

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122218\
 Data File : VX006771.D
 Acq On : 22 Dec 2018 14:50
 Operator : JC/MD
 Sample : J6533-07 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 COMP-1

Quant Time: Dec 24 04:25:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	642814	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	989238	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	898011	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	429031	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	335849	48.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.96%	
35) Dibromofluoromethane	5.50	113	298316	47.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.38%	
50) Toluene-d8	8.71	98	1158632	49.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.26%	
62) 4-Bromofluorobenzene	11.13	95	407090	47.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.26%	

Target Compounds

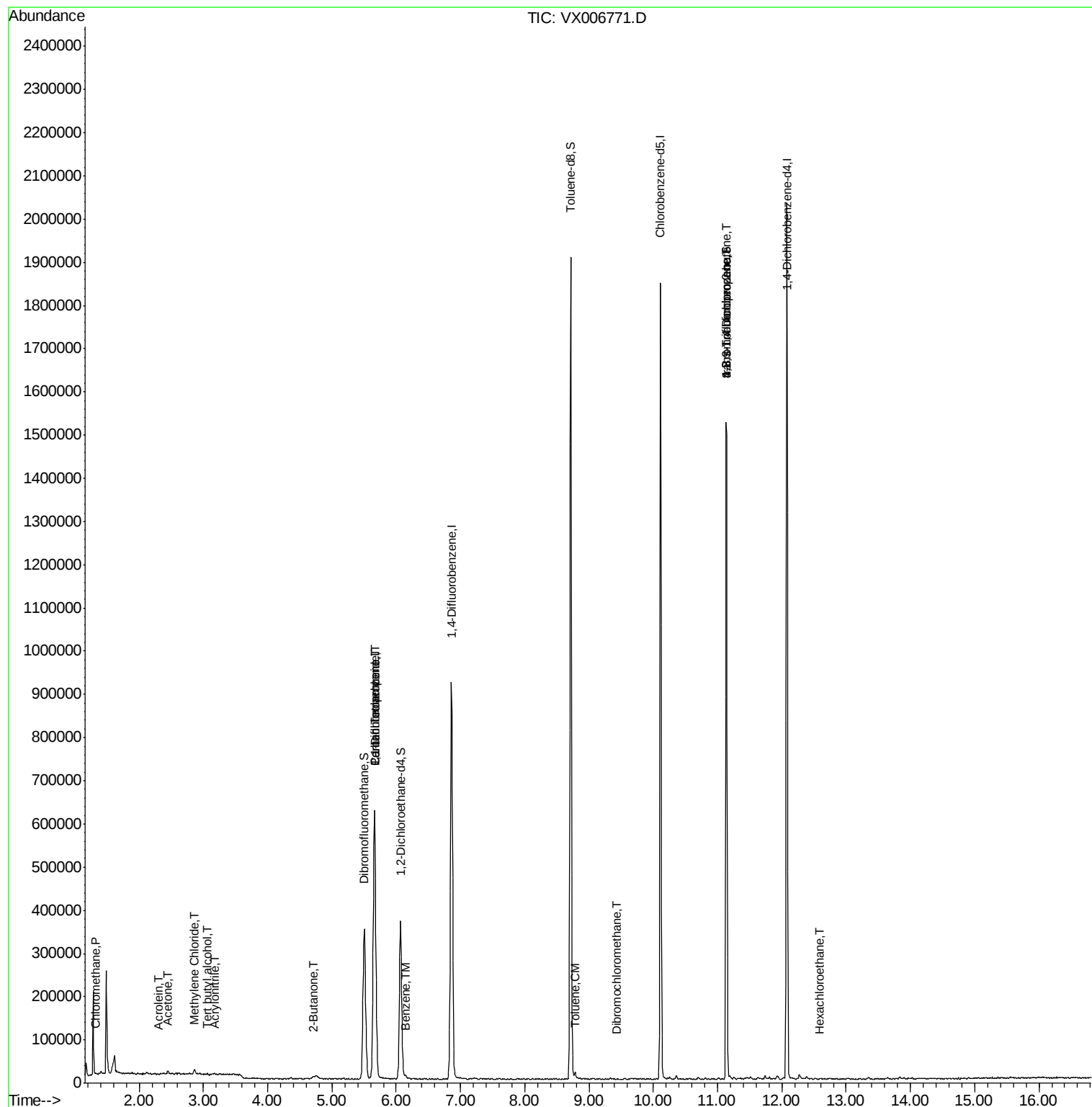
					Qvalue	
3) Chloromethane	1.33	50	1309	0.207	ug/l #	69
5) Bromomethane	1.65	94	1533	Below Cal	#	68
11) Tert butyl alcohol	3.06	59	2356	1.524	ug/l #	21
13) Acrolein	2.29	56	292	0.280	ug/l	96
15) Acrylonitrile	3.17	53	789	0.230	ug/l #	39
16) Acetone	2.45	43	8462	2.659	ug/l	90
20) Methylene Chloride	2.87	84	5884	0.894	ug/l #	76
25) 2-Butanone	4.70	43	8755	1.955	ug/l	90
28) Bromochloromethane	5.01	49	211	Below Cal	#	89
36) 1,1-Dichloropropene	5.67	75	40246	4.912	ug/l #	48
38) Carbon Tetrachloride	5.66	117	58129	7.300	ug/l #	15
40) Benzene	6.15	78	9099	0.365	ug/l #	83
49) 1,4-Dioxane	7.75	88	214	Below Cal	#	1
52) Toluene	8.79	92	4451	0.277	ug/l	89
60) Dibromochloromethane	9.42	129	107	2.339	ug/l	63
76) 1,2,3-Trichloropropane	11.13	75	189018	23.707	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	189018	70.272	ug/l #	10
90) Hexachloroethane	12.58	117	38	3.302	ug/l	61

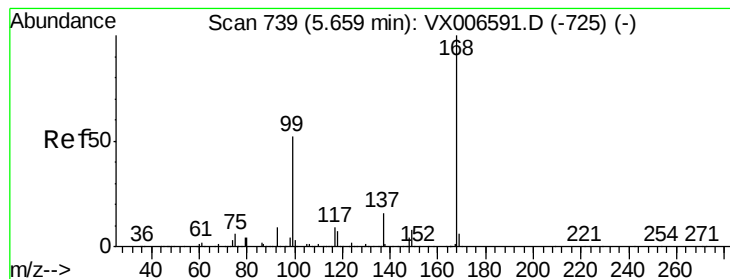
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006771.D

Acq: 22 Dec 2018 14:50

Instrument :

MSVOA_X

ClientSampleId :

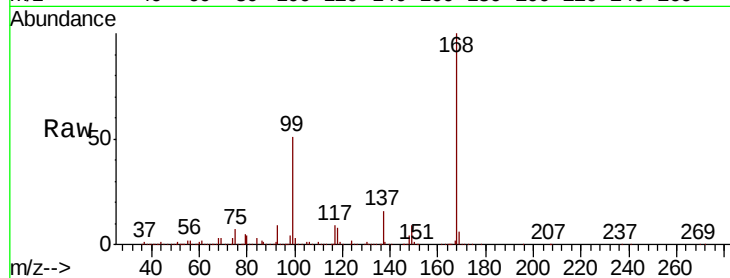
COMP-1

Tot Ion:168 Resp: 642814

Ion Ratio Lower Upper

168 100

99 50.6 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

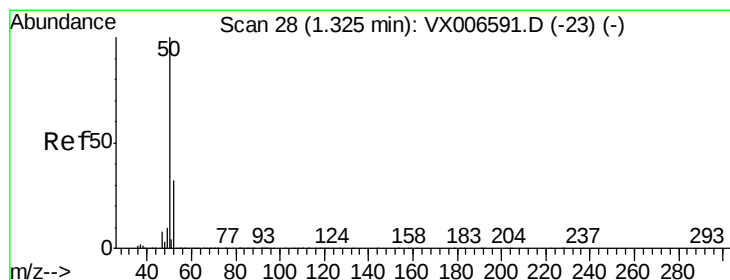
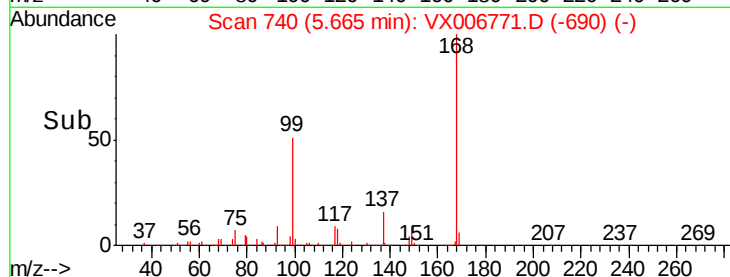
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.207 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX006771.D

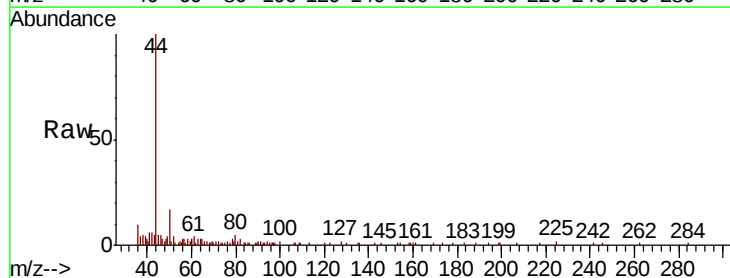
Acq: 22 Dec 2018 14:50

Tgt Ion: 50 Resp: 1309

Ion Ratio Lower Upper

50 100

52 14.3 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

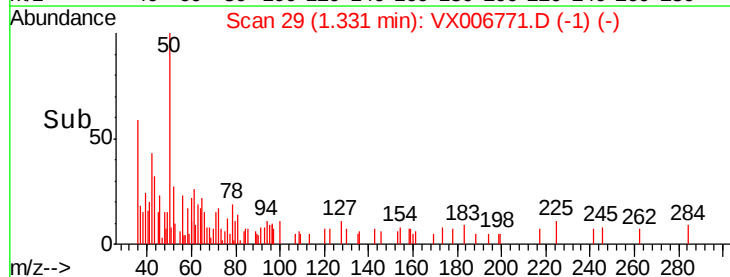
1.33

1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006771.D

Acq: 22 Dec 2018 14:50

Instrument :

