

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090518\
 Data File : VX004372.D
 Acq On : 05 Sep 2018 15:58
 Operator : JC/MD
 Sample : J4794-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 06 00:50:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	321537	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	505174	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	457448	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	284306	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	211093	50.37	ug/l	0.00
Spiked Amount			Recovery	=	100.74%	
35) Dibromofluoromethane	5.50	113	184785	49.17	ug/l	0.00
Spiked Amount			Recovery	=	98.34%	
50) Toluene-d8	8.71	98	707700	49.89	ug/l	0.00
Spiked Amount			Recovery	=	99.78%	
62) 4-Bromofluorobenzene	11.14	95	263651	49.81	ug/l	0.00
Spiked Amount			Recovery	=	99.62%	

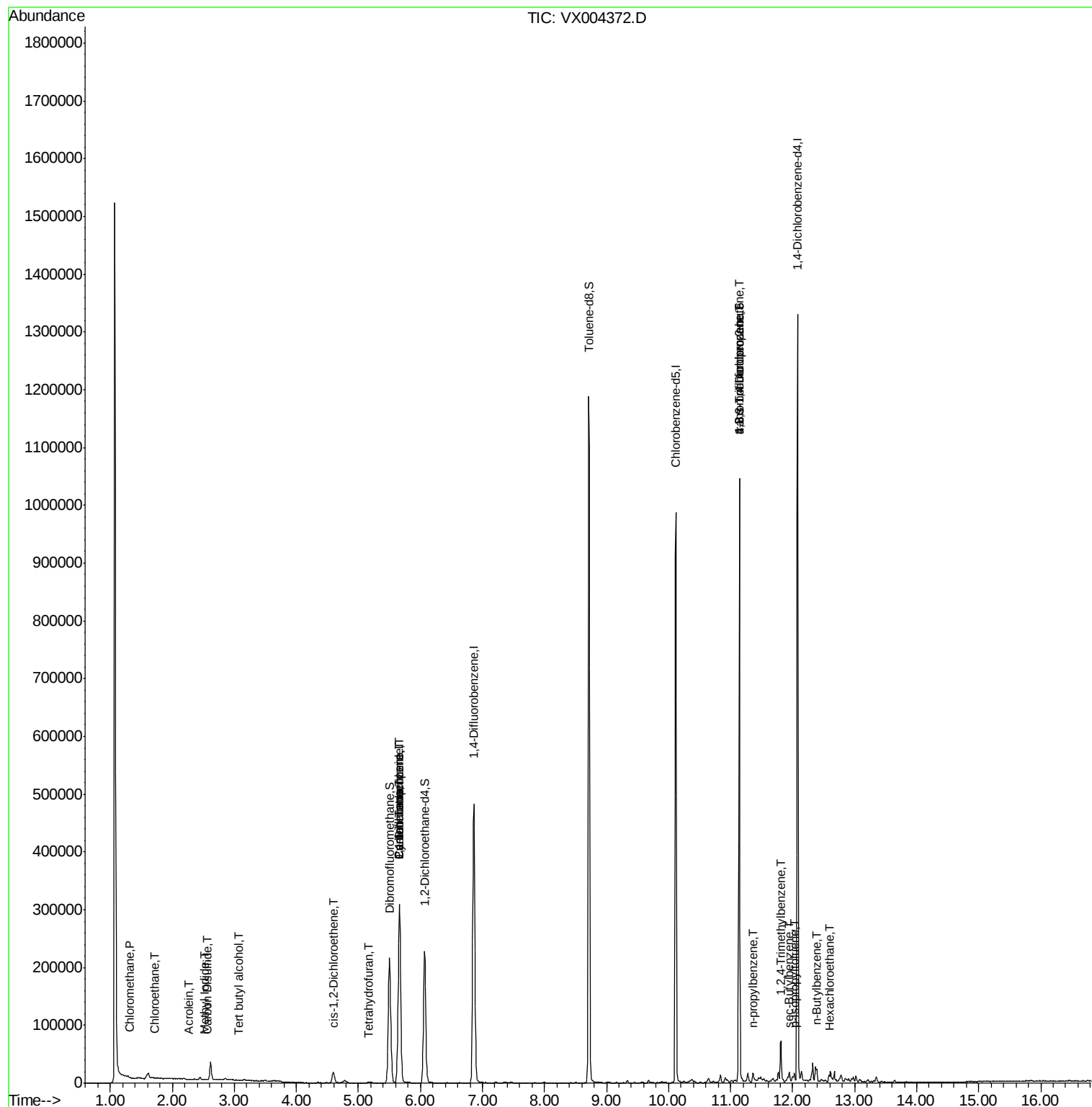
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	934	0.52	ug/l	98
5) Bromomethane	1.64	94	1361	Below Cal		81
6) Chloroethane	1.71	64	470	1.11	ug/l #	61
10) Methyl Iodide	2.52	142	918	4.47	ug/l #	98
11) Tert butyl alcohol	3.07	59	444	0.50	ug/l	97
13) Acrolein	2.28	56	106	0.49	ug/l #	20
16) Acetone	2.45	43	4470	Below Cal		95
17) Carbon Disulfide	2.56	76	895	0.89	ug/l #	80
25) 2-Butanone	4.72	43	457	Below Cal	#	47
27) cis-1,2-Dichloroethene	4.60	96	12016	2.81	ug/l	90
29) Tetrahydrofuran	5.17	42	900	0.50	ug/l #	83
31) Cyclohexane	5.66	56	5320	0.91	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	20763	3.66	ug/l #	50
38) Carbon Tetrachloride	5.66	117	27553	5.16	ug/l #	16
76) 1,2,3-Trichloropropane	11.14	75	124547	21.54	ug/l #	37
78) n-propylbenzene	11.36	91	8408	0.39	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.14	75	124547	69.89	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	30132	1.90	ug/l	97
85) sec-Butylbenzene	11.94	105	5002	0.27	ug/l	95
86) p-Isopropyltoluene	12.02	119	5133	0.31	ug/l	93
89) n-Butylbenzene	12.39	91	8298	0.62	ug/l #	81
90) Hexachloroethane	12.59	117	655	0.28	ug/l #	3
94) Hexachlorobutadiene	13.79	225	214	Below Cal		86

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.00 min

Lab File: VX004372.D

Acq: 05 Sep 2018 15:58

Instrument :

MSVOA_X

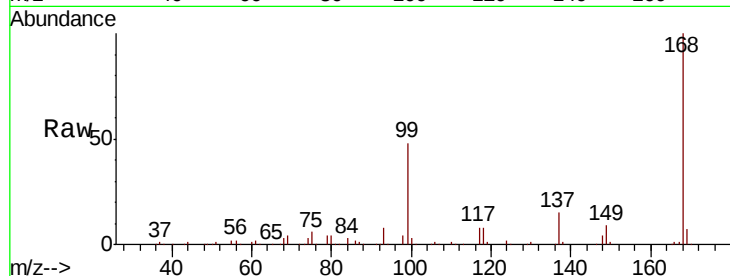
ClientSampleId :

Tot Ion:168 Resp: 321537

Ion Ratio Lower Upper

168 100

99 47.9 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

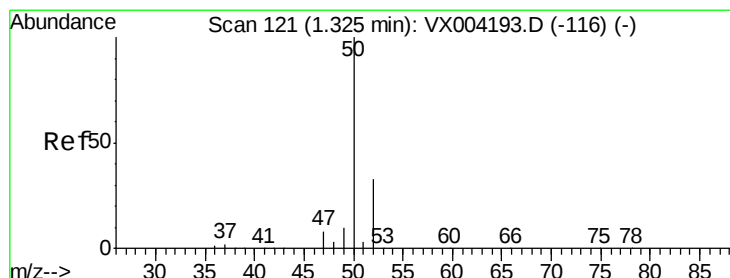
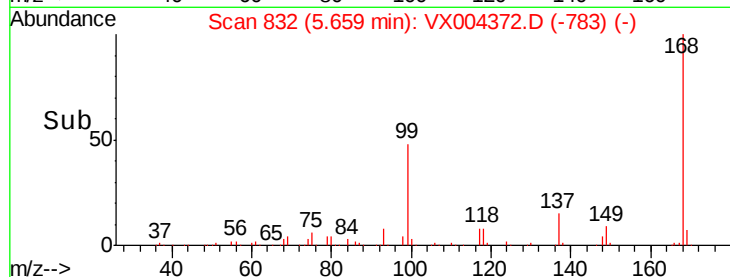
5.66

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.52 ug/l

RT: 1.32 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX004372.D

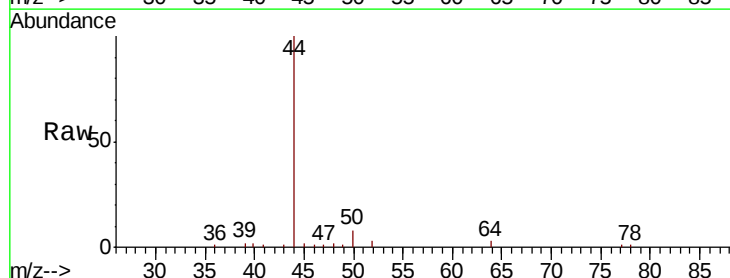
Acq: 05 Sep 2018 15:58

Tgt Ion: 50 Resp: 934

Ion Ratio Lower Upper

50 100

52 33.7 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

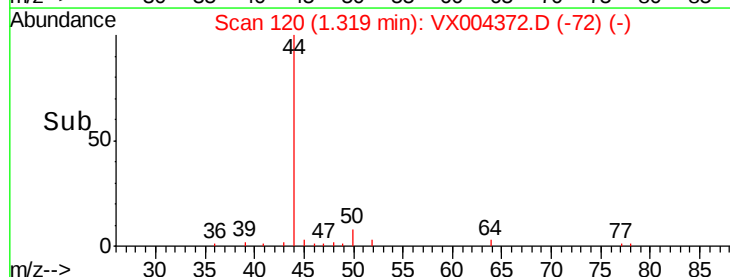
600

400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX004372.D

Acq: 05 Sep 2018 15:58

Instrument :

MSVOA_X

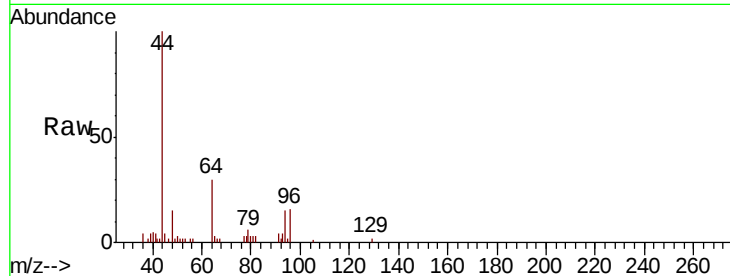
ClientSampled :

