

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080818\
 Data File : VX003930.D
 Acq On : 08 Aug 2018 18:11
 Operator : JC/MD
 Sample : J4385-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OUTFALL001-180807

Quant Time: Aug 09 03:15:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 07:45:48 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	280010	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	437226	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	418049	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	202574	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	199538	53.76	ug/l	0.00
Spiked Amount			Recovery	=	107.52%	
35) Dibromofluoromethane	5.51	113	171094	51.65	ug/l	0.00
Spiked Amount			Recovery	=	103.30%	
50) Toluene-d8	8.72	98	622963	48.36	ug/l	0.00
Spiked Amount			Recovery	=	96.72%	
62) 4-Bromofluorobenzene	11.14	95	212639	51.02	ug/l	0.00
Spiked Amount			Recovery	=	102.04%	

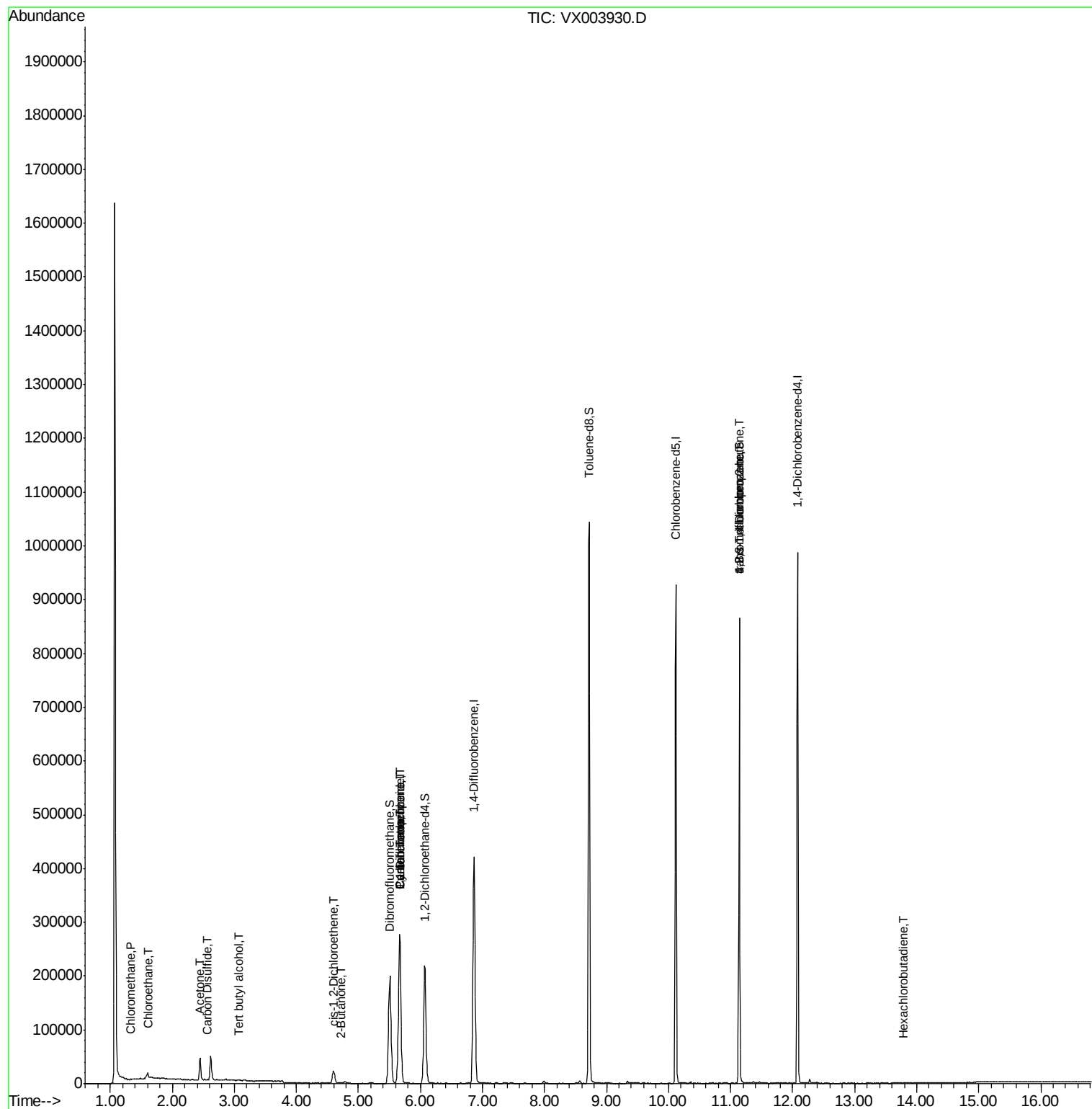
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1315	0.34	ug/l	97
5) Bromomethane	1.65	94	717	Below Cal		89
6) Chloroethane	1.60	64	15671	6.36	ug/l #	55
11) Tert butyl alcohol	3.07	59	1483	1.66	ug/l #	94
13) Acrolein	2.30	56	67	Below Cal	#	1
16) Acetone	2.45	43	43566	19.73	ug/l	99
17) Carbon Disulfide	2.57	76	1071	0.56	ug/l #	88
20) Methylene Chloride	2.86	84	908	Below Cal		92
25) 2-Butanone	4.72	43	1089	0.33	ug/l #	82
27) cis-1,2-Dichloroethene	4.60	96	15086	4.07	ug/l	95
31) Cyclohexane	5.67	56	4881	0.91	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	18759	3.83	ug/l #	49
38) Carbon Tetrachloride	5.67	117	24282	5.21	ug/l #	14
76) 1,2,3-Trichloropropane	11.14	75	103123	23.05	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	103123	62.13	ug/l #	9
88) 1,4-Dichlorobenzene	12.10	146	451	Below Cal	#	1
94) Hexachlorobutadiene	13.78	225	219	0.52	ug/l	86

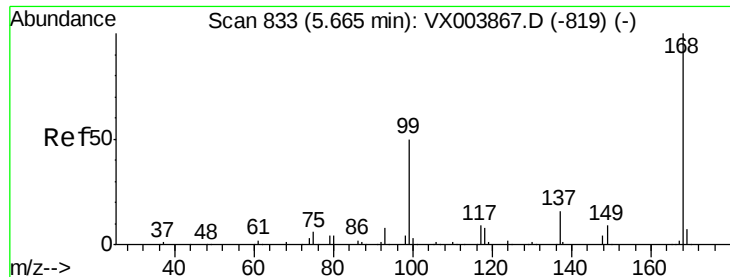
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Aug 07 07:45:48 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003930.D

Acq: 08 Aug 2018 18:11

Instrument :

MSVOA_X

ClientSampleId :

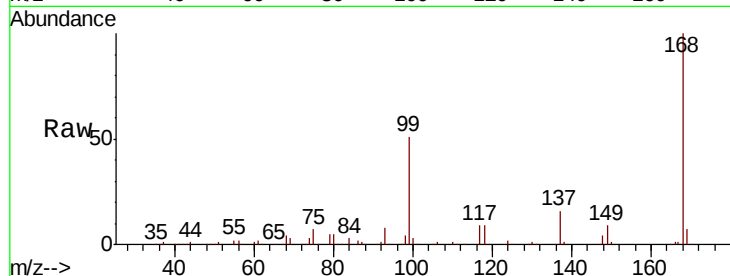
OUTFALL001-180807

Tot Ion:168 Resp: 280010

Ion Ratio Lower Upper

168 100

99 50.8 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

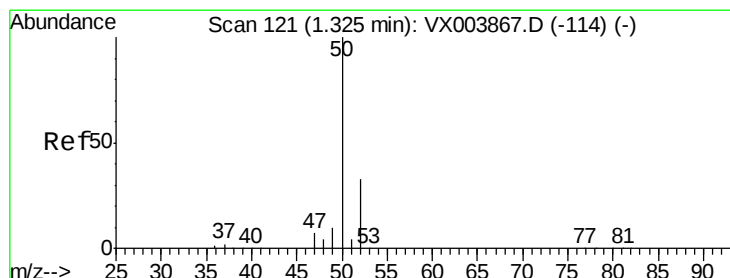
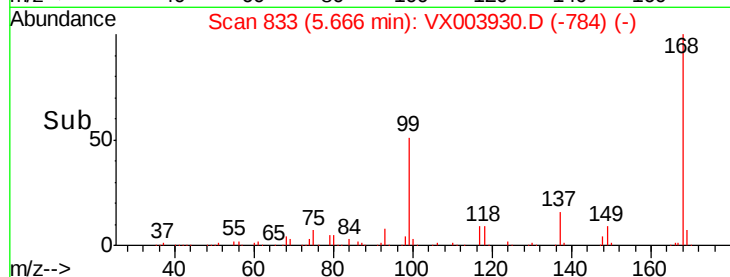
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.34 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003930.D

