

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081518\
 Data File : VX004103.D
 Acq On : 16 Aug 2018 05:47
 Operator : JC/MD
 Sample : J4495-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS050MW636-180814

Quant Time: Aug 16 07:19:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 13:27:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	256495	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	402781	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	382705	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	213493	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	194099	53.71	ug/l	0.00
Spiked Amount			Recovery	=	107.42%	
35) Dibromofluoromethane	5.51	113	158510	52.58	ug/l	0.00
Spiked Amount			Recovery	=	105.16%	
50) Toluene-d8	8.72	98	577833	47.28	ug/l	0.00
Spiked Amount			Recovery	=	94.56%	
62) 4-Bromofluorobenzene	11.14	95	198470	44.77	ug/l	0.00
Spiked Amount			Recovery	=	89.54%	

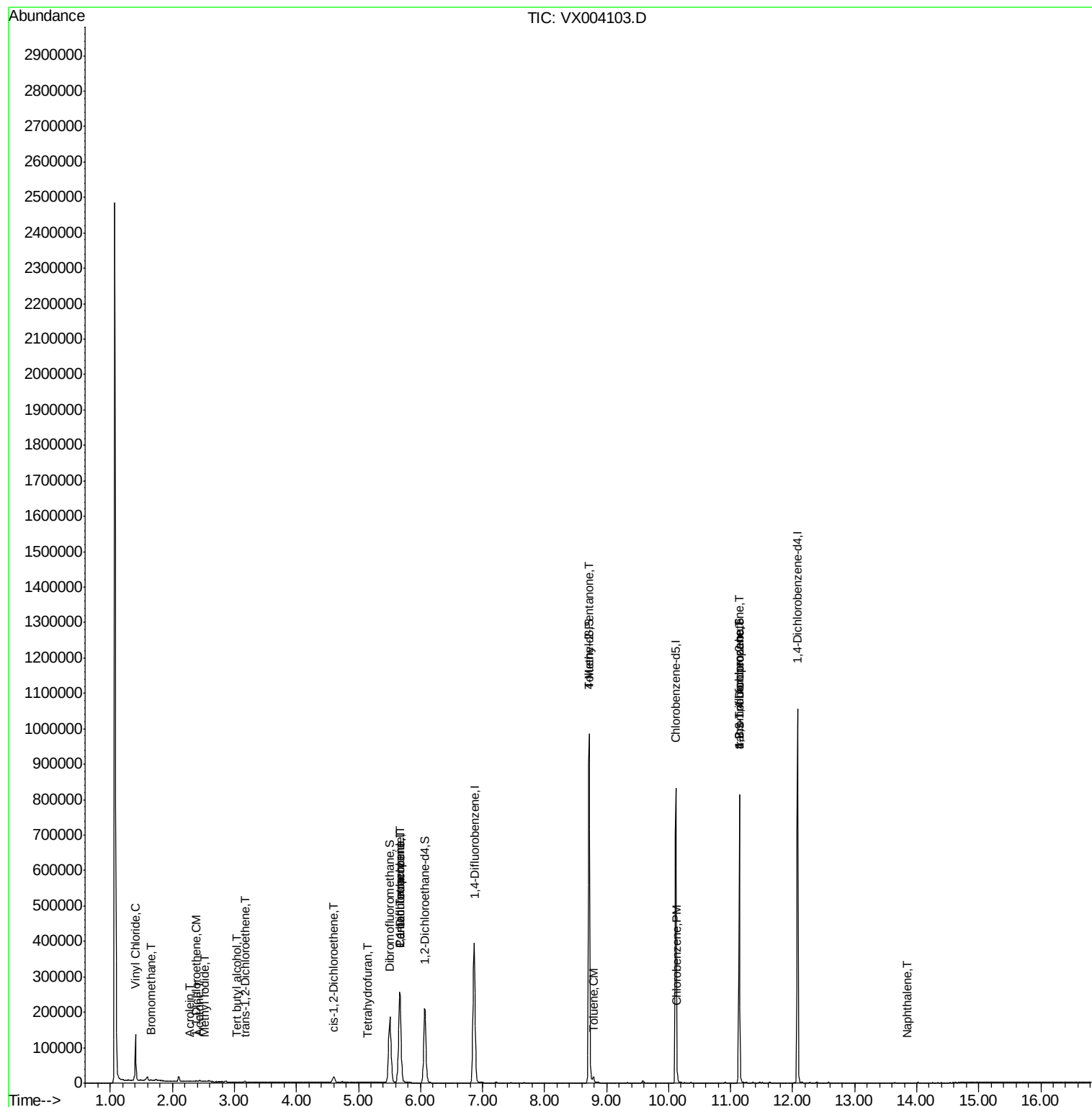
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	88009	26.55	ug/l	98
5) Bromomethane	1.65	94	820	0.31	ug/l	# 62
6) Chloroethane	1.73	64	2160	Below	Cal	98
10) Methyl Iodide	2.52	142	533	5.16	ug/l	# 86
11) Tert butyl alcohol	3.04	59	495	0.68	ug/l	# 83
12) 1,1-Dichloroethene	2.38	96	563	0.21	ug/l	93
13) Acrolein	2.29	56	120	11.18	ug/l	95
16) Acetone	2.44	43	4154	2.21	ug/l	96
20) Methylene Chloride	2.85	84	373	Below	Cal	# 78
21) trans-1,2-Dichloroethene	3.17	96	971	0.32	ug/l	82
27) cis-1,2-Dichloroethene	4.60	96	10184	2.96	ug/l	98
29) Tetrahydrofuran	5.15	42	706	0.45	ug/l	# 51
36) 1,1-Dichloropropene	5.67	75	17749	3.87	ug/l	# 49
38) Carbon Tetrachloride	5.67	117	23578	5.29	ug/l	# 16
51) 4-Methyl-2-Pentanone	8.71	43	2362	0.39	ug/l	# 1
52) Toluene	8.79	92	4803	0.55	ug/l	95
65) Chlorobenzene	10.14	112	4552	0.46	ug/l	# 82
76) 1,2,3-Trichloropropane	11.14	75	97392	22.75	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	11.14	75	97392	70.42	ug/l	# 10
95) Naphthalene	13.84	128	346	1.17	ug/l	# 69

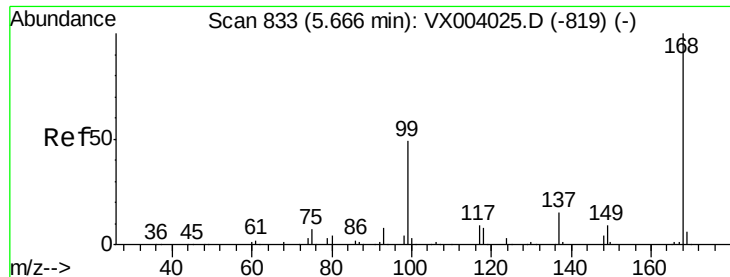
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX004103.D

Acq: 16 Aug 2018 05:47

Instrument :

MSVOA_X

ClientSampleId :

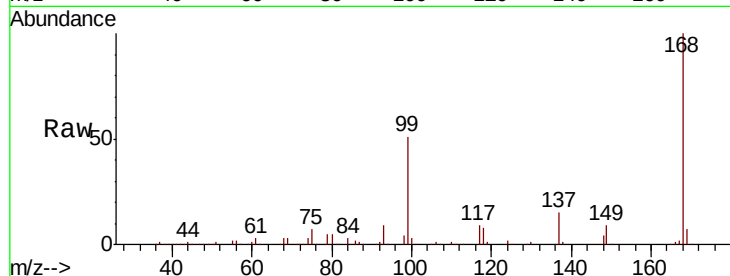
SS050MW636-180814

Tot Ion:168 Resp: 256495

Ion Ratio Lower Upper

168 100

99 50.6 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

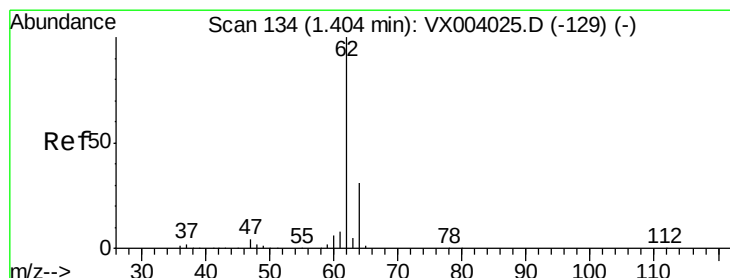
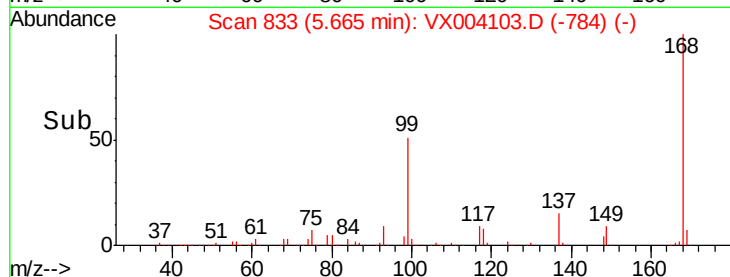
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 26.55 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX004103.D

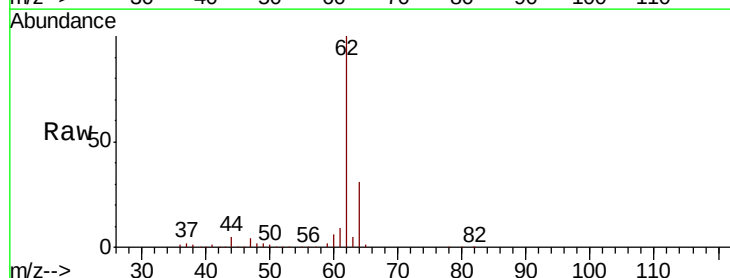
Acq: 16 Aug 2018 05:47

Tgt Ion: 62 Resp: 88009

Ion Ratio Lower Upper

62 100

64 31.2 26.0 39.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

80000

60000

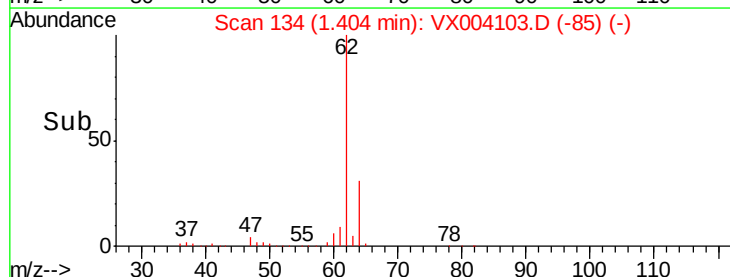
40000

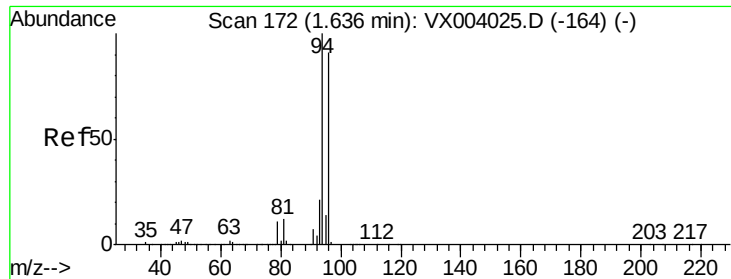
20000

0

Time-->

1.40 1.50





#5

Bromomethane

Concen: 0.31 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX004103.D

Acq: 16 Aug 2018 05:47

Instrument :

