

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041319\
 Data File : VX008933.D
 Acq On : 13 Apr 2019 15:45
 Operator : JC/SP
 Sample : K2385-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 14 04:14:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 04 04:47:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	195847	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	308404	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	260512	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	106004	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	124296	43.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.02%	
35) Dibromofluoromethane	5.50	113	92544	46.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.86%	
50) Toluene-d8	8.71	98	382071	48.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.32%	
62) 4-Bromofluorobenzene	11.13	95	122796	44.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.20%	

Target Compounds

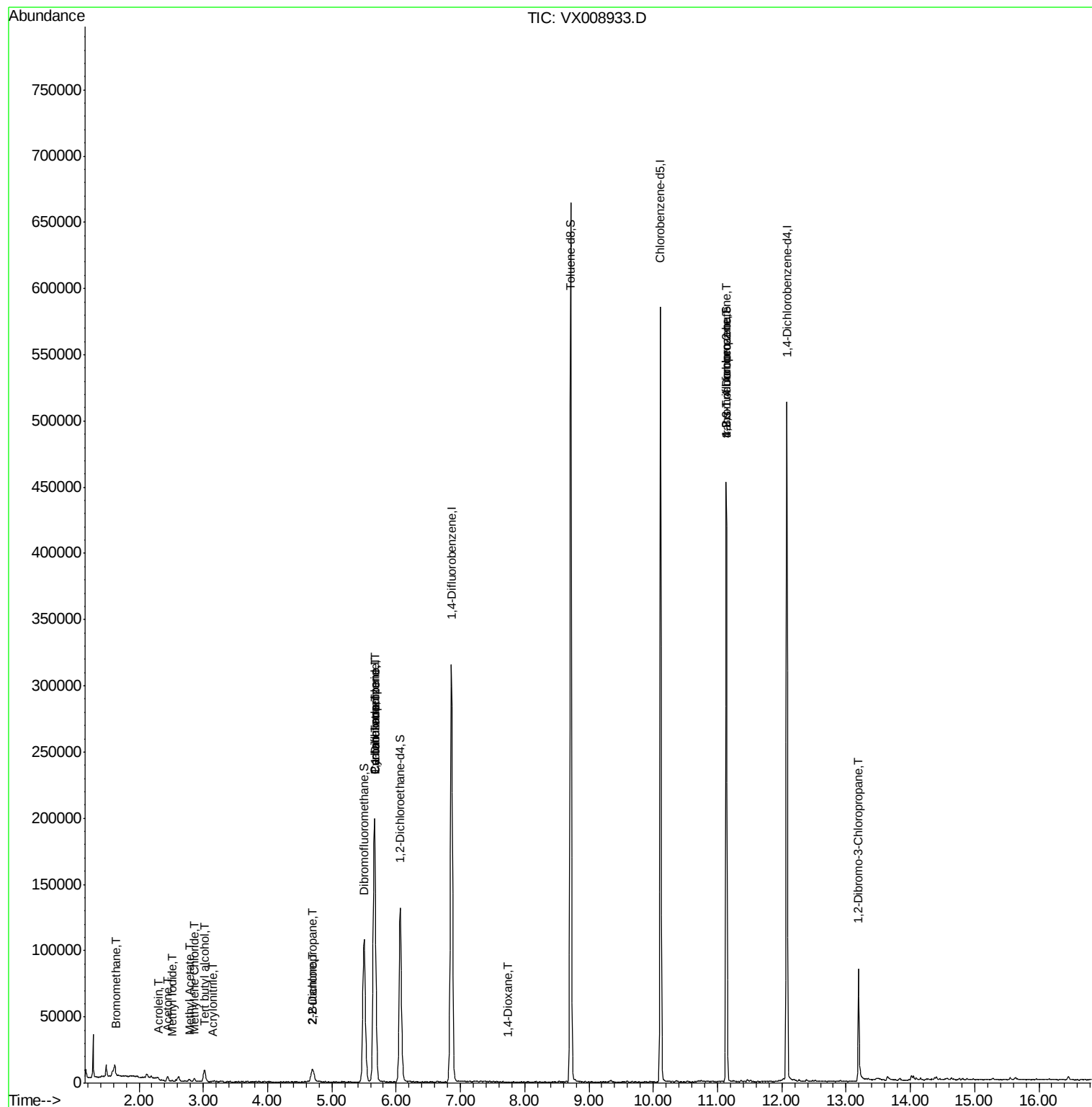
					Qvalue
3) Chloromethane	1.32	50	468	Below Cal	# 79
5) Bromomethane	1.65	94	440	2.167	ug/l 96
6) Chloroethane	1.70	64	112	Below Cal	# 43
10) Methyl Iodide	2.52	142	365	4.173	ug/l # 73
11) Tert butyl alcohol	3.01	59	5811	8.689	ug/l # 76
13) Acrolein	2.30	56	186	0.561	ug/l # 58
15) Acrylonitrile	3.15	53	379	0.214	ug/l # 33
16) Acetone	2.45	43	4317	2.624	ug/l 99
17) Carbon Disulfide	2.57	76	1371	Below Cal	# 85
18) Methyl Acetate	2.78	43	2213	0.555	ug/l 98
20) Methylene Chloride	2.85	84	862	0.313	ug/l 86
25) 2-Butanone	4.70	43	1169	0.450	ug/l # 53
26) 2,2-Dichloropropane	4.71	77	984	0.282	ug/l # 53
28) Bromochloromethane	5.03	49	39	Below Cal	# 22
31) Cyclohexane	5.66	56	4758	0.964	ug/l # 1
36) 1,1-Dichloropropene	5.66	75	15057	4.466	ug/l # 51
38) Carbon Tetrachloride	5.66	117	18706	6.704	ug/l # 17
49) 1,4-Dioxane	7.73	88	38	0.569	ug/l # 19
76) 1,2,3-Trichloropropane	11.13	75	61672	21.178	ug/l # 33
81) trans-1,4-Dichloro-2-buten	11.13	75	61672	58.379	ug/l # 9
92) 1,2-Dibromo-3-Chloropropan	13.19	75	200	0.272	ug/l # 3

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX008933.D

Acq: 13 Apr 2019 15:45

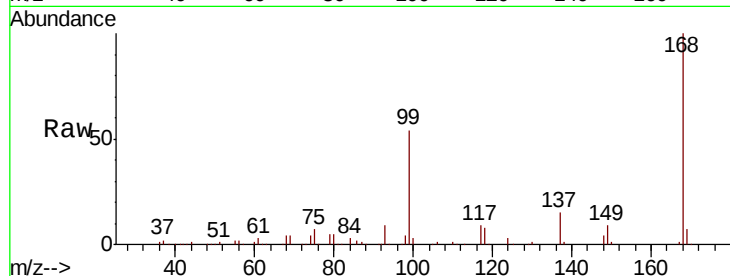
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 195847

Ion Ratio Lower Upper

168 100

99 53.8 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

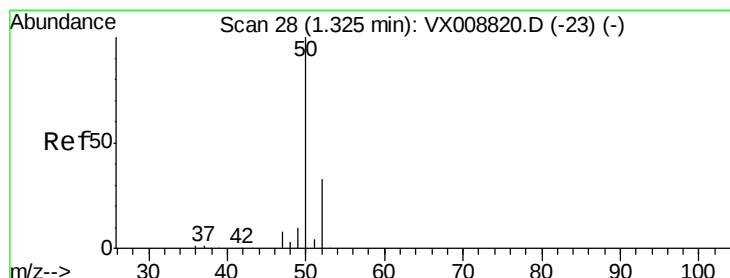
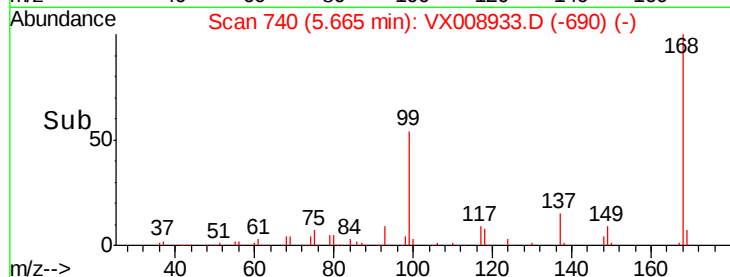
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008933.D

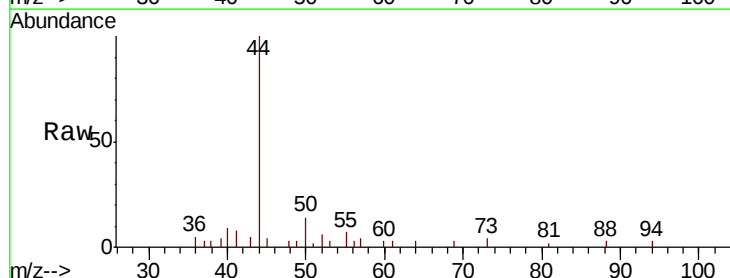
Acq: 13 Apr 2019 15:45

Tgt Ion: 50 Resp: 468

Ion Ratio Lower Upper

50 100

52 43.9 25.8 38.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

400

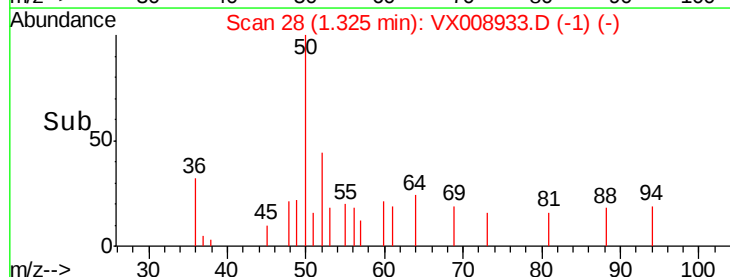
300

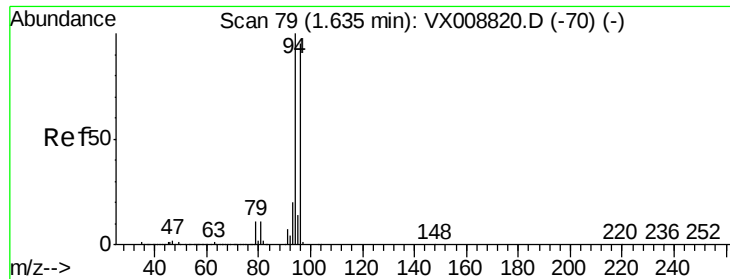
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 2.167 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008933.D

