

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072318\
 Data File : VX003630.D
 Acq On : 24 Jul 2018 04:03
 Operator : JC/SP
 Sample : J4073-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 24 08:54:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071918W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 17:09:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	249075	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	357990	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	337101	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	188639	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	141110	47.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.72%	
35) Dibromofluoromethane	5.51	113	132740	48.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.36%	
50) Toluene-d8	8.72	98	497875	48.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.16%	
62) 4-Bromofluorobenzene	11.14	95	169136	45.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.44%	

Target Compounds

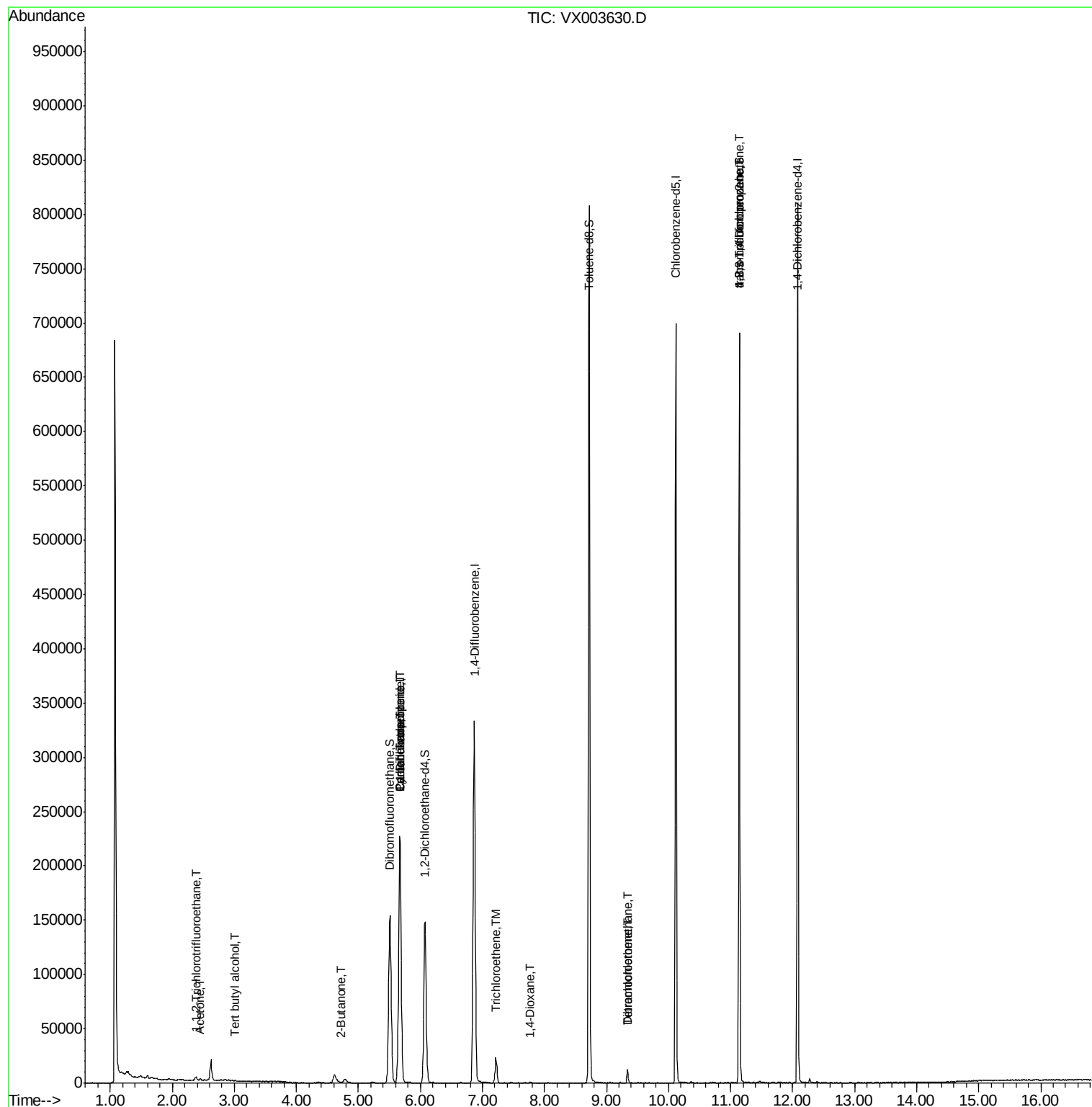
						Qvalue
2) Dichlorodifluoromethane	1.20	85	134	Below Cal	#	43
3) Chloromethane	1.33	50	429	Below Cal		96
5) Bromomethane	1.61	94	82	Below Cal	#	3
9) 1,1,2-Trichlorotrifluoroet	2.38	101	886	0.32	ug/l	89
11) Tert butyl alcohol	3.02	59	211	0.36	ug/l #	73
16) Acetone	2.45	43	1176	1.06	ug/l	94
20) Methylene Chloride	2.87	84	28	Below Cal	#	65
25) 2-Butanone	4.71	43	673	0.36	ug/l #	52
31) Cyclohexane	5.67	56	3310	0.75	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	14238	3.68	ug/l #	49
38) Carbon Tetrachloride	5.67	117	19932	5.26	ug/l #	17
44) Trichloroethene	7.22	130	10253	2.95	ug/l	97
49) 1,4-Dioxane	7.77	88	266	4.00	ug/l #	71
60) Dibromochloromethane	9.34	129	2432	0.84	ug/l #	11
64) Tetrachloroethene	9.34	164	2801	0.68	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	77768	22.95	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	77768	64.46	ug/l #	7

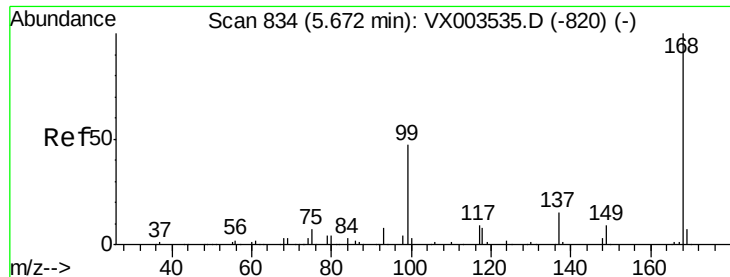
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX003630.D

Acq: 24 Jul 2018 04:03

Instrument :

MSVOA_X

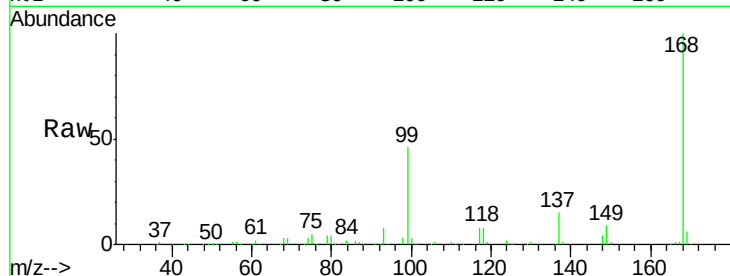
ClientSampleId :

Tot Ion:168 Resp: 249075

Ion Ratio Lower Upper

168 100

99 45.7 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

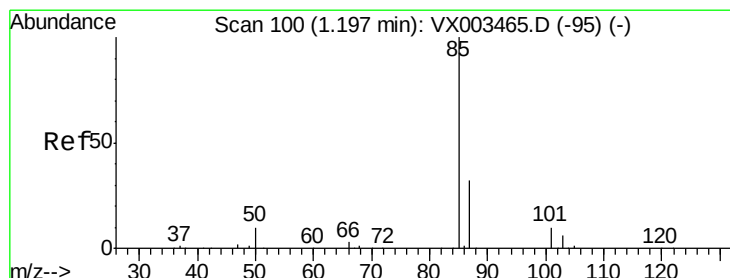
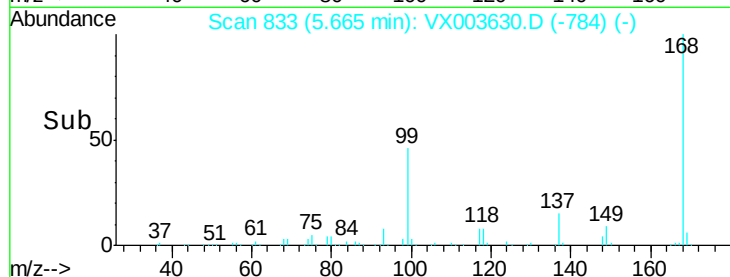
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003630.D

