

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX080620\
 Data File : VX017804.D
 Acq On : 06 Aug 2020 13:24
 Operator : JC/SP
 Sample : L3570-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OUTFALL001-200804

Quant Time: Aug 06 15:24:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 24 05:48:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	483782	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	730856	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	690475	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	321559	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.04	65	322044	51.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.64%	
35) Dibromofluoromethane	5.47	113	247693	50.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.34%	
50) Toluene-d8	8.70	98	879823	49.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.80%	
62) 4-Bromofluorobenzene	11.12	95	320115	45.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.72%	

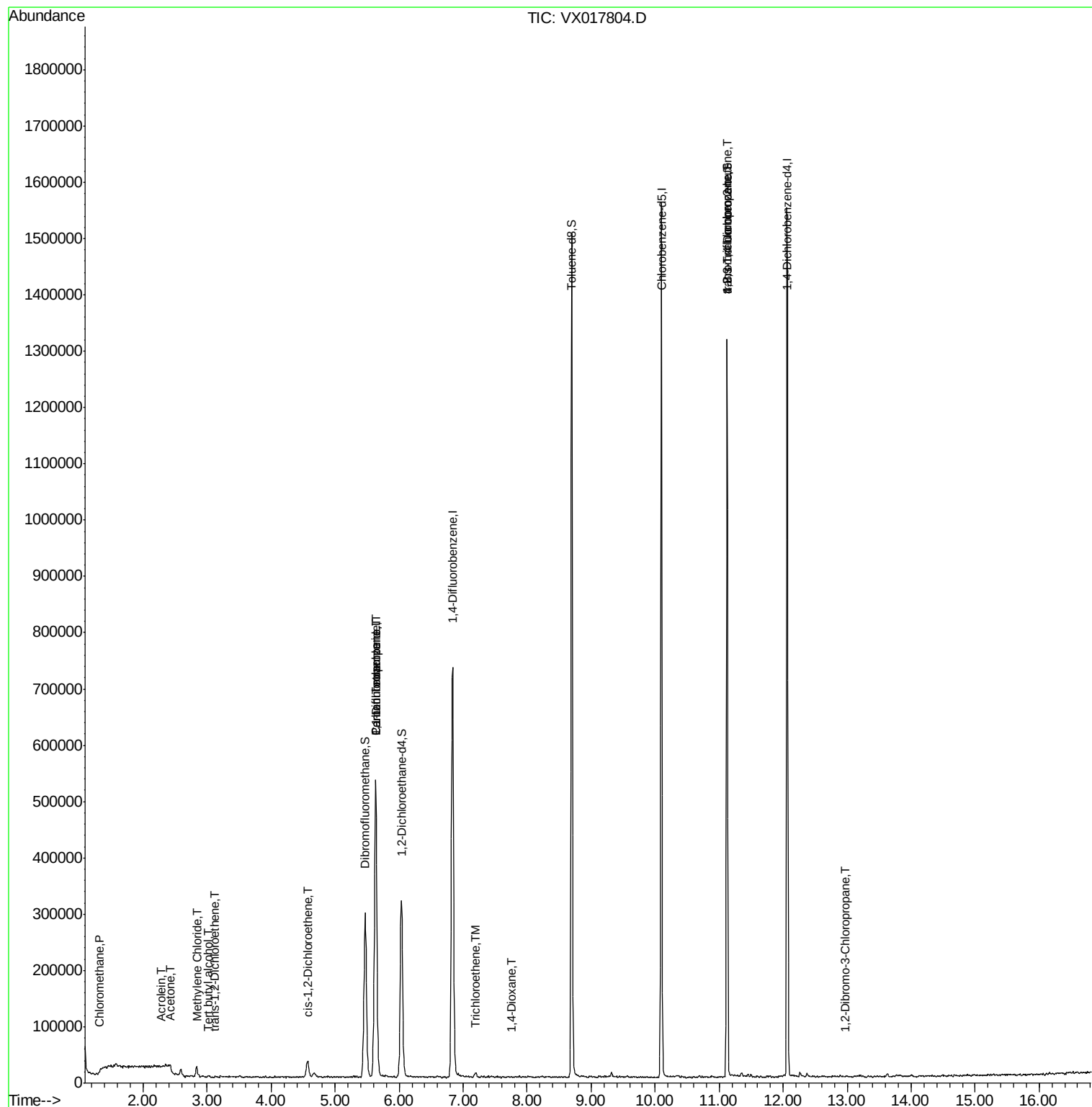
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	250	Below Cal		92
3) Chloromethane	1.31	50	832	0.505 ug/l #		85
5) Bromomethane	1.61	94	118	Below Cal		98
6) Chloroethane	1.72	64	466	Below Cal #		44
8) Diethyl Ether	2.17	74	961	Below Cal		87
11) Tert butyl alcohol	3.03	59	680	0.519 ug/l #		1
13) Acrolein	2.27	56	198	4.343 ug/l #		1
16) Acetone	2.43	43	4922	1.800 ug/l		92
20) Methylene Chloride	2.84	84	9045	0.484 ug/l #		82
21) trans-1,2-Dichloroethene	3.13	96	1090	0.204 ug/l #		28
27) cis-1,2-Dichloroethene	4.57	96	18855	3.243 ug/l		87
36) 1,1-Dichloropropene	5.63	75	38788	5.534 ug/l #		47
38) Carbon Tetrachloride	5.64	117	50435	5.925 ug/l #		17
44) Trichloroethene	7.19	130	2742	0.467 ug/l		98
49) 1,4-Dioxane	7.74	88	505	4.199 ug/l #		9
76) 1,2,3-Trichloropropane	11.12	75	163938	24.784 ug/l #		35
81) trans-1,4-Dichloro-2-buten	11.12	75	163938	62.451 ug/l #		12
92) 1,2-Dibromo-3-Chloropropan	12.97	75	248	2.697 ug/l #		13

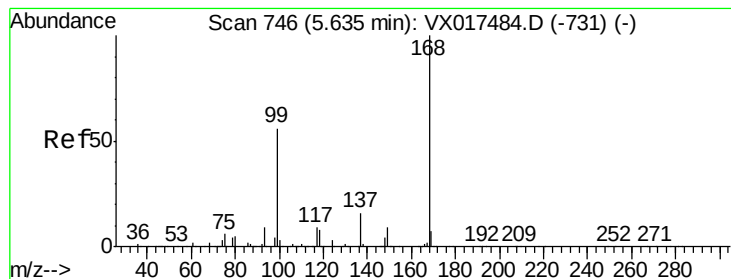
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017804.D

Acq: 06 Aug 2020 13:24

Instrument :

MSVOA_X

ClientSampleId :

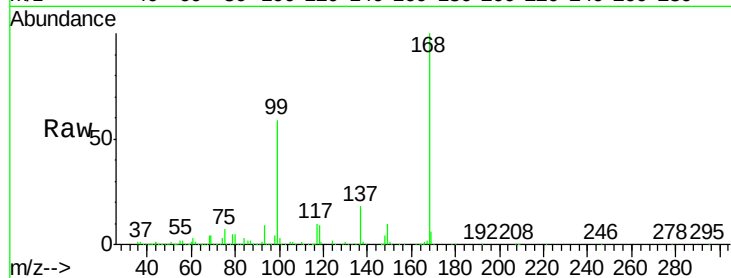
OUTFALL001-200804

Tgt Ion:168 Resp: 483782

Ion Ratio Lower Upper

168 100

99 59.1 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

200000

150000

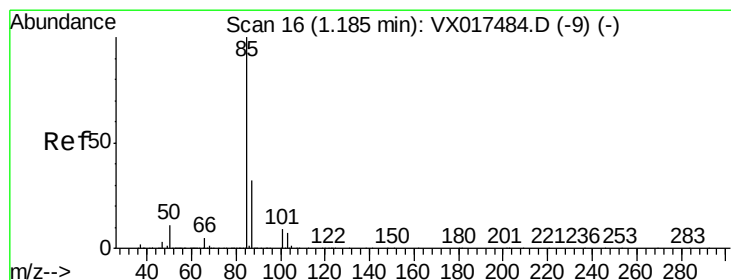
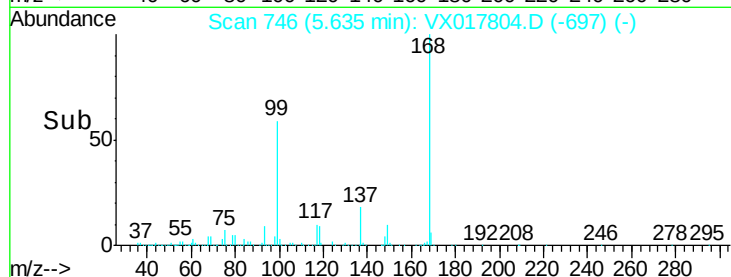
100000