MSVOA_X

ClientSampleId :

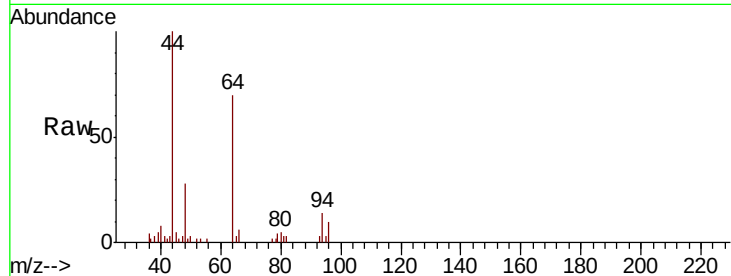
SS050MW636-180814

Tot Ion: 94 Resp: 820

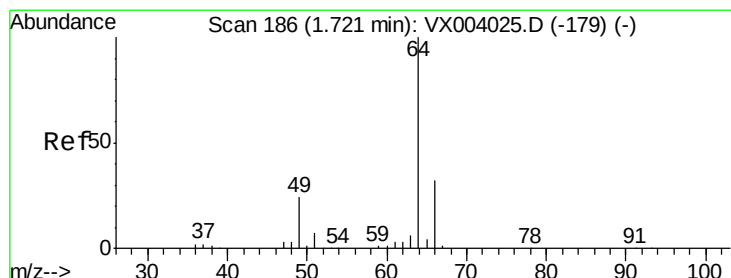
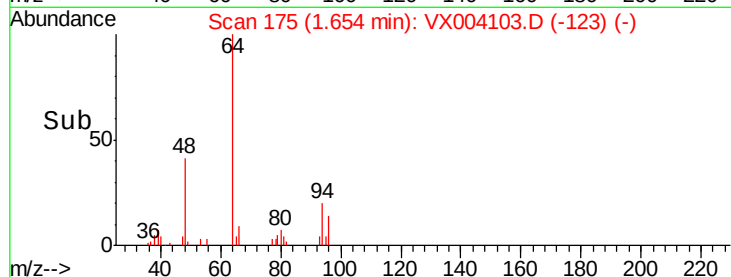
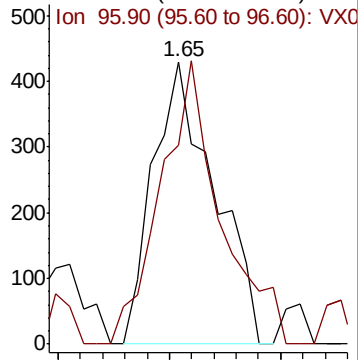
Ion Ratio Lower Upper

94 100

96 57.0 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX004103.D

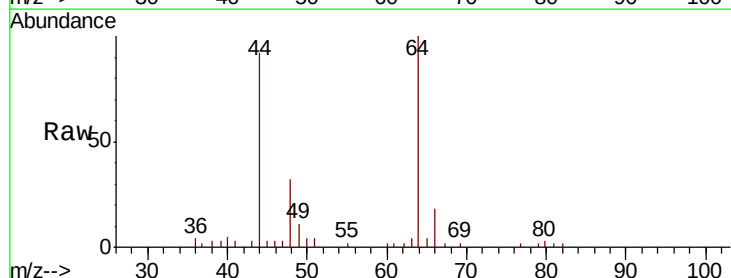
Acq: 16 Aug 2018 05:47

Tgt Ion: 64 Resp: 2160

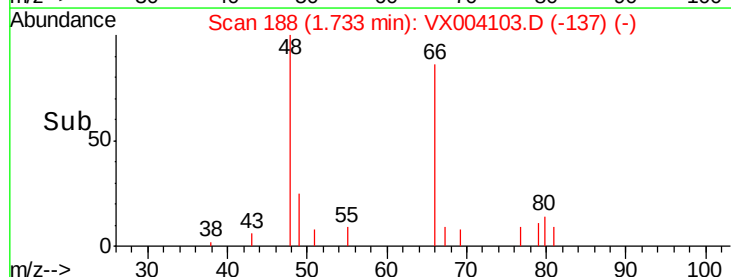
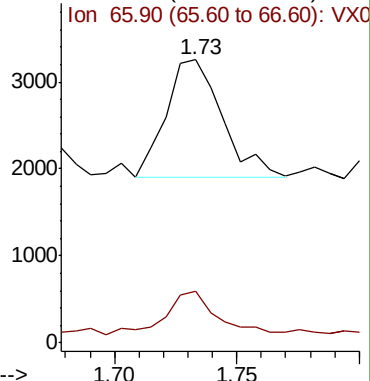
Ion Ratio Lower Upper

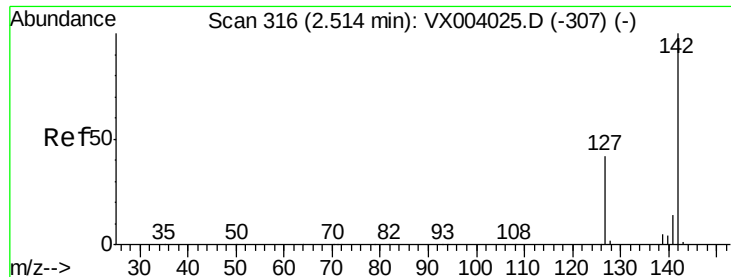
64 100

66 34.5 26.5 39.7



Abundance Ion 63.90 (63.60 to 64.60): VX0

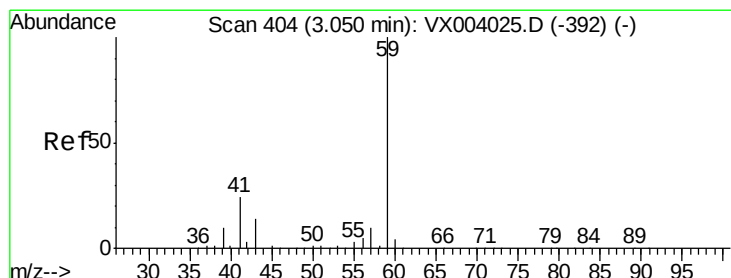
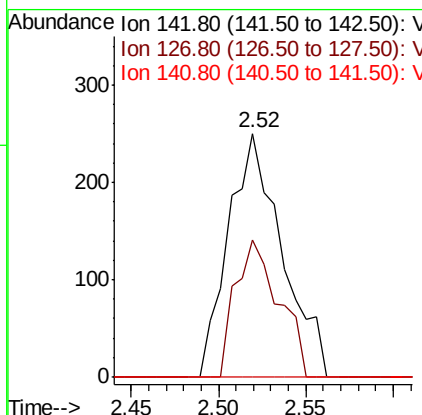
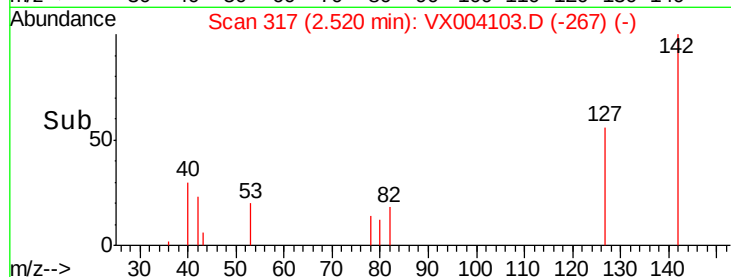
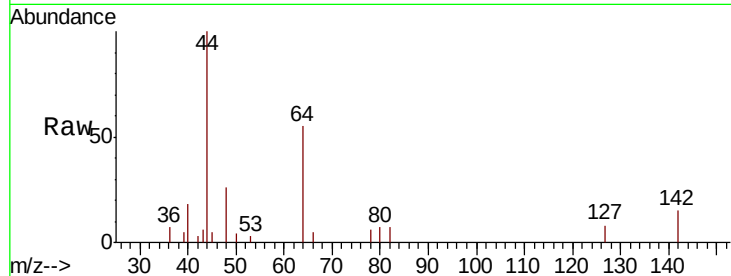




#10
Methvl Iodide
Concen: 5.16 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX004103.D
Acq: 16 Aug 2018 05:47

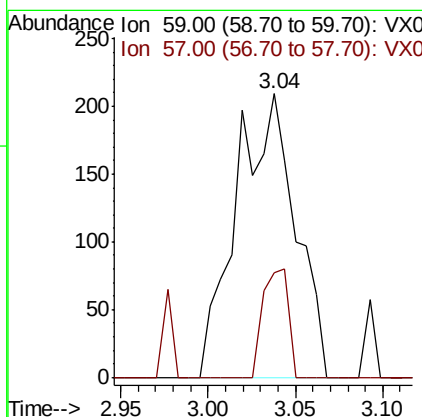
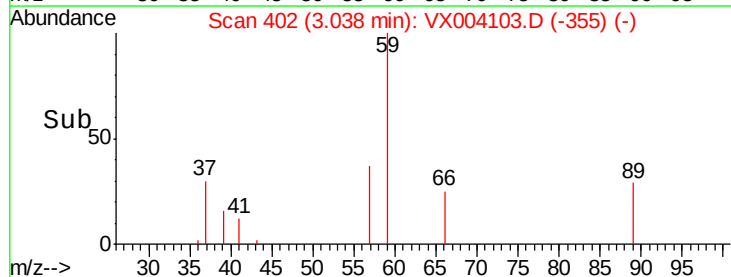
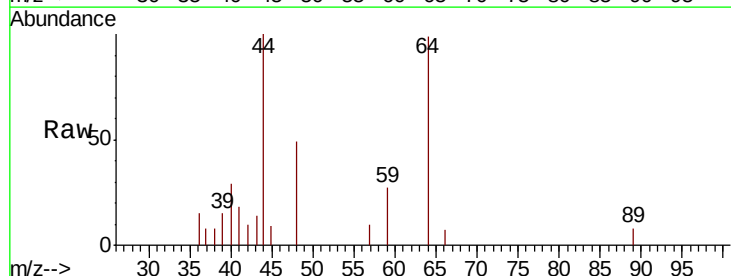
Instrument :
MSVOA_X
ClientSampleId :
SS050MW636-180814

