

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061719\
 Data File : VX010323.D
 Acq On : 17 Jun 2019 14:45
 Operator : JC/SP
 Sample : K3154-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 18 01:53:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 02:12:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	316956	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	478683	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	433768	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	201182	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	143268	46.31	ug/l	0.00
Spiked Amount			Recovery	=	92.62%	
35) Dibromofluoromethane	5.50	113	147184	49.85	ug/l	0.00
Spiked Amount			Recovery	=	99.70%	
50) Toluene-d8	8.71	98	568815	51.40	ug/l	0.00
Spiked Amount			Recovery	=	102.80%	
62) 4-Bromofluorobenzene	11.13	95	189638	45.89	ug/l	0.00
Spiked Amount			Recovery	=	91.78%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	760	0.740	ug/l	96
6) Chloroethane	1.67	64	398	0.290	ug/l #	80
11) Tert butyl alcohol	3.04	59	2055	2.711	ug/l #	82
13) Acrolein	2.30	56	189	1.368	ug/l	97
16) Acetone	2.45	43	30141	20.713	ug/l #	87
18) Methyl Acetate	2.78	43	2270	0.709	ug/l #	62
20) Methylene Chloride	2.85	84	3880	1.214	ug/l #	72
25) 2-Butanone	4.68	43	8440	3.895	ug/l #	77
29) Tetrahydrofuran	5.15	42	1931	1.418	ug/l #	87
30) Chloroform	5.22	83	2520	0.486	ug/l	85
36) 1,1-Dichloropropene	5.66	75	19074	4.884	ug/l #	52
37) Ethyl Acetate	4.68	43	8541	2.102	ug/l #	71
38) Carbon Tetrachloride	5.67	117	26539	6.004	ug/l #	15
43) Isopropyl Acetate	6.45	43	11360	1.672	ug/l #	90
48) Methyl methacrylate	7.68	41	5166	1.626	ug/l #	20
49) 1,4-Dioxane	7.76	88	20	0.221	ug/l #	18
51) 4-Methyl-2-Pentanone	8.61	43	81321	20.036	ug/l #	54
54) cis-1,3-Dichloropropene	8.61	75	45120	8.599	ug/l #	54
57) 1,3-Dichloropropane	9.54	76	7556	1.476	ug/l #	47
59) 2-Hexanone	9.50	43	2838	0.877	ug/l	90
74) N-amyl acetate	10.83	43	1284	0.231	ug/l #	55
76) 1,2,3-Trichloropropane	11.13	75	86823	21.576	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	86823	47.671	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX010323.D

Acq: 17 Jun 2019 14:45

Instrument :

MSVOA_X

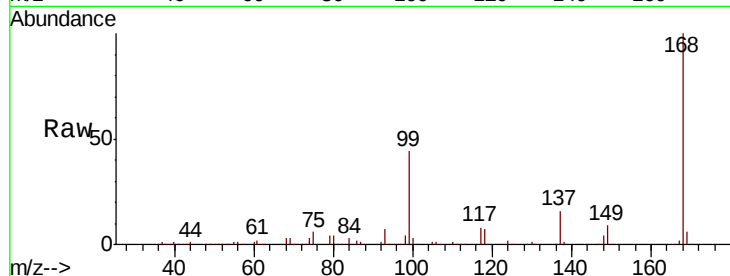
ClientSampleId :

Tot Ion:168 Resp: 316956

Ion Ratio Lower Upper

168 100

99 43.6 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

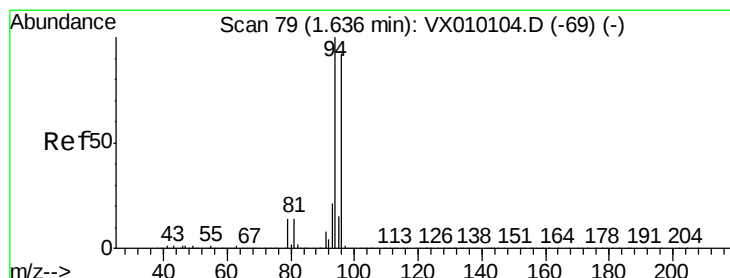
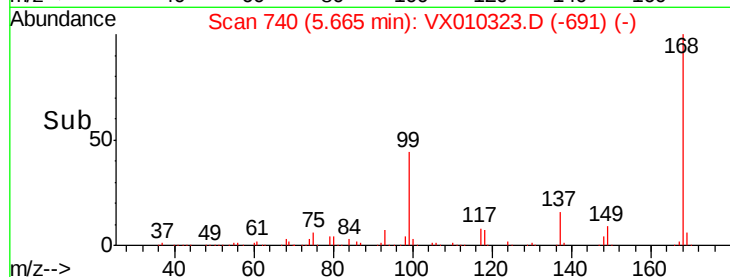
5.67

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.740 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010323.D

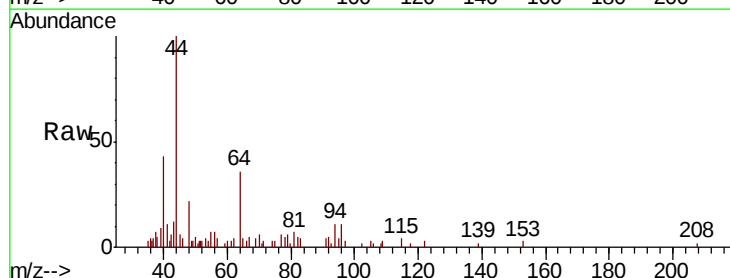
Acq: 17 Jun 2019 14:45

Tgt Ion: 94 Resp: 760

Ion Ratio Lower Upper

94 100

96 98.8 76.2 114.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

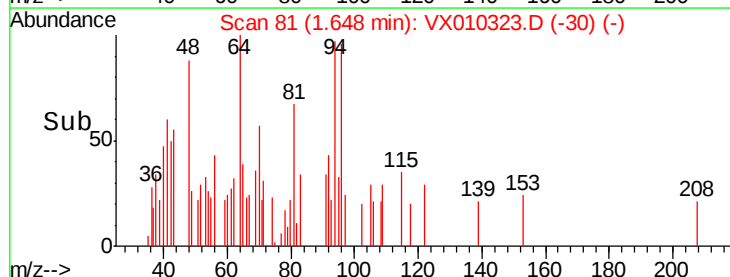
150

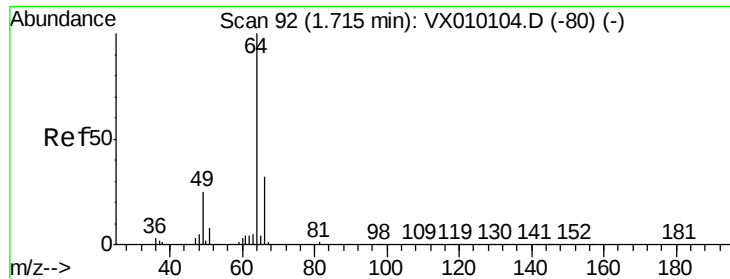
100

50

0

Time--> 1.60 1.65 1.70 1.75





#6

Chloroethane

Concen: 0.290 ug/l

RT: 1.67 min Scan# 84

Delta R.T. -0.05 min

Lab File: VX010323.D

Acq: 17 Jun 2019 14:45

Instrument :

MSVOA_X

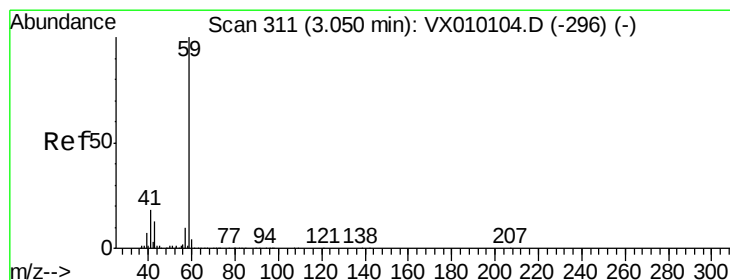
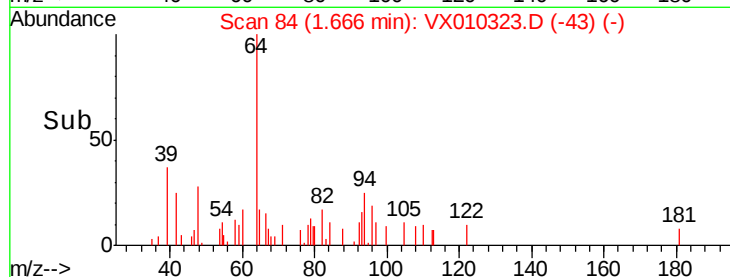
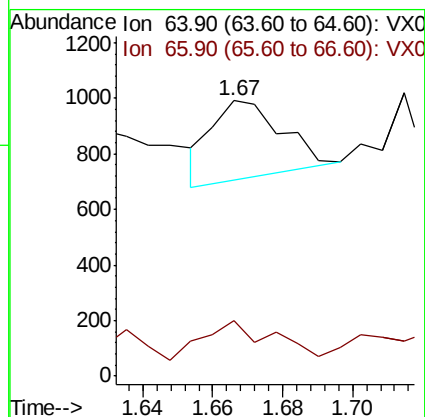
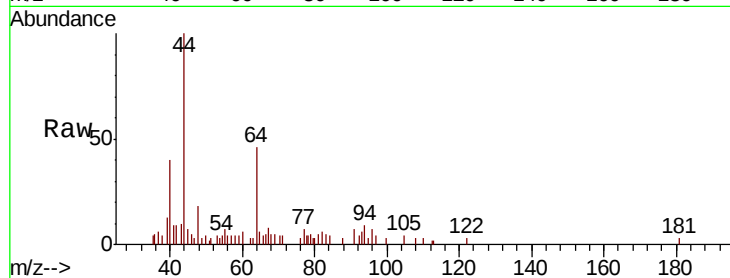
ClientSampleId :

Tot Ion: 64 Resp: 398

Ion Ratio Lower Upper

64 100

66 42.3 25.1 37.7#



#11

Tert butyl alcohol

Concen: 2.711 ug/l

RT: 3.04 min Scan# 309

Delta R.T. -0.01 min

Lab File: VX010323.D

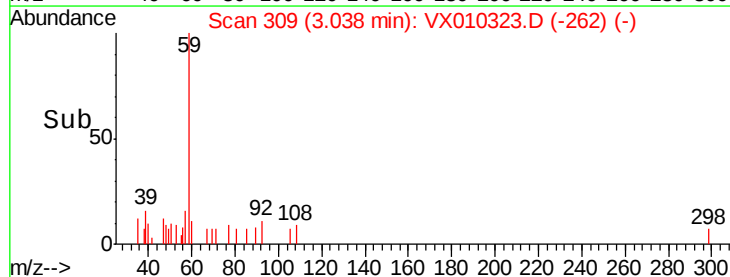
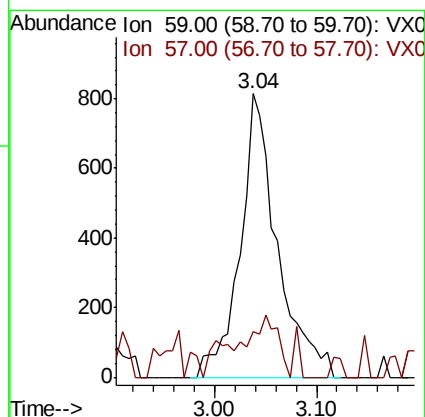
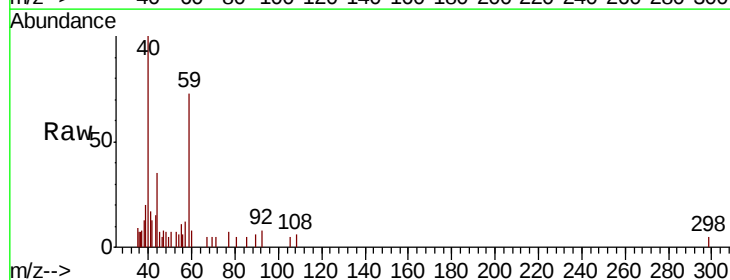
Acq: 17 Jun 2019 14:45