Acq: 13 Apr 2019 15:45

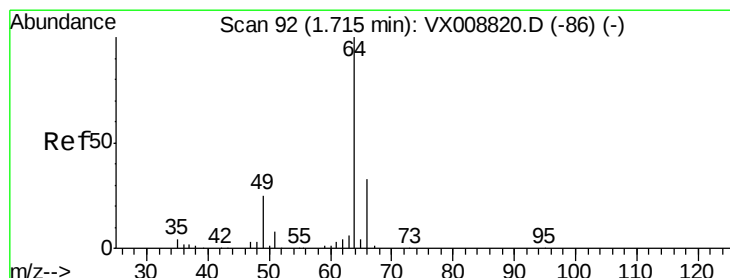
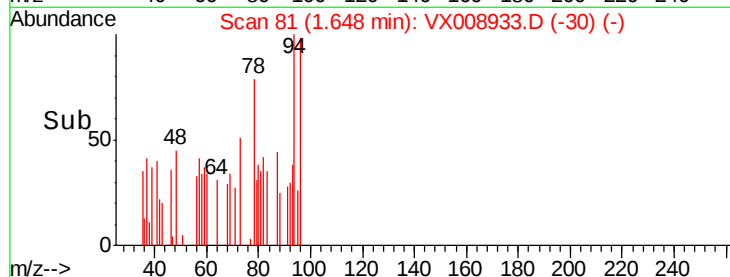
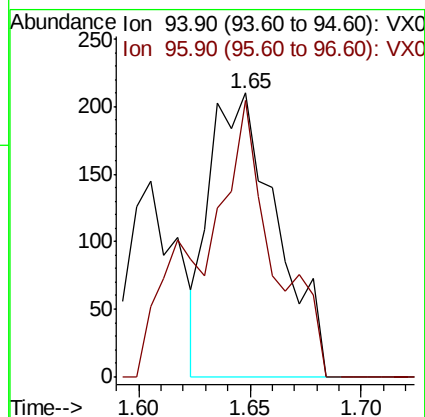
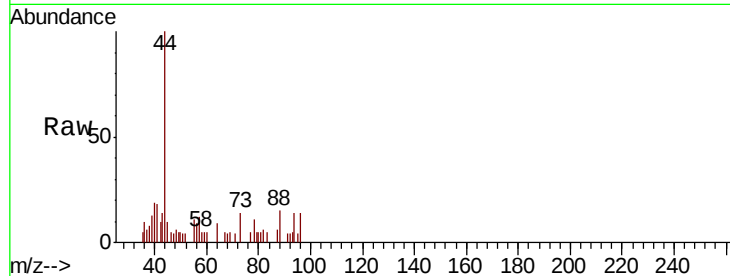
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 94 Resp: 440

Ion Ratio Lower Upper

94 100

96 97.6 75.2 112.8



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 89

Delta R.T. -0.02 min

Lab File: VX008933.D

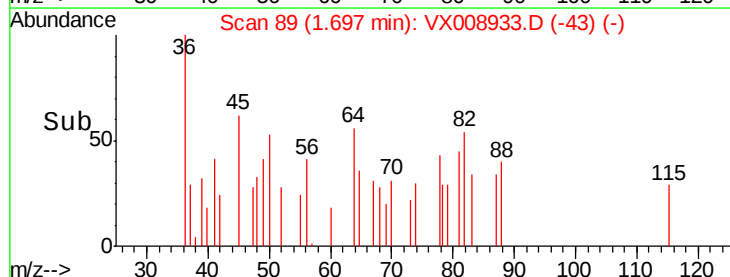
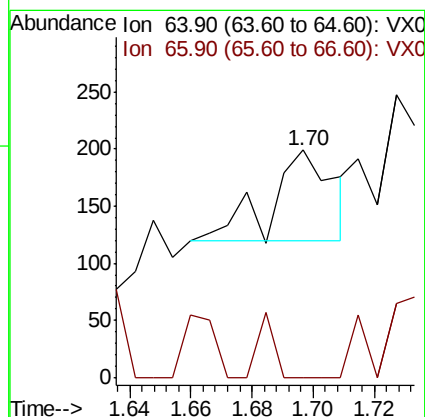
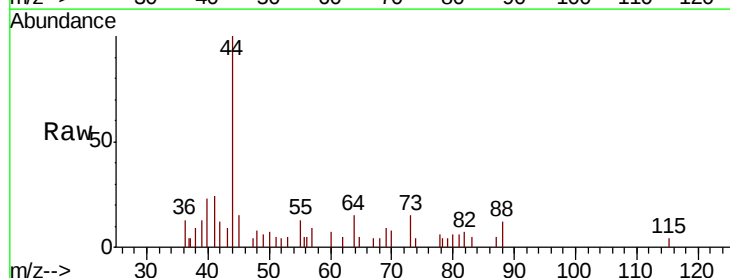
Acq: 13 Apr 2019 15:45

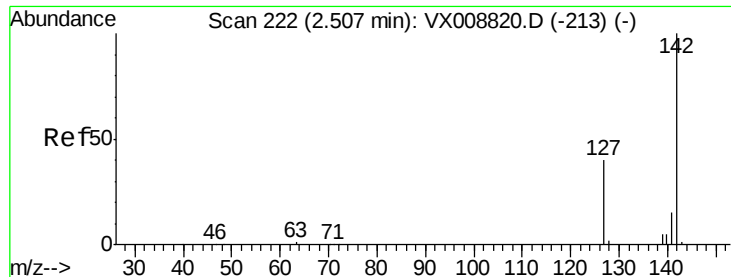
Tgt Ion: 64 Resp: 112

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.0#

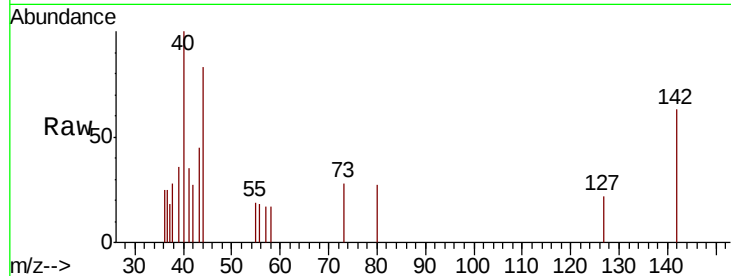




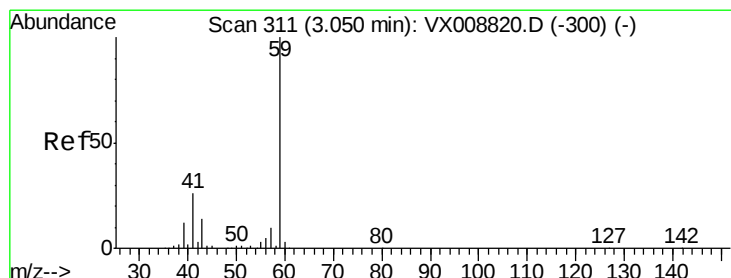
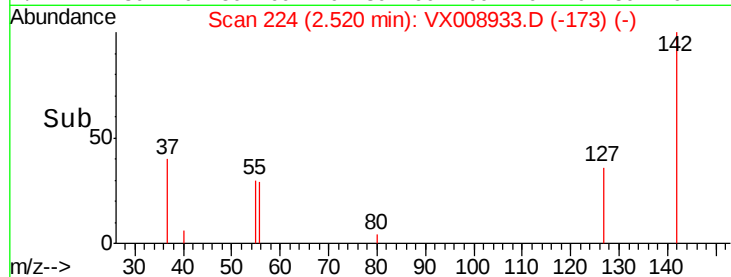
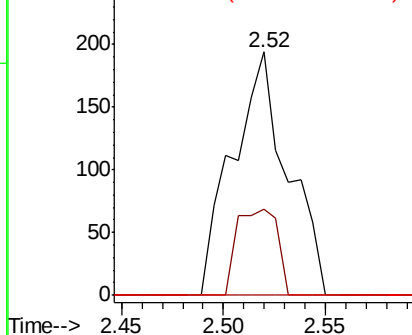
#10
Methvl Iodide
Concen: 4.173 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX008933.D
Acq: 13 Apr 2019 15:45

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:142 Resp: 365
Ion Ratio Lower Upper
142 100
127 25.8 33.0 49.6#
141 0.0 11.4 17.2#

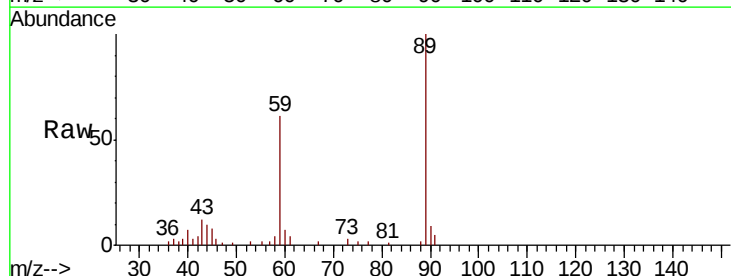


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

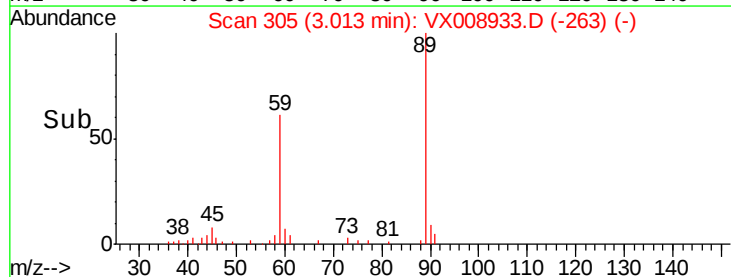
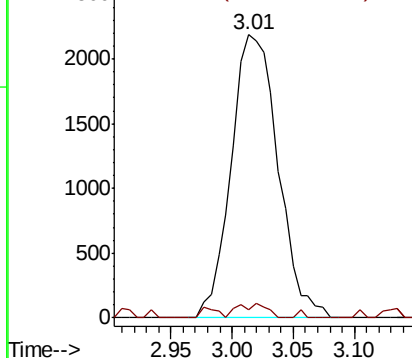


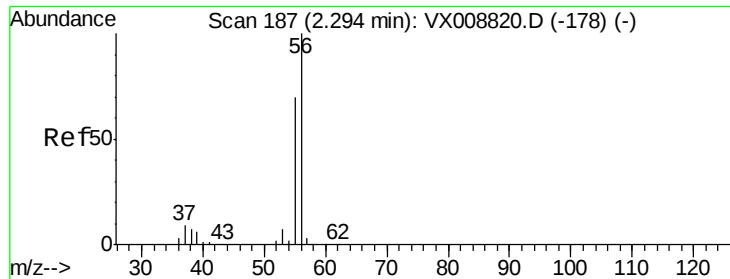
#11
Tert butyl alcohol
Concen: 8.689 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX008933.D
Acq: 13 Apr 2019 15:45