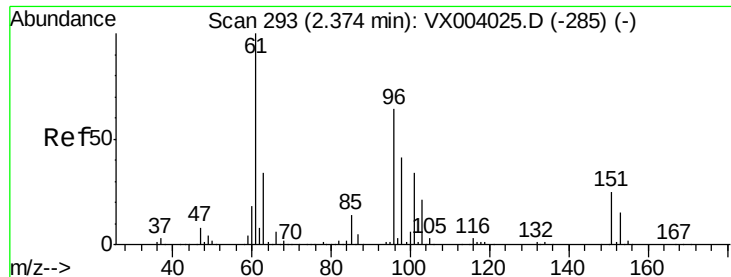
Tot Ion:142 Resp: 533
Ion Ratio Lower Upper
142 100
127 45.6 33.1 49.7
141 0.0 11.1 16.7#



#11
Tert butyl alcohol
Concen: 0.68 ug/l
RT: 3.04 min Scan# 402
Delta R.T. -0.01 min
Lab File: VX004103.D
Acq: 16 Aug 2018 05:47

Tgt Ion: 59 Resp: 495
Ion Ratio Lower Upper
59 100
57 16.4 8.1 12.1#

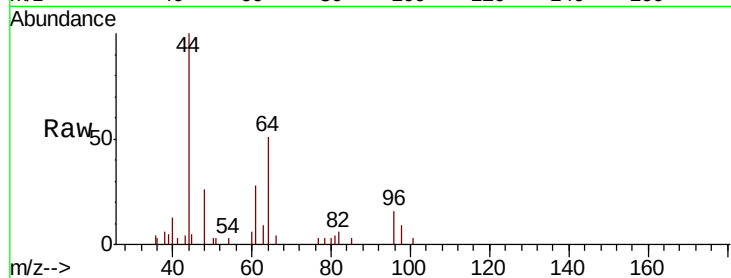




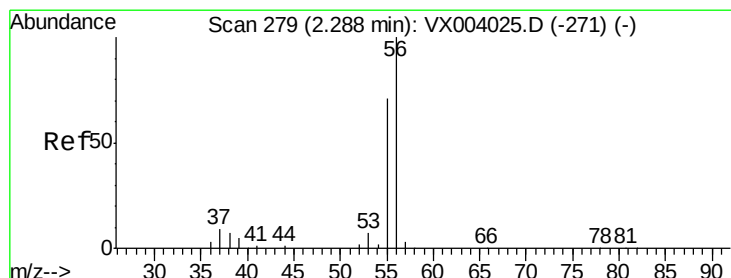
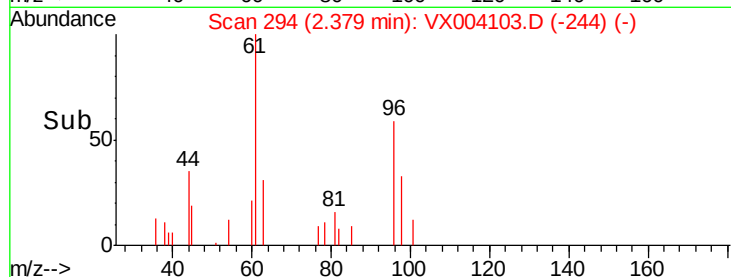
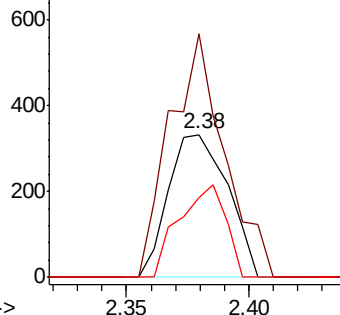
#12
 1,1-Dichloroethene
 Concen: 0.21 ug/l
 RT: 2.38 min Scan# 294
 Delta R.T. 0.01 min
 Lab File: VX004103.D
 Acq: 16 Aug 2018 05:47

Instrument :
 MSVOA_X
 ClientSampleId :
 SS050MW636-180814

Tot Ion	Ratio	Lower	Upper
96	100		
61	170.8	131.3	196.9
98	55.7	51.8	77.6

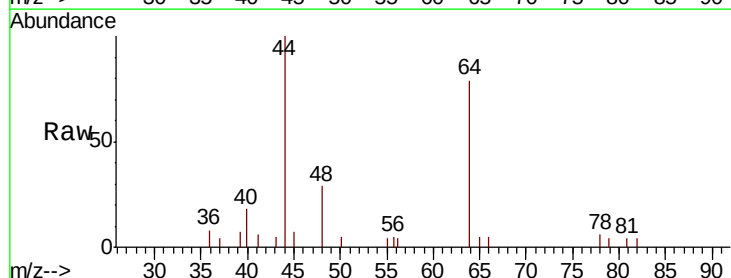


Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0

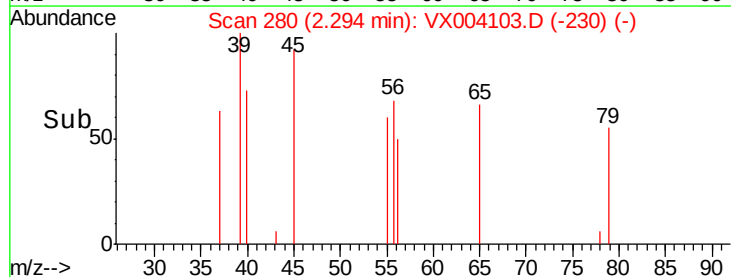
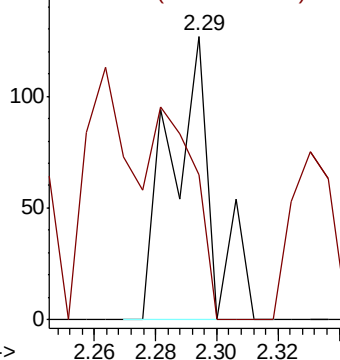


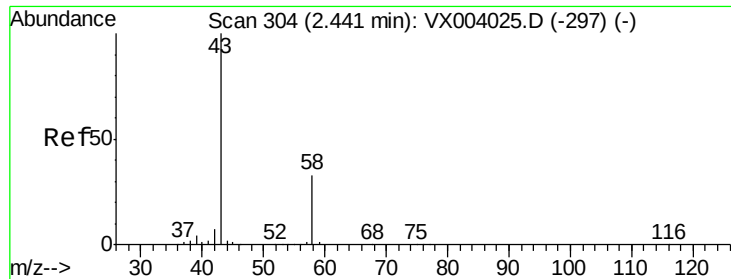
#13
 Acrolein
 Concen: 11.18 ug/l
 RT: 2.29 min Scan# 280
 Delta R.T. 0.01 min
 Lab File: VX004103.D
 Acq: 16 Aug 2018 05:47

Tgt Ion	Ratio	Lower	Upper
56	100		
55	74.2	56.1	84.1



Abundance Ion 56.00 (55.70 to 56.70): VX0
 Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 2.21 ua/l

RT: 2.44 min Scan# 304

Delta R.T. -0.00 min

Lab File: VX004103.D

Acq: 16 Aug 2018 05:47

Instrument :

MSVOA_X

ClientSampleId :

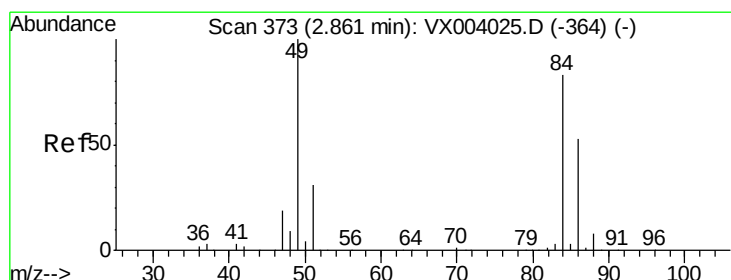
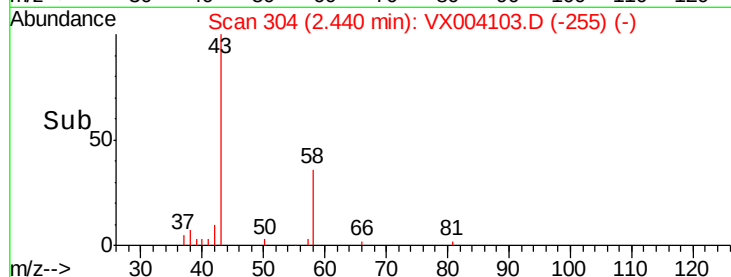
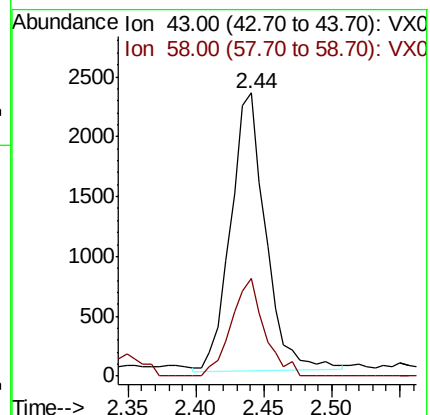
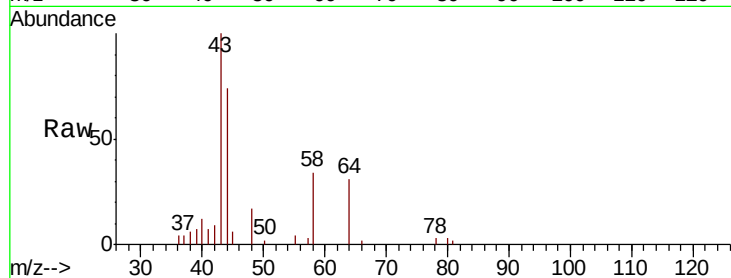
SS050MW636-180814