MSVOA_X

ClientSampleId :

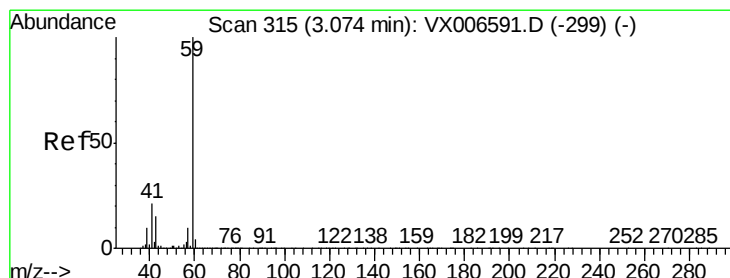
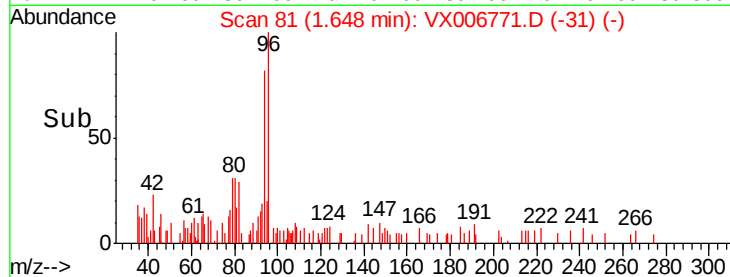
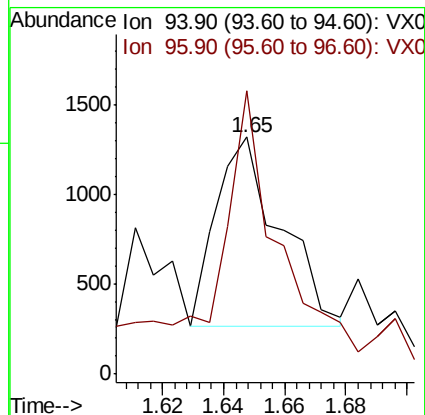
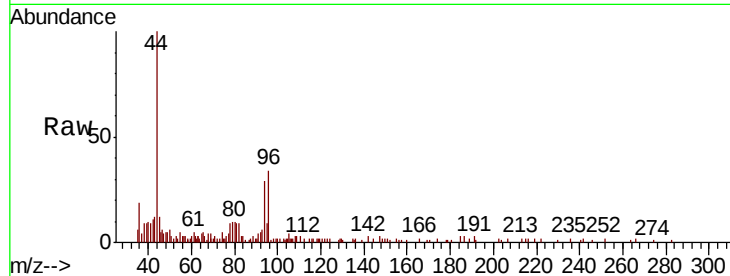
COMP-1

Tot Ion: 94 Resp: 1533

Ion Ratio Lower Upper

94 100

96 122.4 73.4 110.2#



#11

Tert butyl alcohol

Concen: 1.524 ug/l

RT: 3.06 min Scan# 313

Delta R.T. -0.01 min

Lab File: VX006771.D

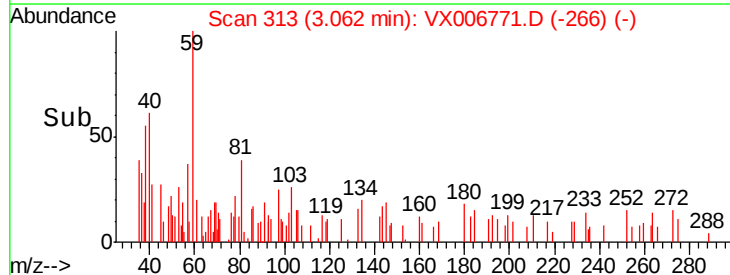
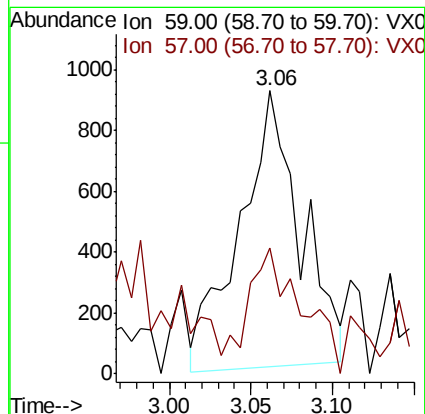
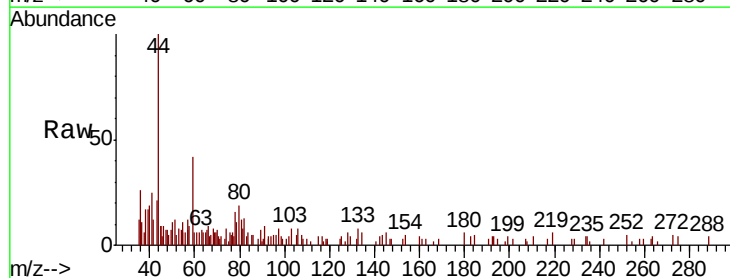
Acq: 22 Dec 2018 14:50

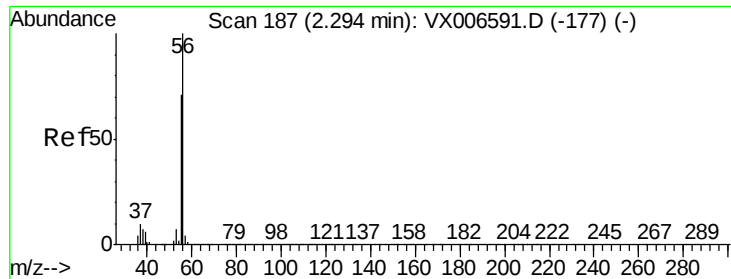
Tgt Ion: 59 Resp: 2356

Ion Ratio Lower Upper

59 100

57 40.4 8.5 12.7#





#13

Acrolein

Concen: 0.280 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX006771.D

Acq: 22 Dec 2018 14:50

Instrument :

MSVOA_X

ClientSampled :

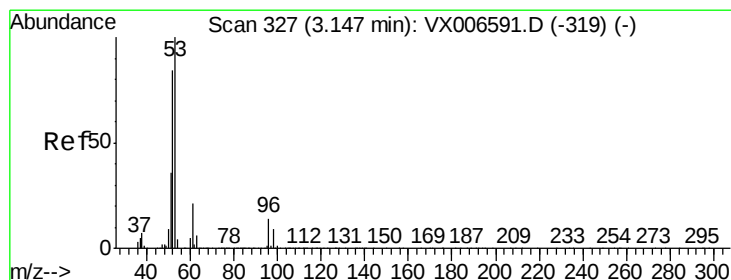
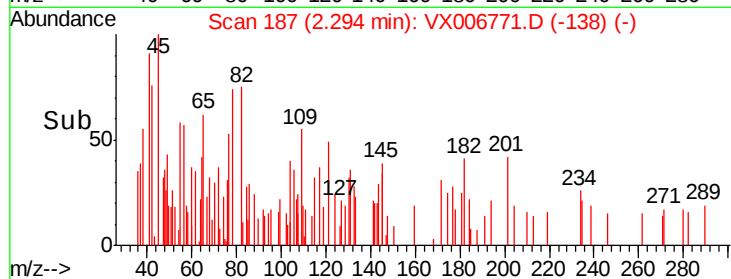
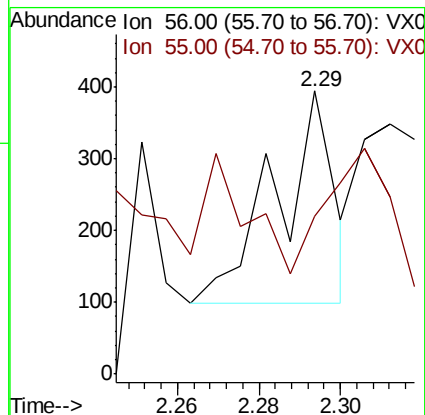
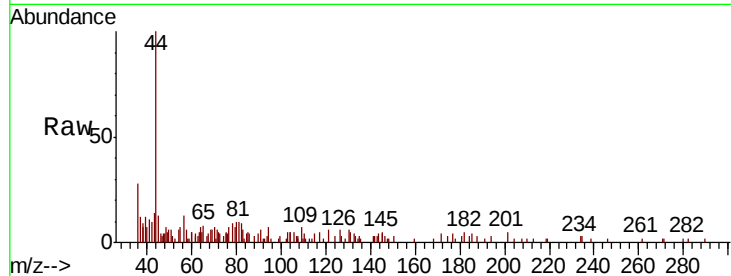
COMP-1