Tot Ion: 94 Resp: 1361

Ion Ratio Lower Upper

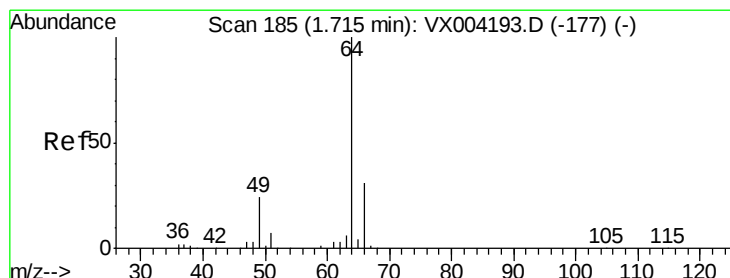
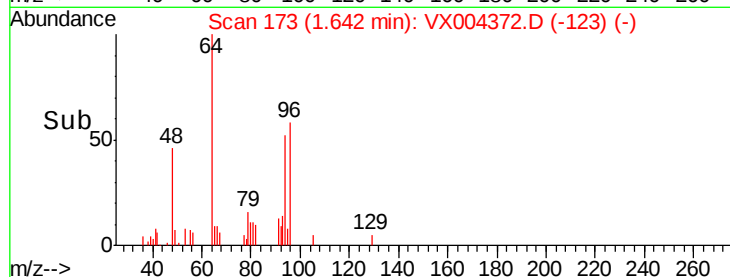
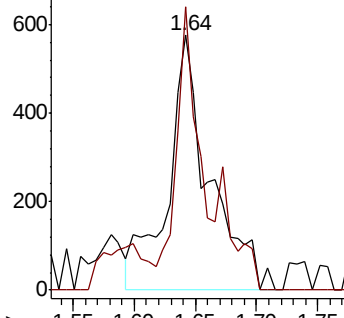
94 100

96 110.9 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.11 ug/l

RT: 1.71 min Scan# 184

Delta R.T. -0.01 min

Lab File: VX004372.D

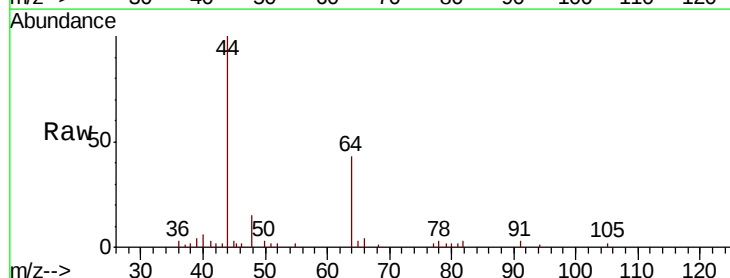
Acq: 05 Sep 2018 15:58

Tgt Ion: 64 Resp: 470

Ion Ratio Lower Upper

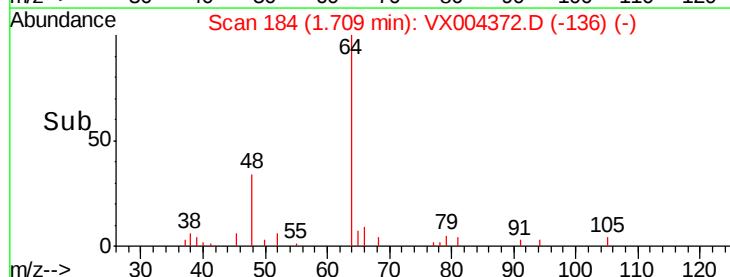
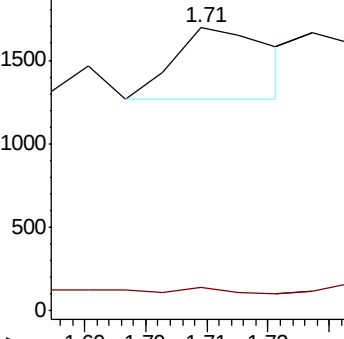
64 100

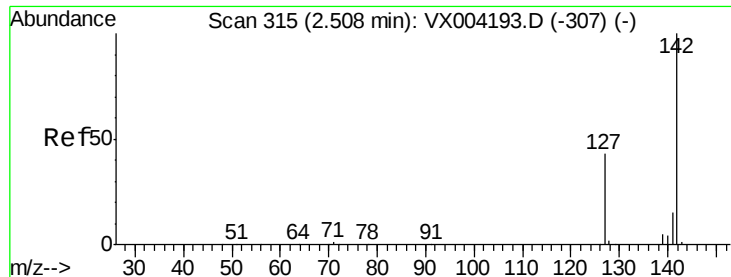
66 9.4 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

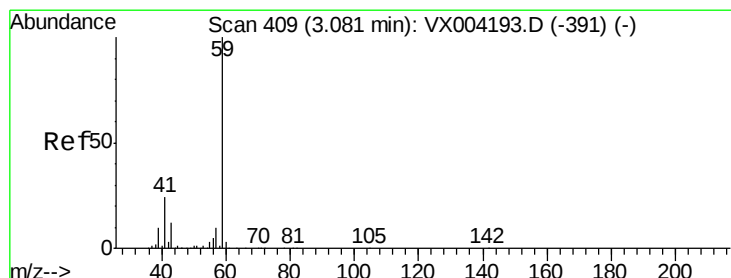
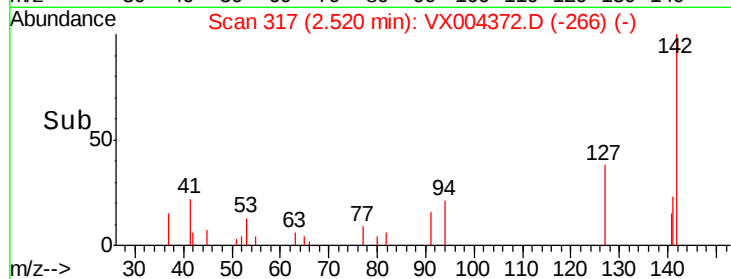
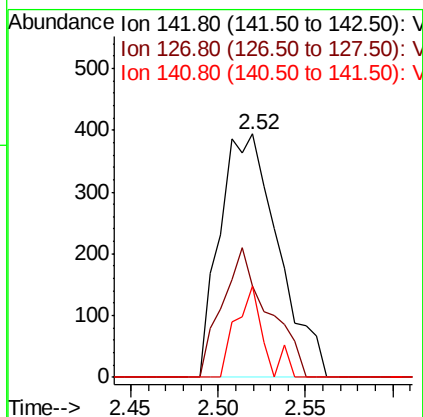
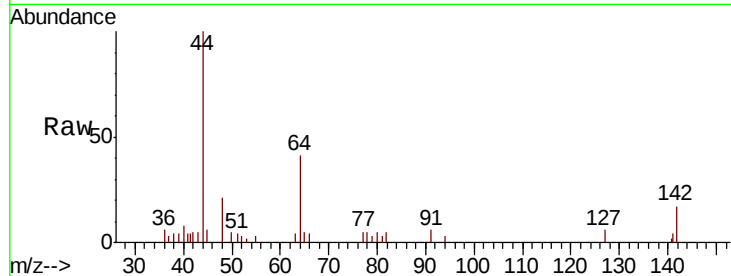




#10
Methyl Iodide
Concen: 4.47 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX004372.D
Acq: 05 Sep 2018 15:58

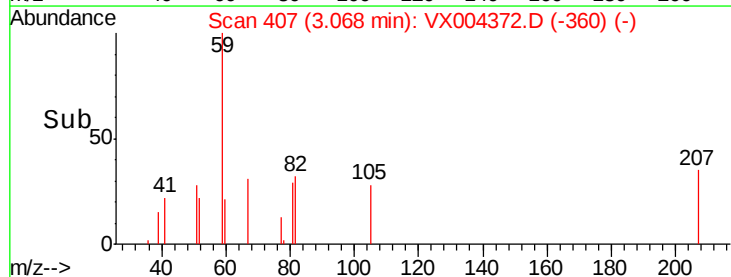
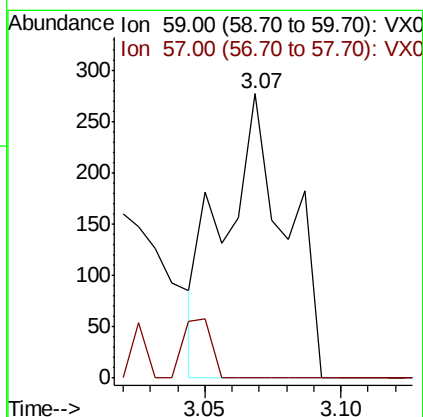
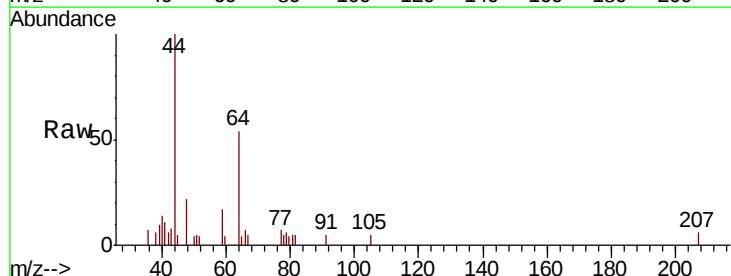
Instrument :
MSVOA_X
ClientSampled :

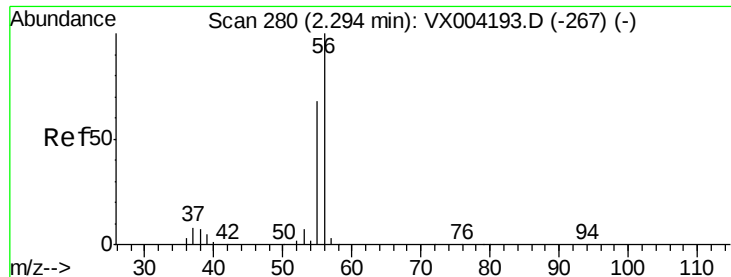
Tot Ion:142 Resp: 918
Ion Ratio Lower Upper
142 100
127 42.0 33.8 50.6
141 17.6 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.50 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX004372.D
Acq: 05 Sep 2018 15:58

Tgt Ion: 59 Resp: 444
Ion Ratio Lower Upper
59 100
57 9.2 8.2 12.4





#13

Acrolein

Concen: 0.49 ug/l

RT: 2.28 min Scan# 277

Delta R.T. -0.02 min

Lab File: VX004372.D

Acq: 05 Sep 2018 15:58

Instrument :