50000

0

5.50 5.60 5.70

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.19 min Scan# 17

Delta R.T. 0.01 min

Lab File: VX017804.D

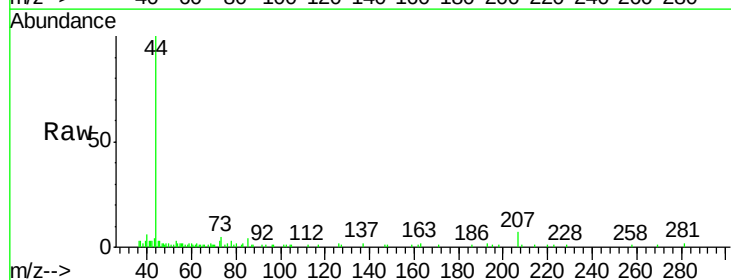
Acq: 06 Aug 2020 13:24

Tgt Ion: 85 Resp: 250

Ion Ratio Lower Upper

85 100

87 36.7 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

250

200

150

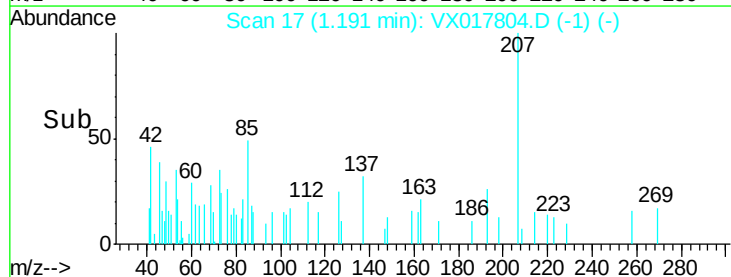
100

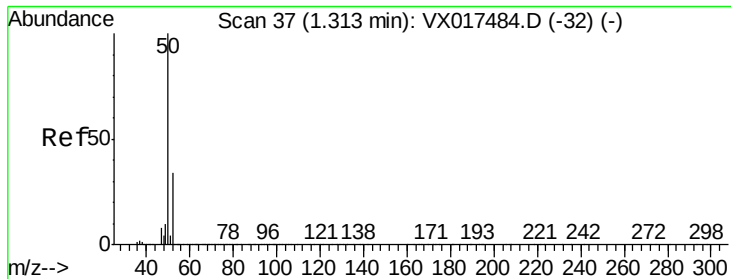
50

0

1.16 1.18 1.20 1.22

Time-->





#3

Chloromethane

Concen: 0.505 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX017804.D

Acq: 06 Aug 2020 13:24

Instrument :

MSVOA_X

ClientSampleId :

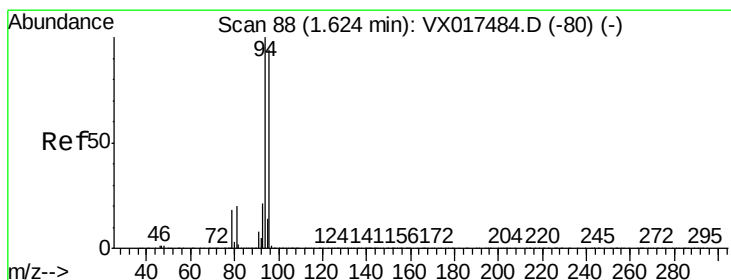
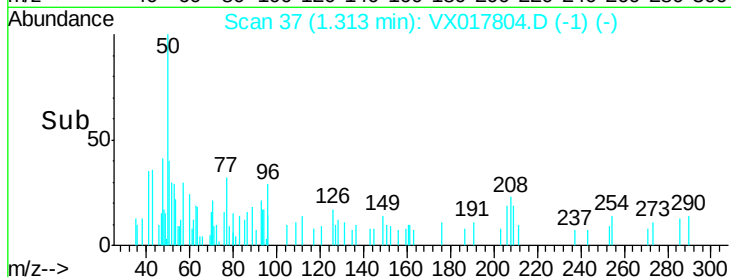
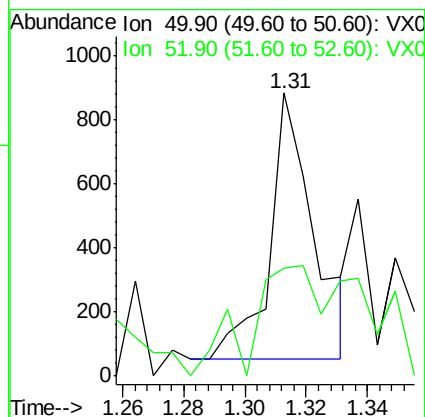
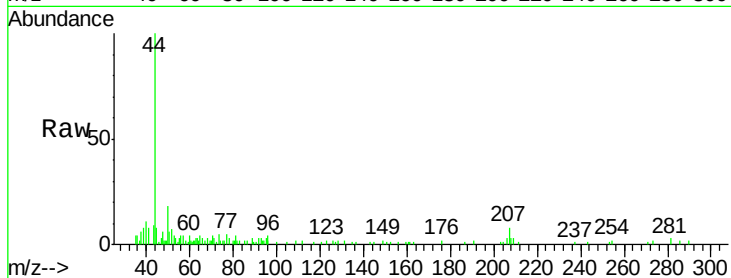
OUTFALL001-200804

Tgt Ion: 50 Resp: 832

Ion Ratio Lower Upper

50 100

52 40.8 25.9 38.9#



#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 85

Delta R.T. -0.02 min

Lab File: VX017804.D

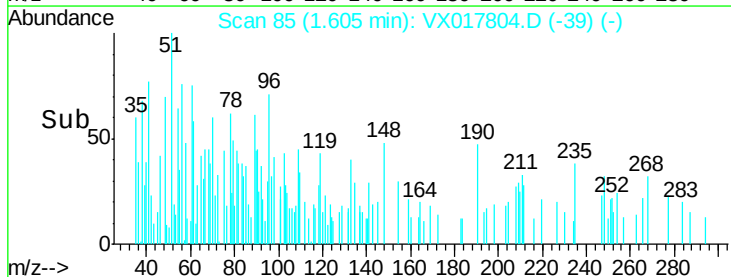
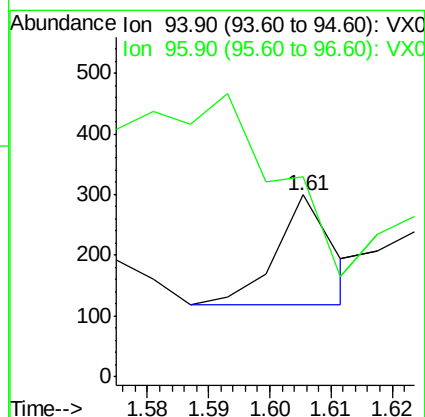
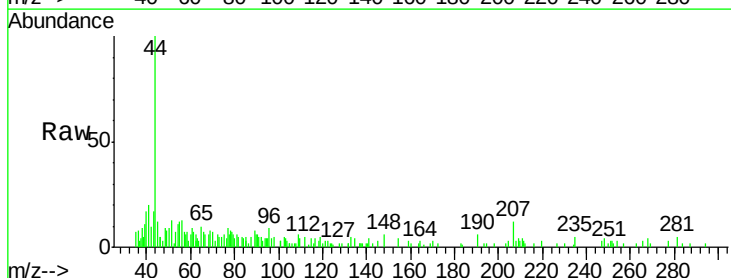
Acq: 06 Aug 2020 13:24

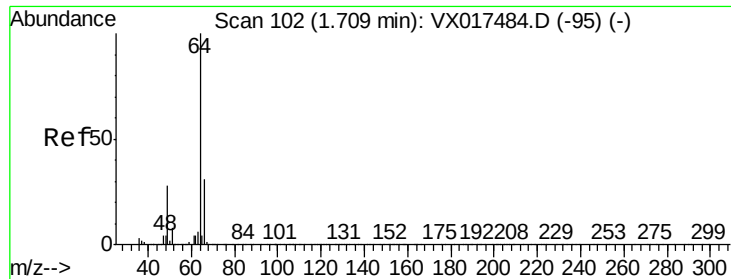
Tgt Ion: 94 Resp: 118

Ion Ratio Lower Upper

94 100

96 91.2 74.1 111.1





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 104

Delta R.T. 0.01 min

Lab File: VX017804.D

Acq: 06 Aug 2020 13:24

Instrument :

MSVOA_X

ClientSampleId :

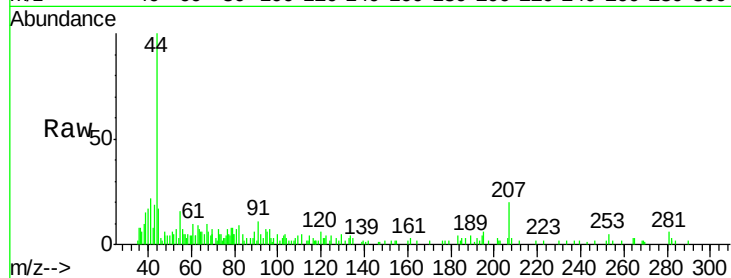
OUTFALL001-200804

Tgt Ion: 64 Resp: 466

Ion Ratio Lower Upper

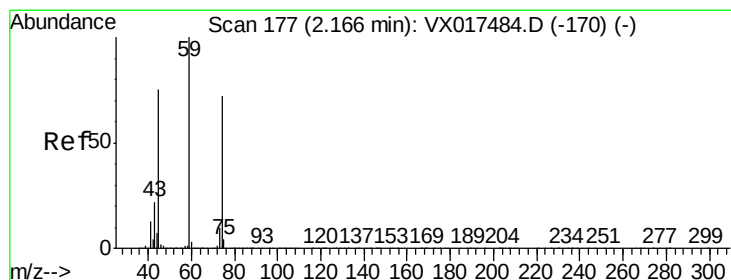
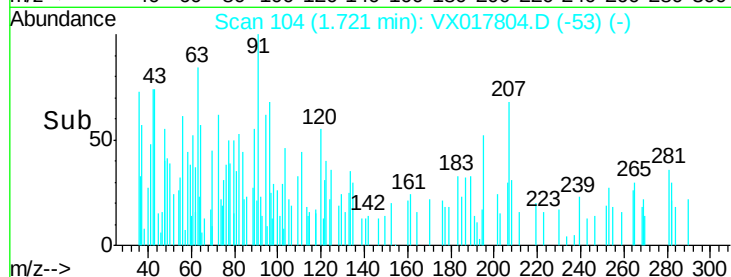
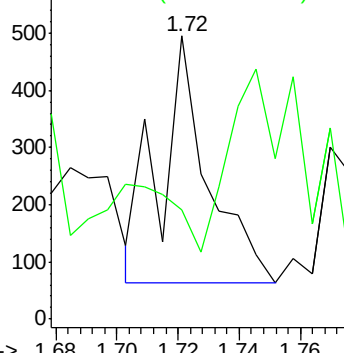
64 100

