

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122018\
 Data File : VX006672.D
 Acq On : 20 Dec 2018 13:34
 Operator : JC/MD
 Sample : J6484-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 21 03:30:18 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	639937	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1001908	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	926835	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	438799	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	348499	50.53	ug/l	0.00
Spiked Amount			Recovery	=	101.06%	
35) Dibromofluoromethane	5.50	113	295316	46.61	ug/l	0.00
Spiked Amount			Recovery	=	93.22%	
50) Toluene-d8	8.71	98	1194305	50.00	ug/l	0.00
Spiked Amount			Recovery	=	100.00%	
62) 4-Bromofluorobenzene	11.13	95	429464	49.09	ug/l	0.00
Spiked Amount			Recovery	=	98.18%	

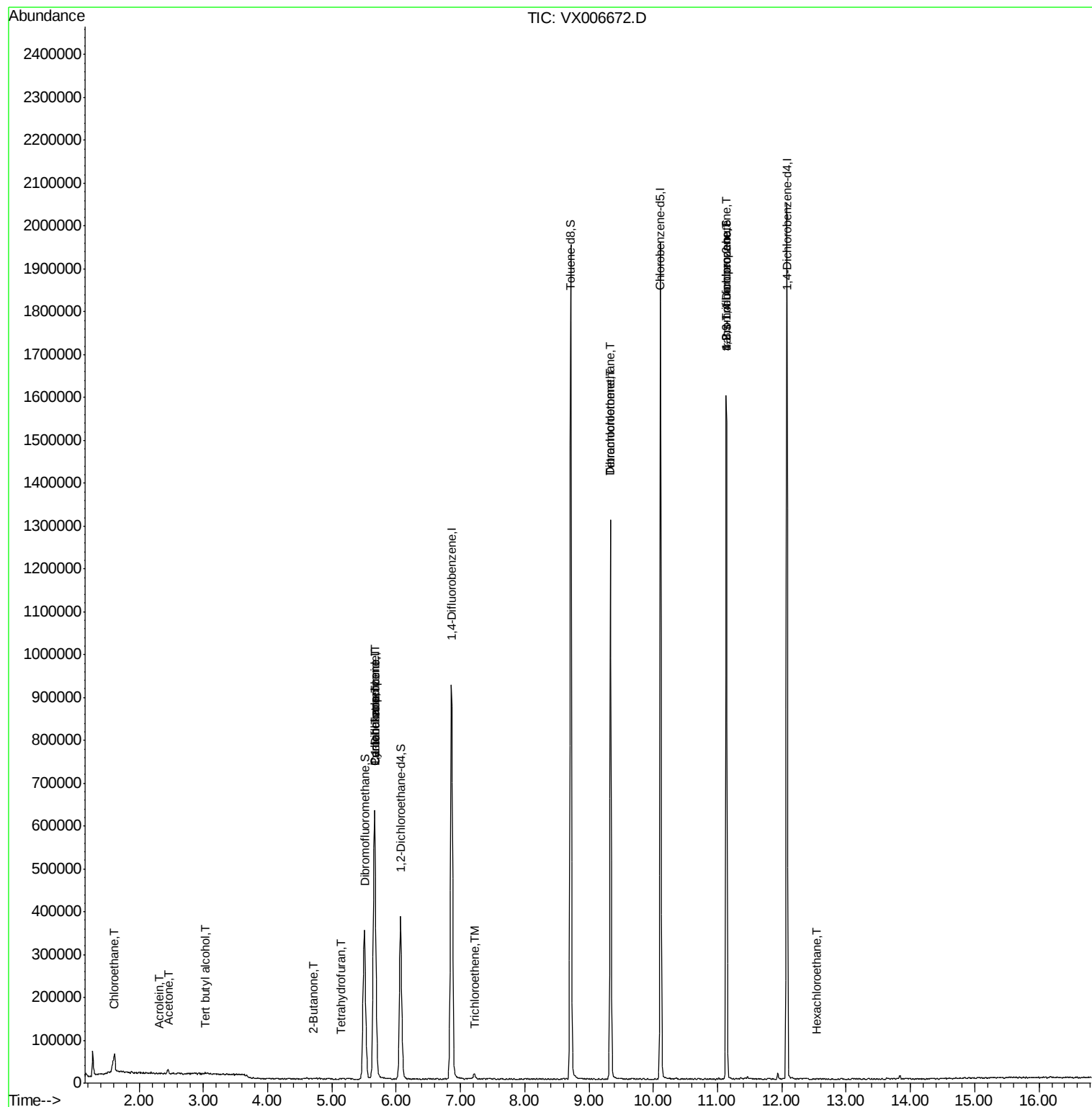
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	449	Below Cal		90
6) Chloroethane	1.61	64	16012	3.511	ug/l #	47
11) Tert butyl alcohol	3.03	59	1751	1.138	ug/l #	82
13) Acrolein	2.32	56	361	0.348	ug/l #	32
16) Acetone	2.45	43	10898	3.439	ug/l	96
25) 2-Butanone	4.71	43	2304	0.517	ug/l #	85
28) Bromochloromethane	5.04	49	168	Below Cal	#	47
29) Tetrahydrofuran	5.15	42	2194	0.747	ug/l #	81
31) Cyclohexane	5.66	56	11031	1.155	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	41593	5.012	ug/l #	43
38) Carbon Tetrachloride	5.66	117	58463	7.249	ug/l #	15
44) Trichloroethene	7.22	130	6114	0.801	ug/l	88
49) 1,4-Dioxane	7.76	88	129	Below Cal	#	1
60) Dibromochloromethane	9.34	129	241063	35.274	ug/l #	10
64) Tetrachloroethene	9.34	164	255070	34.755	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	201237	24.677	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	201237	72.975	ug/l #	10
90) Hexachloroethane	12.54	117	149	3.327	ug/l	57

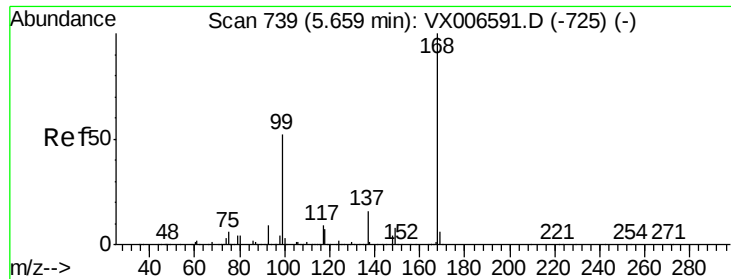
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX006672.D

Acq: 20 Dec 2018 13:34

Instrument :

MSVOA_X

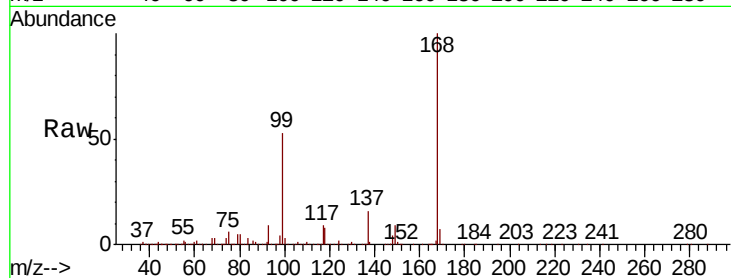
ClientSampled :

Tot Ion:168 Resp: 639937

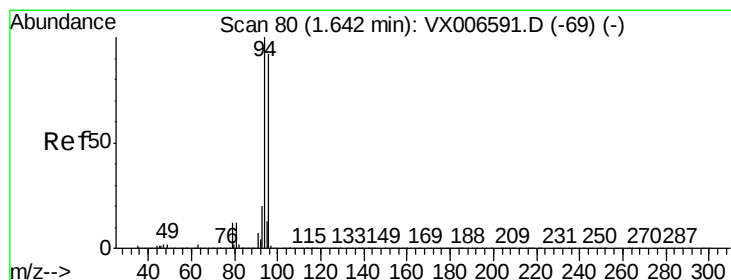
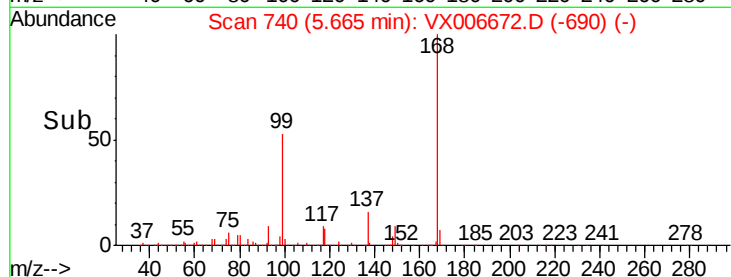
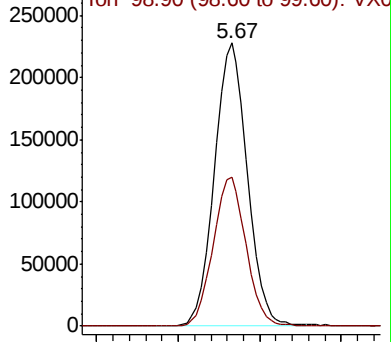
Ion Ratio Lower Upper

168 100

99 52.7 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): VX006672.D (-690) (-)