MSVOA_X

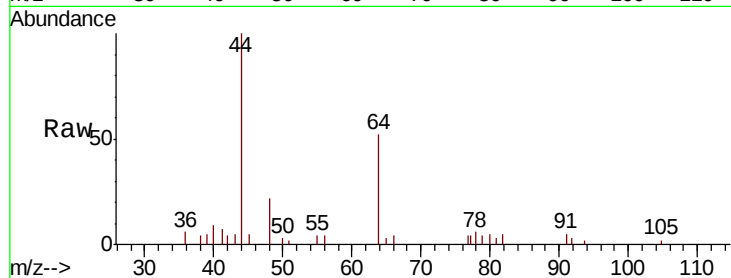
ClientSampled :

Tot Ion: 56 Resp: 106

Ion Ratio Lower Upper

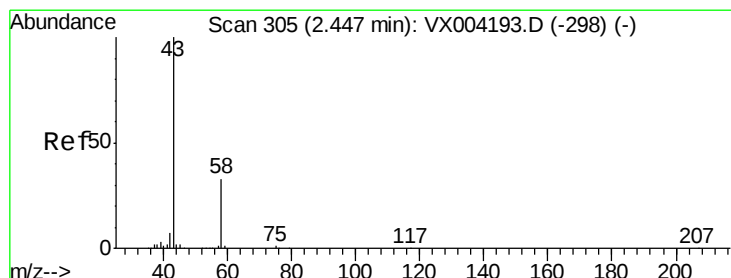
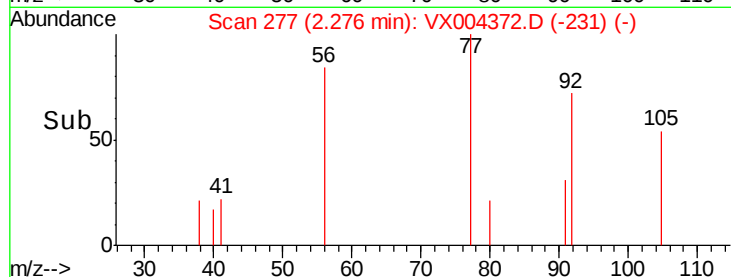
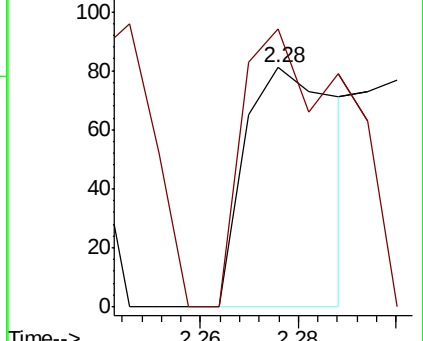
56 100

55 133.0 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX004372.D

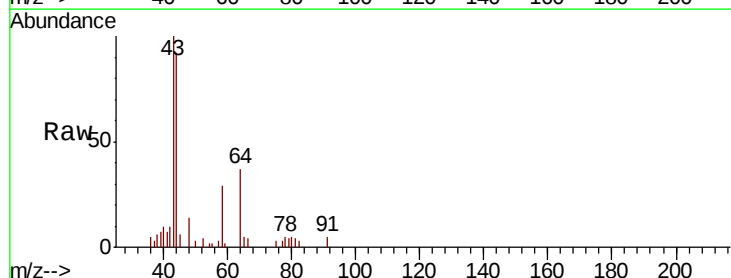
Acq: 05 Sep 2018 15:58

Tgt Ion: 43 Resp: 4470

Ion Ratio Lower Upper

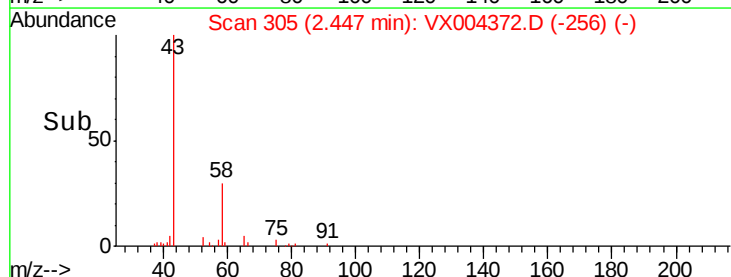
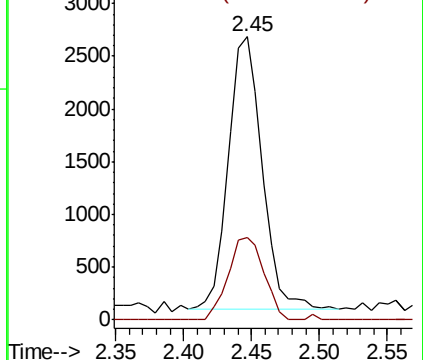
43 100

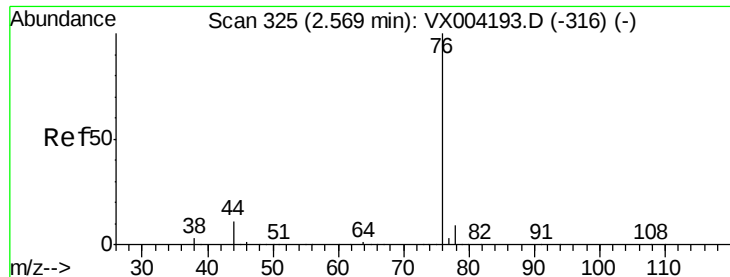
58 30.1 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.89 ug/l

RT: 2.56 min Scan# 324

Delta R.T. -0.01 min

Lab File: VX004372.D

Acq: 05 Sep 2018 15:58

Instrument :

MSVOA_X

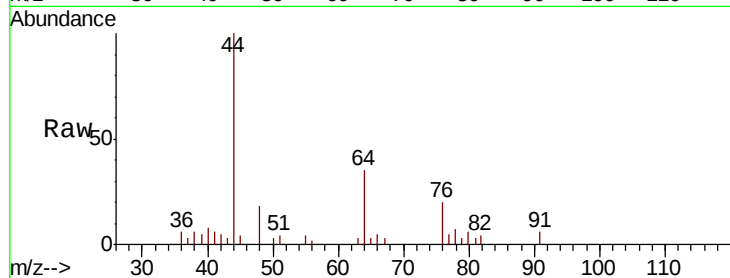
ClientSampled :

Tot Ion: 76 Resp: 895

Ion Ratio Lower Upper

76 100

78 16.2 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

600

500

400

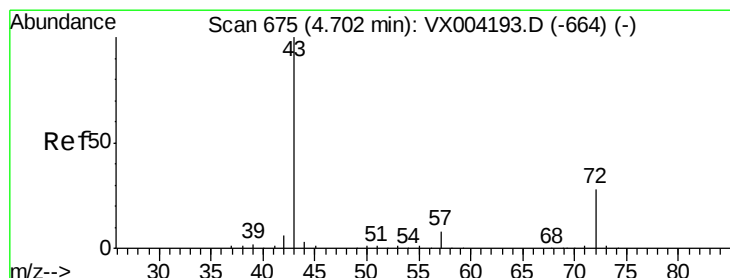
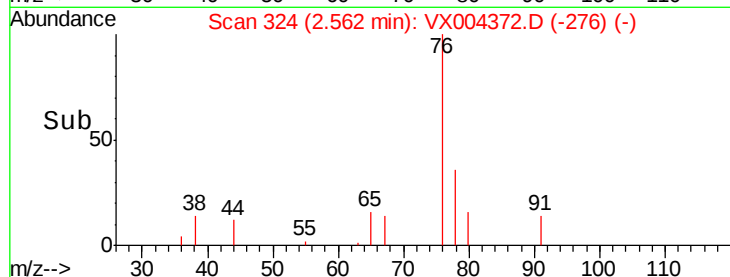
300

200

100

0

Time-->



#25

2-Butanone

Concen: Below Cal

RT: 4.72 min Scan# 678

Delta R.T. 0.02 min

Lab File: VX004372.D

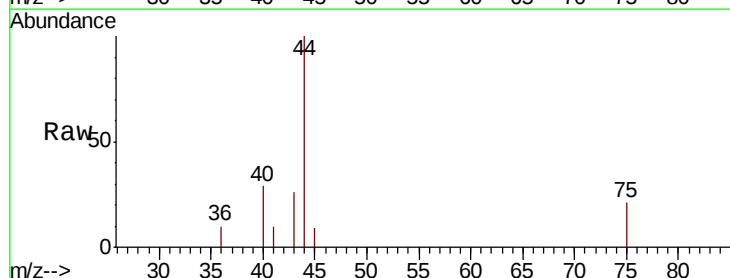
Acq: 05 Sep 2018 15:58

Tgt Ion: 43 Resp: 457

Ion Ratio Lower Upper

43 100

72 0.0 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.72

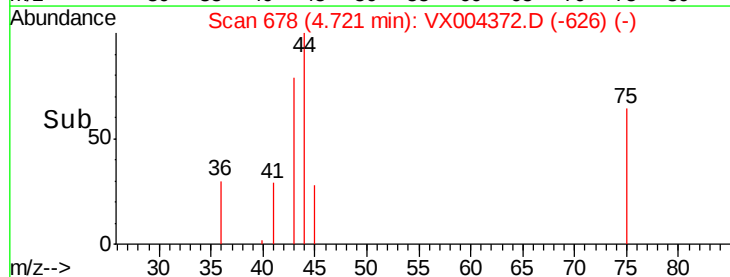
150

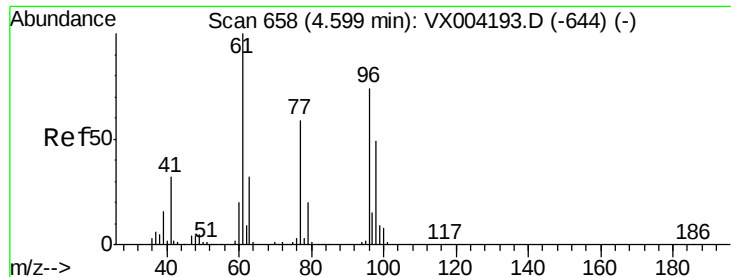
100

50

0

Time-->





#27

cis-1,2-Dichloroethene

Concen: 2.81 ug/l

RT: 4.60 min Scan# 658

Delta R.T. -0.00 min

Lab File: VX004372.D

Acq: 05 Sep 2018 15:58

Instrument :

MSVOA_X

ClientSampled :