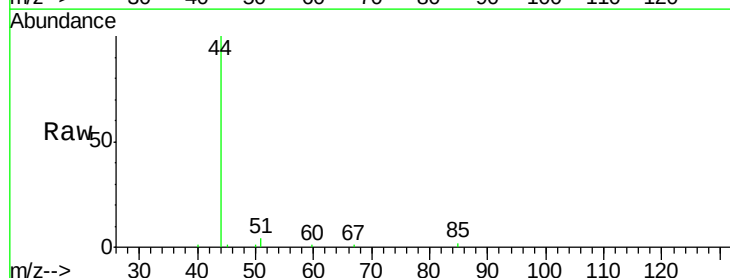
Acq: 24 Jul 2018 04:03

Tgt Ion: 85 Resp: 134

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

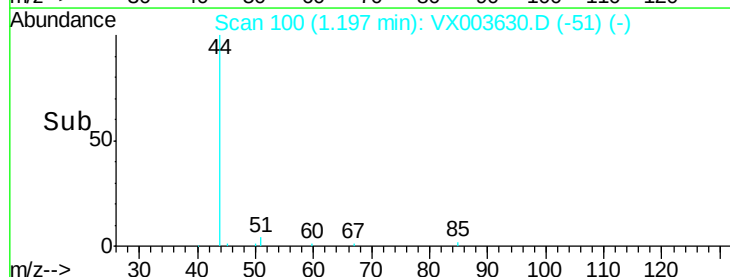
150

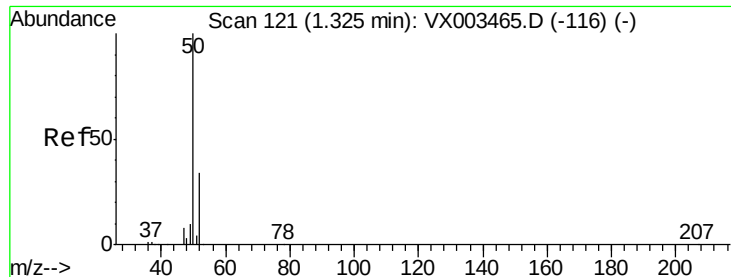
100

50

0

Time--> 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX003630.D

Acq: 24 Jul 2018 04:03

Instrument :

MSVOA_X

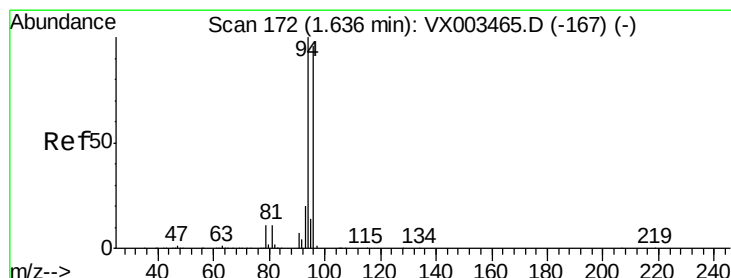
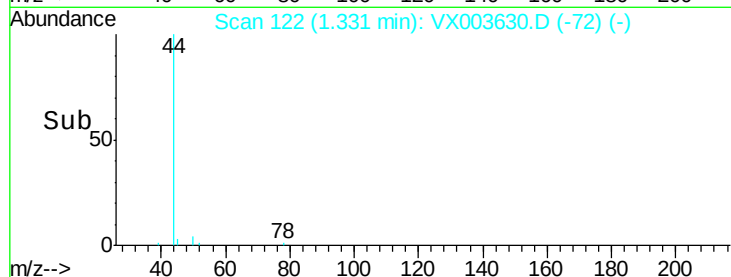
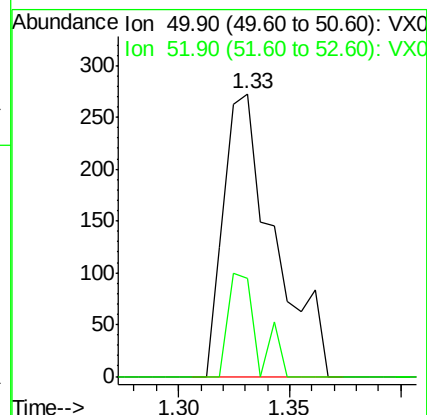
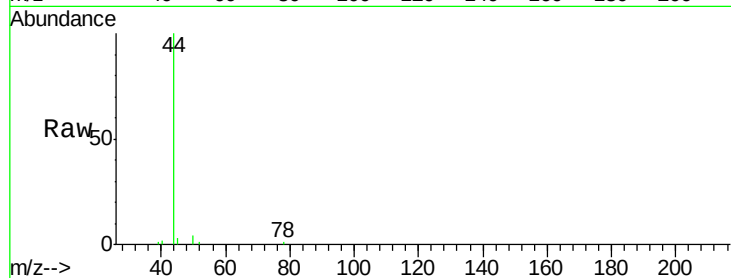
ClientSampleId :

Tot Ion: 50 Resp: 429

Ion Ratio Lower Upper

50 100

52 34.4 25.7 38.5



#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 168

Delta R.T. -0.02 min

Lab File: VX003630.D

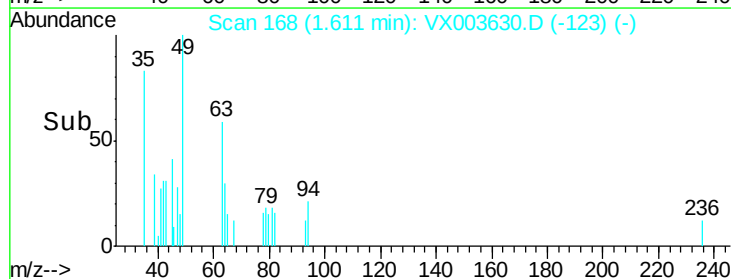
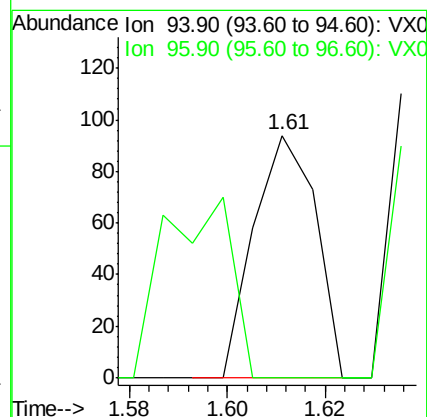
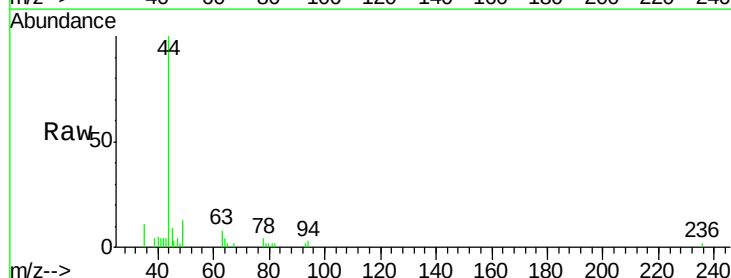
Acq: 24 Jul 2018 04:03

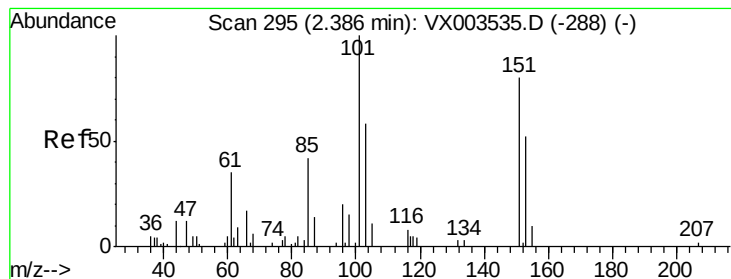
Tgt Ion: 94 Resp: 82

Ion Ratio Lower Upper

94 100

96 0.0 74.9 112.3#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.32 ug/l

RT: 2.38 min Scan# 294

Delta R.T. -0.00 min

Lab File: VX003630.D

Acq: 24 Jul 2018 04:03

Instrument :

MSVOA_X

ClientSampleId :

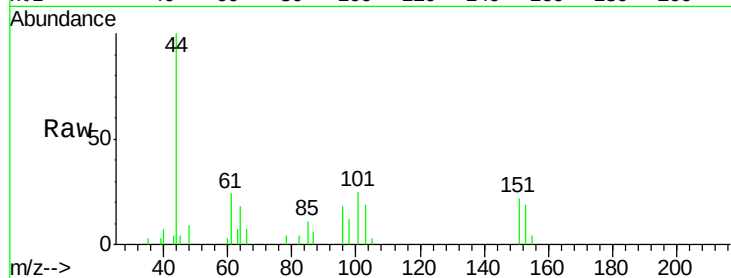
Tot Ion:101 Resp: 886

Ion Ratio Lower Upper

101 100

85 37.0 36.0 54.0

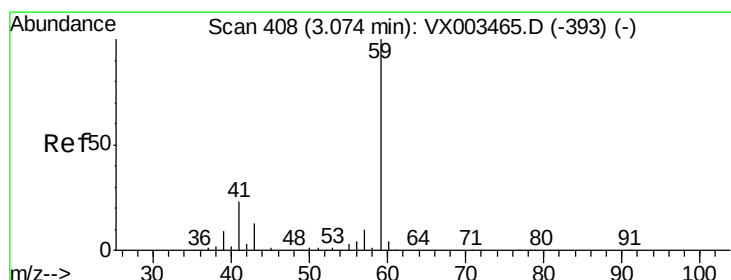
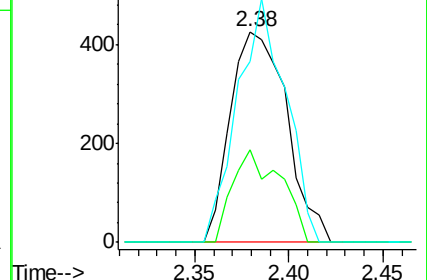
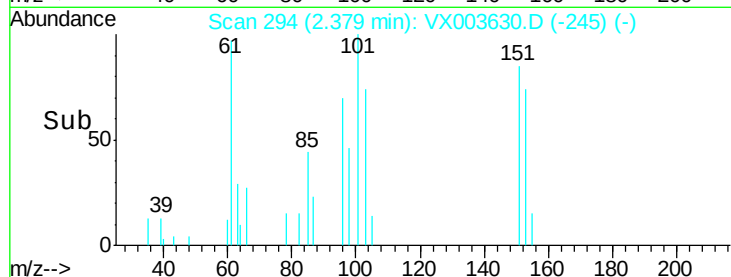
151 98.8 70.9 106.3



