

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052019\
 Data File : VX009736.D
 Acq On : 20 May 2019 19:10
 Operator : JC/SP
 Sample : K2910-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S73-0234

Quant Time: May 21 07:42:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	169240	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	267927	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	232591	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	94711	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	114097	49.39	ug/l	0.00
Spiked Amount			Recovery	=	98.78%	
35) Dibromofluoromethane	5.50	113	82377	48.91	ug/l	0.00
Spiked Amount			Recovery	=	97.82%	
50) Toluene-d8	8.71	98	339486	49.92	ug/l	0.00
Spiked Amount			Recovery	=	99.84%	
62) 4-Bromofluorobenzene	11.13	95	106995	43.30	ug/l	0.00
Spiked Amount			Recovery	=	86.60%	

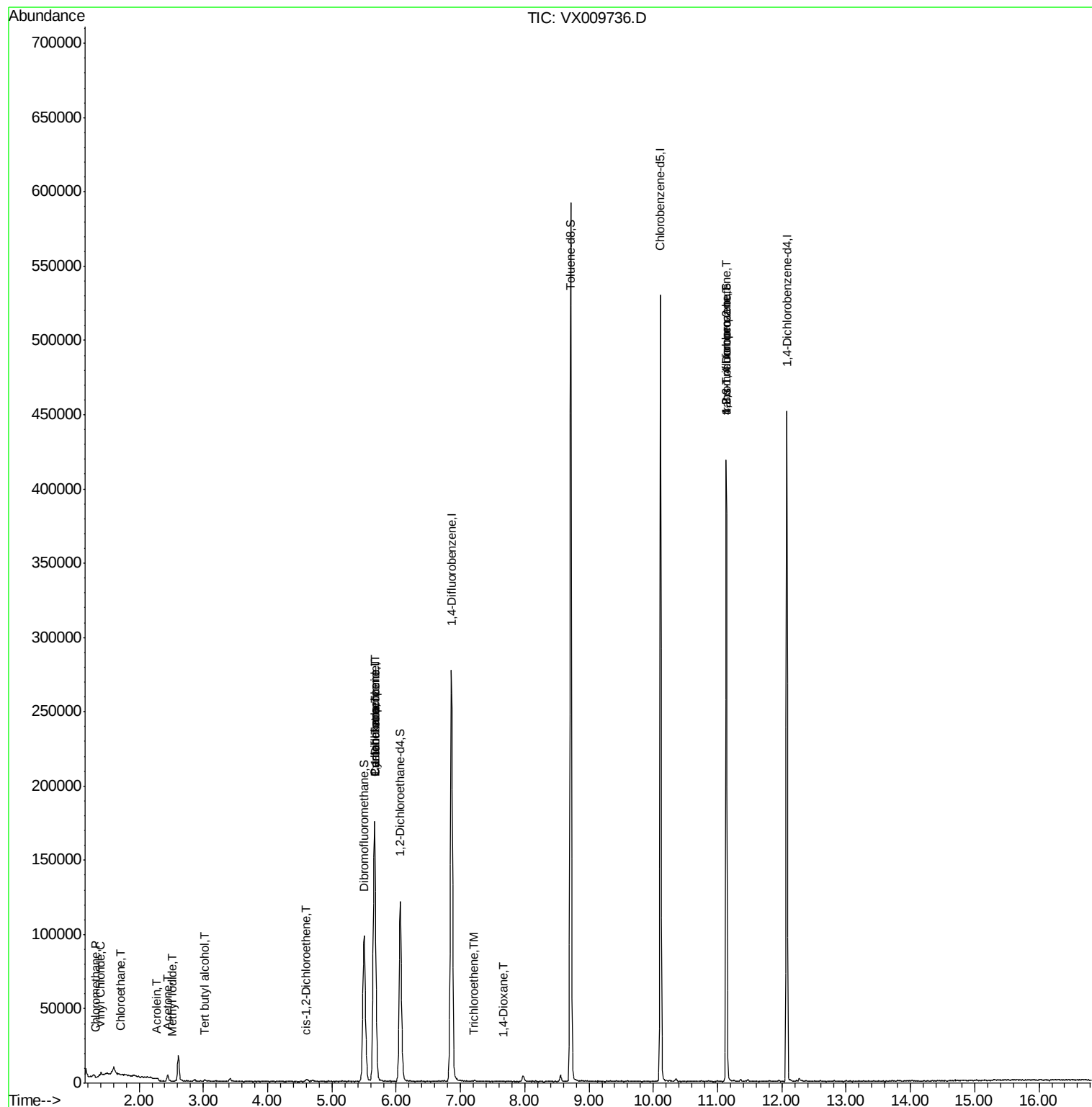
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	590	0.277	ug/l	94
4) Vinyl Chloride	1.41	62	920	0.443	ug/l #	60
6) Chloroethane	1.72	64	417	0.313	ug/l #	43
10) Methyl Iodide	2.52	142	205	4.695	ug/l #	42
11) Tert butyl alcohol	3.01	59	390	0.729	ug/l #	73
13) Acrolein	2.28	56	180	0.372	ug/l #	44
16) Acetone	2.45	43	4710	3.797	ug/l	96
27) cis-1,2-Dichloroethene	4.59	96	605	0.294	ug/l	85
28) Bromochloromethane	5.01	49	24	Below Cal	#	20
31) Cyclohexane	5.66	56	3796	1.111	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13720	5.510	ug/l #	50
38) Carbon Tetrachloride	5.67	117	16401	7.250	ug/l #	15
44) Trichloroethene	7.21	130	390	0.209	ug/l	75
49) 1,4-Dioxane	7.66	88	20	0.358	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	55416	25.224	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	55416	64.539	ug/l #	10

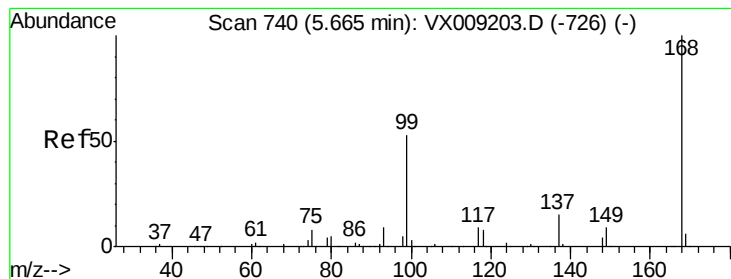
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu May 09 07:31:15 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009736.D

Acq: 20 May 2019 19:10

Instrument :

MSVOA_X

ClientSampleId :

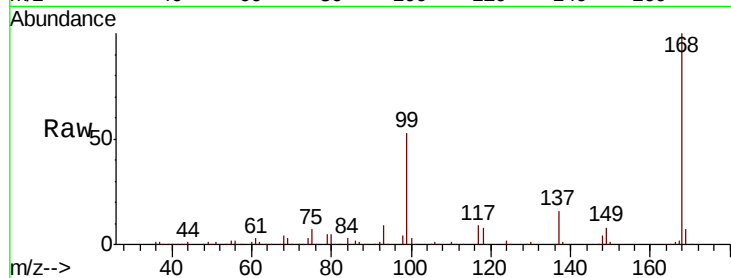
S73-0234

Tot Ion:168 Resp: 169240

Ion Ratio Lower Upper

168 100

99 53.2 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

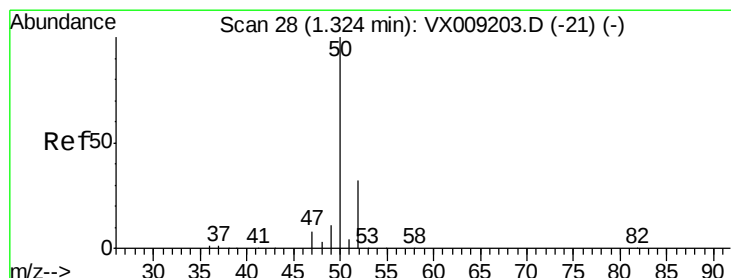
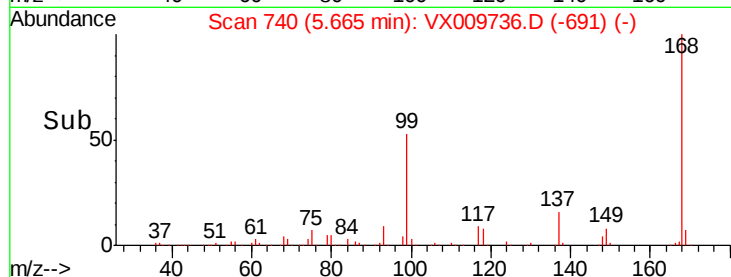
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.277 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX009736.D