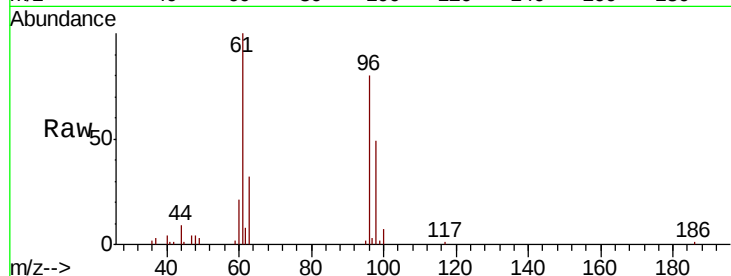
Tot Ion: 96 Resp: 12016

Ion Ratio Lower Upper

96 100

61 125.0 0.0 282.6

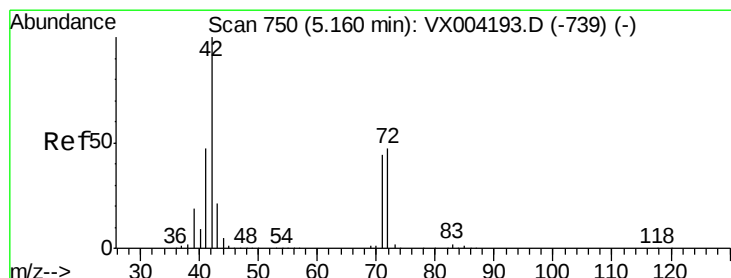
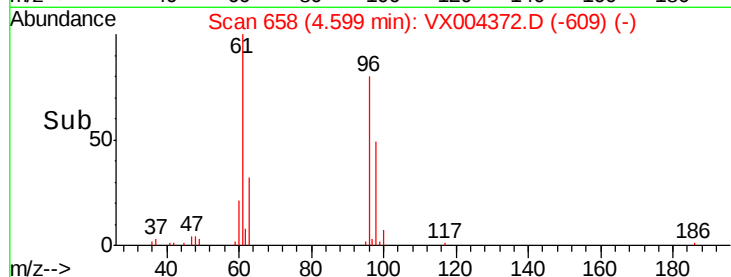
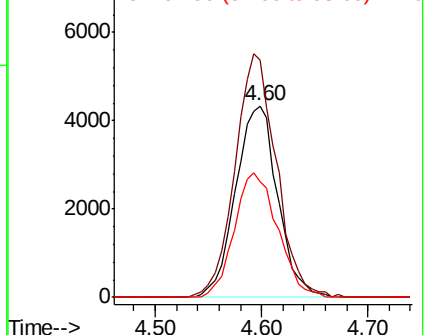
98 66.9 0.0 130.2



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: 0.50 ug/l

RT: 5.17 min Scan# 751

Delta R.T. 0.01 min

Lab File: VX004372.D

Acq: 05 Sep 2018 15:58

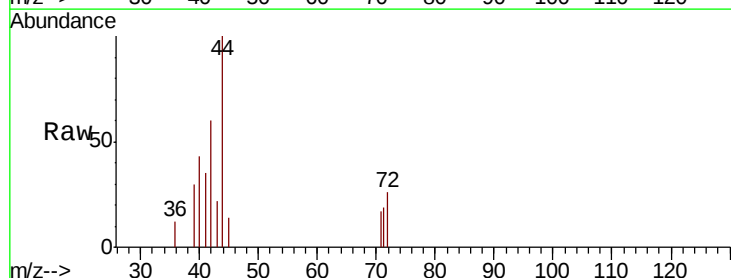
Tgt Ion: 42 Resp: 900

Ion Ratio Lower Upper

42 100

72 35.0 37.4 56.0#

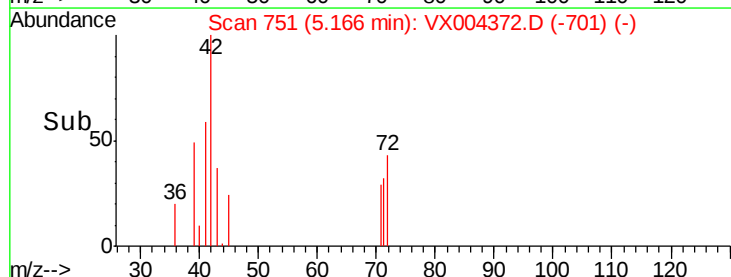
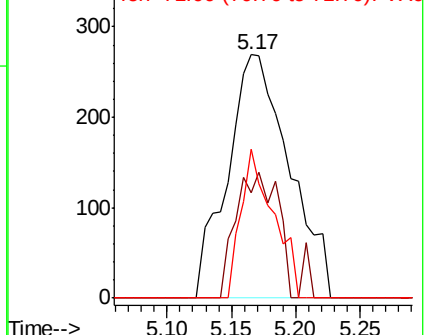
71 32.2 34.5 51.7#

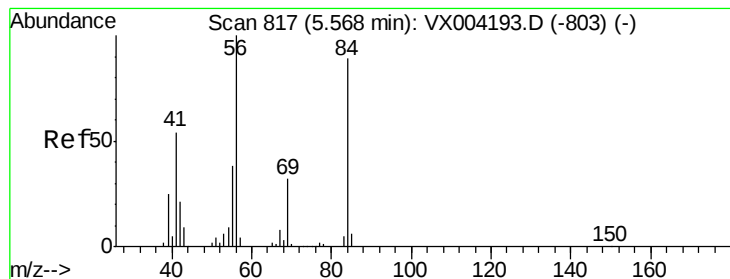


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 0.91 ug/l

RT: 5.66 min Scan# 832

Delta R.T. 0.09 min

Lab File: VX004372.D

Acq: 05 Sep 2018 15:58

Instrument :

MSVOA_X

ClientSampleId :

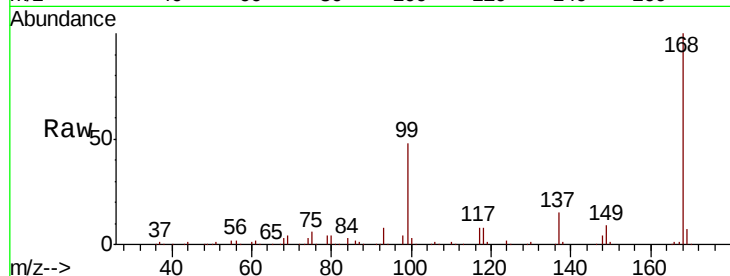
Tot Ion: 56 Resp: 5320

Ion Ratio Lower Upper

56 100

69 216.5 25.4 38.2#

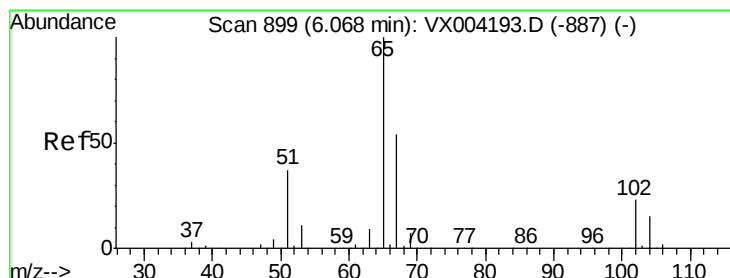
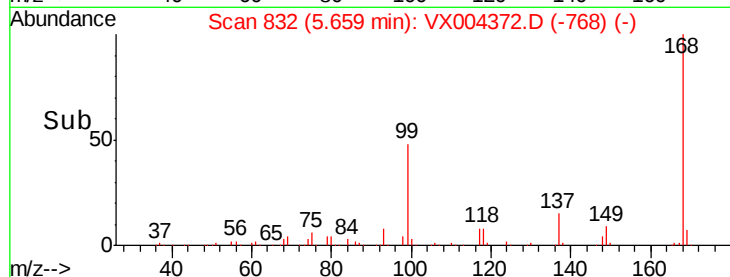
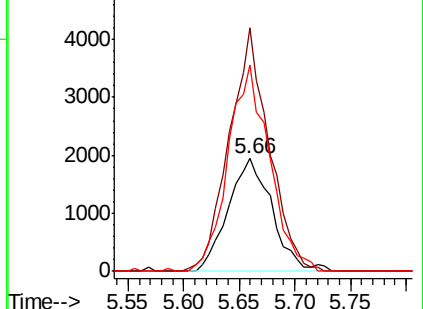
84 183.2 71.4 107.2#



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: 50.37 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.00 min

Lab File: VX004372.D

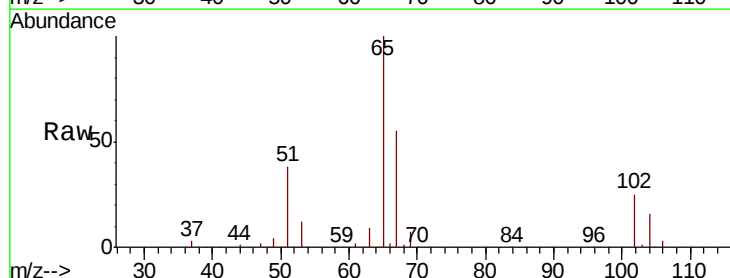
Acq: 05 Sep 2018 15:58

Tgt Ion: 65 Resp: 211093

Ion Ratio Lower Upper

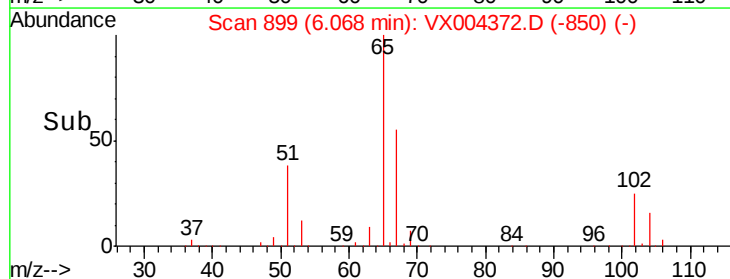
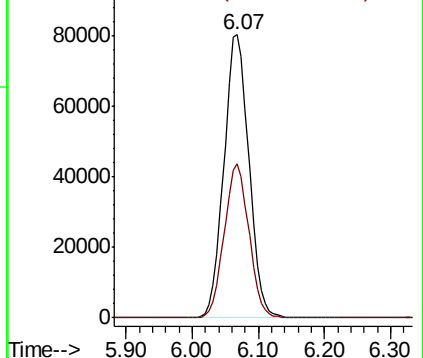
65 100

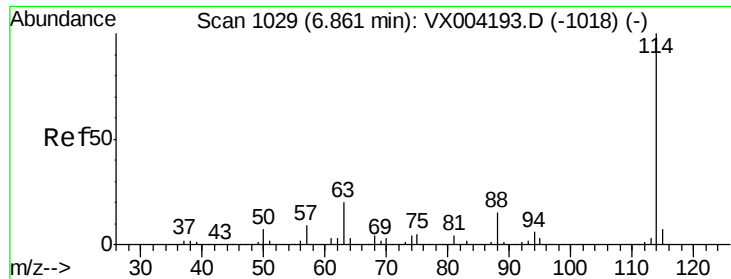
67 53.6 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

