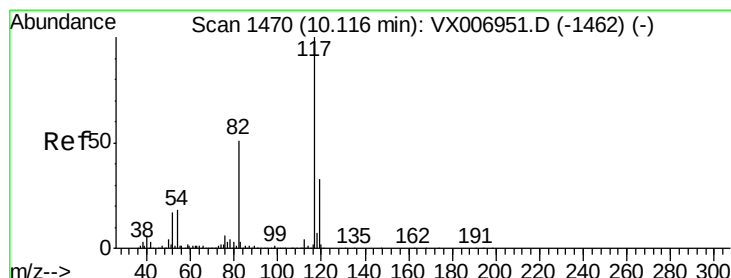
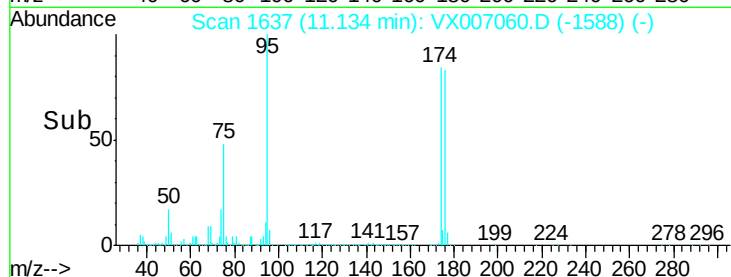
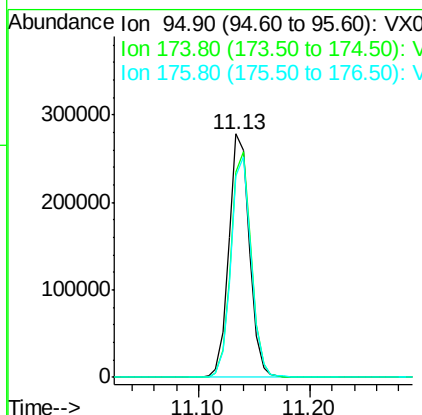
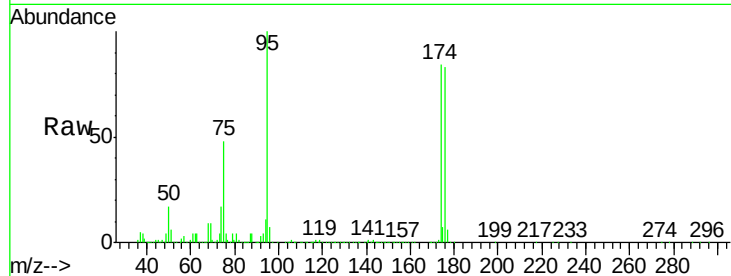




#62
4-Bromofluorobenzene
Concen: 51.961 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX007060.D
Acq: 15 Jan 2019 16:00

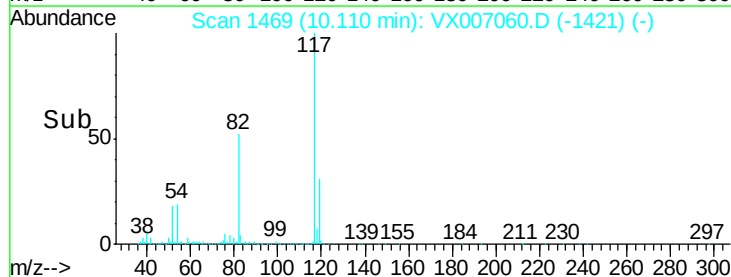
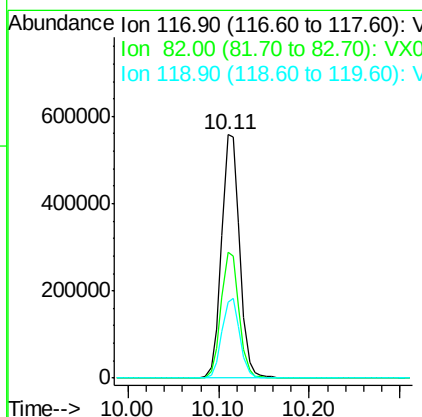
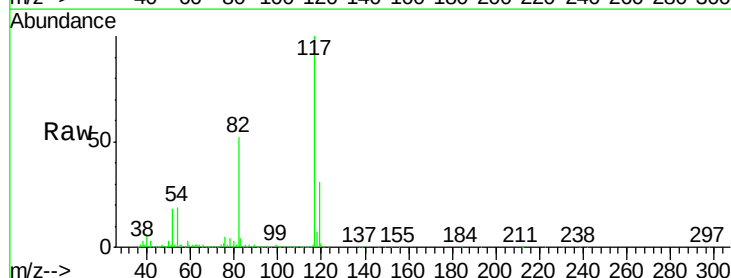
Instrument :
MSVOA_X
ClientSampleId :
KY038PS027-190114