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006672.D

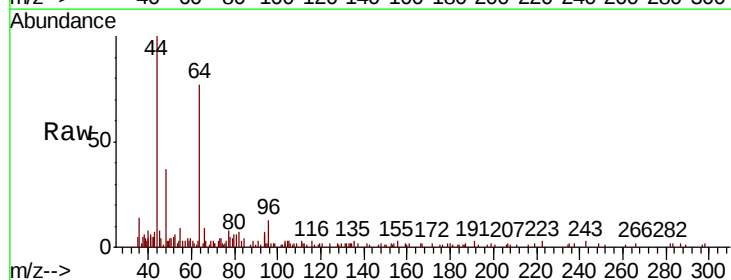
Acq: 20 Dec 2018 13:34

Tgt Ion: 94 Resp: 449

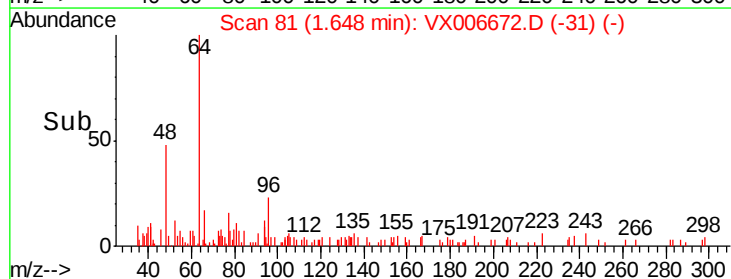
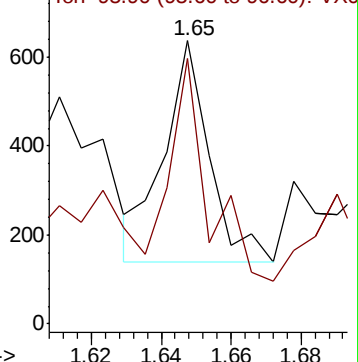
Ion Ratio Lower Upper

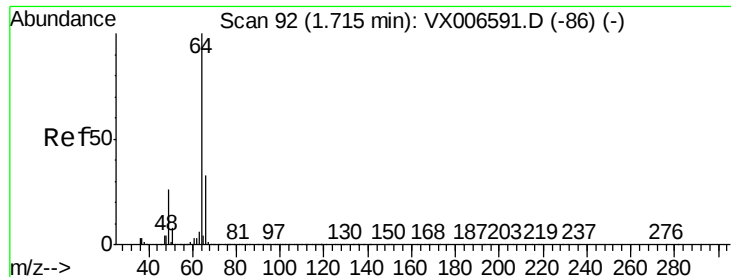
94 100

96 101.0 73.4 110.2



Abundance Ion 93.90 (93.60 to 94.60): VX006672.D (-31) (-)





#6

Chloroethane

Concen: 3.511 ug/l

RT: 1.61 min Scan# 75

Delta R.T. -0.10 min

Lab File: VX006672.D

Acq: 20 Dec 2018 13:34

Instrument :

MSVOA_X

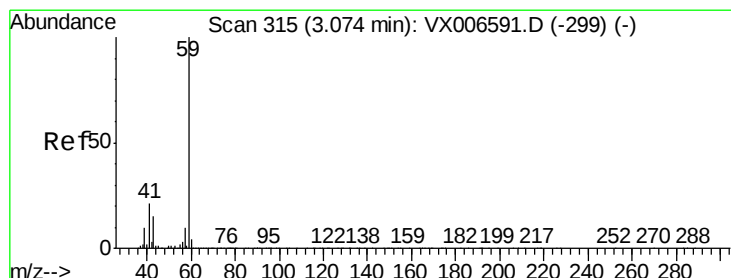
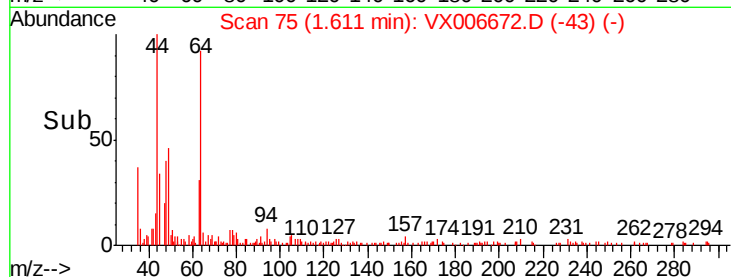
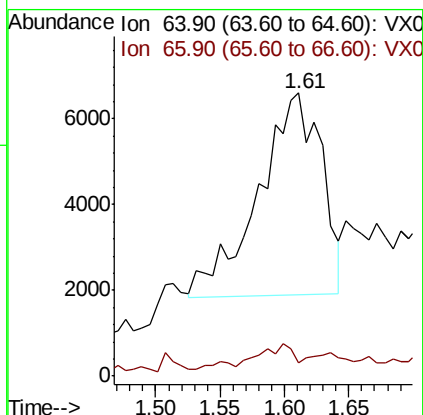
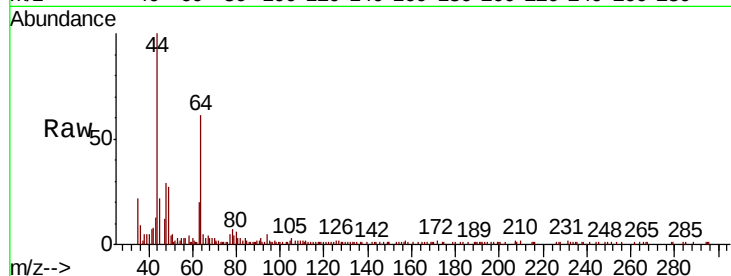
ClientSampleId :

Tot Ion: 64 Resp: 16012

Ion Ratio Lower Upper

64 100

66 3.2 26.4 39.6#



#11

Tert butyl alcohol

Concen: 1.138 ug/l

RT: 3.03 min Scan# 308

Delta R.T. -0.04 min

Lab File: VX006672.D

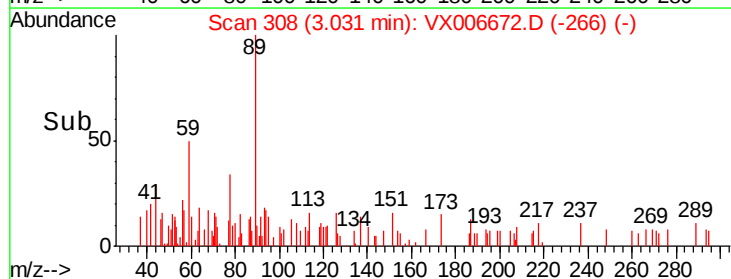
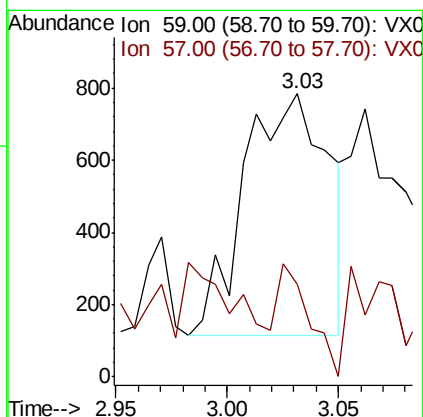
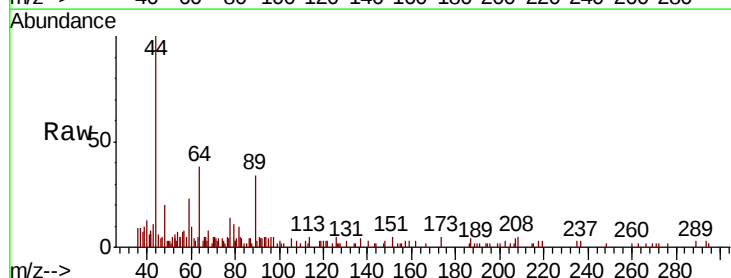
Acq: 20 Dec 2018 13:34