66 0.0 24.9 37.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017804.D

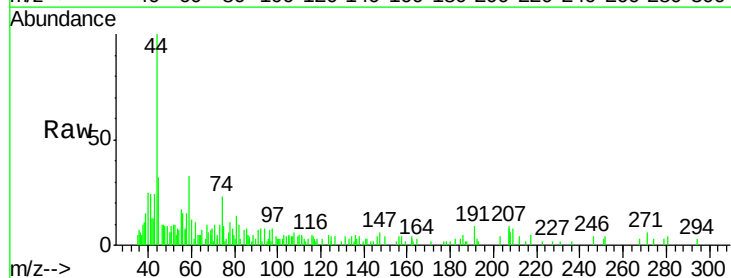
Acq: 06 Aug 2020 13:24

Tgt Ion: 74 Resp: 961

Ion Ratio Lower Upper

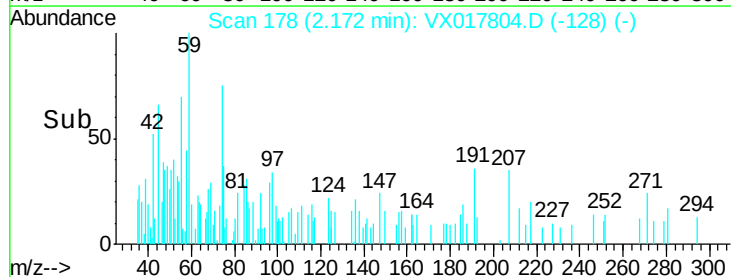
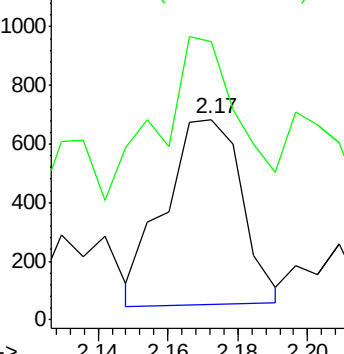
74 100

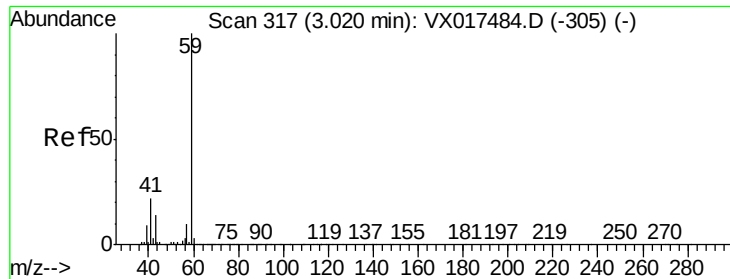
45 88.1 50.8 152.5



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

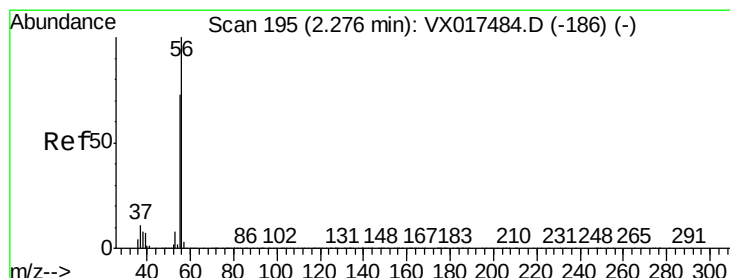
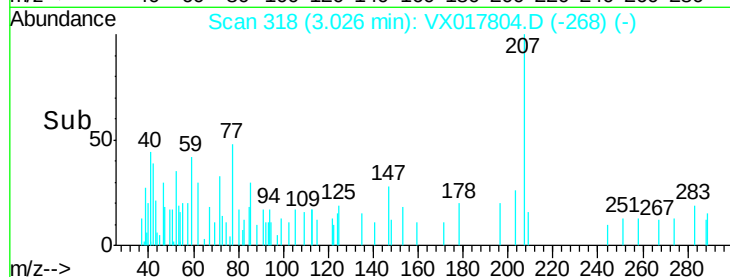
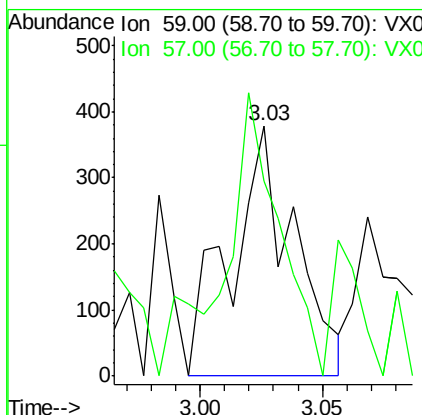
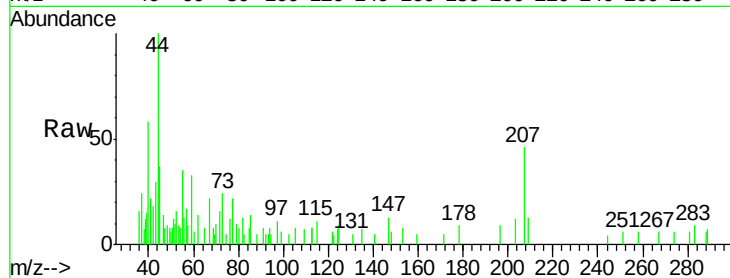




#11
Tert butyl alcohol
Concen: 0.519 ug/l
RT: 3.03 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX017804.D
Acq: 06 Aug 2020 13:24

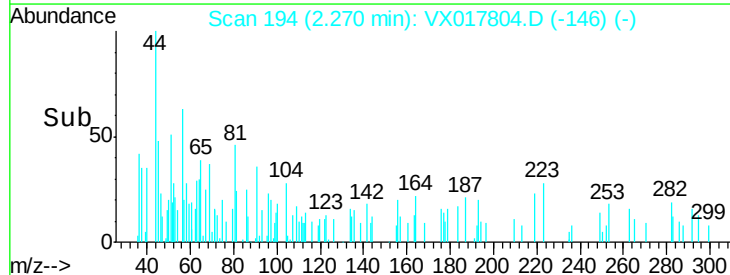
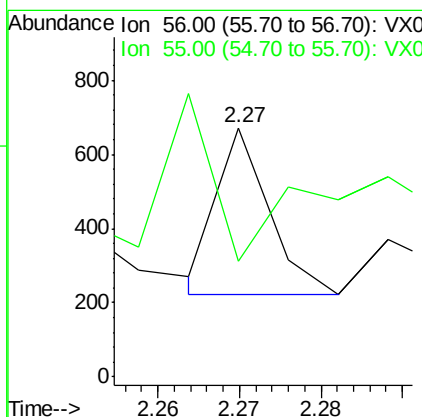
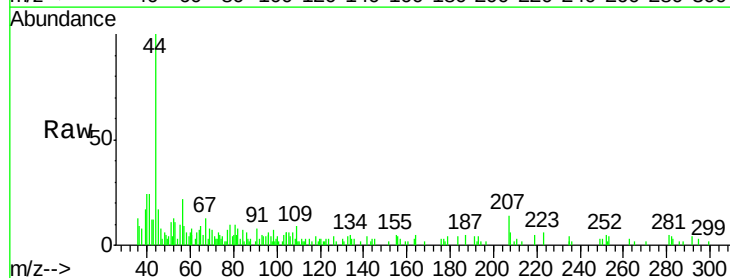
Instrument :
MSVOA_X
ClientSampleId :
OUTFALL001-200804

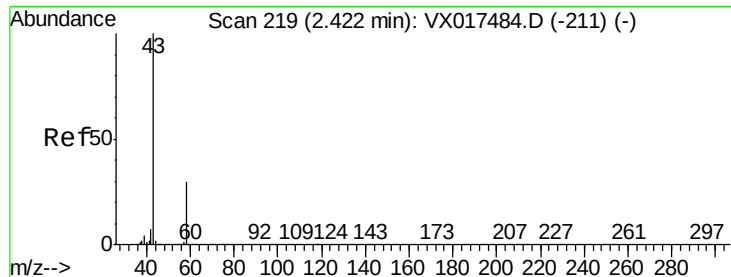
Tgt Ion: 59 Resp: 680
Ion Ratio Lower Upper
59 100
57 99.4 8.6 12.8#



#13
Acrolein
Concen: 4.343 ug/l
RT: 2.27 min Scan# 194
Delta R.T. -0.01 min
Lab File: VX017804.D
Acq: 06 Aug 2020 13:24

Tgt Ion: 56 Resp: 198
Ion Ratio Lower Upper
56 100
55 203.5 57.4 86.2#





#16

Acetone

Concen: 1.800 ug/l

RT: 2.43 min Scan# 220

Delta R.T. 0.01 min

Lab File: VX017804.D

Acq: 06 Aug 2020 13:24

Instrument :

MSVOA_X

ClientSampleId :