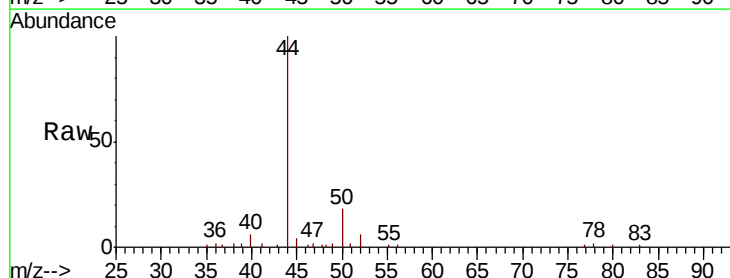
Acq: 08 Aug 2018 18:11

Tgt Ion: 50 Resp: 1315

Ion Ratio Lower Upper

50 100

52 31.3 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

1200

1000

800

600

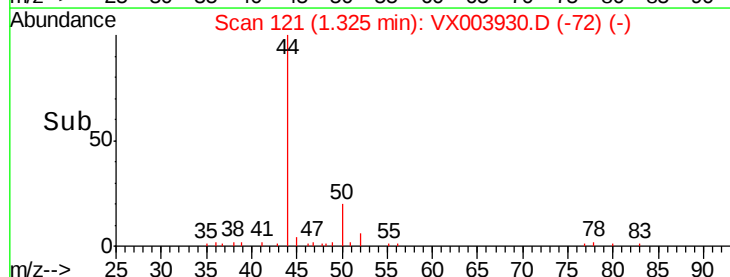
400

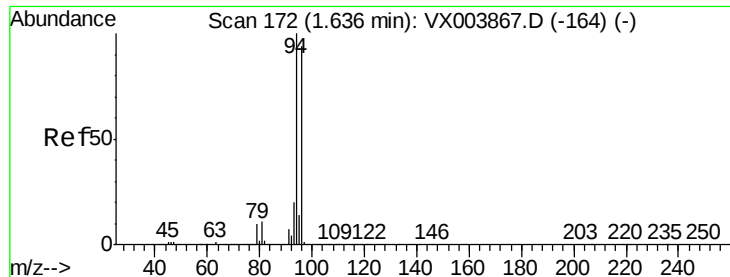
200

0

Time-->

1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003930.D

Acq: 08 Aug 2018 18:11

Instrument :

MSVOA_X

ClientSampleId :

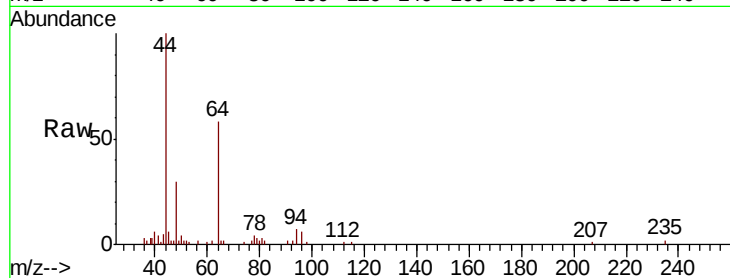
OUTFALL001-180807

Tot Ion: 94 Resp: 717

Ion Ratio Lower Upper

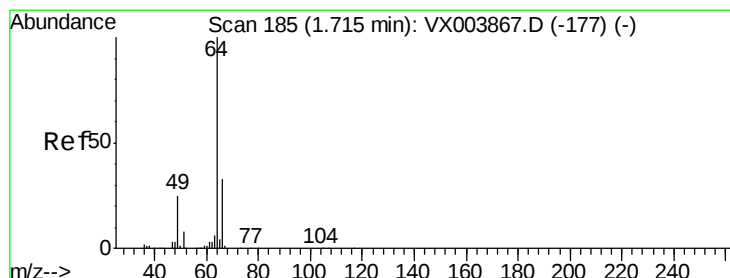
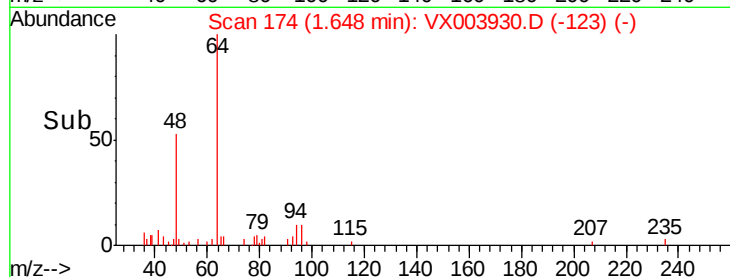
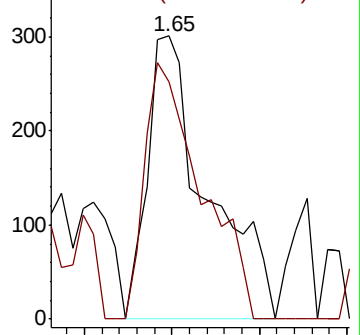
94 100

96 83.7 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 6.36 ug/l

RT: 1.60 min Scan# 166

Delta R.T. -0.12 min

Lab File: VX003930.D

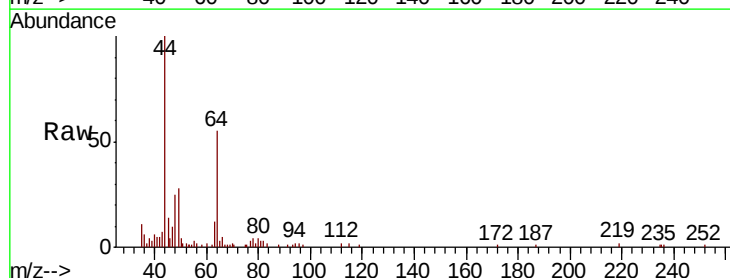
Acq: 08 Aug 2018 18:11

Tgt Ion: 64 Resp: 15671

Ion Ratio Lower Upper

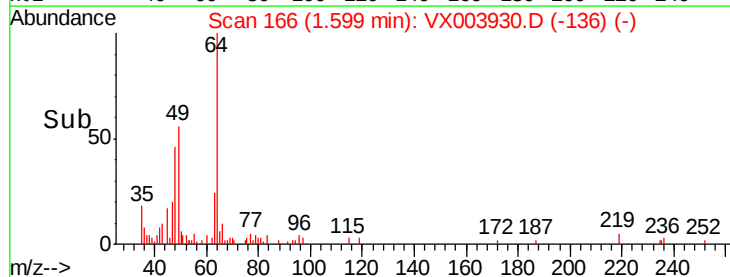
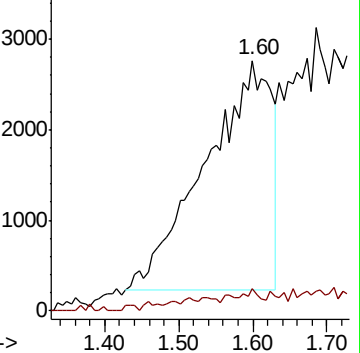
64 100

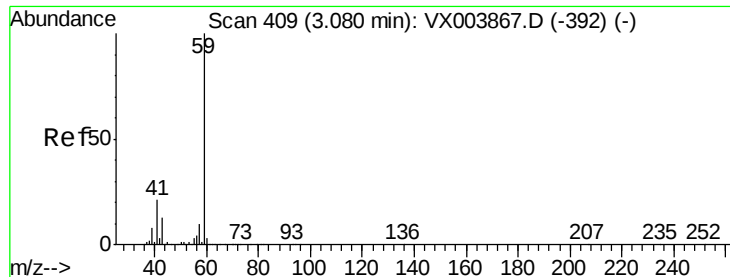
66 7.6 26.5 39.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

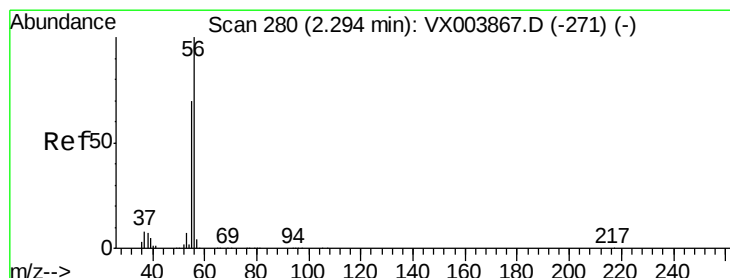
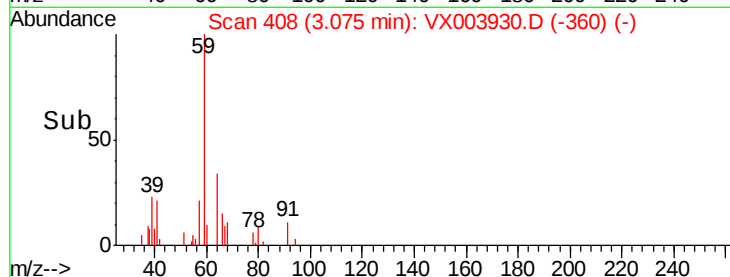
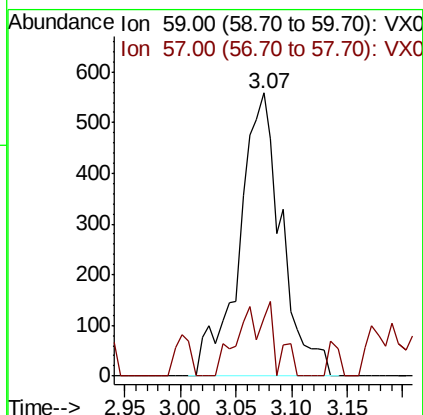
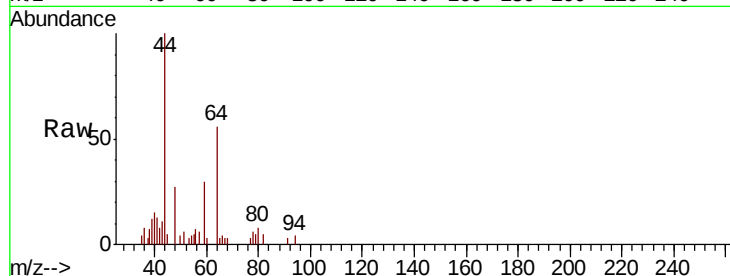