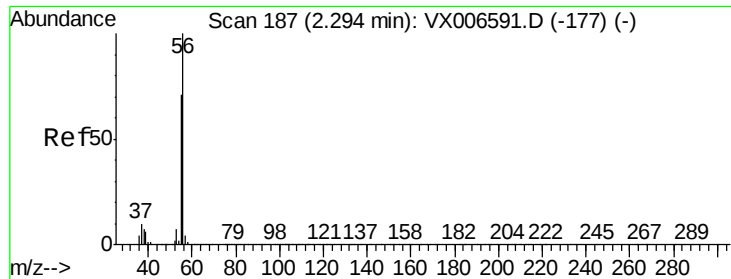
Tgt Ion: 59 Resp: 1751

Ion Ratio Lower Upper

59 100

57 17.2 8.5 12.7#

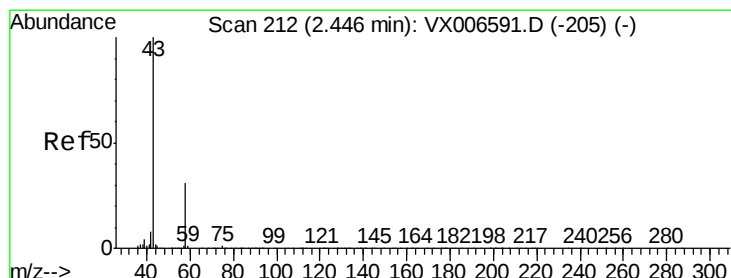
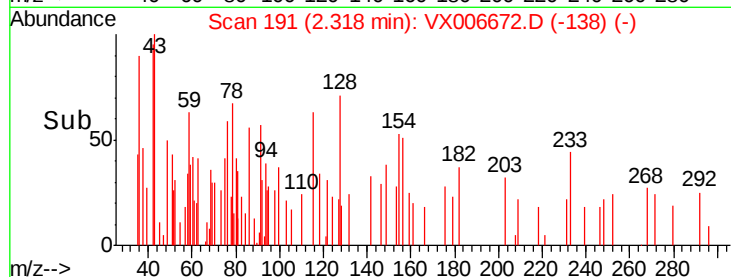
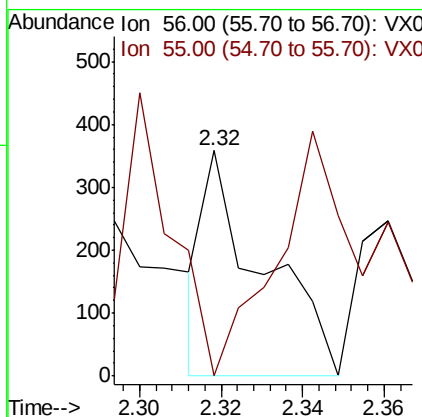
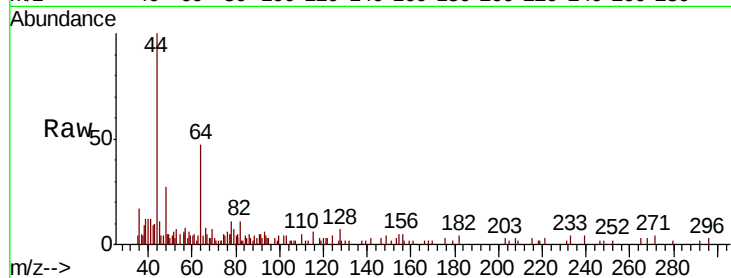




#13
Acrolein
Concen: 0.348 ug/l
RT: 2.32 min Scan# 191
Delta R.T. 0.02 min
Lab File: VX006672.D
Acq: 20 Dec 2018 13:34

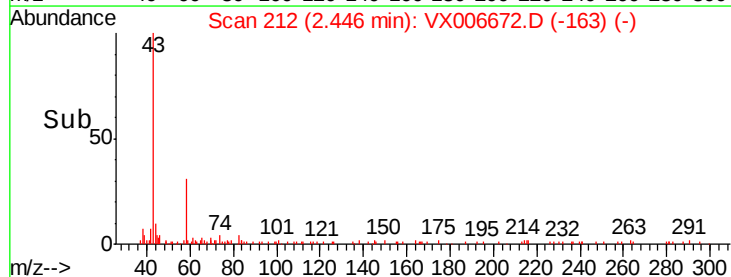
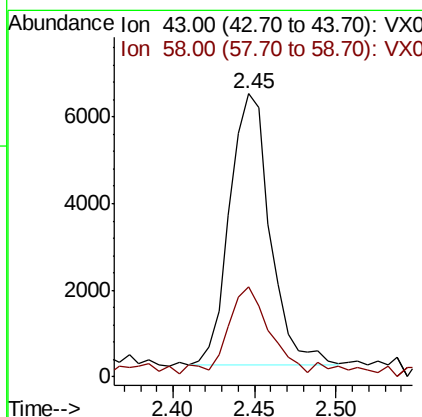
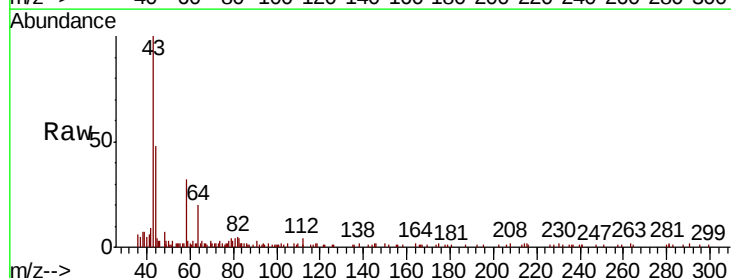
Instrument :
MSVOA_X
ClientSampleId :

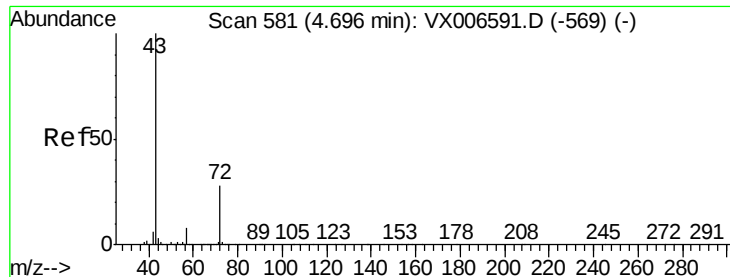
Tot Ion: 56 Resp: 361
Ion Ratio Lower Upper
56 100
55 130.2 58.2 87.4#



#16
Acetone
Concen: 3.439 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX006672.D
Acq: 20 Dec 2018 13:34

Tgt Ion: 43 Resp: 10898
Ion Ratio Lower Upper
43 100
58 29.2 25.0 37.6





#25

2-Butanone

Concen: 0.517 ug/l

RT: 4.71 min Scan# 584

Delta R.T. 0.02 min

Lab File: VX006672.D

Acq: 20 Dec 2018 13:34

Instrument :

MSVOA_X

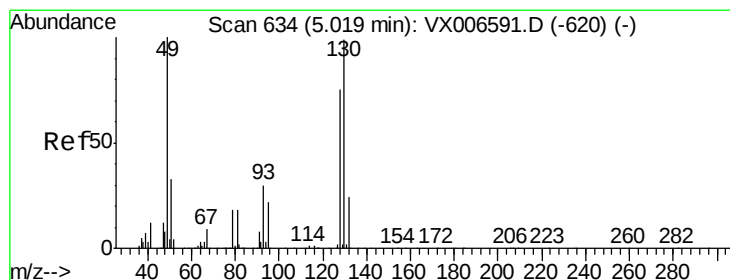
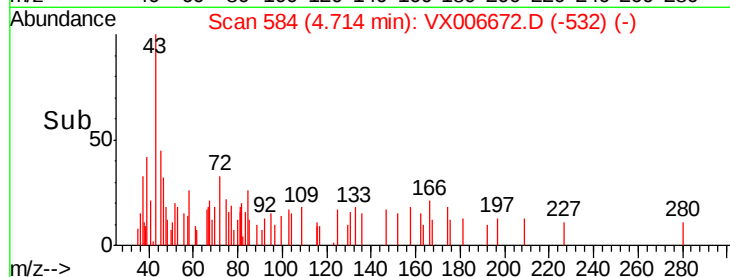
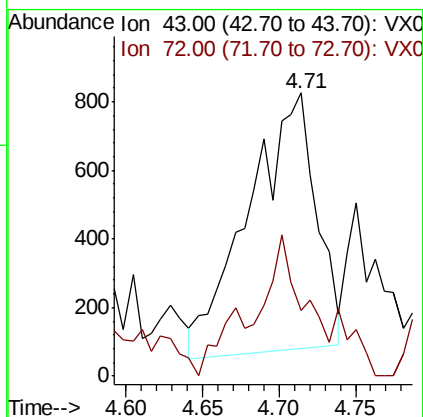
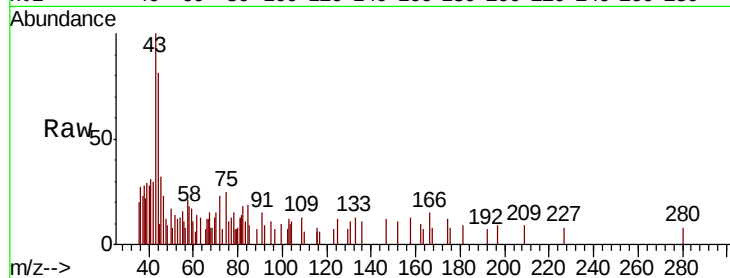
ClientSampled :

Tot Ion: 43 Resp: 2304

Ion Ratio Lower Upper

43 100

72 19.9 22.4 33.6#



#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 638

Delta R.T. 0.02 min

Lab File: VX006672.D

Acq: 20 Dec 2018 13:34

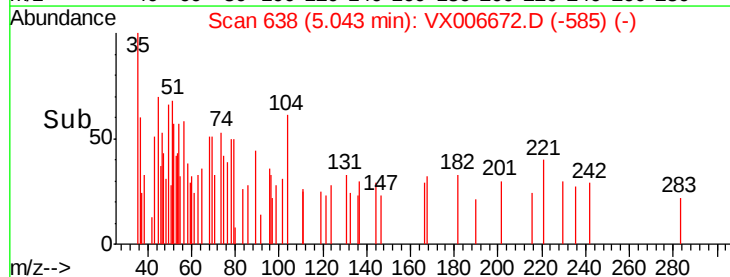
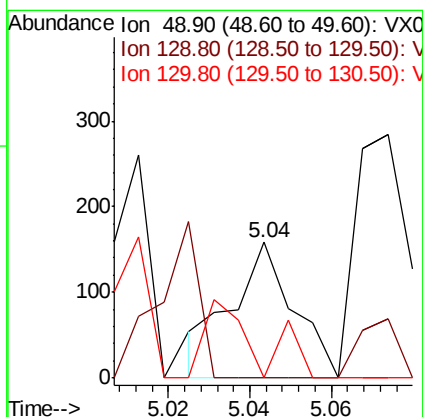
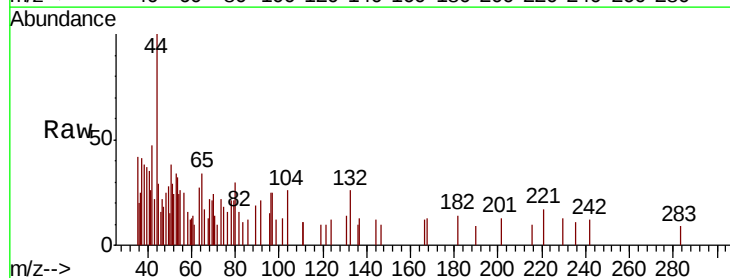
Tgt Ion: 49 Resp: 168