Tot Ion: 43 Resp: 4154

Ion Ratio Lower Upper

43 100

58 35.4 26.4 39.6



#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 372

Delta R.T. -0.01 min

Lab File: VX004103.D

Acq: 16 Aug 2018 05:47

Tgt Ion: 84 Resp: 373

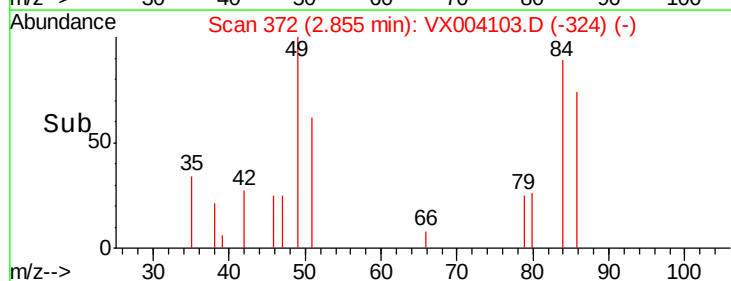
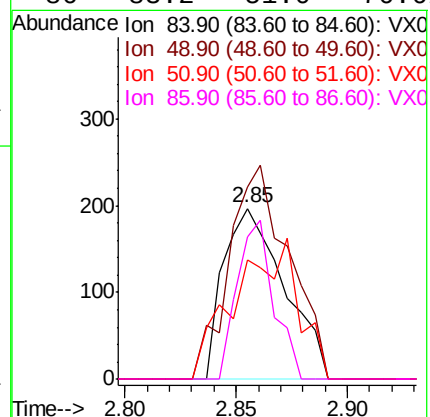
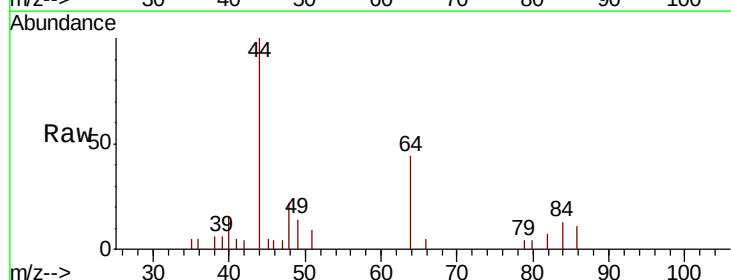
Ion Ratio Lower Upper

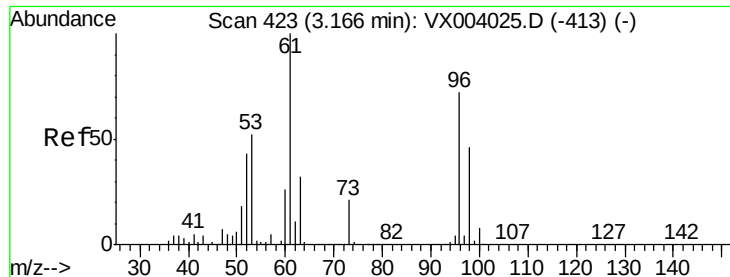
84 100

49 112.2 98.9 148.3

51 69.5 29.9 44.9#

86 83.2 51.0 76.6#





#21

trans-1,2-Dichloroethene

Concen: 0.32 ug/l

RT: 3.17 min Scan# 423

Delta R.T. -0.00 min

Lab File: VX004103.D

Acq: 16 Aug 2018 05:47

Instrument :

MSVOA_X

ClientSampleId :

SS050MW636-180814

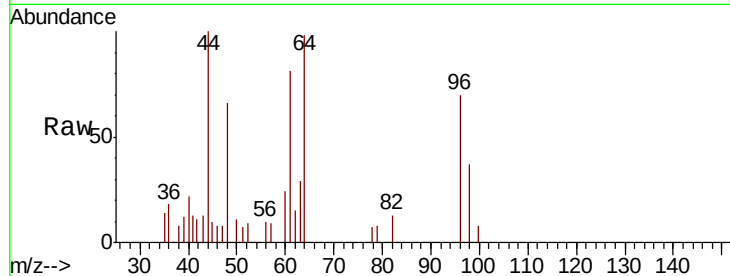
Tot Ion: 96 Resp: 971

Ion Ratio Lower Upper

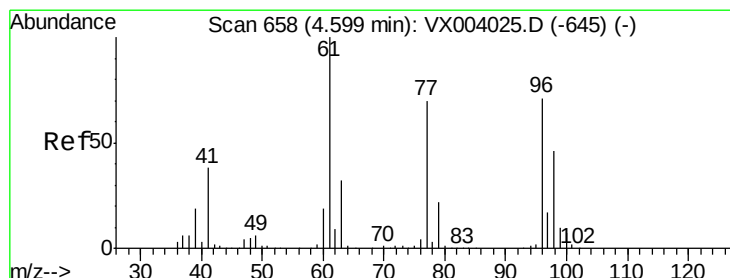
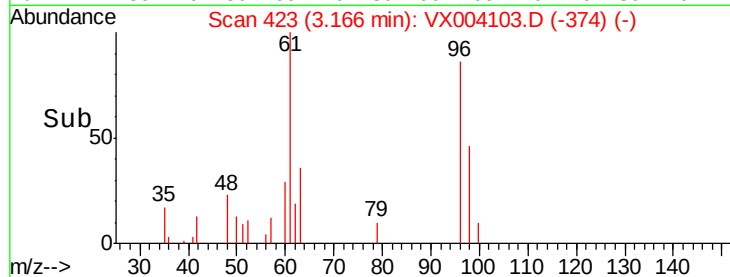
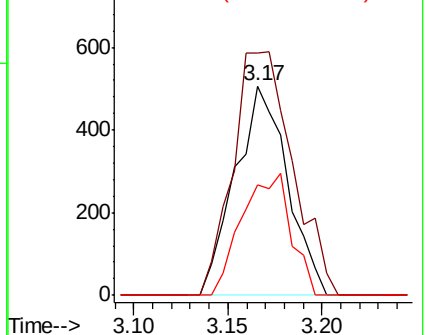
96 100

61 116.2 111.8 167.6

98 53.0 51.8 77.6



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



#27

cis-1,2-Dichloroethene

Concen: 2.96 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX004103.D

Acq: 16 Aug 2018 05:47

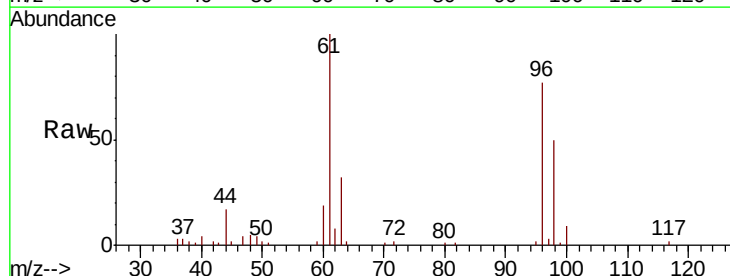
Tgt Ion: 96 Resp: 10184

Ion Ratio Lower Upper

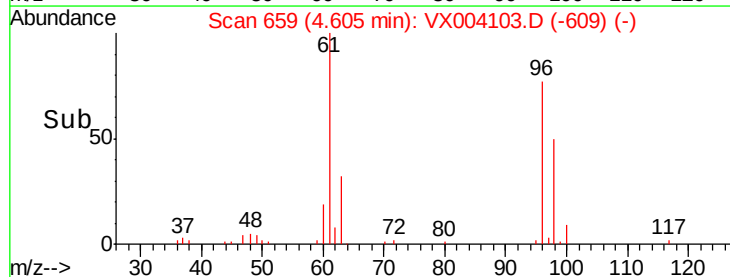
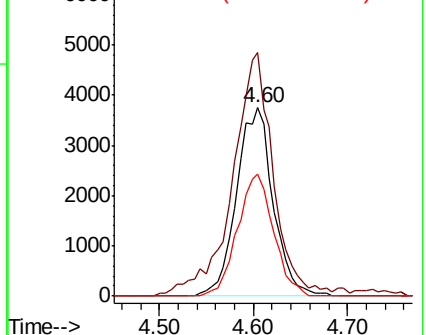
96 100

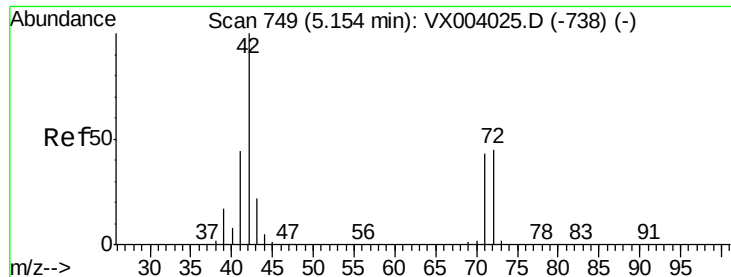
61 144.2 0.0 293.0

98 63.6 0.0 131.8



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: 0.45 ug/l

RT: 5.15 min Scan# 749

Delta R.T. -0.00 min

Lab File: VX004103.D

Acq: 16 Aug 2018 05:47

Instrument :

MSVOA_X

ClientSampleId :