Tgt Ion: 59 Resp: 5811
Ion Ratio Lower Upper
59 100
57 1.5 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0

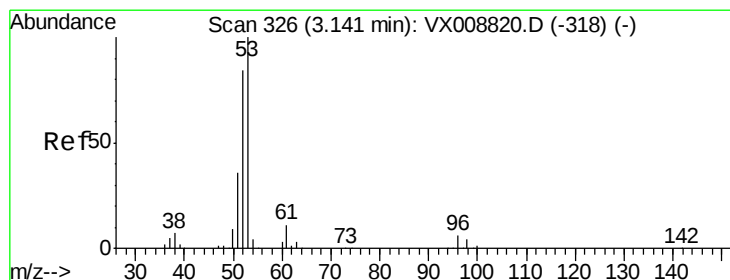
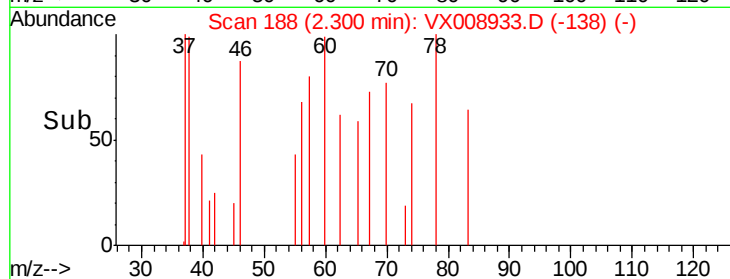
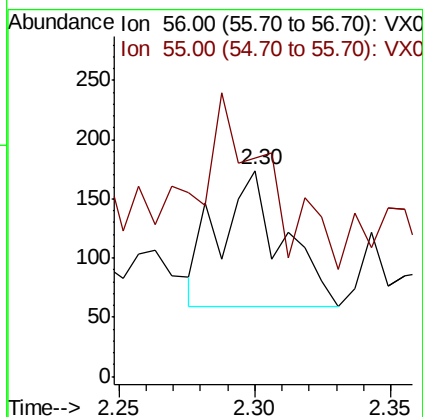
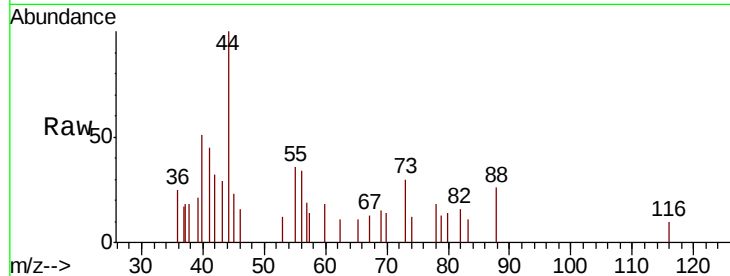




#13
Acrolein
Concen: 0.561 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX008933.D
Acq: 13 Apr 2019 15:45

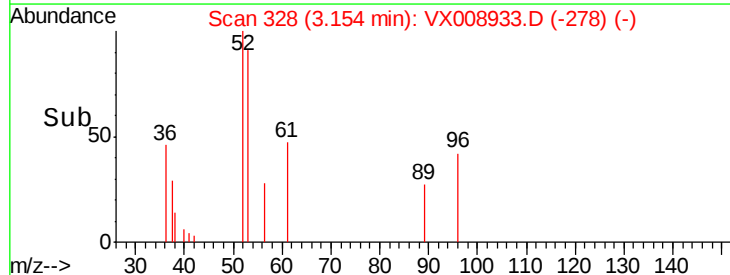
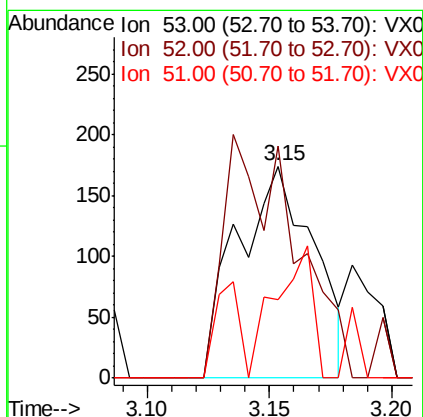
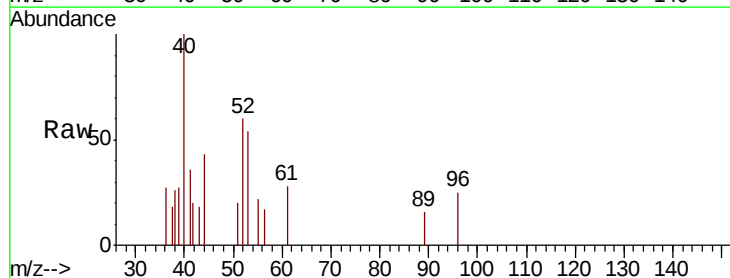
Instrument :
MSVOA_X
ClientSampled :

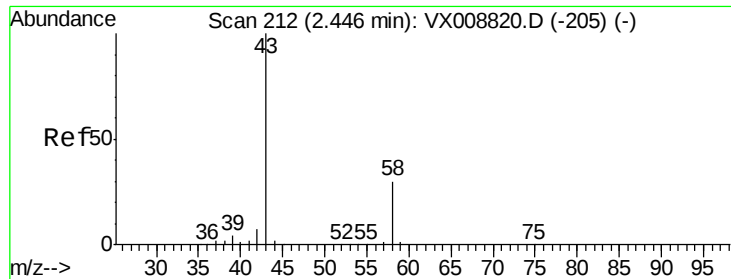
Tot Ion: 56 Resp: 186
Ion Ratio Lower Upper
56 100
55 107.5 58.0 87.0#



#15
Acrylonitrile
Concen: 0.214 ug/l
RT: 3.15 min Scan# 328
Delta R.T. 0.01 min
Lab File: VX008933.D
Acq: 13 Apr 2019 15:45

Tgt Ion: 53 Resp: 379
Ion Ratio Lower Upper
53 100
52 0.0 66.5 99.7#
51 30.9 28.6 42.8





#16

Acetone

Concen: 2.624 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX008933.D

Acq: 13 Apr 2019 15:45

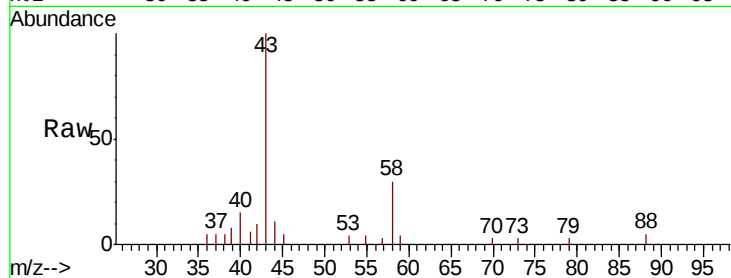
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 4317

Ion Ratio Lower Upper

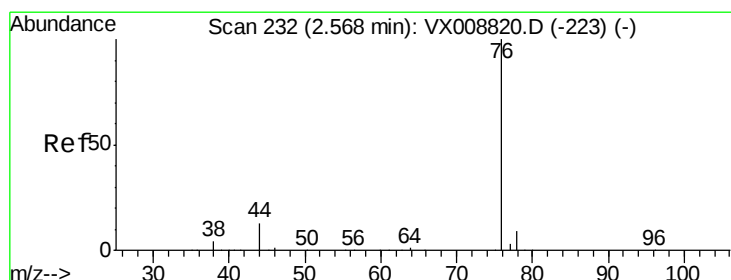
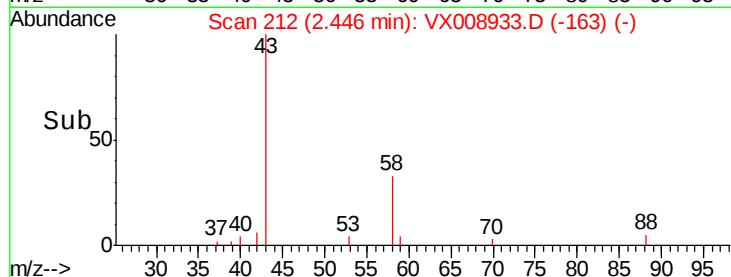
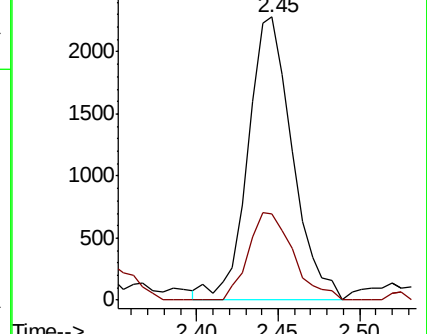
43 100

58 30.4 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008933.D

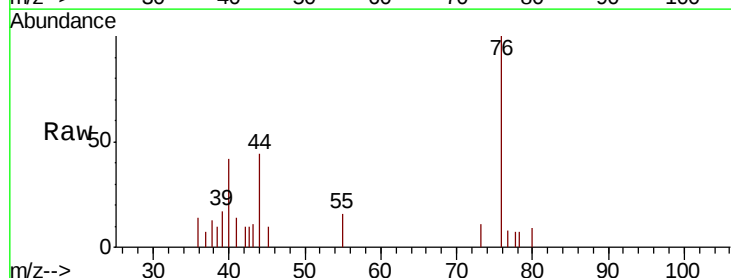
Acq: 13 Apr 2019 15:45

Tgt Ion: 76 Resp: 1371

Ion Ratio Lower Upper

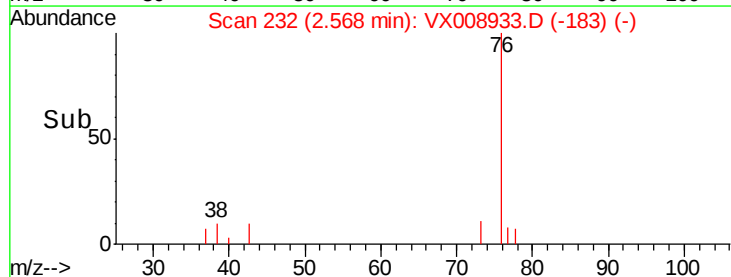
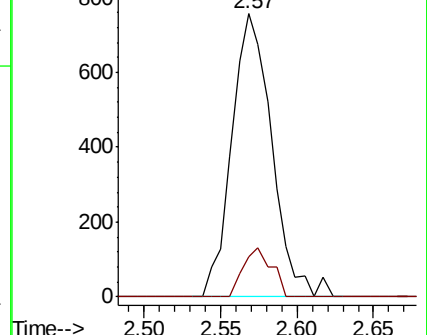
76 100