#11
Tert butyl alcohol
Concen: 1.66 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX003930.D
Acq: 08 Aug 2018 18:11

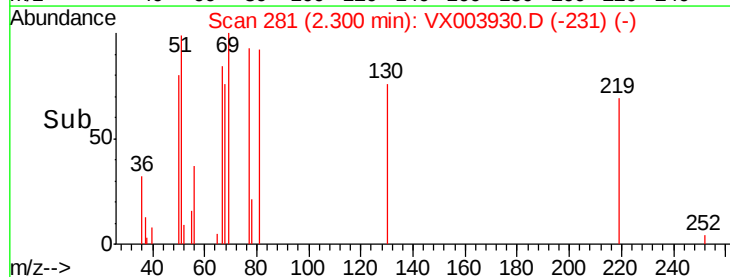
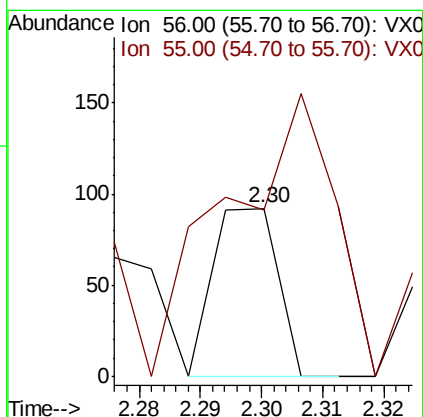
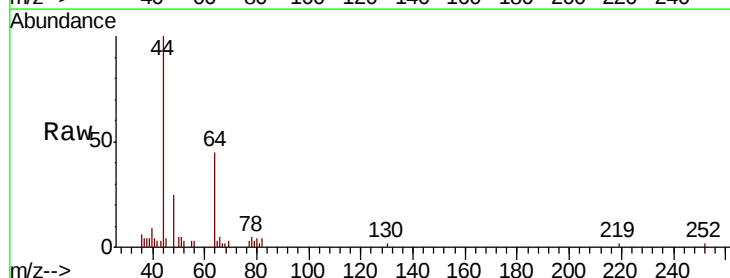
Instrument :
MSVOA_X
ClientSampleId :
OUTFALL001-180807

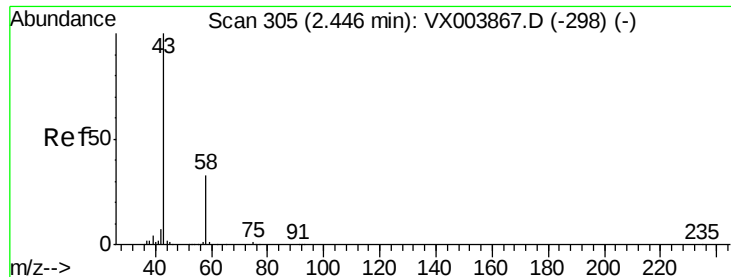
Tot Ion: 59 Resp: 1483
Ion Ratio Lower Upper
59 100
57 12.2 8.1 12.1#



#13
Acrolein
Concen: Below Cal
RT: 2.30 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX003930.D
Acq: 08 Aug 2018 18:11

Tgt Ion: 56 Resp: 67
Ion Ratio Lower Upper
56 100
55 323.9 56.1 84.1#





#16

Acetone

Concen: 19.73 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003930.D

Acq: 08 Aug 2018 18:11

Instrument :

MSVOA_X

ClientSampleId :

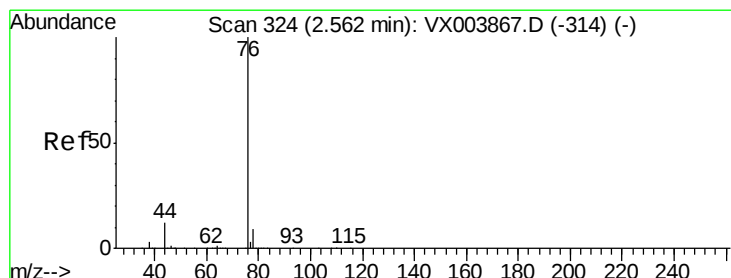
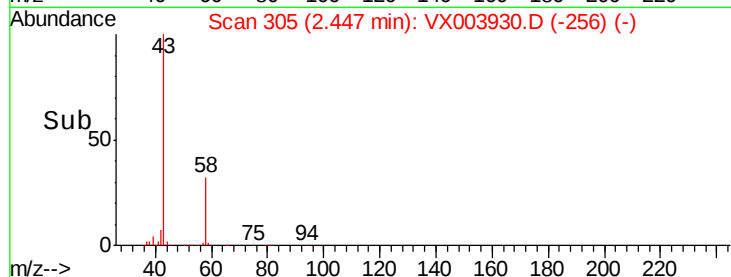
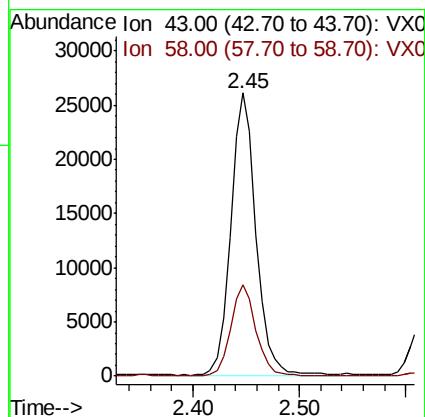
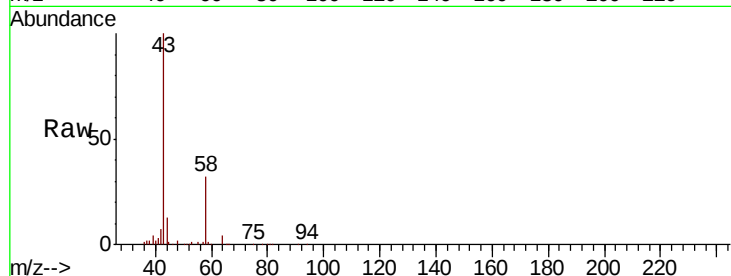
OUTFALL001-180807

Tot Ion: 43 Resp: 43566

Ion Ratio Lower Upper

43 100

58 32.5 26.4 39.6



#17

Carbon Disulfide

Concen: 0.56 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.01 min

Lab File: VX003930.D

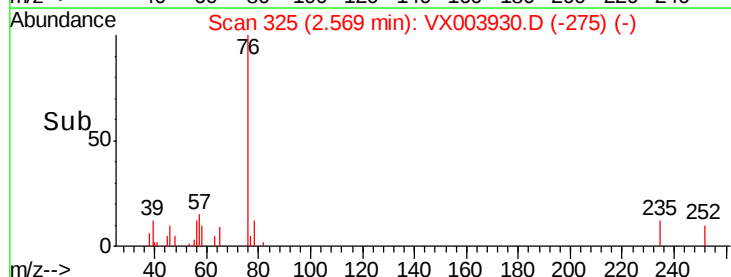
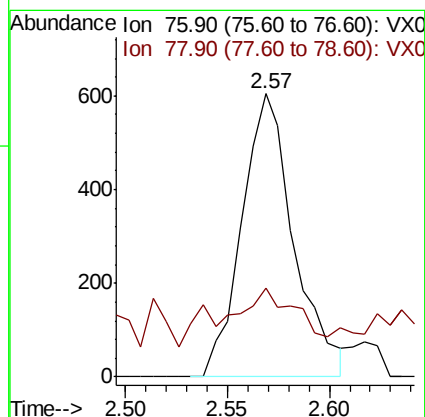
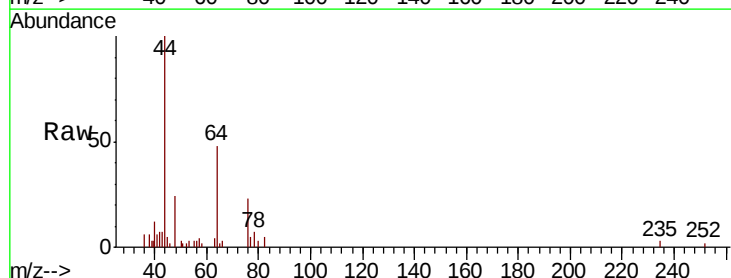
Acq: 08 Aug 2018 18:11