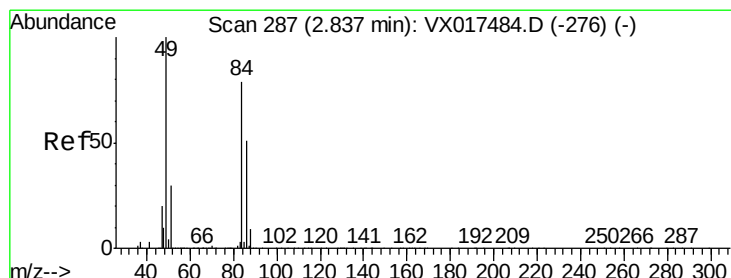
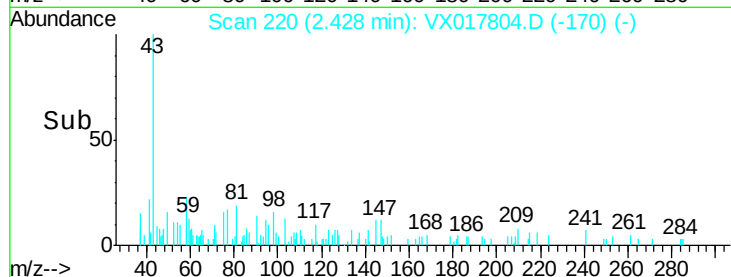
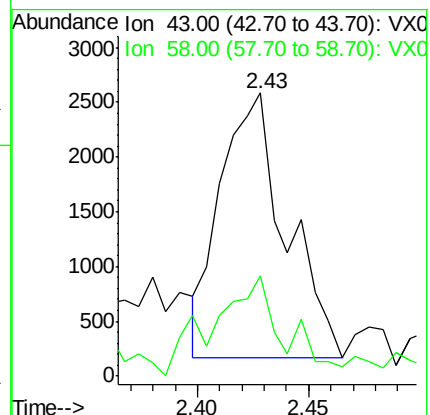
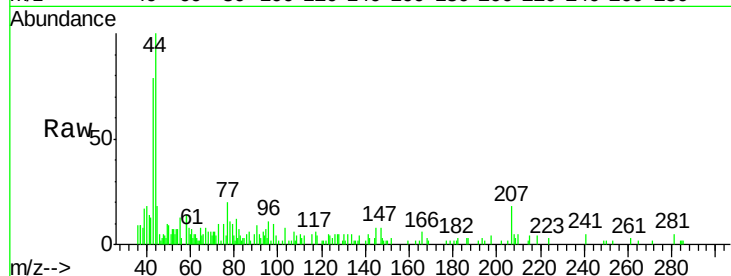
OUTFALL001-200804

Tgt Ion: 43 Resp: 4922

Ion Ratio Lower Upper

43 100

58 34.5 24.2 36.4



#20

Methylene Chloride

Concen: 0.484 ug/l

RT: 2.84 min Scan# 287

Delta R.T. 0.00 min

Lab File: VX017804.D

Acq: 06 Aug 2020 13:24

Tgt Ion: 84 Resp: 9045

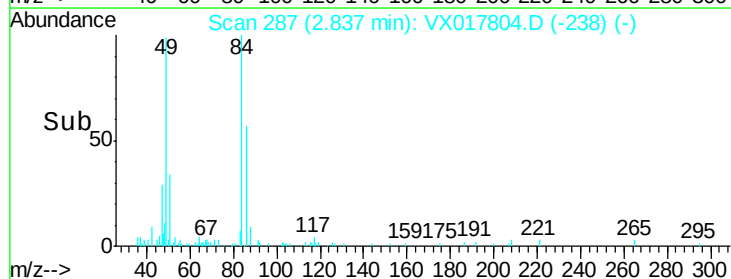
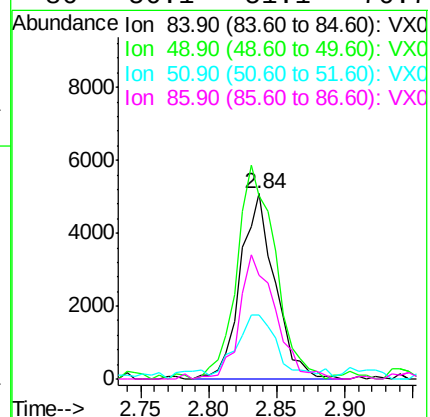
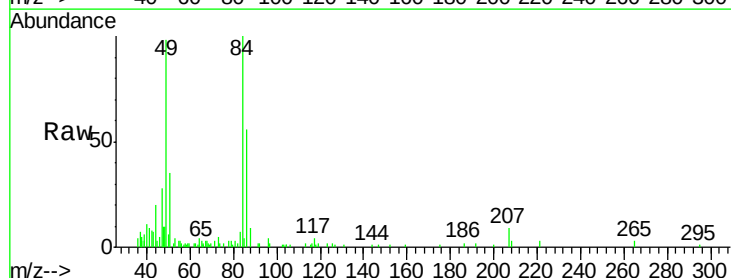
Ion Ratio Lower Upper

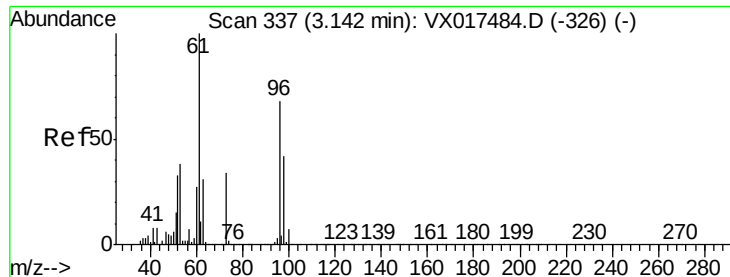
84 100

49 98.4 100.3 150.5#

51 32.2 30.5 45.7

86 56.1 51.1 76.7





#21

trans-1,2-Dichloroethene

Concen: 0.204 ug/l

RT: 3.13 min Scan# 335

Delta R.T. -0.01 min

Lab File: VX017804.D

Acq: 06 Aug 2020 13:24

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-200804

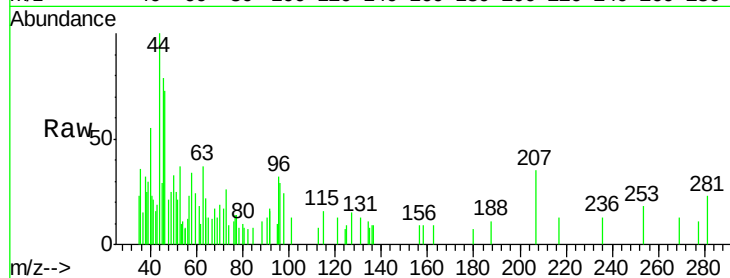
Tgt Ion: 96 Resp: 1090

Ion Ratio Lower Upper

96 100

61 29.9 113.0 169.4#

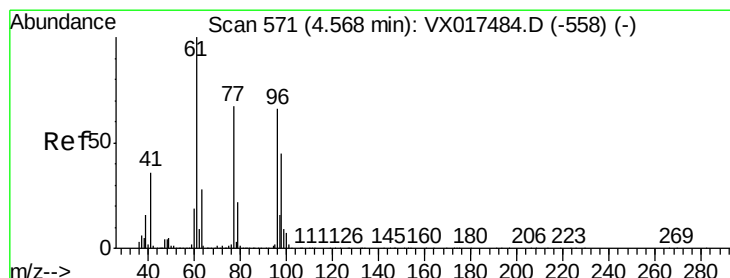
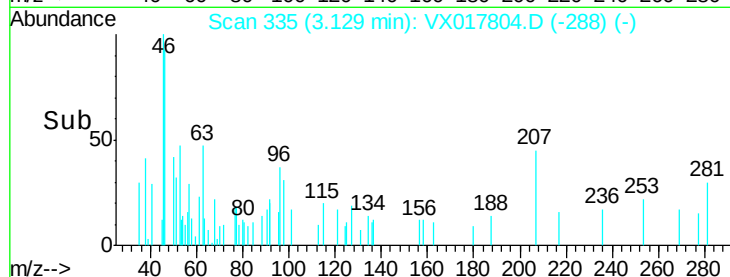
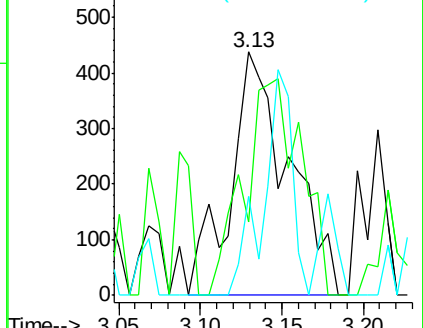
98 40.4 51.8 77.8#



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



#27

cis-1,2-Dichloroethene

Concen: 3.243 ug/l

RT: 4.57 min Scan# 572

Delta R.T. 0.01 min

Lab File: VX017804.D

Acq: 06 Aug 2020 13:24

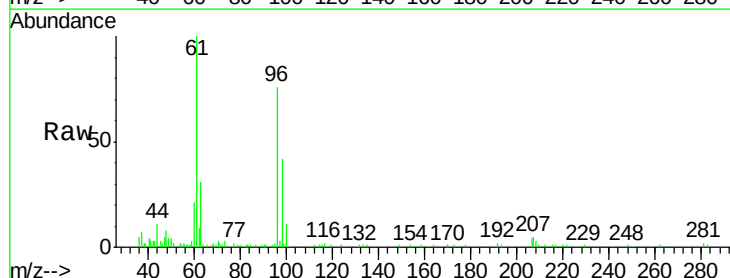
Tgt Ion: 96 Resp: 18855

Ion Ratio Lower Upper

96 100

61 128.5 0.0 301.2

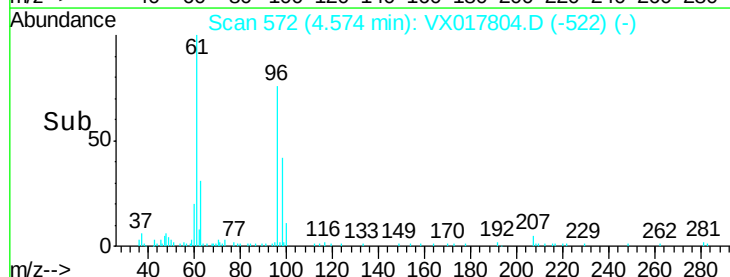
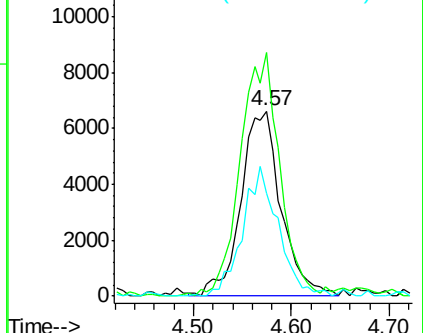
98 62.2 0.0 130.0