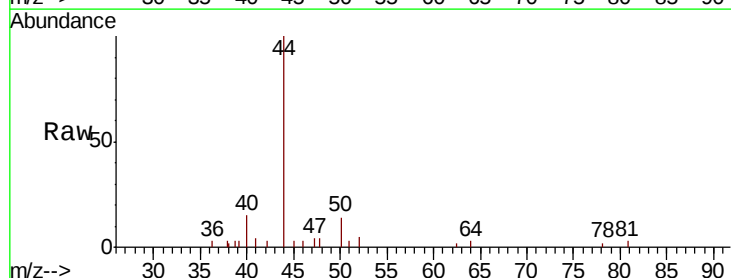
Acq: 20 May 2019 19:10

Tgt Ion: 50 Resp: 590

Ion Ratio Lower Upper

50 100

52 35.7 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

400

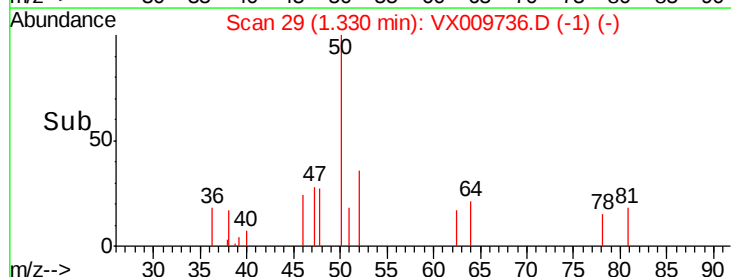
300

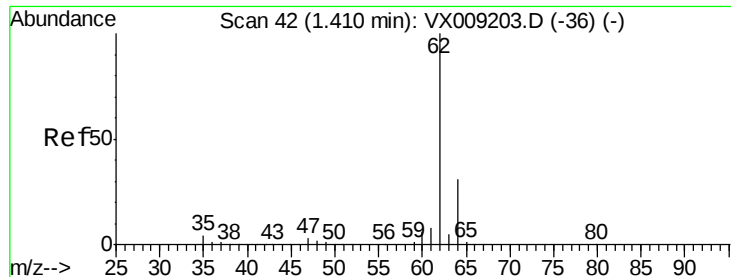
200

100

0

Time--> 1.30 1.35





#4

Vinyl Chloride

Concen: 0.443 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX009736.D

Acq: 20 May 2019 19:10

Instrument :

MSVOA_X

ClientSampled :

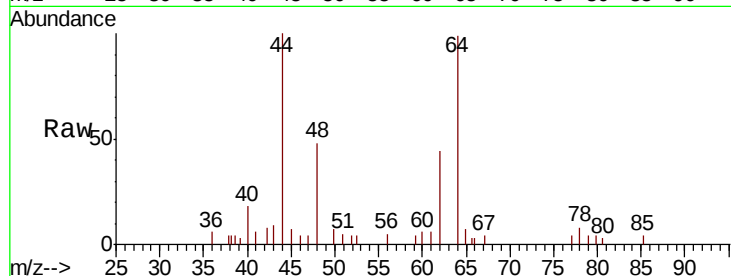
S73-0234

Tot Ion: 62 Resp: 920

Ion Ratio Lower Upper

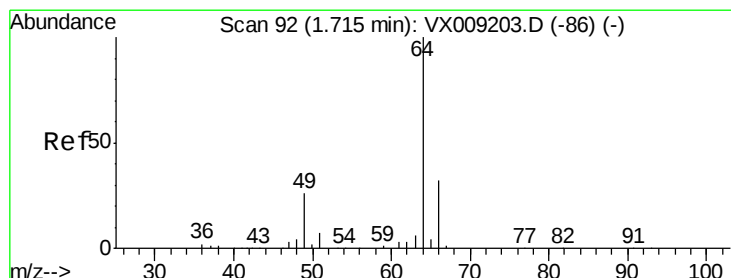
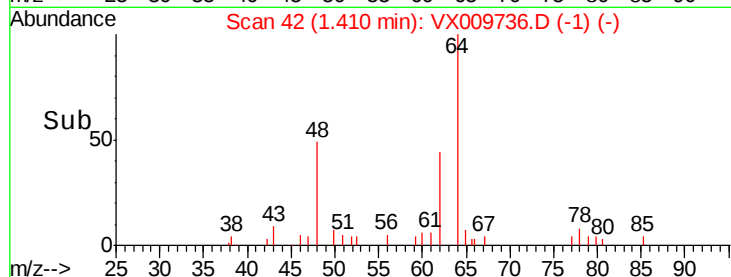
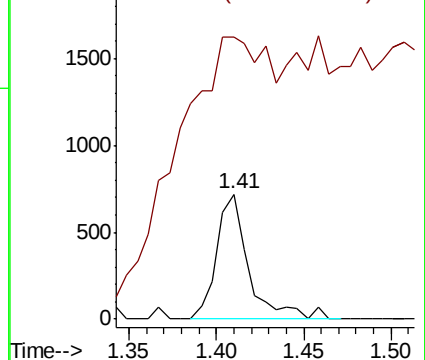
62 100

64 52.6 24.6 36.8#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#6

Chloroethane

Concen: 0.313 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX009736.D

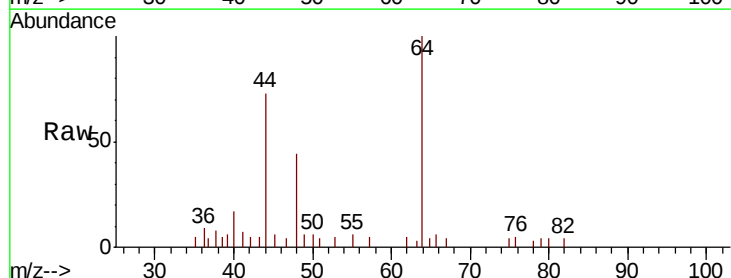
Acq: 20 May 2019 19:10

Tgt Ion: 64 Resp: 417

Ion Ratio Lower Upper

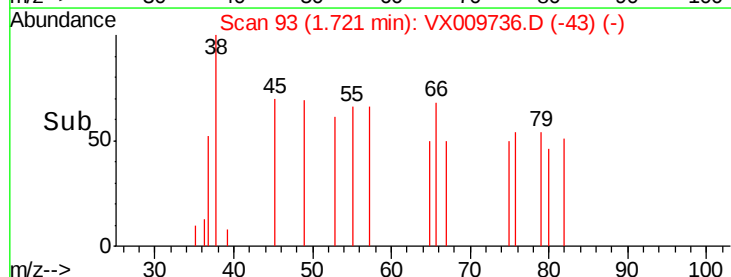
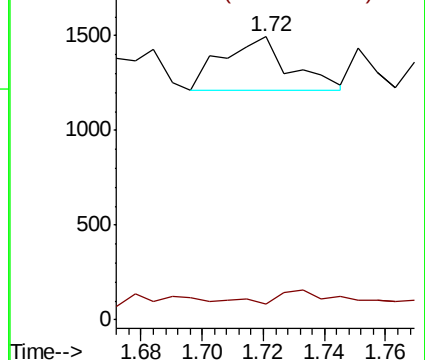
64 100

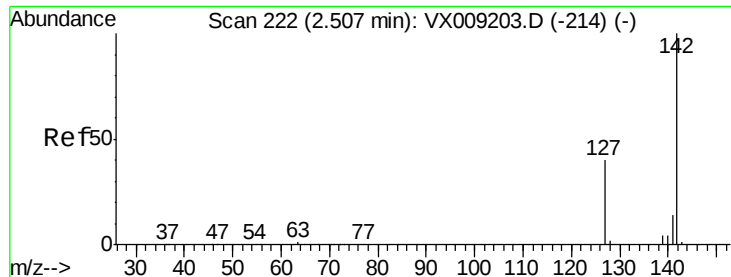
66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