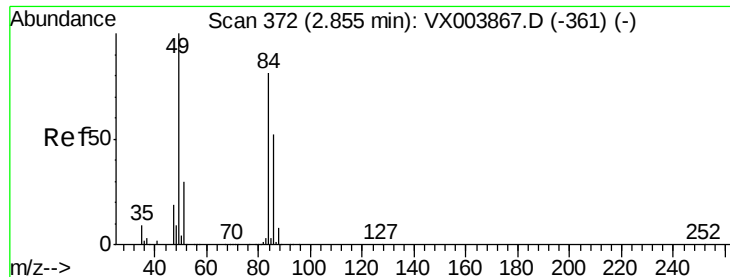
Tgt Ion: 76 Resp: 1071

Ion Ratio Lower Upper

76 100

78 13.9 7.5 11.3#





#20

Methvlene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 372

Delta R.T. 0.00 min

Lab File: VX003930.D

Acq: 08 Aug 2018 18:11

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-180807

Tot Ion: 84 Resp: 908

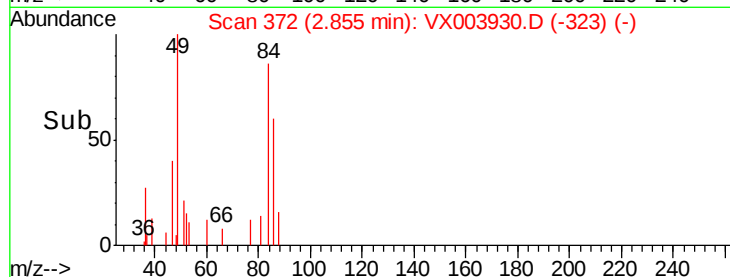
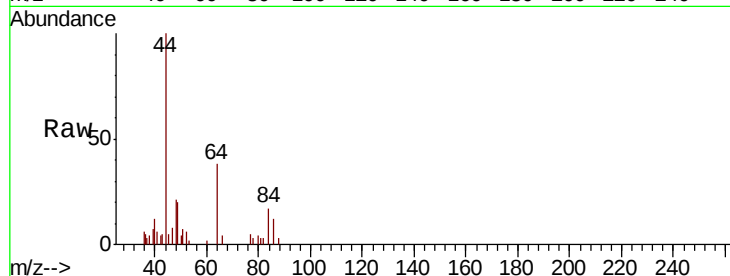
Ion Ratio Lower Upper

84 100

49 115.7 98.9 148.3

51 43.1 29.9 44.9

86 69.7 51.0 76.6



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

Time-->

2.86

2.86

2.86

2.86

2.86

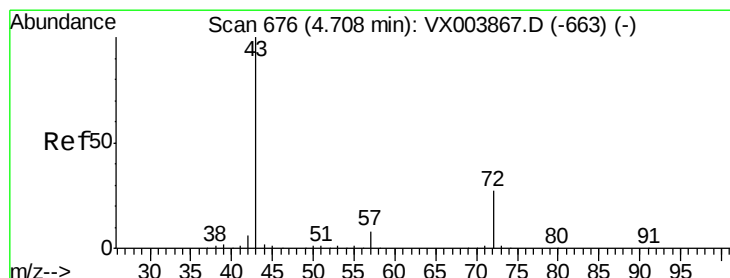
2.86

2.86

2.86

2.86

2.86



#25

2-Butanone

Concen: 0.33 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX003930.D

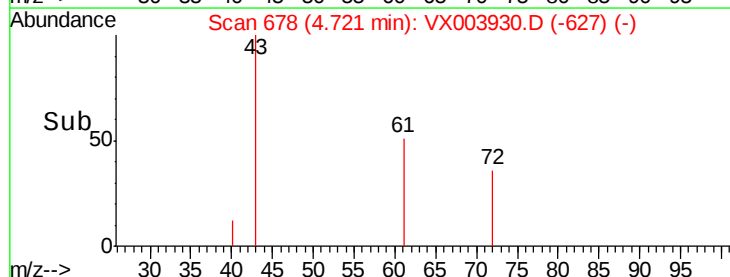
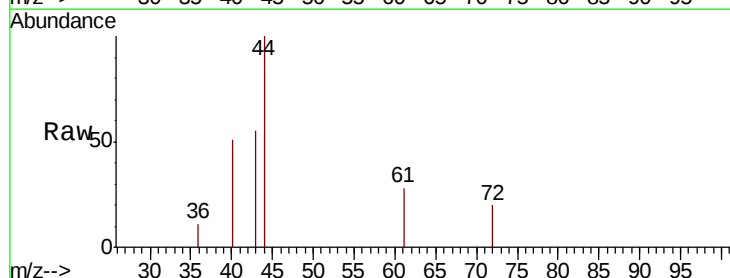
Acq: 08 Aug 2018 18:11

Tgt Ion: 43 Resp: 1089

Ion Ratio Lower Upper

43 100

72 36.0 21.4 32.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Time-->

4.72

4.72

4.72

4.72

4.72

4.72

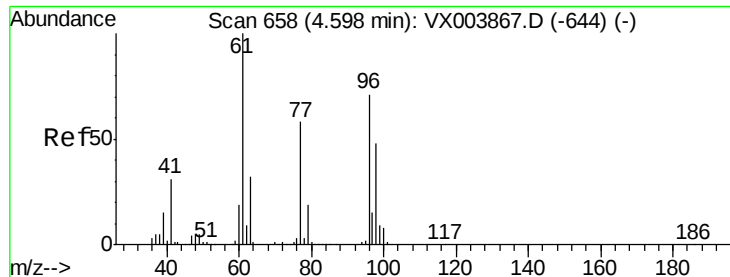
4.72

4.72

4.72

4.72

4.72



#27

cis-1,2-Dichloroethene

Concen: 4.07 ug/l

RT: 4.60 min Scan# 658

Delta R.T. 0.00 min

Lab File: VX003930.D

Acq: 08 Aug 2018 18:11

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-180807

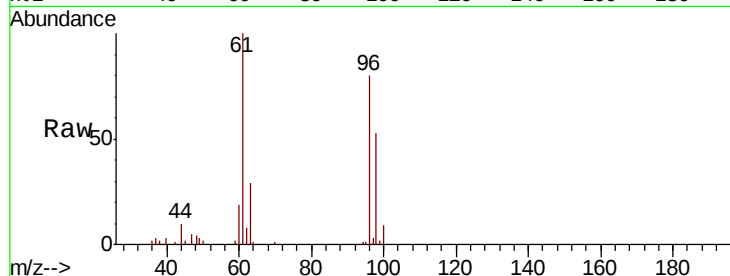
Tot Ion: 96 Resp: 15086

Ion Ratio Lower Upper

96 100

61 139.1 0.0 293.0

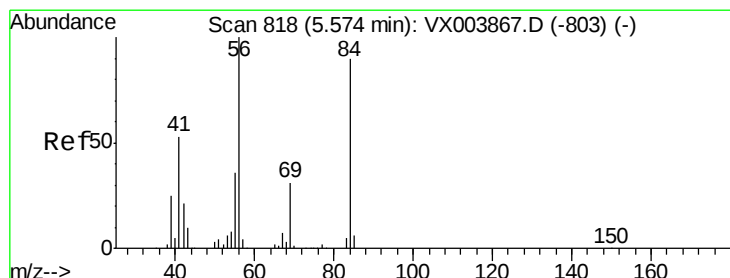
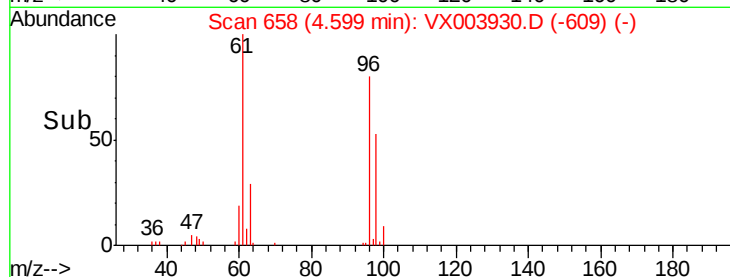
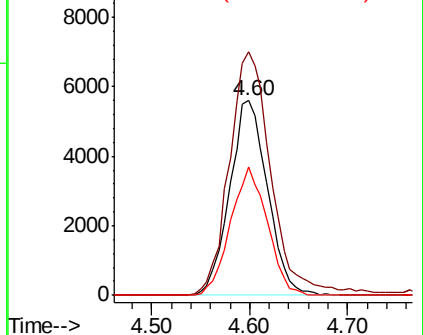
98 63.7 0.0 131.8



