

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080718\
 Data File : VX003900.D
 Acq On : 08 Aug 2018 00:58
 Operator : JC/MD
 Sample : J4341-02 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DSN002-SEWER-OUTLET-002

Quant Time: Aug 08 04:17:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X072718W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 27 16:17:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	66224	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	344911	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	311561	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	141821	29.17	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.23%
60) 4-Bromofluorobenzene	11.14	95	131062	26.13	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	87.10%
63) Toluene-d8	8.72	98	403432	28.74	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	95.80%

Target Compounds

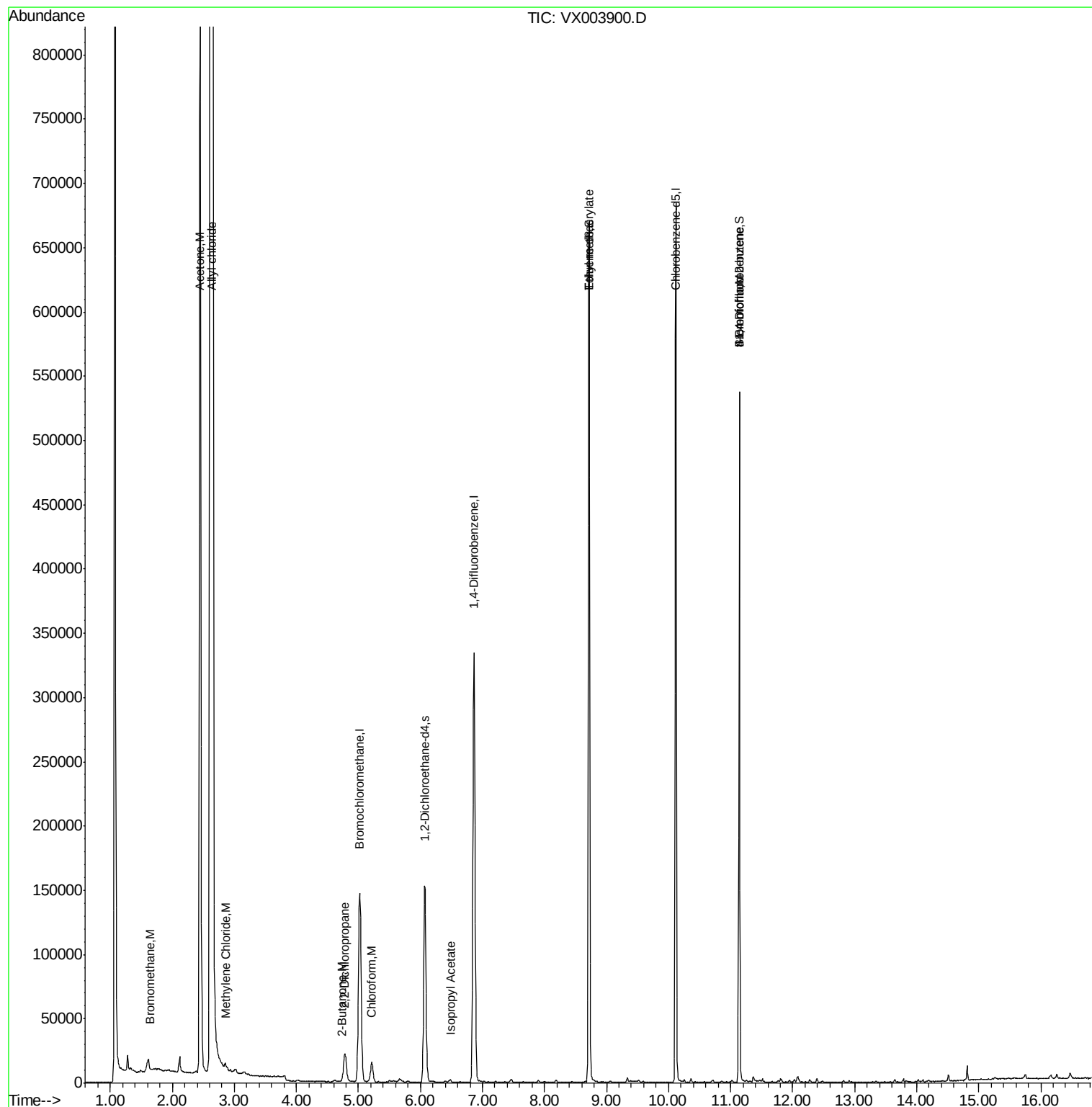
						Ovalue
5) Bromomethane	1.64	94	991	0.33	ug/l	81
15) Acetone	2.45	58	310830	413.80	ug/l	81
17) Allyl chloride	2.64	41	1305555	166.15	ug/l #	75
18) Methylene Chloride	2.86	84	2024	0.45	ug/l #	85
25) Chloroform	5.22	83	17491	2.47	ug/l	99
30) 2-Butanone	4.72	43	790	0.24	ug/l #	87
31) 2,2-Dichloropropane	4.79	77	1951	0.40	ug/l #	52
44) Isopropyl Acetate	6.48	43	2052	0.22	ug/l	95
51) Ethyl methacrylate	8.72	69	1329	0.21	ug/l	99
56) Bromoform	11.14	173	1219	0.38	ug/l #	1
77) t-1,4-Dichloro-2-butene	11.14	75	63226	34.61	ug/l #	11