SS050MW636-180814

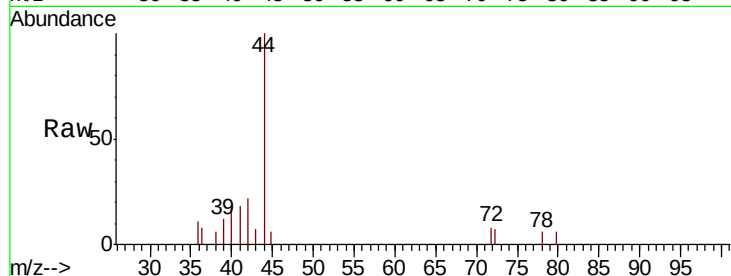
Tot Ion: 42 Resp: 706

Ion Ratio Lower Upper

42 100

72 24.1 37.7 56.5#

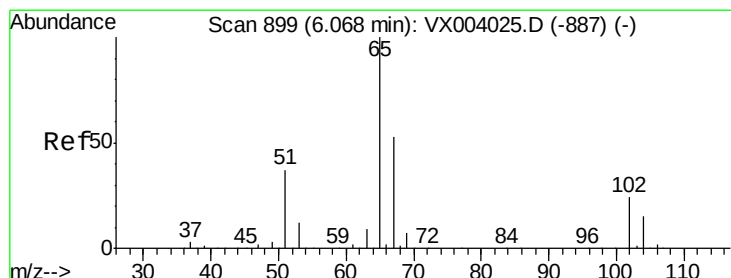
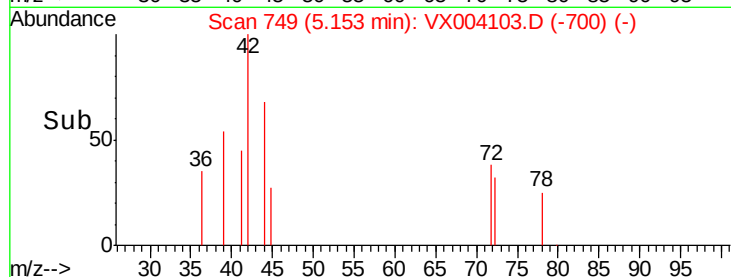
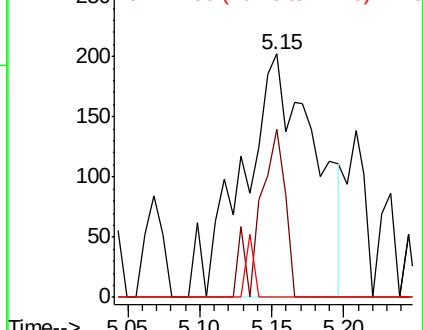
71 2.7 35.0 52.6#



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: 53.71 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.00 min

Lab File: VX004103.D

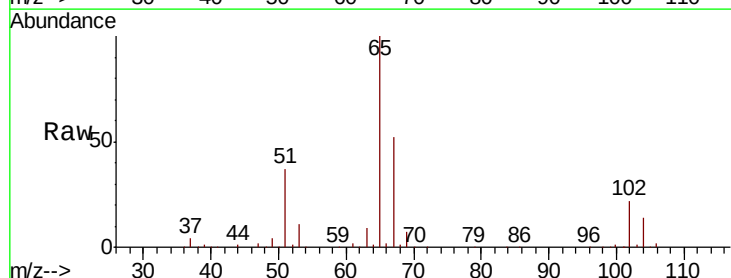
Acq: 16 Aug 2018 05:47

Tgt Ion: 65 Resp: 194099

Ion Ratio Lower Upper

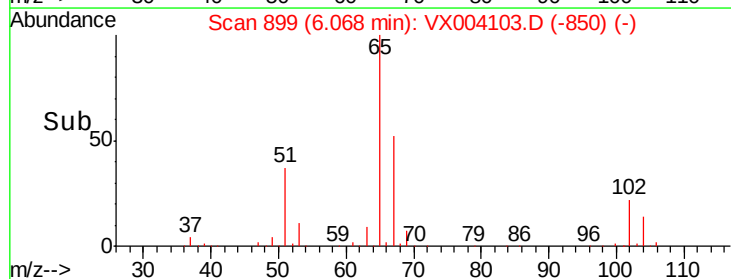
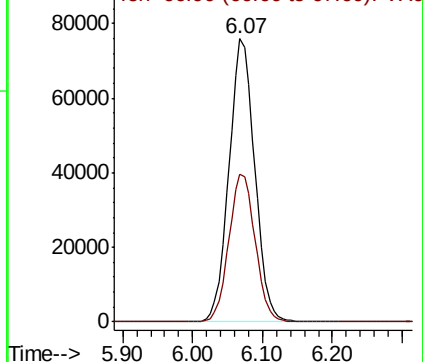
65 100

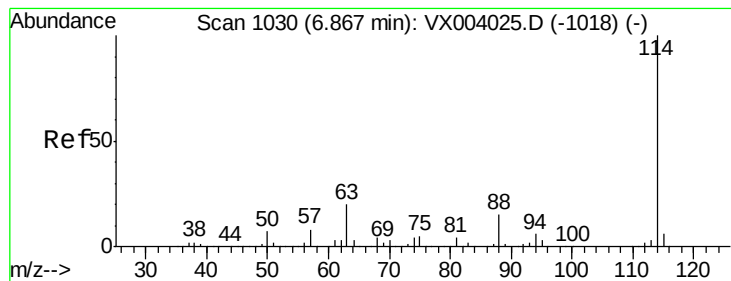
67 53.2 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX004103.D

Acq: 16 Aug 2018 05:47

Instrument :

MSVOA_X

ClientSampleId :

SS050MW636-180814

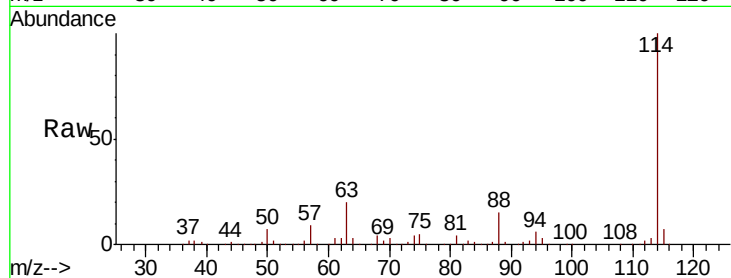
Tot Ion:114 Resp: 402781

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.0

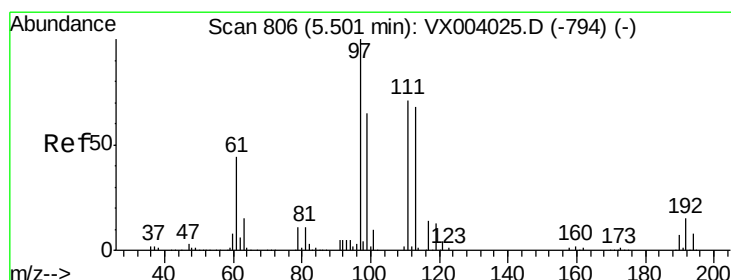
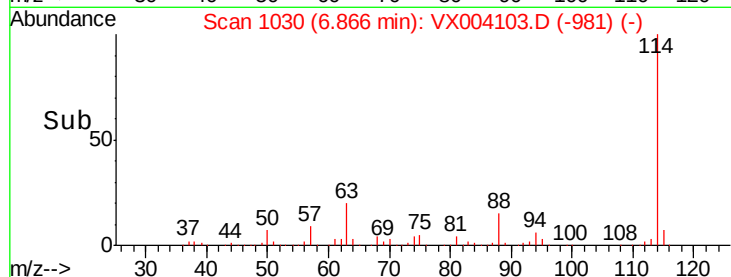
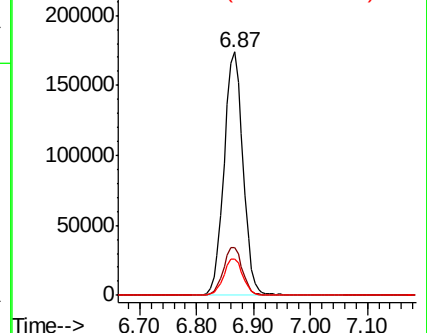
88 15.0 0.0 32.0



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: 52.58 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX004103.D

Acq: 16 Aug 2018 05:47

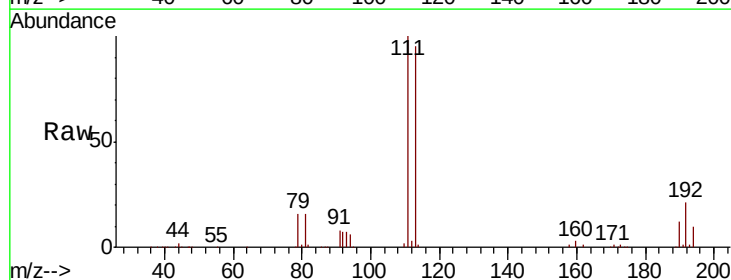
Tgt Ion:113 Resp: 158510

Ion Ratio Lower Upper

113 100

111 101.8 82.0 123.0

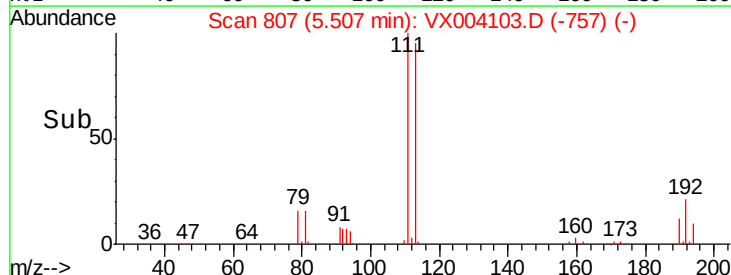
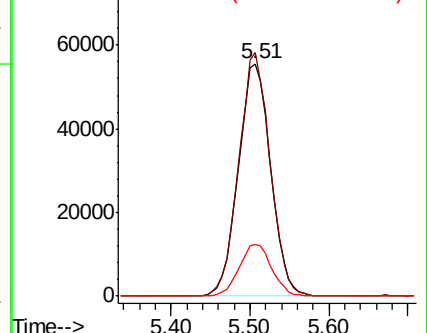
192 22.5 19.0 28.4