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#31

Cyclohexane

Concen: 0.91 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX003930.D

Acq: 08 Aug 2018 18:11

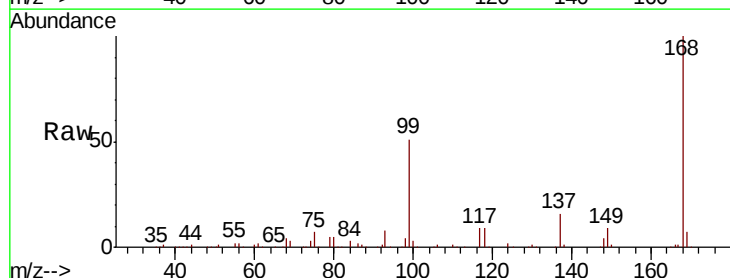
Tgt Ion: 56 Resp: 4881

Ion Ratio Lower Upper

56 100

69 208.5 24.9 37.3#

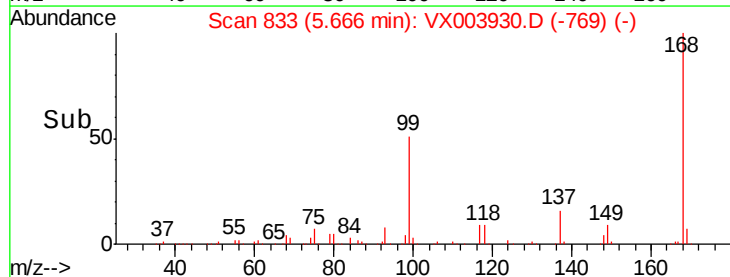
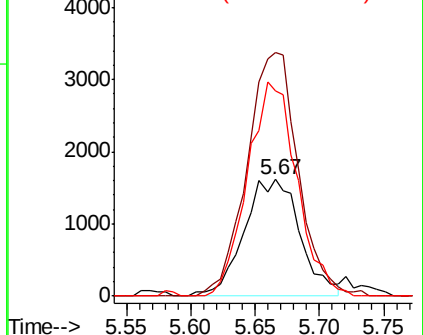
84 175.7 71.7 107.5#

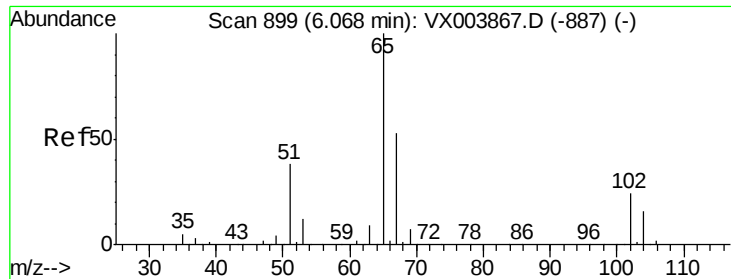


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 53.76 ug/l

RT: 6.07 min Scan# 899

Delta R.T. 0.00 min

Lab File: VX003930.D

Acq: 08 Aug 2018 18:11

Instrument :

MSVOA_X

ClientSampleId :

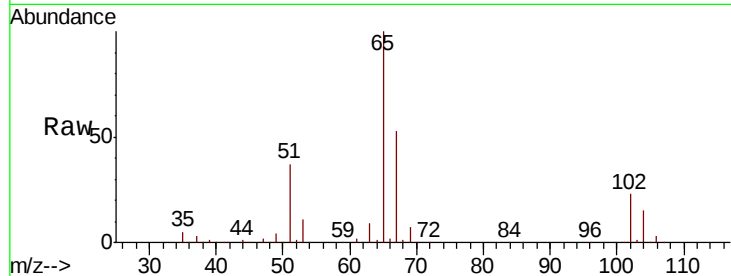
OUTFALL001-180807

Tot Ion: 65 Resp: 199538

Ion Ratio Lower Upper

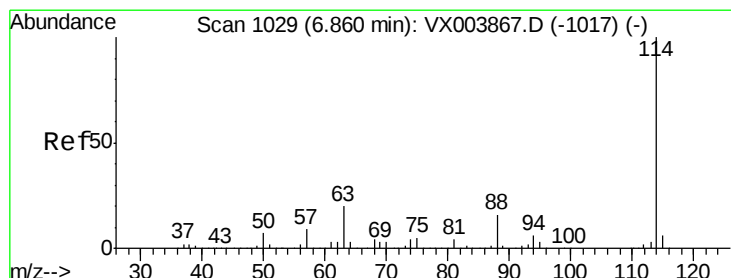
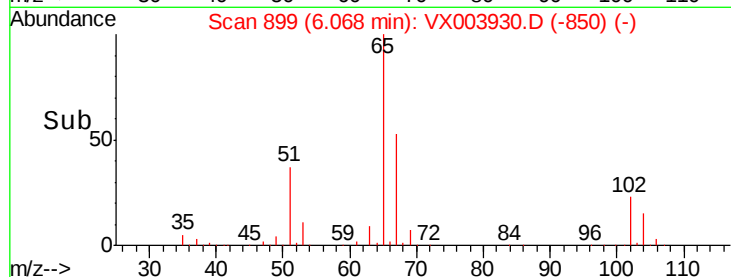
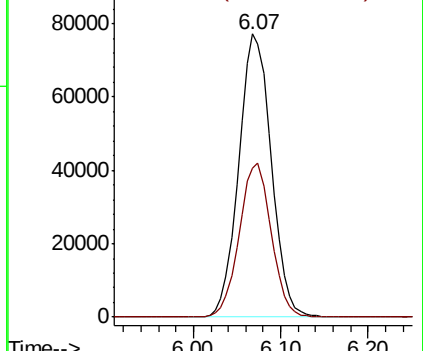
65 100

67 53.5 0.0 105.8



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: 6.87 min Scan# 1030

Delta R.T. 0.01 min

Lab File: VX003930.D

Acq: 08 Aug 2018 18:11

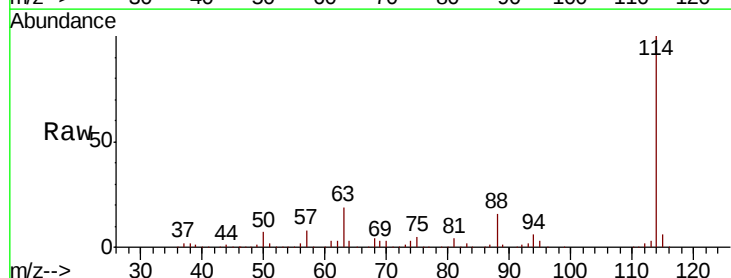
Tgt Ion: 114 Resp: 437226

Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.0

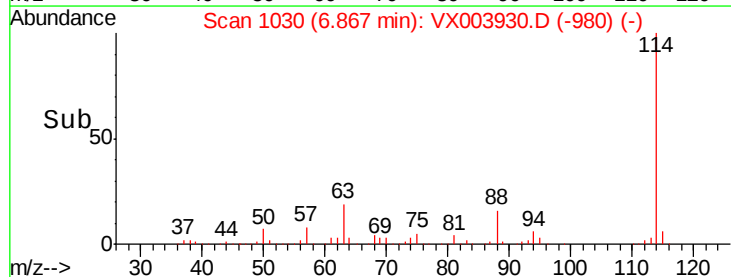
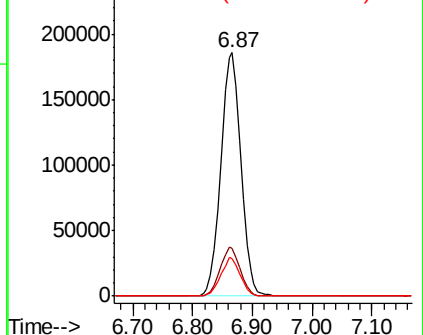
88 15.6 0.0 32.0

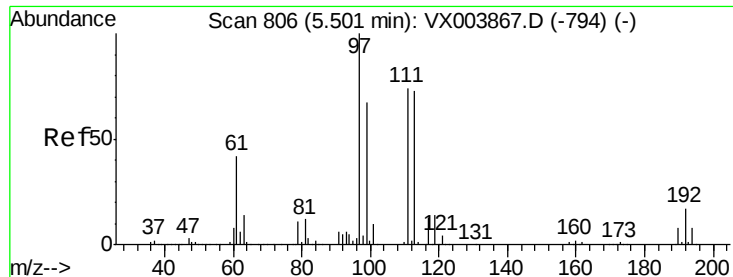


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 51.65 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX003930.D

Acq: 08 Aug 2018 18:11

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-180807

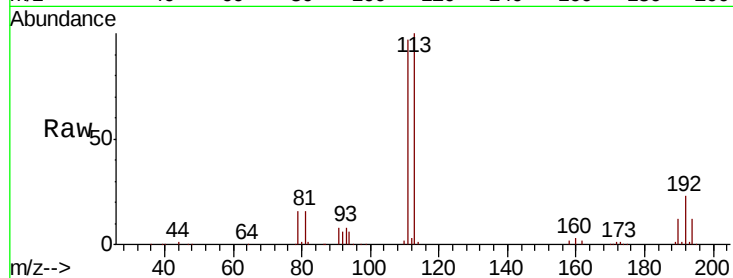
Tot Ion:113 Resp: 171094

Ion Ratio Lower Upper

113 100

111 101.9 82.0 123.0

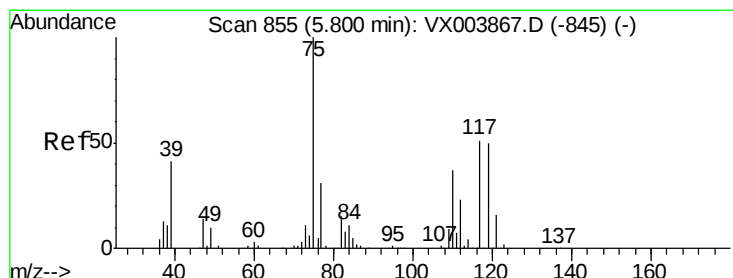
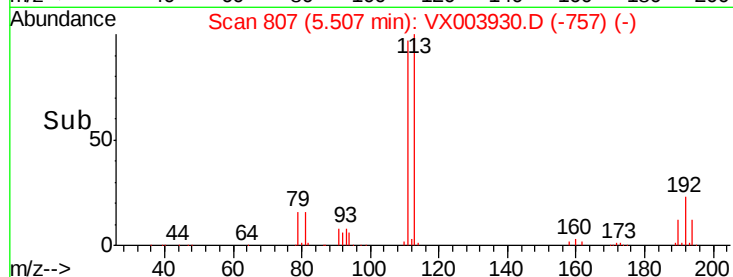
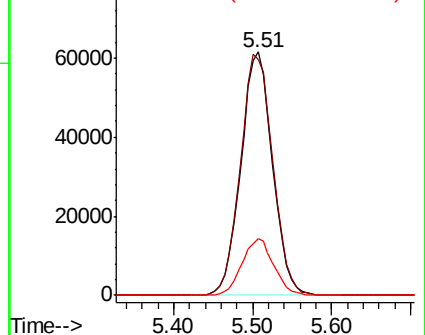
192 23.3 19.0 28.4