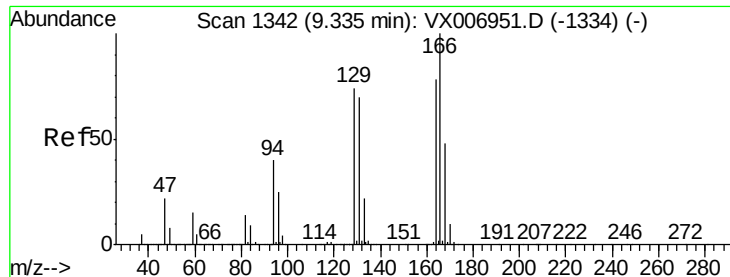
Tot Ion: 95 Resp: 354864
Ion Ratio Lower Upper
95 100
174 91.9 0.0 182.2
176 89.3 0.0 178.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.01 min
Lab File: VX007060.D
Acq: 15 Jan 2019 16:00

Tgt Ion: 117 Resp: 785725
Ion Ratio Lower Upper
117 100
82 51.8 41.0 61.6
119 31.0 25.4 38.0





#64

Tetrachloroethene

Concen: 6.730 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX007060.D

Acq: 15 Jan 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-190114

Tot Ion:164 Resp: 45782

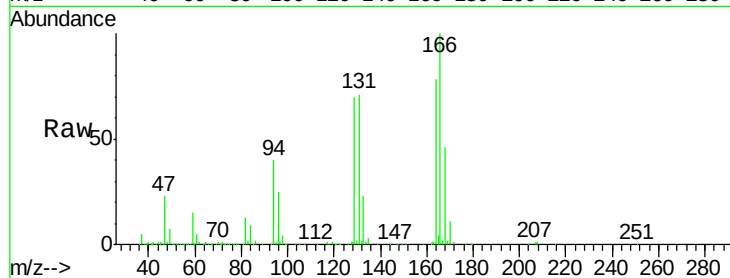
Ion Ratio Lower Upper

164 100

166 128.9 102.5 153.7

129 90.2 75.1 112.7

131 90.9 72.7 109.1

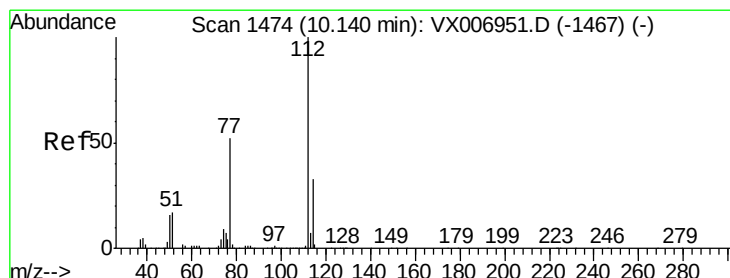
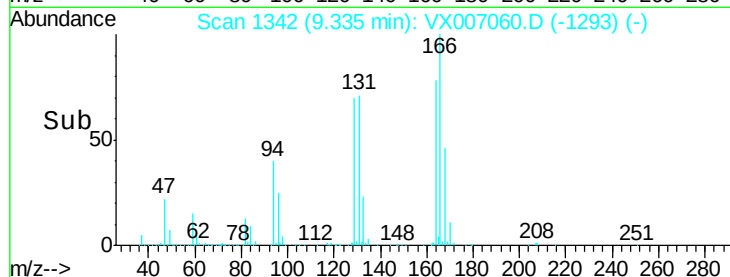
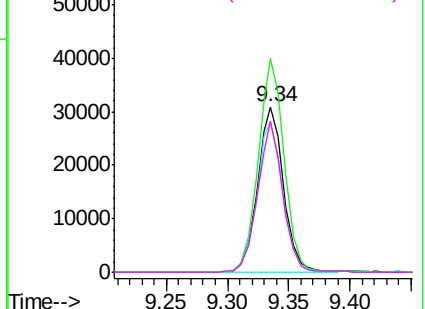