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 0.36 ug/l

RT: 3.02 min Scan# 399

Delta R.T. -0.05 min

Lab File: VX003630.D

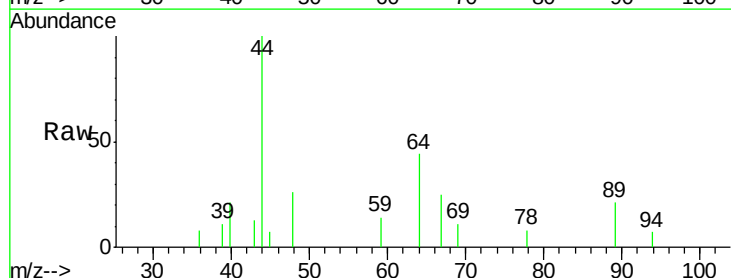
Acq: 24 Jul 2018 04:03

Tgt Ion: 59 Resp: 211

Ion Ratio Lower Upper

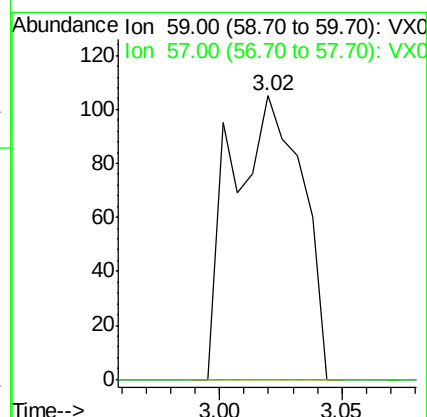
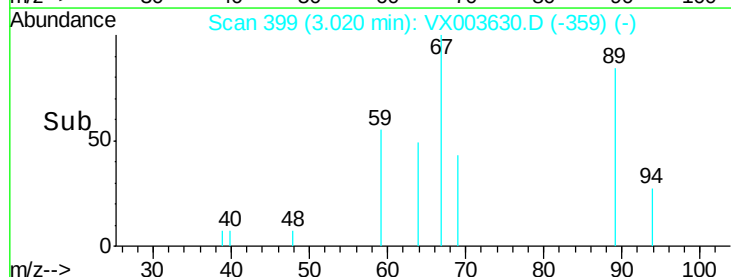
59 100

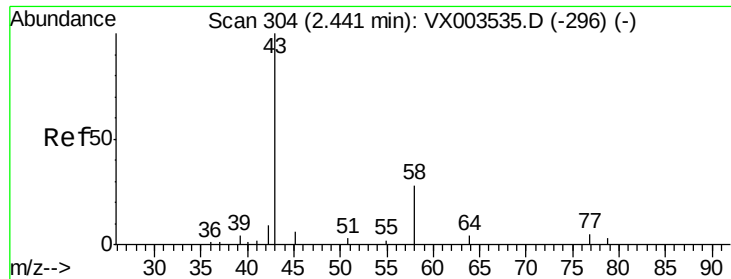
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 1.06 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX003630.D

Acq: 24 Jul 2018 04:03

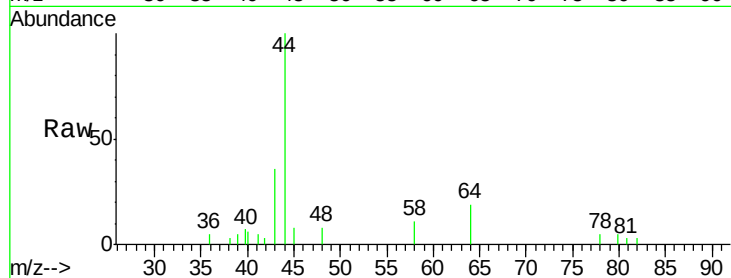
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 1176

Ion Ratio Lower Upper

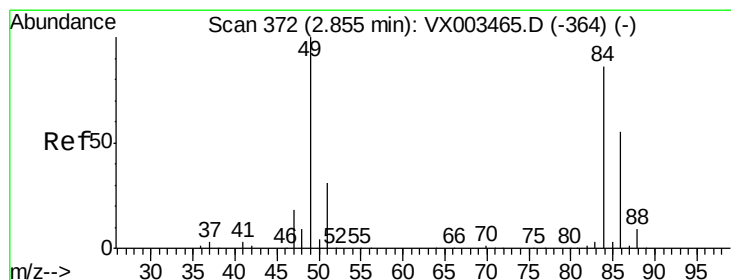
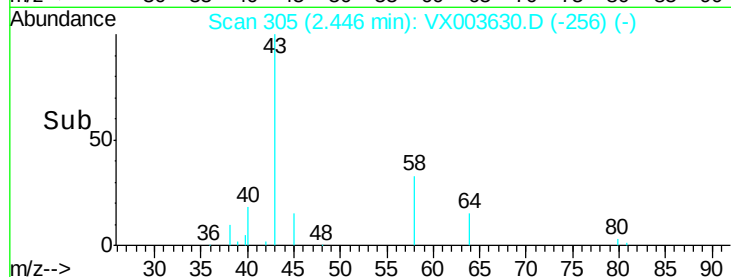
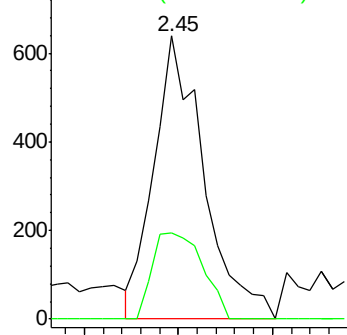
43 100

58 30.7 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.87 min Scan# 374

Delta R.T. 0.01 min

Lab File: VX003630.D

Acq: 24 Jul 2018 04:03

Tgt Ion: 84 Resp: 28

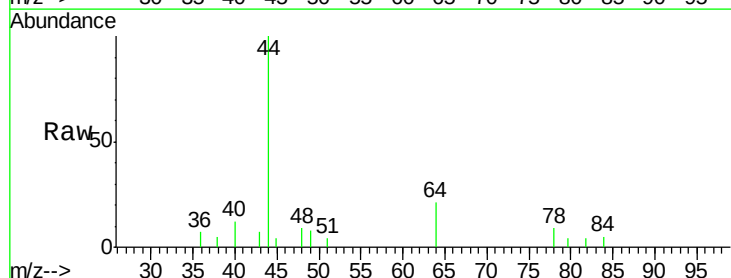
Ion Ratio Lower Upper

84 100

49 146.8 107.8 161.6

51 66.2 32.8 49.2#

86 0.0 52.5 78.7#

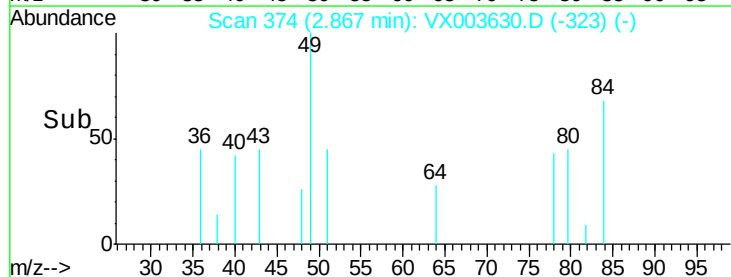
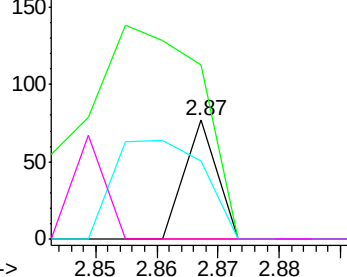


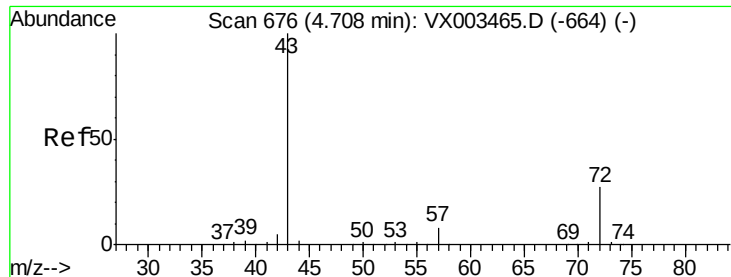
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 0.36 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.00 min

Lab File: VX003630.D

Acq: 24 Jul 2018 04:03

Instrument :