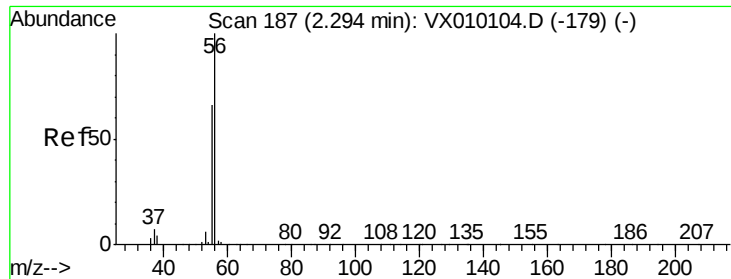
Tgt Ion: 59 Resp: 2055

Ion Ratio Lower Upper

59 100

57 17.1 8.2 12.2#





#13

Acrolein

Concen: 1.368 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX010323.D

Acq: 17 Jun 2019 14:45

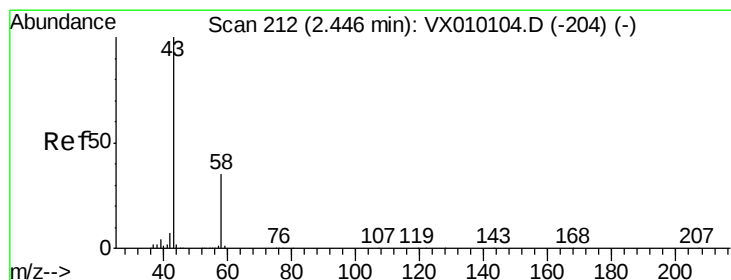
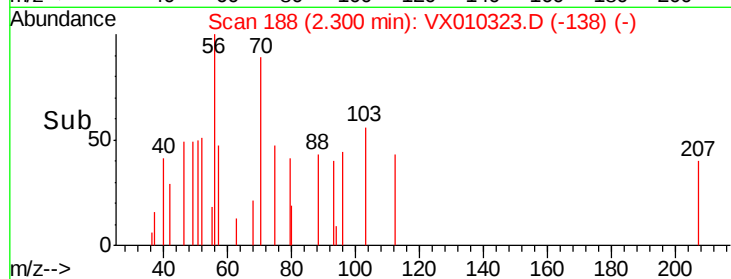
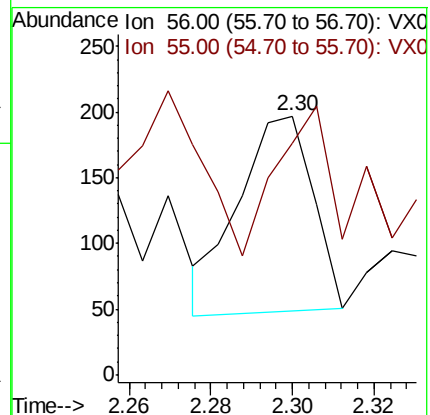
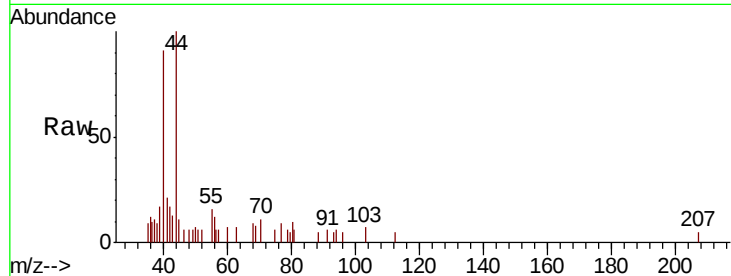
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 189

Ion Ratio Lower Upper

56 100

55 68.8 57.0 85.4



#16

Acetone

Concen: 20.713 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX010323.D

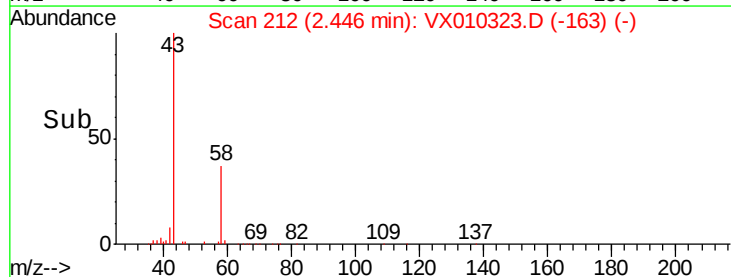
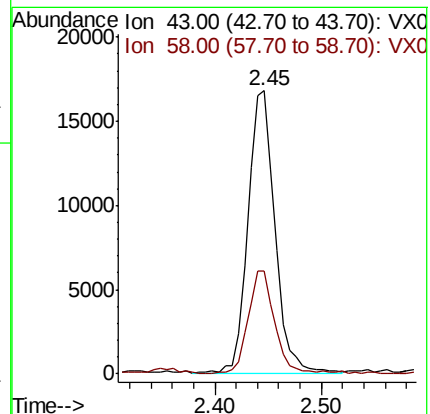
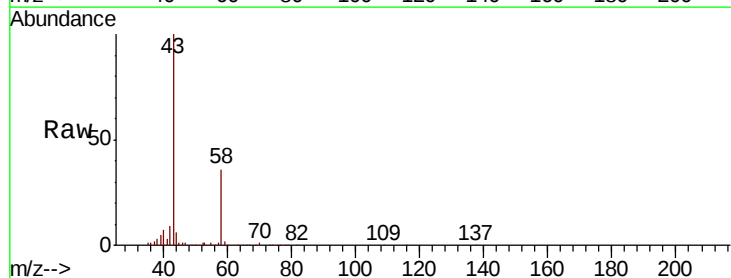
Acq: 17 Jun 2019 14:45

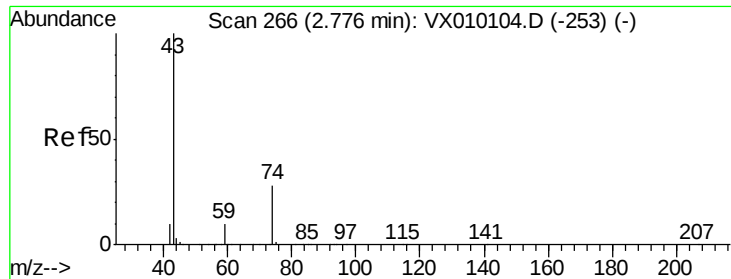
Tgt Ion: 43 Resp: 30141

Ion Ratio Lower Upper

43 100

58 35.7 23.2 34.8#

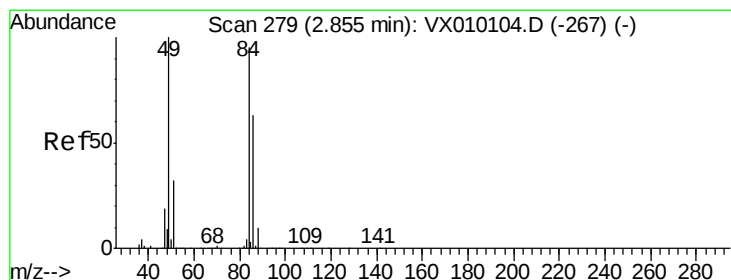
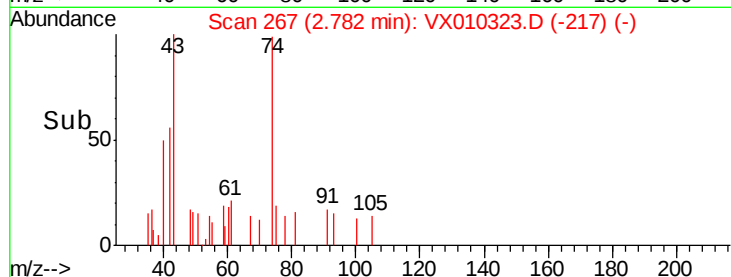
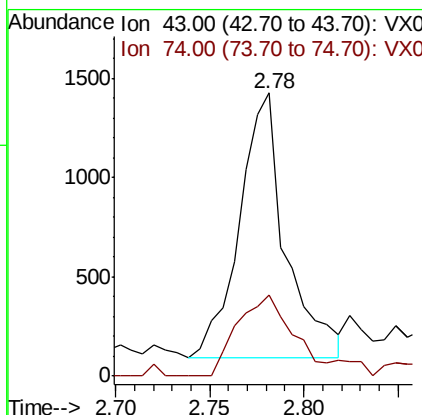
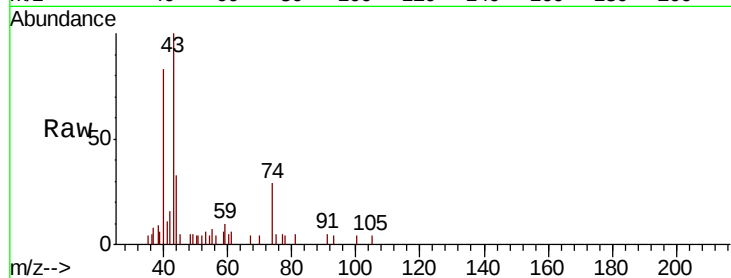




#18
Methyl Acetate
Concen: 0.709 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX010323.D
Acq: 17 Jun 2019 14:45