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 3.83 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003930.D

Acq: 08 Aug 2018 18:11

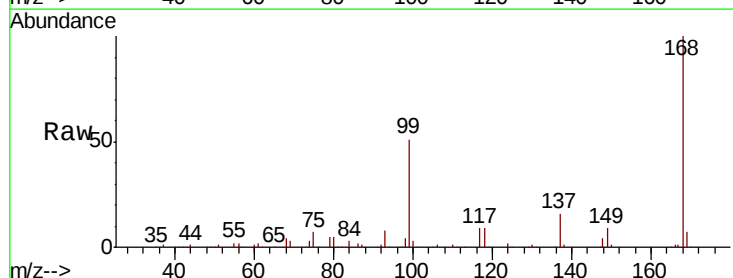
Tgt Ion: 75 Resp: 18759

Ion Ratio Lower Upper

75 100

110 9.1 18.2 54.6#

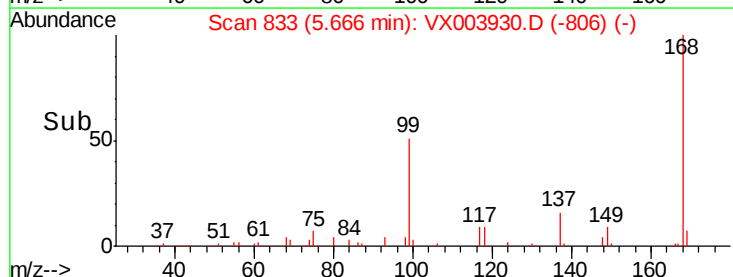
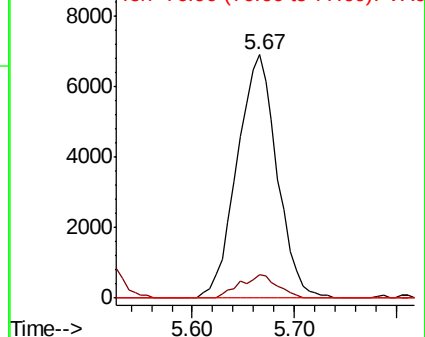
77 0.0 25.0 37.4#

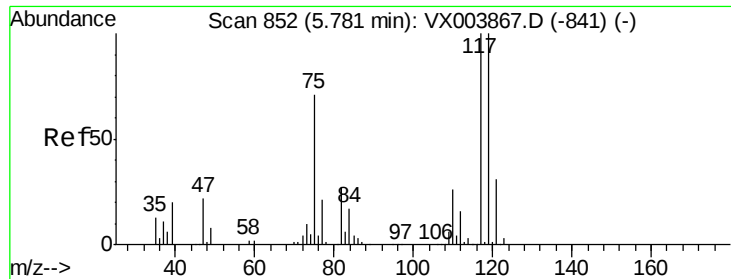


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

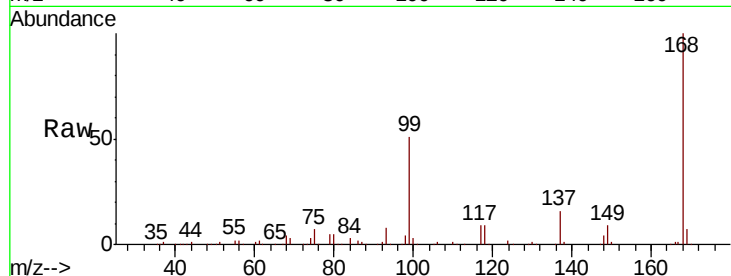




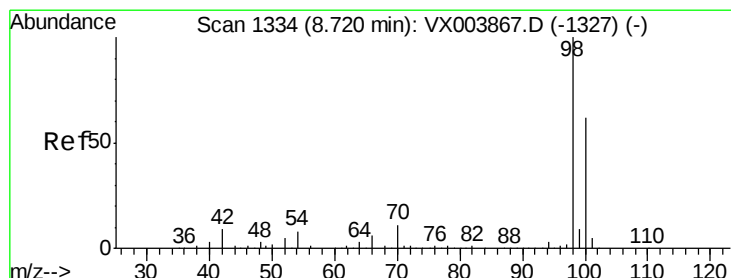
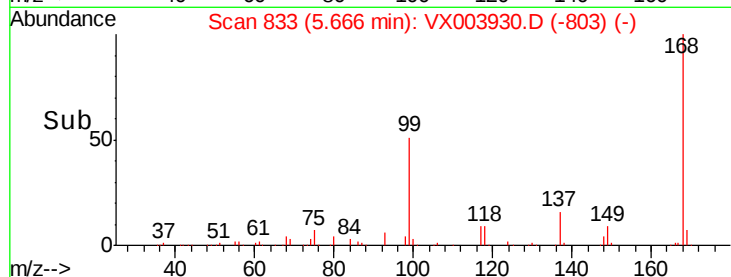
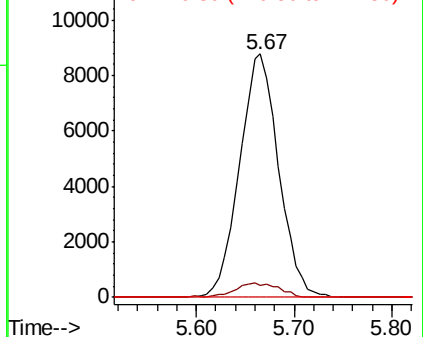
#38
Carbon Tetrachloride
Concen: 5.21 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX003930.D
Acq: 08 Aug 2018 18:11

Instrument :
MSVOA_X
ClientSampleId :
OUTFALL001-180807

Tot Ion:117 Resp: 24282
Ion Ratio Lower Upper
117 100
119 5.1 79.5 119.3#
121 0.0 25.0 37.4#

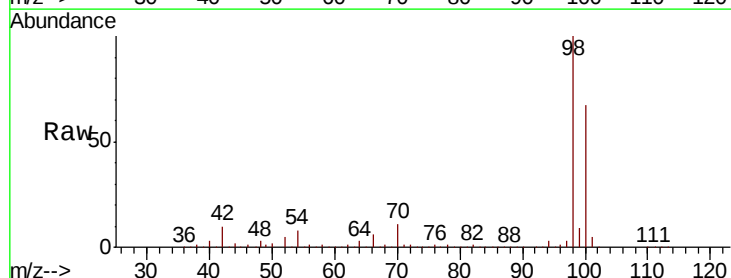


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

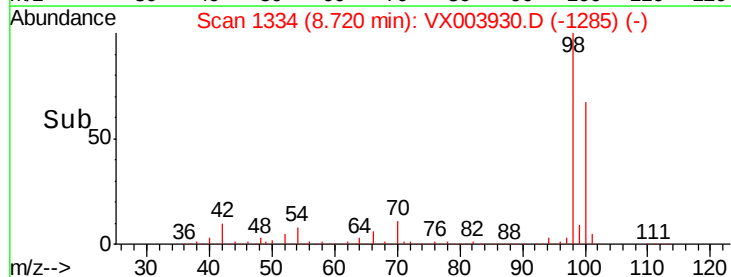
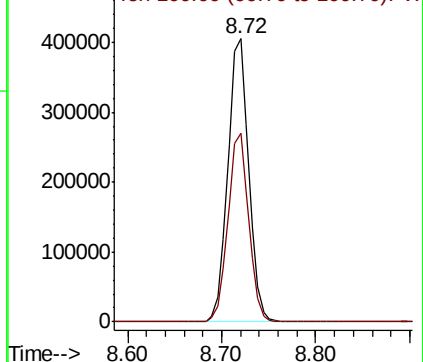


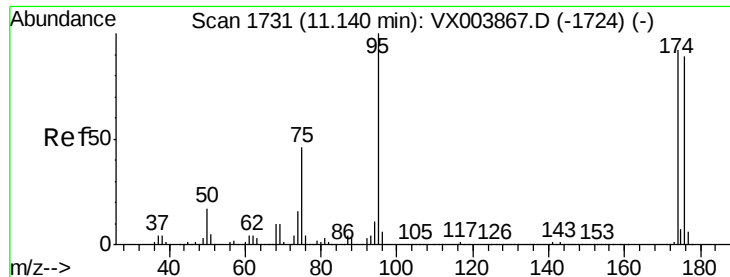
#50
Toluene-d8
Concen: 48.36 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003930.D
Acq: 08 Aug 2018 18:11