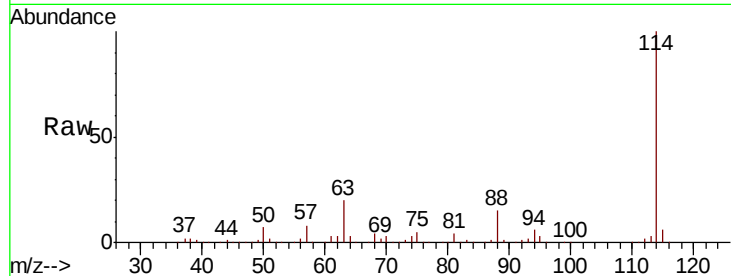




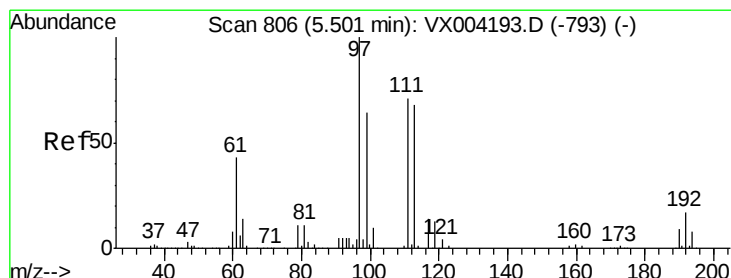
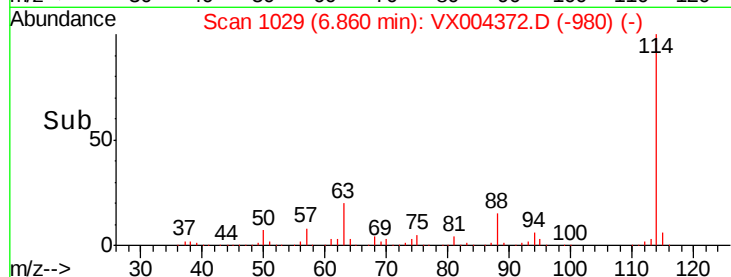
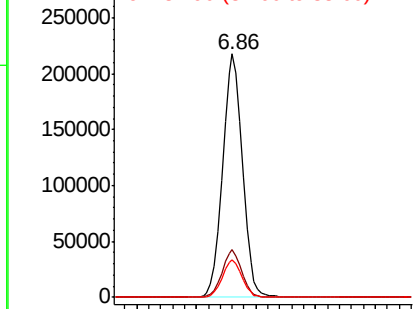
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. -0.00 min
 Lab File: VX004372.D
 Acq: 05 Sep 2018 15:58

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion:114 Resp: 505174
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 39.0
 88 15.3 0.0 30.4

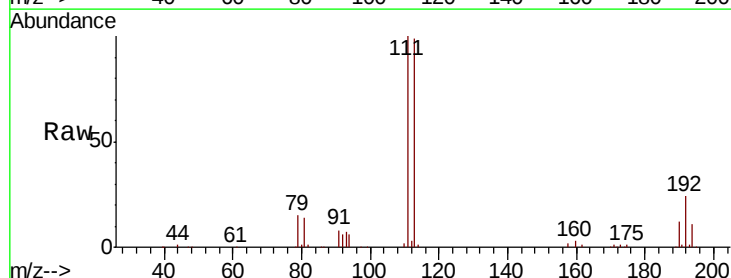


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

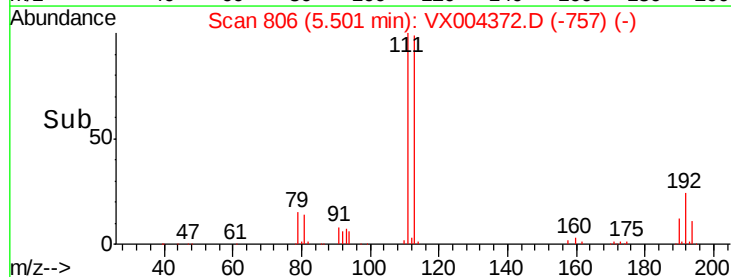
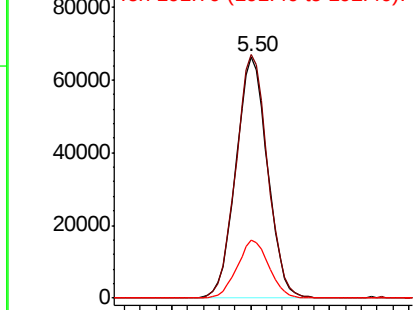


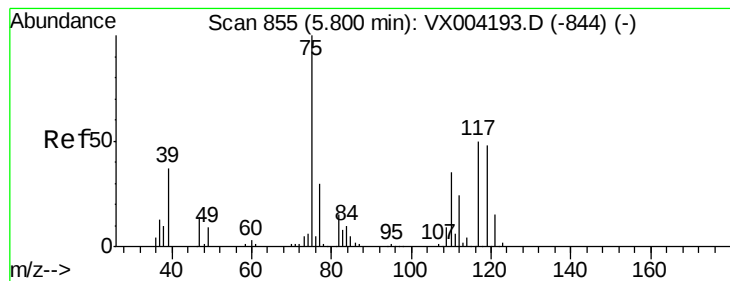
#35
 Dibromofluoromethane
 Concen: 49.17 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004372.D
 Acq: 05 Sep 2018 15:58

Tgt Ion:113 Resp: 184785
 Ion Ratio Lower Upper
 113 100
 111 101.4 82.4 123.6
 192 24.1 19.4 29.2



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: 3.66 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.14 min

Lab File: VX004372.D

Acq: 05 Sep 2018 15:58

Instrument :

MSVOA_X

ClientSampleId :

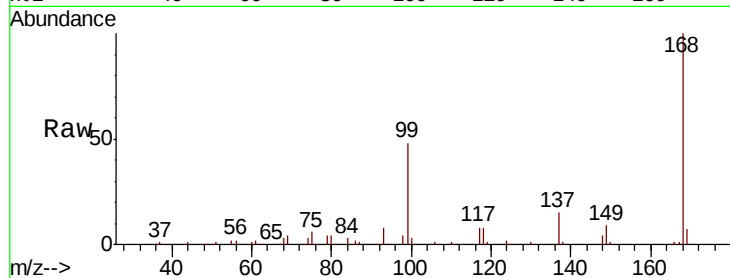
Tot Ion: 75 Resp: 20763

Ion Ratio Lower Upper

75 100

110 9.6 18.0 54.0#

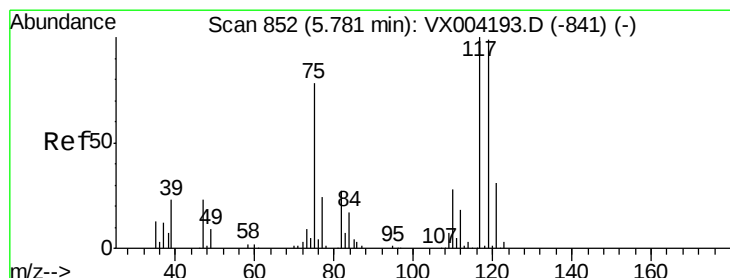
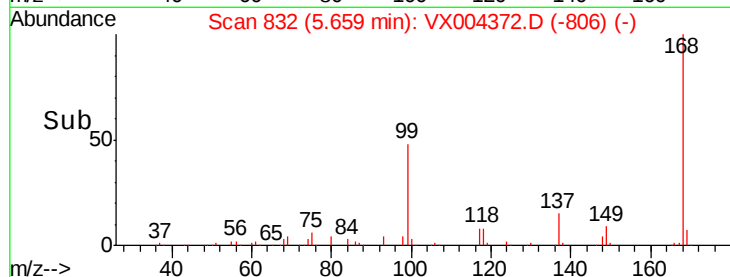
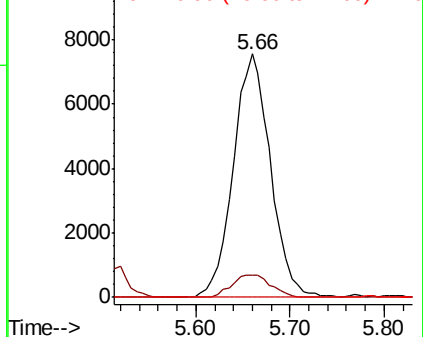
77 0.0 24.6 36.8#



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: 5.16 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.12 min

Lab File: VX004372.D

Acq: 05 Sep 2018 15:58

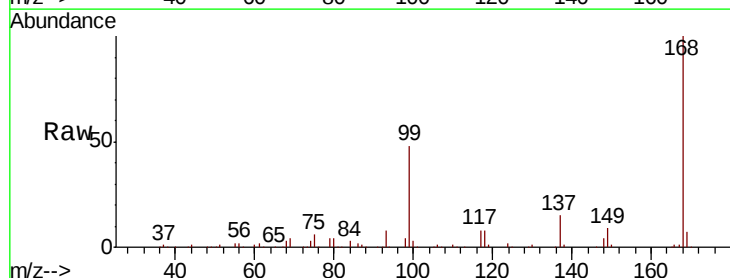
Tgt Ion: 117 Resp: 27553

Ion Ratio Lower Upper

117 100

119 7.2 78.8 118.2#

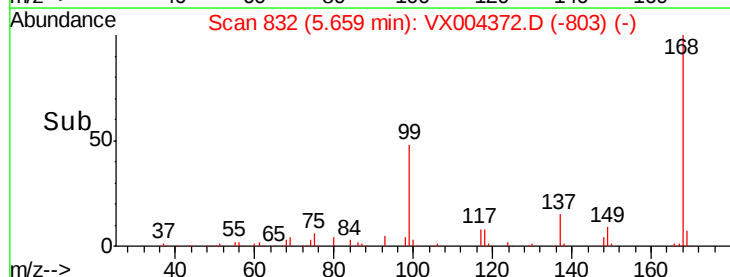
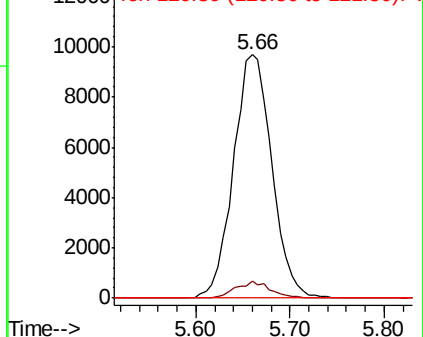
121 0.0 24.9 37.3#