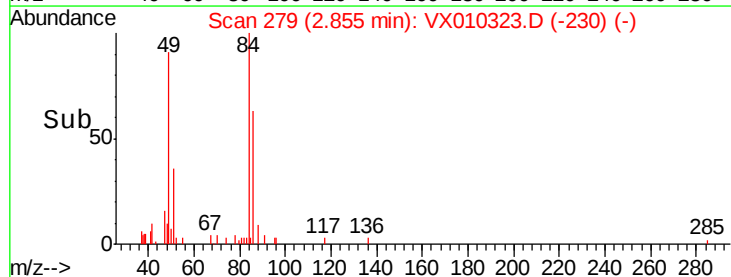
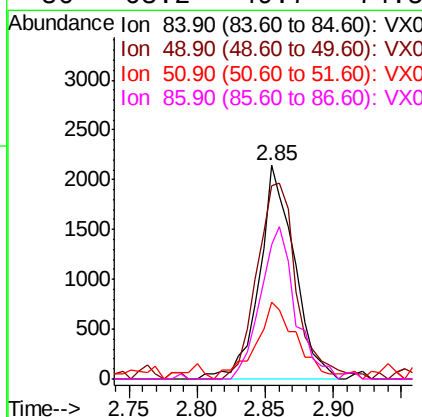
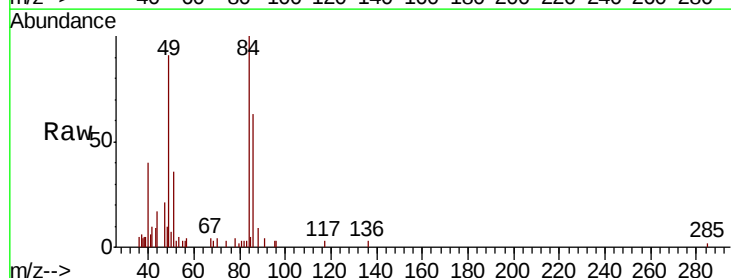
Instrument :
MSVOA_X
ClientSampleId :

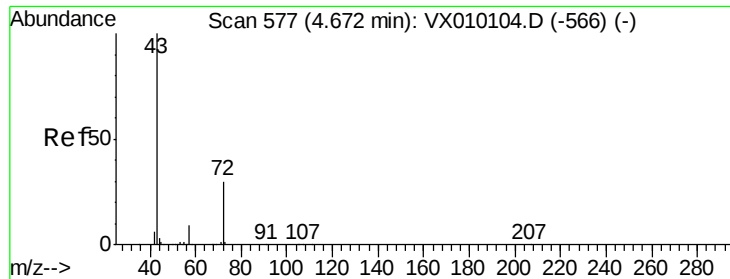
Tot Ion: 43 Resp: 2270
Ion Ratio Lower Upper
43 100
74 36.9 15.8 23.6#



#20
Methylene Chloride
Concen: 1.214 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX010323.D
Acq: 17 Jun 2019 14:45

Tgt Ion: 84 Resp: 3880
Ion Ratio Lower Upper
84 100
49 90.6 115.8 173.6#
51 33.3 34.4 51.6#
86 63.2 49.7 74.5





#25

2-Butanone

Concen: 3.895 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX010323.D

Acq: 17 Jun 2019 14:45

Instrument :

MSVOA_X

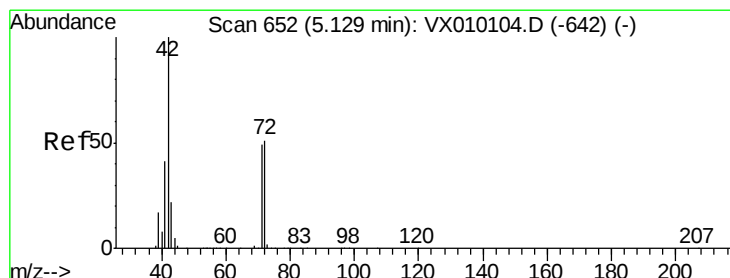
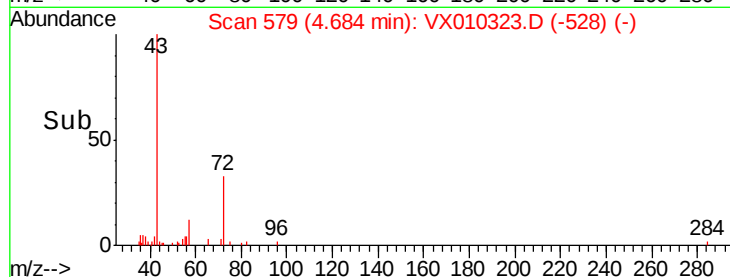
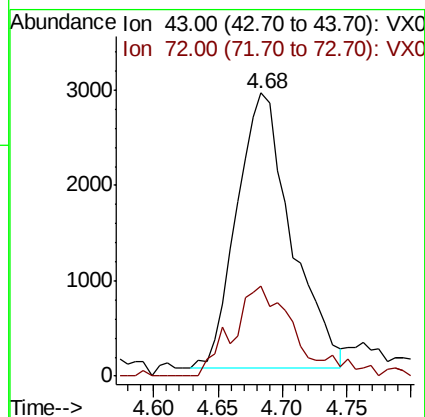
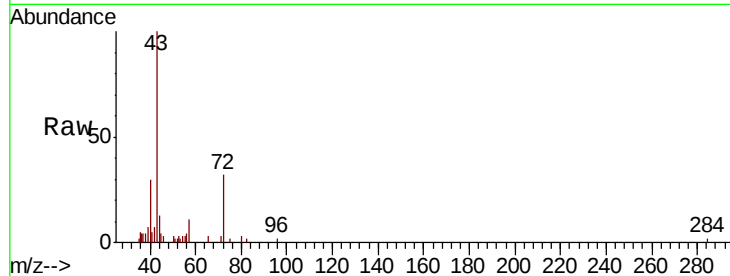
ClientSampleId :

Tot Ion: 43 Resp: 8440

Ion Ratio Lower Upper

43 100

72 32.8 17.5 26.3#



#29

Tetrahydrofuran

Concen: 1.418 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.02 min

Lab File: VX010323.D

Acq: 17 Jun 2019 14:45

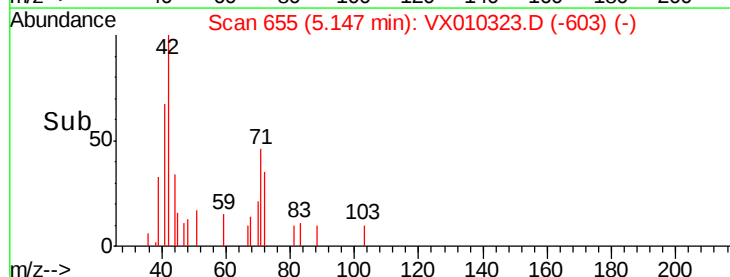
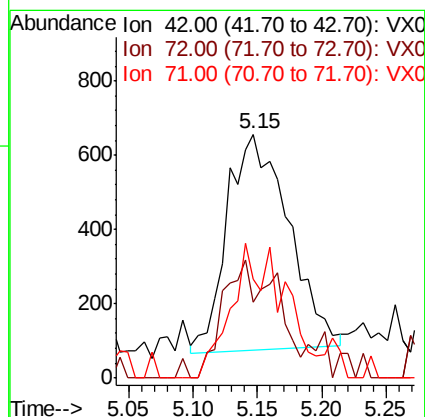
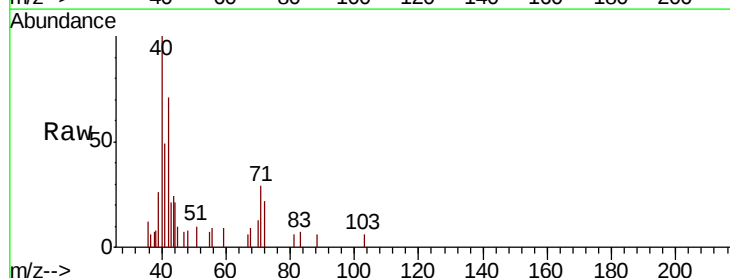
Tgt Ion: 42 Resp: 1931

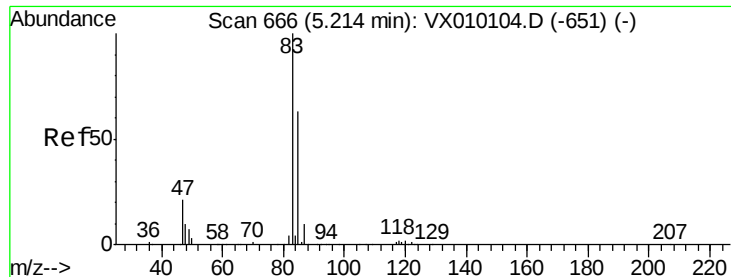
Ion Ratio Lower Upper

42 100

72 27.0 29.2 43.8#

71 29.2 27.6 41.4

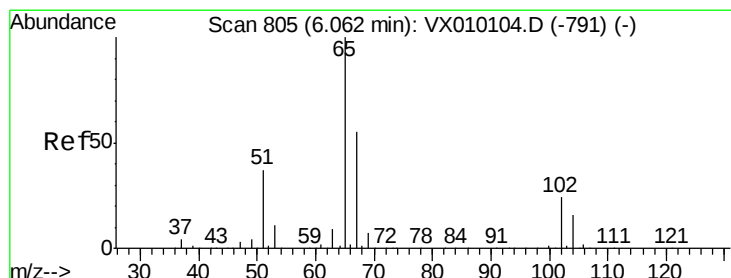
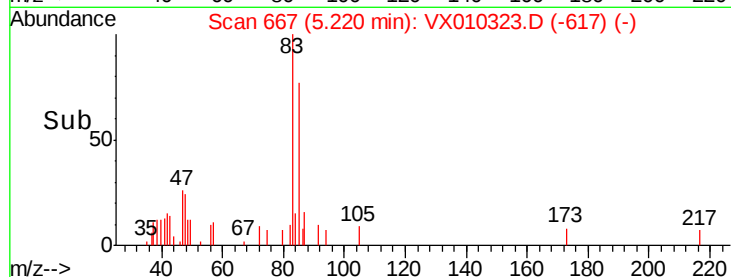
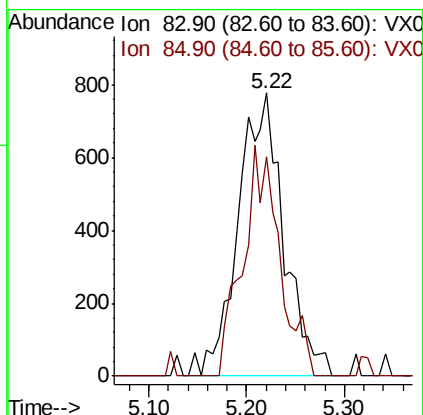
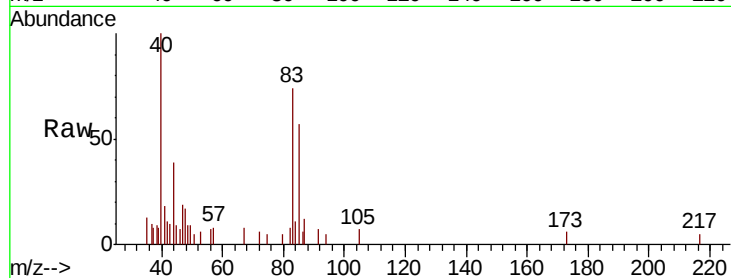




#30
Chloroform
Concen: 0.486 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX010323.D
Acq: 17 Jun 2019 14:45