MSVOA_X

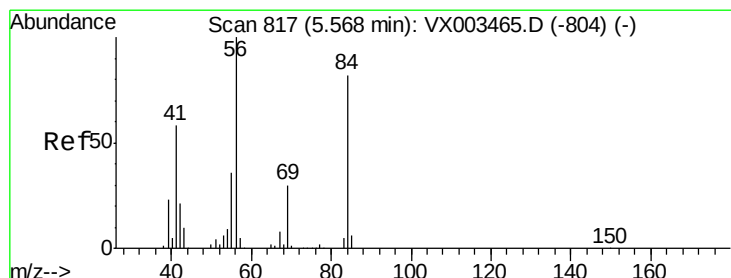
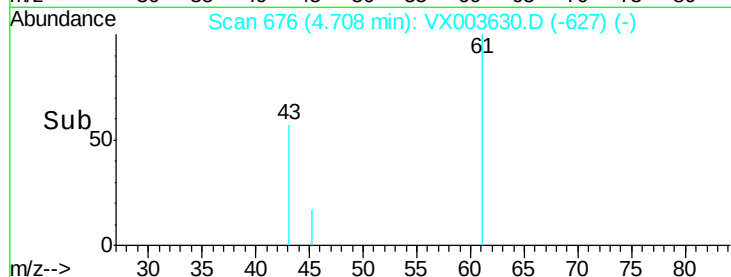
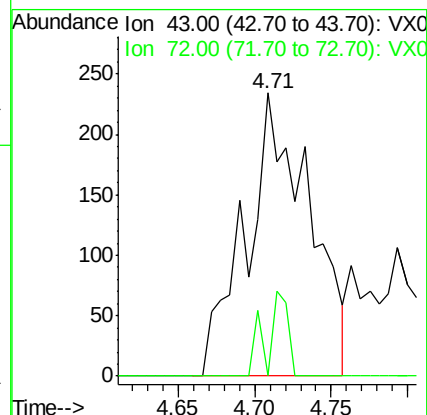
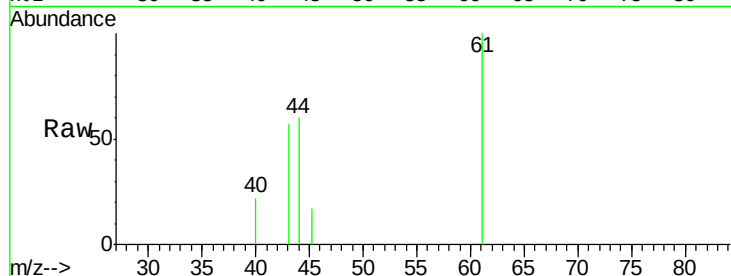
ClientSampleId :

Tot Ion: 43 Resp: 673

Ion Ratio Lower Upper

43 100

72 0.0 18.5 27.7#



#31

Cyclohexane

Concen: 0.75 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.10 min

Lab File: VX003630.D

Acq: 24 Jul 2018 04:03

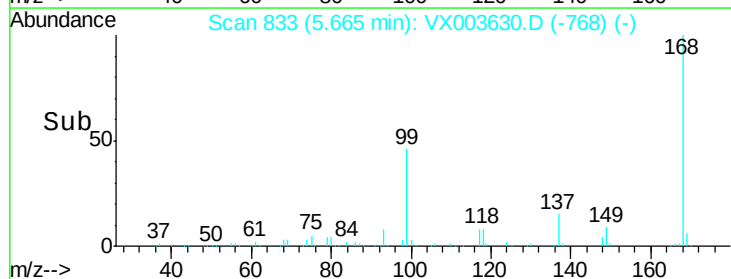
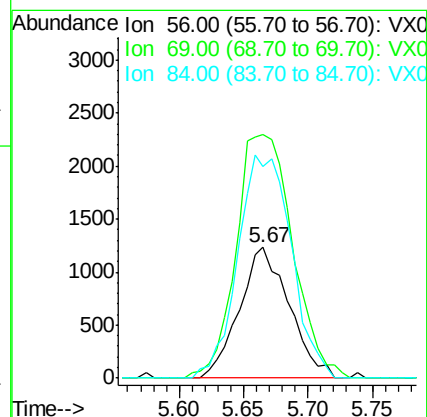
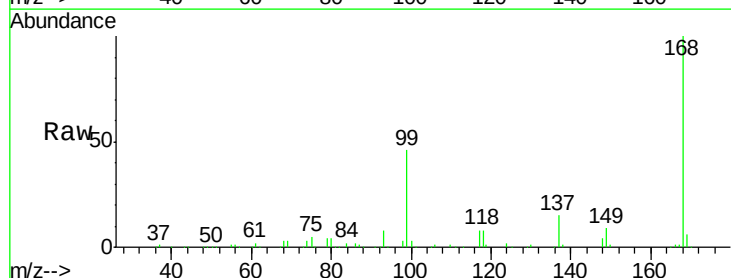
Tgt Ion: 56 Resp: 3310

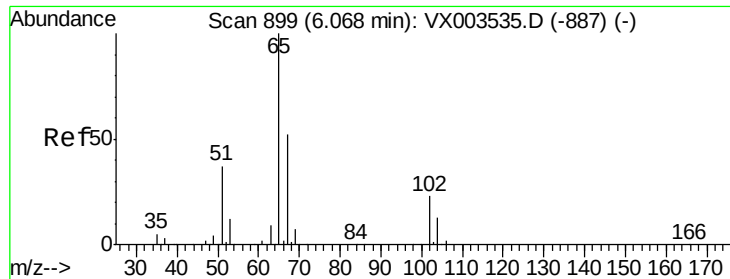
Ion Ratio Lower Upper

56 100

69 182.3 23.7 35.5#

84 162.4 64.1 96.1#

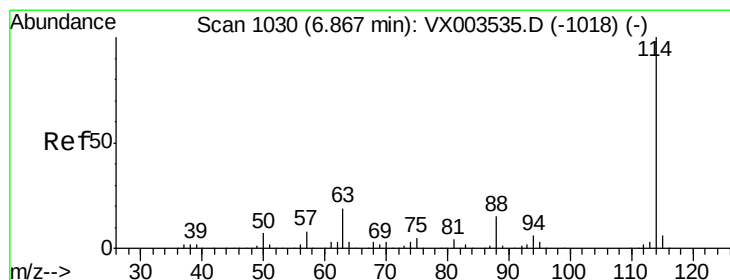
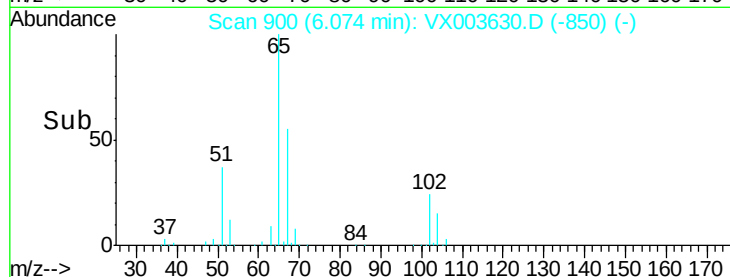
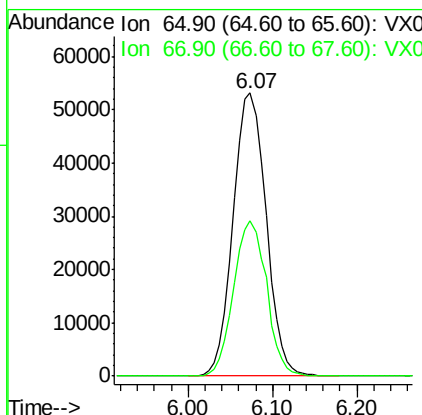
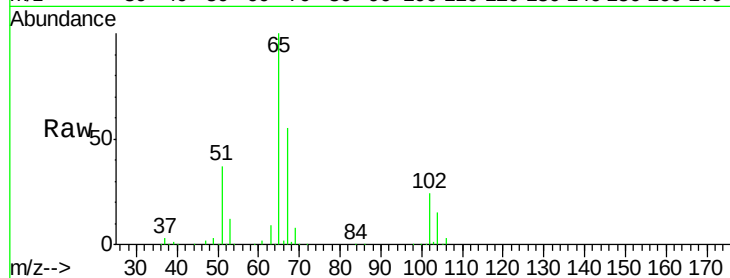




#33
 1,2-Dichloroethane-d4
 Concen: 47.86 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX003630.D
 Acq: 24 Jul 2018 04:03