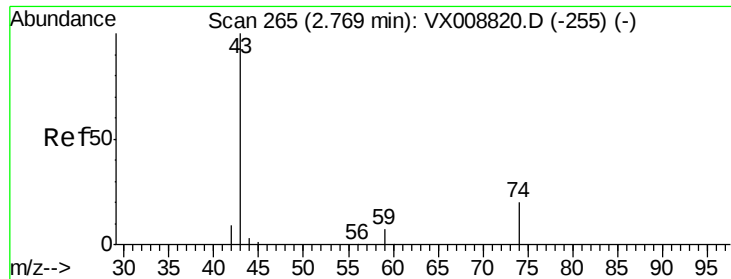
78 14.3 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

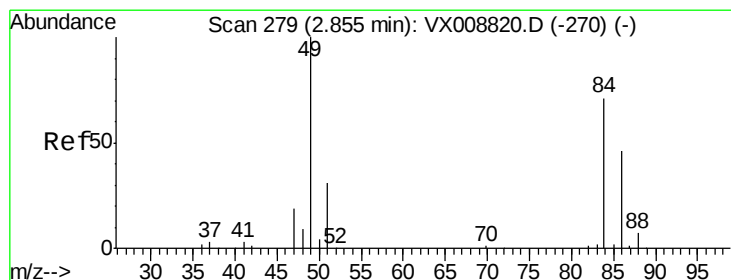
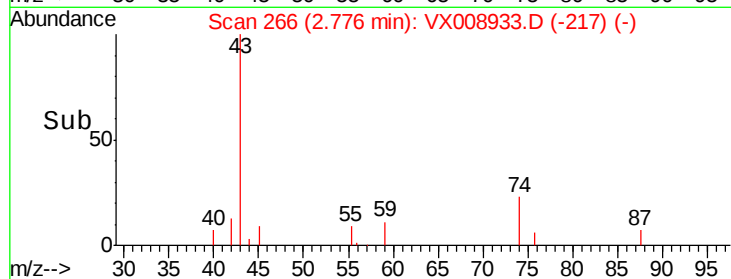
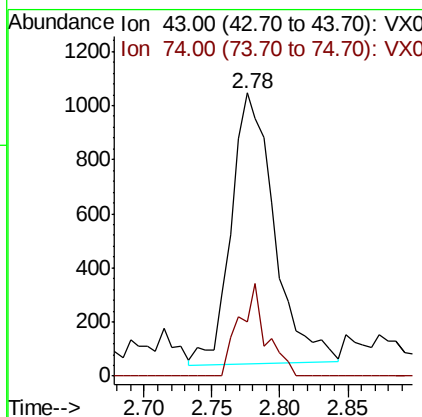
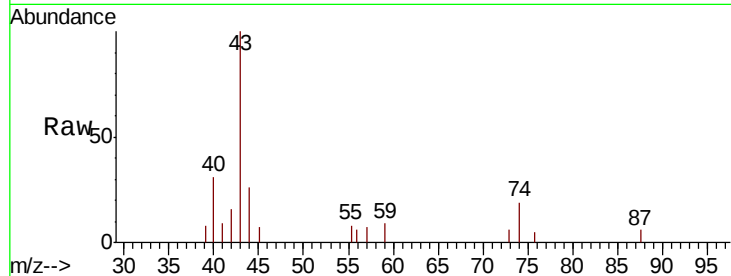




#18
Methyl Acetate
Concen: 0.555 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX008933.D
Acq: 13 Apr 2019 15:45

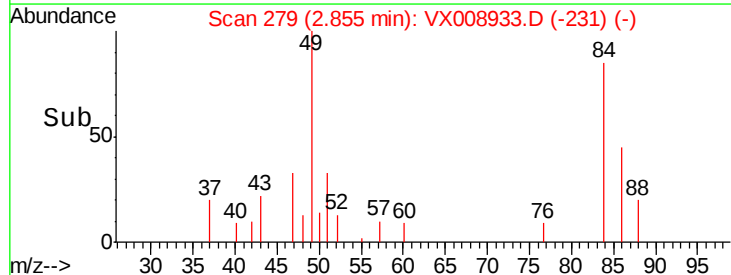
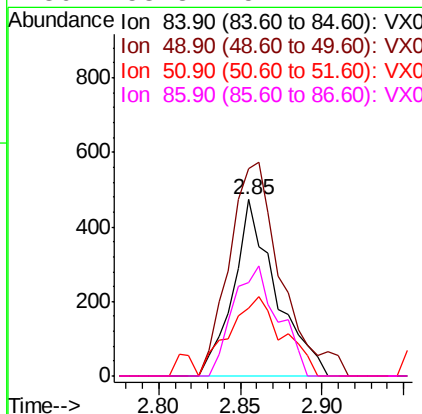
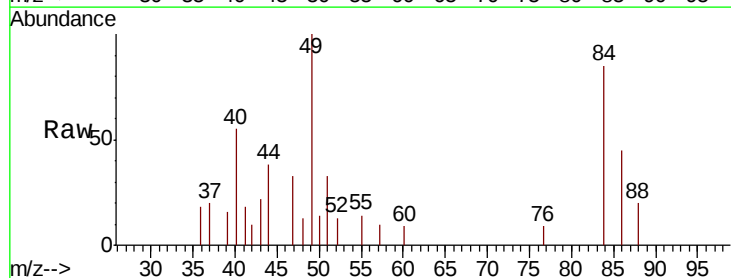
Instrument :
MSVOA_X
ClientSampleId :

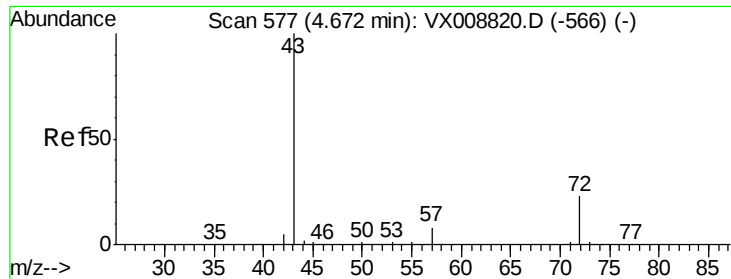
Tot Ion: 43 Resp: 2213
Ion Ratio Lower Upper
43 100
74 21.4 16.5 24.7



#20
Methylene Chloride
Concen: 0.313 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX008933.D
Acq: 13 Apr 2019 15:45

Tgt Ion: 84 Resp: 862
Ion Ratio Lower Upper
84 100
49 117.3 109.7 164.5
51 38.3 33.6 50.4
86 53.3 51.4 77.2





#25

2-Butanone

Concen: 0.450 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.02 min

Lab File: VX008933.D

Acq: 13 Apr 2019 15:45

Instrument :

MSVOA_X

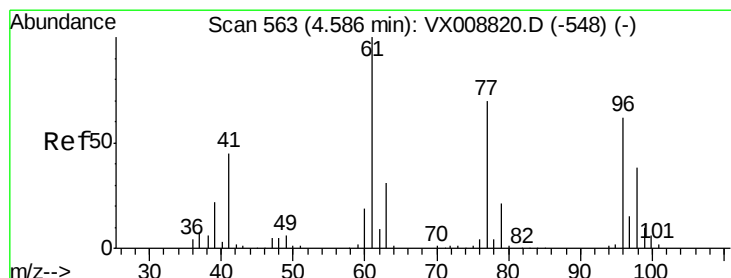
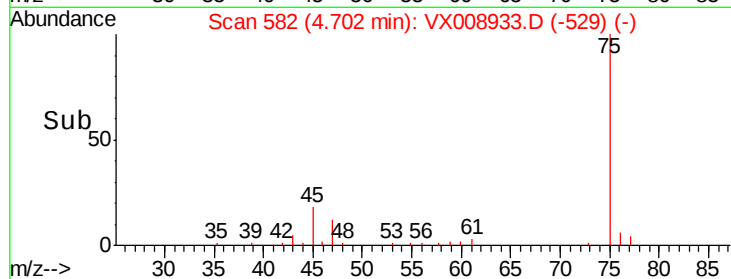
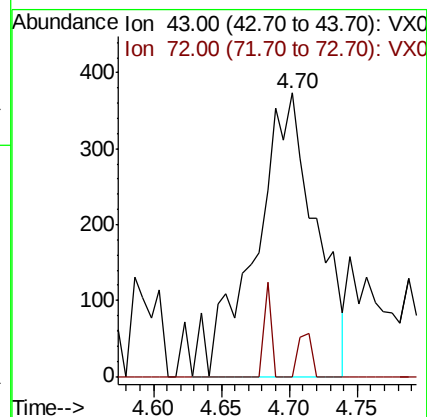
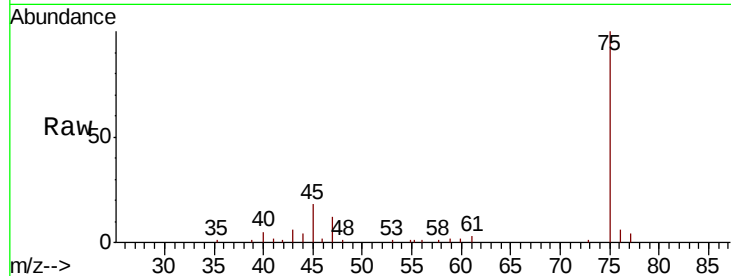
ClientSampleId :