Tot Ion: 56 Resp: 292

Ion Ratio Lower Upper

56 100

55 69.9 58.2 87.4



#15

Acrylonitrile

Concen: 0.230 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.02 min

Lab File: VX006771.D

Acq: 22 Dec 2018 14:50

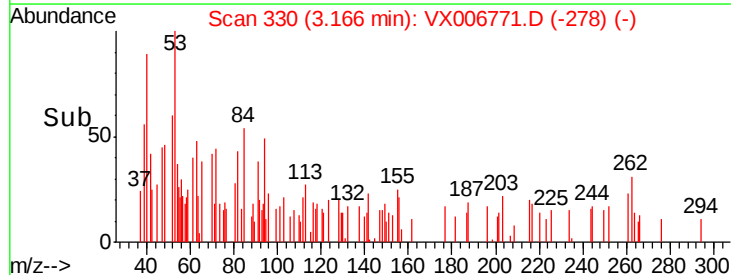
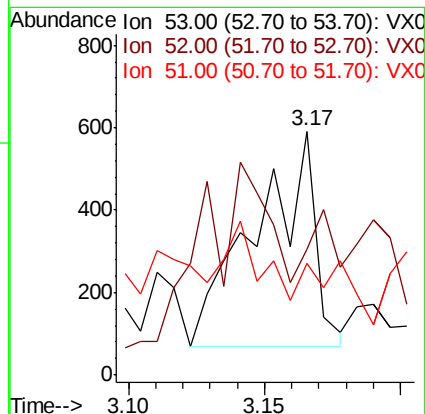
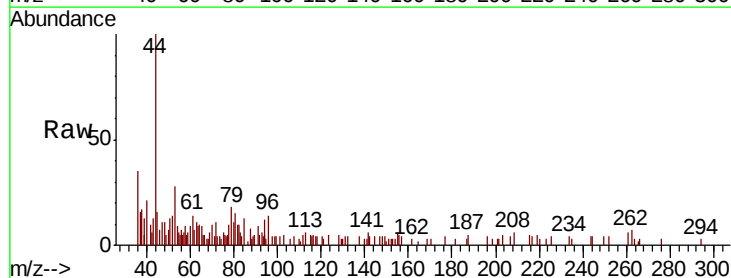
Tgt Ion: 53 Resp: 789

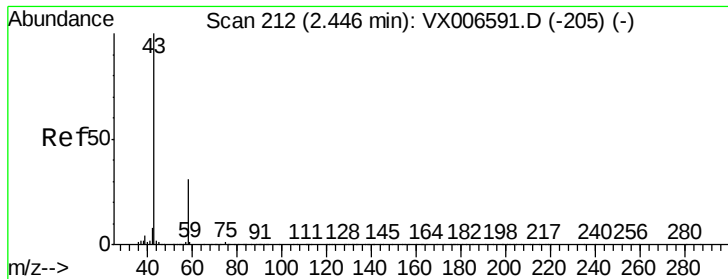
Ion Ratio Lower Upper

53 100

52 28.1 66.0 99.0#

51 0.0 28.6 42.8#





#16

Acetone

Concen: 2.659 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006771.D

Acq: 22 Dec 2018 14:50

Instrument :

MSVOA_X

ClientSampleId :

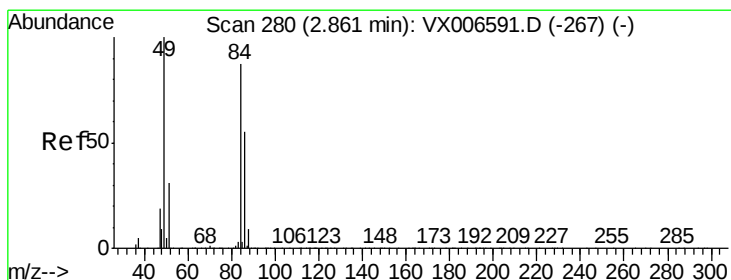
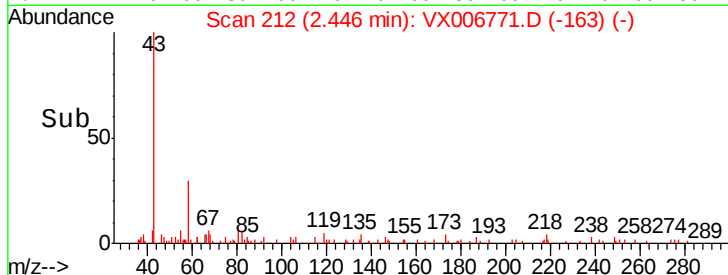
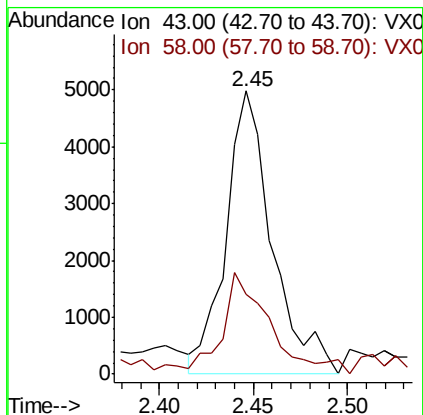
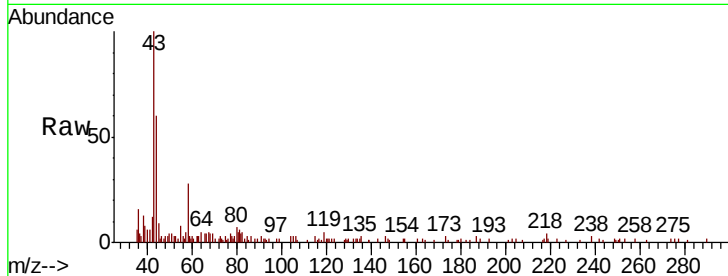
COMP-1

Tot Ion: 43 Resp: 8462

Ion Ratio Lower Upper

43 100

58 25.8 25.0 37.6



#20

Methylene Chloride

Concen: 0.894 ug/l

RT: 2.87 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX006771.D

Acq: 22 Dec 2018 14:50

Tgt Ion: 84 Resp: 5884

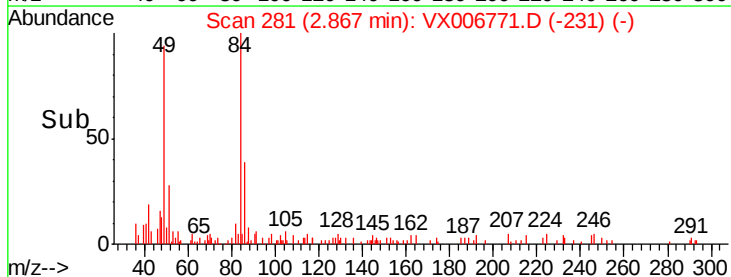
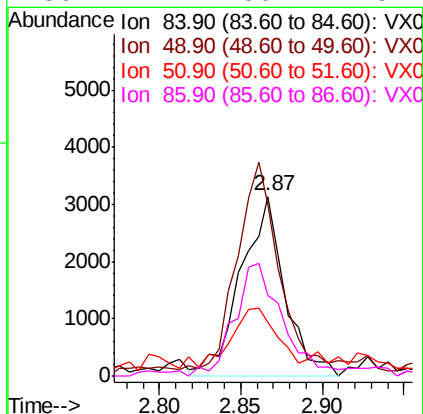
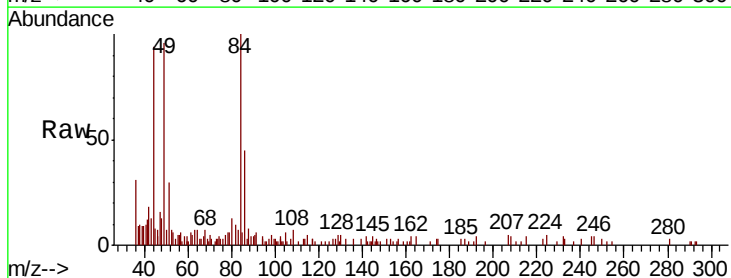
Ion Ratio Lower Upper

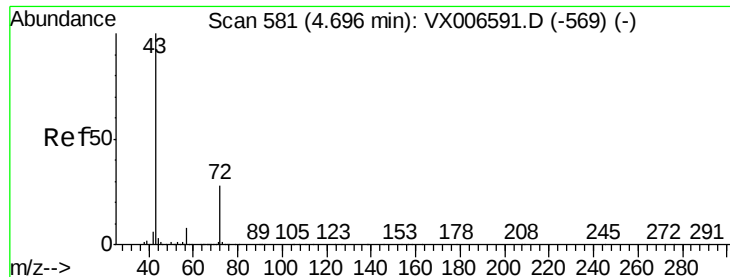
84 100

49 90.1 91.8 137.6#

51 19.1 28.5 42.7#

86 44.7 50.2 75.2#





#25

2-Butanone

Concen: 1.955 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX006771.D

Acq: 22 Dec 2018 14:50

Instrument :

MSVOA_X

ClientSampleId :