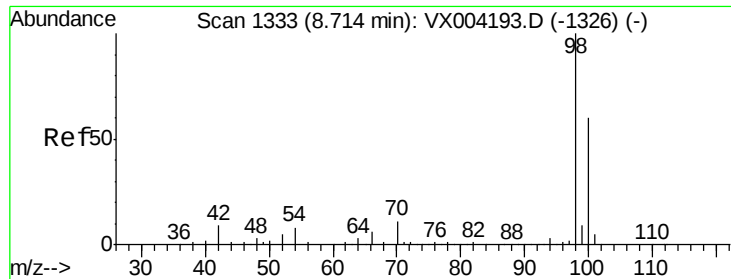


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

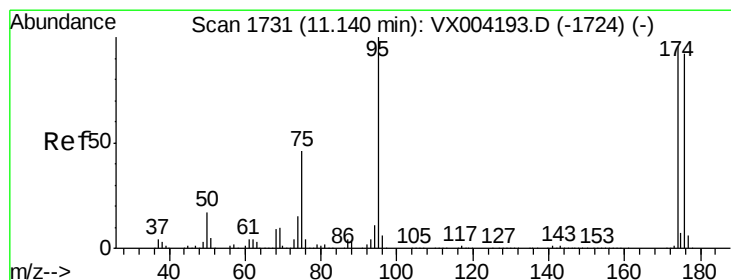
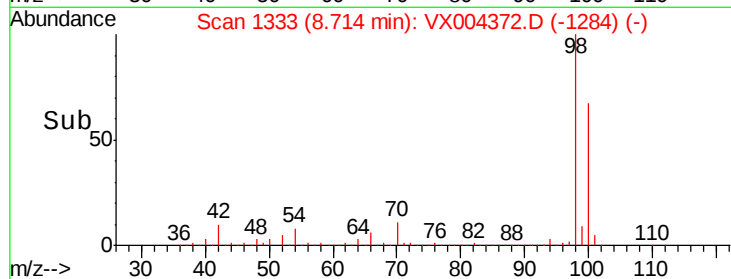
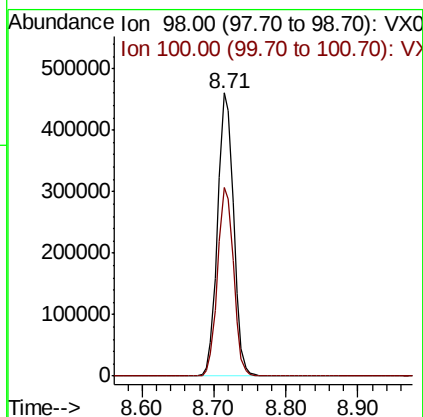
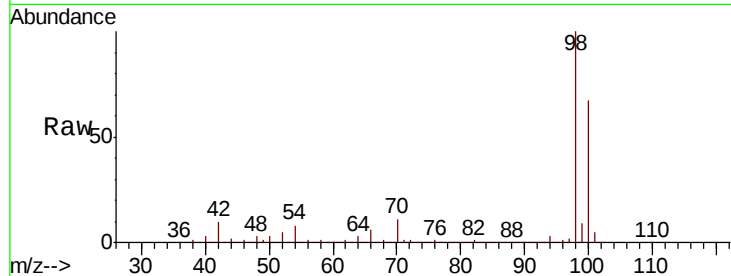




#50
Toluene-d8
Concen: 49.89 ug/l
RT: 8.71 min Scan# 1333
Delta R.T. -0.00 min
Lab File: VX004372.D
Acq: 05 Sep 2018 15:58

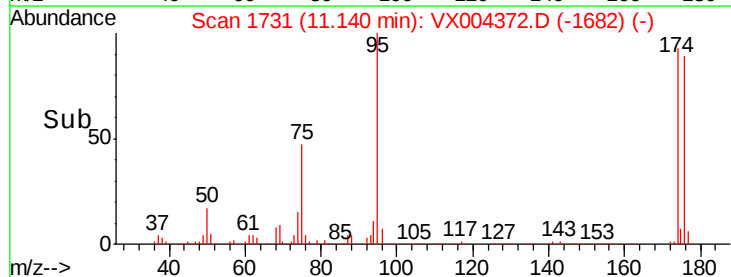
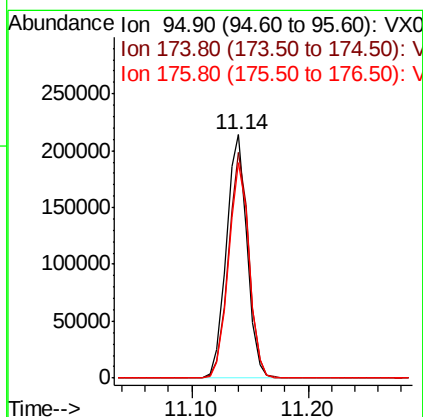
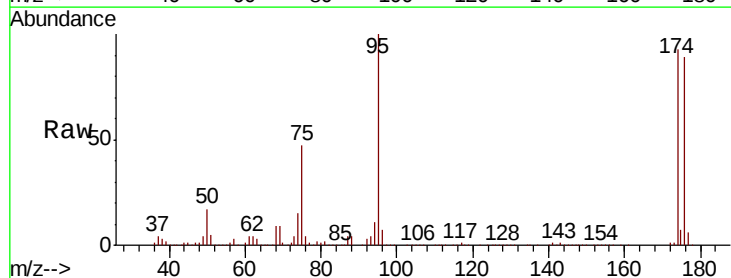
Instrument :
MSVOA_X
ClientSampleId :

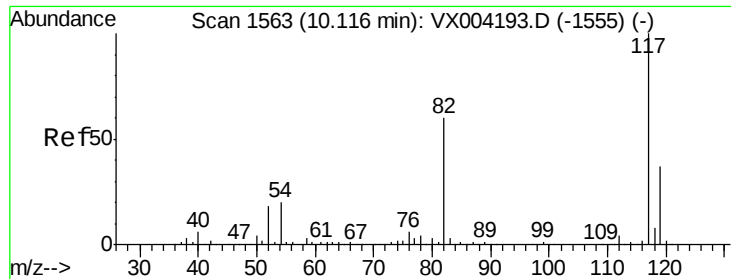
Tot Ion: 98 Resp: 707700
Ion Ratio Lower Upper
98 100
100 66.6 52.9 79.3



#62
4-Bromofluorobenzene
Concen: 49.81 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX004372.D
Acq: 05 Sep 2018 15:58

Tgt Ion: 95 Resp: 263651
Ion Ratio Lower Upper
95 100
174 92.2 0.0 185.2
176 88.6 0.0 178.6





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX004372.D

Acq: 05 Sep 2018 15:58

Instrument :

MSVOA_X

ClientSampled :

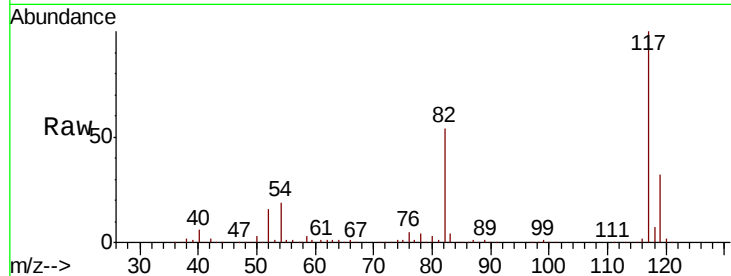
Tot Ion:117 Resp: 457448

Ion Ratio Lower Upper

117 100

82 53.6 47.8 71.6

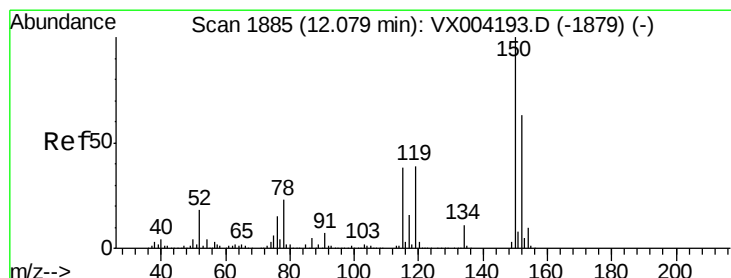
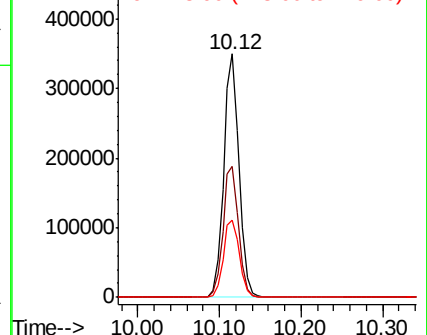
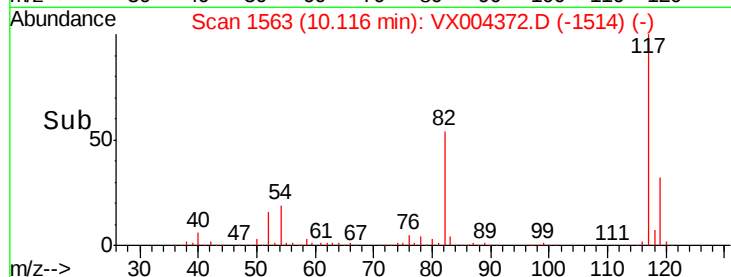
119 31.6 29.3 43.9



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: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004372.D

Acq: 05 Sep 2018 15:58

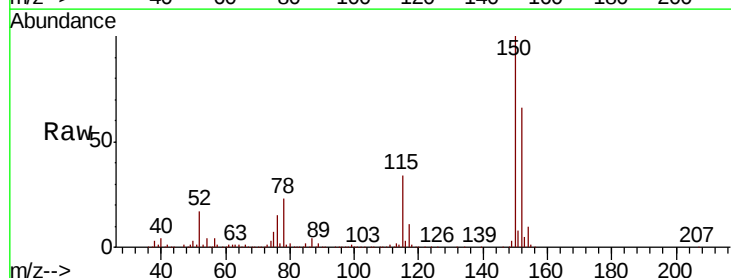
Tgt Ion:152 Resp: 284306

Ion Ratio Lower Upper

152 100

115 52.8 39.0 117.0

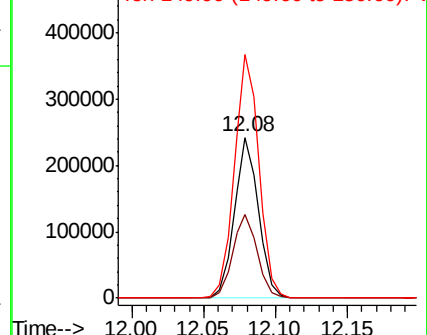
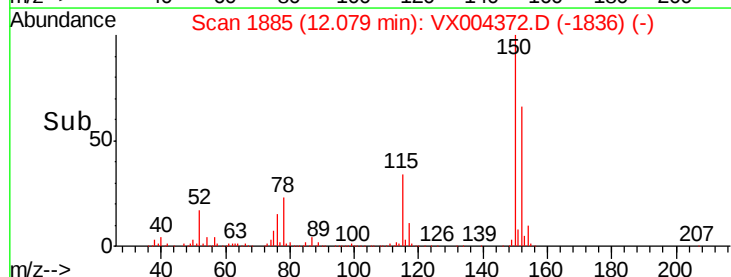
150 154.8 0.0 351.0