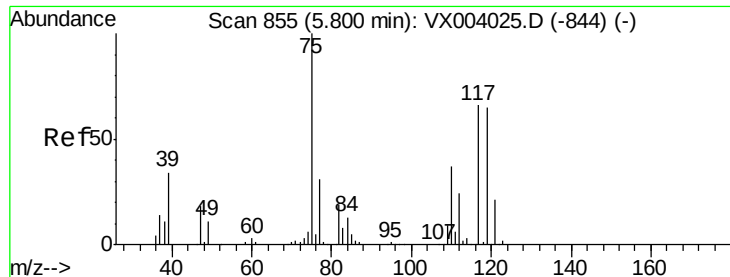


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

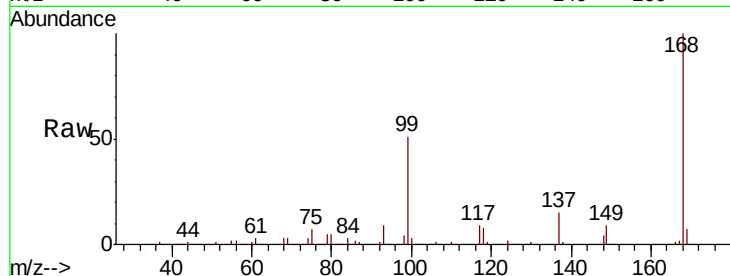




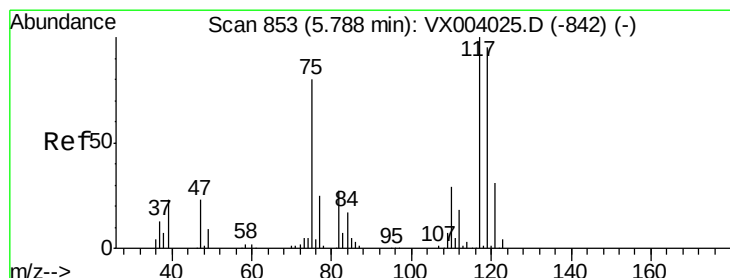
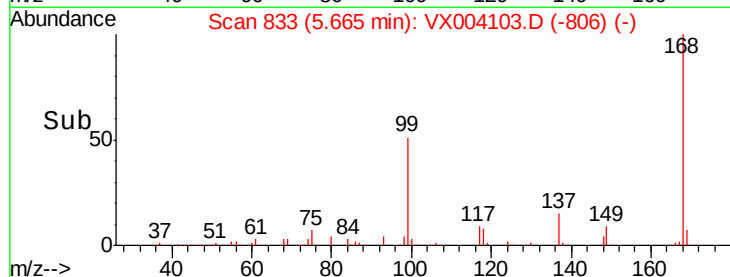
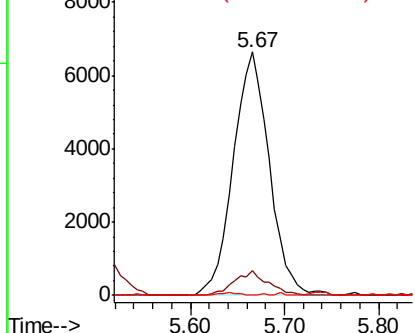
#36
 1,1-Dichloropropene
 Concen: 3.87 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX004103.D
 Acq: 16 Aug 2018 05:47

Instrument :
 MSVOA_X
 ClientSampleId :
 SS050MW636-180814

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.5	18.2	54.6#
77	0.1	25.0	37.4#

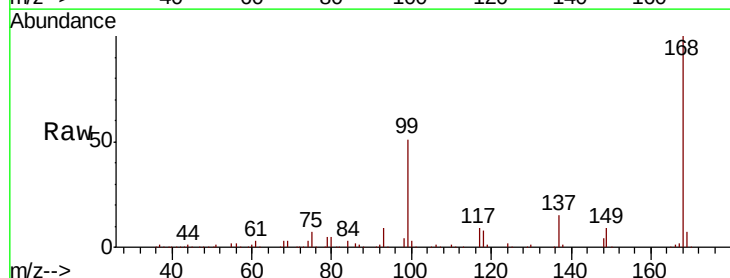


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

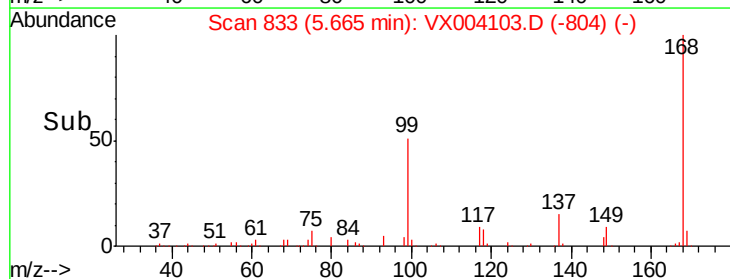
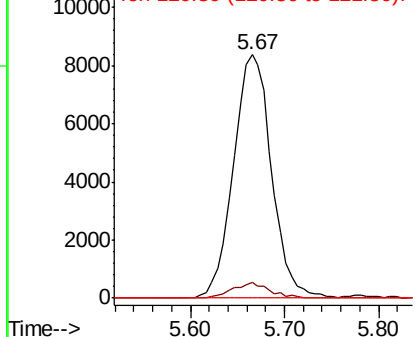


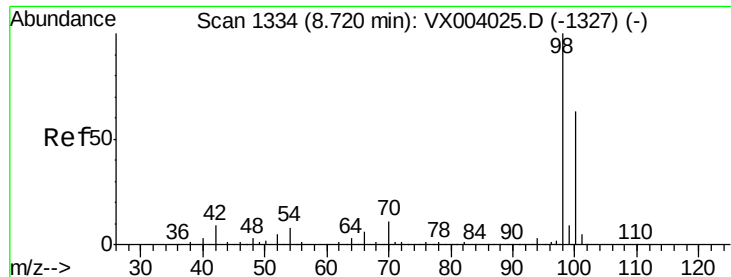
#38
 Carbon Tetrachloride
 Concen: 5.29 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX004103.D
 Acq: 16 Aug 2018 05:47

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.5	79.5	119.3#
121	0.0	25.0	37.4#



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

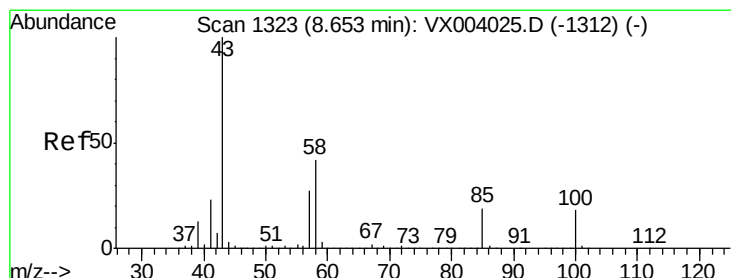
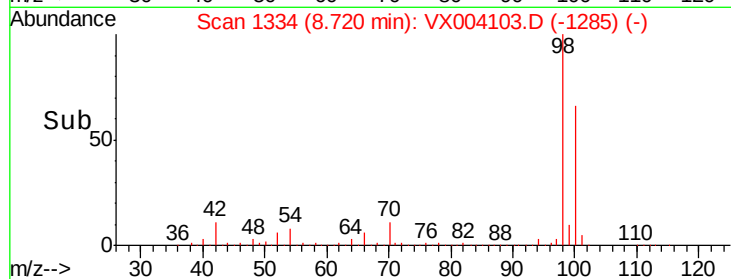
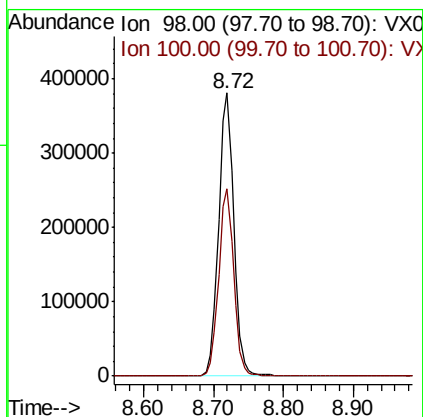
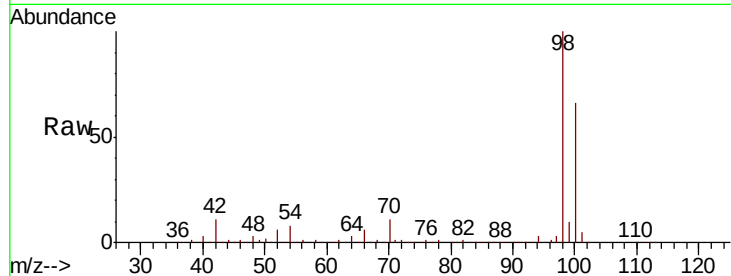




#50
Toluene-d8
Concen: 47.28 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX004103.D
Acq: 16 Aug 2018 05:47

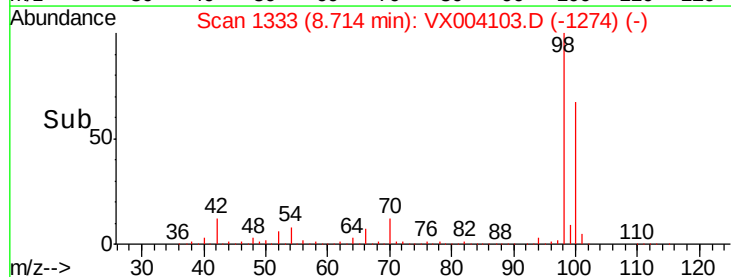
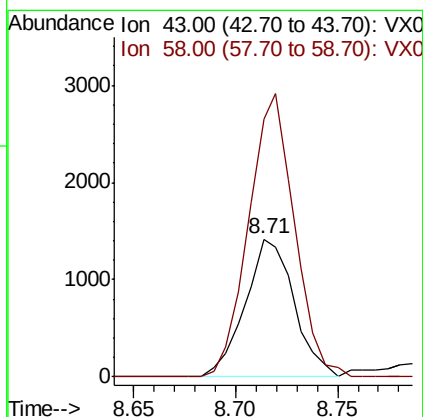
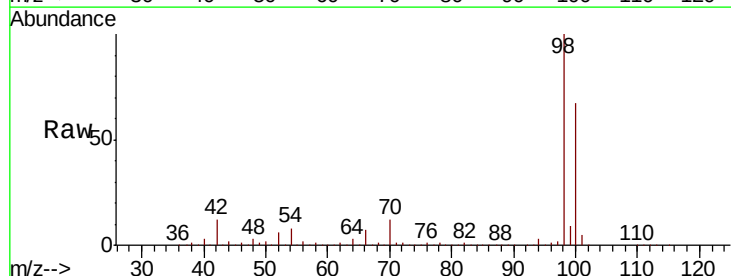
Instrument :
MSVOA_X
ClientSampleId :
SS050MW636-180814

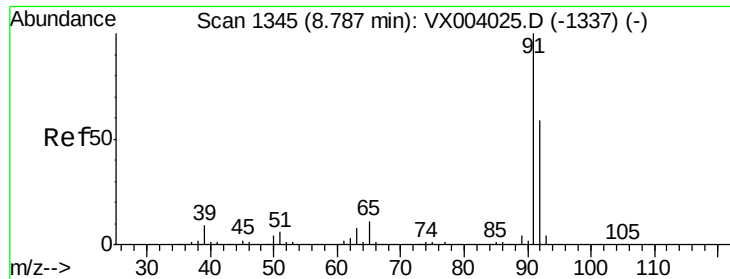
Tot Ion: 98 Resp: 577833
Ion Ratio Lower Upper
98 100
100 65.6 53.3 79.9