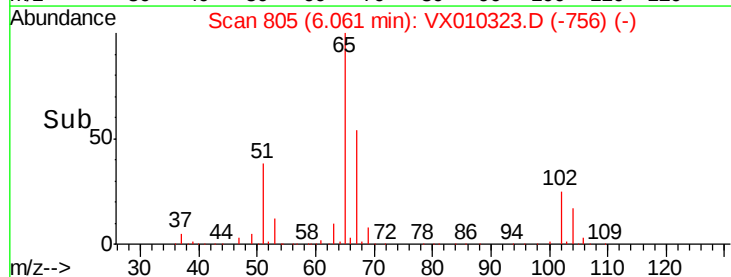
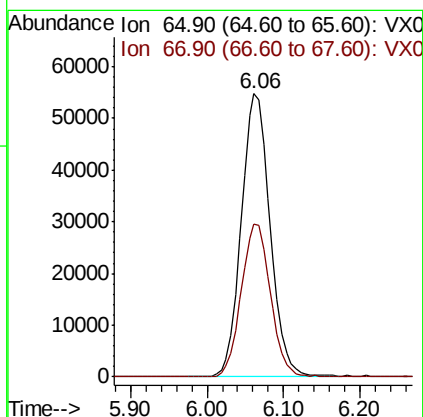
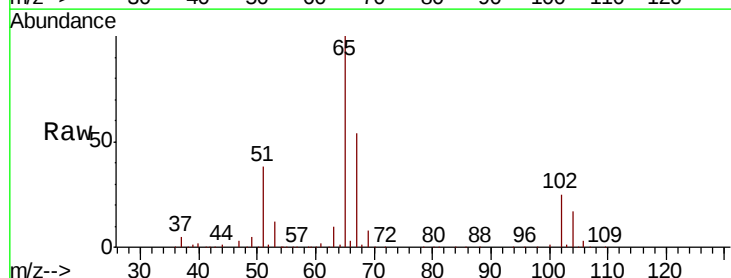
Instrument :
MSVOA_X
ClientSampleId :

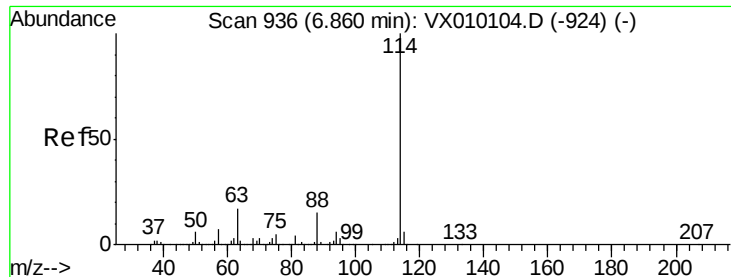
Tot Ion: 83 Resp: 2520
Ion Ratio Lower Upper
83 100
85 77.3 52.6 78.8



#33
1,2-Dichloroethane-d4
Concen: 46.307 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX010323.D
Acq: 17 Jun 2019 14:45

Tgt Ion: 65 Resp: 143268
Ion Ratio Lower Upper
65 100
67 54.9 0.0 108.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX010323.D

Acq: 17 Jun 2019 14:45

Instrument :

MSVOA_X

ClientSampleId :

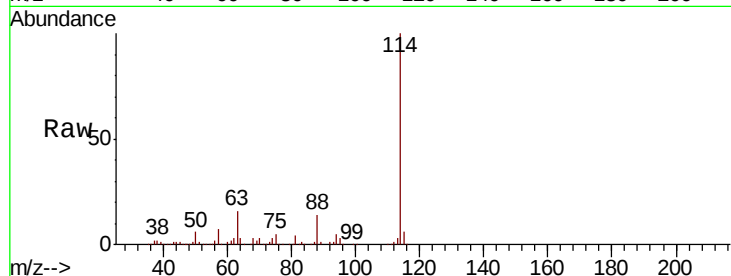
Tot Ion:114 Resp: 478683

Ion Ratio Lower Upper

114 100

63 16.4 0.0 47.4

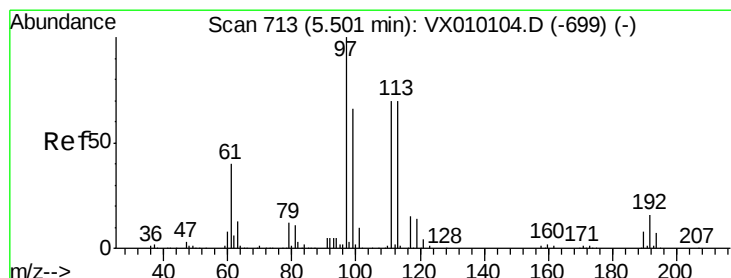
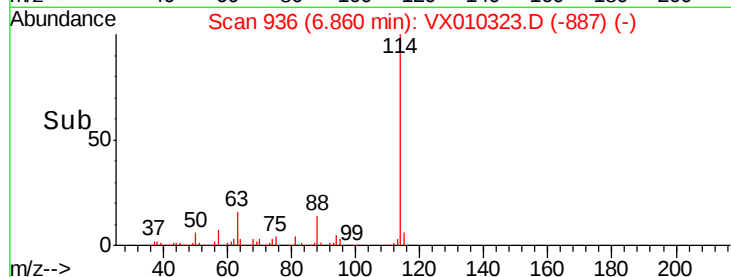
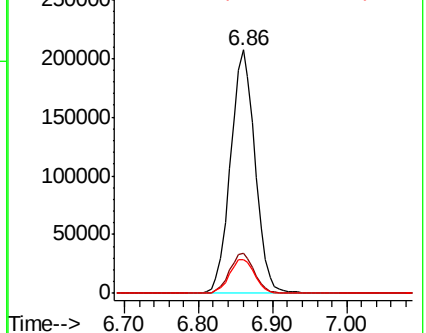
88 13.8 0.0 33.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.848 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010323.D

Acq: 17 Jun 2019 14:45

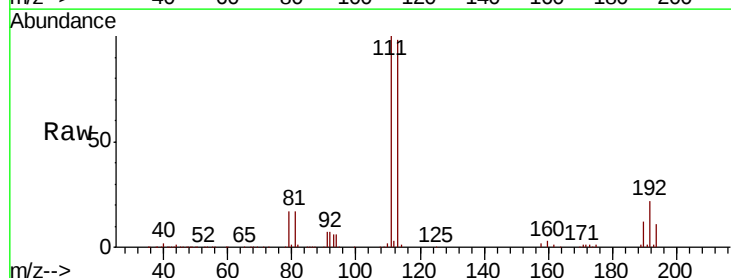
Tgt Ion:113 Resp: 147184

Ion Ratio Lower Upper

113 100

111 100.6 82.2 123.2

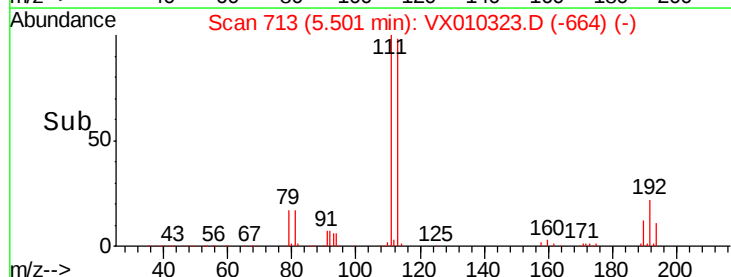
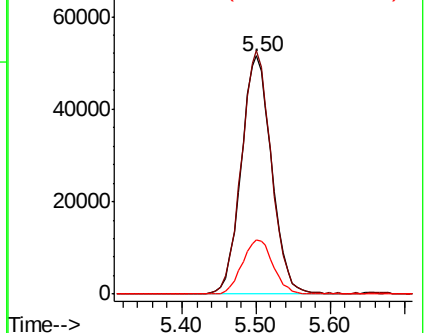
192 23.2 17.1 25.7

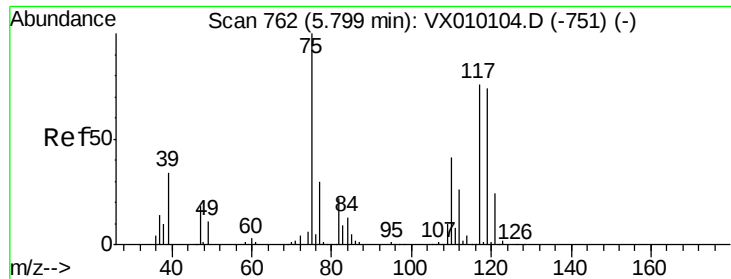


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

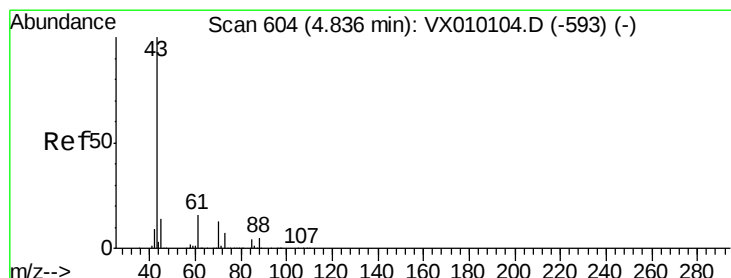
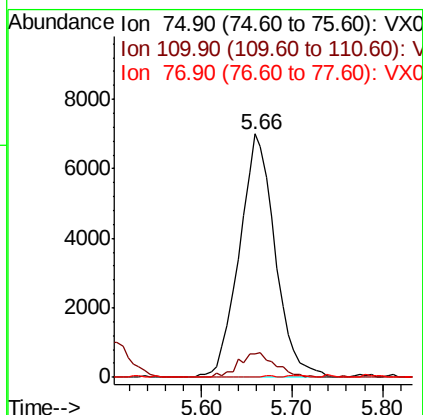
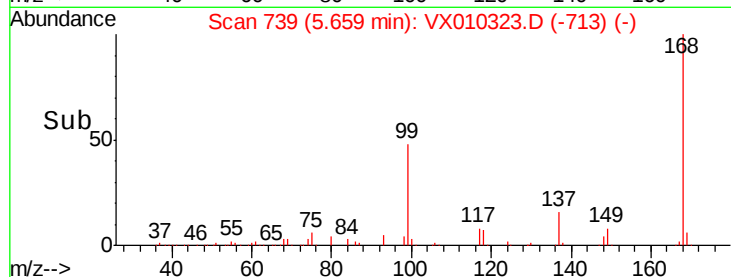
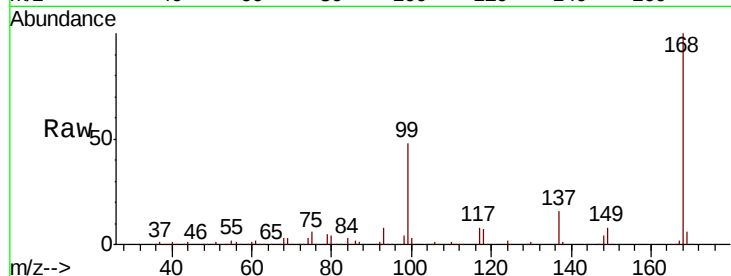




#36
 1,1-Dichloropropene
 Concen: 4.884 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010323.D
 Acq: 17 Jun 2019 14:45

