

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX101718\
 Data File : VX005390.D
 Acq On : 17 Oct 2018 14:55
 Operator : JC/MD
 Sample : J5572-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OUTFALL001-181016

Quant Time: Oct 17 16:41:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	284670	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	398587	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	356034	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	176861	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	161445	51.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.20%	
35) Dibromofluoromethane	5.50	113	126173	47.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.58%	
50) Toluene-d8	8.71	98	470920	51.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.92%	
62) 4-Bromofluorobenzene	11.14	95	156322	45.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.82%	

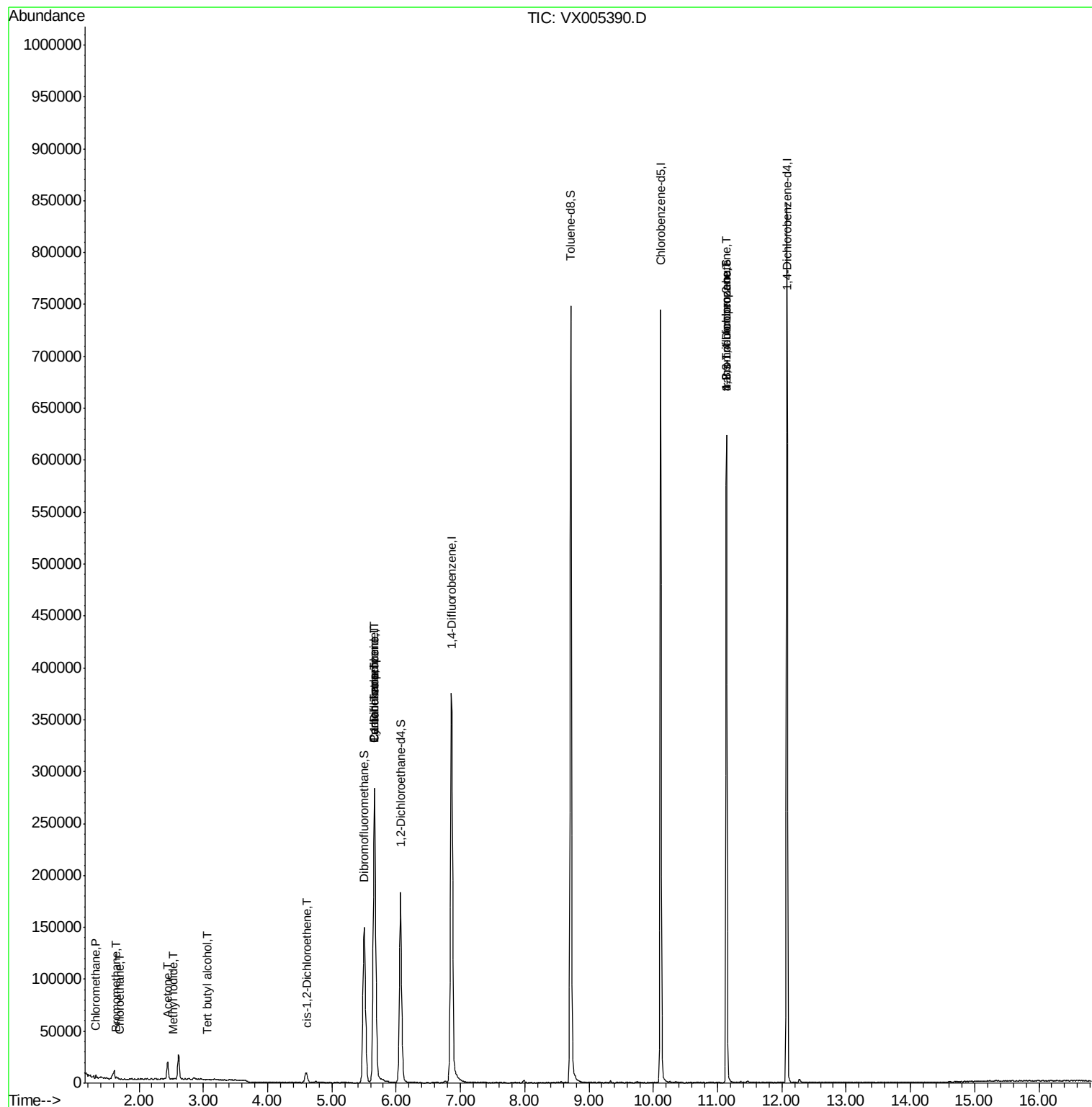
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1428	0.44	ug/l #	83
5) Bromomethane	1.64	94	314	0.75	ug/l #	32
6) Chloroethane	1.70	64	113	0.39	ug/l #	44
10) Methyl Iodide	2.52	142	339	2.61	ug/l #	80
11) Tert butyl alcohol	3.06	59	409	0.46	ug/l #	86
13) Acrolein	2.31	56	42	Below Cal	#	16
16) Acetone	2.44	43	17738	9.71	ug/l	88
20) Methylene Chloride	2.85	84	598	Below Cal	#	83
27) cis-1,2-Dichloroethene	4.60	96	6288	2.09	ug/l	99
31) Cyclohexane	5.66	56	4915	1.13	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	18121	4.69	ug/l #	50
38) Carbon Tetrachloride	5.67	117	24841	6.40	ug/l #	15
44) Trichloroethene	7.21	130	253	Below Cal		99
76) 1,2,3-Trichloropropane	11.14	75	76601	22.33	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	76601	67.85	ug/l #	10

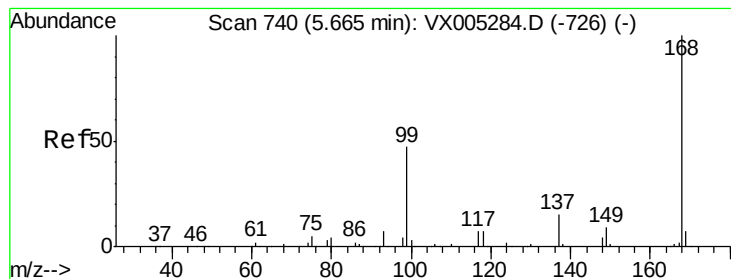
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX005390.D

Acq: 17 Oct 2018 14:55

Instrument :

MSVOA_X

ClientSampleId :

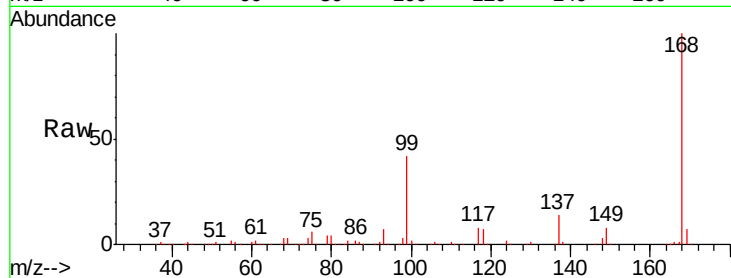
OUTFALL001-181016

Tgt Ion:168 Resp: 284670

Ion Ratio Lower Upper

168 100

99 42.0 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): VX005284.D (-726) (-)

Ion 98.90 (98.60 to 99.60): VX005284.D (-726) (-)

5.67

120000

100000

80000

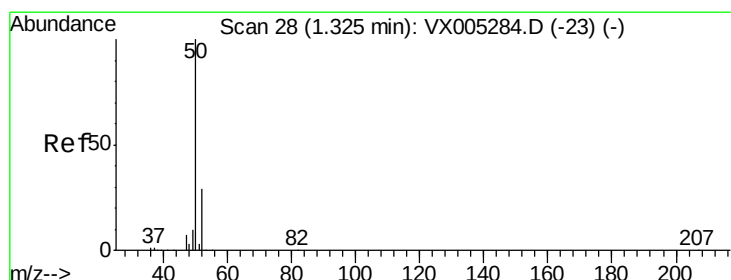
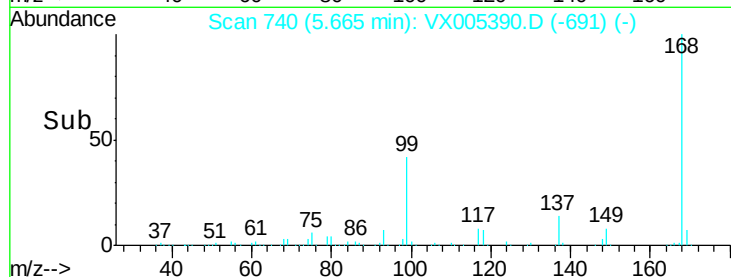
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.44 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX005390.D