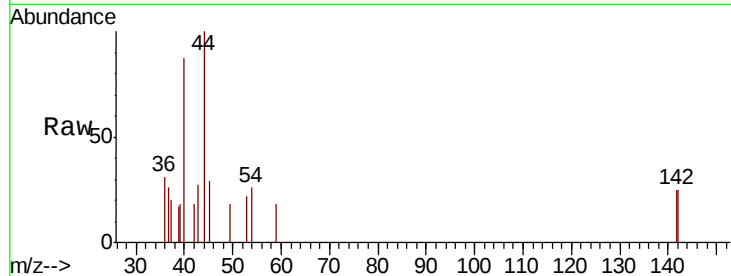




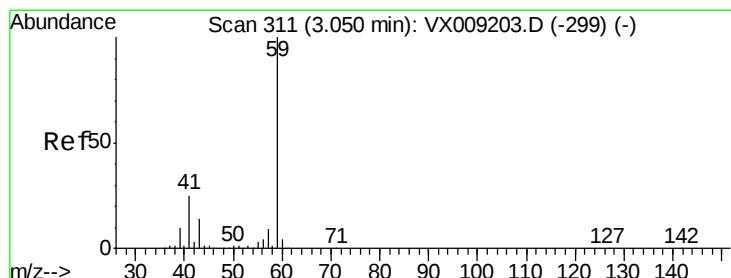
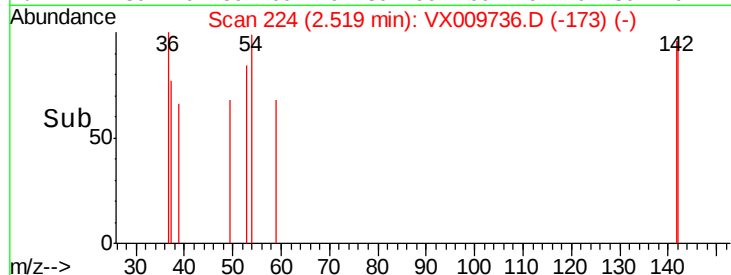
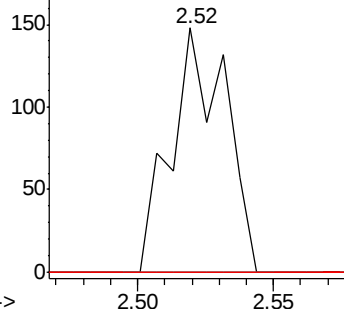
#10
Methvl Iodide
Concen: 4.695 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX009736.D
Acq: 20 May 2019 19:10

Instrument :
MSVOA_X
ClientSampleId :
S73-0234

Tot Ion:142 Resp: 205
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.5 17.3#

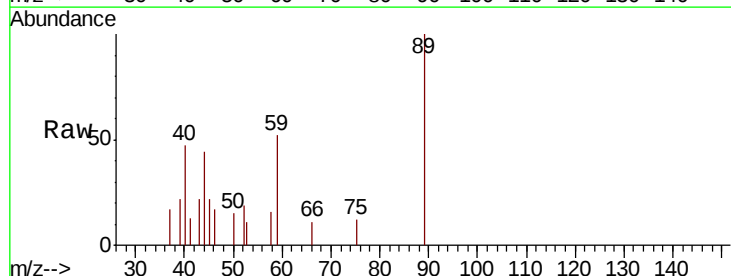


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

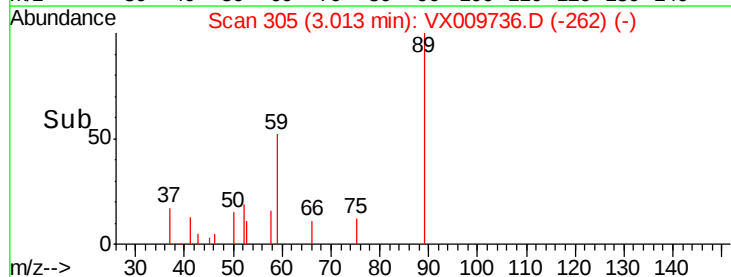
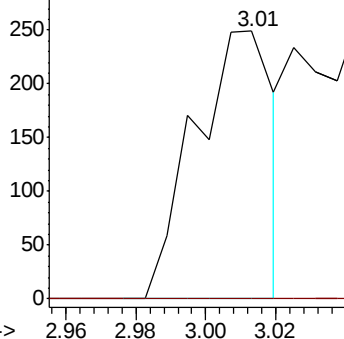


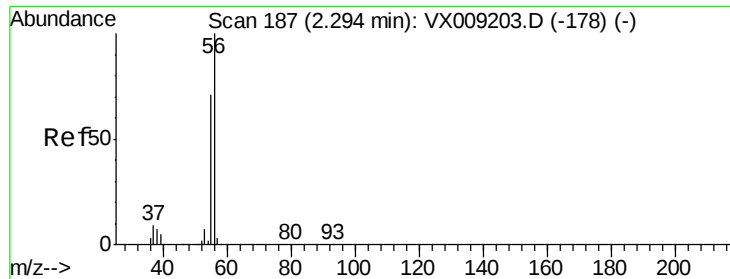
#11
Tert butyl alcohol
Concen: 0.729 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX009736.D
Acq: 20 May 2019 19:10

Tgt Ion: 59 Resp: 390
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



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





#13

Acrolein

Concen: 0.372 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX009736.D

Acq: 20 May 2019 19:10

Instrument :

MSVOA_X

ClientSampled :

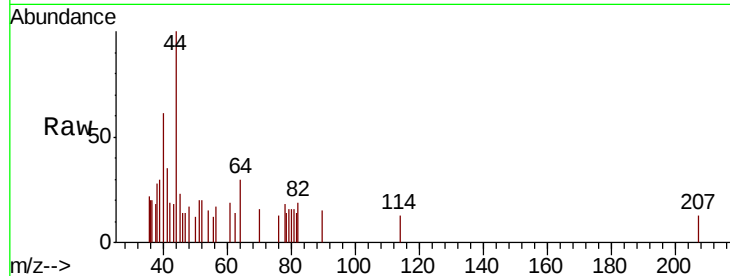
S73-0234

Tot Ion: 56 Resp: 180

Ion Ratio Lower Upper

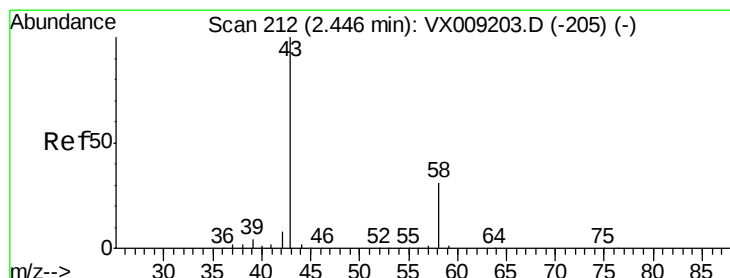
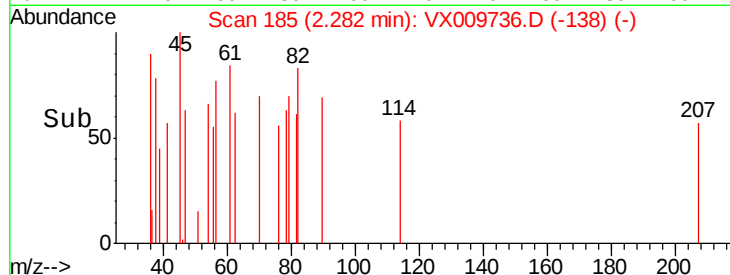
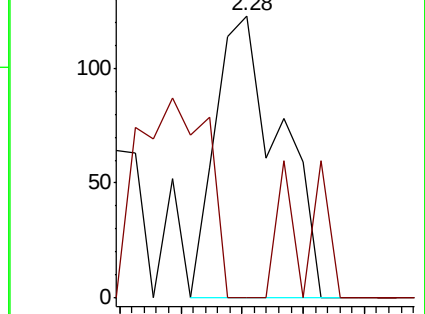
56 100

55 24.4 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 3.797 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009736.D

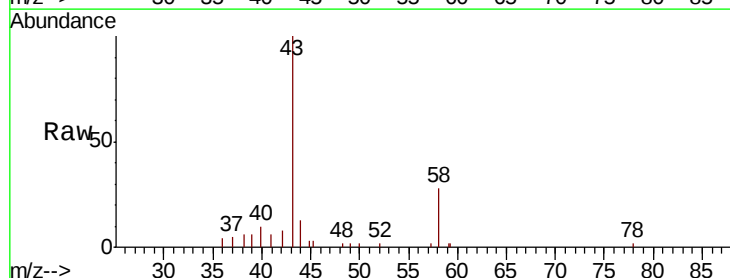
Acq: 20 May 2019 19:10

Tgt Ion: 43 Resp: 4710

Ion Ratio Lower Upper

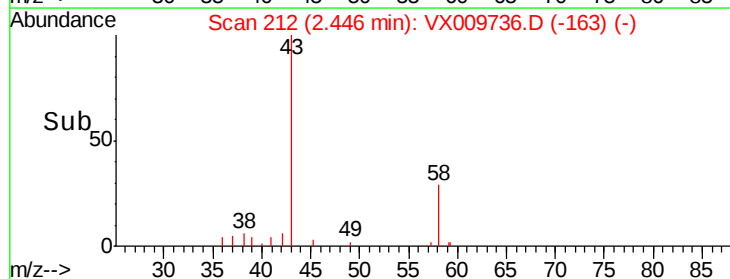
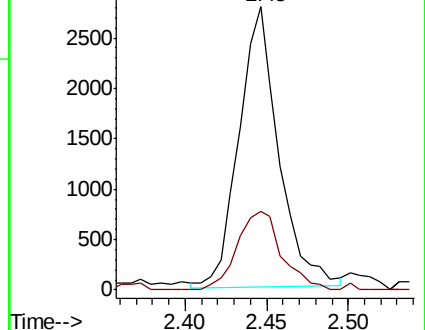
43 100