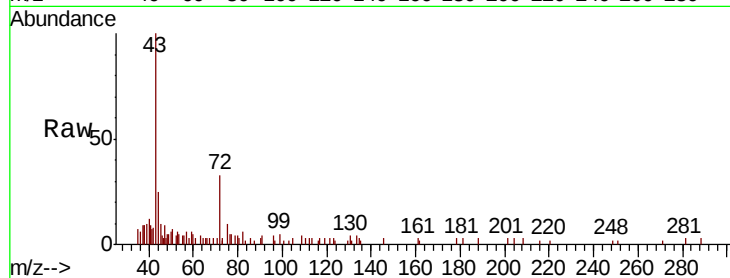
COMP-1

Tot Ion: 43 Resp: 8755

Ion Ratio Lower Upper

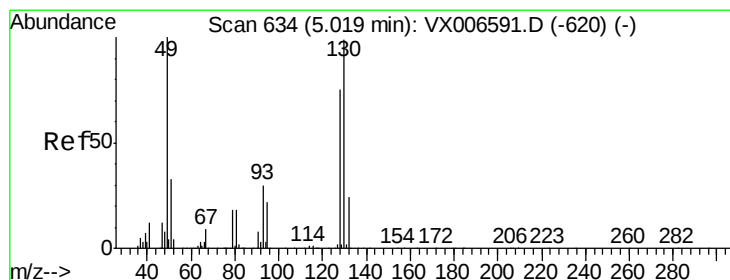
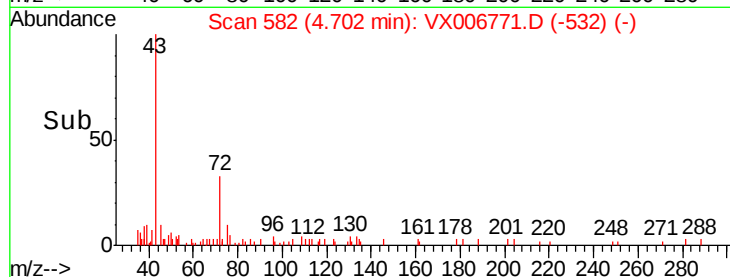
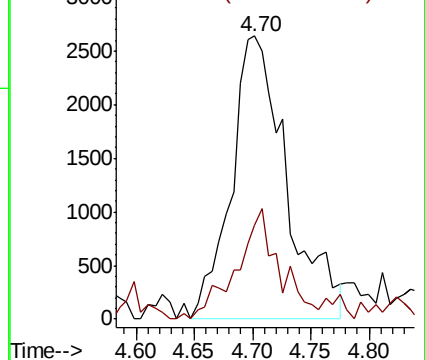
43 100

72 33.2 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX006771.D

Acq: 22 Dec 2018 14:50

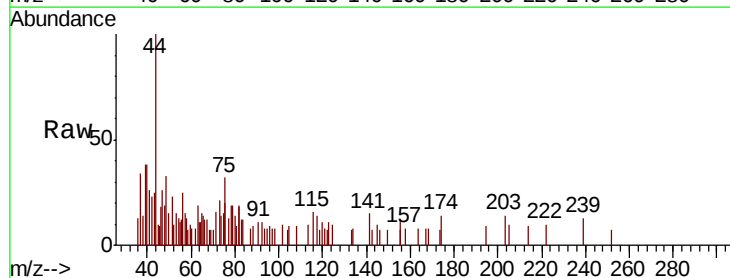
Tgt Ion: 49 Resp: 211

Ion Ratio Lower Upper

49 100

129 23.2 0.0 5.4#

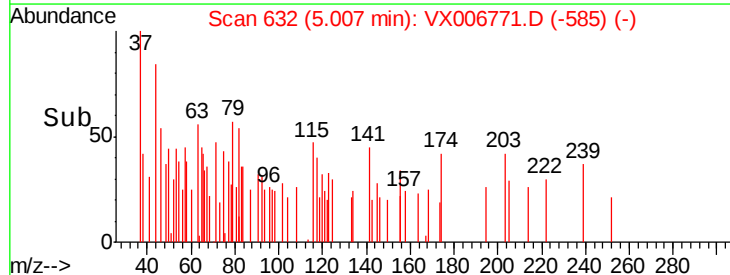
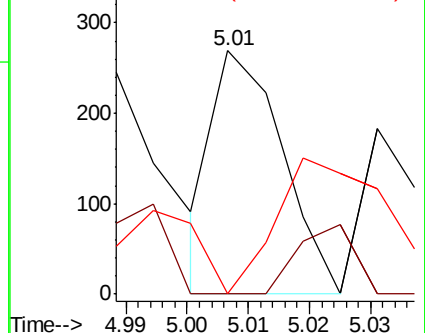
130 88.2 77.7 116.5

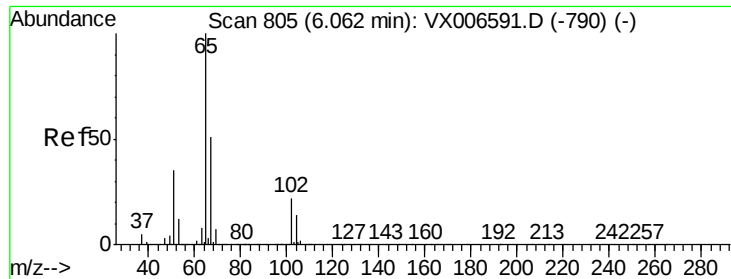


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#33

1,2-Dichloroethane-d4

Concen: 48.477 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006771.D

Acq: 22 Dec 2018 14:50

Instrument :

MSVOA_X

ClientSampled :

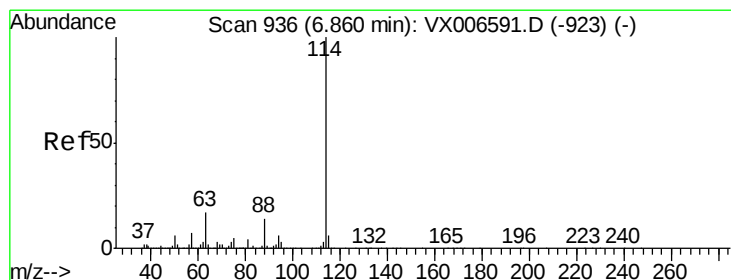
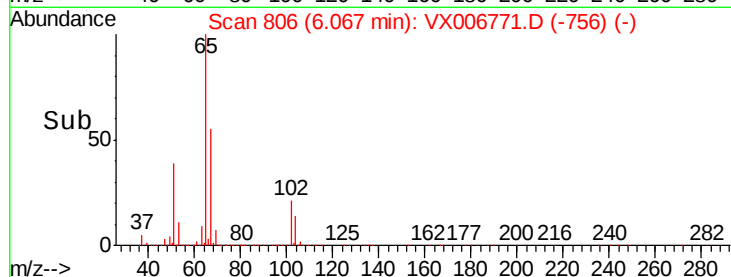
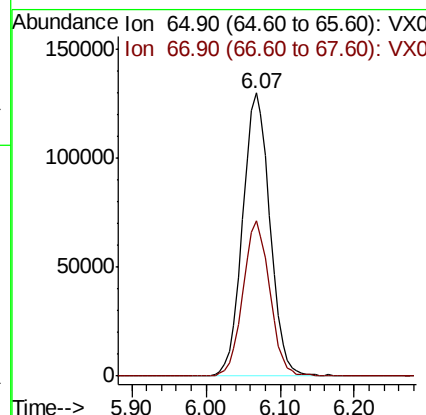
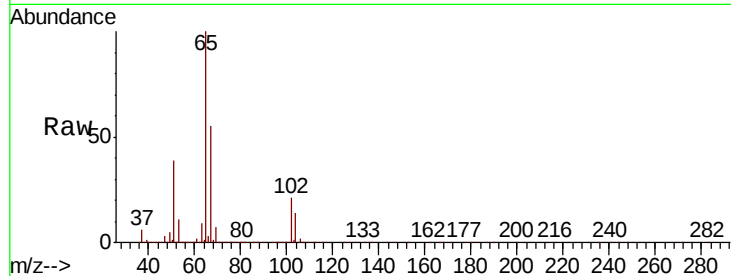
COMP-1

Tot Ion: 65 Resp: 335849

Ion Ratio Lower Upper

65 100

67 53.8 0.0 105.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006771.D

Acq: 22 Dec 2018 14:50

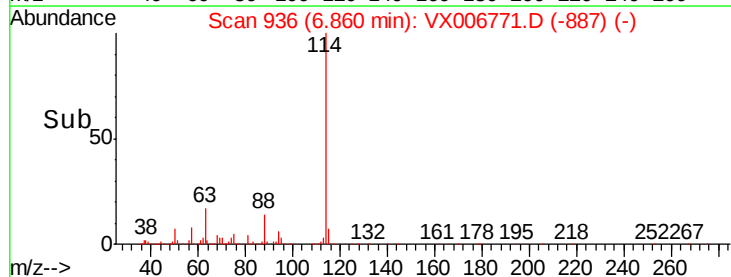
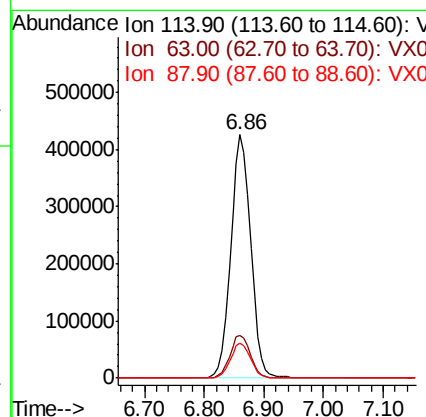
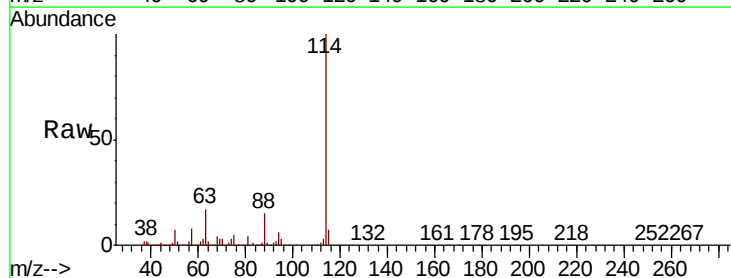
Tgt Ion: 114 Resp: 989238