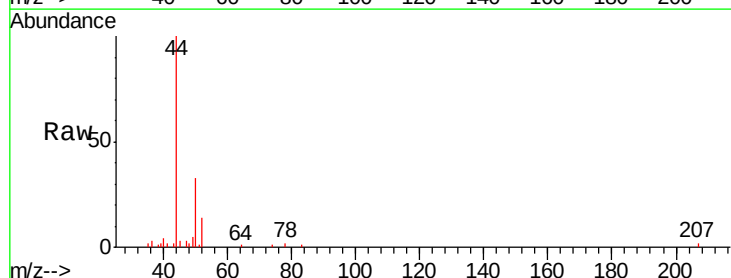
Acq: 17 Oct 2018 14:55

Tgt Ion: 50 Resp: 1428

Ion Ratio Lower Upper

50 100

52 42.2 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX005284.D (-23) (-)

Ion 51.90 (51.60 to 52.60): VX005284.D (-23) (-)

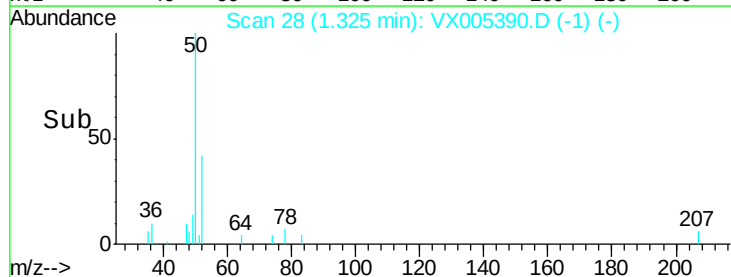
1.32

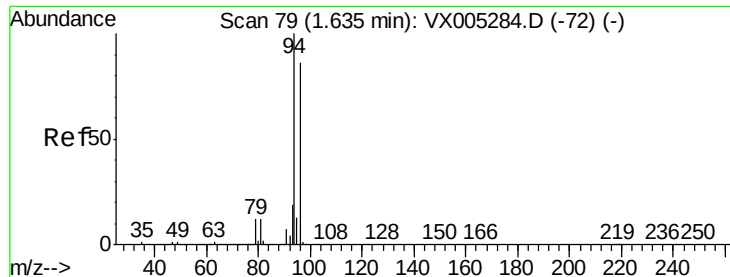
1000

500

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 0.75 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005390.D

Acq: 17 Oct 2018 14:55

Instrument :

MSVOA_X

ClientSampleId :

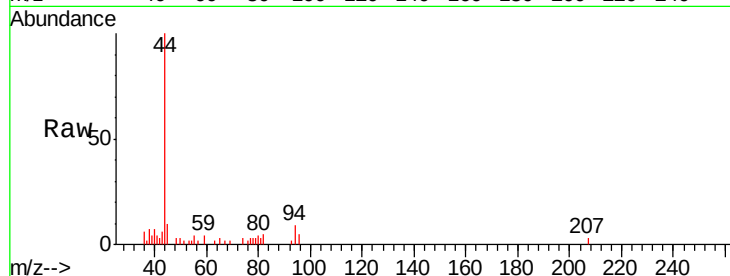
OUTFALL001-181016

Tgt Ion: 94 Resp: 314

Ion Ratio Lower Upper

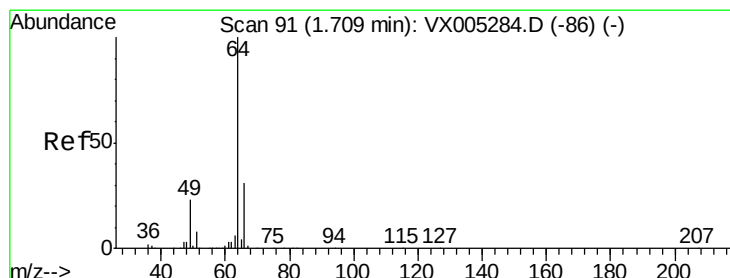
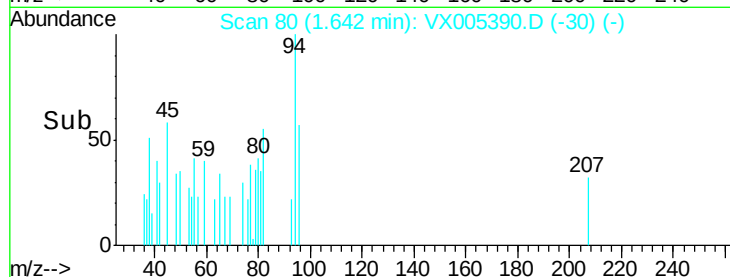
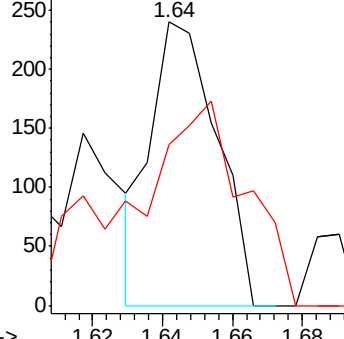
94 100

96 27.5 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: 0.39 ug/l

RT: 1.70 min Scan# 89

Delta R.T. -0.01 min

Lab File: VX005390.D

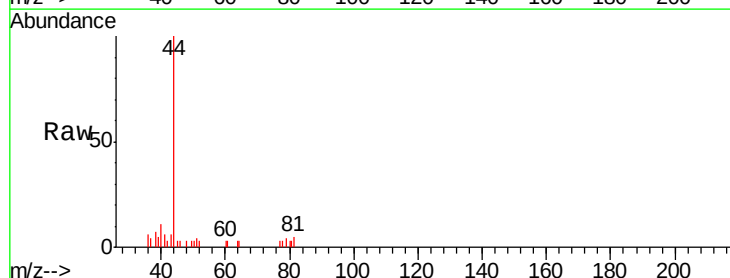
Acq: 17 Oct 2018 14:55

Tgt Ion: 64 Resp: 113

Ion Ratio Lower Upper

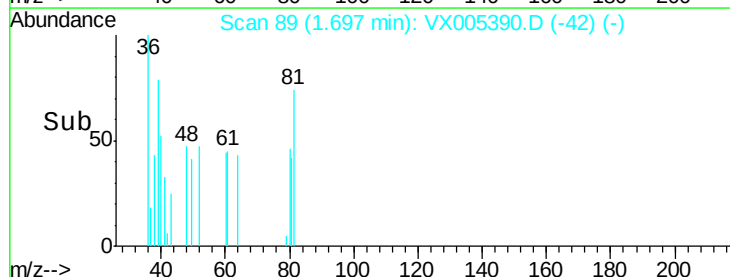
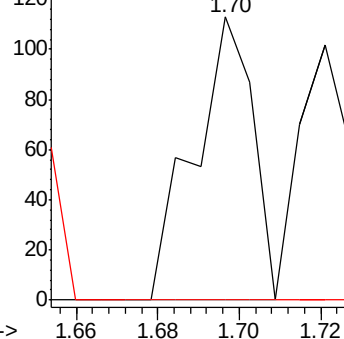
64 100

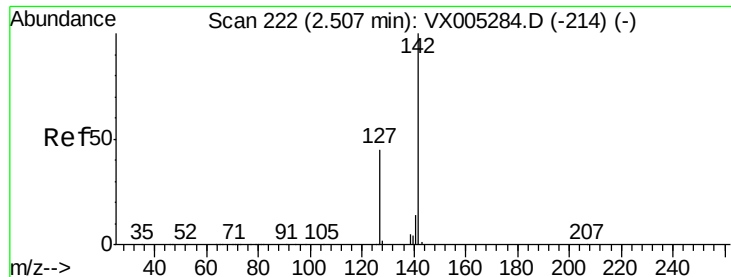
66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#10