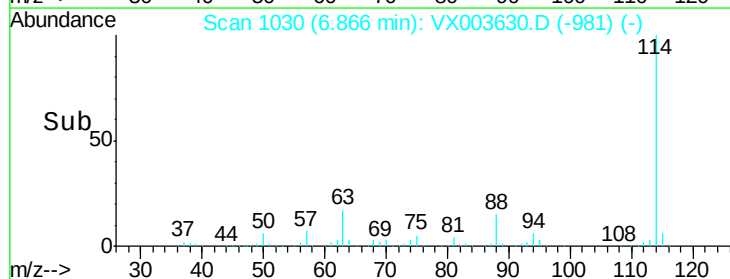
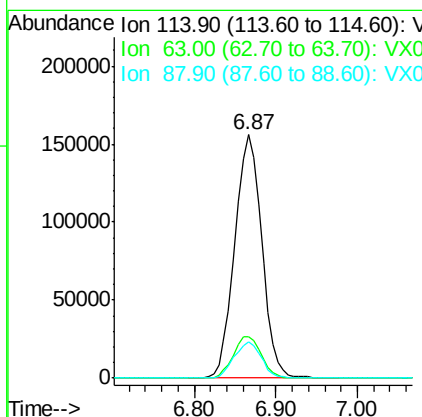
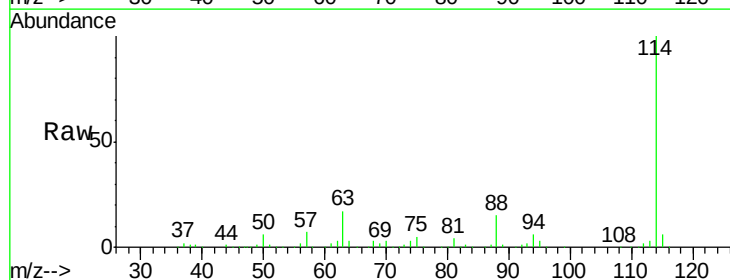
Instrument :
 MSVOA_X
 ClientSampleId :

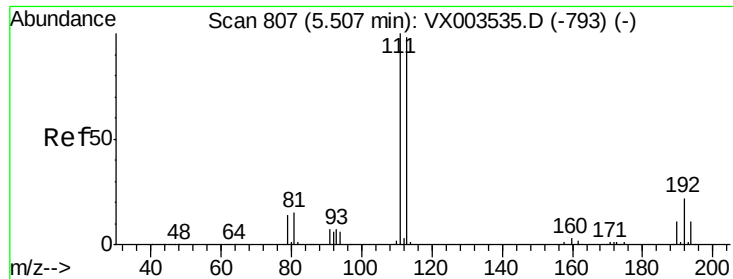
Tot Ion: 65 Resp: 141110
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003630.D
 Acq: 24 Jul 2018 04:03

Tgt Ion: 114 Resp: 357990
 Ion Ratio Lower Upper
 114 100
 63 17.3 0.0 41.4
 88 14.8 0.0 30.0

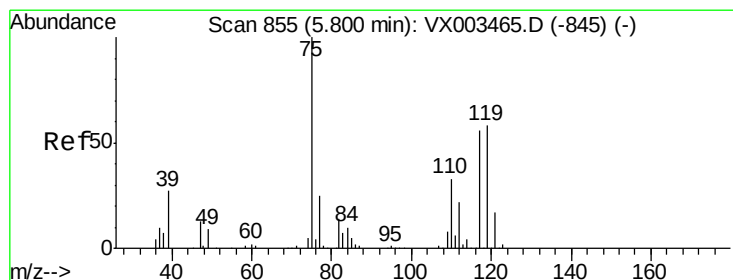
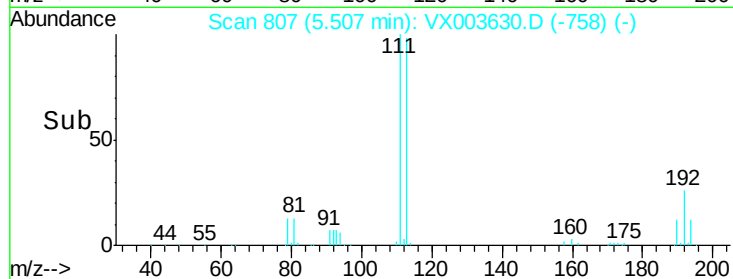
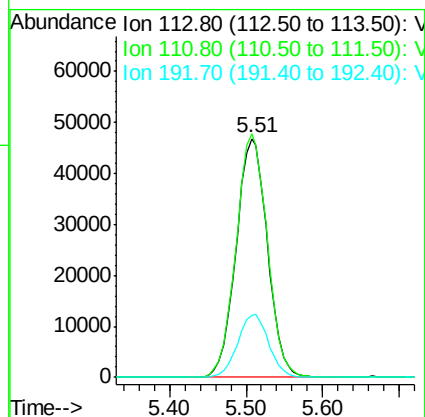
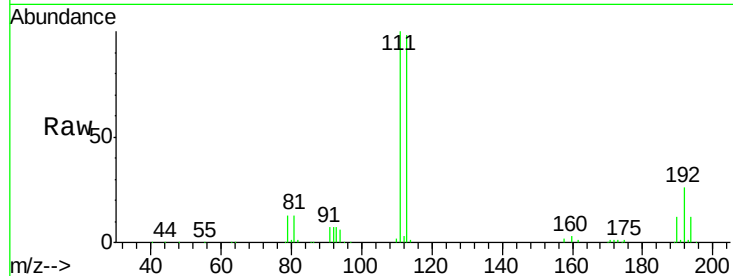




#35
Dibromofluoromethane
Concen: 48.68 ug/l
RT: 5.51 min Scan# 807
Delta R.T. -0.00 min
Lab File: VX003630.D
Acq: 24 Jul 2018 04:03

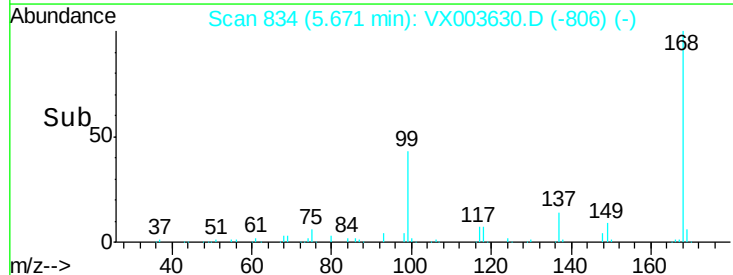
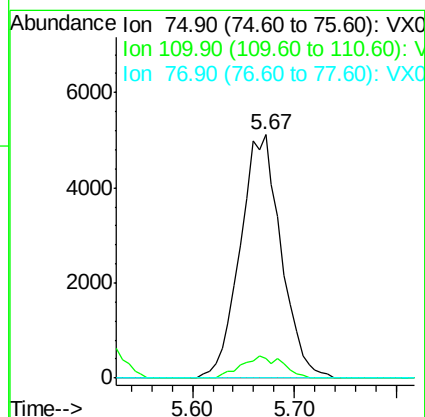
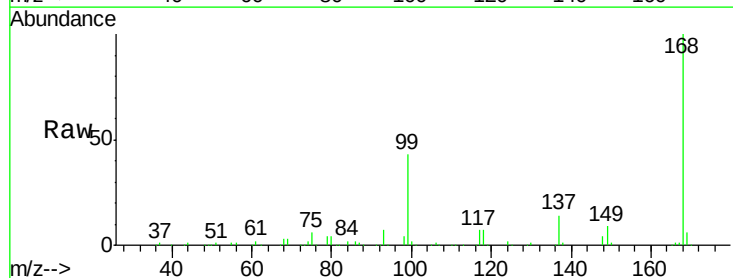
Instrument :
MSVOA_X
ClientSampled :

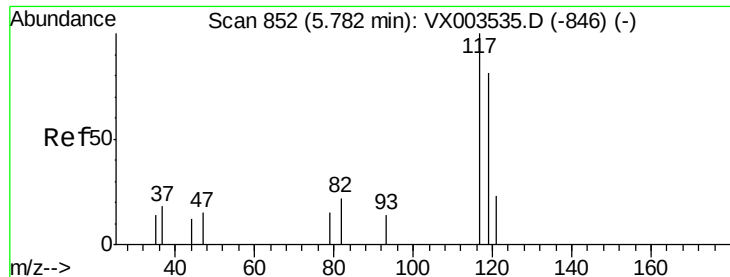
Tot Ion:113 Resp: 132740
Ion Ratio Lower Upper
113 100
111 101.5 81.4 122.0
192 26.2 19.1 28.7



#36
1,1-Dichloropropene
Concen: 3.68 ug/l
RT: 5.67 min Scan# 834
Delta R.T. -0.13 min
Lab File: VX003630.D
Acq: 24 Jul 2018 04:03

Tgt Ion: 75 Resp: 14238
Ion Ratio Lower Upper
75 100
110 9.0 18.1 54.4#
77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.26 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003630.D

Acq: 24 Jul 2018 04:03

Instrument :

MSVOA_X

ClientSampleId :