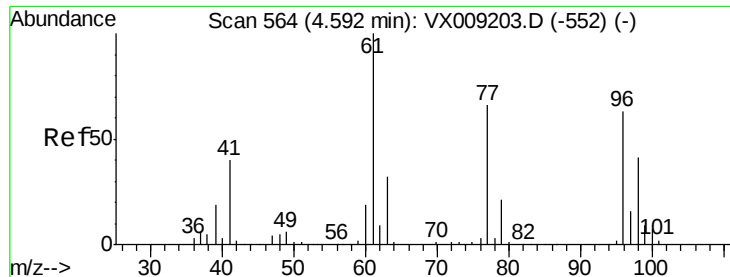
58 28.7 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



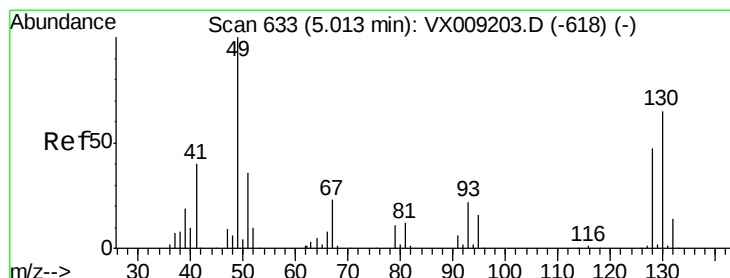
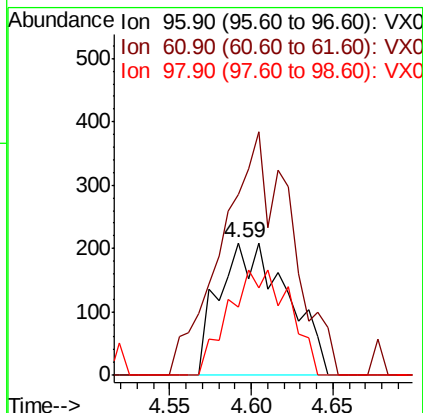
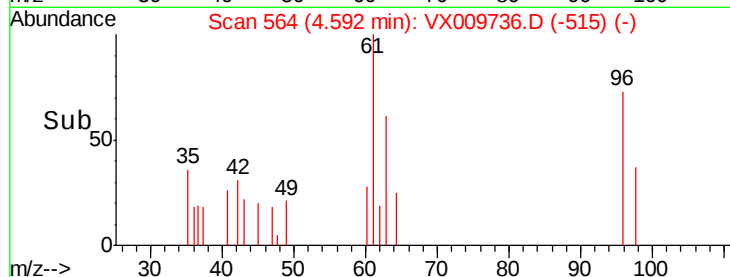
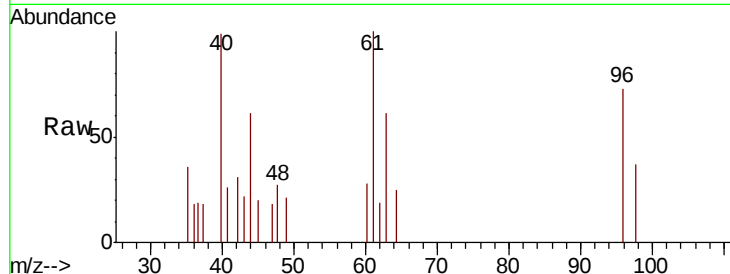


#27

cis-1,2-Dichloroethene
Concen: 0.294 ug/l
RT: 4.59 min Scan# 564
Delta R.T. -0.00 min
Lab File: VX009736.D
Acq: 20 May 2019 19:10

Instrument :
MSVOA_X
ClientSampled :
S73-0234

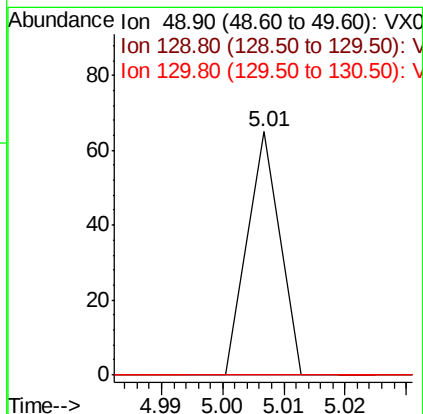
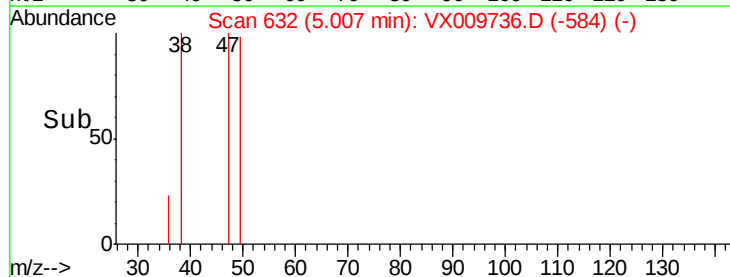
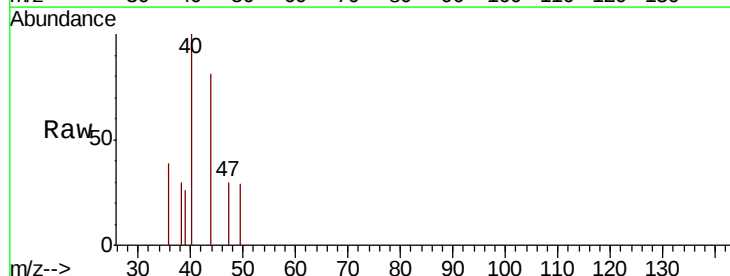
Tot Ion: 96 Resp: 605
Ion Ratio Lower Upper
96 100
61 186.4 0.0 324.0
98 71.4 0.0 130.4

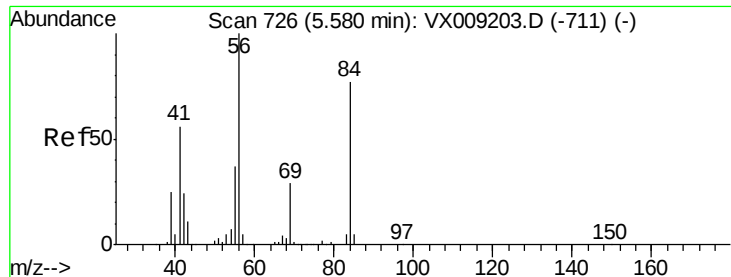


#28

Bromochloromethane
Concen: Below Cal
RT: 5.01 min Scan# 632
Delta R.T. -0.01 min
Lab File: VX009736.D
Acq: 20 May 2019 19:10

Tgt Ion: 49 Resp: 24
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 51.2 76.8#

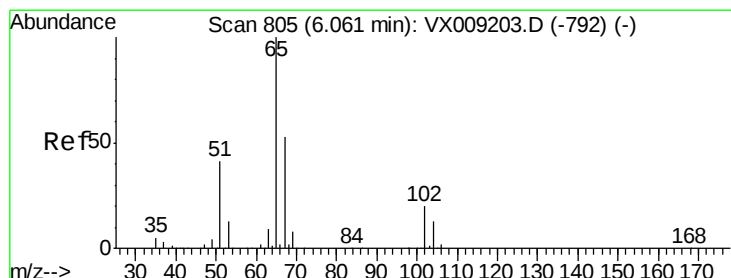
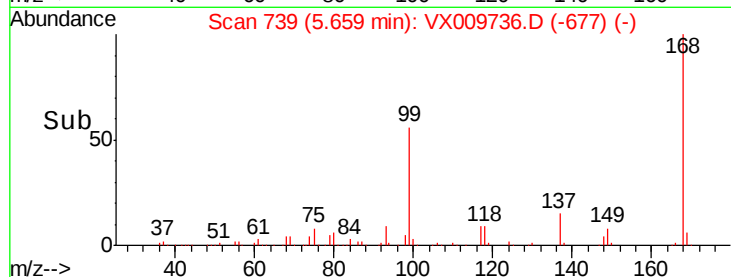
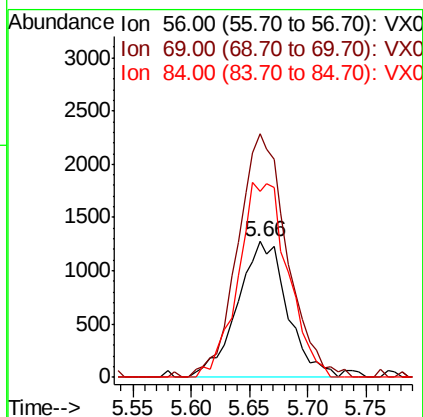
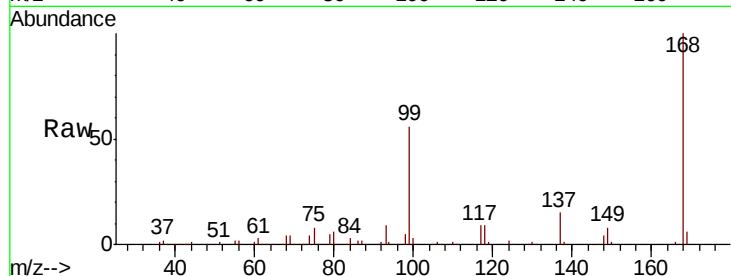