Methyl Iodide

Concen: 2.61 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX005390.D

Acq: 17 Oct 2018 14:55

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-181016

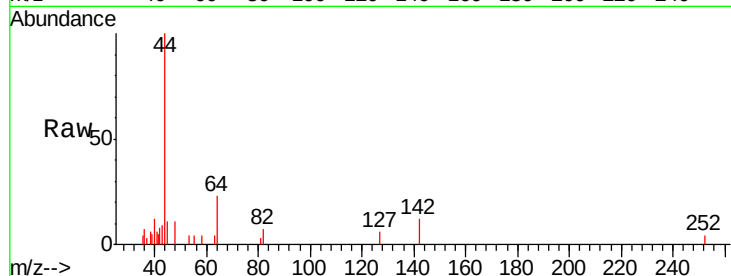
Tgt Ion: 142 Resp: 339

Ion Ratio Lower Upper

142 100

127 51.6 33.8 50.6#

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

250

200

150

100

50

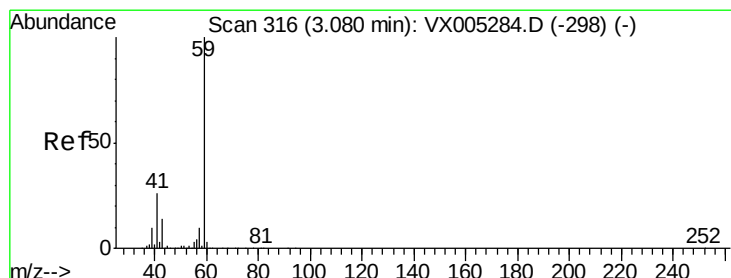
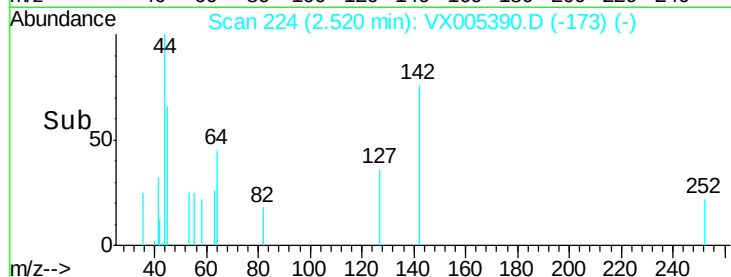
0

2.50

2.52

2.55

Time-->



#11

Tert butyl alcohol

Concen: 0.46 ug/l

RT: 3.06 min Scan# 312

Delta R.T. -0.02 min

Lab File: VX005390.D

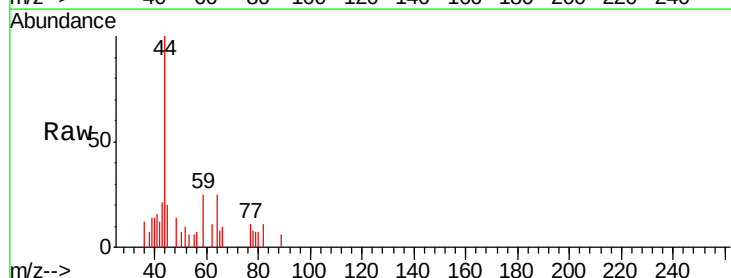
Acq: 17 Oct 2018 14:55

Tgt Ion: 59 Resp: 409

Ion Ratio Lower Upper

59 100

57 5.1 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

250

200

150

100

50

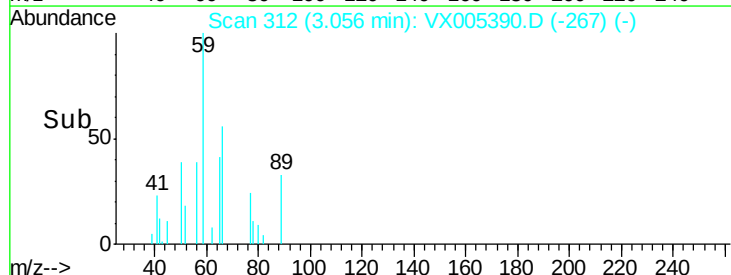
0

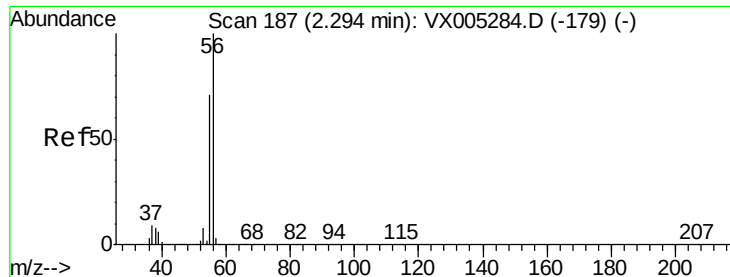
3.05

3.06

3.10

Time-->





#13

Acrolein

Concen: Below Cal

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX005390.D

Acq: 17 Oct 2018 14:55

Instrument :

MSVOA_X

ClientSampleId :

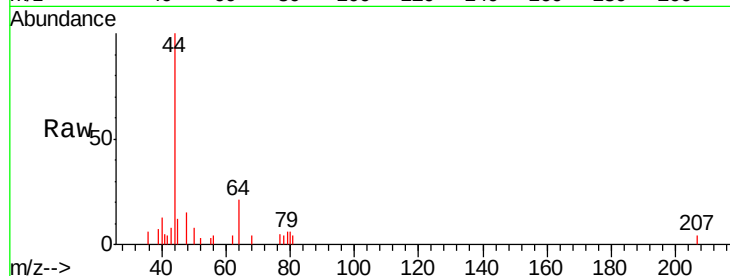
OUTFALL001-181016

Tgt Ion: 56 Resp: 42

Ion Ratio Lower Upper

56 100

55 0.0 54.7 82.1#

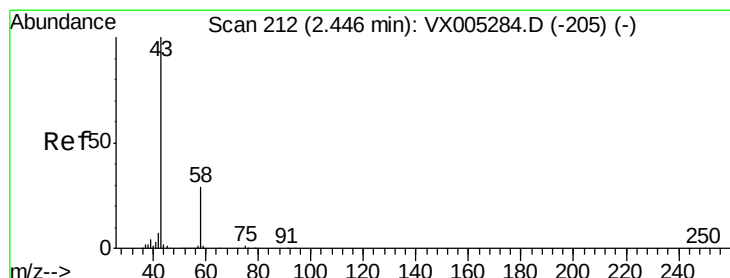
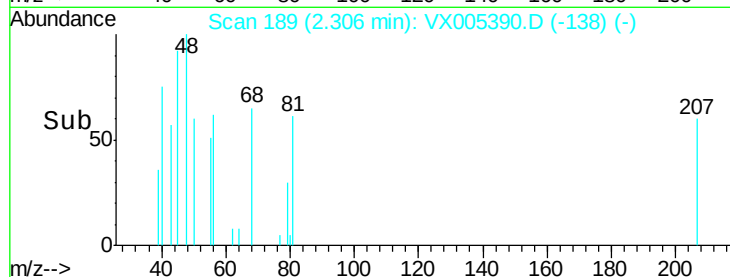