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 0.432 ug/l

RT: 10.14 min Scan# 1474

Delta R.T. 0.00 min

Lab File: VX007060.D

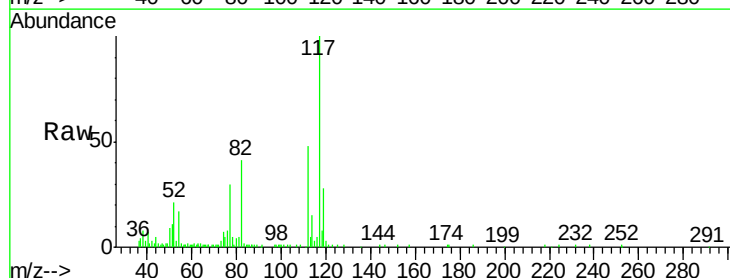
Acq: 15 Jan 2019 16:00

Tgt Ion:112 Resp: 7399

Ion Ratio Lower Upper

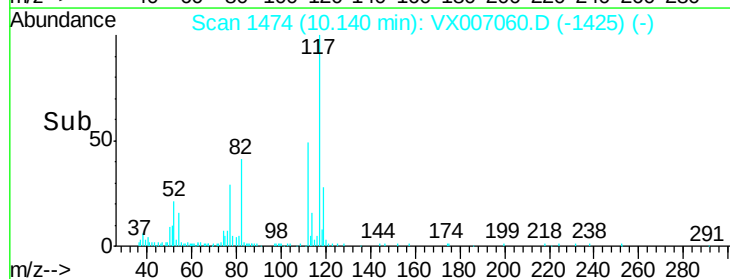
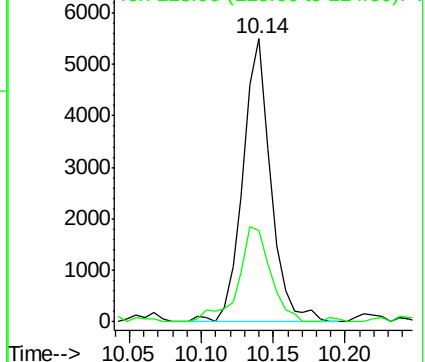
112 100