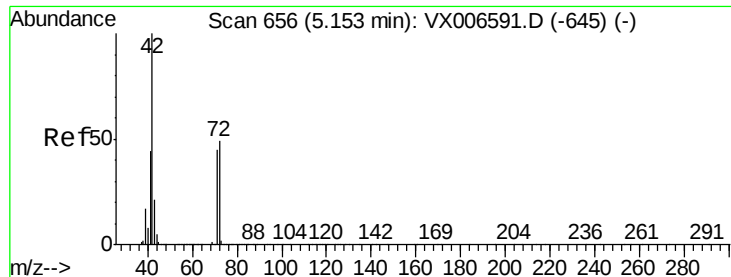
Ion Ratio Lower Upper

49 100

129 74.4 0.0 5.4#

130 49.4 77.7 116.5#





#29

Tetrahydrofuran

Concen: 0.747 ug/l

RT: 5.15 min Scan# 656

Delta R.T. -0.00 min

Lab File: VX006672.D

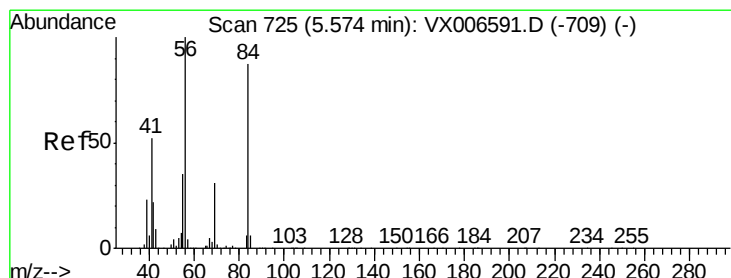
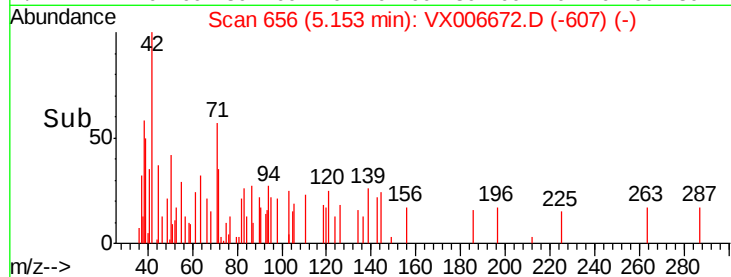
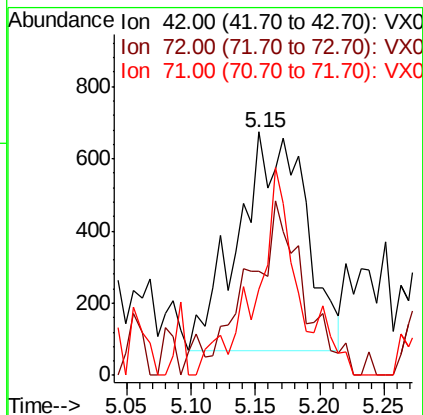
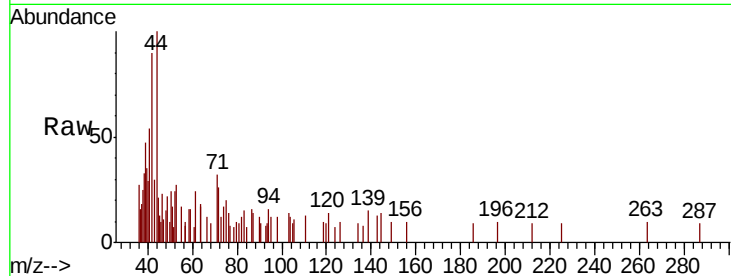
Acq: 20 Dec 2018 13:34

Instrument :

MSVOA_X

ClientSampled :

Tot Ion:	42	Resp:	2194
Ion	Ratio	Lower	Upper
42	100		
72	65.3	38.9	58.3#
71	53.9	36.2	54.4



#31

Cyclohexane

Concen: 1.155 ug/l

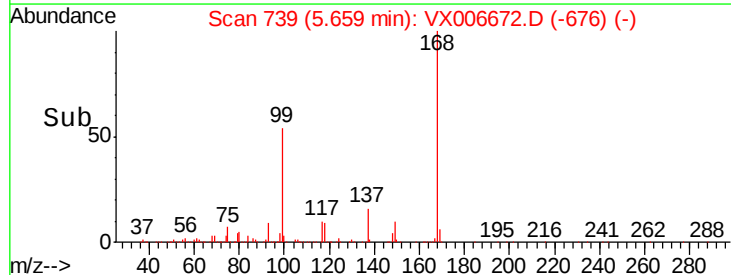
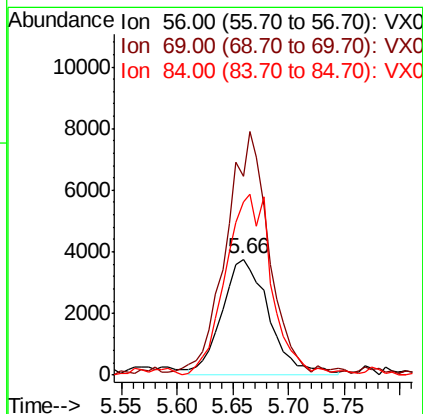
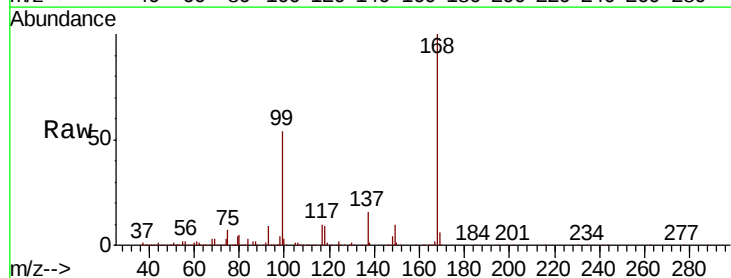
RT: 5.66 min Scan# 739

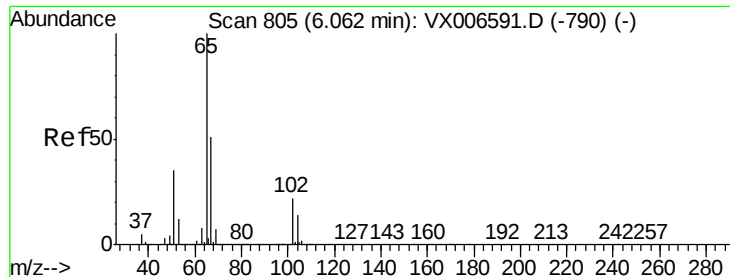
Delta R.T. 0.09 min

Lab File: VX006672.D

Acq: 20 Dec 2018 13:34

Tgt Ion:	56	Resp:	11031
Ion	Ratio	Lower	Upper
56	100		
69	169.0	24.4	36.6#
84	151.3	70.0	105.0#





#33

1,2-Dichloroethane-d4

Concen: 50.529 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006672.D

Acq: 20 Dec 2018 13:34

Instrument :

MSVOA_X

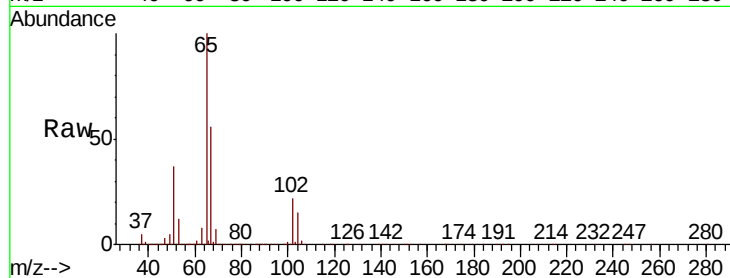
ClientSampleId :

Tot Ion: 65 Resp: 348499

Ion Ratio Lower Upper

65 100

67 53.1 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

150000

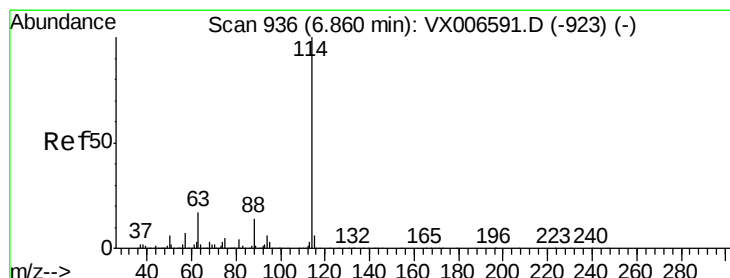
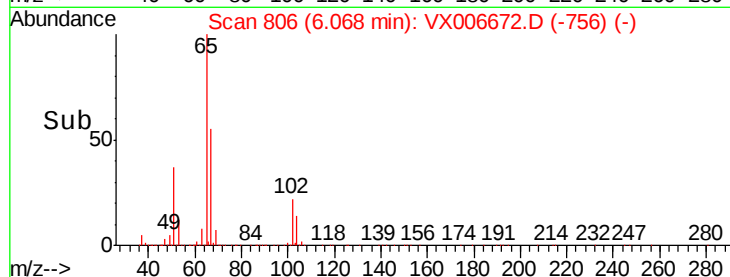
100000