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.31

Time-->



#16

Acetone

Concen: 9.71 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX005390.D

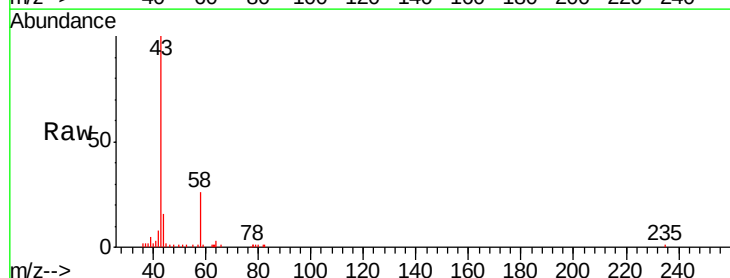
Acq: 17 Oct 2018 14:55

Tgt Ion: 43 Resp: 17738

Ion Ratio Lower Upper

43 100

58 26.3 26.2 39.4

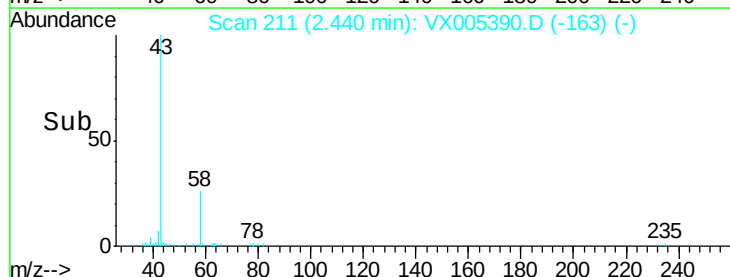


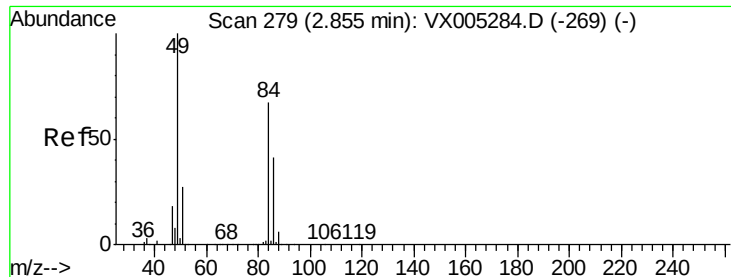
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

Time-->

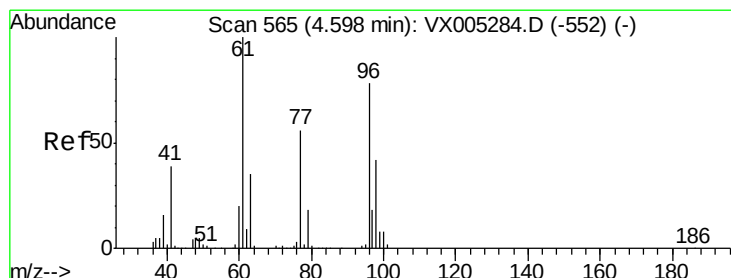
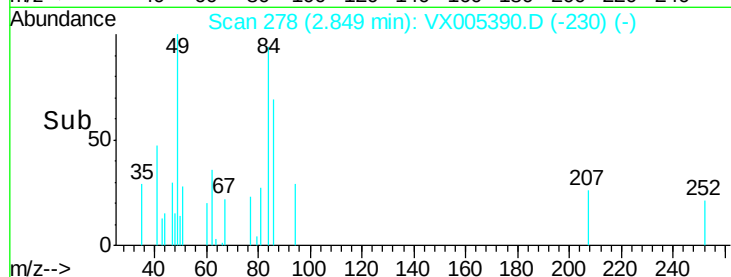
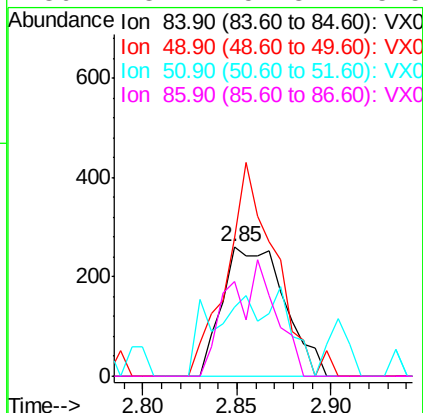
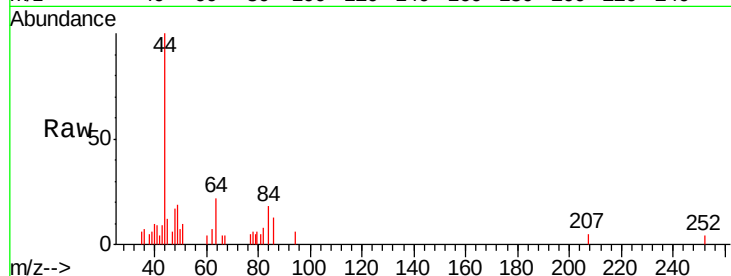




#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 278
Delta R.T. -0.01 min
Lab File: VX005390.D
Acq: 17 Oct 2018 14:55

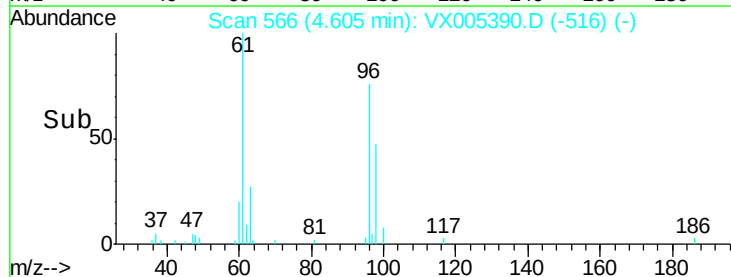
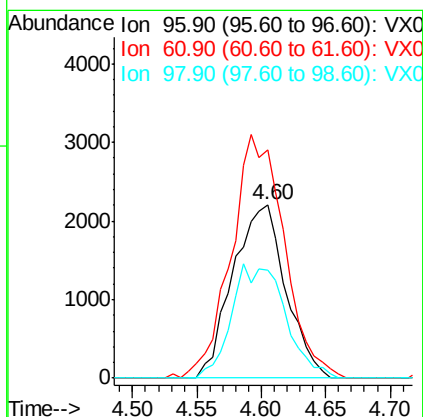
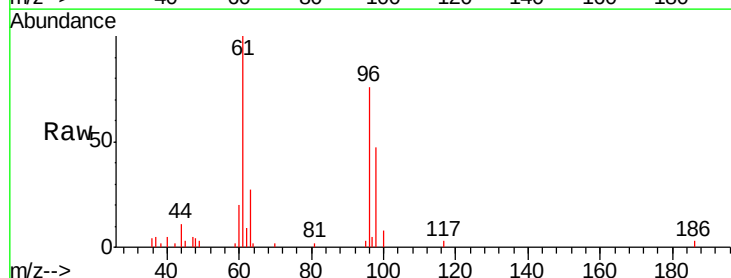
Instrument :
MSVOA_X
ClientSampleId :
OUTFALL001-181016

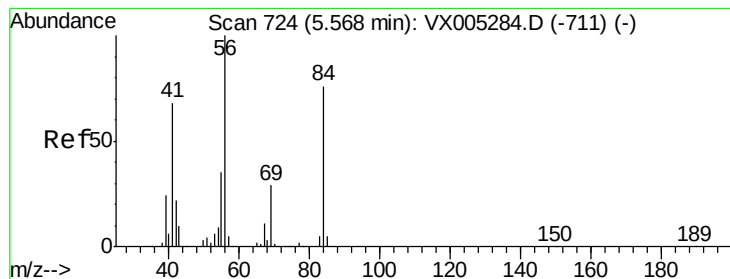
Tgt Ion: 84 Resp: 598
Ion Ratio Lower Upper
84 100
49 106.5 101.2 151.8
51 52.9 29.5 44.3#
86 73.2 52.3 78.5



#27
cis-1,2-Dichloroethene
Concen: 2.09 ug/l
RT: 4.60 min Scan# 566
Delta R.T. 0.01 min
Lab File: VX005390.D
Acq: 17 Oct 2018 14:55

Tgt Ion: 96 Resp: 6288
Ion Ratio Lower Upper
96 100
61 141.0 0.0 282.6
98 66.1 0.0 130.2