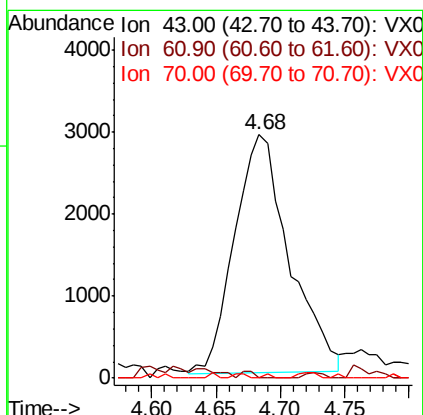
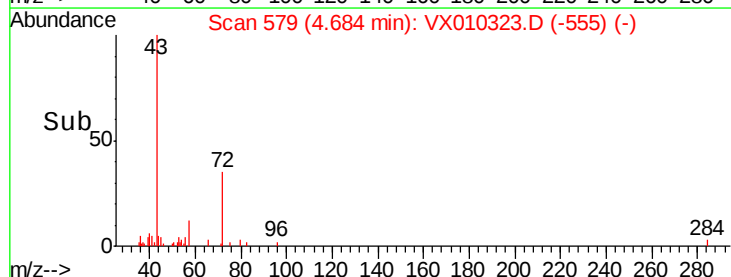
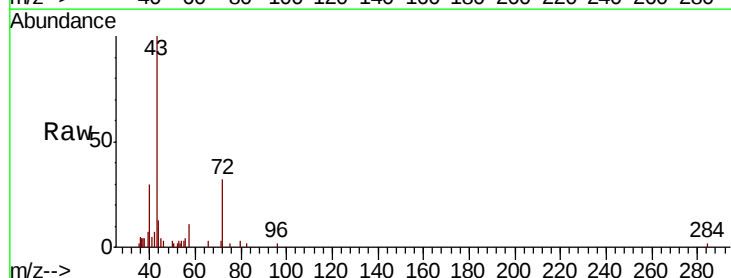
Instrument :
 MSVOA_X
 ClientSampleId :

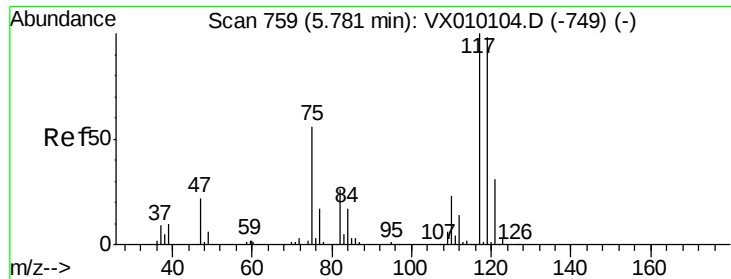
Tot Ion: 75 Resp: 19074
 Ion Ratio Lower Upper
 75 100
 110 10.3 16.7 50.1#
 77 0.2 25.0 37.4#



#37
 Ethyl Acetate
 Concen: 2.102 ug/l
 RT: 4.68 min Scan# 579
 Delta R.T. -0.15 min
 Lab File: VX010323.D
 Acq: 17 Jun 2019 14:45

Tgt Ion: 43 Resp: 8541
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.2 15.2#
 70 0.2 7.4 11.2#

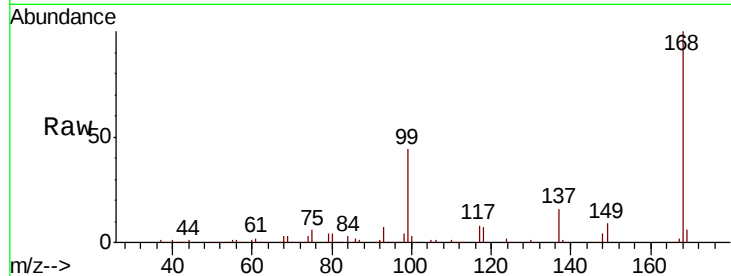




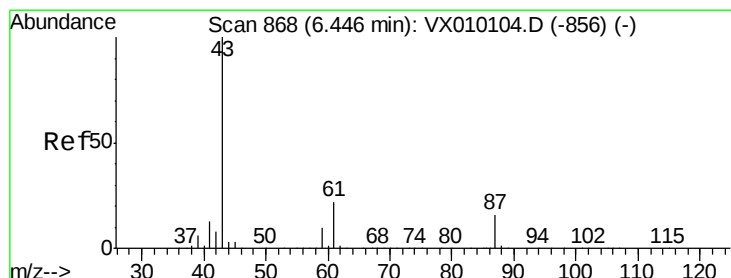
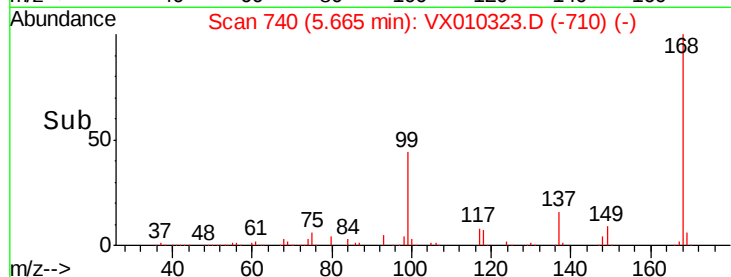
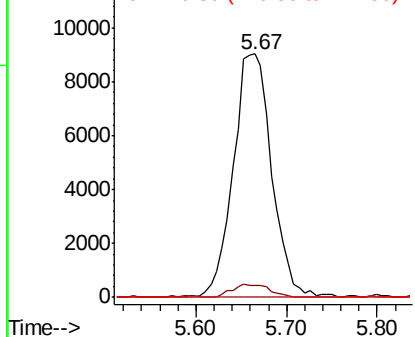
#38
Carbon Tetrachloride
Concen: 6.004 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX010323.D
Acq: 17 Jun 2019 14:45

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 26539
Ion Ratio Lower Upper
117 100
119 4.8 77.3 115.9#
121 0.0 25.4 38.0#

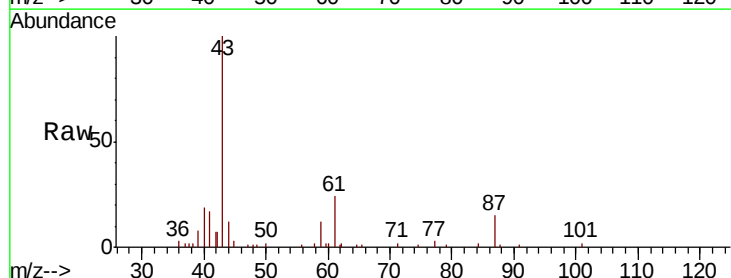


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

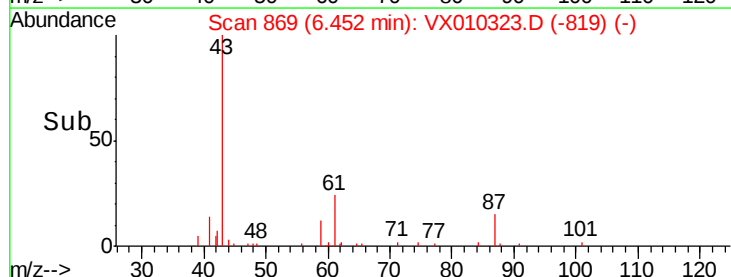
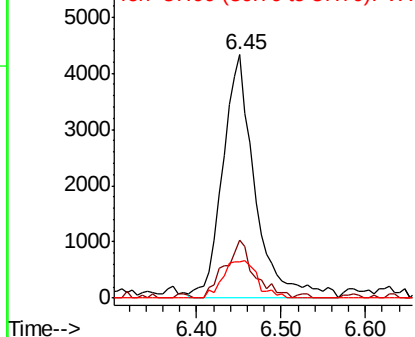


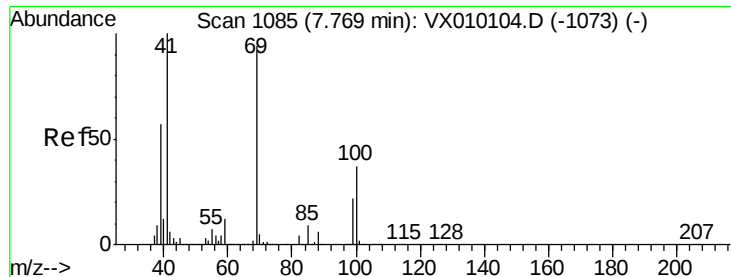
#43
Isopropyl Acetate
Concen: 1.672 ug/l
RT: 6.45 min Scan# 869
Delta R.T. 0.01 min
Lab File: VX010323.D
Acq: 17 Jun 2019 14:45

Tgt Ion: 43 Resp: 11360
Ion Ratio Lower Upper
43 100
61 21.8 14.6 21.8
87 16.3 8.7 13.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0

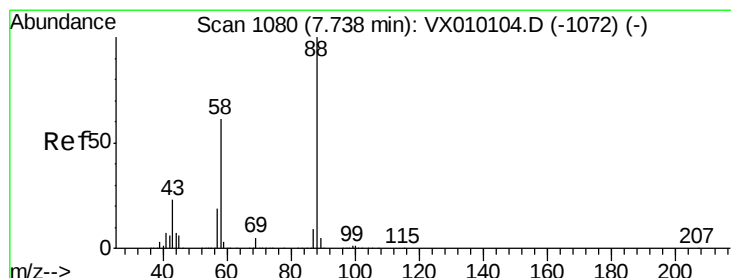
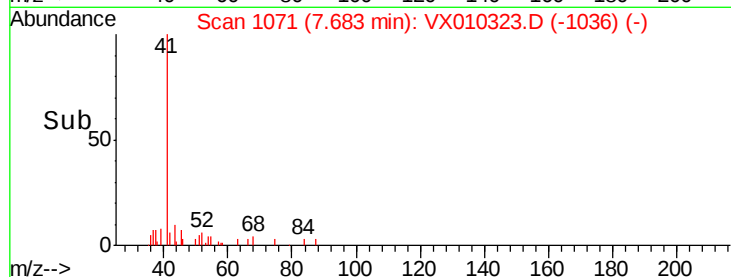
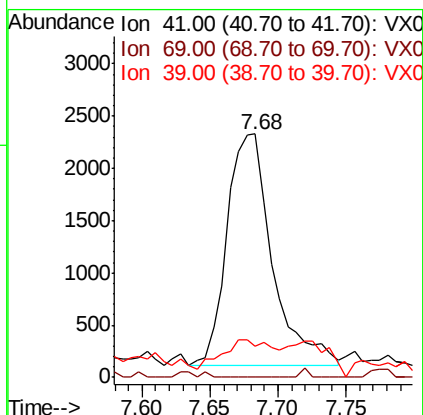
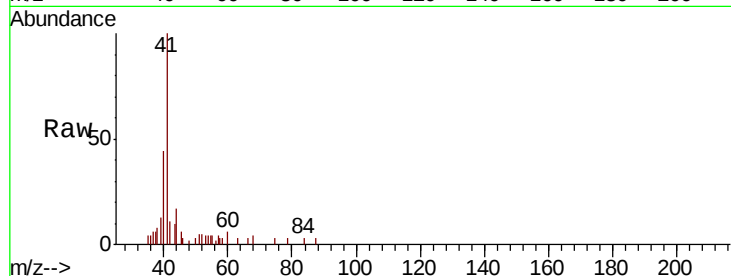