50000

0

6.00 6.10 6.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006672.D

Acq: 20 Dec 2018 13:34

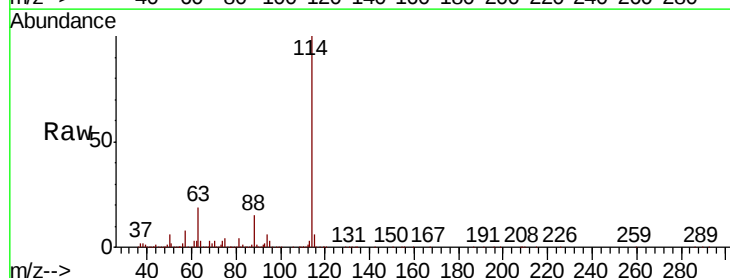
Tgt Ion: 114 Resp: 1001908

Ion Ratio Lower Upper

114 100

63 18.6 0.0 34.8

88 14.6 0.0 28.8



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

6.86

500000

400000

300000

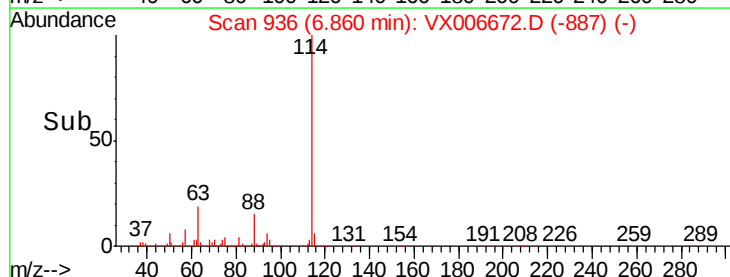
200000

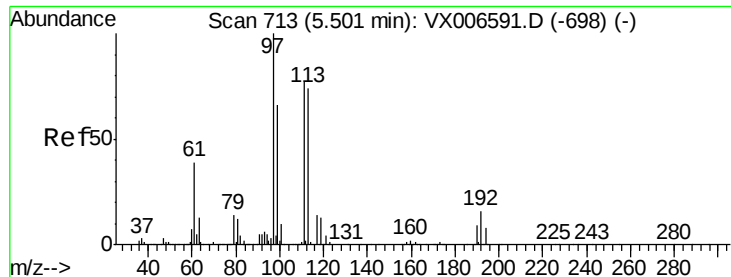
100000

0

6.70 6.80 6.90 7.00

Time-->





#35

Dibromofluoromethane

Concen: 46.610 ug/l

RT: 5.50 min Scan# 713

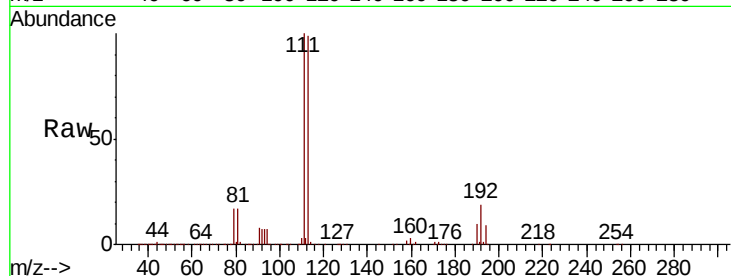
Delta R.T. -0.00 min

Lab File: VX006672.D

Acq: 20 Dec 2018 13:34

Instrument :
MSVOA_X
ClientSampled :

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.6	122.4
192	20.7	16.7	25.1

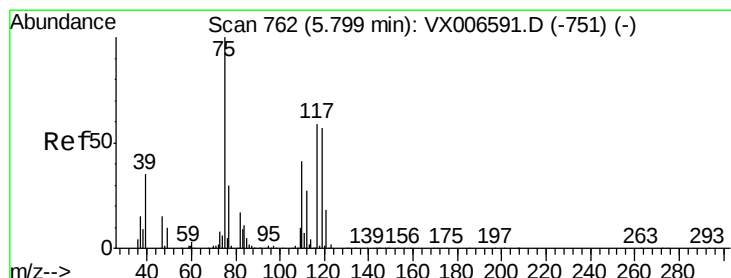
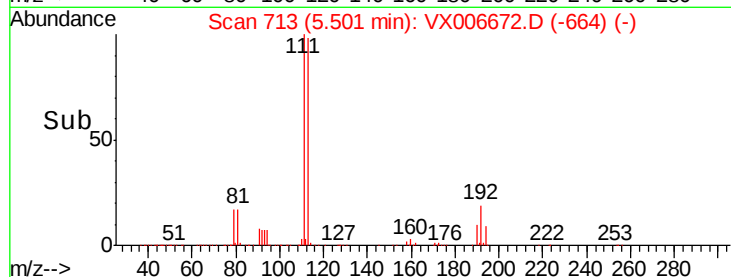
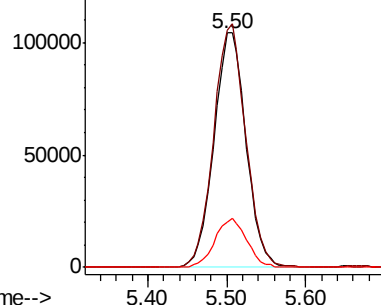


Abundance

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: 5.012 ug/l

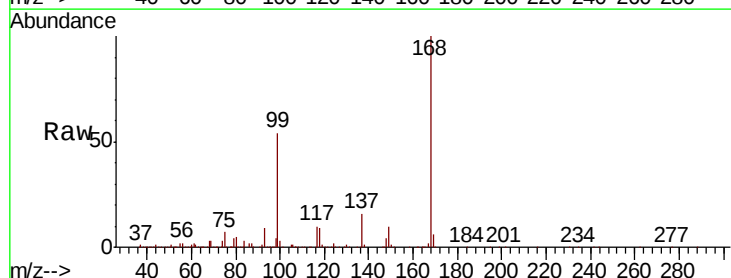
RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006672.D

Acq: 20 Dec 2018 13:34

Tgt Ion	Ratio	Lower	Upper
75	100		
110	5.2	20.2	60.5#
77	0.0	24.8	37.2#

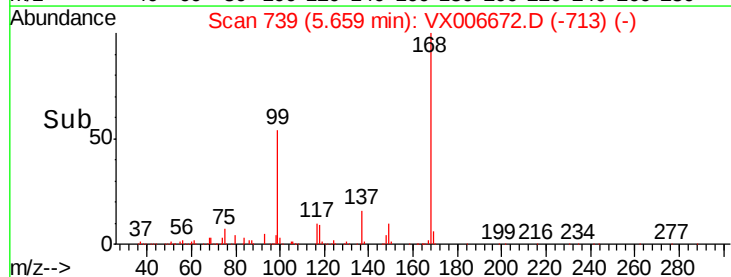
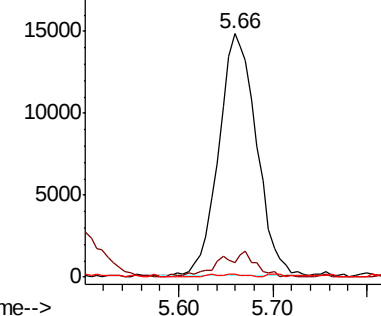


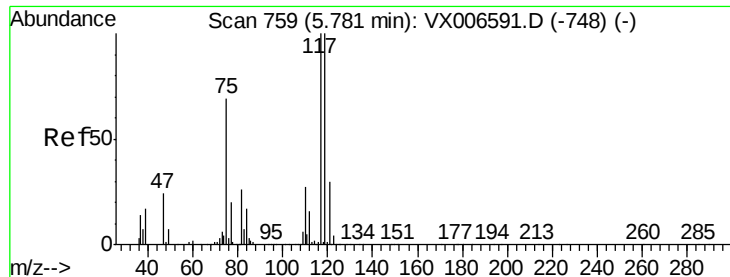
Abundance

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: 7.249 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006672.D

Acq: 20 Dec 2018 13:34

Instrument :

MSVOA_X

ClientSampled :

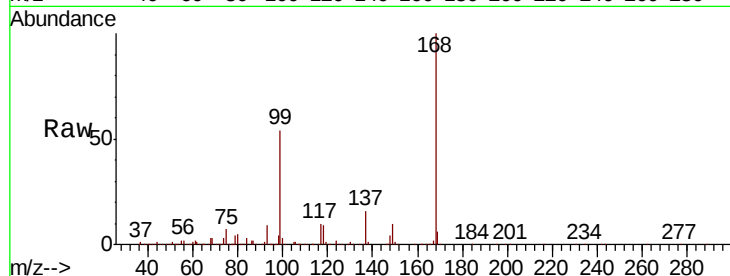
Tot Ion:117 Resp: 58463

Ion Ratio Lower Upper

117 100

119 5.3 79.4 119.2#

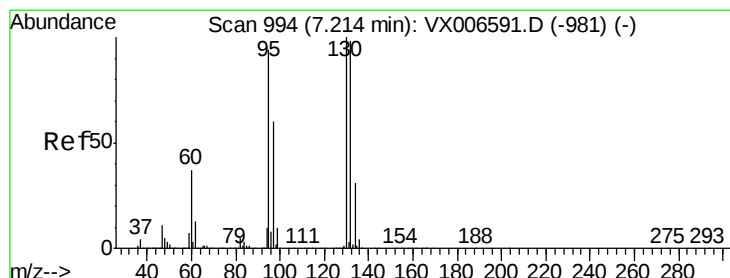
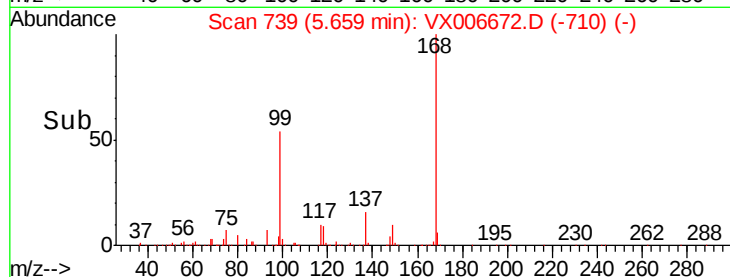
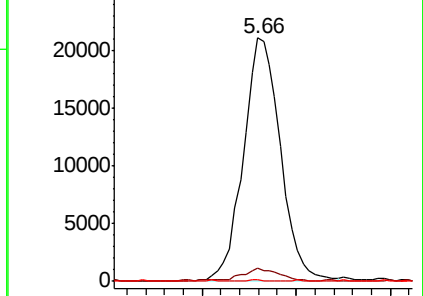
121 0.6 24.0 36.0#