#31

Cyclohexane

Concen: 1.13 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005390.D

Acq: 17 Oct 2018 14:55

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-181016

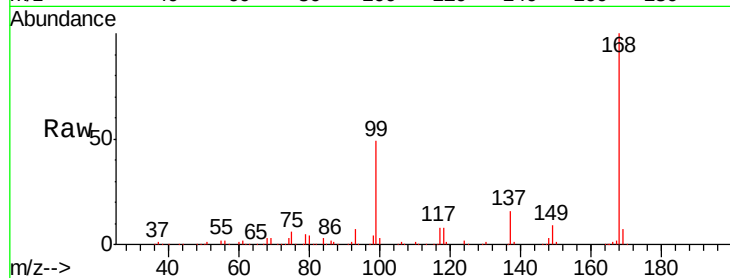
Tgt Ion: 56 Resp: 4915

Ion Ratio Lower Upper

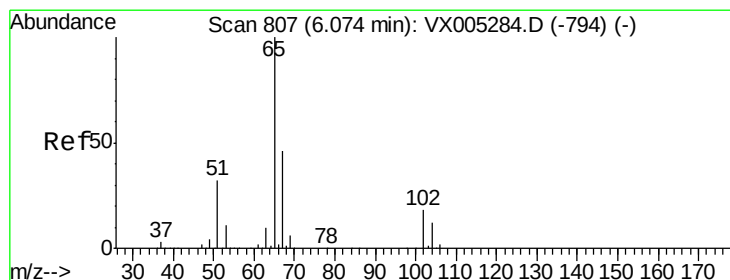
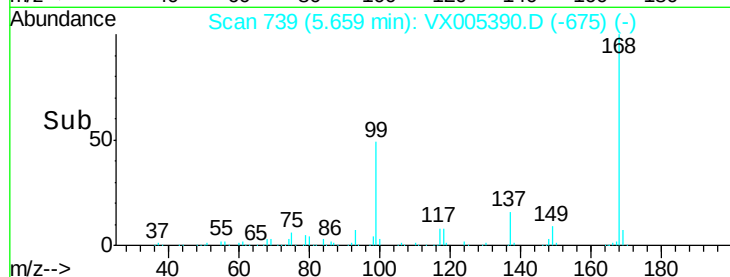
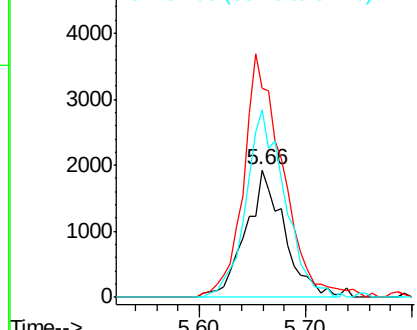
56 100

69 164.0 25.4 38.2#

84 146.9 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: 51.10 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.01 min

Lab File: VX005390.D

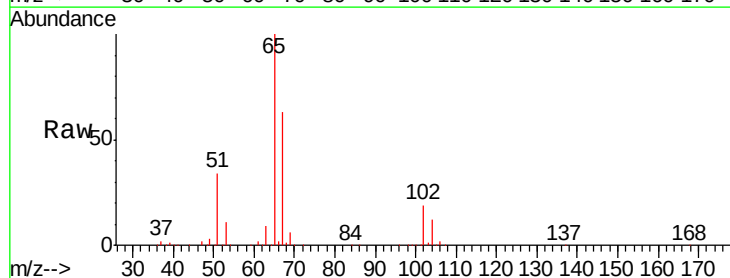
Acq: 17 Oct 2018 14:55

Tgt Ion: 65 Resp: 161445

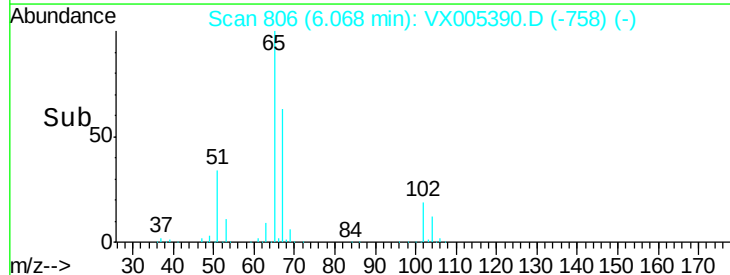
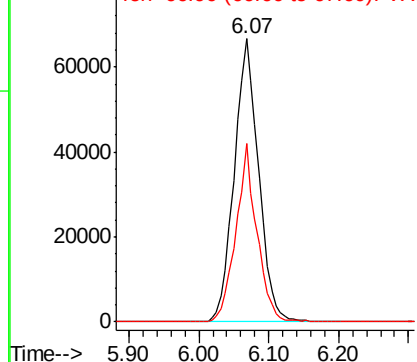
Ion Ratio Lower Upper

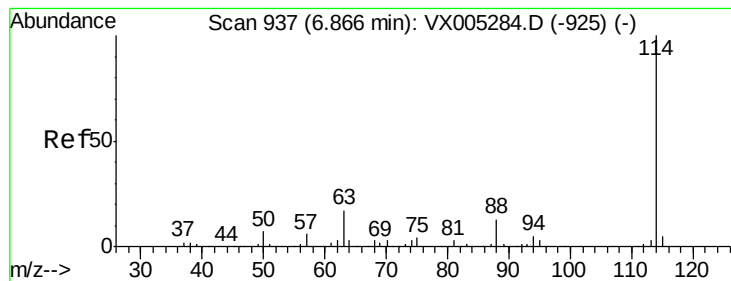
65 100

67 54.5 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# 936

Delta R.T. -0.01 min

Lab File: VX005390.D

Acq: 17 Oct 2018 14:55

Instrument :

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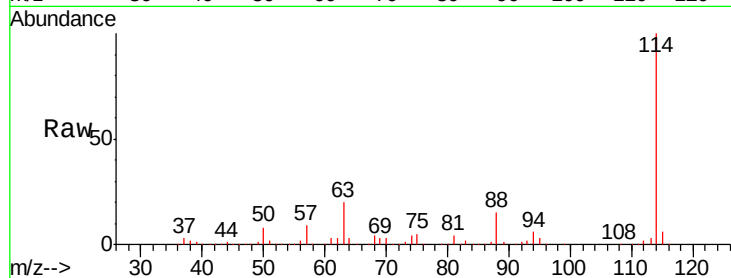
Tgt Ion:114 Resp: 398587

Ion Ratio Lower Upper

114 100

63 20.3 0.0 39.0

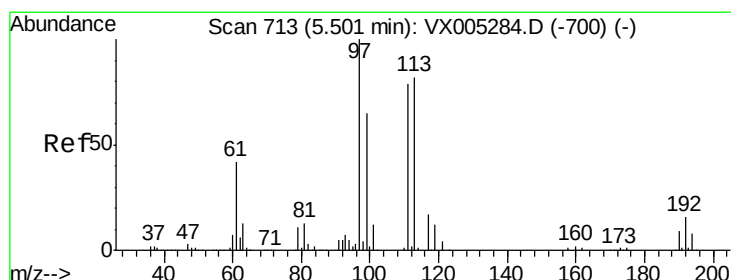
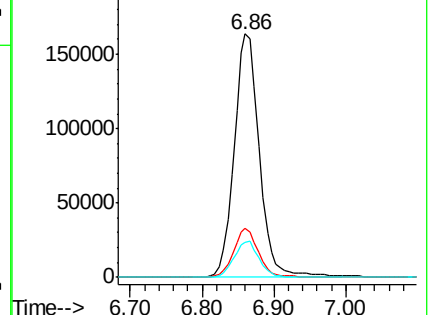
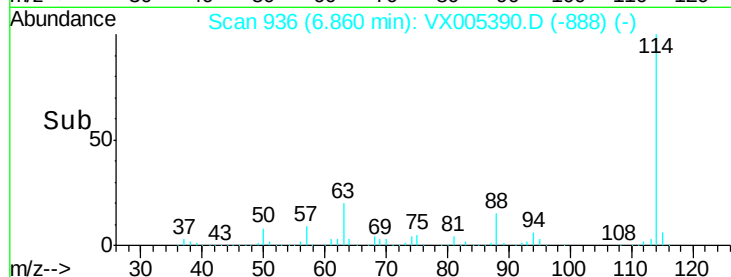
88 14.5 0.0 30.4



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: 47.79 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX005390.D