#48
Methvl methacrylate
Concen: 1.626 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX010323.D
Acq: 17 Jun 2019 14:45

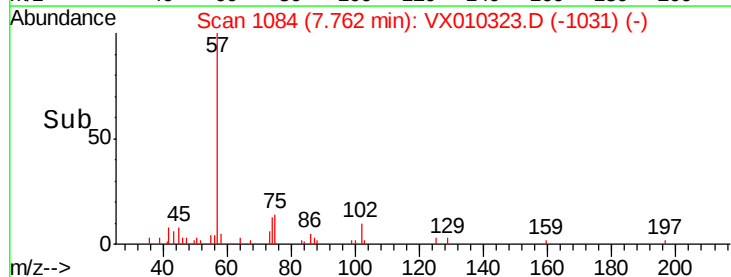
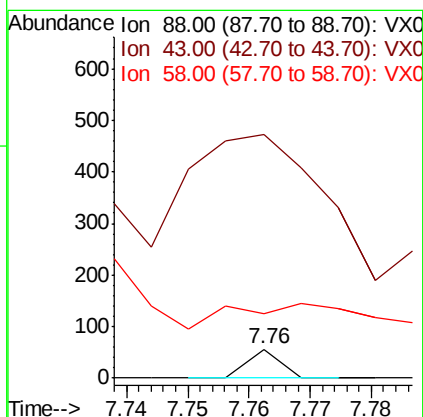
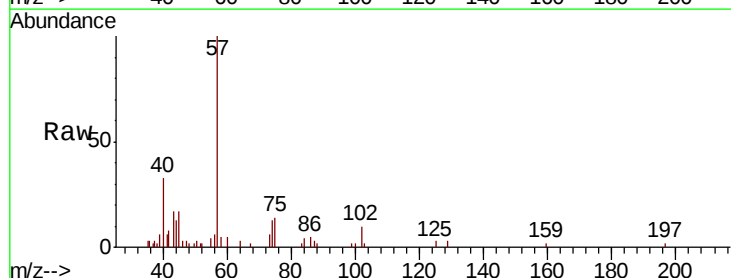
Instrument :
MSVOA_X
ClientSampleId :

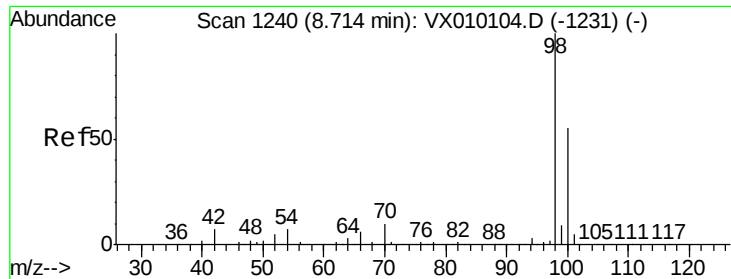
Tot Ion: 41 Resp: 5166
Ion Ratio Lower Upper
41 100
69 0.0 56.4 84.6#
39 0.0 40.6 60.8#



#49
1,4-Dioxane
Concen: 0.221 ug/l
RT: 7.76 min Scan# 1084
Delta R.T. 0.02 min
Lab File: VX010323.D
Acq: 17 Jun 2019 14:45

Tgt Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 0.0 30.2 45.4#
58 0.0 64.0 96.0#





#50

Toluene-d8

Concen: 51.402 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010323.D

Acq: 17 Jun 2019 14:45

Instrument :

MSVOA_X

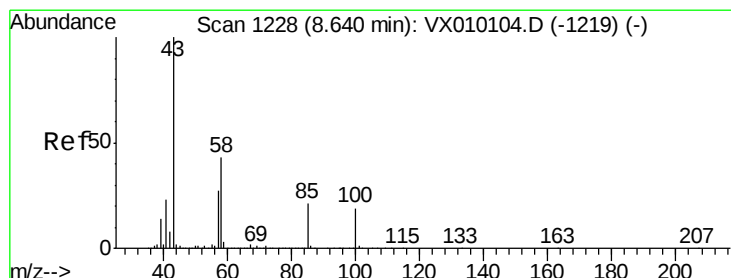
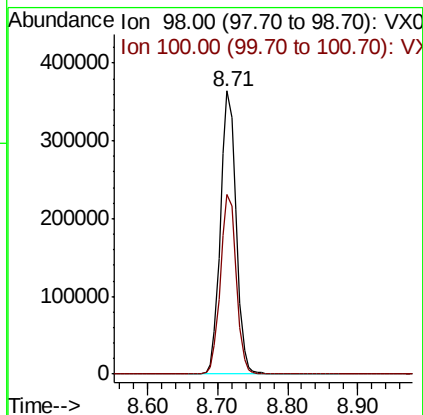
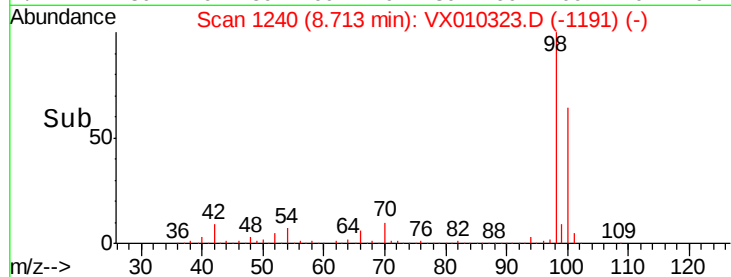
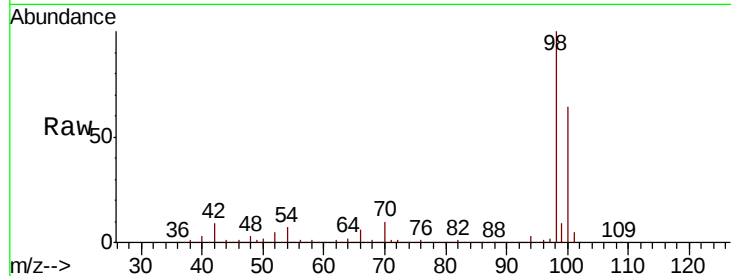
ClientSampleId :

Tot Ion: 98 Resp: 568815

Ion Ratio Lower Upper

98 100

100 64.1 51.5 77.3



#51

4-Methyl-2-Pentanone

Concen: 20.036 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX010323.D

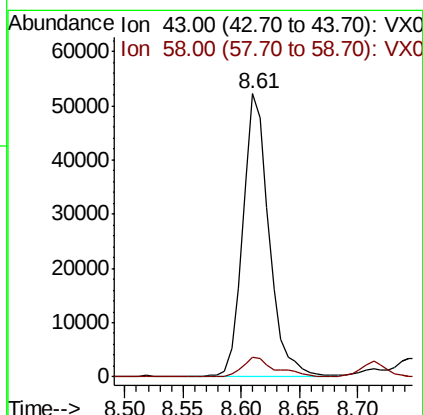
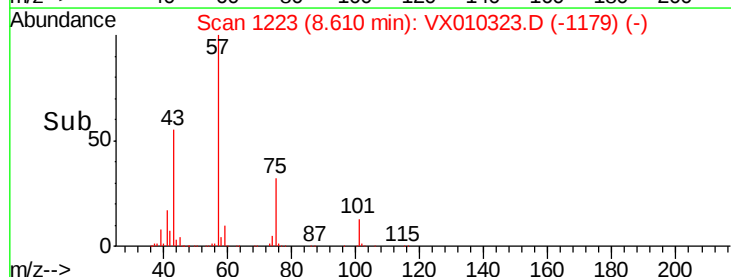
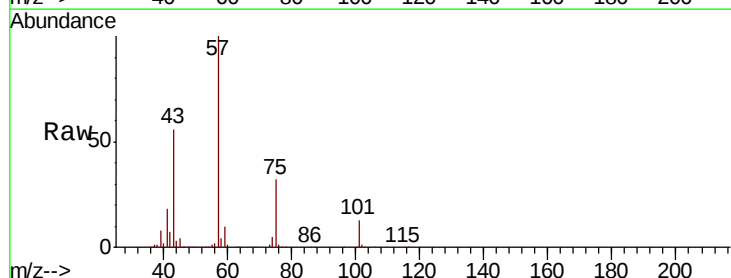
Acq: 17 Jun 2019 14:45

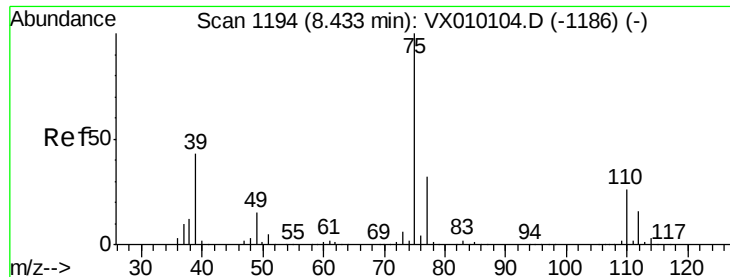
Tgt Ion: 43 Resp: 81321

Ion Ratio Lower Upper

43 100

58 9.0 28.8 43.2#



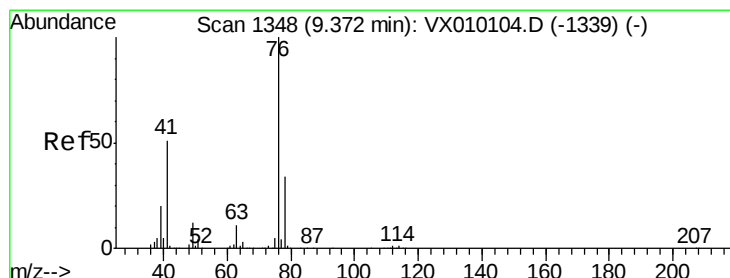
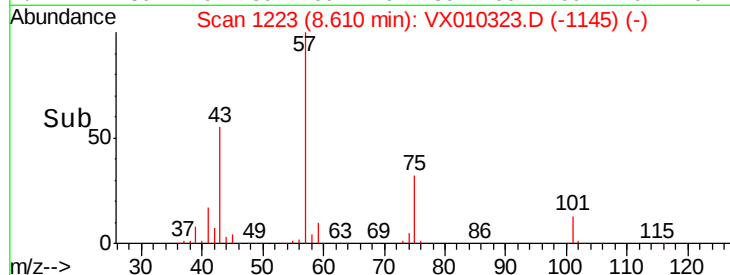
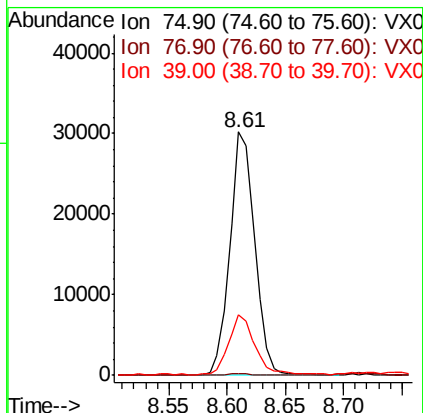
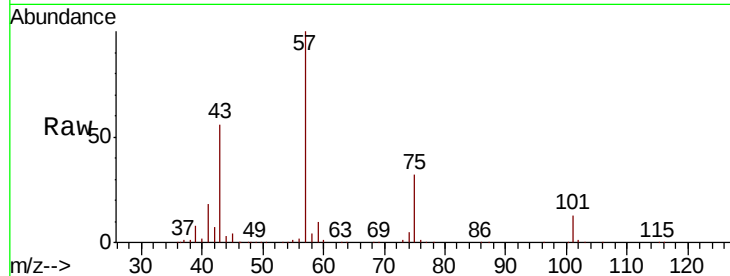