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



#44

Trichloroethene

Concen: 0.801 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX006672.D

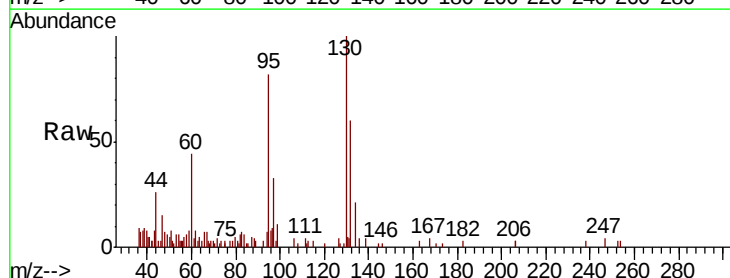
Acq: 20 Dec 2018 13:34

Tgt Ion:130 Resp: 6114

Ion Ratio Lower Upper

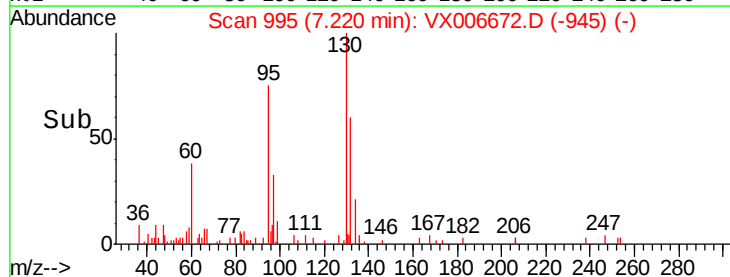
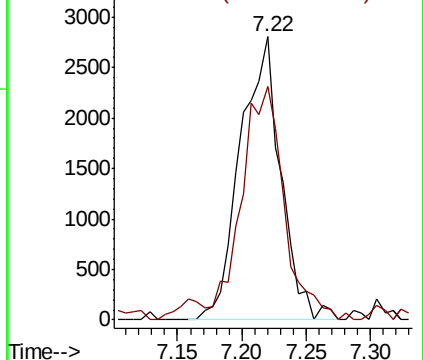
130 100

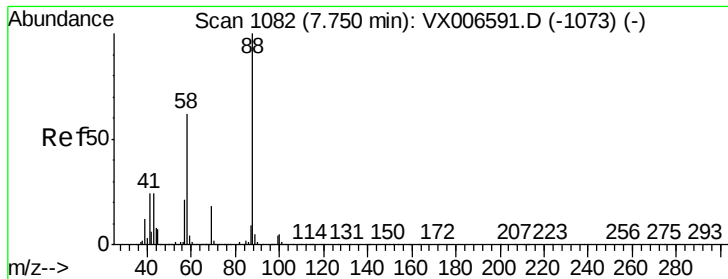
95 82.4 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

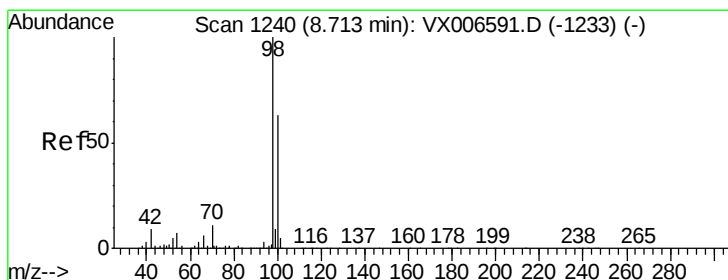
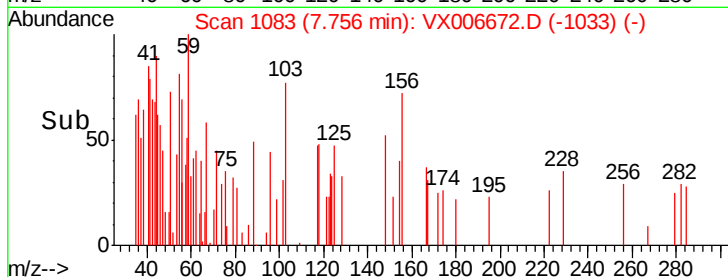
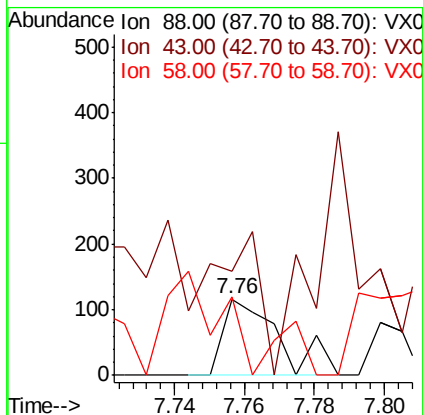
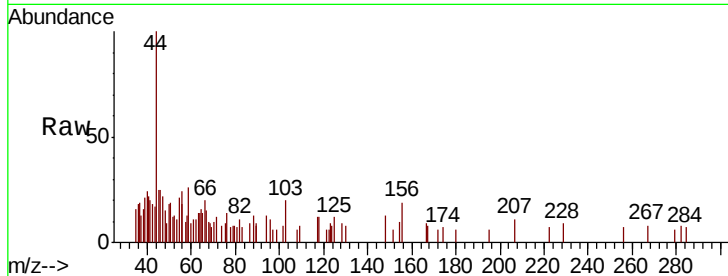
Lab File: VX006672.D

Acq: 20 Dec 2018 13:34

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 88 Resp: 129

Ion	Ratio	Lower	Upper
88	100		
43	348.1	22.2	33.4#
58	130.2	51.0	76.4#



#50

Toluene-d8

Concen: 49.999 ug/l

RT: 8.71 min Scan# 1240

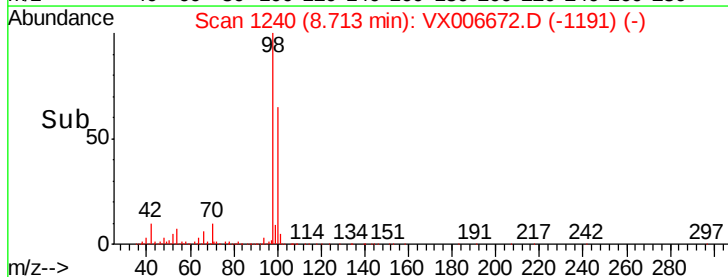
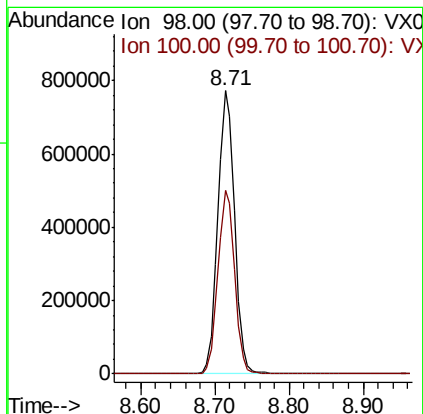
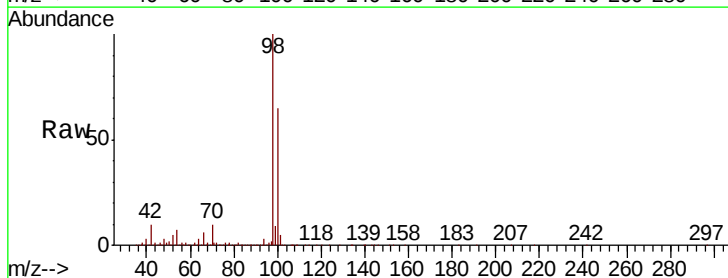
Delta R.T. -0.00 min

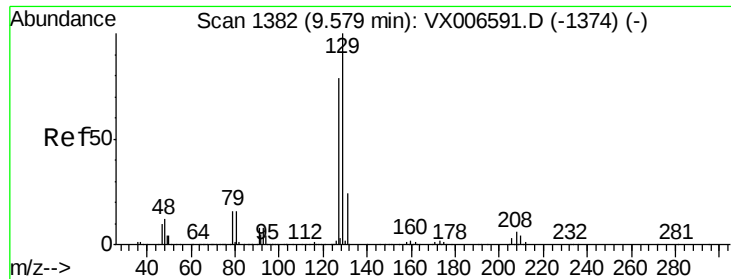
Lab File: VX006672.D

Acq: 20 Dec 2018 13:34

Tgt Ion: 98 Resp: 1194305

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.0	78.0





#60

Dibromochloromethane

Concen: 35.274 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX006672.D

Acq: 20 Dec 2018 13:34

Instrument :