#51
4-Methyl-2-Pentanone
Concen: 0.39 ug/l
RT: 8.71 min Scan# 1333
Delta R.T. 0.06 min
Lab File: VX004103.D
Acq: 16 Aug 2018 05:47

Tgt Ion: 43 Resp: 2362
Ion Ratio Lower Upper
43 100
58 192.1 33.0 49.6#





#52

Toluene

Concen: 0.55 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. -0.00 min

Lab File: VX004103.D

Acq: 16 Aug 2018 05:47

Instrument :

MSVOA_X

ClientSampleId :

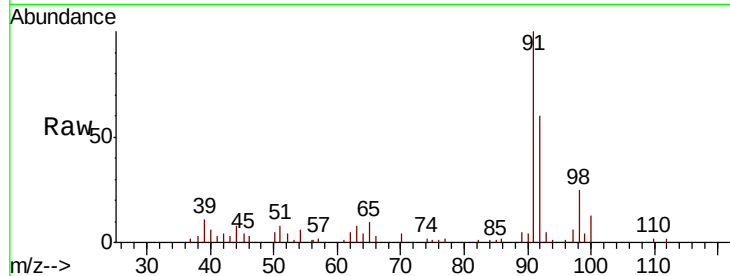
SS050MW636-180814

Tot Ion: 92 Resp: 4803

Ion Ratio Lower Upper

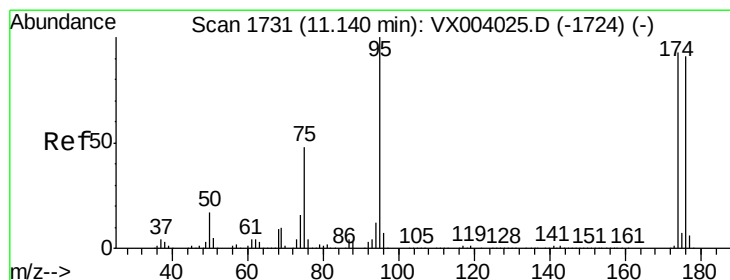
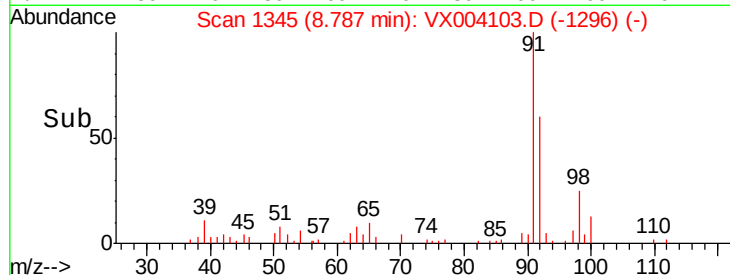
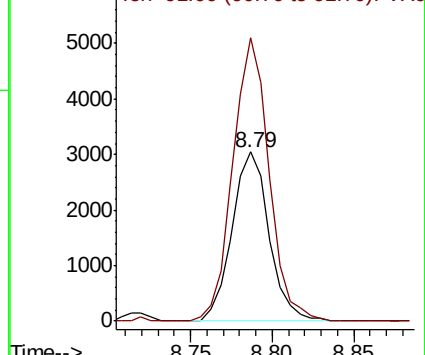
92 100

91 163.6 136.1 204.1



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 44.77 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004103.D

Acq: 16 Aug 2018 05:47

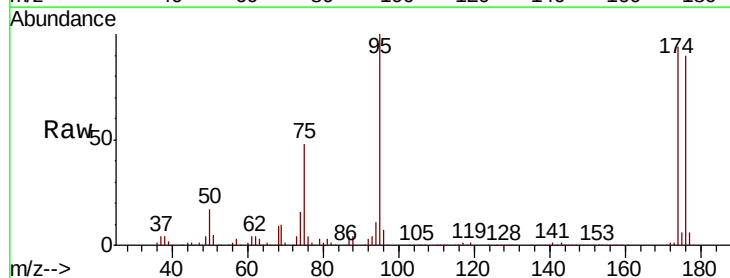
Tgt Ion: 95 Resp: 198470

Ion Ratio Lower Upper

95 100

174 92.8 0.0 182.8

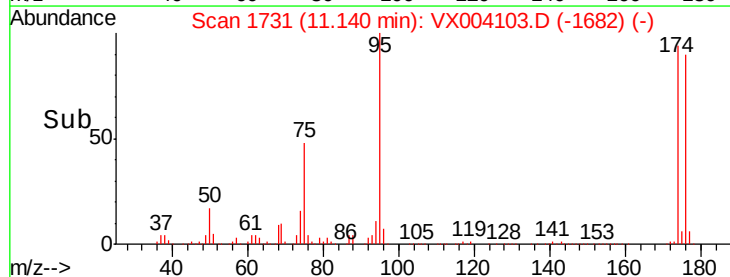
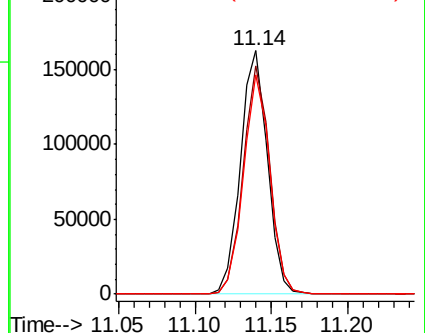
176 88.7 0.0 179.0

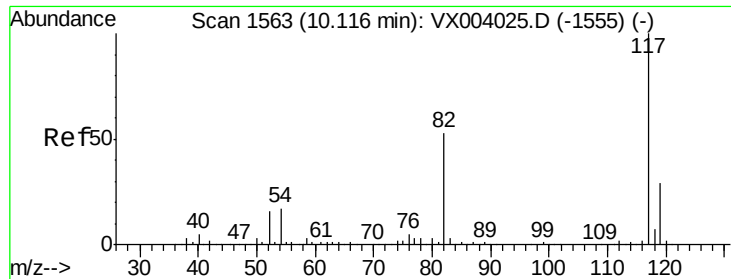


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

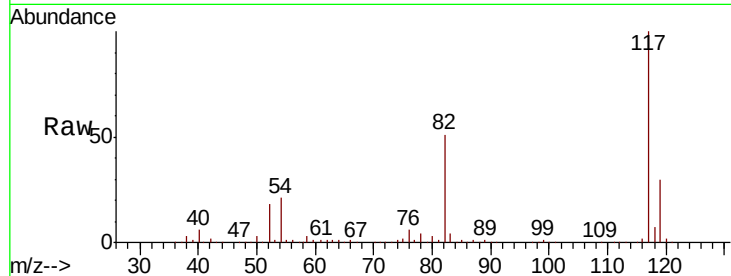




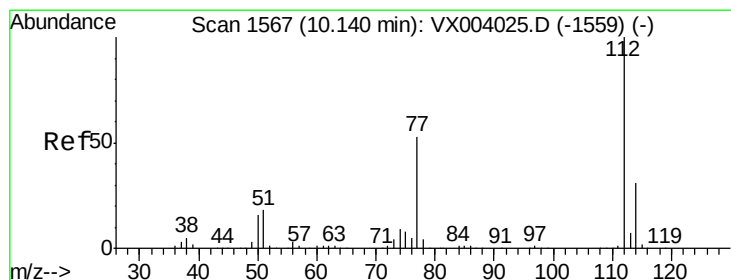
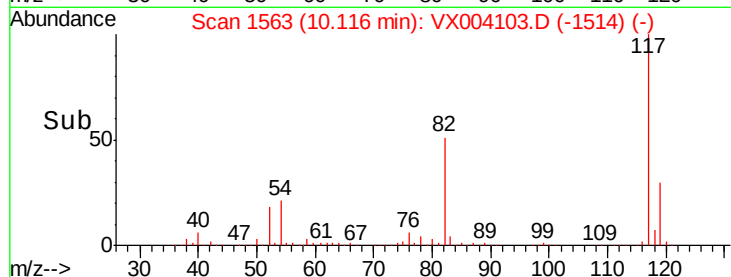
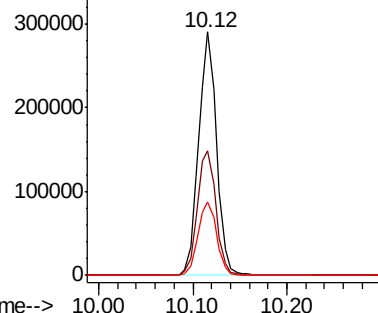
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004103.D
Acq: 16 Aug 2018 05:47

Instrument :
MSVOA_X
ClientSampleId :
SS050MW636-180814

Tot Ion:117 Resp: 382705
Ion Ratio Lower Upper
117 100
82 51.0 45.4 68.0
119 30.3 26.6 40.0

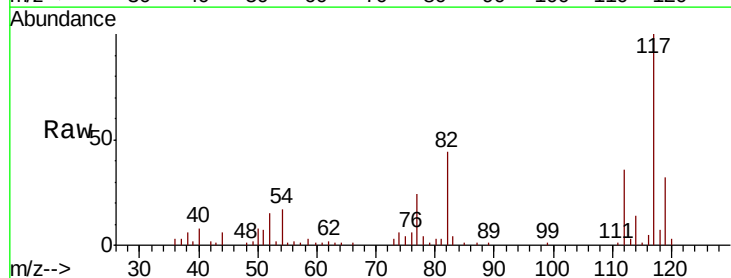


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

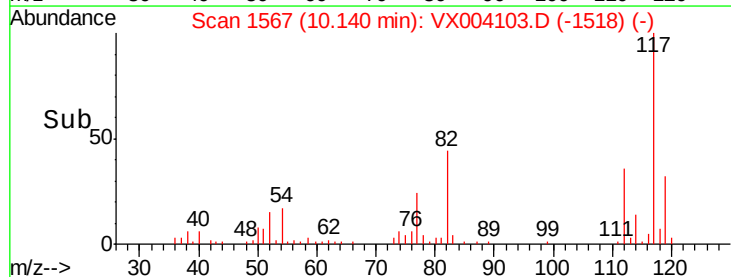
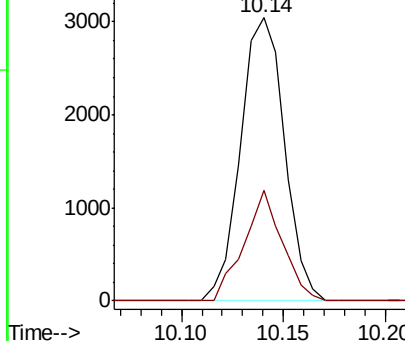