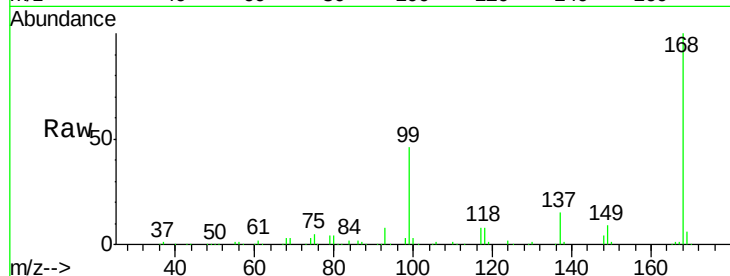
Tot Ion:117 Resp: 19932

Ion Ratio Lower Upper

117 100

119 6.3 77.4 116.0#

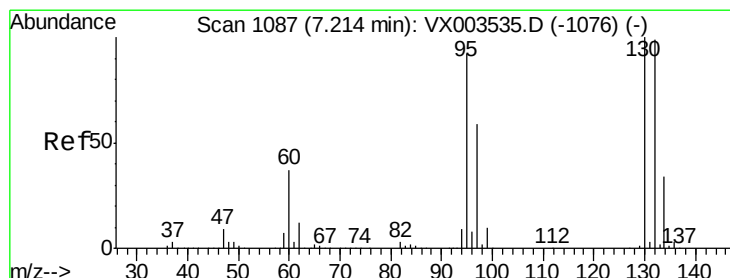
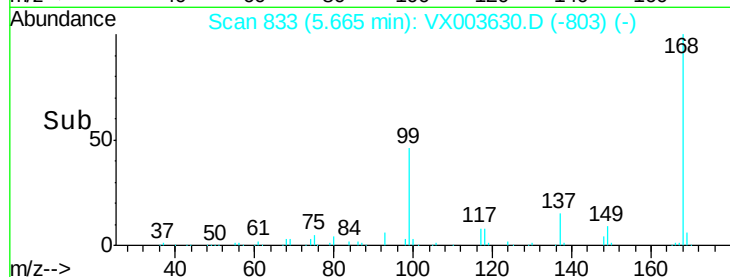
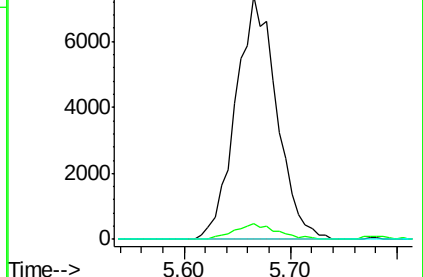
121 0.0 24.4 36.6#



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



#44

Trichloroethene

Concen: 2.95 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX003630.D

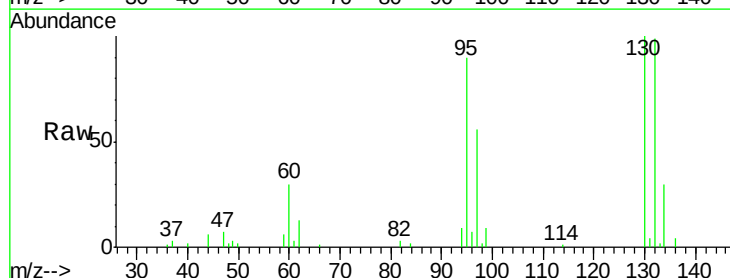
Acq: 24 Jul 2018 04:03

Tgt Ion:130 Resp: 10253

Ion Ratio Lower Upper

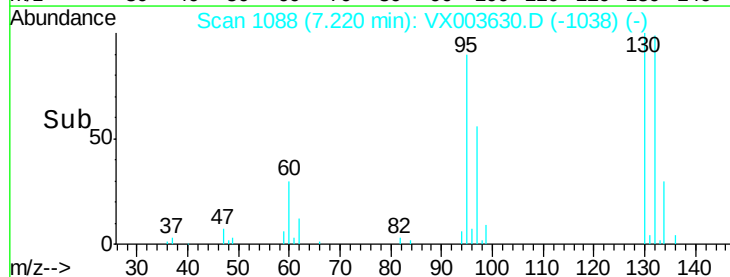
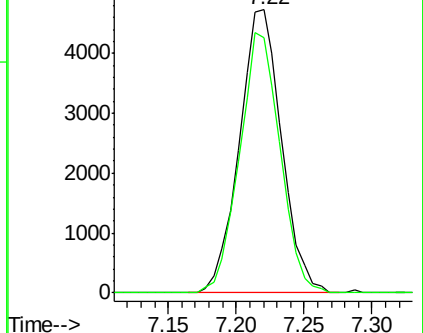
130 100

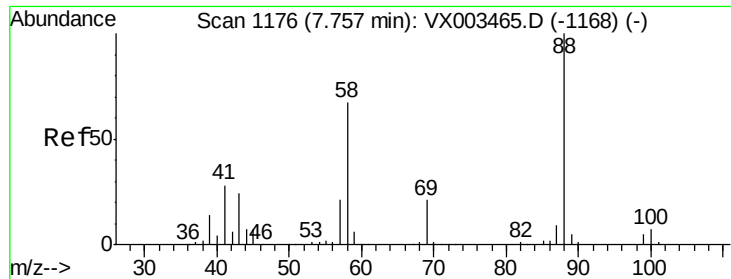
95 89.9 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

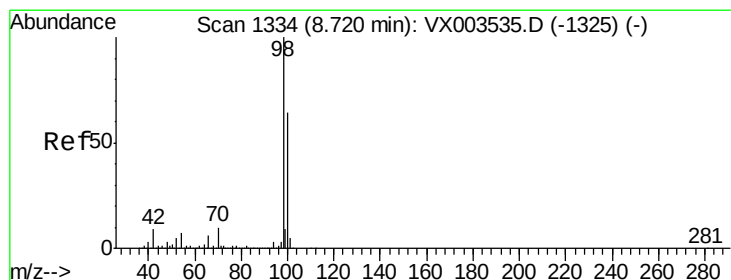
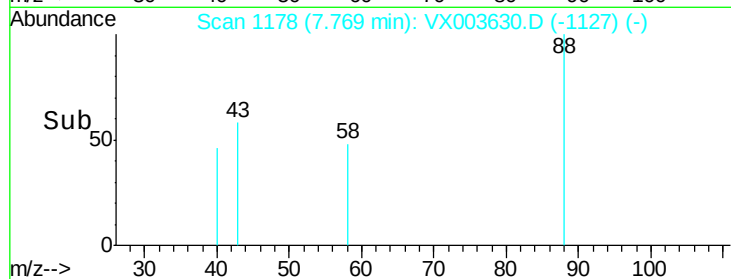
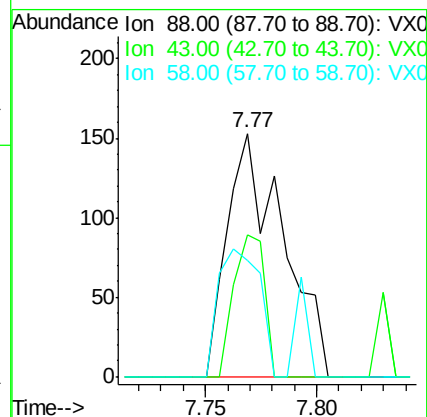
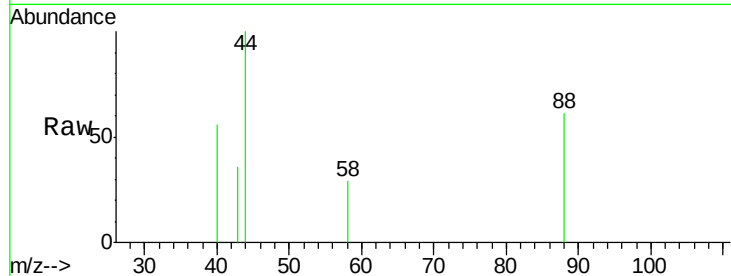




#49
1,4-Dioxane
Concen: 4.00 ug/l
RT: 7.77 min Scan# 1178
Delta R.T. 0.01 min
Lab File: VX003630.D
Acq: 24 Jul 2018 04:03

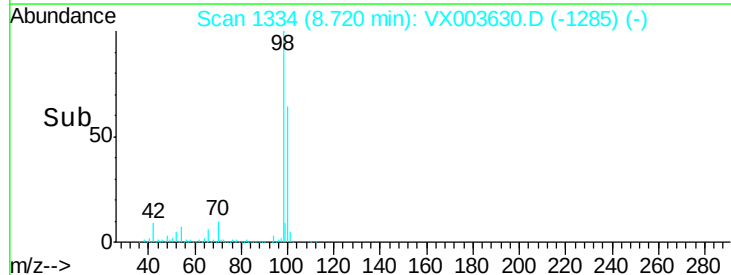
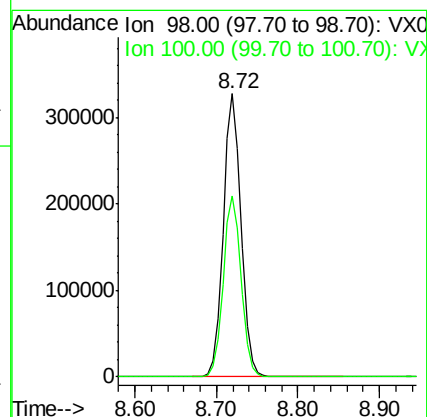
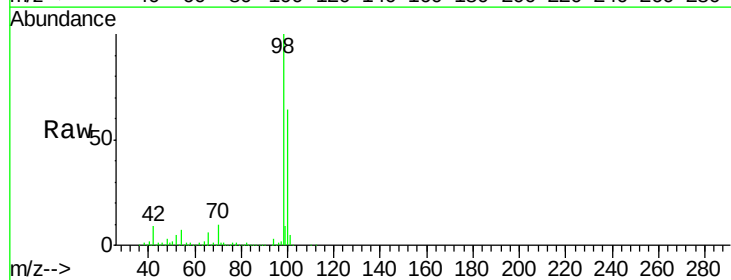
Instrument :
MSVOA_X
ClientSampled :