#54

cis-1,3-Dichloropropene
 Concen: 8.599 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX010323.D
 Acq: 17 Jun 2019 14:45

Instrument :
 MSVOA_X
 ClientSampleId :

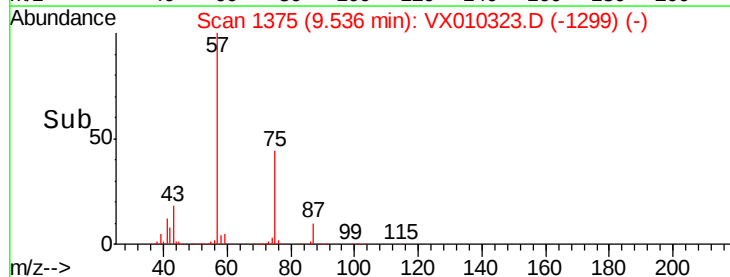
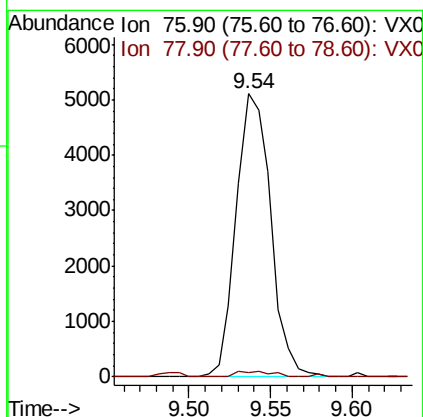
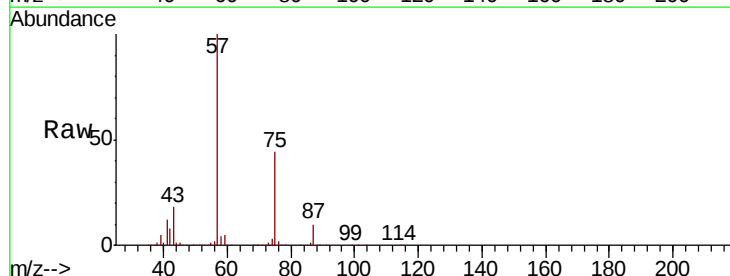
Tot Ion: 75 Resp: 45120
 Ion Ratio Lower Upper
 75 100
 77 0.6 24.8 37.2#
 39 24.6 43.4 65.0#

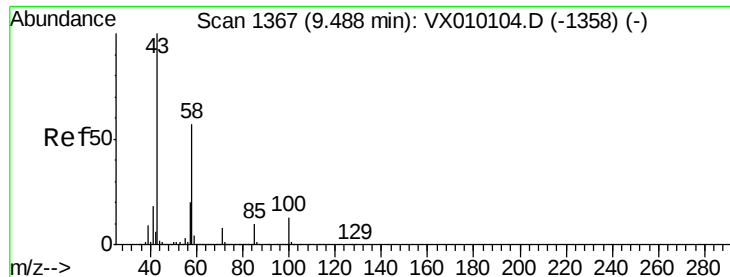


#57

1,3-Dichloropropane
 Concen: 1.476 ug/l
 RT: 9.54 min Scan# 1375
 Delta R.T. 0.16 min
 Lab File: VX010323.D
 Acq: 17 Jun 2019 14:45

Tgt Ion: 76 Resp: 7556
 Ion Ratio Lower Upper
 76 100
 78 2.1 25.4 38.0#

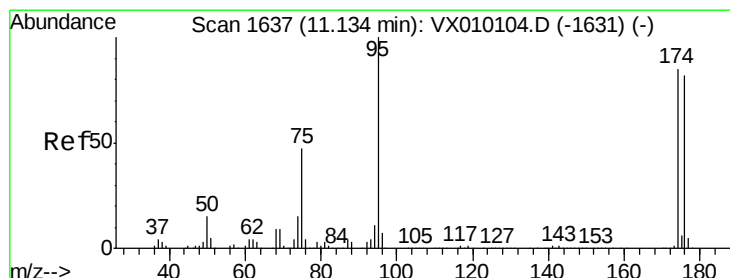
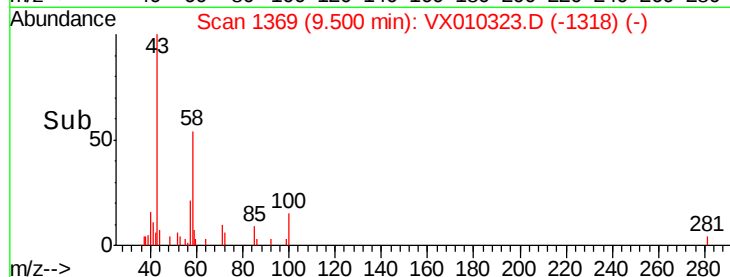
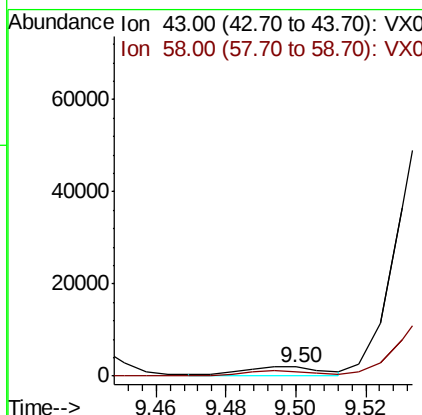
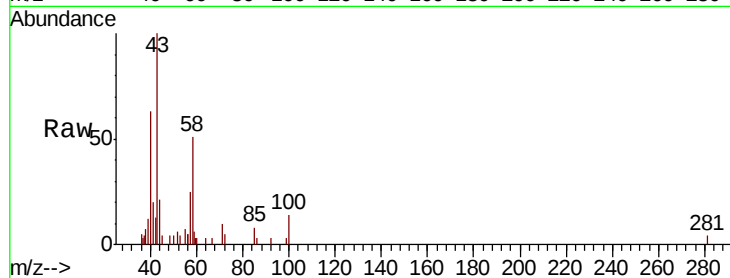




#59
2-Hexanone
Concen: 0.877 ug/l
RT: 9.50 min Scan# 1369
Delta R.T. 0.01 min
Lab File: VX010323.D
Acq: 17 Jun 2019 14:45

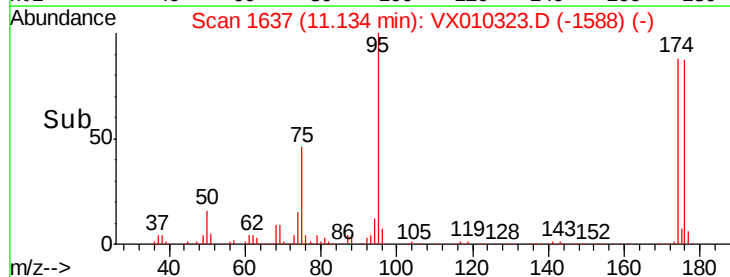
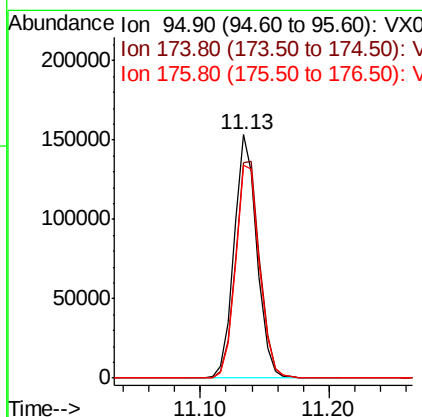
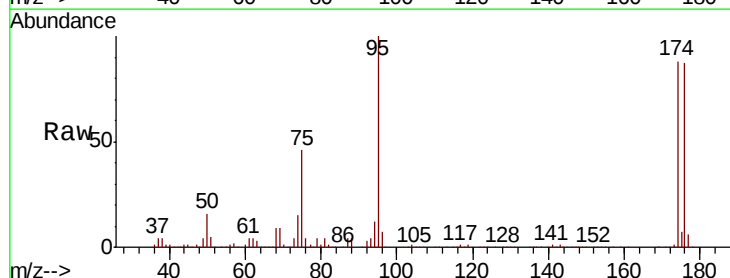
Instrument :
MSVOA_X
ClientSampleId :

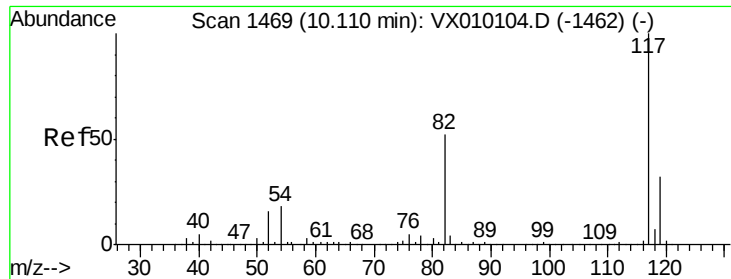
Tot Ion: 43 Resp: 2838
Ion Ratio Lower Upper
43 100
58 57.0 25.1 75.3



#62
4-Bromofluorobenzene
Concen: 45.887 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX010323.D
Acq: 17 Jun 2019 14:45

Tgt Ion: 95 Resp: 189638
Ion Ratio Lower Upper
95 100
174 94.8 0.0 160.4
176 91.7 0.0 154.6