#31
Cyclohexane
Concen: 1.111 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX009736.D
Acq: 20 May 2019 19:10

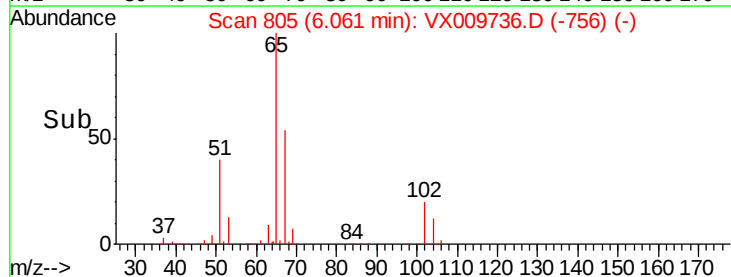
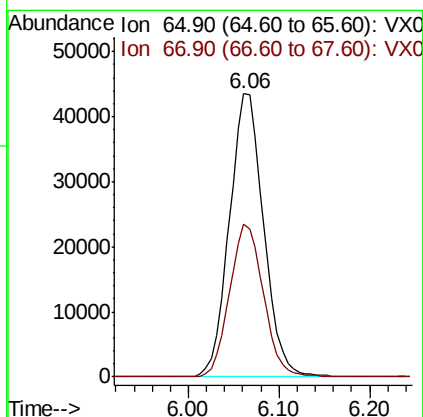
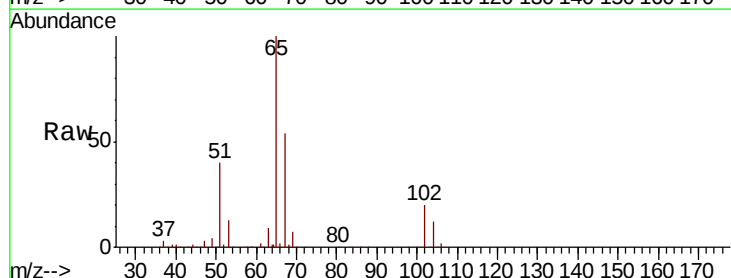
Instrument :
MSVOA_X
ClientSampleId :
S73-0234

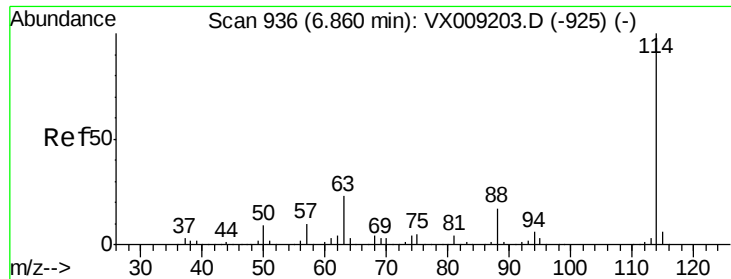
Tot Ion	56	69	84	Resp	Lower	Upper
56	100					
69	179.1	23.4				35.0#
84	136.5	61.9				92.9#



#33
1,2-Dichloroethane-d4
Concen: 49.386 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX009736.D
Acq: 20 May 2019 19:10

Tgt Ion	65	67	Resp	Lower	Upper
65	100				
67	53.5	0.0			106.6

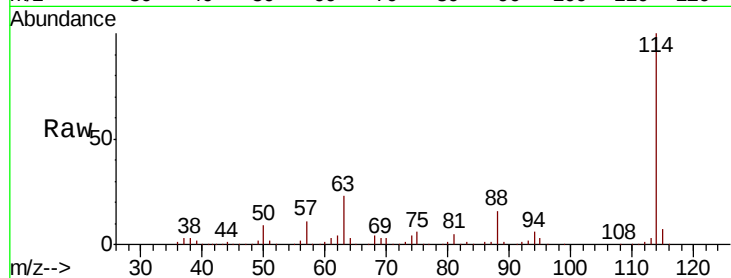




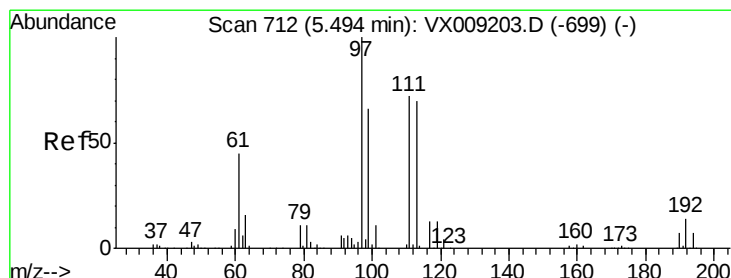
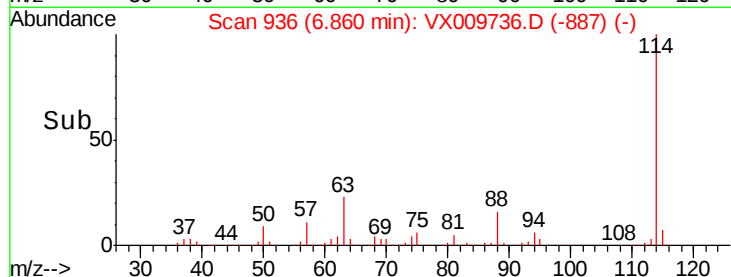
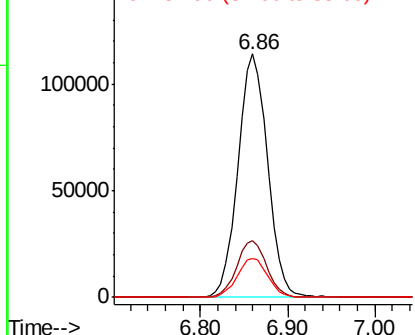
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.00 min
Lab File: VX009736.D
Acq: 20 May 2019 19:10

Instrument :
MSVOA_X
ClientSampled :
S73-0234

Tot Ion:114 Resp: 267927
Ion Ratio Lower Upper
114 100
63 23.5 0.0 45.6
88 15.9 0.0 33.2

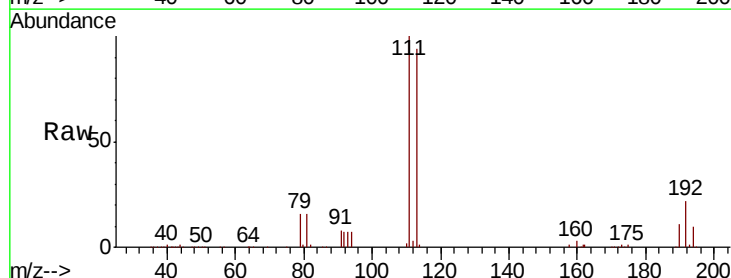


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

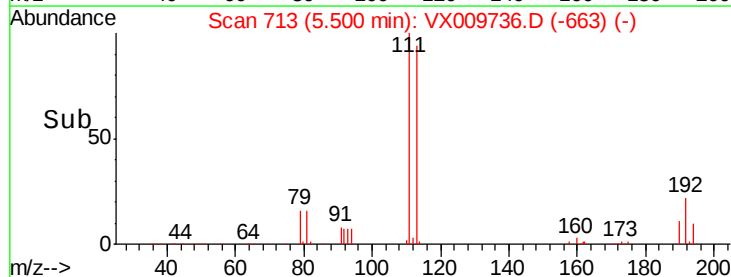
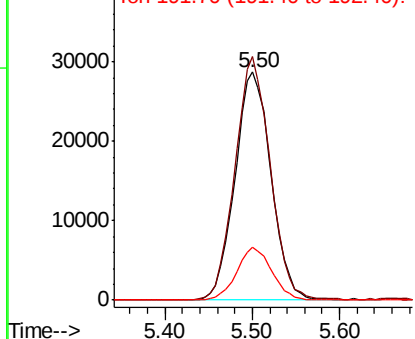


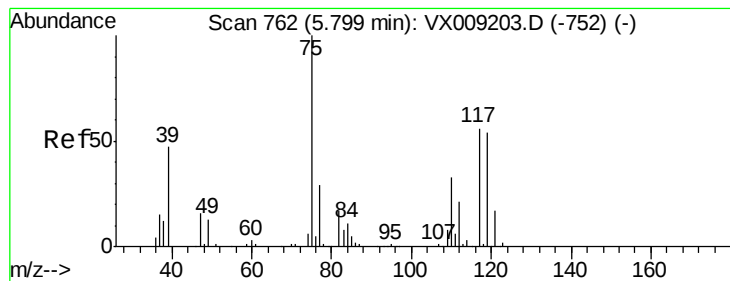
#35
Dibromofluoromethane
Concen: 48.909 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.01 min
Lab File: VX009736.D
Acq: 20 May 2019 19:10