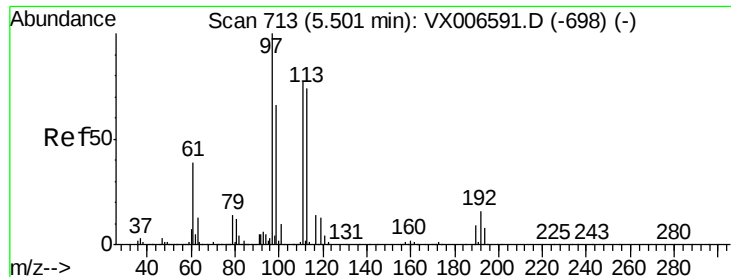
Ion Ratio Lower Upper

114 100

63 17.5 0.0 34.8

88 14.5 0.0 28.8





#35

Dibromofluoromethane

Concen: 47.687 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX006771.D

Acq: 22 Dec 2018 14:50

Instrument :

MSVOA_X

ClientSampled :

COMP-1

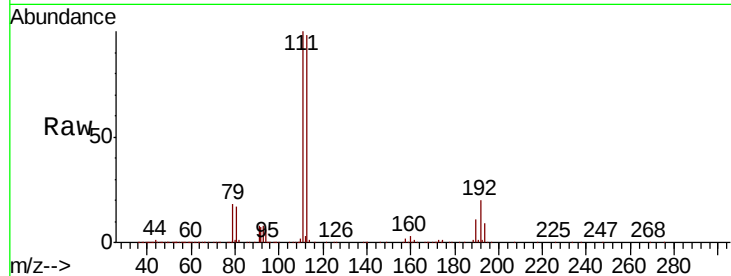
Tot Ion:113 Resp: 298316

Ion Ratio Lower Upper

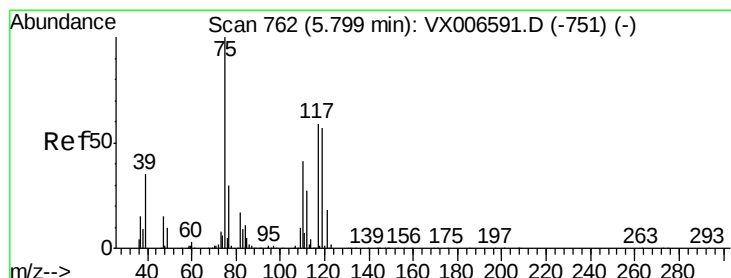
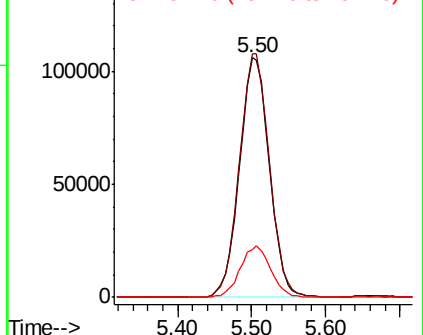
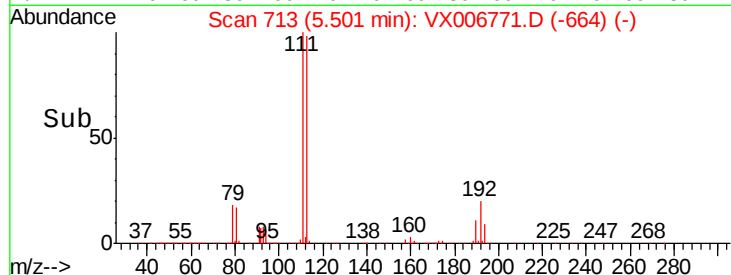
113 100

111 102.1 81.6 122.4

192 21.8 16.7 25.1



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.912 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006771.D

Acq: 22 Dec 2018 14:50

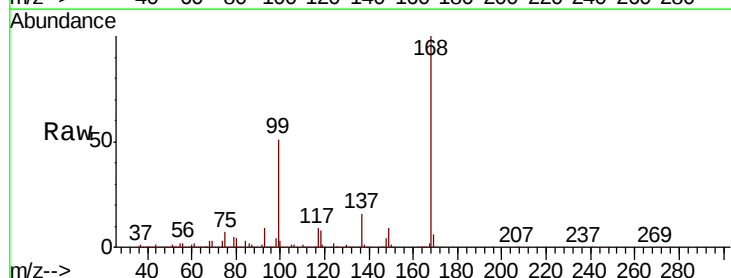
Tgt Ion: 75 Resp: 40246

Ion Ratio Lower Upper

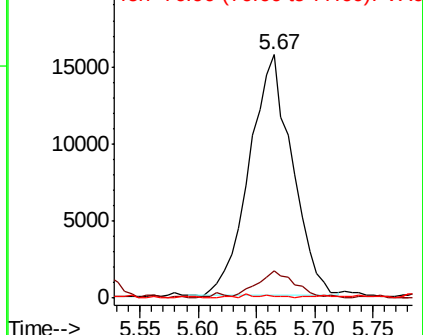
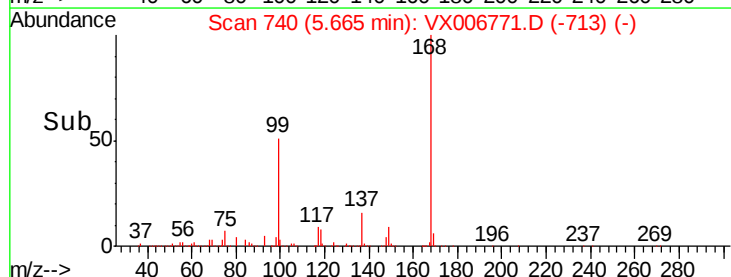
75 100

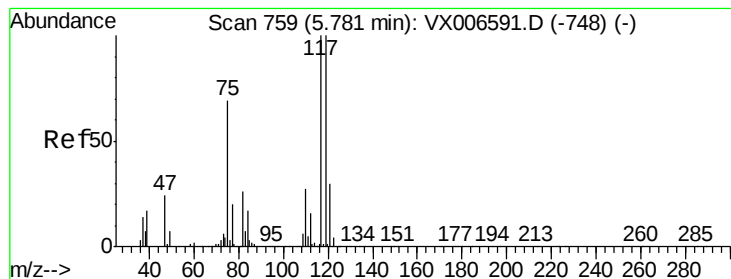
110 10.2 20.2 60.5#

77 0.5 24.8 37.2#



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: 7.300 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006771.D

Acq: 22 Dec 2018 14:50

Instrument :

MSVOA_X

ClientSampleId :

COMP-1

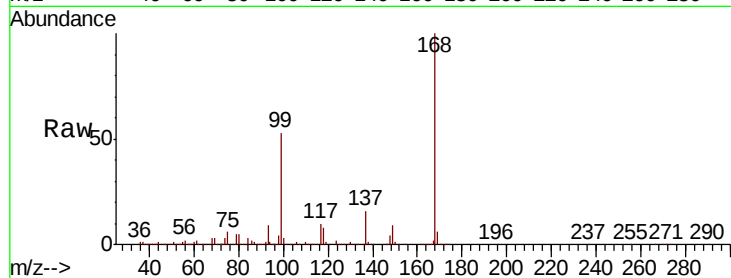
Tot Ion:117 Resp: 58129

Ion Ratio Lower Upper

117 100

119 5.4 79.4 119.2#

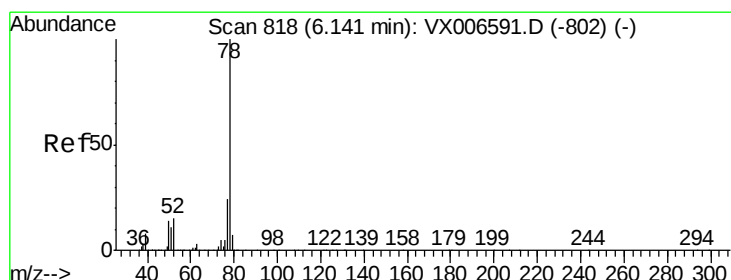
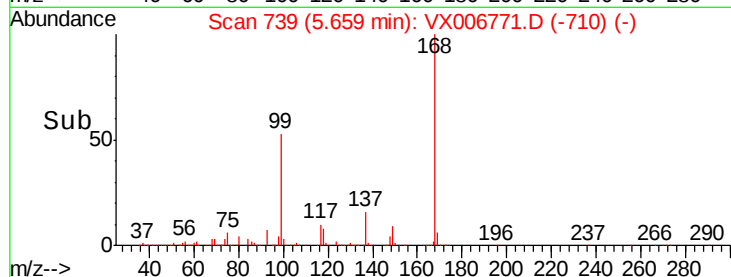
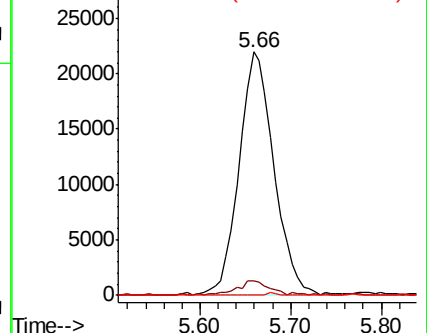
121 0.0 24.0 36.0#