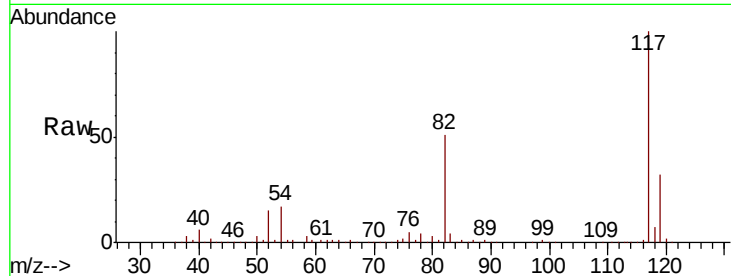




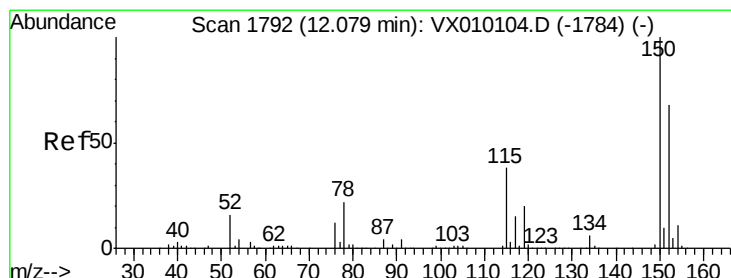
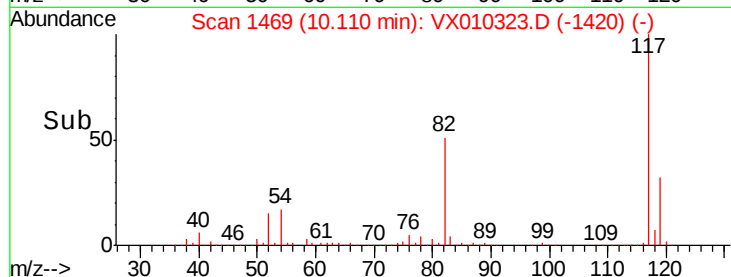
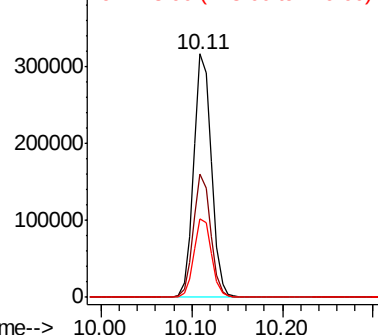
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX010323.D
Acq: 17 Jun 2019 14:45

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 433768
Ion Ratio Lower Upper
117 100
82 50.7 49.2 73.8
119 32.0 25.2 37.8

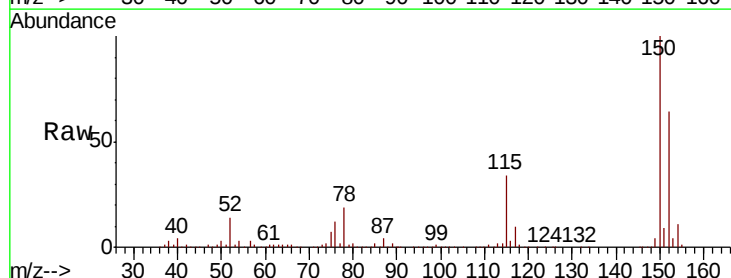


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

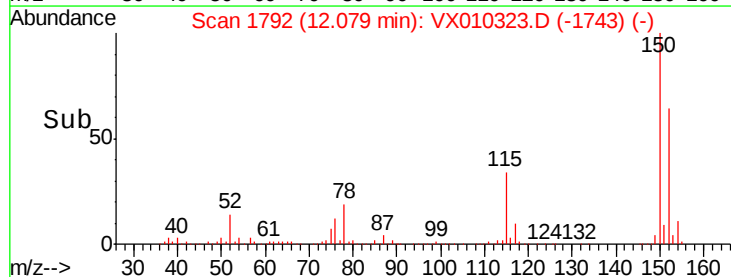
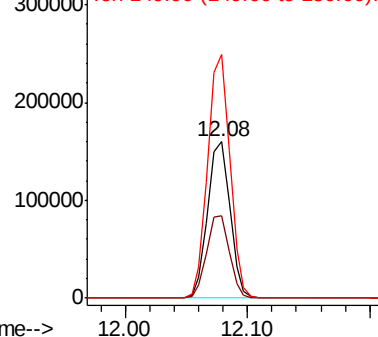


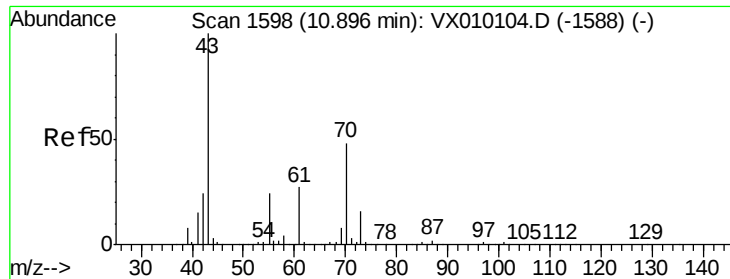
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX010323.D
Acq: 17 Jun 2019 14:45

Tgt Ion:152 Resp: 201182
Ion Ratio Lower Upper
152 100
115 53.3 41.4 124.2
150 155.0 0.0 345.2



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

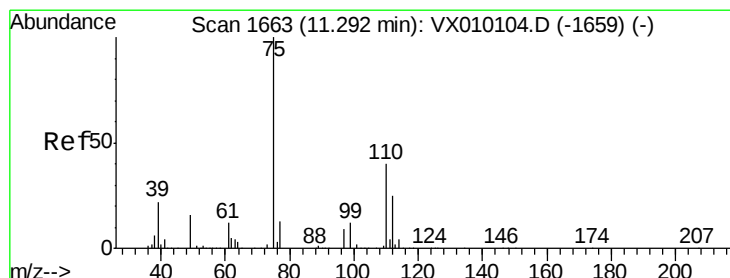
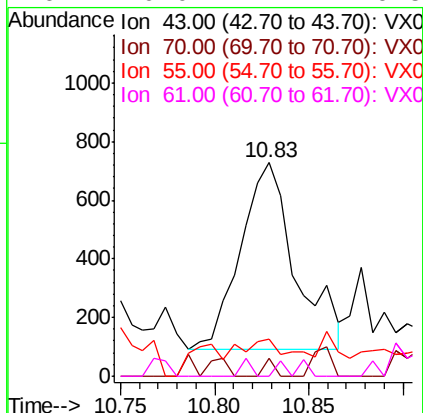
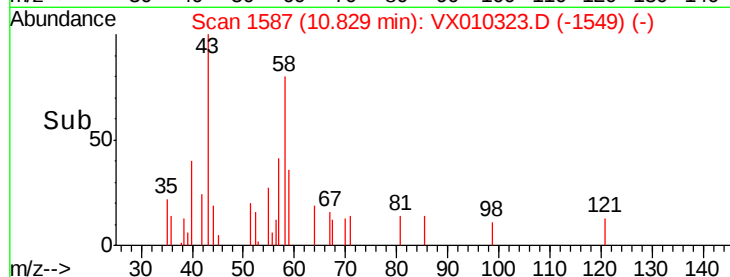
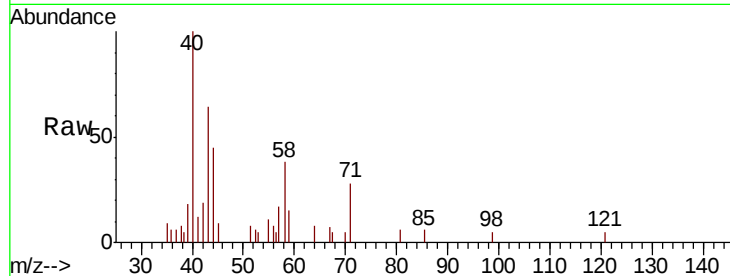




#74
N-amvl acetate
Concen: 0.231 ug/l
RT: 10.83 min Scan# 1587
Delta R.T. -0.07 min
Lab File: VX010323.D
Acq: 17 Jun 2019 14:45

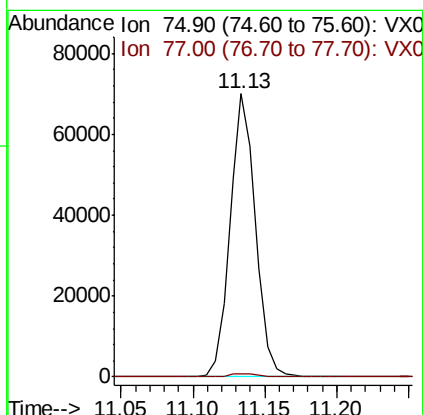
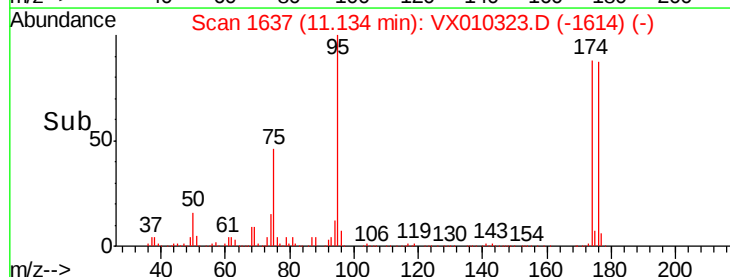
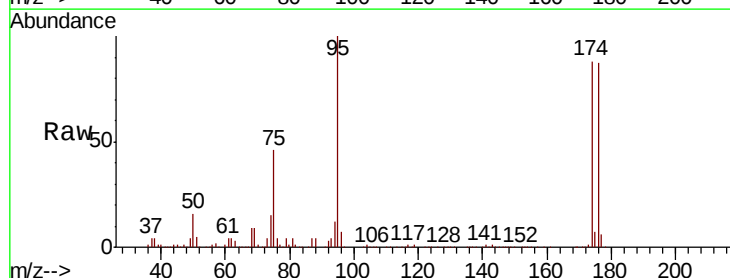
Instrument :
MSVOA_X
ClientSampled :

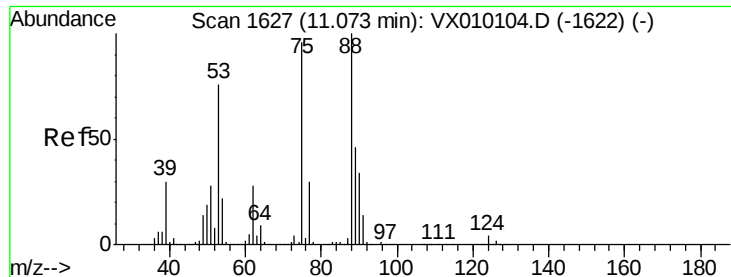
Tot Ion: 43 Resp: 1284
Ion Ratio Lower Upper
43 100
70 0.0 28.6 43.0#
55 13.6 17.8 26.8#
61 0.0 17.7 26.5#



#76
1,2,3-Trichloropropane
Concen: 21.576 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX010323.D
Acq: 17 Jun 2019 14:45

Tgt Ion: 75 Resp: 86823
Ion Ratio Lower Upper
75 100
77 1.3 22.1 66.1#





#81

trans-1,4-Dichloro-2-butene

Concen: 47.671 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010323.D

Acq: 17 Jun 2019 14:45

Instrument :

MSVOA_X

ClientSampleId :

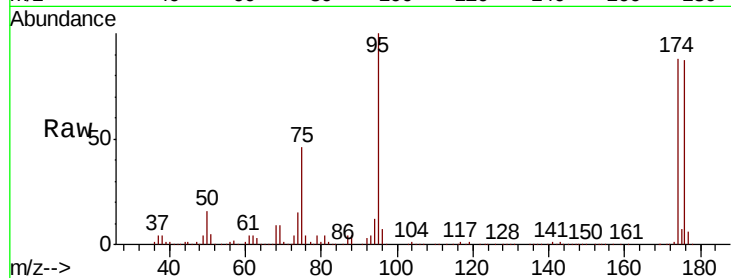
Tot Ion: 75 Resp: 86823

Ion Ratio Lower Upper

75 100

53 0.0 79.8 119.6#

89 0.1 34.2 51.4#



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