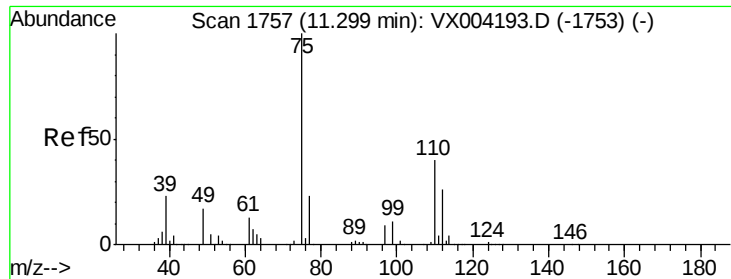


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.54 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004372.D

Acq: 05 Sep 2018 15:58

Instrument :

MSVOA_X

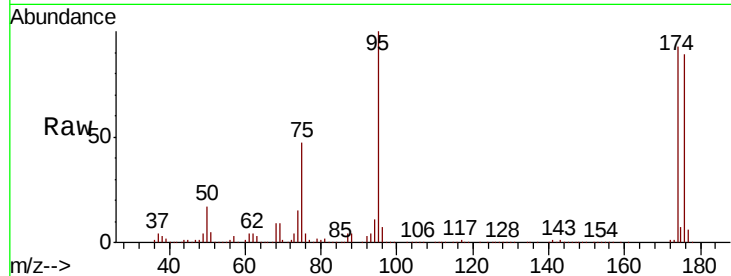
ClientSampleId :

Tot Ion: 75 Resp: 124547

Ion Ratio Lower Upper

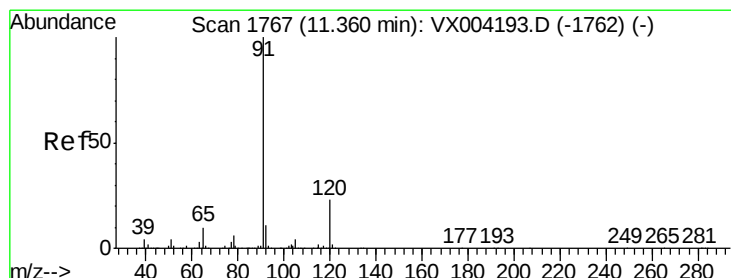
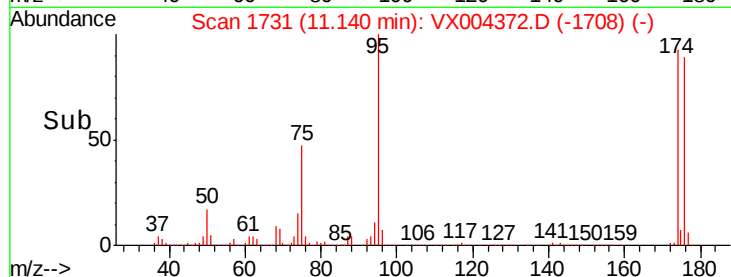
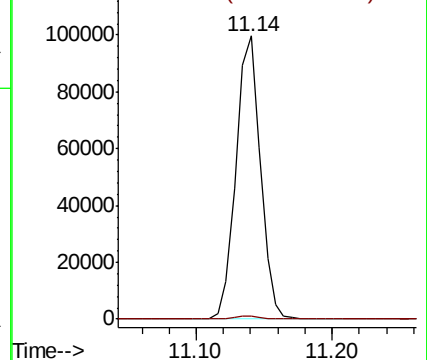
75 100

77 1.4 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#78

n-propylbenzene

Concen: 0.39 ug/l

RT: 11.36 min Scan# 1767

Delta R.T. -0.00 min

Lab File: VX004372.D

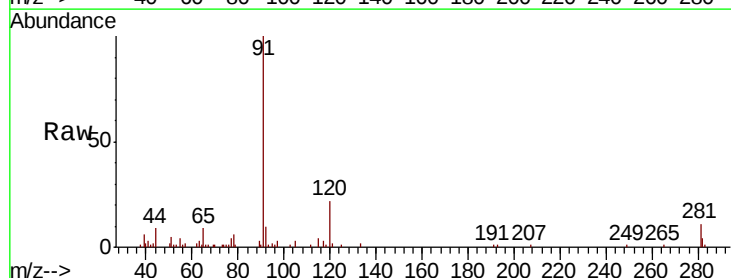
Acq: 05 Sep 2018 15:58

Tgt Ion: 91 Resp: 8408

Ion Ratio Lower Upper

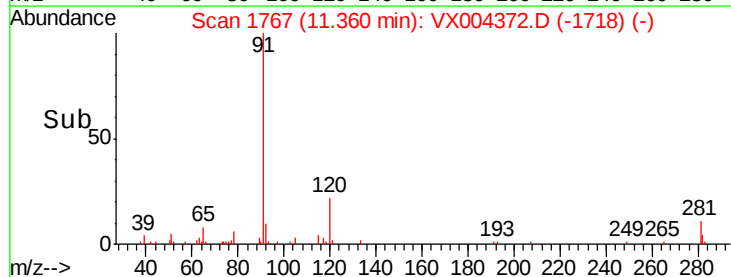
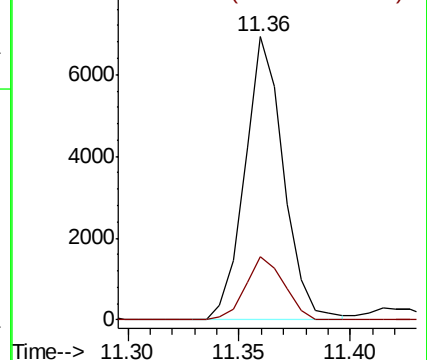
91 100

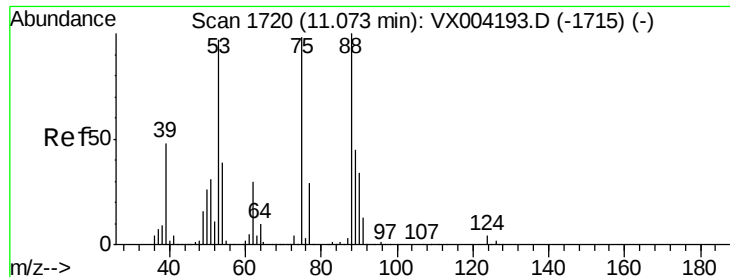
120 21.9 11.9 35.9



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

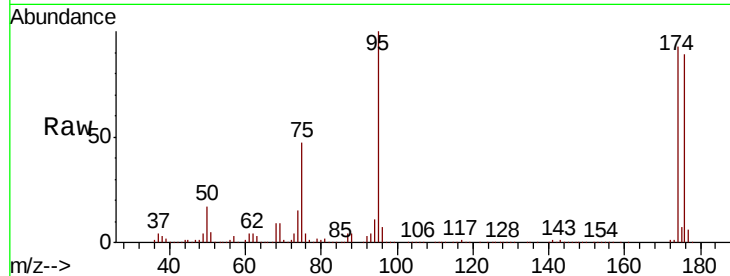




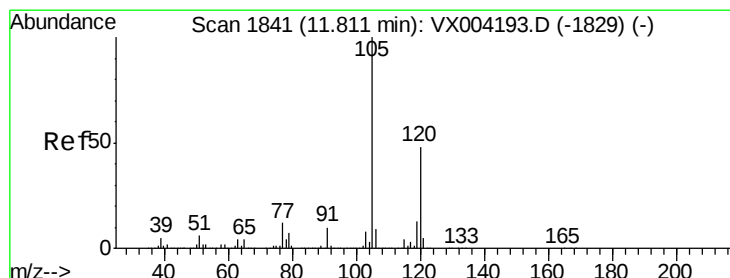
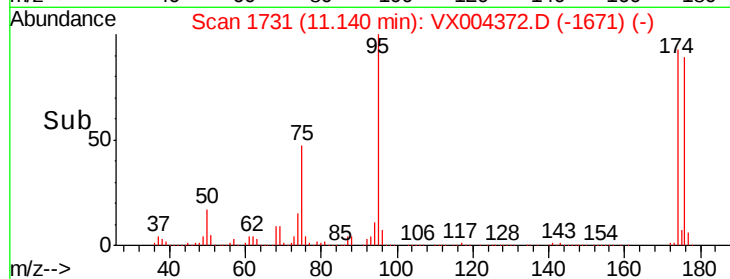
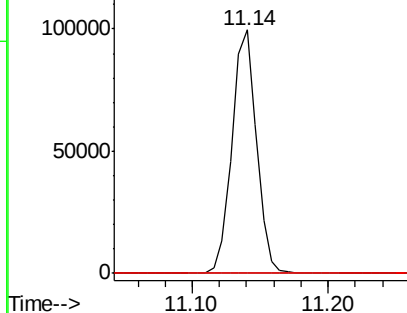
#81
trans-1,4-Dichloro-2-butene
Concen: 69.89 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.07 min
Lab File: VX004372.D
Acq: 05 Sep 2018 15:58

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.2	80.1	120.1#
89	0.0	37.2	55.8#

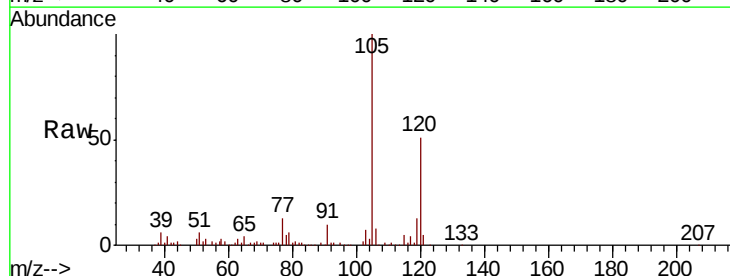


Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0

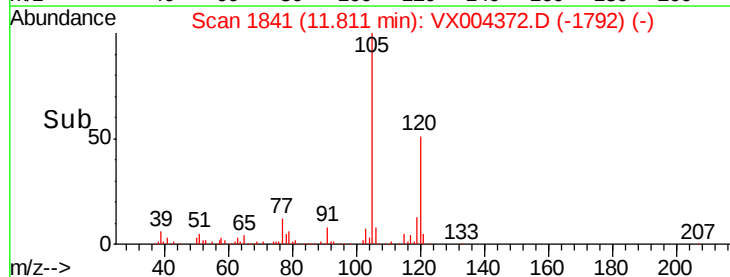
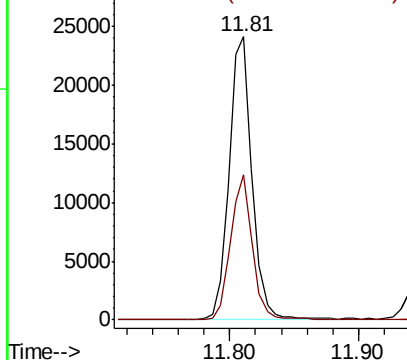