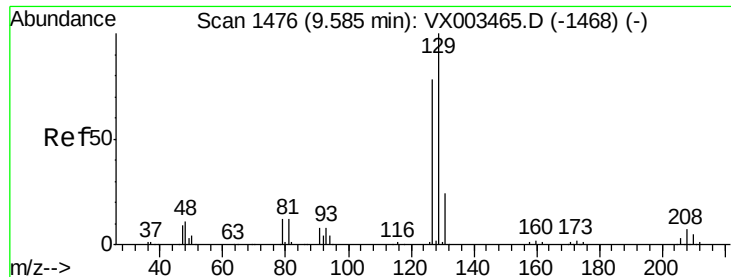
Tot Ion: 88 Resp: 266
Ion Ratio Lower Upper
88 100
43 32.0 29.8 44.6
58 39.1 57.1 85.7#



#50
Toluene-d8
Concen: 48.58 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003630.D
Acq: 24 Jul 2018 04:03

Tgt Ion: 98 Resp: 497875
Ion Ratio Lower Upper
98 100
100 64.6 50.9 76.3





#60

Dibromochloromethane

Concen: 0.84 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.24 min

Lab File: VX003630.D

Acq: 24 Jul 2018 04:03

Instrument :

MSVOA_X

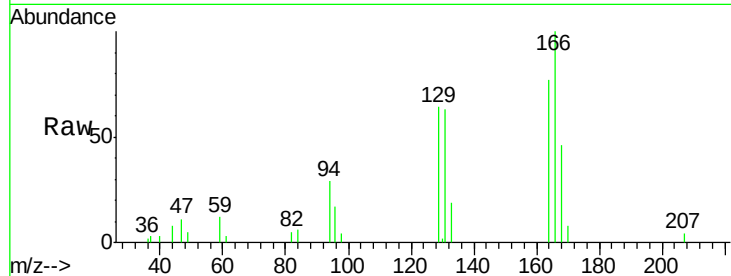
ClientSampleId :

Tot Ion:129 Resp: 2432

Ion Ratio Lower Upper

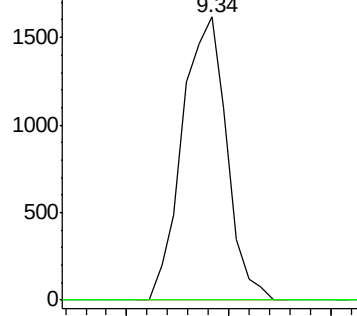
129 100

127 0.0 38.5 115.3#

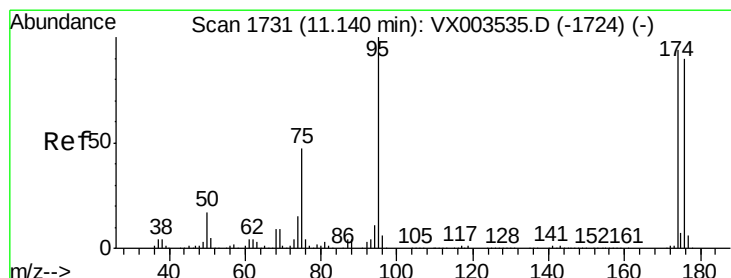
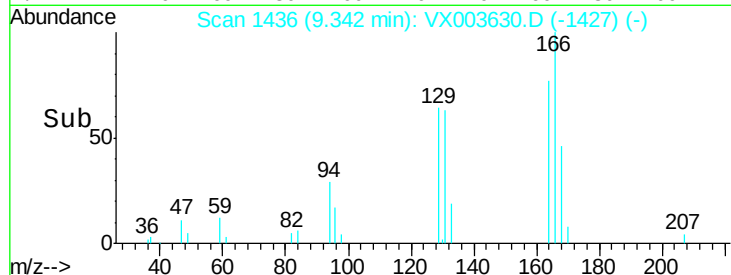


Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



Time-->



#62

4-Bromofluorobenzene

Concen: 45.22 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003630.D

Acq: 24 Jul 2018 04:03

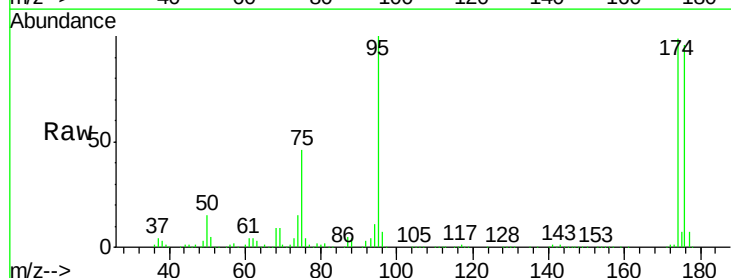
Tgt Ion: 95 Resp: 169136

Ion Ratio Lower Upper

95 100

174 102.6 0.0 187.4

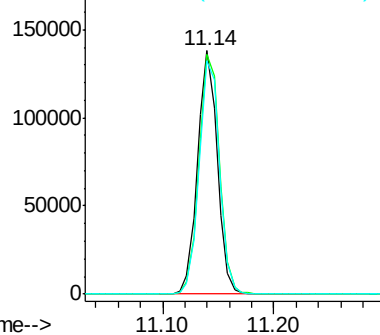
176 98.9 0.0 181.0



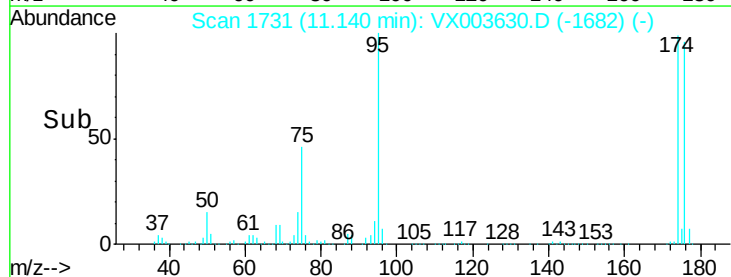
Abundance Ion 94.90 (94.60 to 95.60): VX0

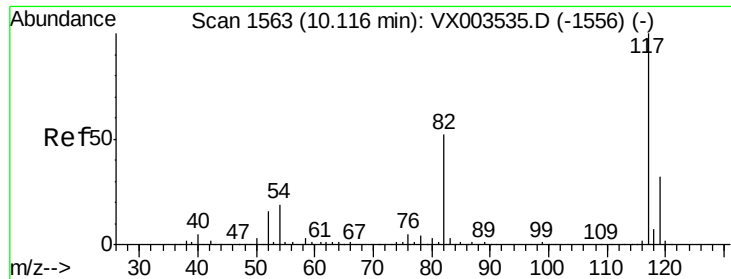
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time-->

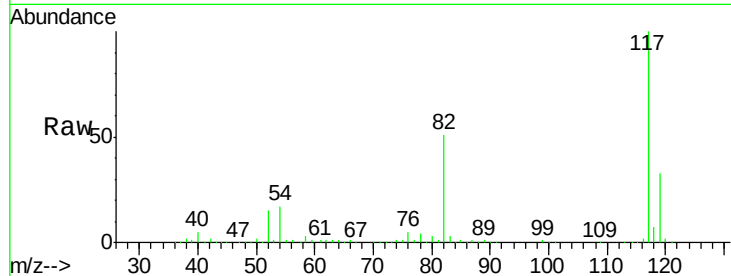




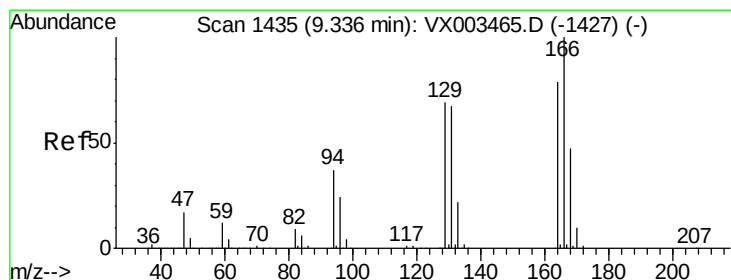
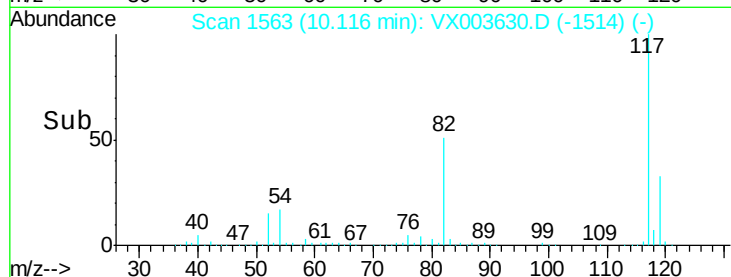
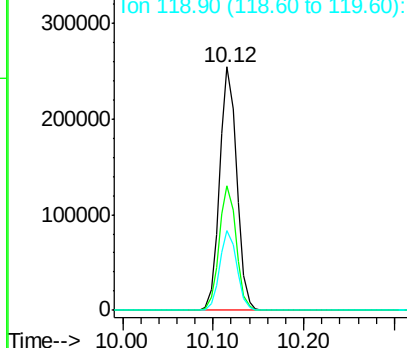
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003630.D
Acq: 24 Jul 2018 04:03

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 337101
Ion Ratio Lower Upper
117 100
82 51.2 45.0 67.4
119 32.6 25.8 38.6