Tot Ion: 43 Resp: 1169

Ion Ratio Lower Upper

43 100

72 0.0 18.2 27.4#



#26

2,2-Dichloropropane

Concen: 0.282 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.12 min

Lab File: VX008933.D

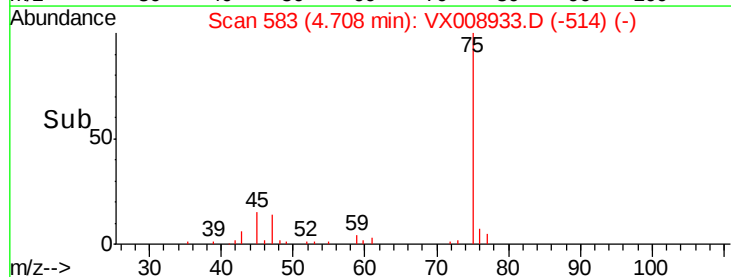
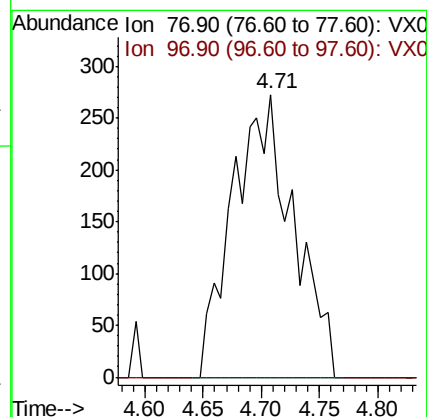
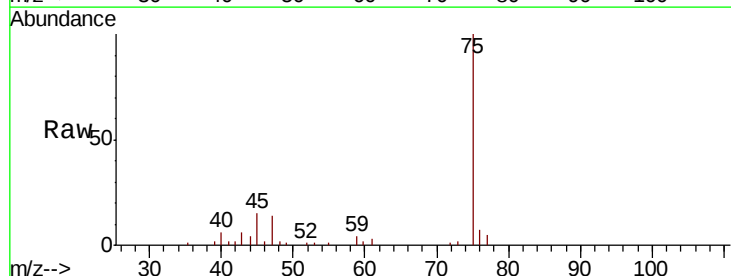
Acq: 13 Apr 2019 15:45

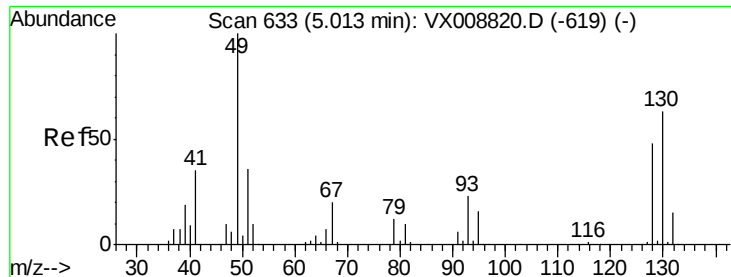
Tgt Ion: 77 Resp: 984

Ion Ratio Lower Upper

77 100

97 0.0 11.5 34.5#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 636

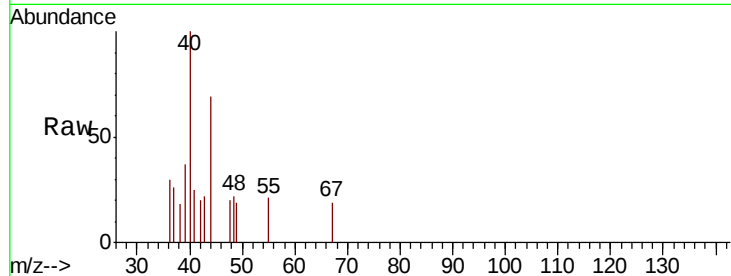
Delta R.T. 0.01 min

Lab File: VX008933.D

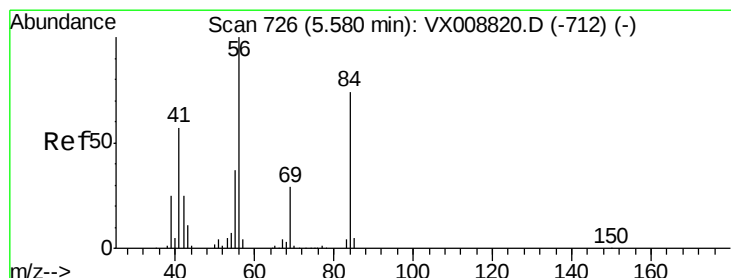
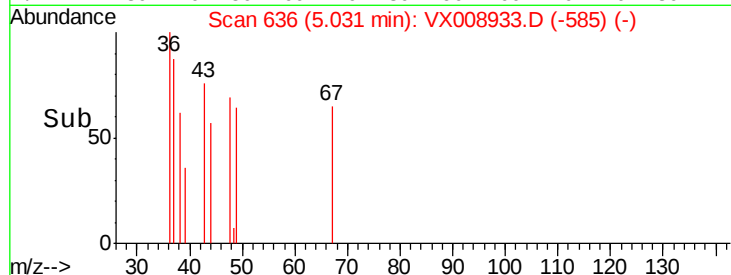
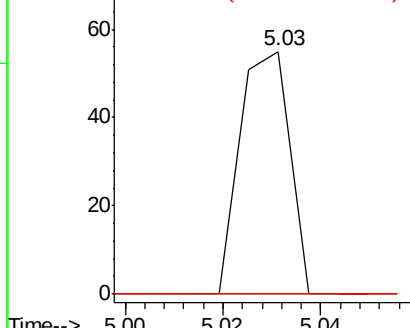
Acq: 13 Apr 2019 15:45

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 49 Resp: 39
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.6
130 0.0 49.3 73.9#



Abundance Ion 48.90 (48.60 to 49.60): VX0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V



#31

Cyclohexane

Concen: 0.964 ug/l

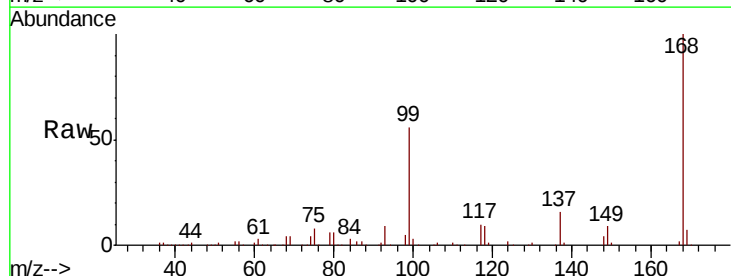
RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

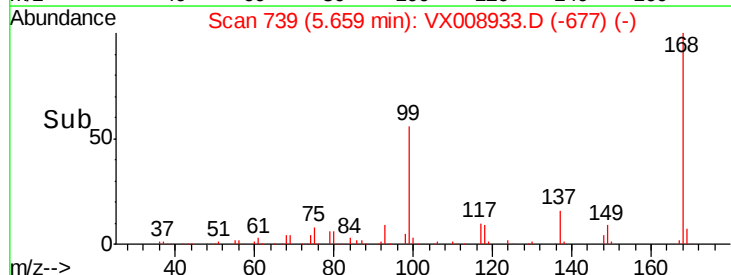
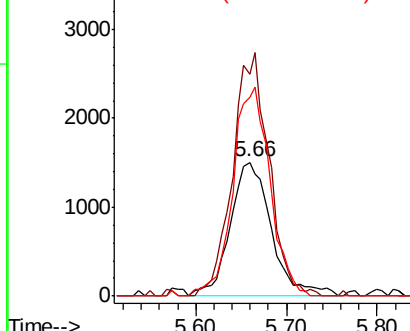
Lab File: VX008933.D

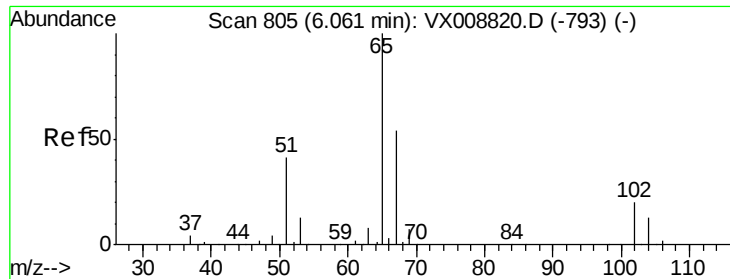
Acq: 13 Apr 2019 15:45

Tgt Ion: 56 Resp: 4758
Ion Ratio Lower Upper
56 100
69 165.8 22.6 33.8#
84 148.8 59.3 88.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

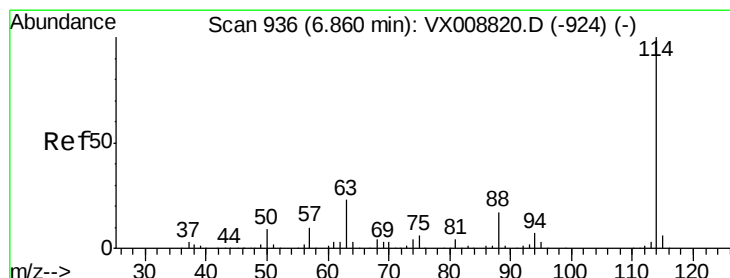
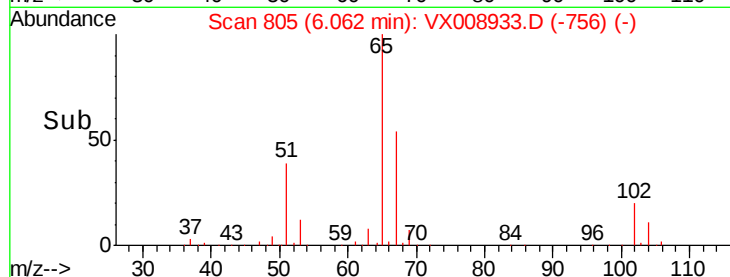
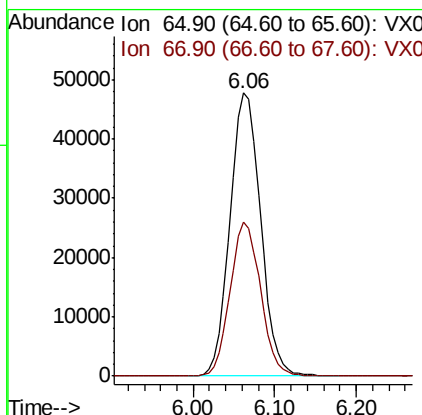
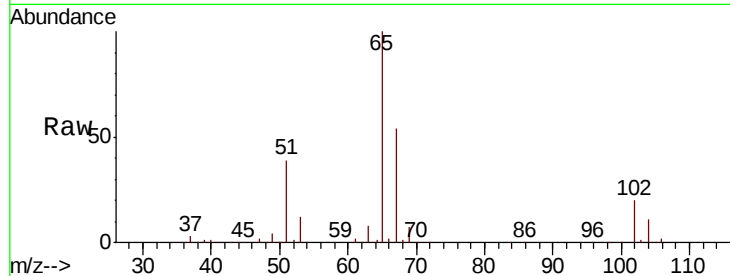




#33
 1,2-Dichloroethane-d4
 Concen: 43.513 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX008933.D
 Acq: 13 Apr 2019 15:45