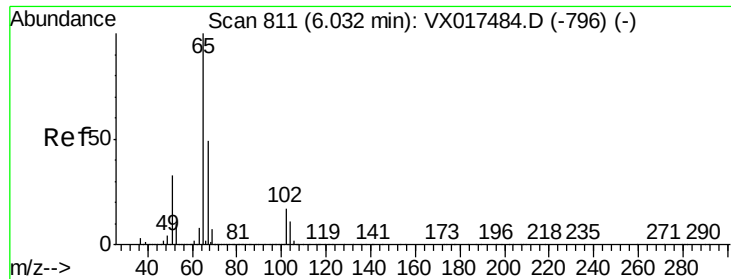


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

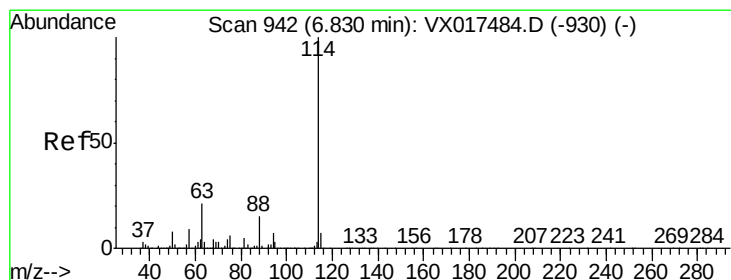
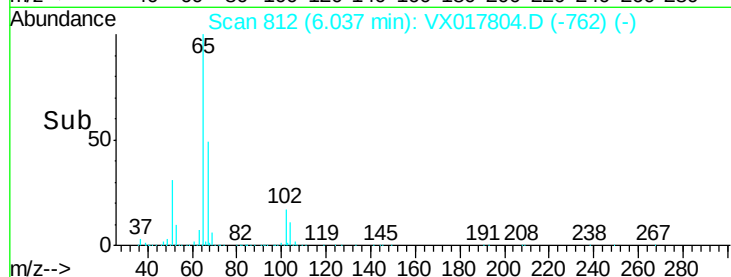
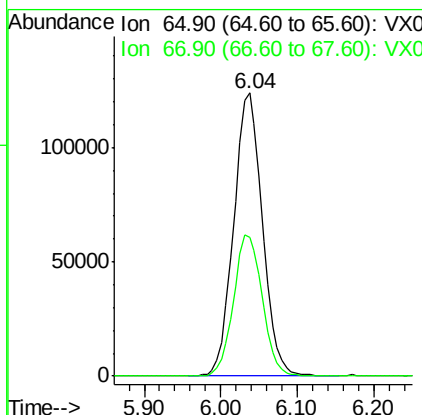
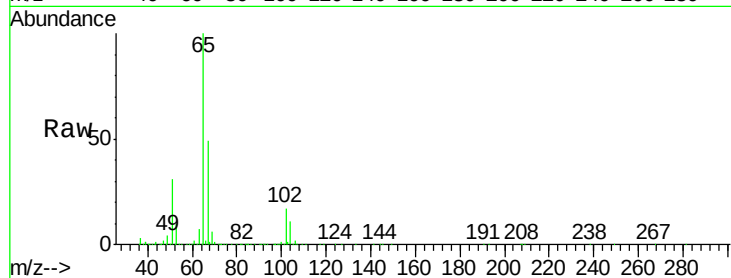




#33
 1,2-Dichloroethane-d4
 Concen: 51.822 ug/l
 RT: 6.04 min Scan# 812
 Delta R.T. 0.01 min
 Lab File: VX017804.D
 Acq: 06 Aug 2020 13:24

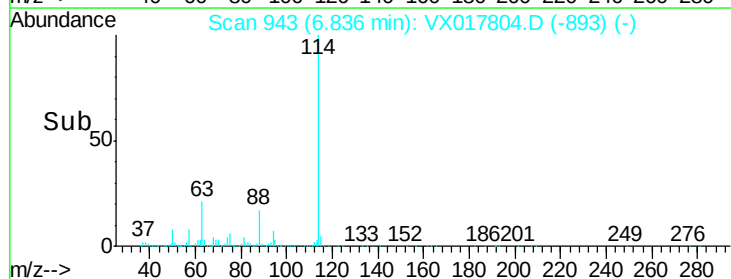
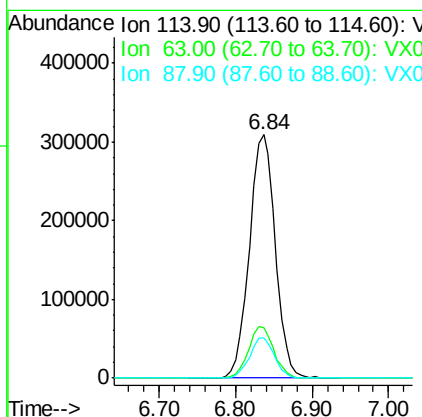
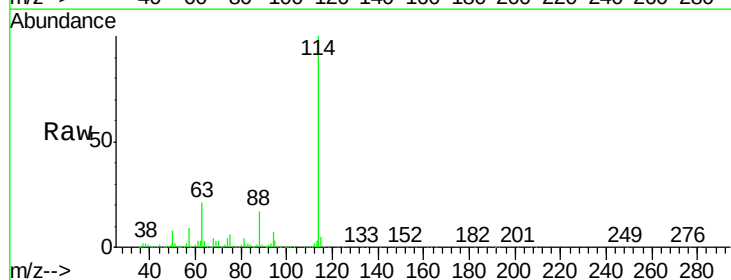
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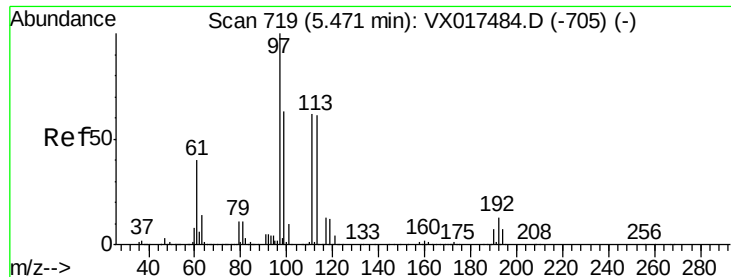
Tgt Ion: 65 Resp: 322044
 Ion Ratio Lower Upper
 65 100
 67 50.0 0.0 102.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX017804.D
 Acq: 06 Aug 2020 13:24

Tgt Ion: 114 Resp: 730856
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 40.6
 88 16.6 0.0 33.4

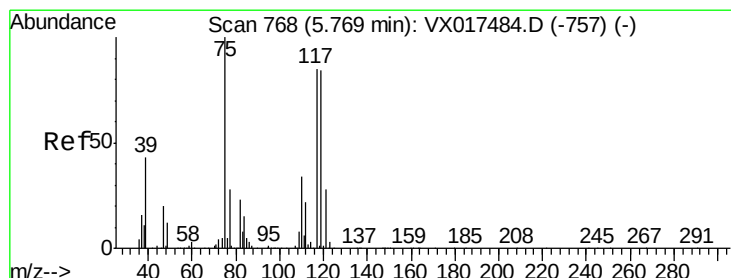
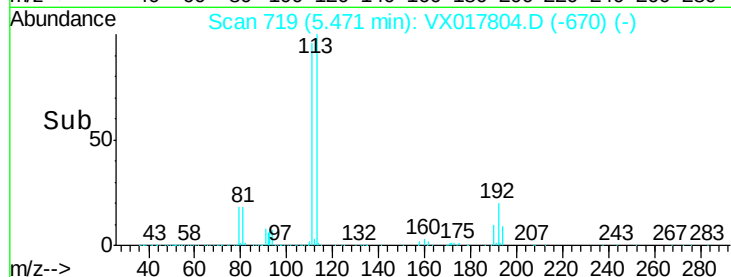
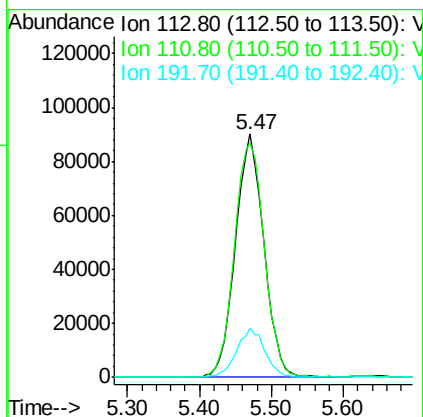
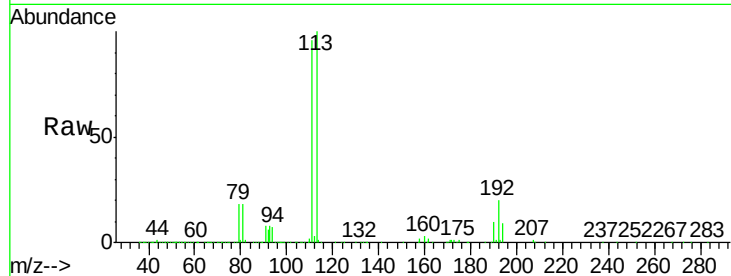




#35
 Dibromofluoromethane
 Concen: 50.674 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. -0.00 min
 Lab File: VX017804.D
 Acq: 06 Aug 2020 13:24