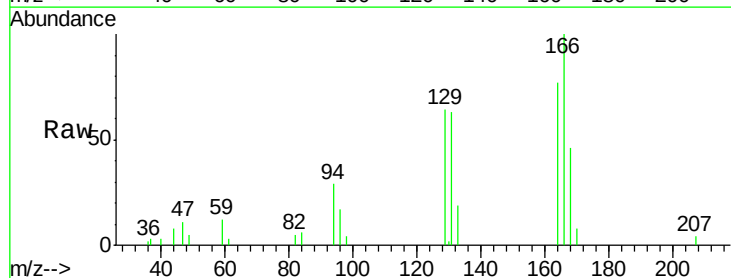


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

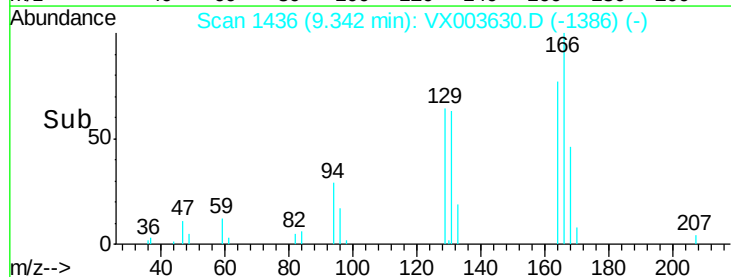
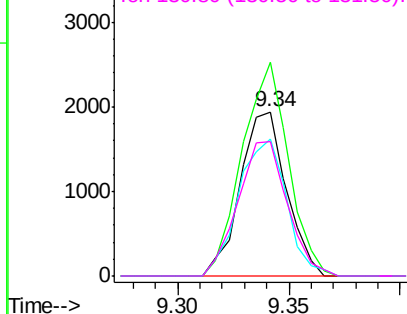


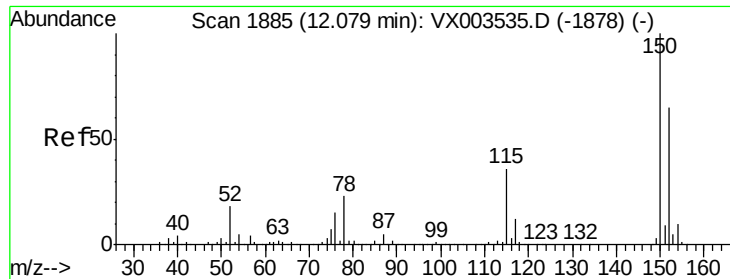
#64
Tetrachloroethene
Concen: 0.68 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. 0.01 min
Lab File: VX003630.D
Acq: 24 Jul 2018 04:03

Tgt Ion:164 Resp: 2801
Ion Ratio Lower Upper
164 100
166 130.1 102.9 154.3
129 83.3 68.6 102.8
131 81.6 66.8 100.2



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): 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: VX003630.D

Acq: 24 Jul 2018 04:03

Instrument :

MSVOA_X

ClientSampled :

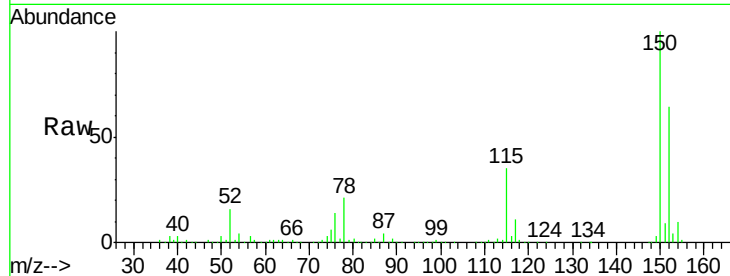
Tot Ion:152 Resp: 188639

Ion Ratio Lower Upper

152 100

115 52.6 40.1 120.2

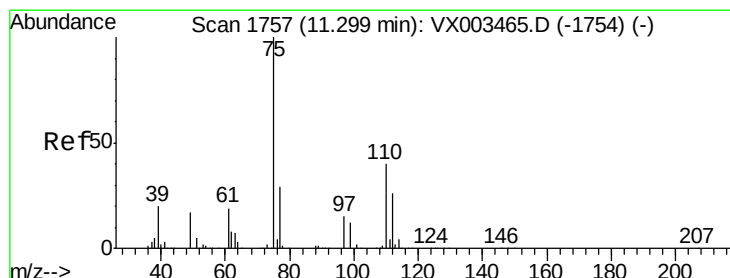
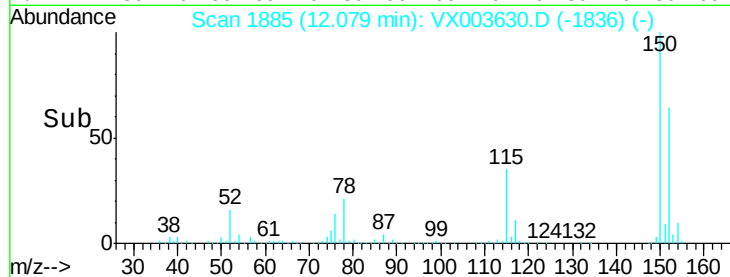
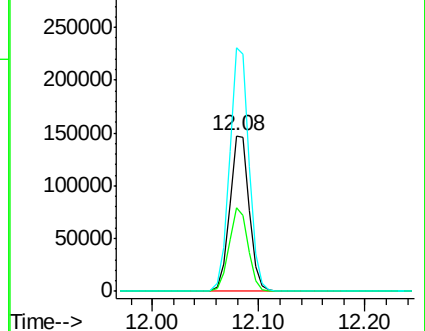
150 155.8 0.0 347.2



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: 22.95 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003630.D

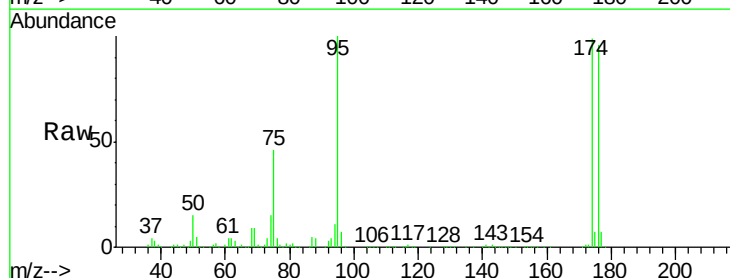
Acq: 24 Jul 2018 04:03

Tgt Ion: 75 Resp: 77768

Ion Ratio Lower Upper

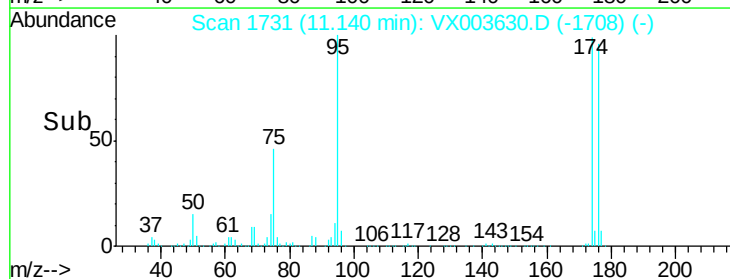
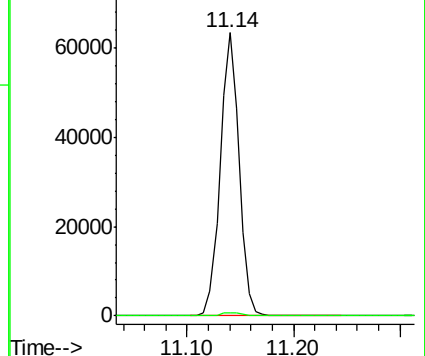
75 100

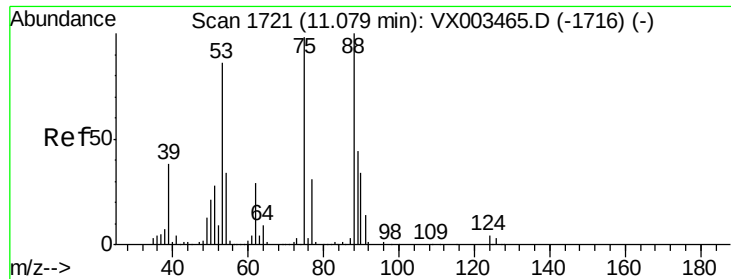
77 1.3 22.8 68.3#



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: 64.46 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003630.D

Acq: 24 Jul 2018 04:03

Instrument :

MSVOA_X

ClientSampleId :

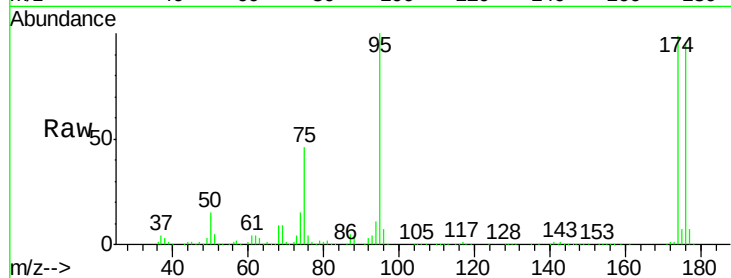
Tot Ion: 75 Resp: 77768

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#



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