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



#40

Benzene

Concen: 0.365 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX006771.D

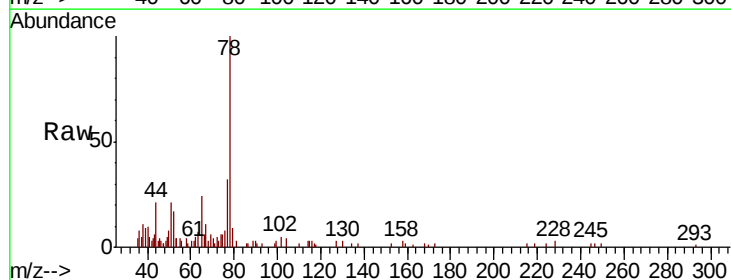
Acq: 22 Dec 2018 14:50

Tgt Ion: 78 Resp: 9099

Ion Ratio Lower Upper

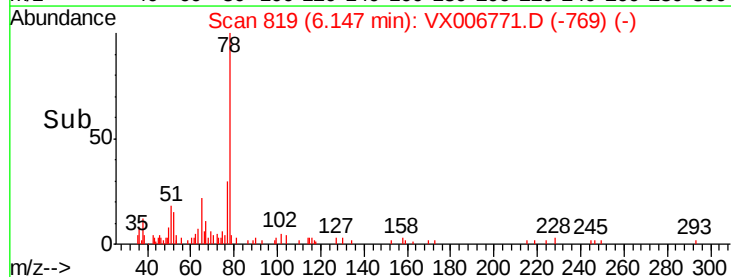
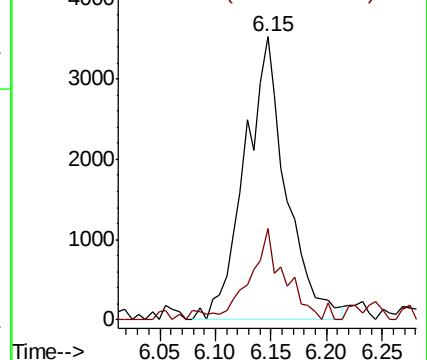
78 100

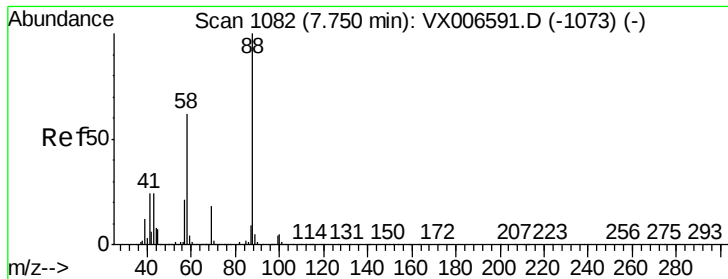
77 32.4 19.2 28.8#



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

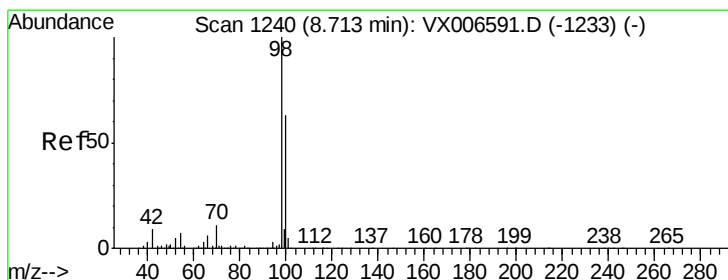
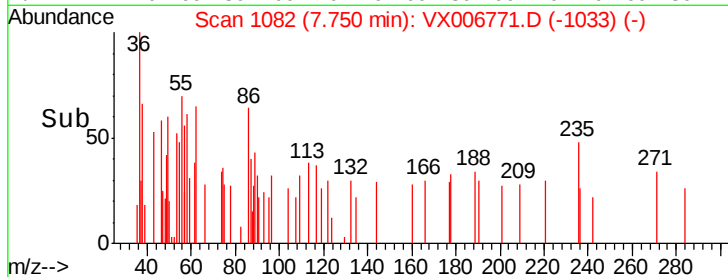
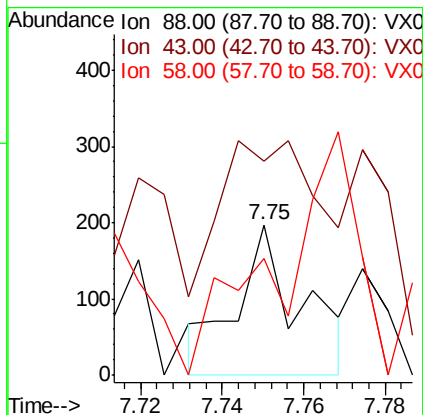
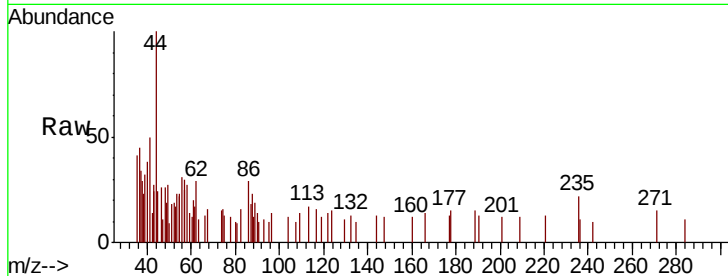




#49
1,4-Dioxane
Concen: Below Cal
RT: 7.75 min Scan# 1082
Delta R.T. 0.00 min
Lab File: VX006771.D
Acq: 22 Dec 2018 14:50

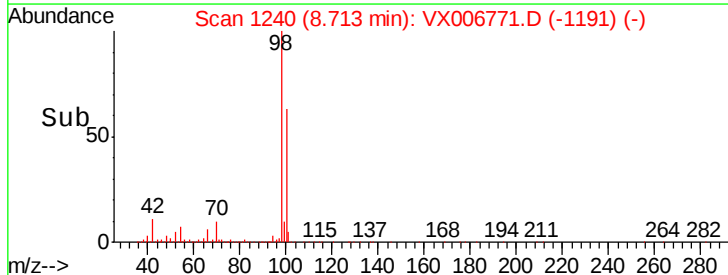
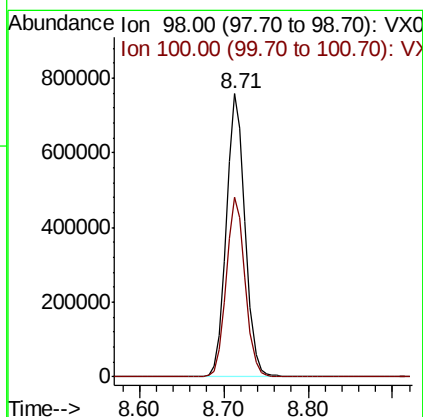
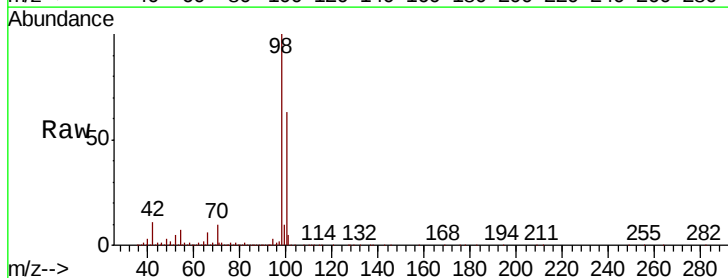
Instrument :
MSVOA_X
ClientSampleId :
COMP-1

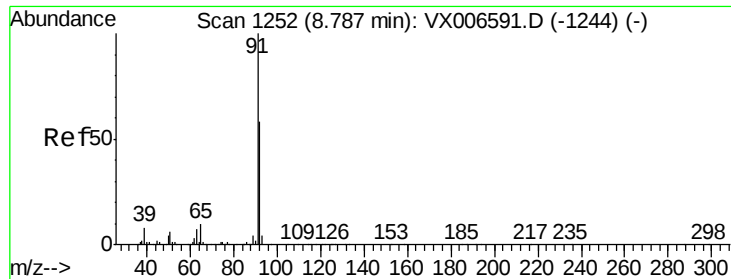
Tot Ion: 88 Resp: 214
Ion Ratio Lower Upper
88 100
43 156.1 22.2 33.4#
58 0.0 51.0 76.4#



#50
Toluene-d8
Concen: 49.127 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX006771.D
Acq: 22 Dec 2018 14:50

Tgt Ion: 98 Resp: 1158632
Ion Ratio Lower Upper
98 100
100 63.8 52.0 78.0





#52

Toluene

Concen: 0.277 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX006771.D

Acq: 22 Dec 2018 14:50

Instrument :

MSVOA_X

ClientSampleId :

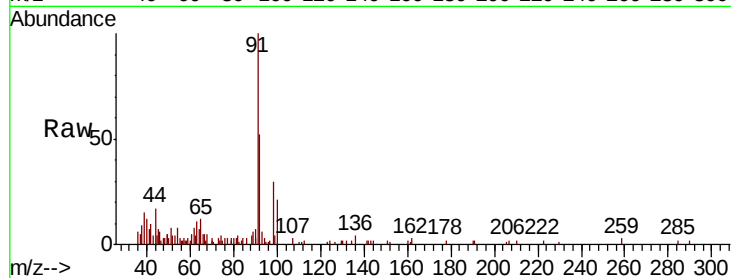
COMP-1

Tot Ion: 92 Resp: 4451

Ion Ratio Lower Upper

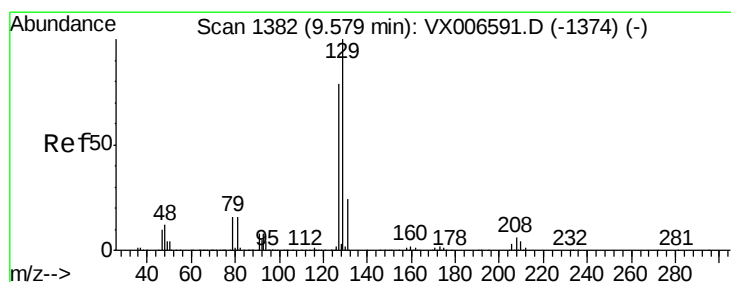
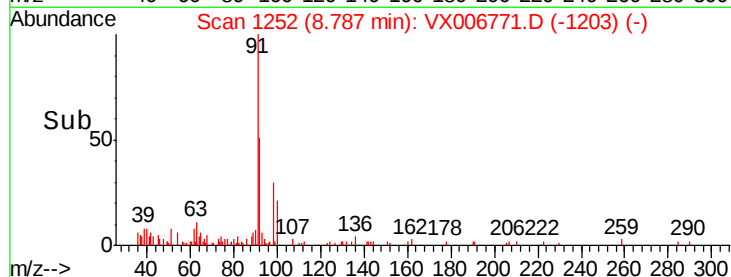
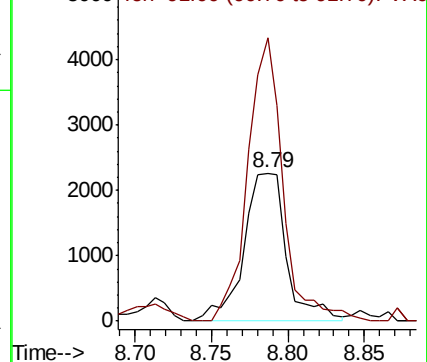
92 100