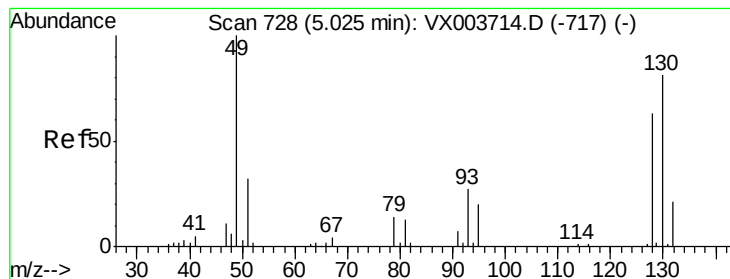
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 08 04:17:58 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X072718W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jul 27 16:17:43 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 5.02 min Scan# 727

Delta R.T. -0.01 min

Lab File: VX003900.D

Acq: 08 Aug 2018 00:58

Instrument :

MSVOA_X

ClientSampleId :

DSN002-SEWER-OUTLET-002

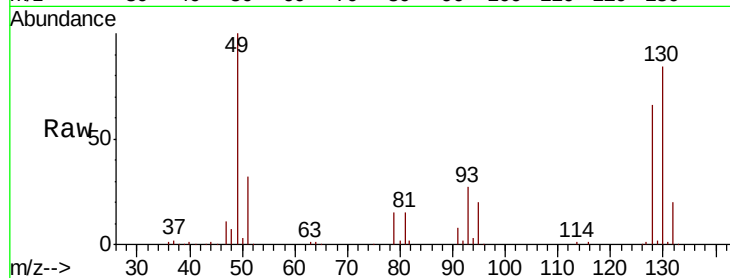
Tot Ion:128 Resp: 66224

Ion Ratio Lower Upper

128 100

49 154.8 0.0 423.0

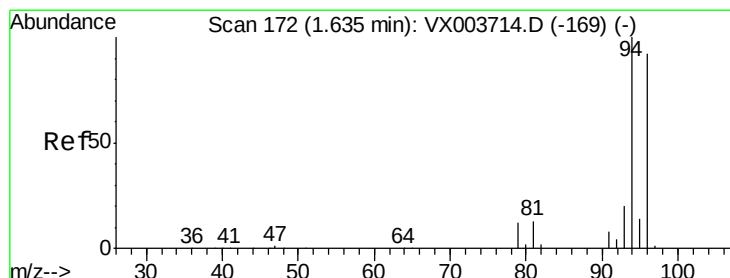
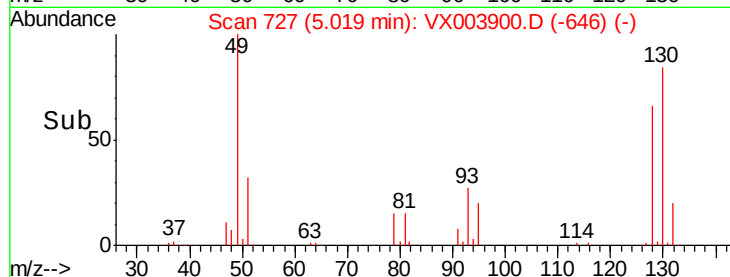
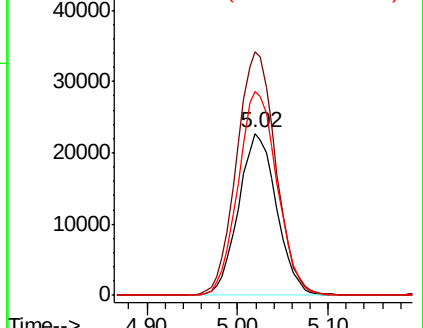
130 129.1 0.0 324.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#5