Tgt Ion:113 Resp: 82377
Ion Ratio Lower Upper
113 100
111 104.4 82.8 124.2
192 22.4 17.0 25.6



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: 5.510 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009736.D

Acq: 20 May 2019 19:10

Instrument :

MSVOA_X

ClientSampled :

S73-0234

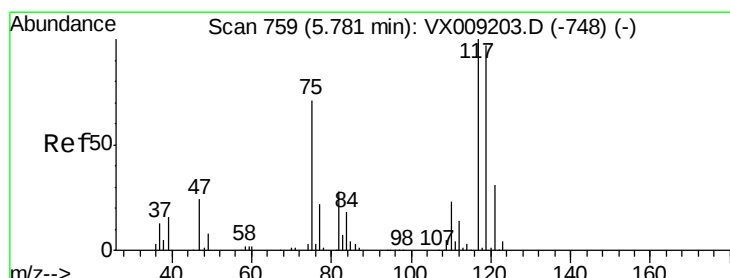
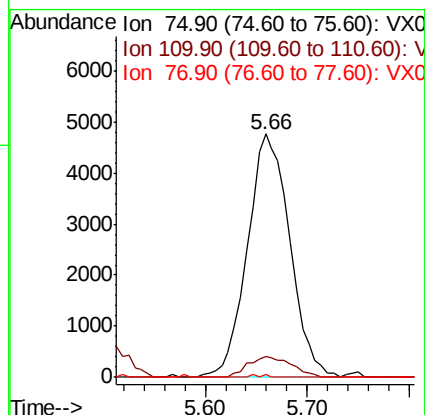
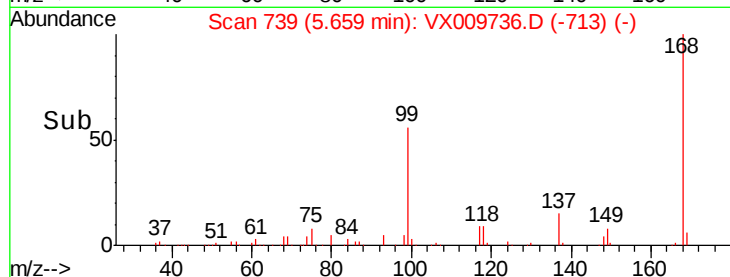
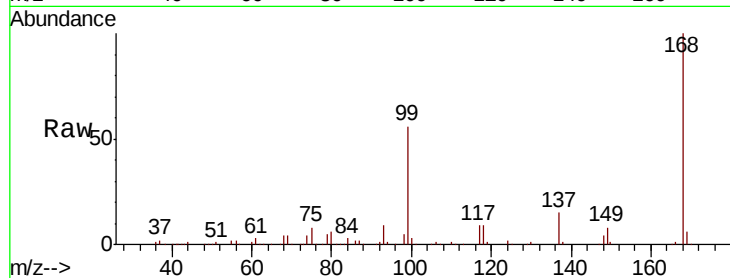
Tot Ion: 75 Resp: 13720

Ion Ratio Lower Upper

75 100

110 8.7 16.9 50.6#

77 0.3 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 7.250 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009736.D

Acq: 20 May 2019 19:10

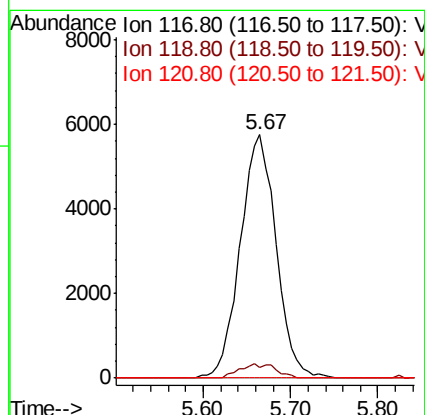
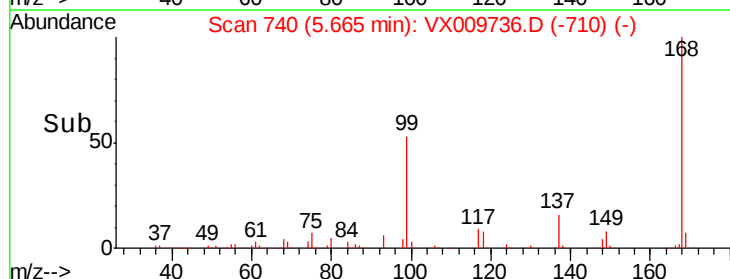
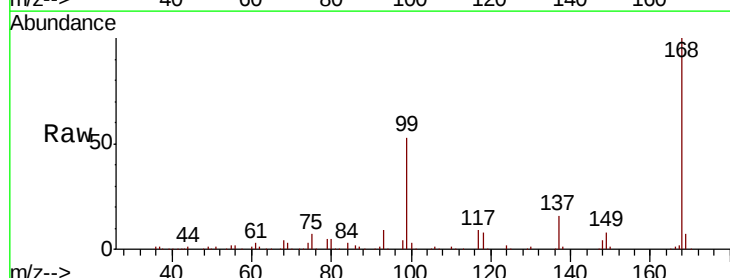
Tgt Ion: 117 Resp: 16401

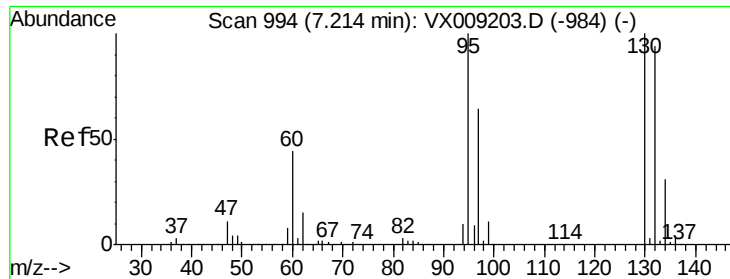
Ion Ratio Lower Upper

117 100

119 4.4 77.5 116.3#

121 0.0 24.7 37.1#





#44

Trichloroethene

Concen: 0.209 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX009736.D

Acq: 20 May 2019 19:10

Instrument :

MSVOA_X

ClientSampled :

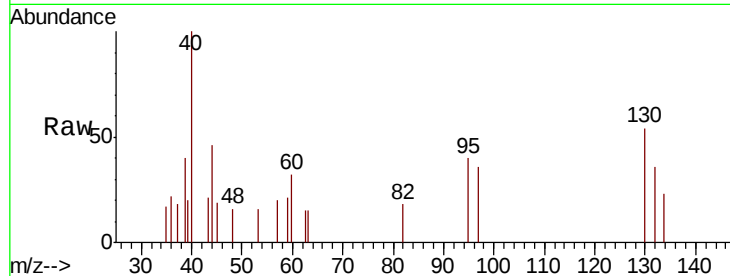
S73-0234

Tot Ion:130 Resp: 390

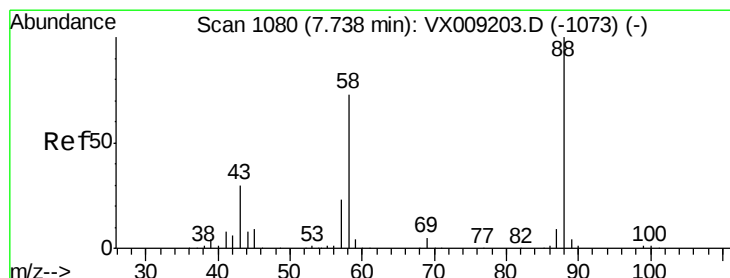
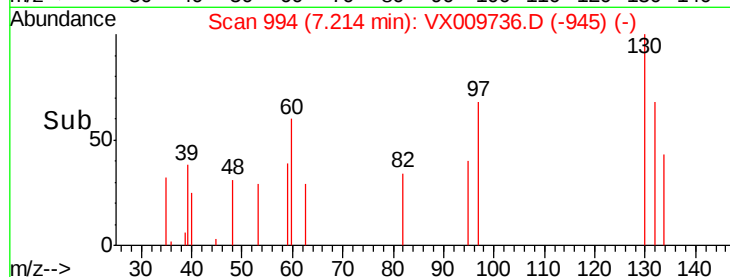
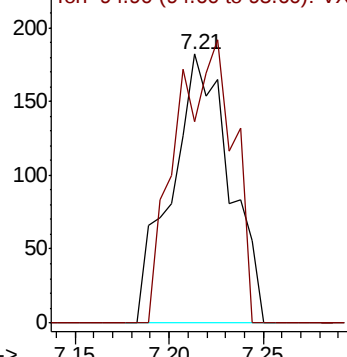
Ion Ratio Lower Upper