MSVOA_X

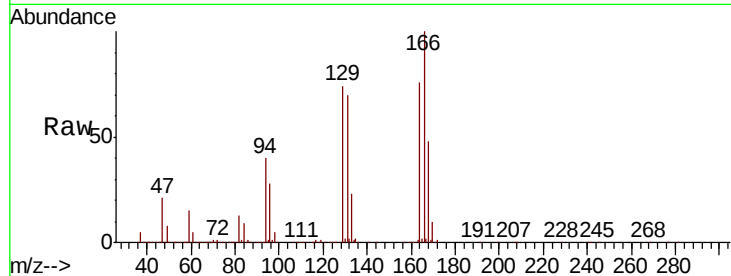
ClientSampleId :

Tot Ion:129 Resp: 241063

Ion Ratio Lower Upper

129 100

127 0.1 39.3 117.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.34

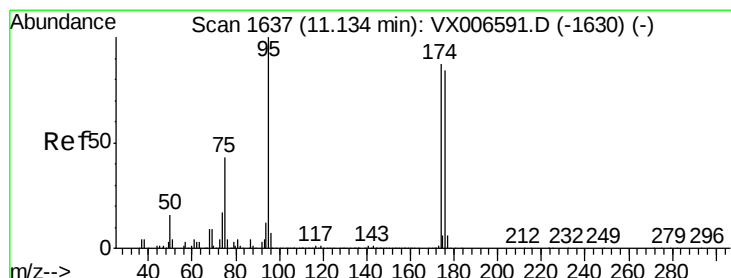
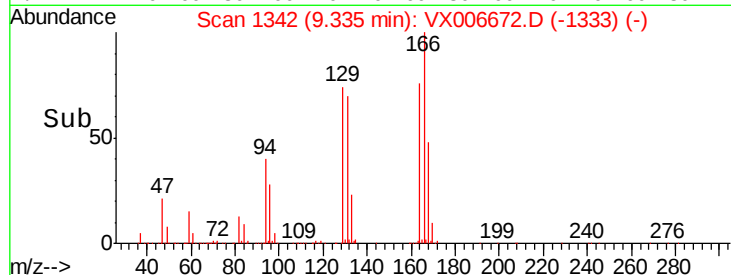
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 49.092 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006672.D

Acq: 20 Dec 2018 13:34

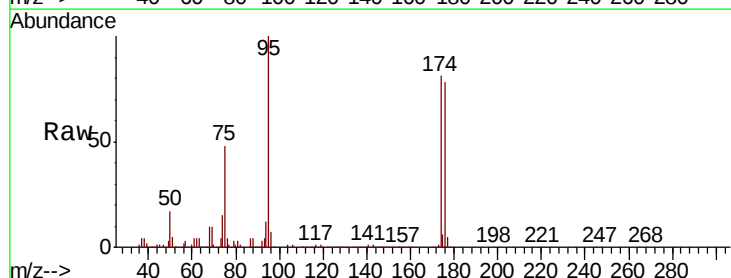
Tgt Ion: 95 Resp: 429464

Ion Ratio Lower Upper

95 100

174 86.6 0.0 182.2

176 84.4 0.0 178.8



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

400000

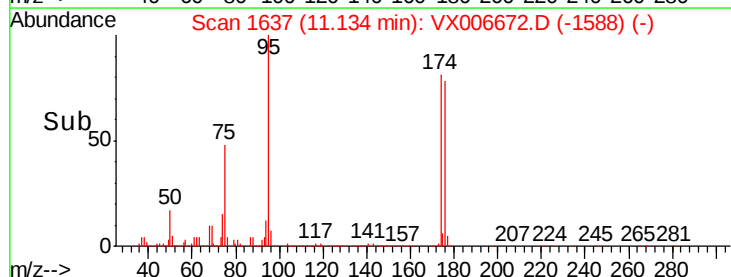
300000

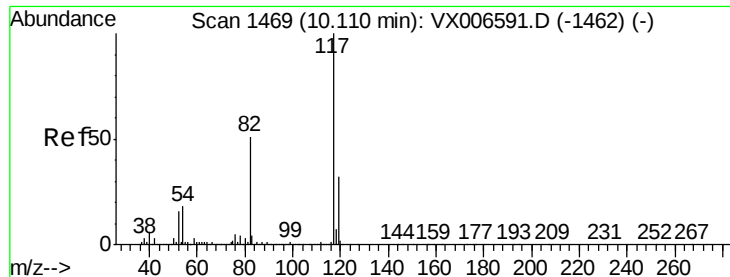
200000

100000

0

Time-->

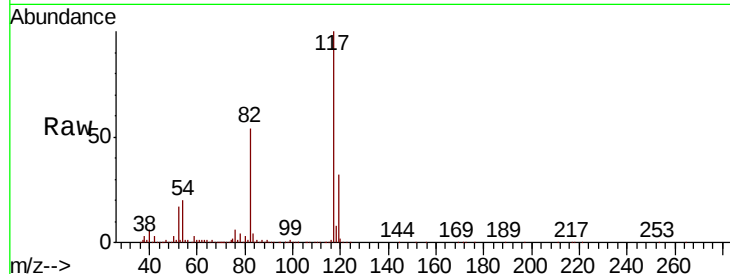




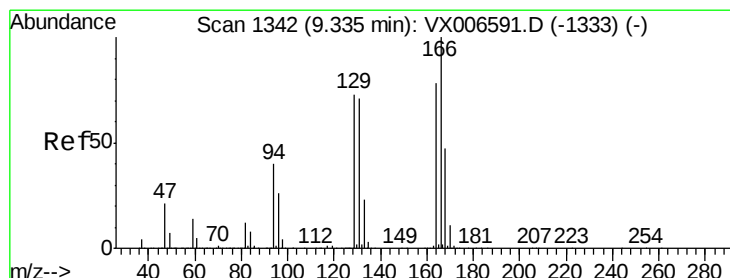
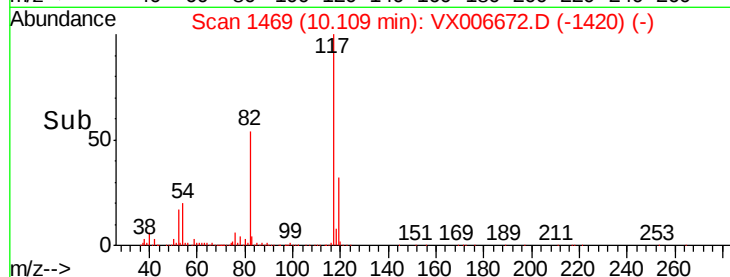
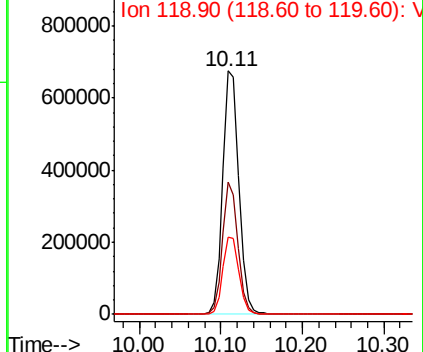
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX006672.D
Acq: 20 Dec 2018 13:34

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 926835
Ion Ratio Lower Upper
117 100
82 54.3 41.0 61.6
119 31.5 25.4 38.0



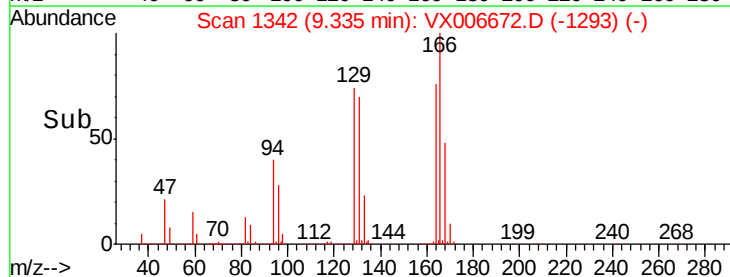
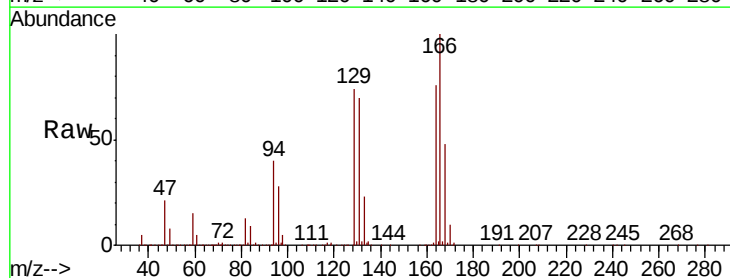
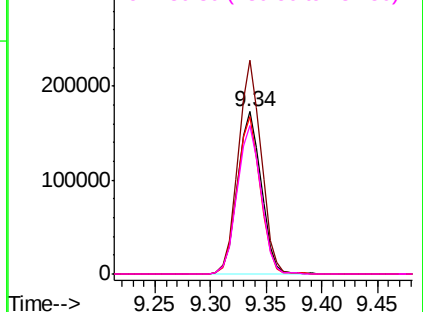
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