Acq: 17 Oct 2018 14:55

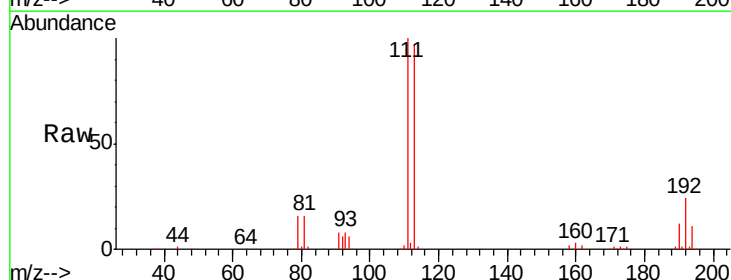
Tgt Ion:113 Resp: 126173

Ion Ratio Lower Upper

113 100

111 104.3 82.4 123.6

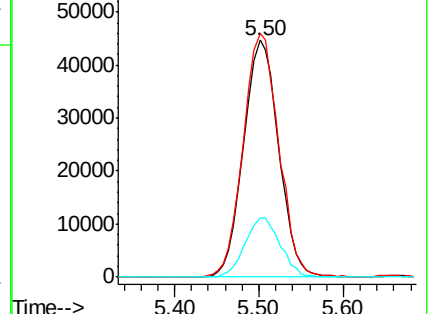
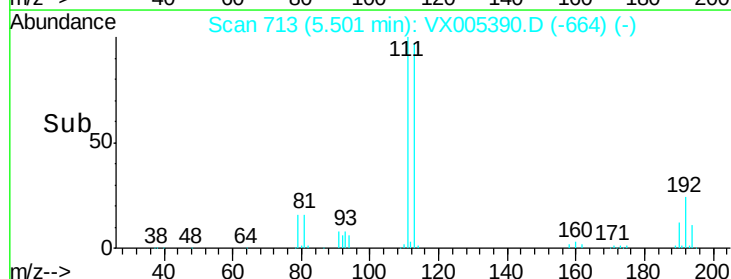
192 25.0 19.4 29.2

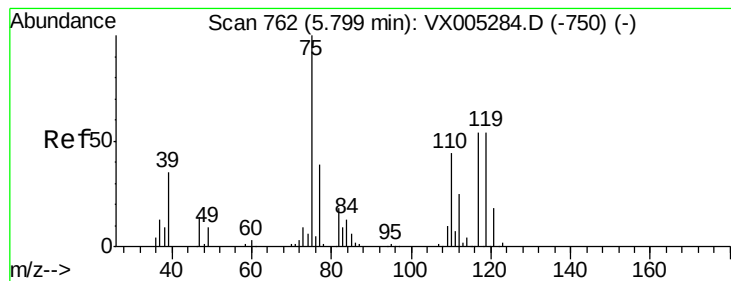


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.69 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005390.D

Acq: 17 Oct 2018 14:55

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-181016

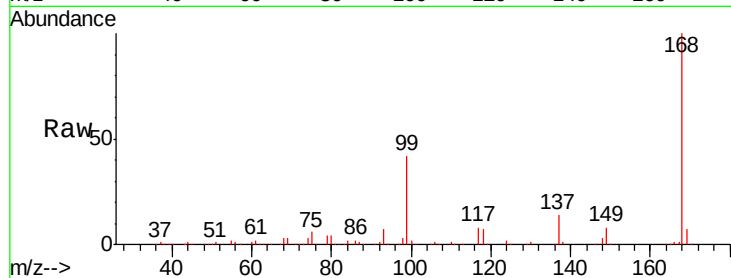
Tgt Ion: 75 Resp: 18121

Ion Ratio Lower Upper

75 100

110 9.3 18.0 54.0#

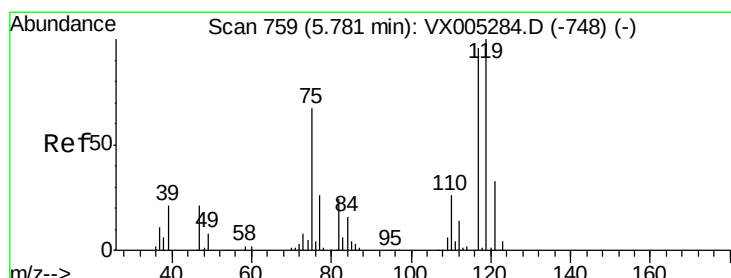
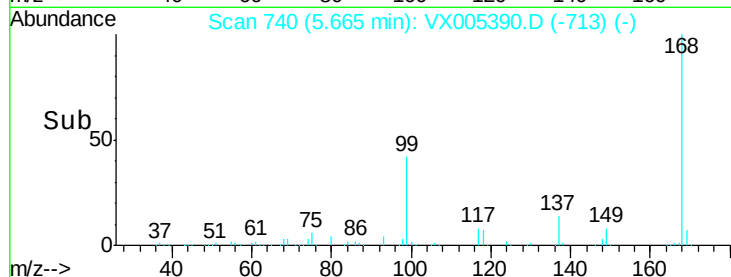
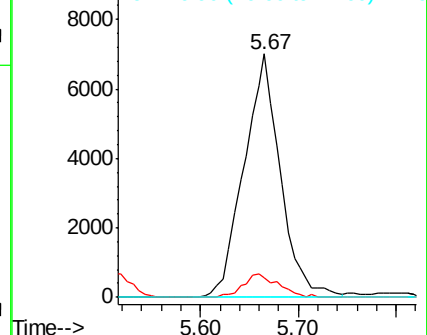
77 0.0 24.6 36.8#



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: 6.40 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005390.D

Acq: 17 Oct 2018 14:55

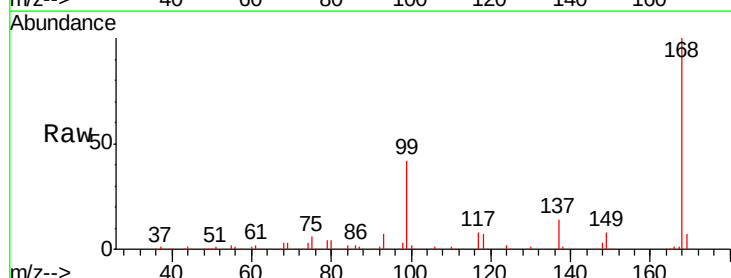
Tgt Ion: 117 Resp: 24841

Ion Ratio Lower Upper

117 100

119 5.2 78.8 118.2#

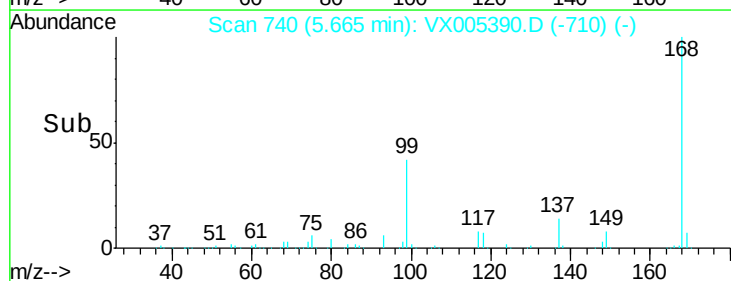
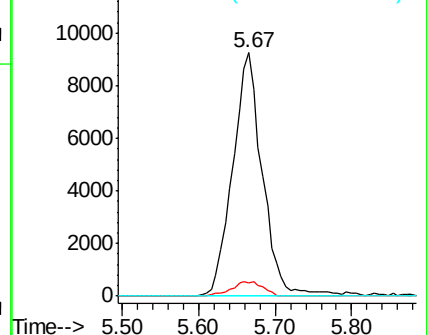
121 0.0 24.9 37.3#

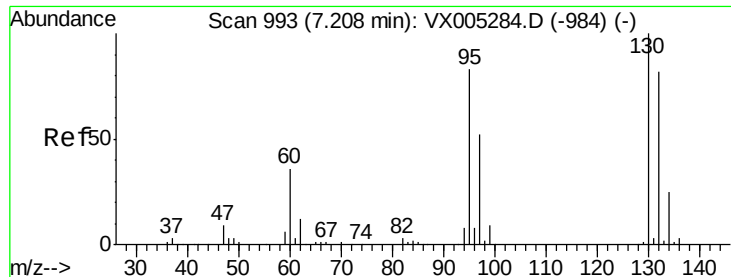


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: Below Cal

RT: 7.21 min Scan# 994

Delta R.T. 0.01 min

Lab File: VX005390.D

Acq: 17 Oct 2018 14:55

Instrument :