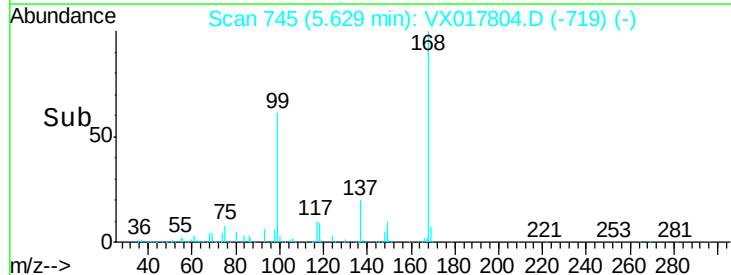
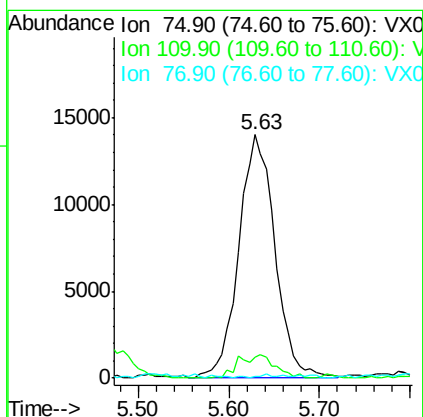
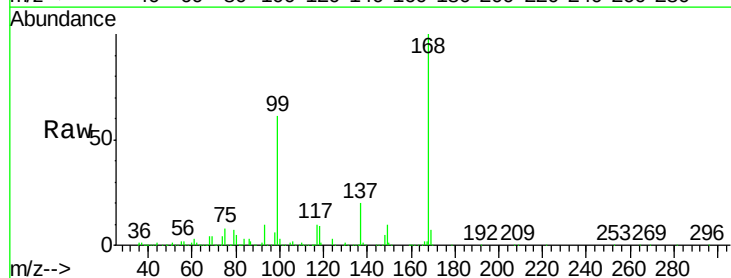
Instrument :
 MSVOA_X
 ClientSampleId :
 OUTFALL001-200804

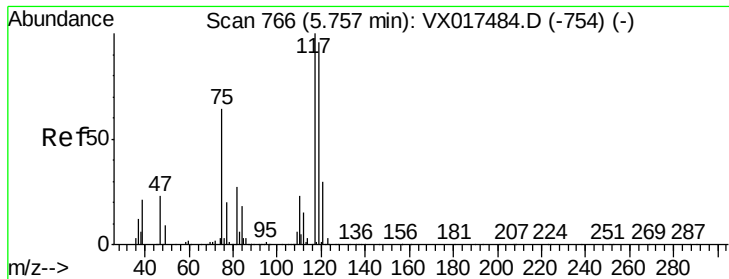
Tgt Ion:113 Resp: 247693
 Ion Ratio Lower Upper
 113 100
 111 101.5 80.7 121.1
 192 19.9 16.9 25.3



#36
 1,1-Dichloropropene
 Concen: 5.534 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017804.D
 Acq: 06 Aug 2020 13:24

Tgt Ion: 75 Resp: 38788
 Ion Ratio Lower Upper
 75 100
 110 5.8 18.1 54.3#
 77 0.6 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 5.925 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017804.D

Acq: 06 Aug 2020 13:24

Instrument :

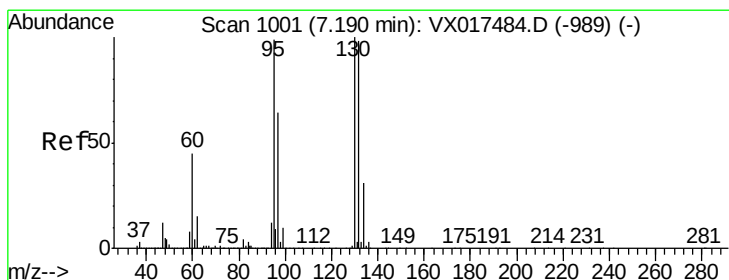
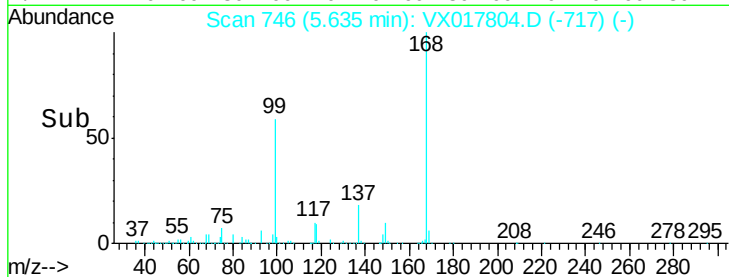
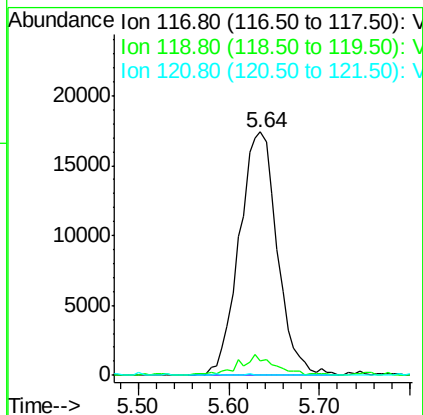
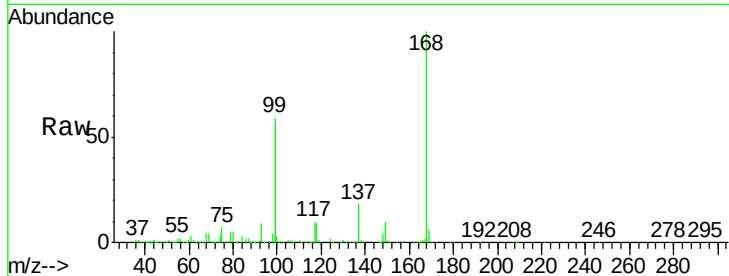
MSVOA_X

ClientSampleId :

OUTFALL001-200804

Tgt Ion:117 Resp: 50435

Ion	Ratio	Lower	Upper
117	100		
119	5.7	75.4	113.0#
121	0.0	24.3	36.5#



#44

Trichloroethene

Concen: 0.467 ug/l

RT: 7.19 min Scan# 1001

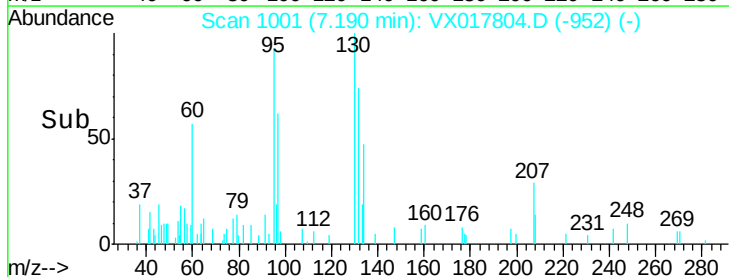
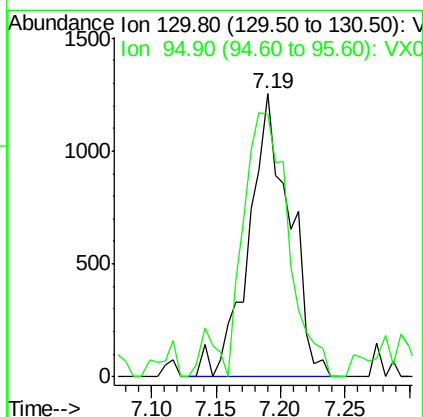
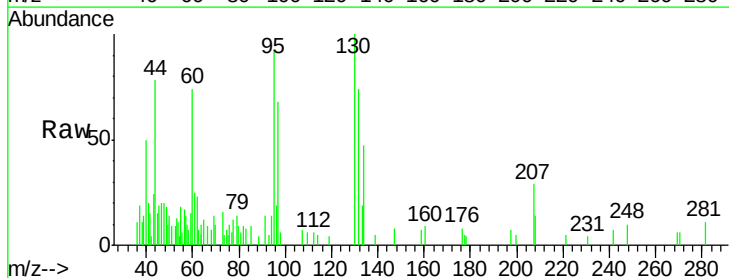
Delta R.T. -0.00 min