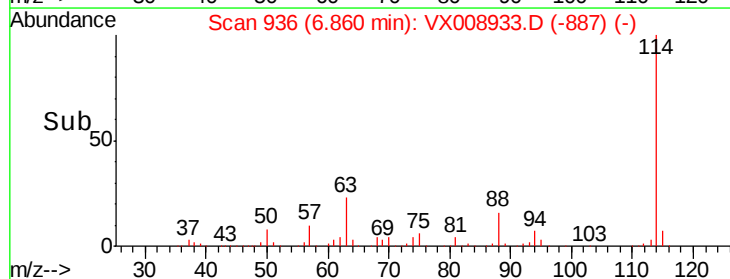
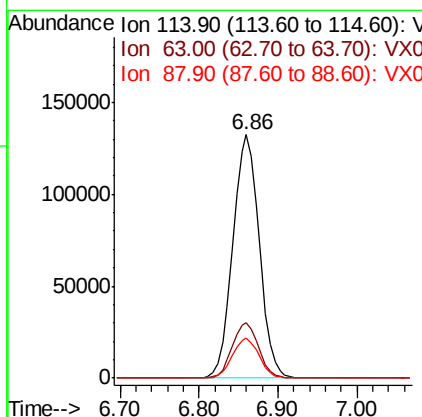
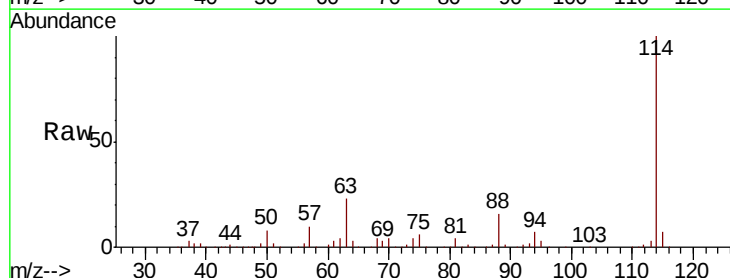
Instrument :
 MSVOA_X
 ClientSampled :

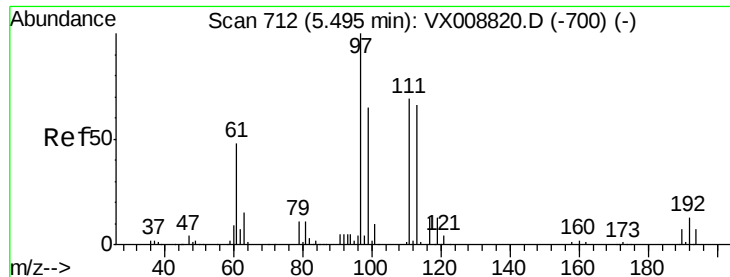
Tot Ion: 65 Resp: 124296
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008933.D
 Acq: 13 Apr 2019 15:45

Tgt Ion: 114 Resp: 308404
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 47.2
 88 16.4 0.0 34.0





#35

Dibromofluoromethane

Concen: 46.933 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX008933.D

Acq: 13 Apr 2019 15:45

Instrument :

MSVOA_X

ClientSampleId :

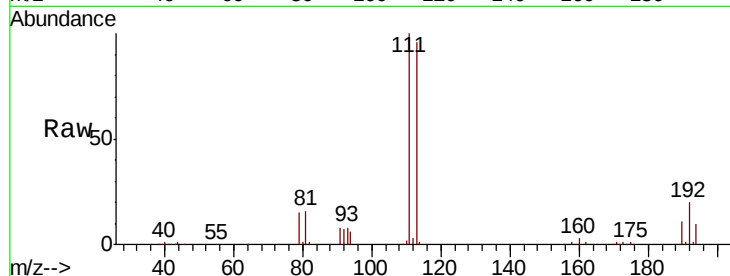
Tot Ion:113 Resp: 92544

Ion Ratio Lower Upper

113 100

111 102.8 83.4 125.2

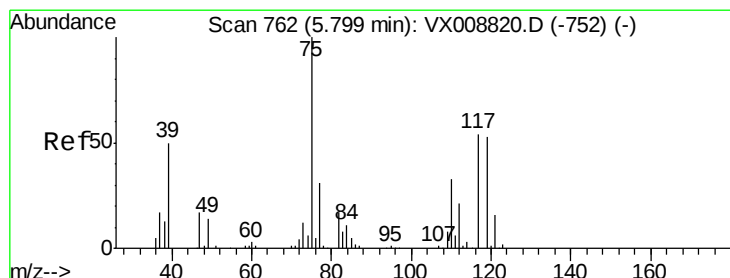
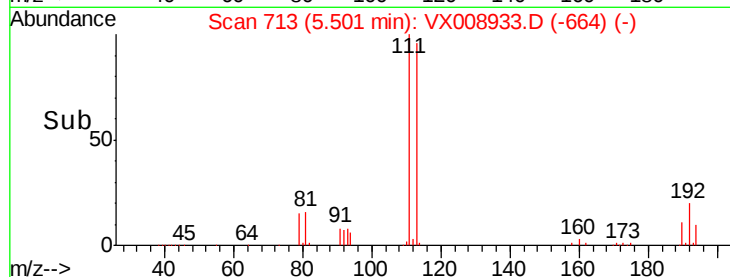
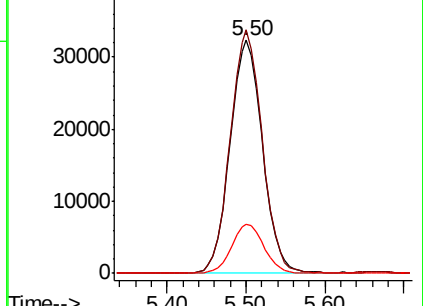
192 21.1 16.1 24.1



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: 4.466 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008933.D

Acq: 13 Apr 2019 15:45

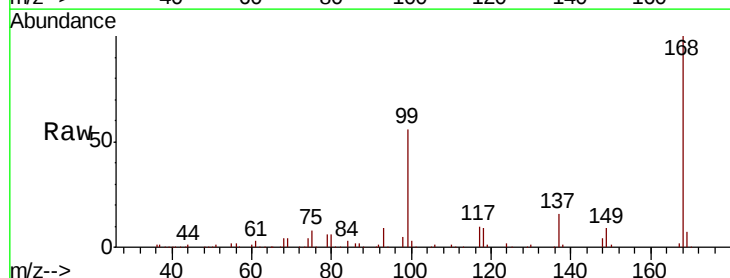
Tgt Ion: 75 Resp: 15057

Ion Ratio Lower Upper

75 100

110 9.2 16.4 49.2#

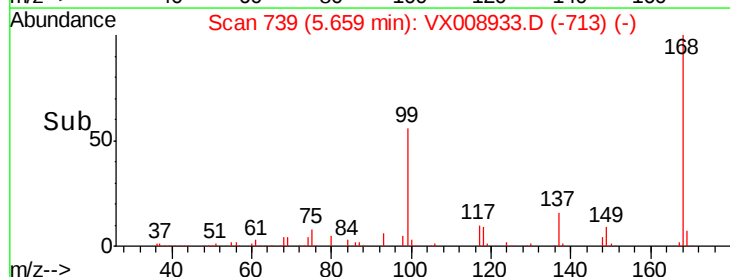
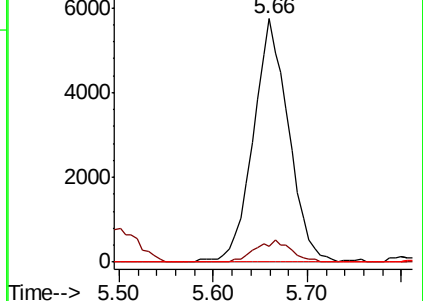
77 0.0 24.7 37.1#

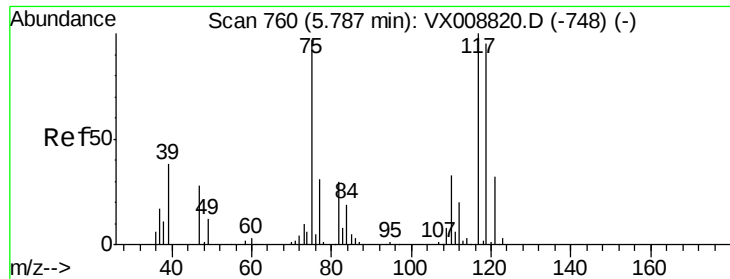


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.704 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008933.D

Acq: 13 Apr 2019 15:45

Instrument :

MSVOA_X

ClientSampled :

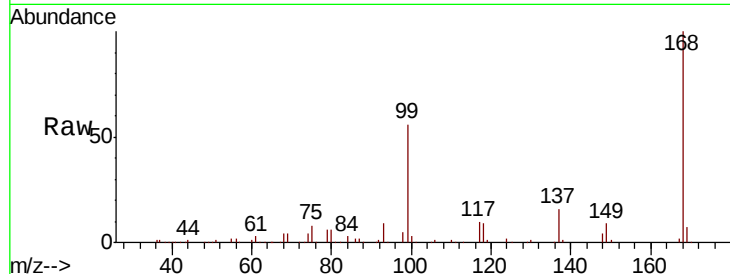
Tot Ion:117 Resp: 18706

Ion Ratio Lower Upper

117 100

119 5.7 75.0 112.6#

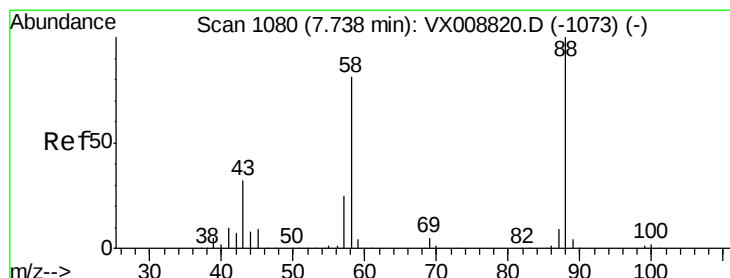
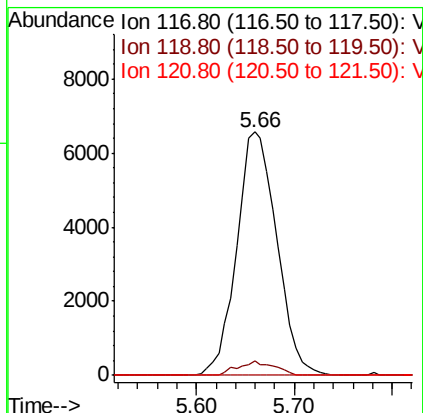
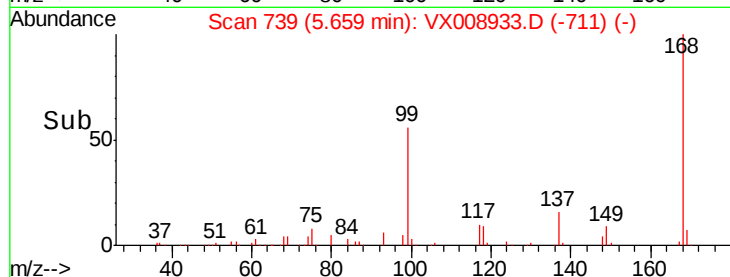
121 0.0 24.3 36.5#