130 100

95 74.7 0.0 199.2



Abundance Ion 129.80 (129.50 to 130.50): V



#49

1,4-Dioxane

Concen: 0.358 ug/l

RT: 7.66 min Scan# 1067

Delta R.T. -0.08 min

Lab File: VX009736.D

Acq: 20 May 2019 19:10

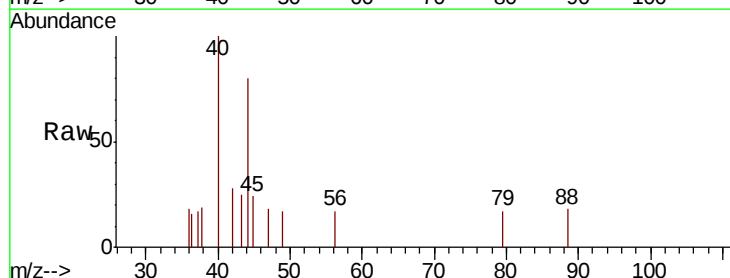
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 490.0 28.6 42.8#

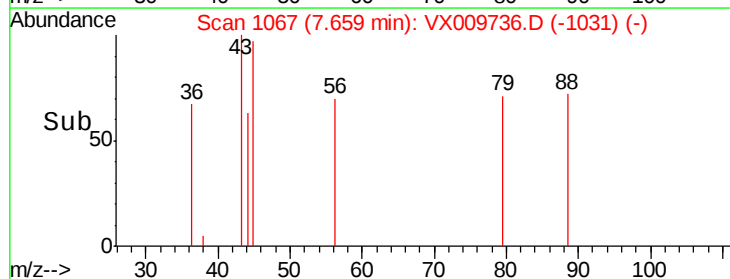
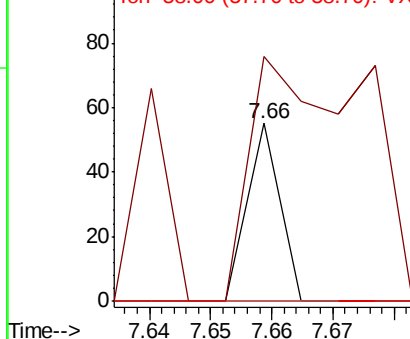
58 0.0 61.7 92.5#

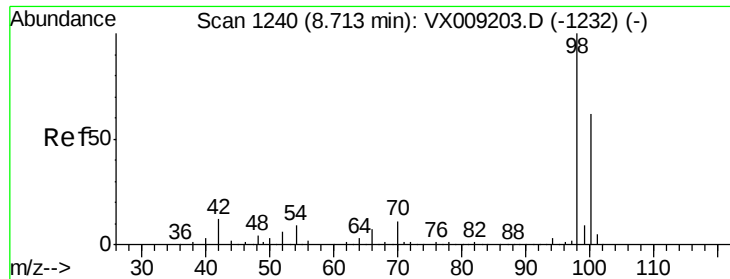


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.925 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009736.D

Acq: 20 May 2019 19:10

Instrument :

MSVOA_X

ClientSampleId :

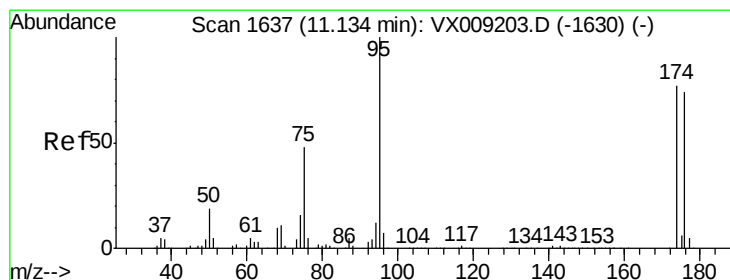
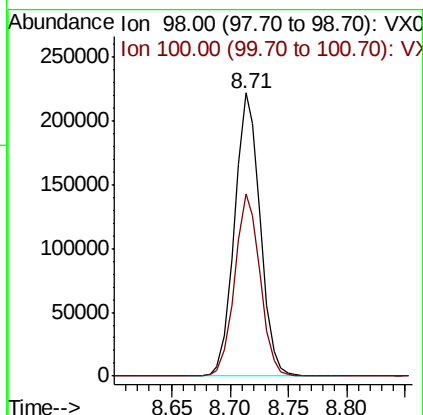
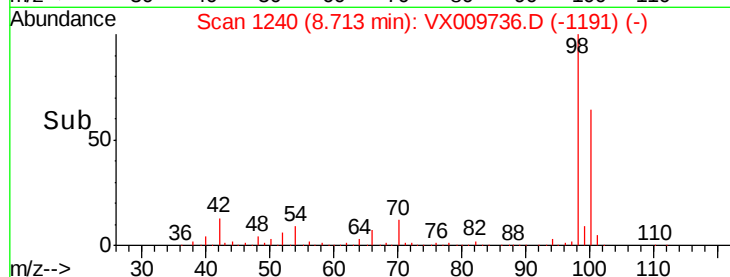
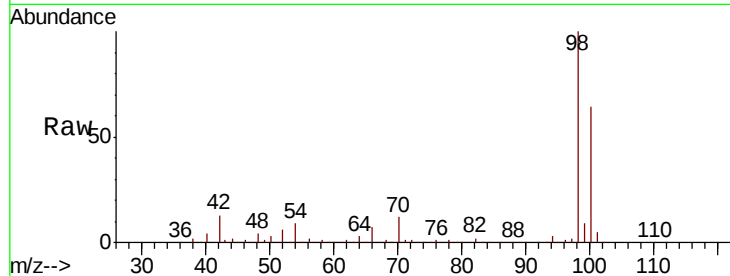
S73-0234

Tot Ion: 98 Resp: 339486

Ion Ratio Lower Upper

98 100

100 63.9 51.2 76.8



#62

4-Bromofluorobenzene

Concen: 43.303 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009736.D

Acq: 20 May 2019 19:10

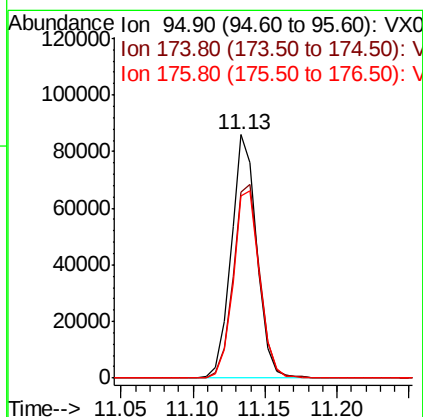
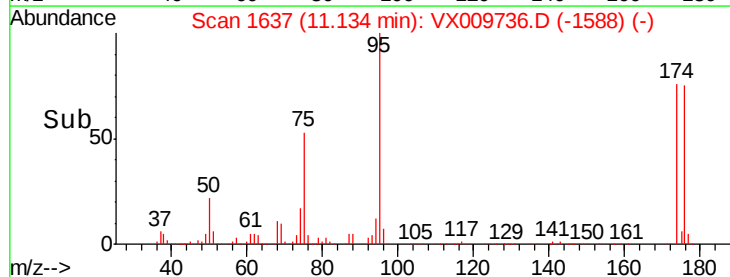
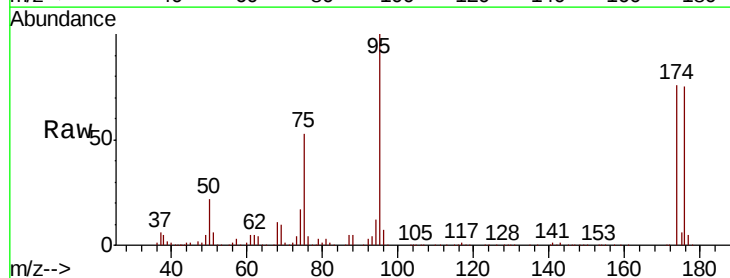
Tgt Ion: 95 Resp: 106995