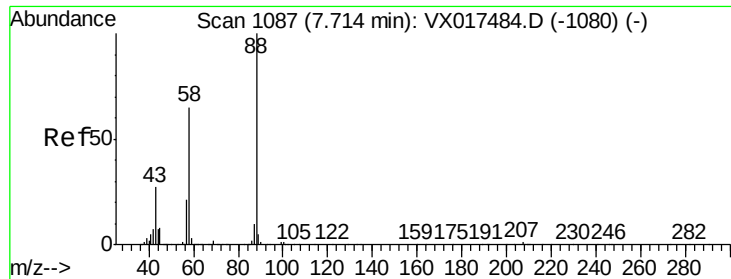
Lab File: VX017804.D

Acq: 06 Aug 2020 13:24

Tgt Ion:130 Resp: 2742

Ion	Ratio	Lower	Upper
130	100		
95	93.0	0.0	189.0





#49

1,4-Dioxane

Concen: 4.199 ug/l

RT: 7.74 min Scan# 1092

Delta R.T. 0.03 min

Lab File: VX017804.D

Acq: 06 Aug 2020 13:24

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-200804

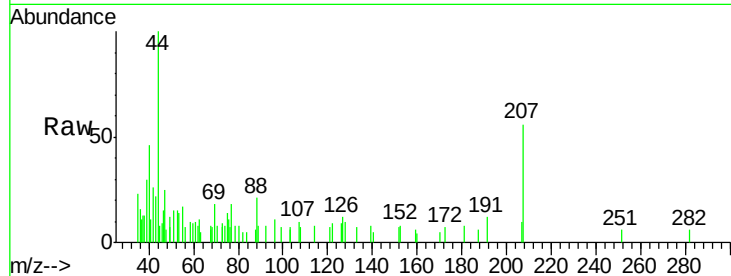
Tgt Ion: 88 Resp: 505

Ion Ratio Lower Upper

88 100

43 92.9 27.8 41.6#

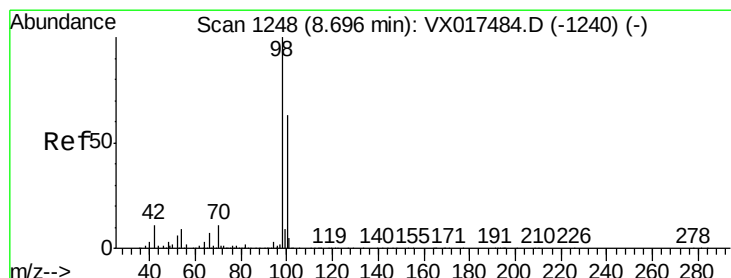
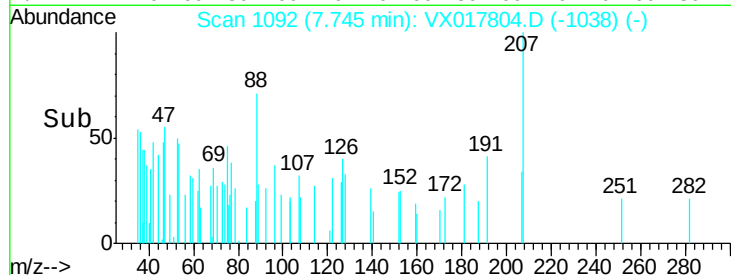
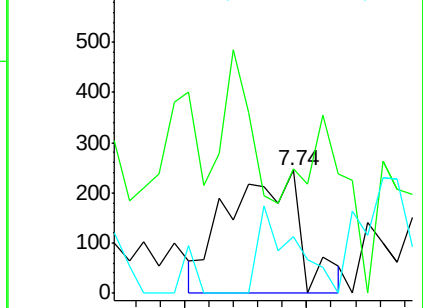
58 0.0 58.3 87.5#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 49.895 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017804.D

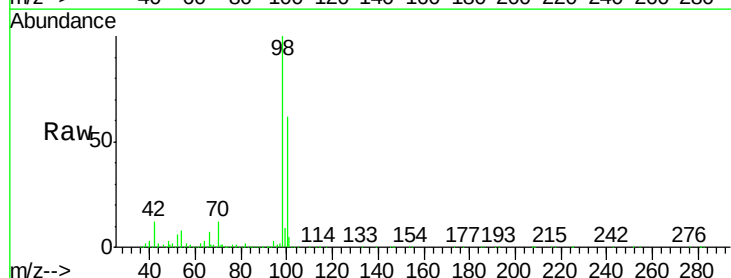
Acq: 06 Aug 2020 13:24

Tgt Ion: 98 Resp: 879823

Ion Ratio Lower Upper

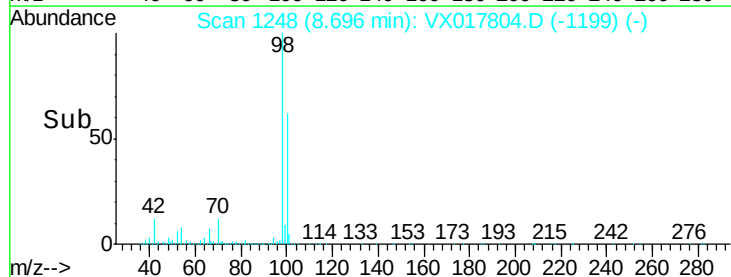
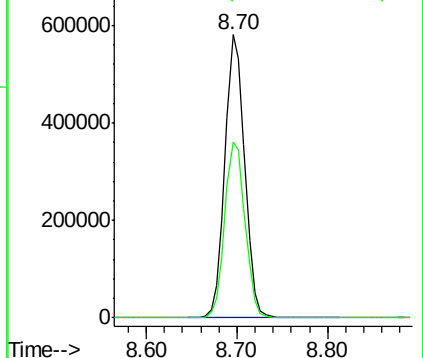
98 100

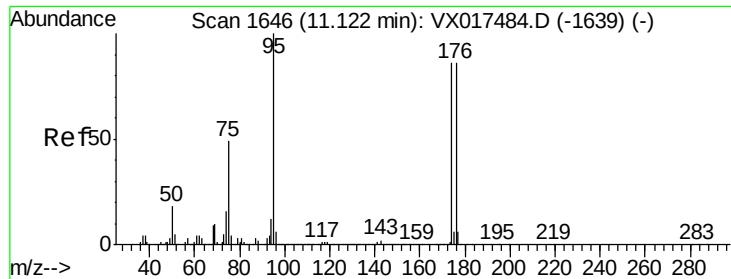
100 64.3 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 45.362 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017804.D

Acq: 06 Aug 2020 13:24

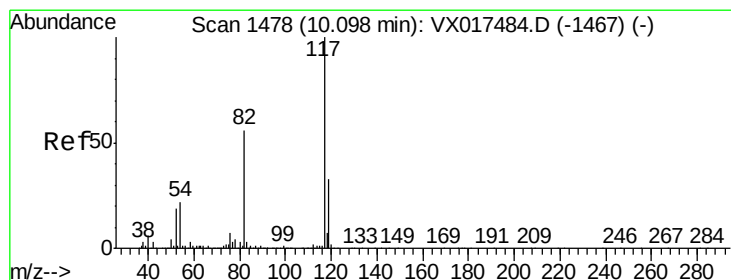
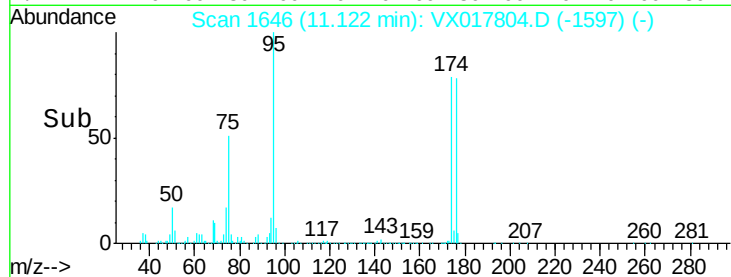
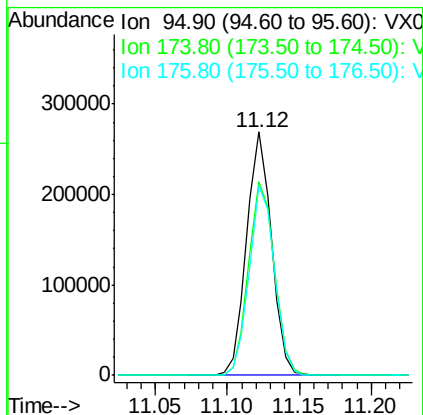
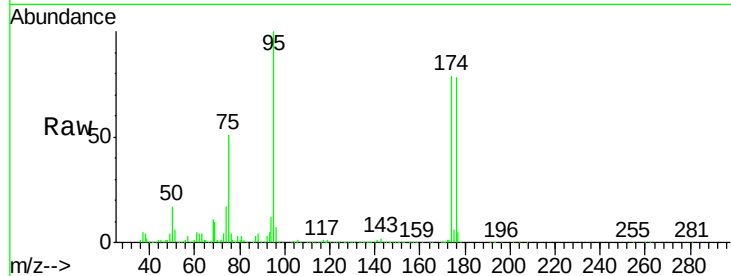
Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-200804

Tgt Ion:	95	Resp:	320115
Ion	Ratio	Lower	Upper
95	100		
174	82.9	0.0	169.0
176	79.2	0.0	161.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

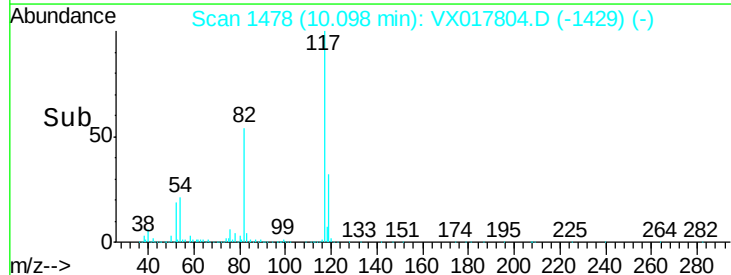
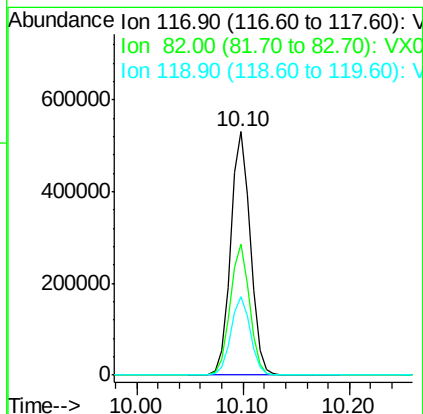
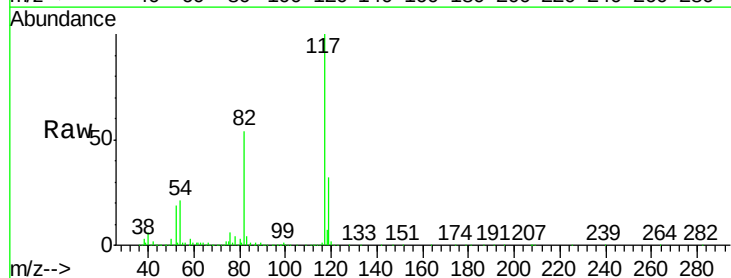
RT: 10.10 min Scan# 1478

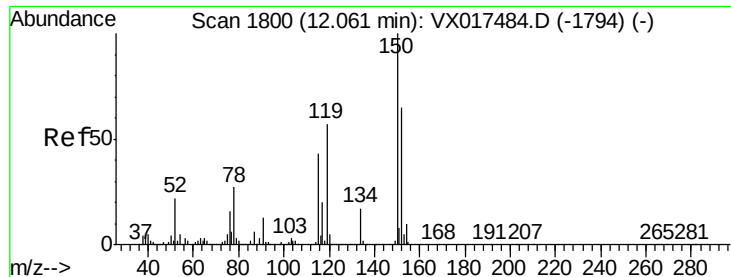
Delta R.T. -0.00 min

Lab File: VX017804.D

Acq: 06 Aug 2020 13:24

Tgt Ion:	117	Resp:	690475
Ion	Ratio	Lower	Upper
117	100		
82	53.7	44.0	66.0
119	32.2	25.4	38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1801