91 156.3 137.6 206.4



Abundance Ion 92.00 (91.70 to 92.70): VX006771.D (-1203) (-)

Ion 91.00 (90.70 to 91.70): VX006771.D (-1203) (-)



#60

Dibromochloromethane

Concen: 2.339 ug/l

RT: 9.42 min Scan# 1356

Delta R.T. -0.16 min

Lab File: VX006771.D

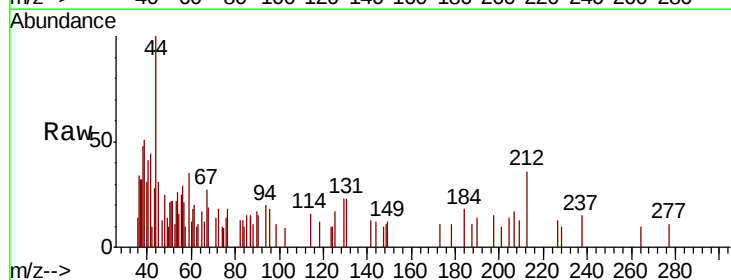
Acq: 22 Dec 2018 14:50

Tgt Ion: 129 Resp: 107

Ion Ratio Lower Upper

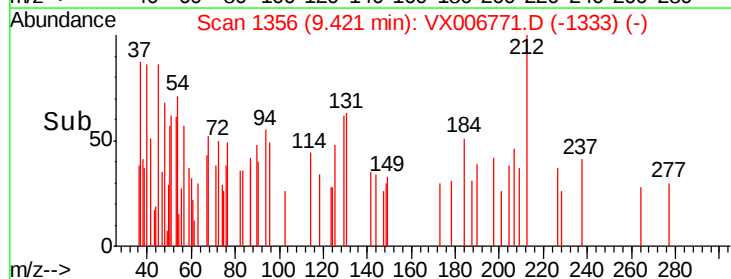
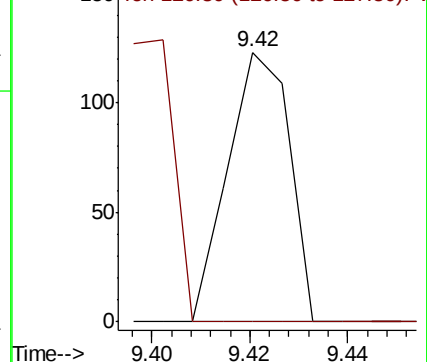
129 100

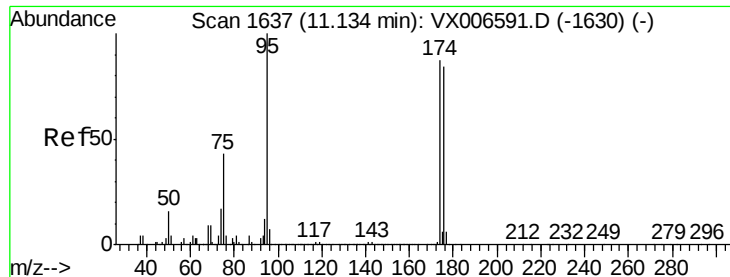
127 111.2 39.3 117.8



Abundance Ion 128.80 (128.50 to 129.50): VX006771.D (-1333) (-)

Ion 126.80 (126.50 to 127.50): VX006771.D (-1333) (-)

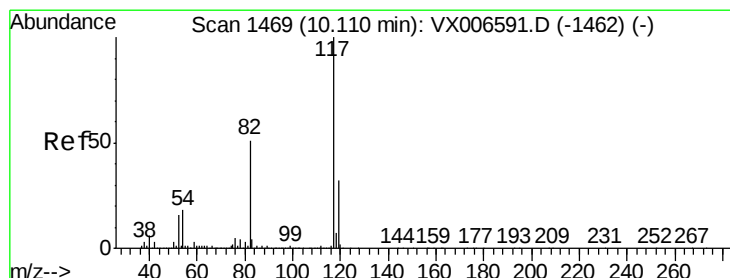
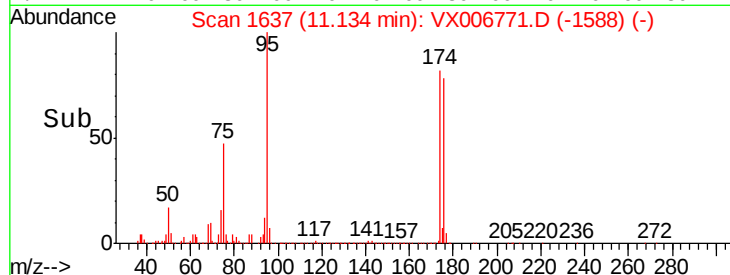
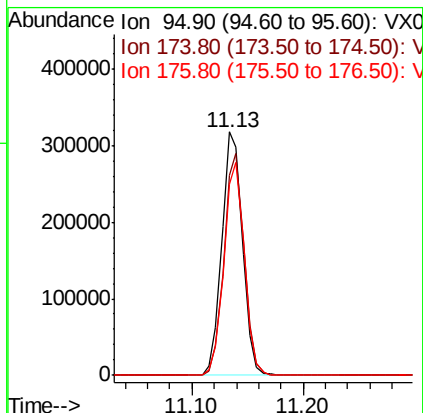
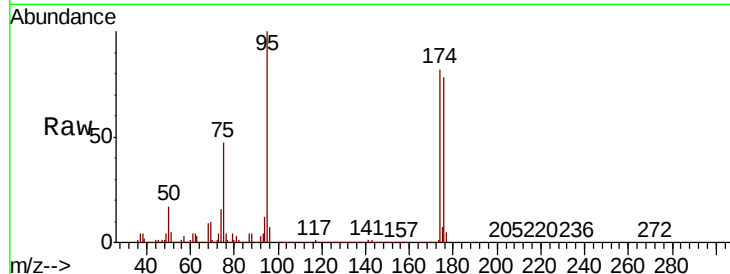




#62
4-Bromofluorobenzene
Concen: 47.130 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX006771.D
Acq: 22 Dec 2018 14:50

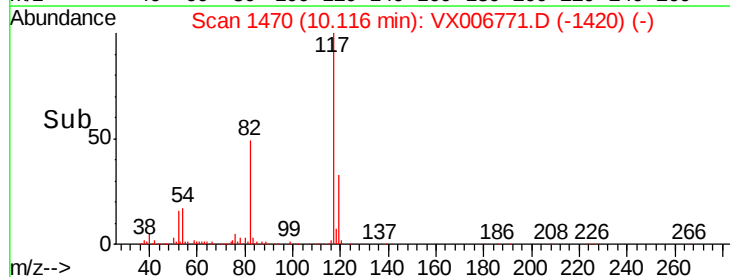
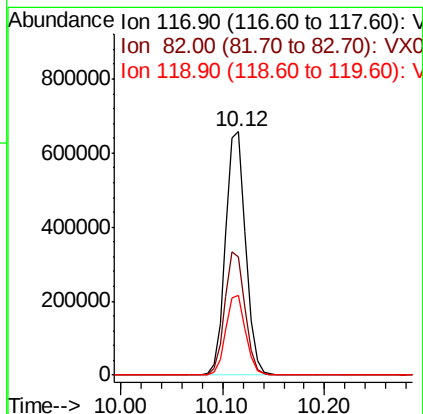
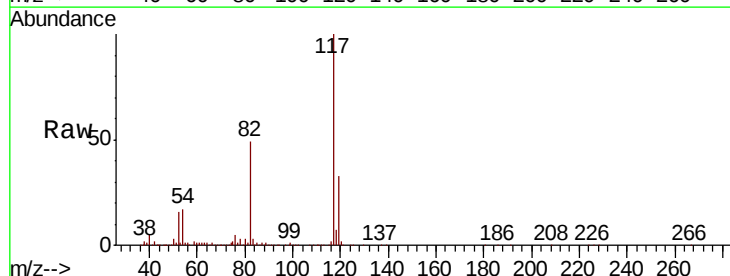
Instrument :
MSVOA_X
ClientSampleId :
COMP-1