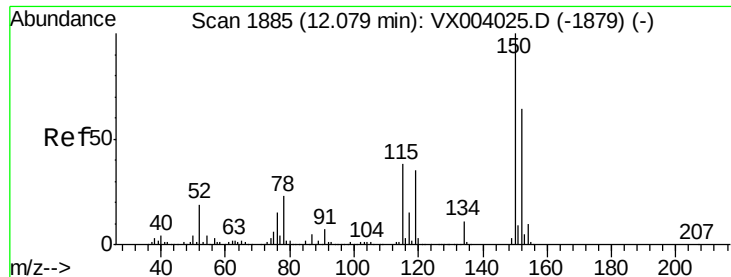
#65
Chlorobenzene
Concen: 0.46 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VX004103.D
Acq: 16 Aug 2018 05:47

Tgt Ion:112 Resp: 4552
Ion Ratio Lower Upper
112 100
114 39.0 23.6 35.4#



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: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004103.D

Acq: 16 Aug 2018 05:47

Instrument :

MSVOA_X

ClientSampleId :

SS050MW636-180814

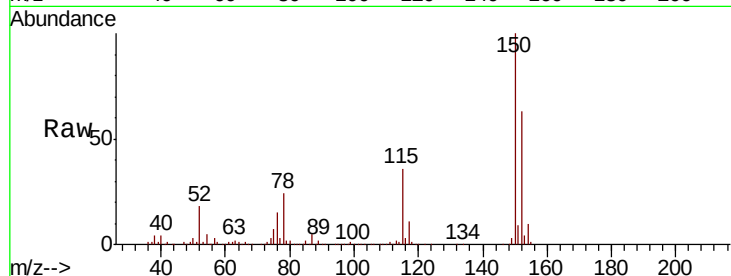
Tot Ion:152 Resp: 213493

Ion Ratio Lower Upper

152 100

115 55.3 39.1 117.3

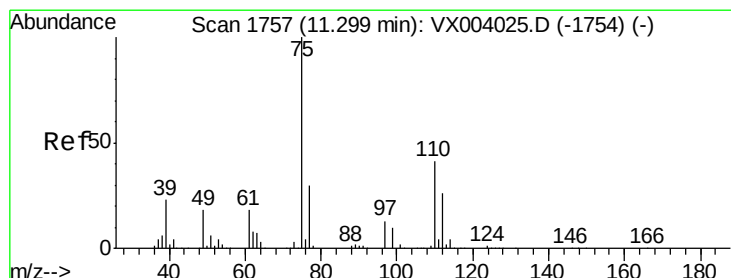
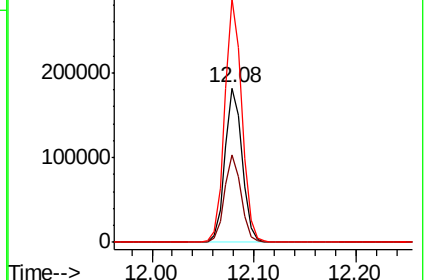
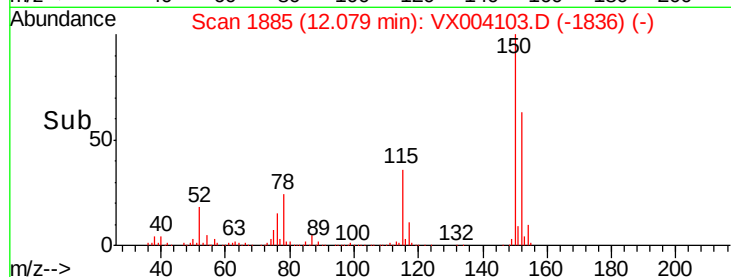
150 156.2 0.0 349.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.75 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004103.D

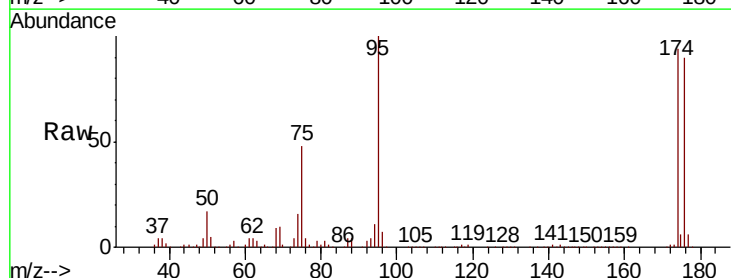
Acq: 16 Aug 2018 05:47

Tgt Ion: 75 Resp: 97392

Ion Ratio Lower Upper

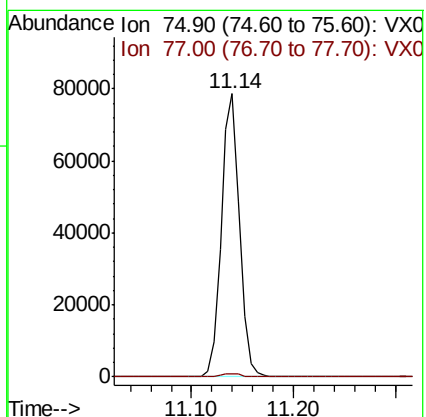
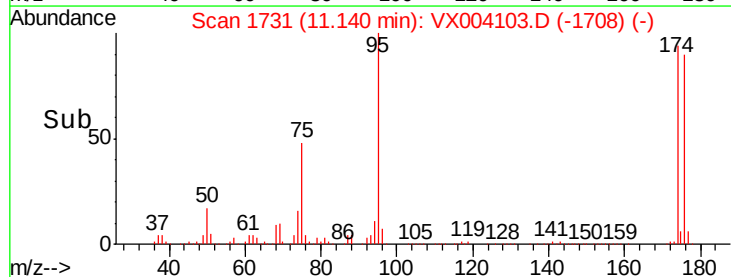
75 100

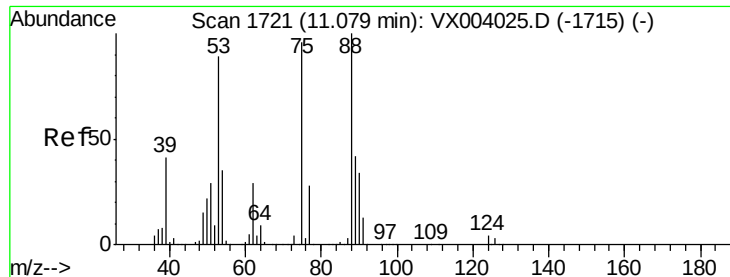
77 1.3 20.8 62.5#



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: 70.42 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX004103.D

Acq: 16 Aug 2018 05:47

Instrument :

MSVOA_X

ClientSampleId :

SS050MW636-180814

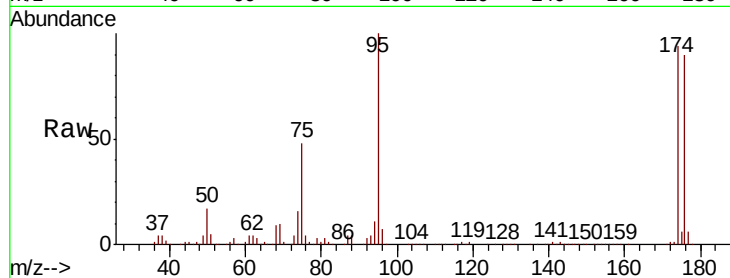
Tot Ion: 75 Resp: 97392

Ion Ratio Lower Upper

75 100

53 0.3 80.3 120.5#

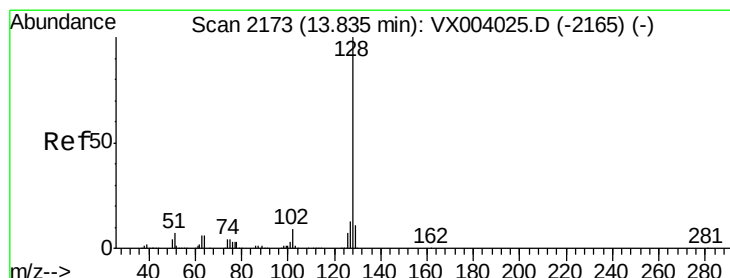
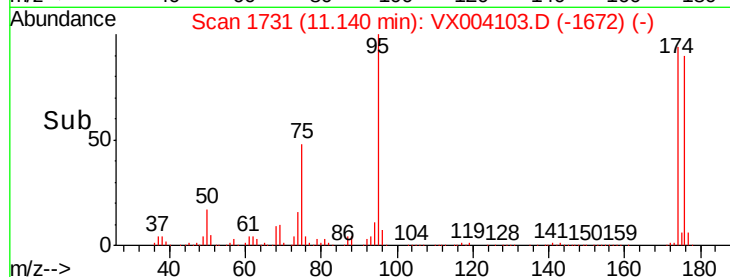
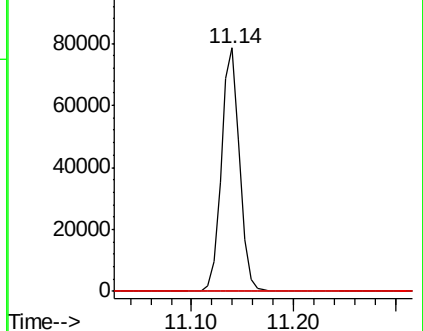
89 0.0 37.8 56.8#



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



#95

Naphthalene

Concen: 1.17 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.01 min

Lab File: VX004103.D

Acq: 16 Aug 2018 05:47

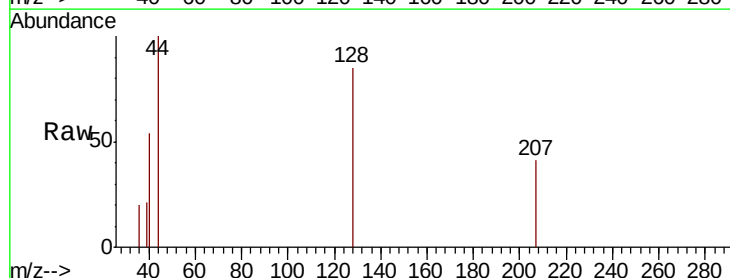
Tgt Ion: 128 Resp: 346

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