MSVOA_X

ClientSampleId :

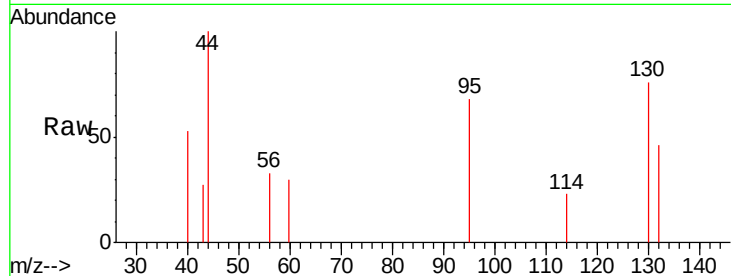
OUTFALL001-181016

Tgt Ion:130 Resp: 253

Ion Ratio Lower Upper

130 100

95 89.5 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

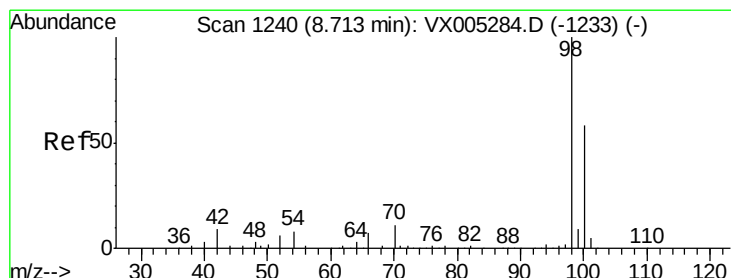
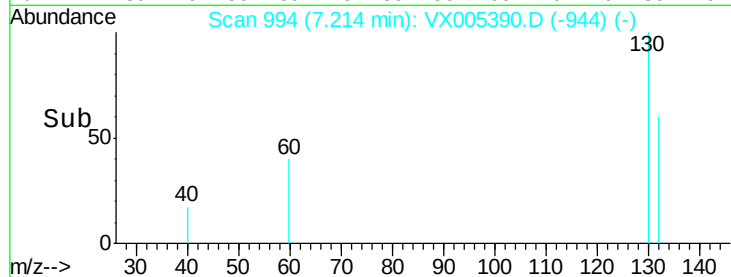
150

100

50

0

Time--> 7.15 7.20 7.25



#50

Toluene-d8

Concen: 51.96 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX005390.D

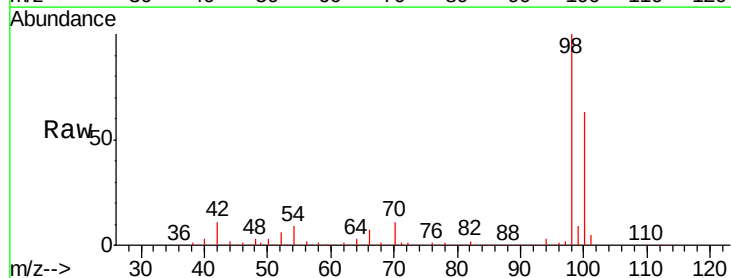
Acq: 17 Oct 2018 14:55

Tgt Ion: 98 Resp: 470920

Ion Ratio Lower Upper

98 100

100 63.0 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

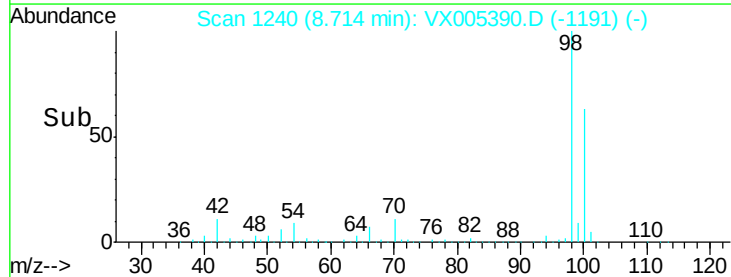
300000

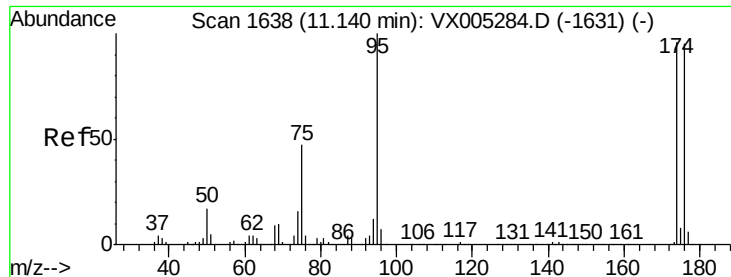
200000

100000

0

Time--> 8.60 8.70 8.80 8.90





#62

4-Bromofluorobenzene

Concen: 45.91 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005390.D

Acq: 17 Oct 2018 14:55

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-181016

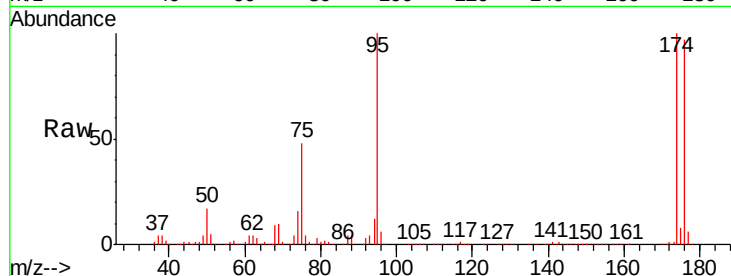
Tgt Ion: 95 Resp: 156322

Ion Ratio Lower Upper

95 100

174 96.3 0.0 185.2

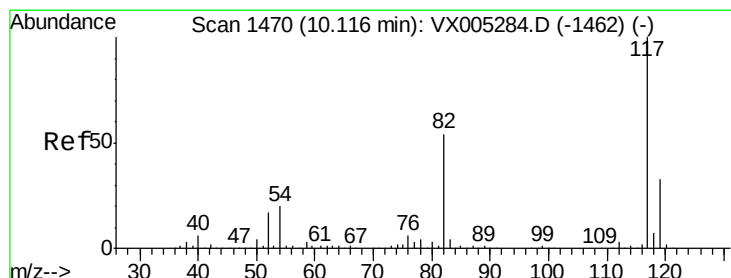
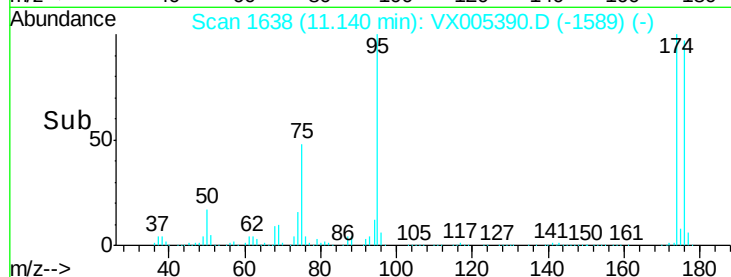
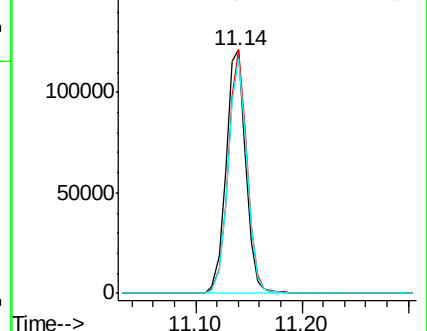
176 92.7 0.0 178.6