Tgt Ion: 98 Resp: 622963
Ion Ratio Lower Upper
98 100
100 66.0 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V

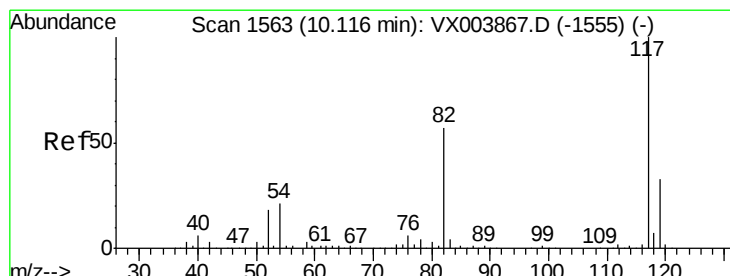
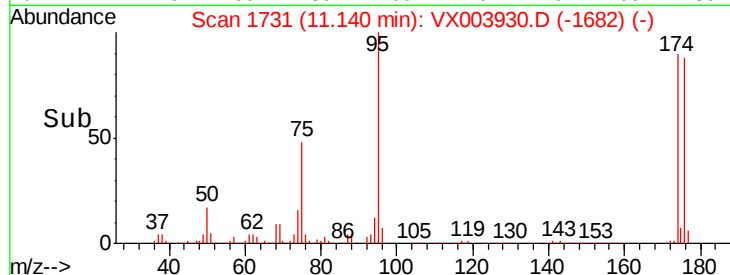
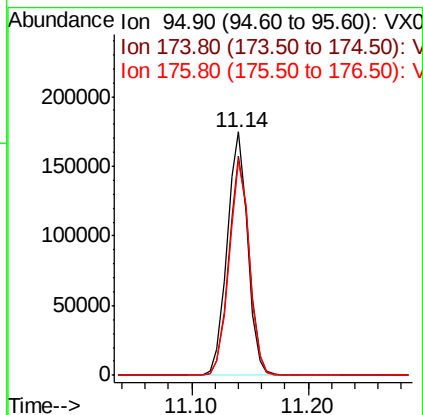
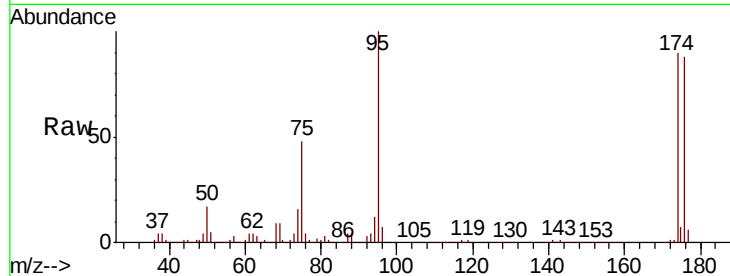




#62
4-Bromofluorobenzene
Concen: 51.02 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003930.D
Acq: 08 Aug 2018 18:11

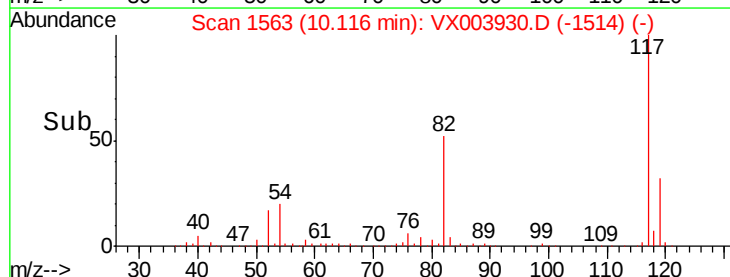
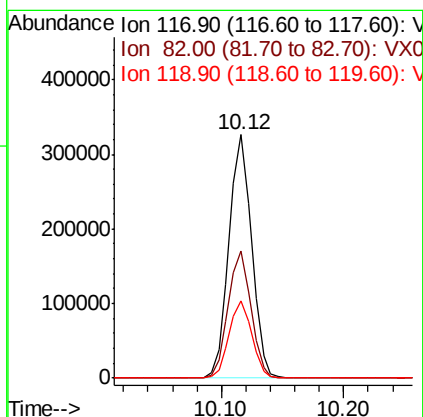
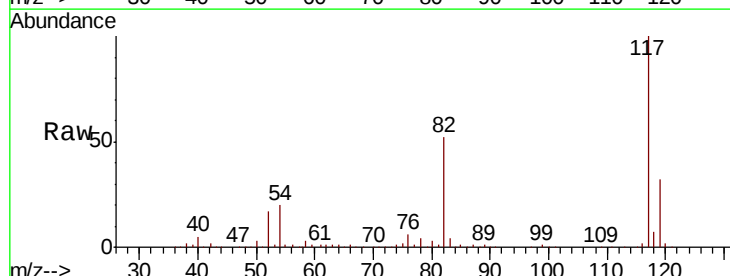
Instrument :
MSVOA_X
ClientSampleId :
OUTFALL001-180807

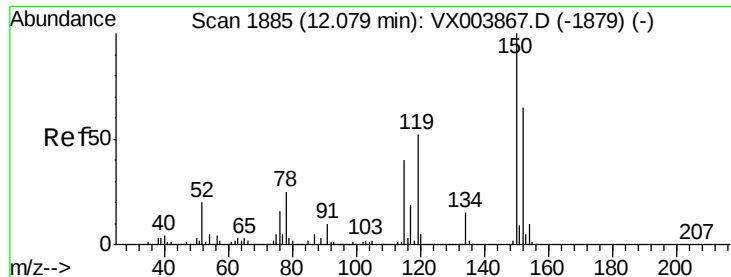
Tot Ion: 95 Resp: 212639
Ion Ratio Lower Upper
95 100
174 90.0 0.0 182.8
176 87.7 0.0 179.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003930.D
Acq: 08 Aug 2018 18:11

Tgt Ion: 117 Resp: 418049
Ion Ratio Lower Upper
117 100
82 52.5 45.4 68.0
119 31.9 26.6 40.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003930.D

Acq: 08 Aug 2018 18:11

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-180807

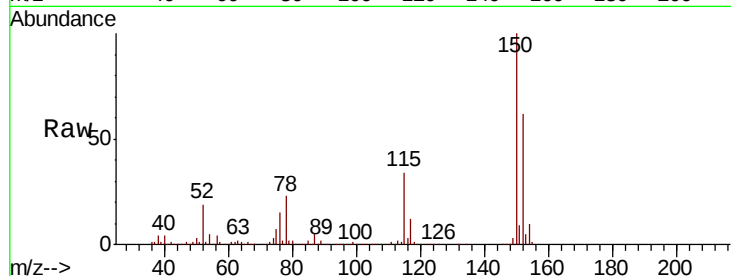
Tot Ion:152 Resp: 202574

Ion Ratio Lower Upper

152 100

115 54.4 39.1 117.3

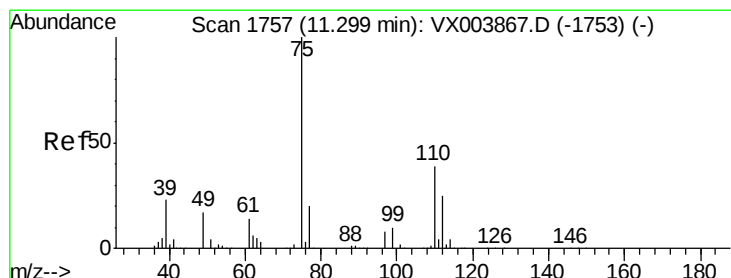
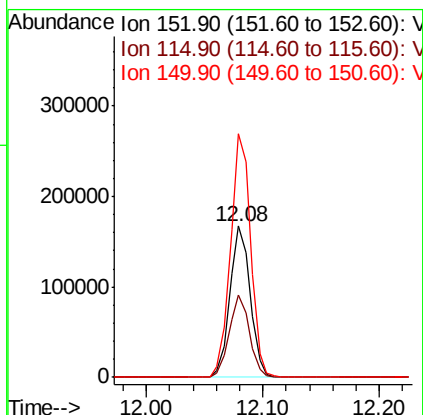
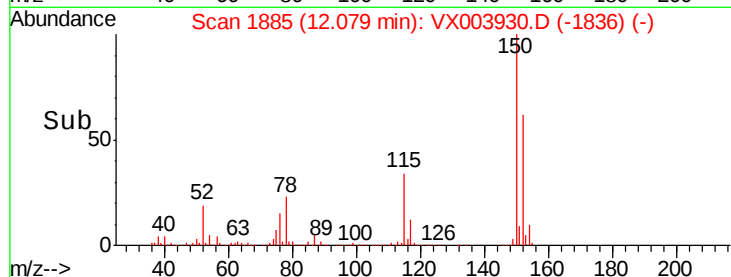
150 160.2 0.0 349.2



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: 23.05 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003930.D