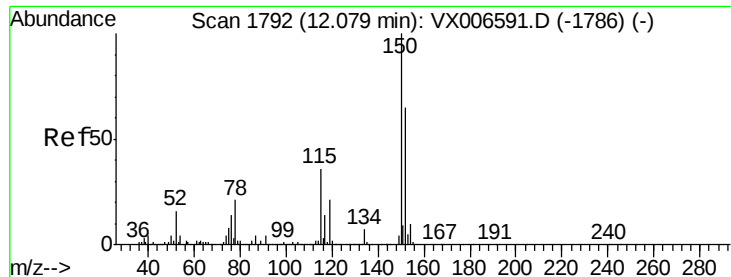
Tot Ion	Ratio	Lower	Upper
95	100		
174	89.2	0.0	182.2
176	86.6	0.0	178.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006771.D
Acq: 22 Dec 2018 14:50

Tgt Ion	Ratio	Lower	Upper
117	100		
82	48.8	41.0	61.6
119	32.7	25.4	38.0



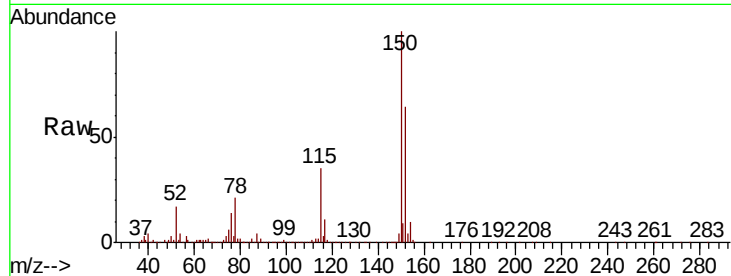


#72

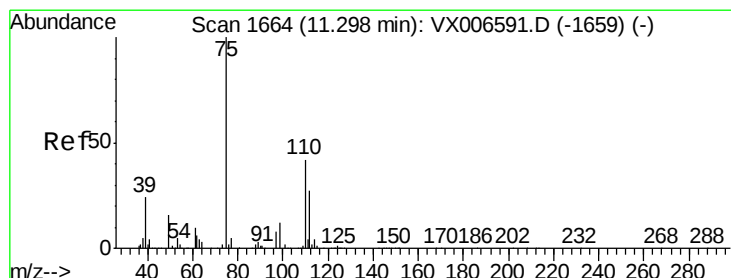
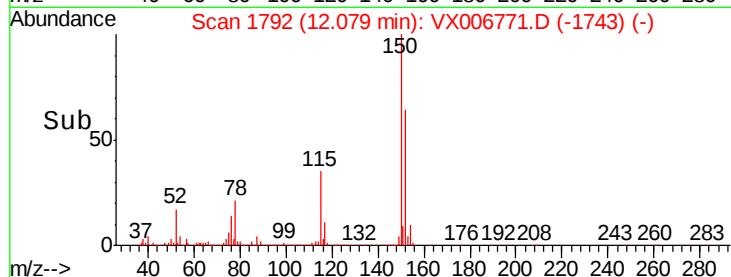
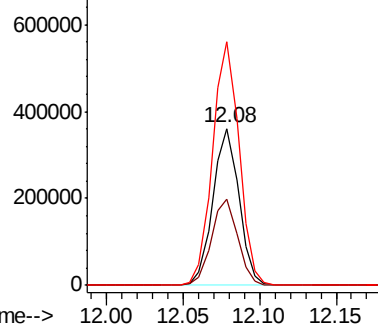
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX006771.D
Acq: 22 Dec 2018 14:50

Instrument :
MSVOA_X
ClientSampleId :
COMP-1

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.5	39.1	117.2
150	157.3	0.0	344.8



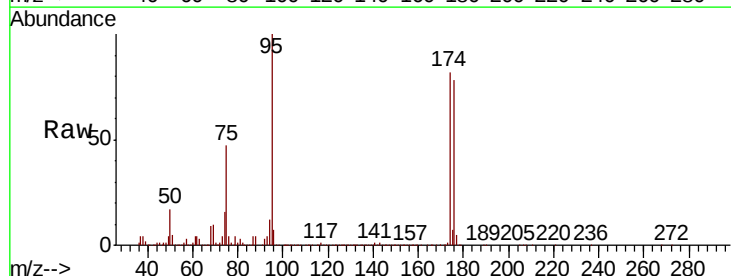
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



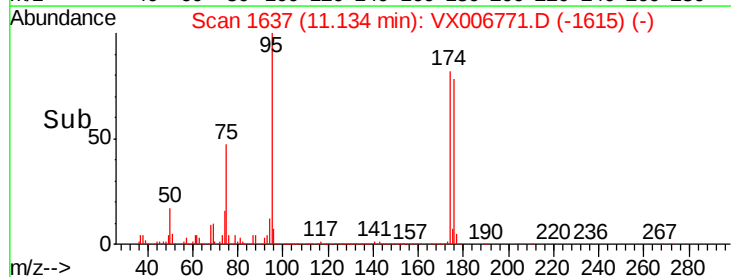
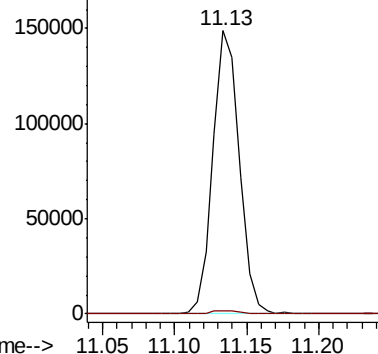
#76

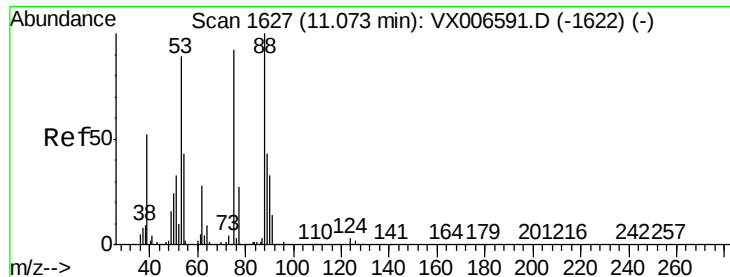
1,2,3-Trichloropropane
Concen: 23.707 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX006771.D
Acq: 22 Dec 2018 14:50

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.5	18.5	55.5#



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: 70.272 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006771.D

Acq: 22 Dec 2018 14:50

Instrument :

MSVOA_X

ClientSampleId :

COMP-1

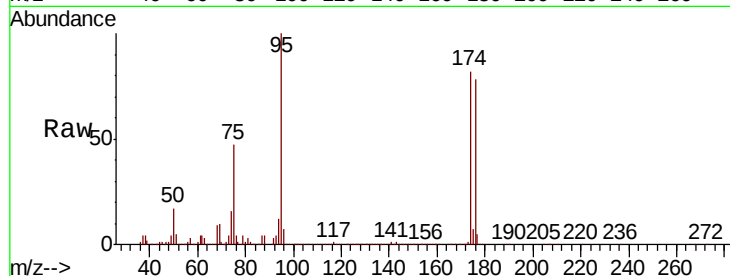
Tot Ion: 75 Resp: 189018

Ion Ratio Lower Upper

75 100

53 0.0 79.7 119.5#

89 0.1 38.0 57.0#



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

11.13

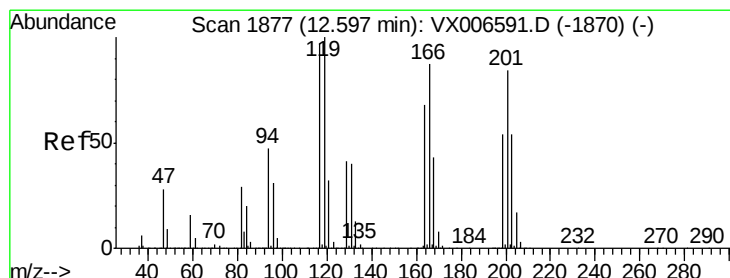
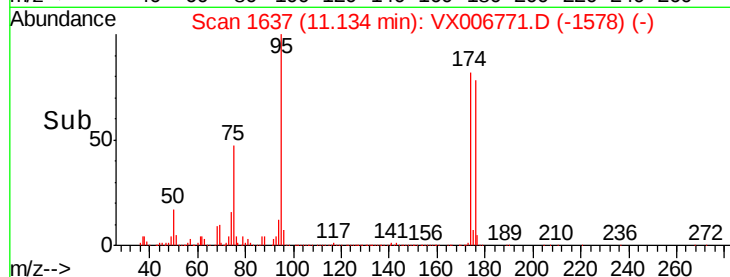
150000

100000

50000

0

Time--> 11.05 11.10 11.15 11.20



#90

Hexachloroethane

Concen: 3.302 ug/l

RT: 12.58 min Scan# 1875

Delta R.T. -0.01 min

Lab File: VX006771.D

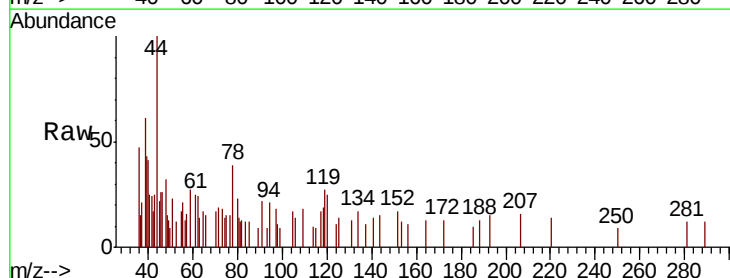
Acq: 22 Dec 2018 14:50

Tgt Ion:117 Resp: 38

Ion Ratio Lower Upper

117 100

201 50.0 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

120

100

80

60

40

20

0

Time--> 12.57 12.58 12.59 12.60