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



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX005390.D

Acq: 17 Oct 2018 14:55

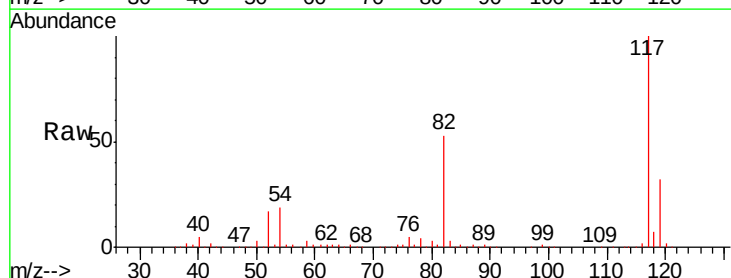
Tgt Ion: 117 Resp: 356034

Ion Ratio Lower Upper

117 100

82 53.2 47.8 71.6

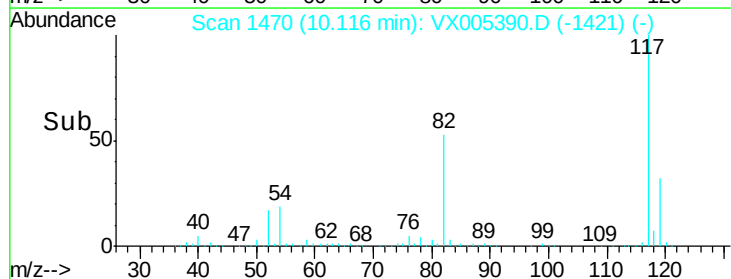
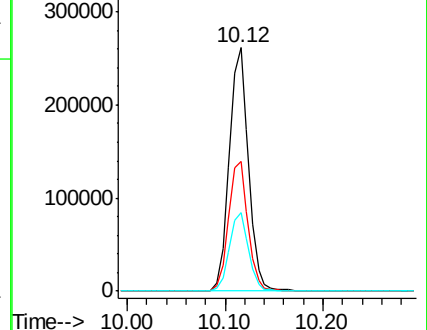
119 32.1 29.3 43.9

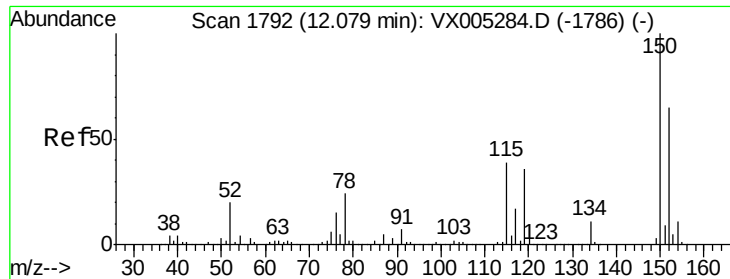


Abundance Ion 116.90 (116.60 to 117.60): V

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# 1792

Delta R.T. 0.00 min

Lab File: VX005390.D

Acq: 17 Oct 2018 14:55

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-181016

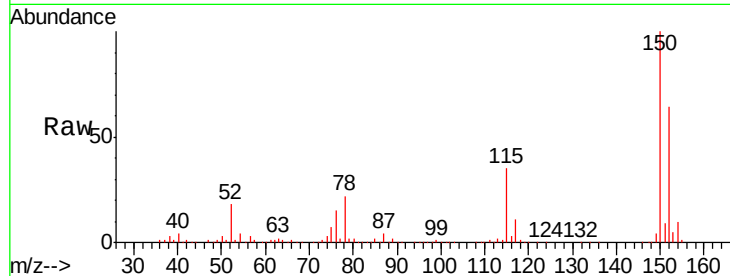
Tgt Ion:152 Resp: 176861

Ion Ratio Lower Upper

152 100

115 53.6 39.0 117.0

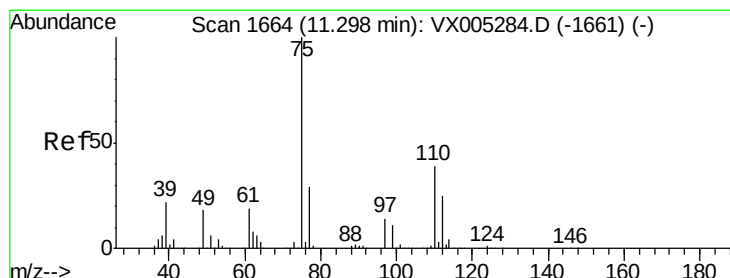
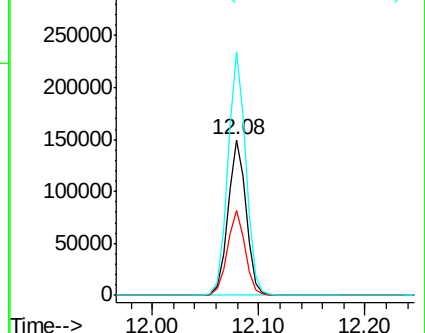
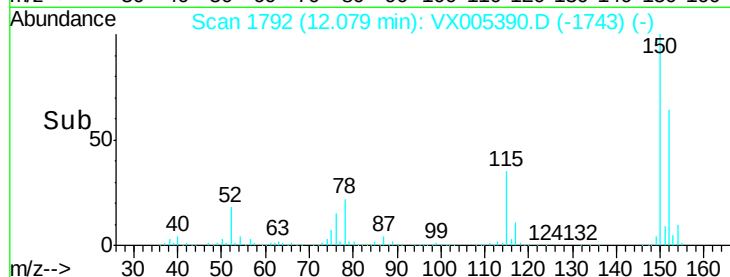
150 156.6 0.0 351.0



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: 22.33 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005390.D

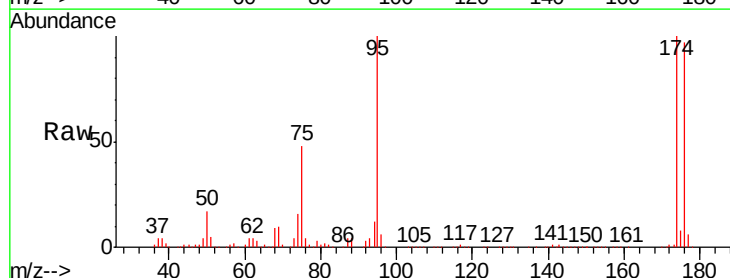
Acq: 17 Oct 2018 14:55

Tgt Ion: 75 Resp: 76601

Ion Ratio Lower Upper

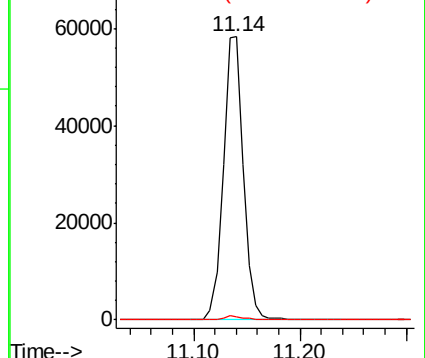
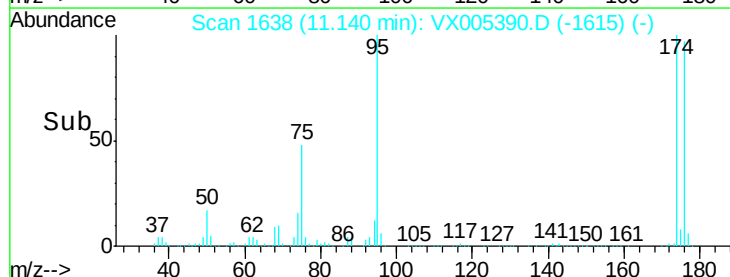
75 100

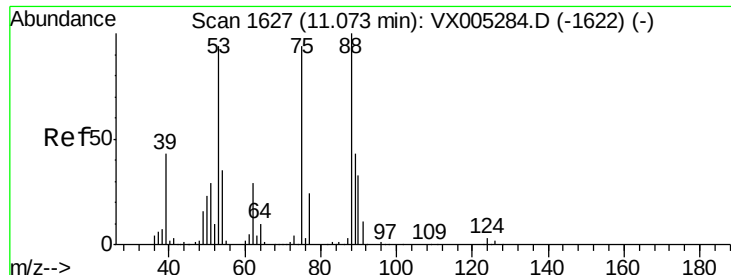
77 1.5 20.2 60.6#



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: 67.85 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005390.D

Acq: 17 Oct 2018 14:55

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-181016

Tgt Ion: 75 Resp: 76601

Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

89 0.0 37.2 55.8#