Delta R.T. 0.01 min

Lab File: VX017804.D

Acq: 06 Aug 2020 13:24

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-200804

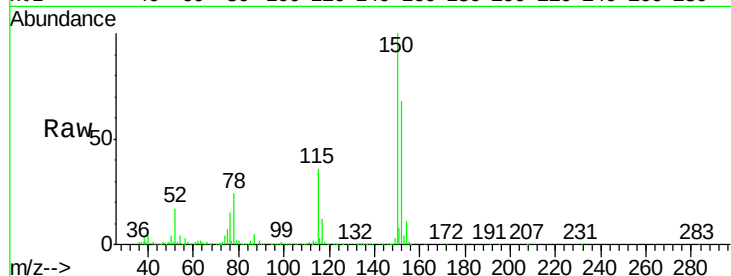
Tgt Ion: 152 Resp: 321559

Ion Ratio Lower Upper

152 100

115 58.2 65.5 196.6#

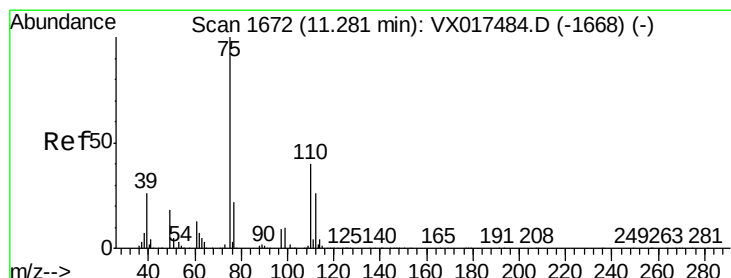
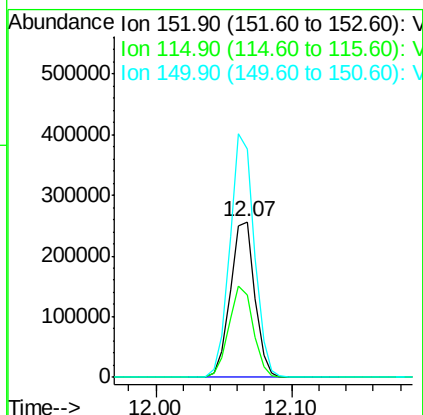
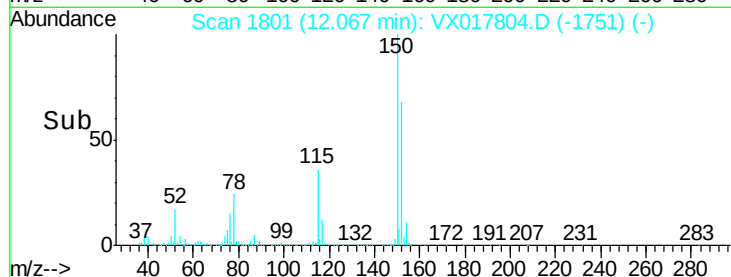
150 155.3 0.0 412.6



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: 24.784 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017804.D

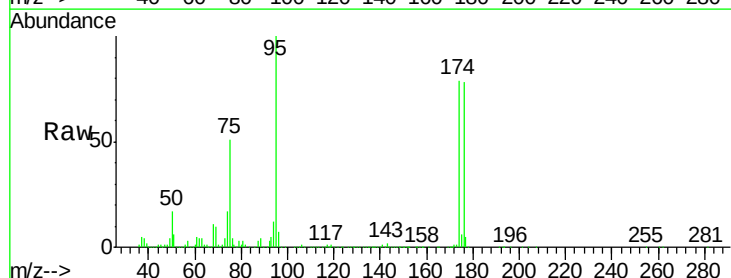
Acq: 06 Aug 2020 13:24

Tgt Ion: 75 Resp: 163938

Ion Ratio Lower Upper

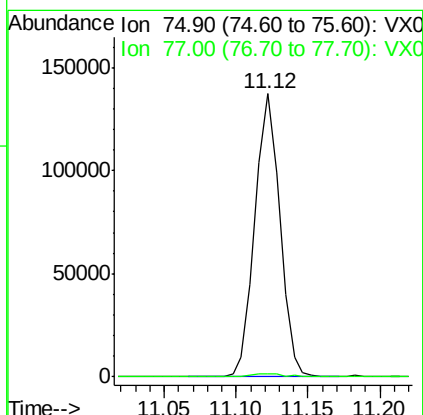
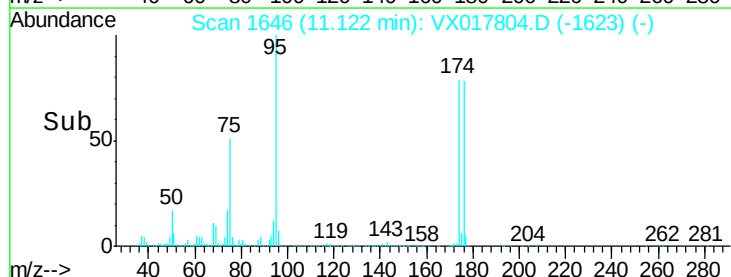
75 100

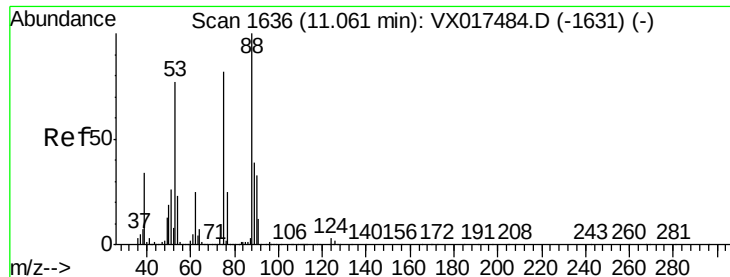
77 1.6 21.8 65.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 62.451 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017804.D

Acq: 06 Aug 2020 13:24

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-200804

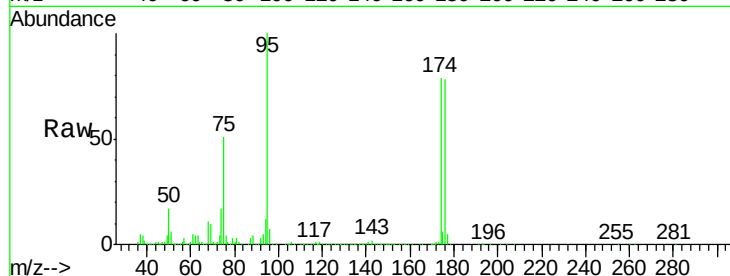
Tgt Ion: 75 Resp: 163938

Ion Ratio Lower Upper

75 100

53 0.4 75.9 113.9#

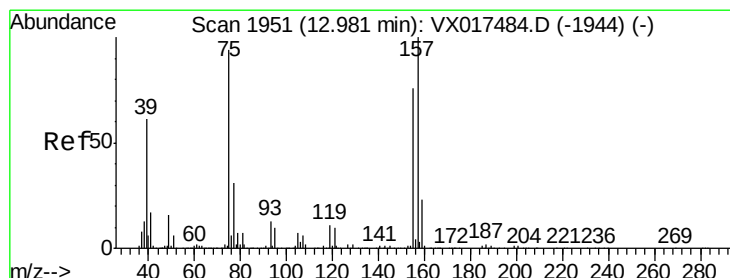
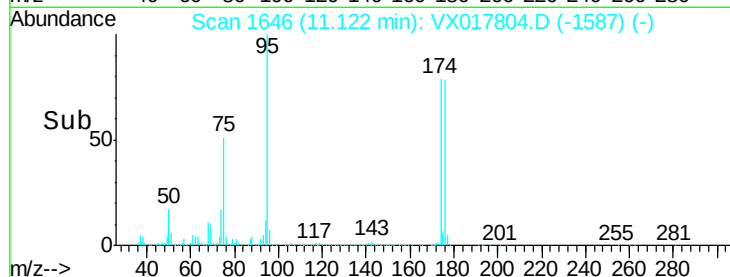
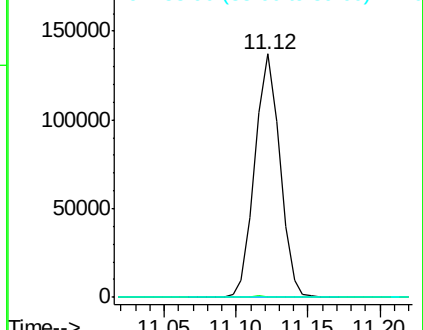
89 0.1 37.8 56.6#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.697 ug/l

RT: 12.97 min Scan# 1949

Delta R.T. -0.01 min

Lab File: VX017804.D

Acq: 06 Aug 2020 13:24

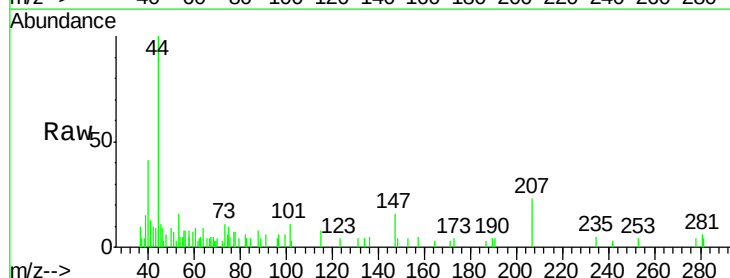
Tgt Ion: 75 Resp: 248

Ion Ratio Lower Upper

75 100

155 0.0 42.3 126.8#

157 22.6 54.3 162.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