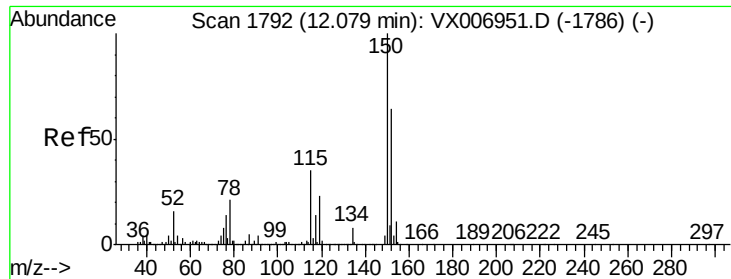
114 32.2 25.7 38.5



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

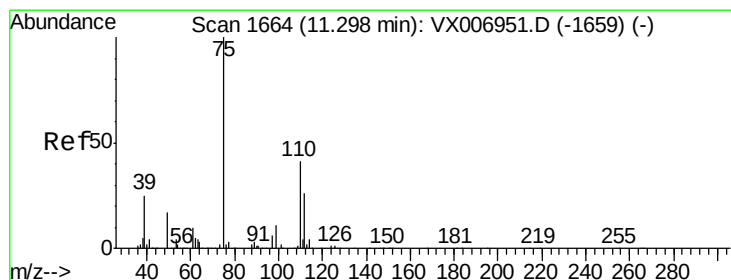
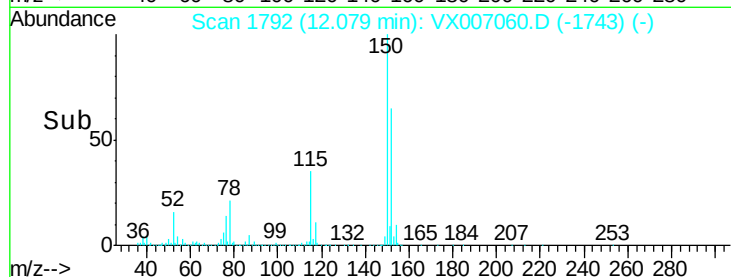
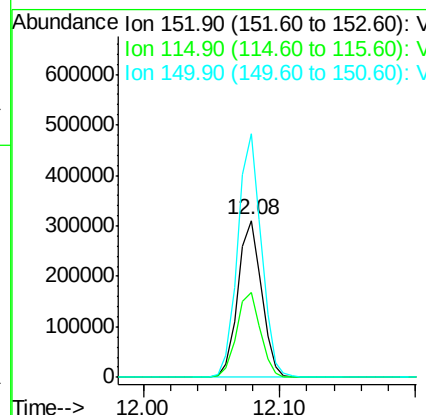
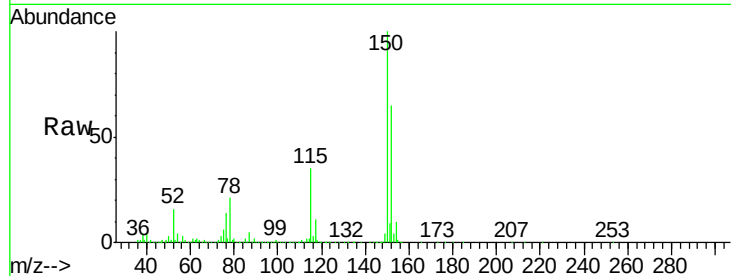




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.08 min Scan# 1792
 Delta R.T. 0.00 min
 Lab File: VX007060.D
 Acq: 15 Jan 2019 16:00

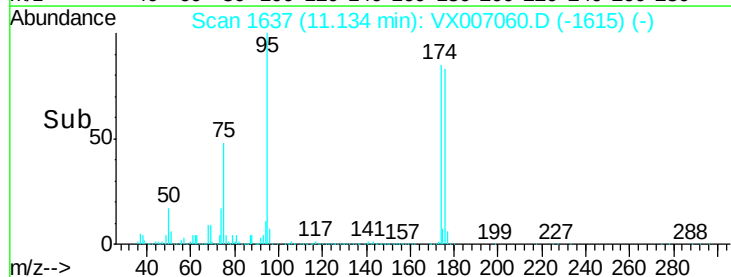
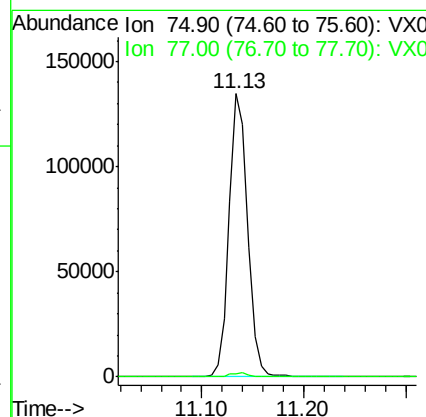
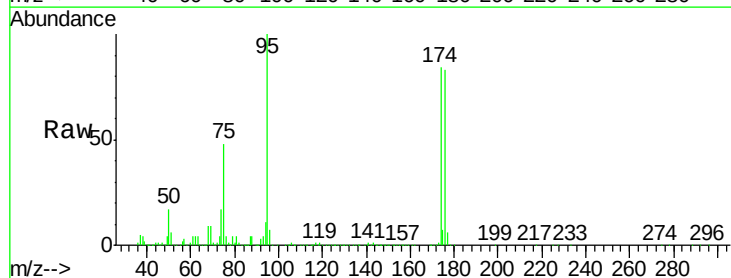
Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS027-190114