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



#49

1,4-Dioxane

Concen: 0.569 ug/l

RT: 7.73 min Scan# 1079

Delta R.T. -0.01 min

Lab File: VX008933.D

Acq: 13 Apr 2019 15:45

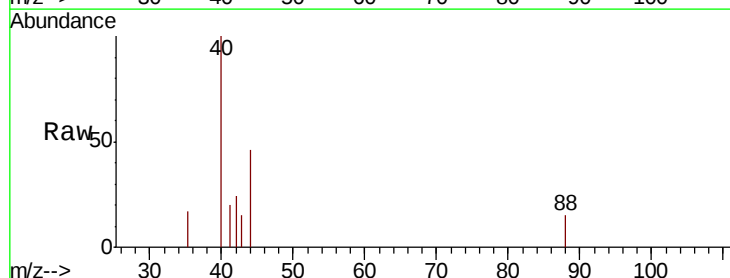
Tgt Ion: 88 Resp: 38

Ion Ratio Lower Upper

88 100

43 0.0 28.6 43.0#

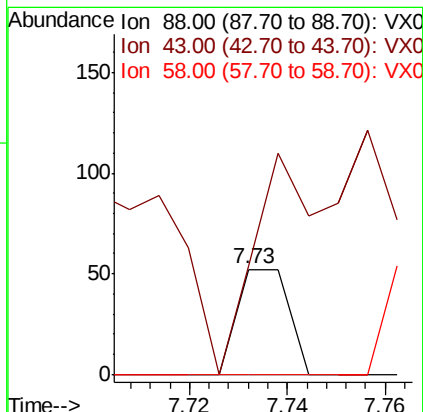
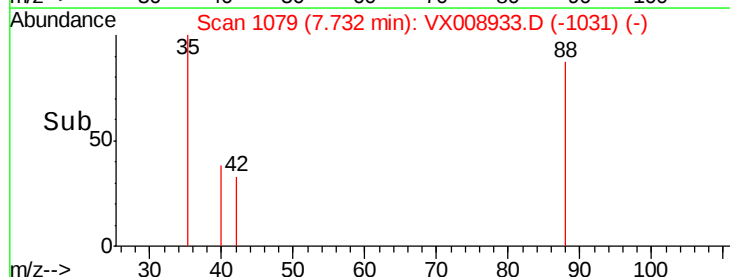
58 0.0 62.2 93.2#

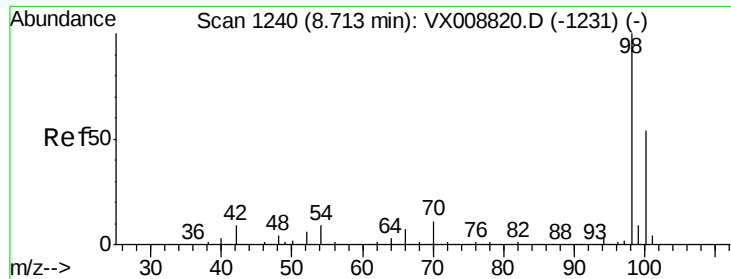


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

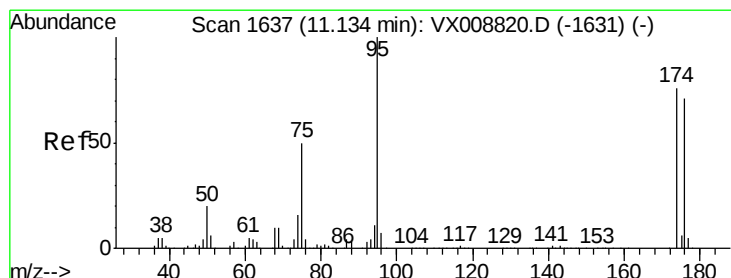
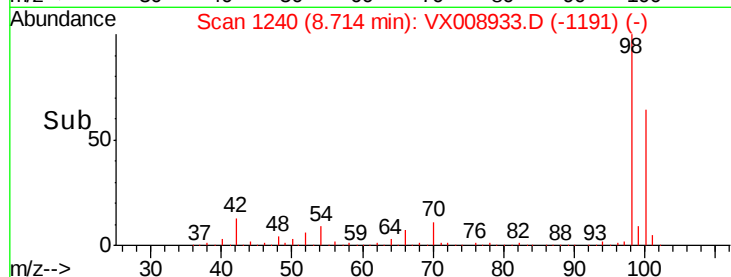
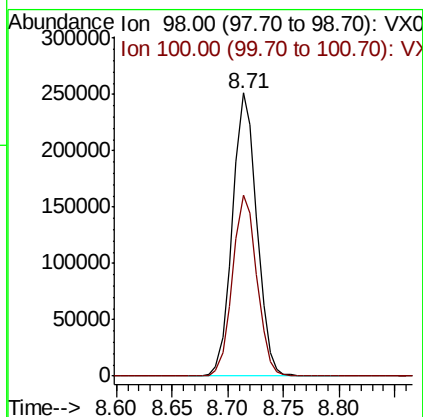
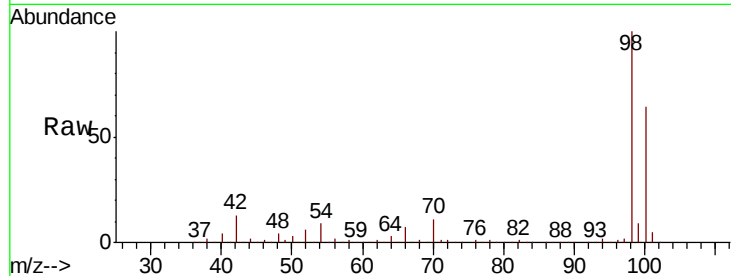




#50
Toluene-d8
Concen: 48.664 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX008933.D
Acq: 13 Apr 2019 15:45

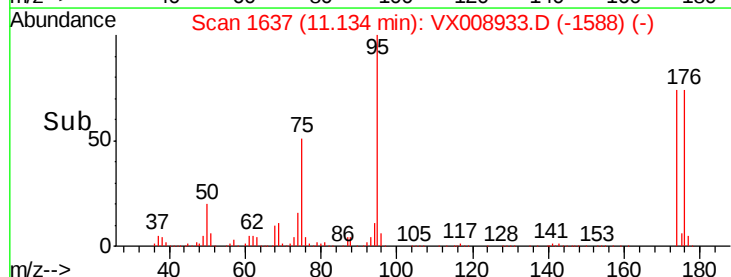
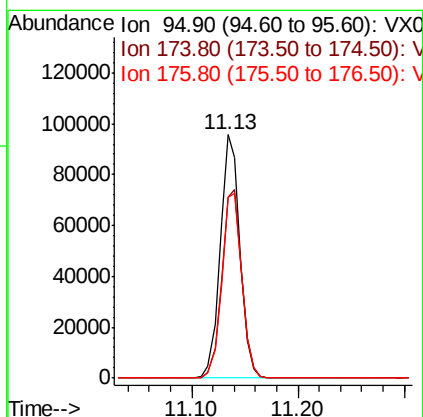
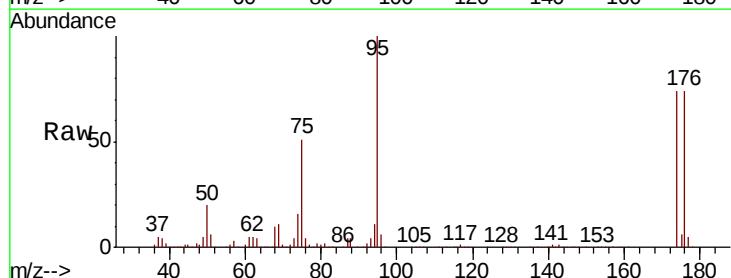
Instrument :
MSVOA_X
ClientSampled :

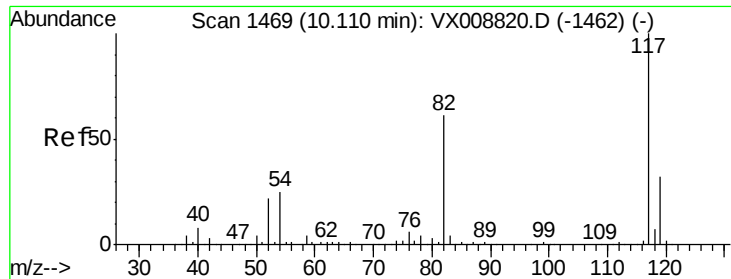
Tot Ion: 98 Resp: 382071
Ion Ratio Lower Upper
98 100
100 63.9 51.4 77.0



#62
4-Bromofluorobenzene
Concen: 44.105 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX008933.D
Acq: 13 Apr 2019 15:45

Tgt Ion: 95 Resp: 122796
Ion Ratio Lower Upper
95 100
174 78.9 0.0 151.8
176 77.3 0.0 145.8

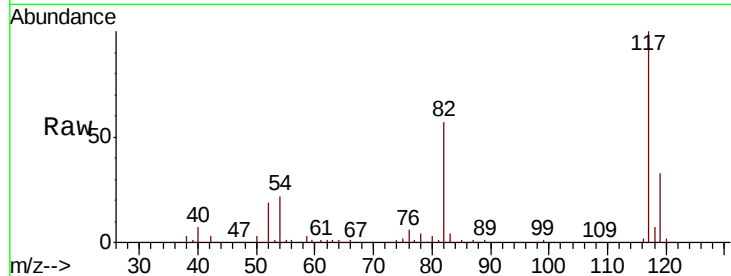




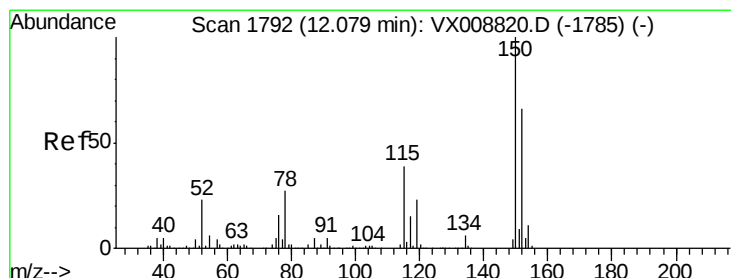
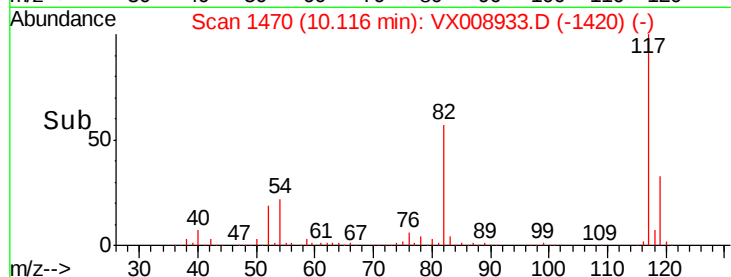
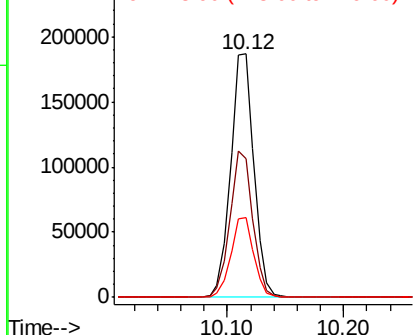
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX008933.D
Acq: 13 Apr 2019 15:45