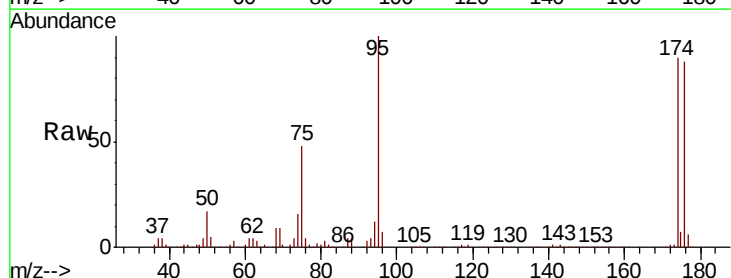
Acq: 08 Aug 2018 18:11

Tgt Ion: 75 Resp: 103123

Ion Ratio Lower Upper

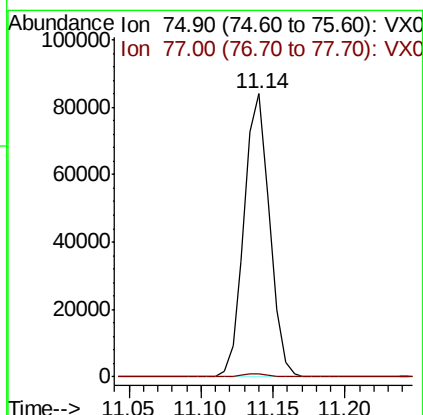
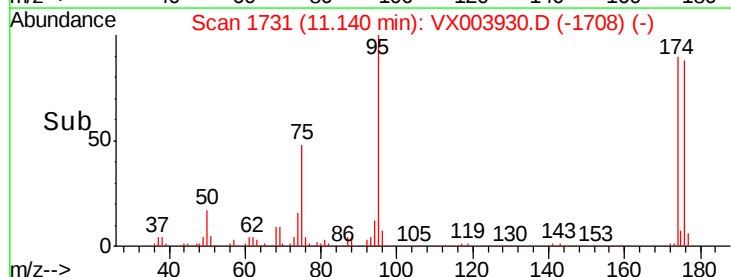
75 100

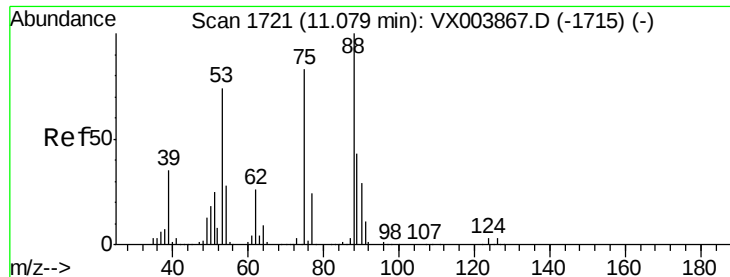
77 1.4 20.8 62.5#



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: 62.13 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003930.D

Acq: 08 Aug 2018 18:11

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-180807

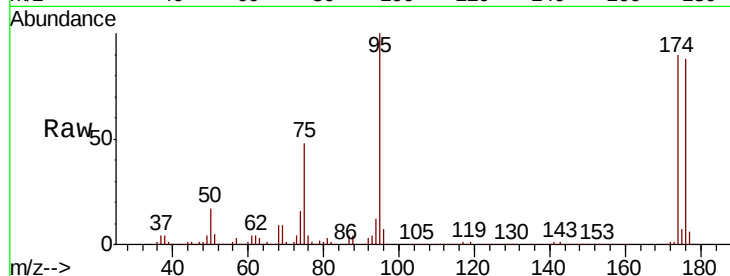
Tot Ion: 75 Resp: 103123

Ion Ratio Lower Upper

75 100

53 0.2 80.3 120.5#

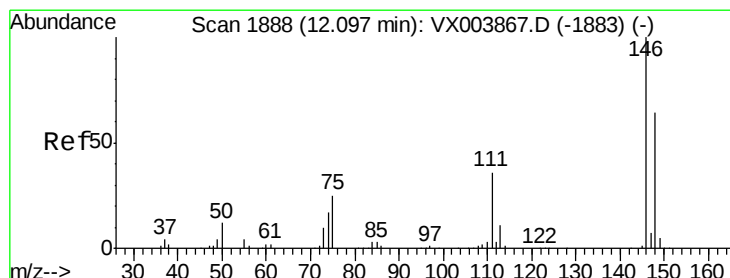
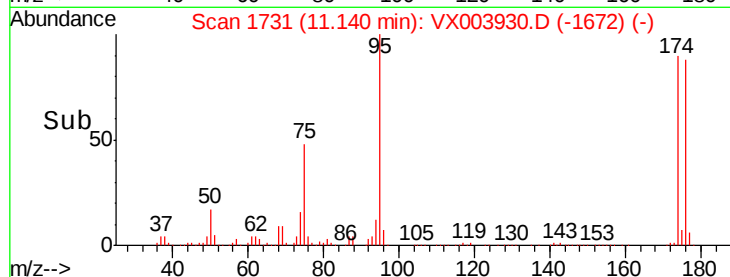
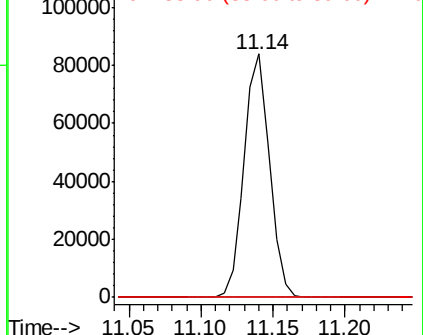
89 0.0 37.8 56.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 12.10 min Scan# 1888

Delta R.T. 0.00 min

Lab File: VX003930.D

Acq: 08 Aug 2018 18:11

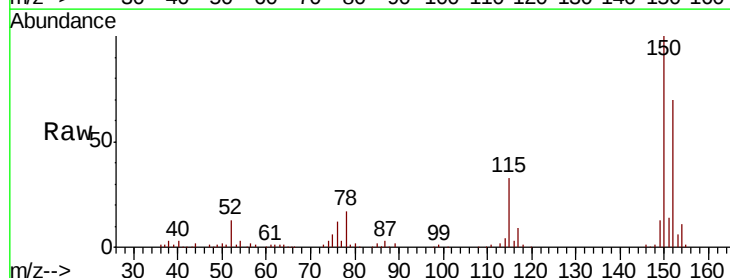
Tgt Ion: 146 Resp: 451

Ion Ratio Lower Upper

146 100

111 572.9 18.4 55.0#

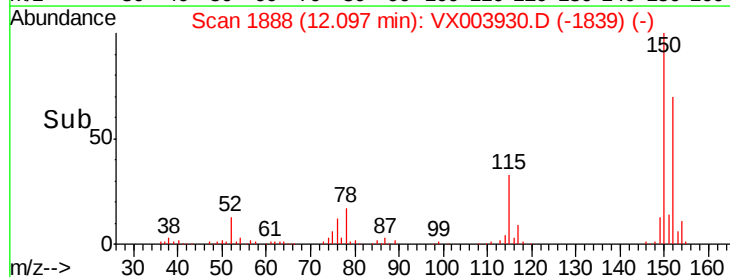
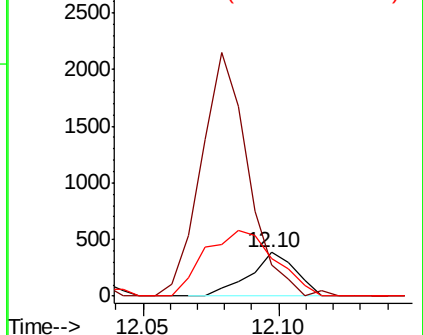
148 230.4 32.3 96.8#

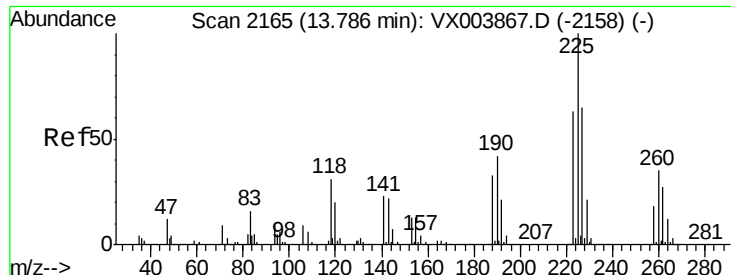


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#94

Hexachlorobutadiene

Concen: 0.52 ug/l

RT: 13.78 min Scan# 2164

Delta R.T. -0.01 min

Lab File: VX003930.D

Acq: 08 Aug 2018 18:11

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-180807

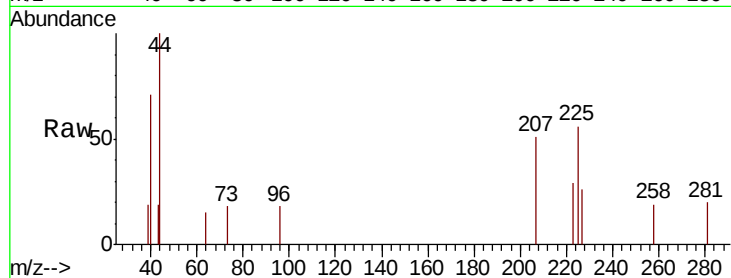
Tot Ion:225 Resp: 219

Ion Ratio Lower Upper

225 100

223 54.3 31.4 94.0

227 50.2 32.1 96.5



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

250

200

150

100

50

0

13.76 13.78 13.80

Time-->