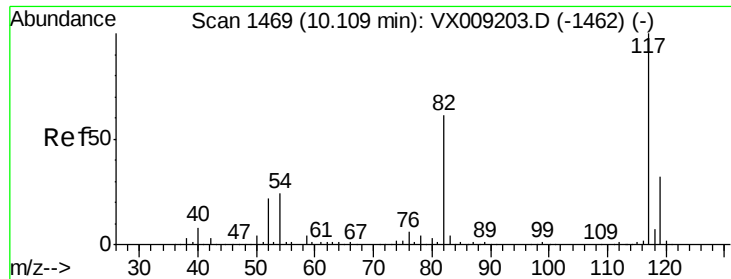
Ion Ratio Lower Upper

95 100

174 82.4 0.0 161.6

176 79.5 0.0 159.2

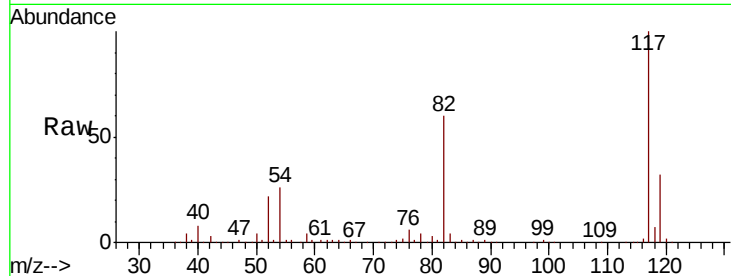




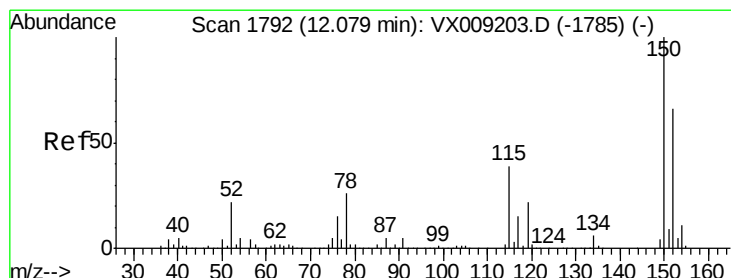
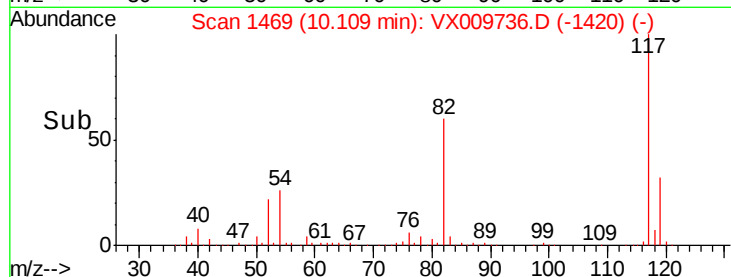
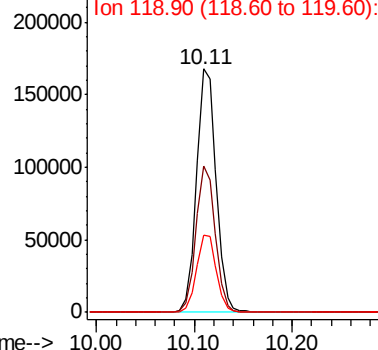
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009736.D
Acq: 20 May 2019 19:10

Instrument :
MSVOA_X
ClientSampleId :
S73-0234

Tot Ion:117 Resp: 232591
Ion Ratio Lower Upper
117 100
82 60.1 48.8 73.2
119 31.9 25.8 38.6

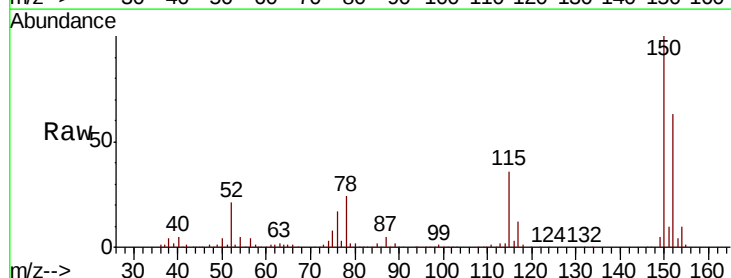


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

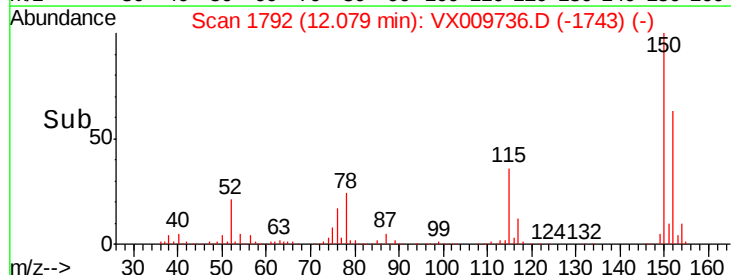
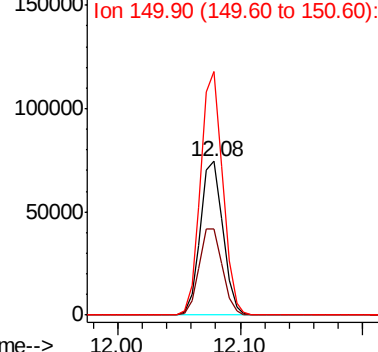


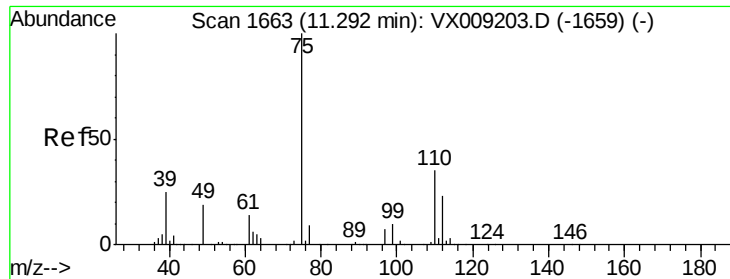
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009736.D
Acq: 20 May 2019 19:10

Tgt Ion:152 Resp: 94711
Ion Ratio Lower Upper
152 100
115 58.2 41.2 123.6
150 155.6 0.0 346.4



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: 25.224 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009736.D

Acq: 20 May 2019 19:10

Instrument :

MSVOA_X

ClientSampled :

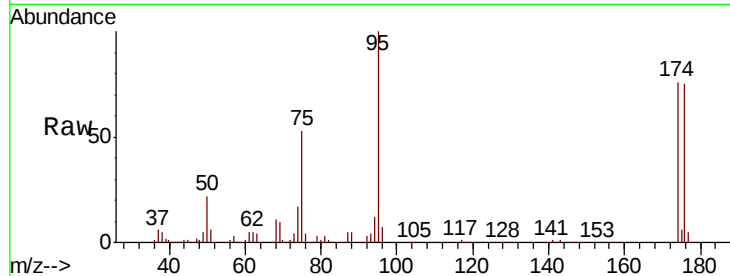
S73-0234

Tot Ion: 75 Resp: 55416

Ion Ratio Lower Upper

75 100

77 1.4 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

50000

40000

30000

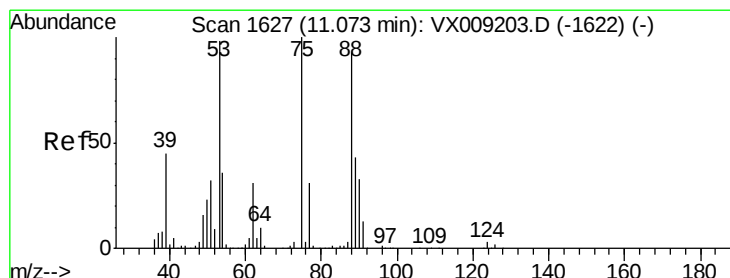
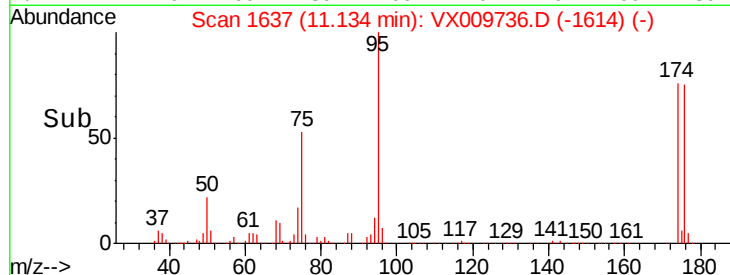
20000

10000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 64.539 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009736.D

Acq: 20 May 2019 19:10

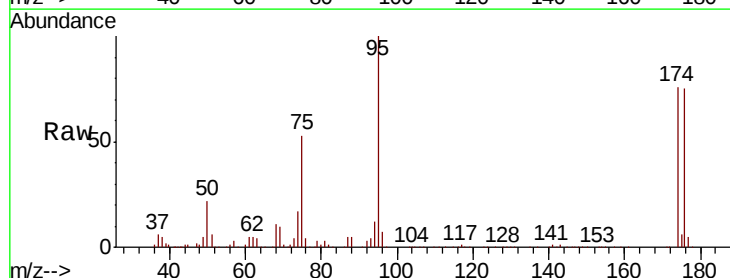
Tgt Ion: 75 Resp: 55416

Ion Ratio Lower Upper

75 100

53 0.2 79.0 118.6#

89 0.0 34.7 52.1#



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

60000

50000

40000

30000

20000

10000

0

Time-->

11.10 11.20