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 260512
Ion Ratio Lower Upper
117 100
82 56.9 49.6 74.4
119 32.9 25.0 37.4

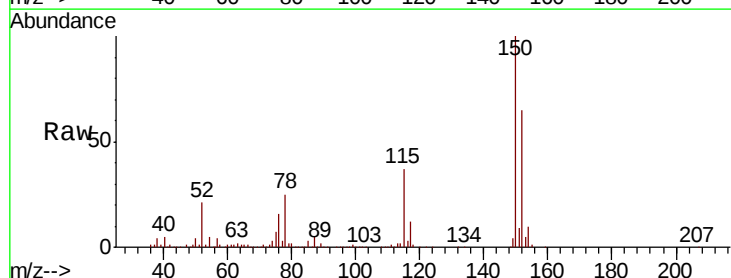


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

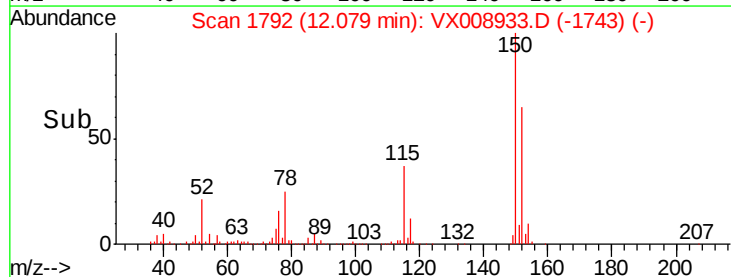
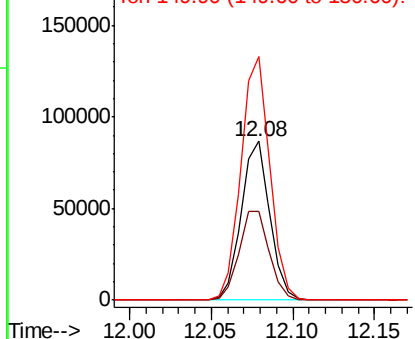


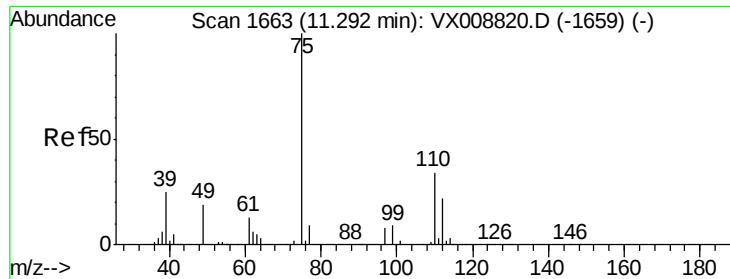
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX008933.D
Acq: 13 Apr 2019 15:45

Tgt Ion:152 Resp: 106004
Ion Ratio Lower Upper
152 100
115 59.5 43.5 130.5
150 155.1 0.0 348.8



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: 21.178 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008933.D

Acq: 13 Apr 2019 15:45

Instrument :

MSVOA_X

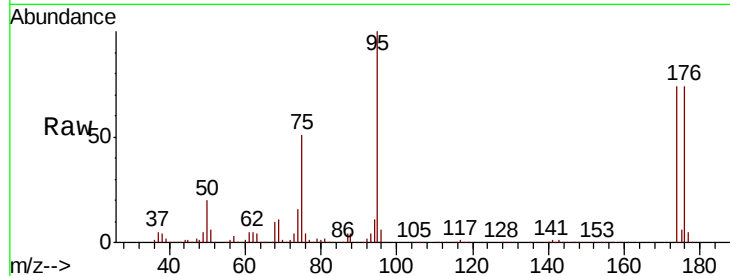
ClientSampled :

Tot Ion: 75 Resp: 61672

Ion Ratio Lower Upper

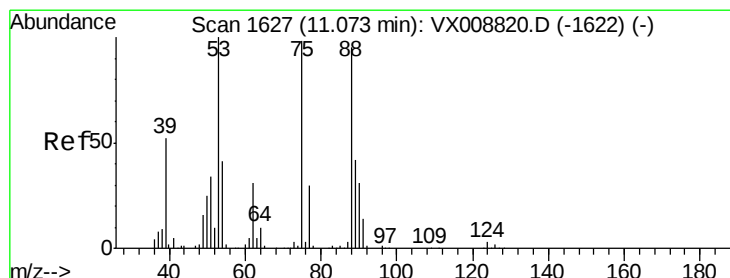
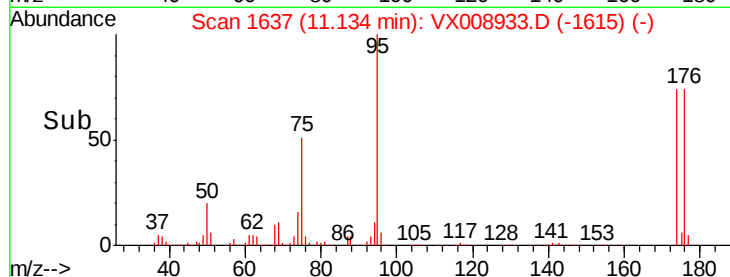
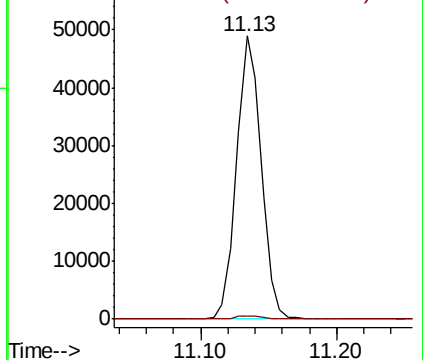
75 100

77 1.2 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 58.379 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008933.D

Acq: 13 Apr 2019 15:45

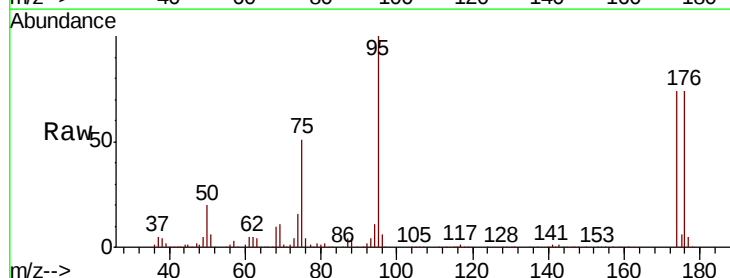
Tgt Ion: 75 Resp: 61672

Ion Ratio Lower Upper

75 100

53 0.0 81.3 121.9#

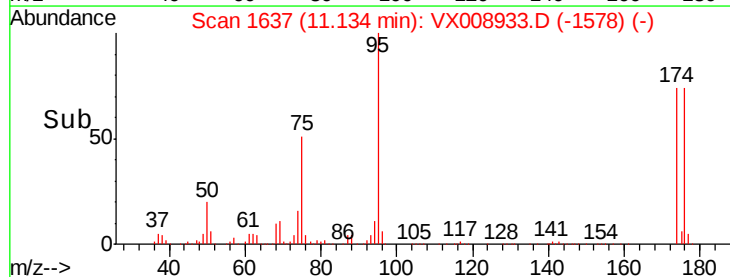
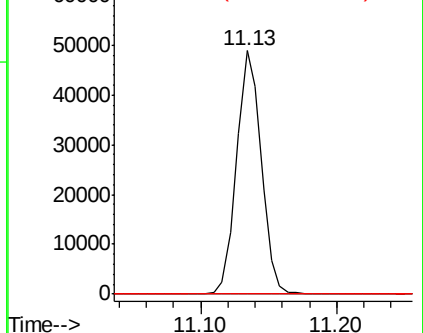
89 0.1 35.6 53.4#

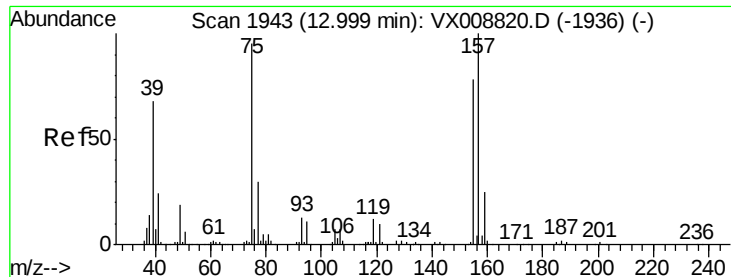


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.272 ug/l

RT: 13.19 min Scan# 1975

Delta R.T. 0.20 min

Lab File: VX008933.D

Acq: 13 Apr 2019 15:45

Instrument :

MSVOA_X

ClientSampleId :

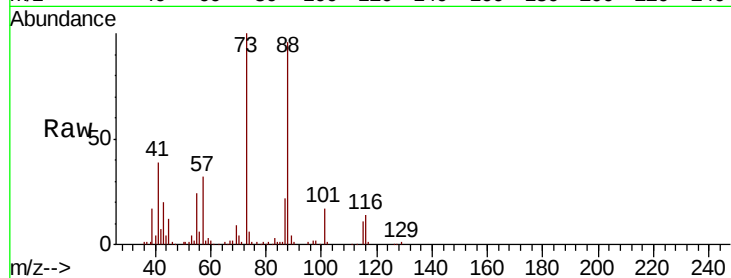
Tot Ion: 75 Resp: 200

Ion Ratio Lower Upper

75 100

155 0.0 39.9 119.6#

157 0.0 51.5 154.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