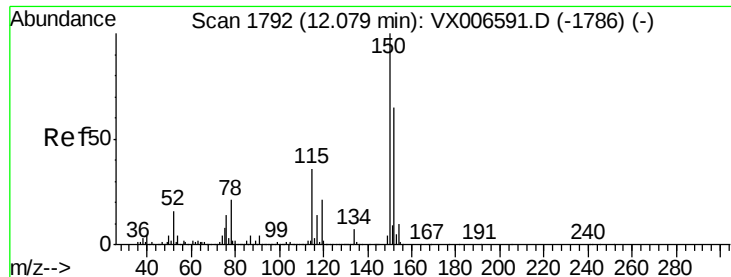


#64
Tetrachloroethene
Concen: 34.755 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX006672.D
Acq: 20 Dec 2018 13:34

Tgt Ion:164 Resp: 255070
Ion Ratio Lower Upper
164 100
166 131.5 102.5 153.7
129 97.0 75.1 112.7
131 91.8 72.7 109.1

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: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006672.D

Acq: 20 Dec 2018 13:34

Instrument :

MSVOA_X

ClientSampleId :

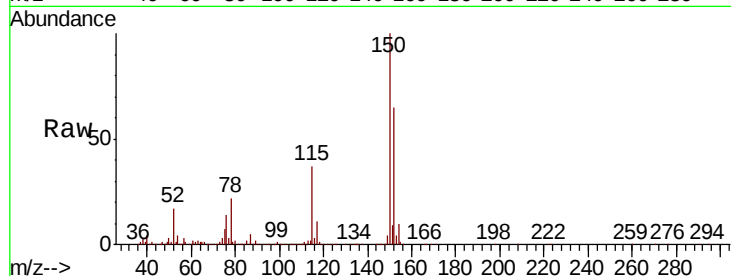
Tot Ion:152 Resp: 438799

Ion Ratio Lower Upper

152 100

115 56.5 39.1 117.2

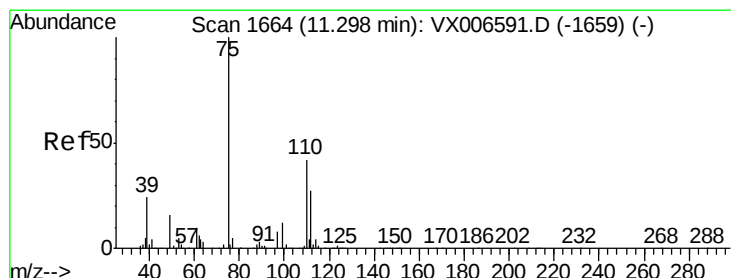
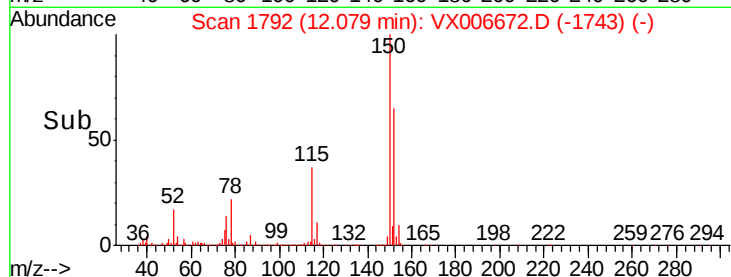
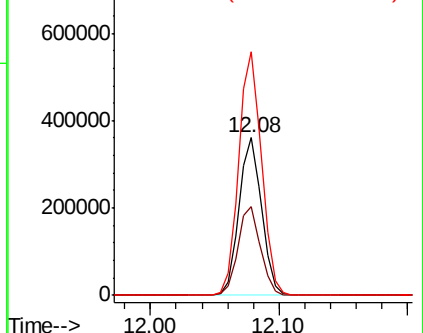
150 156.1 0.0 344.8



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: 24.677 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006672.D

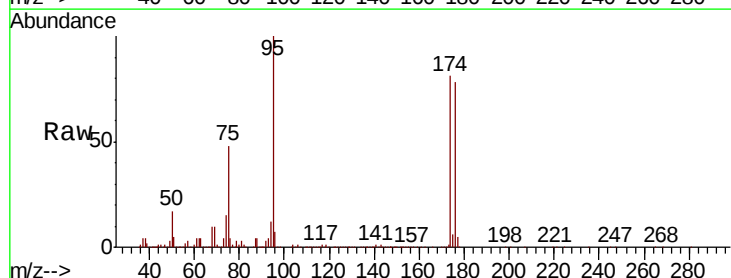
Acq: 20 Dec 2018 13:34

Tgt Ion: 75 Resp: 201237

Ion Ratio Lower Upper

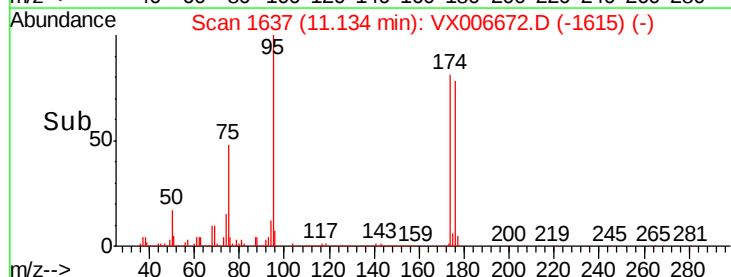
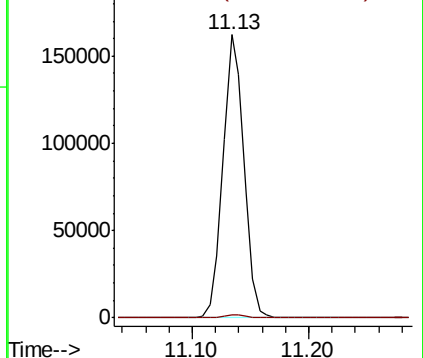
75 100

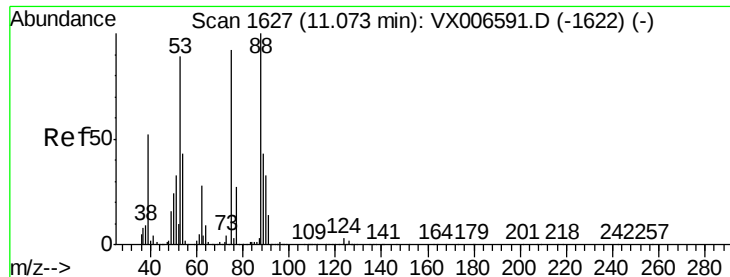
77 1.4 18.5 55.5#



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: 72.975 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006672.D

Acq: 20 Dec 2018 13:34

Instrument :

MSVOA_X

ClientSampleId :

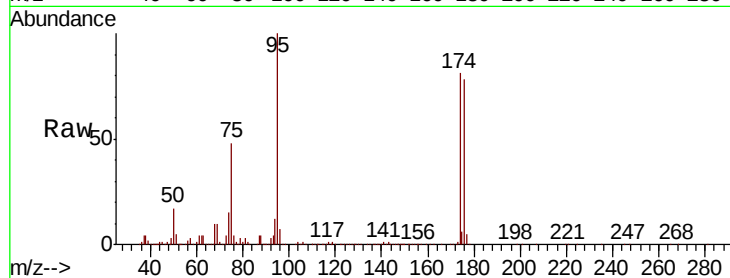
Tot Ion: 75 Resp: 201237

Ion Ratio Lower Upper

75 100

53 0.2 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

200000

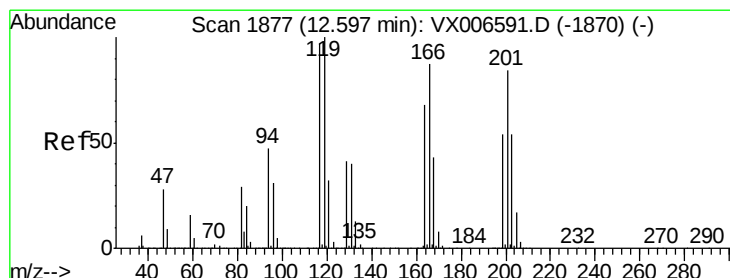
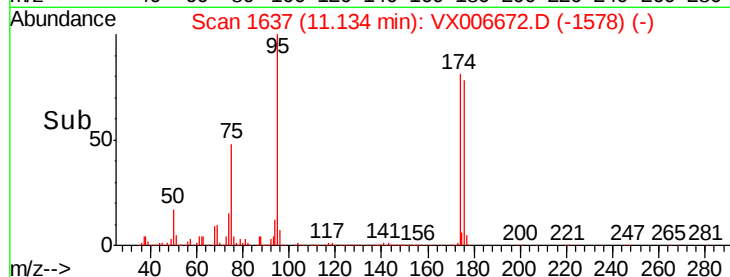
150000

100000

50000

0

Time-->



#90

Hexachloroethane

Concen: 3.327 ug/l

RT: 12.54 min Scan# 1868

Delta R.T. -0.05 min

Lab File: VX006672.D

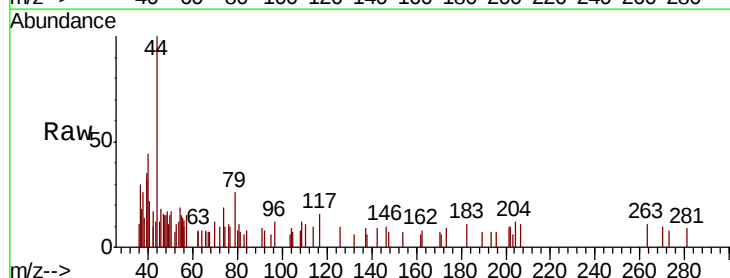
Acq: 20 Dec 2018 13:34

Tgt Ion: 117 Resp: 149

Ion Ratio Lower Upper

117 100

201 46.3 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

12.54

150

100

50

0

Time-->