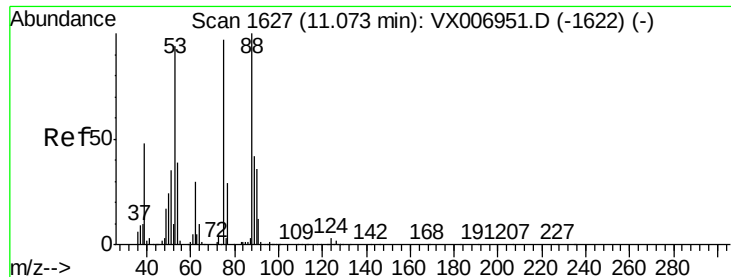
Tot Ion	Ratio	Lower	Upper
152	100		
115	54.5	39.1	117.2
150	154.1	0.0	344.8



#76
 1,2,3-Trichloropropane
 Concen: 22.094 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX007060.D
 Acq: 15 Jan 2019 16:00

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.7	18.5	55.5#





#81

trans-1,4-Dichloro-2-butene

Concen: 65.415 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007060.D

Acq: 15 Jan 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-190114

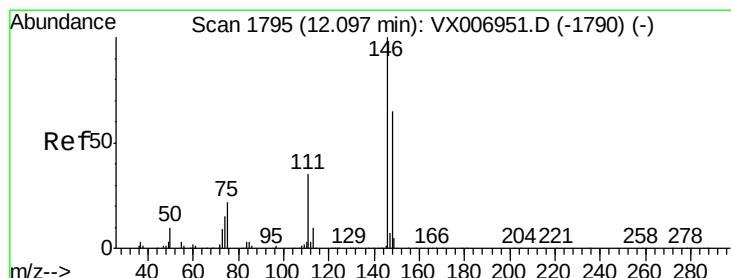
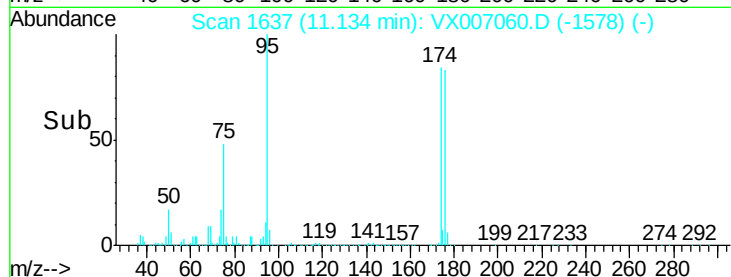
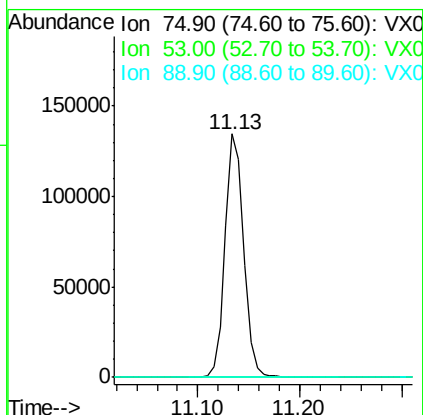
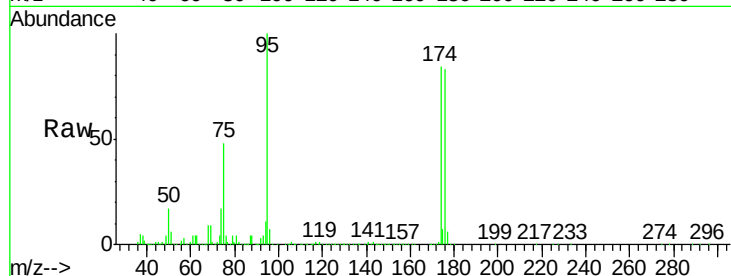
Tot Ion: 75 Resp: 169296