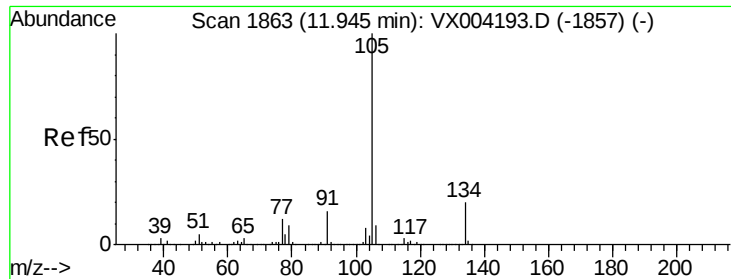
#84
1,2,4-Trimethylbenzene
Concen: 1.90 ug/l
RT: 11.81 min Scan# 1841
Delta R.T. -0.00 min
Lab File: VX004372.D
Acq: 05 Sep 2018 15:58

Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.6	23.2	69.6



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

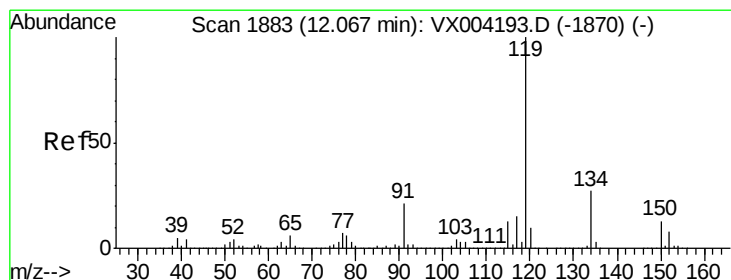
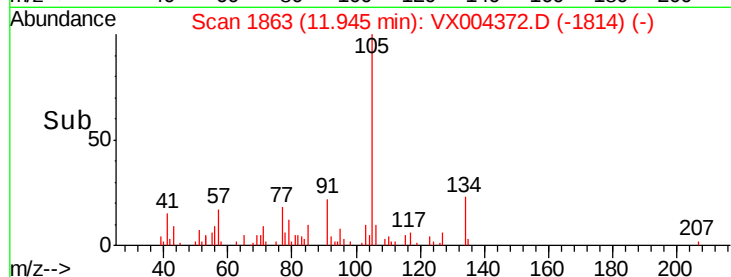
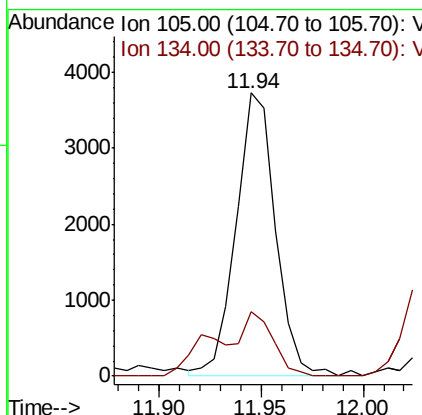
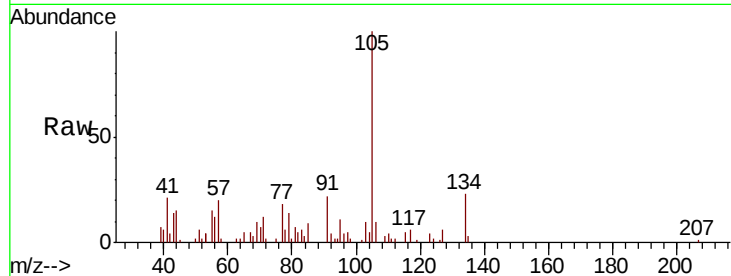




#85
 sec-Butylbenzene
 Concen: 0.27 ug/l
 RT: 11.94 min Scan# 1863
 Delta R.T. -0.00 min
 Lab File: VX004372.D
 Acq: 05 Sep 2018 15:58

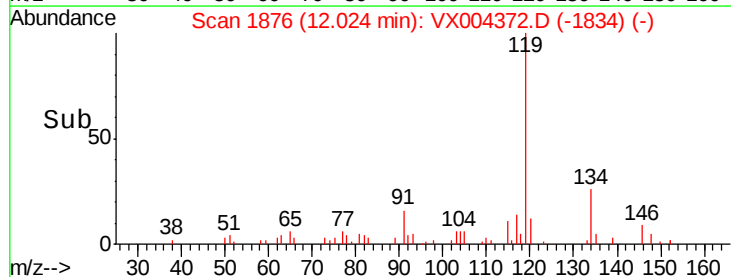
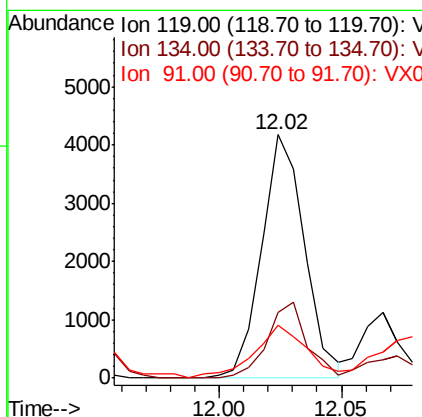
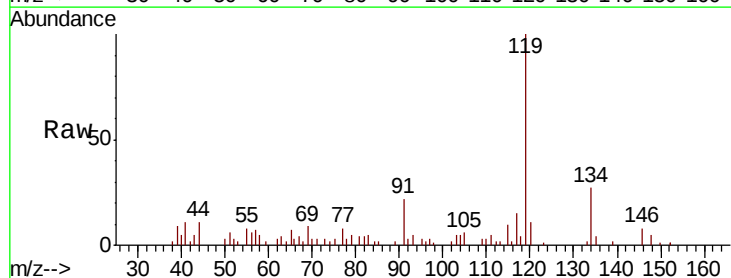
Instrument :
 MSVOA_X
 ClientSampleId :

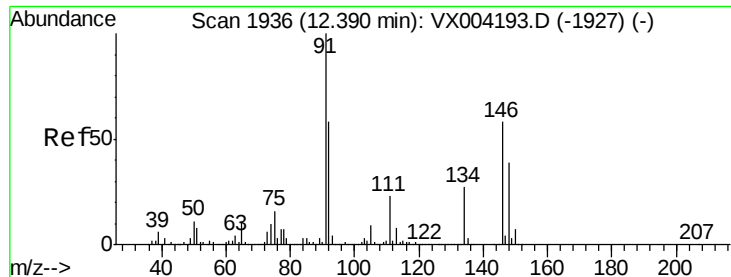
Tot Ion:105 Resp: 5002
 Ion Ratio Lower Upper
 105 100
 134 18.9 10.5 31.5



#86
 p-Isopropyltoluene
 Concen: 0.31 ug/l
 RT: 12.02 min Scan# 1876
 Delta R.T. -0.04 min
 Lab File: VX004372.D
 Acq: 05 Sep 2018 15:58

Tgt Ion:119 Resp: 5133
 Ion Ratio Lower Upper
 119 100
 134 28.9 13.4 40.2
 91 26.7 10.9 32.7

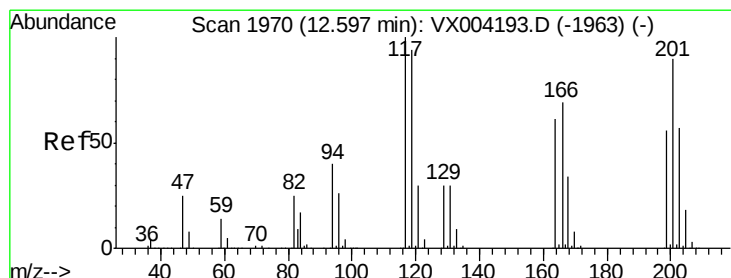
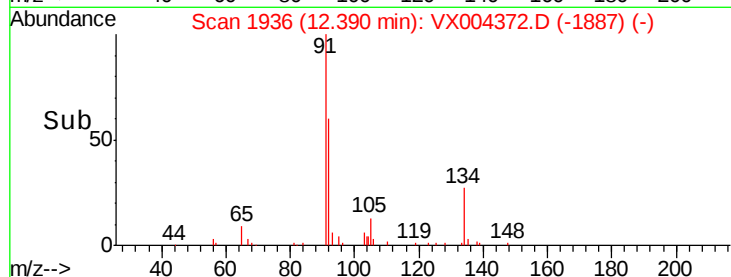
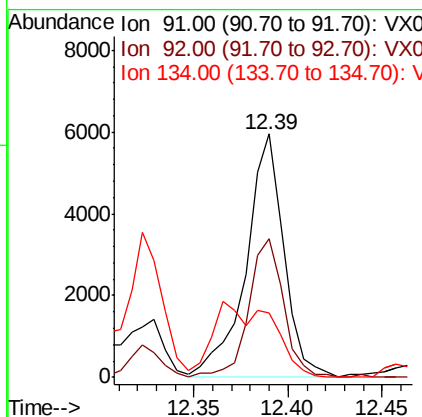
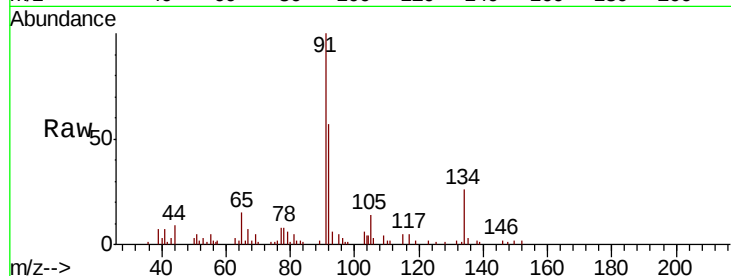




#89
n-Butylbenzene
Concen: 0.62 ug/l
RT: 12.39 min Scan# 1936
Delta R.T. -0.00 min
Lab File: VX004372.D
Acq: 05 Sep 2018 15:58

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 91 Resp: 8298
Ion Ratio Lower Upper
91 100
92 52.3 27.3 81.9
134 0.0 13.6 40.7#



#90
Hexachloroethane
Concen: 0.28 ug/l
RT: 12.59 min Scan# 1968
Delta R.T. -0.01 min
Lab File: VX004372.D
Acq: 05 Sep 2018 15:58

Tgt Ion: 117 Resp: 655
Ion Ratio Lower Upper
117 100
201 0.0 46.9 140.6#