Ion Ratio Lower Upper

75 100

53 0.0 79.7 119.5#

89 0.2 38.0 57.0#



#88

1,4-Dichlorobenzene

Concen: 0.277 ug/l

RT: 12.09 min Scan# 1794

Delta R.T. -0.01 min

Lab File: VX007060.D

Acq: 15 Jan 2019 16:00

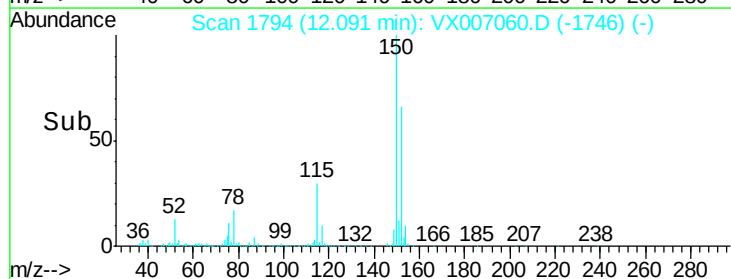
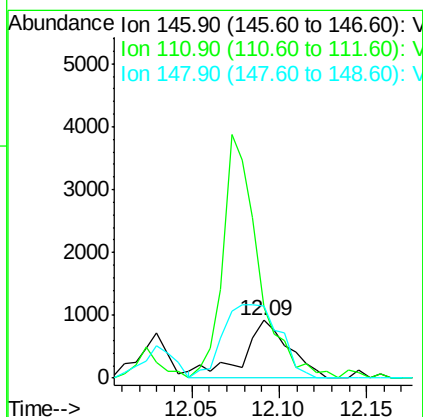
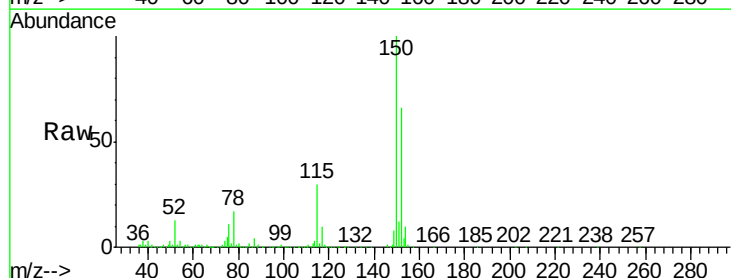
Tgt Ion: 146 Resp: 1668

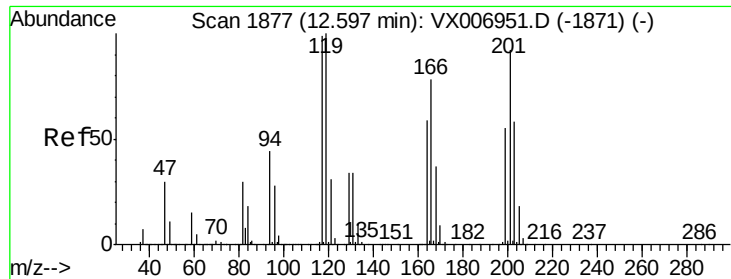
Ion Ratio Lower Upper

146 100

111 328.2 18.1 54.1#

148 157.9 31.9 95.9#





#90

Hexachloroethane

Concen: 2.940 ug/l

RT: 12.74 min Scan# 1901

Delta R.T. 0.15 min

Lab File: VX007060.D

Acq: 15 Jan 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

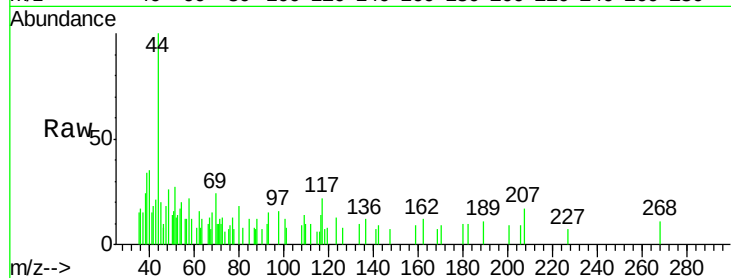
KY038PS027-190114

Tot Ion:117 Resp: 128

Ion Ratio Lower Upper

117 100

201 86.7 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