Bromomethane

Concen: 0.33 ug/l

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX003900.D

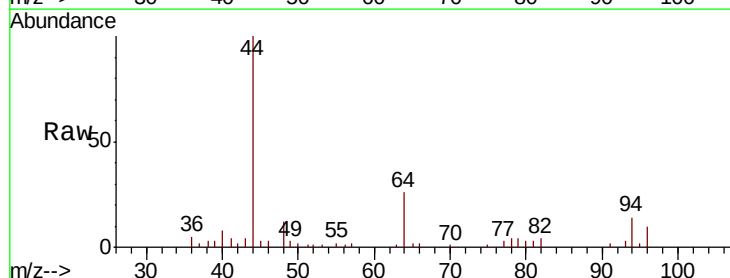
Acq: 08 Aug 2018 00:58

Tgt Ion: 94 Resp: 991

Ion Ratio Lower Upper

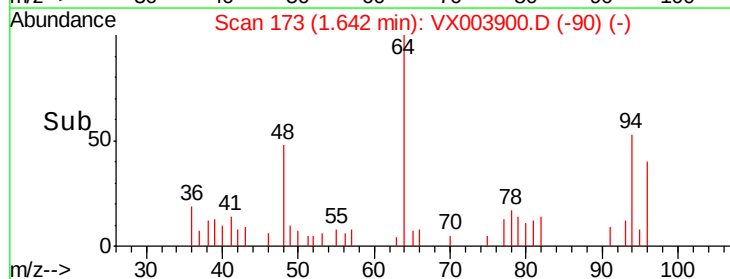
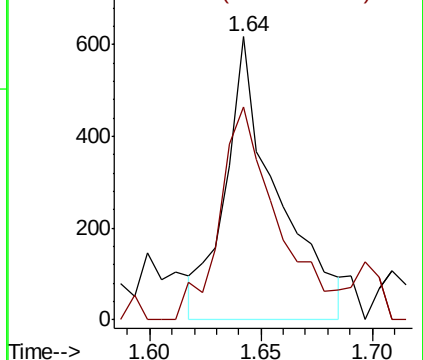
94 100

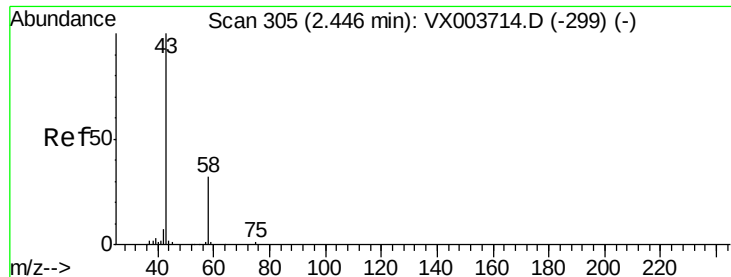
96 76.2 75.7 113.5



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0





#15

Acetone

Concen: 413.80 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003900.D

Acq: 08 Aug 2018 00:58

Instrument :

MSVOA_X

ClientSampleId :

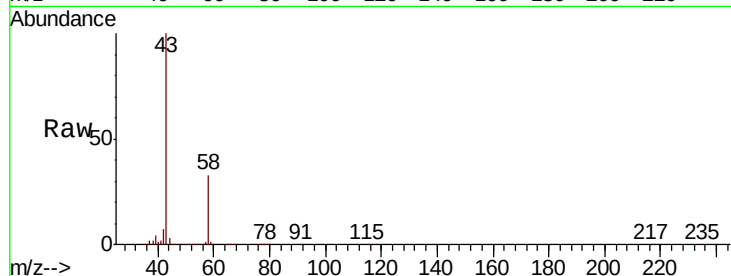
DSN002-SEWER-OUTLET-002

Tot Ion: 58 Resp: 310830

Ion Ratio Lower Upper

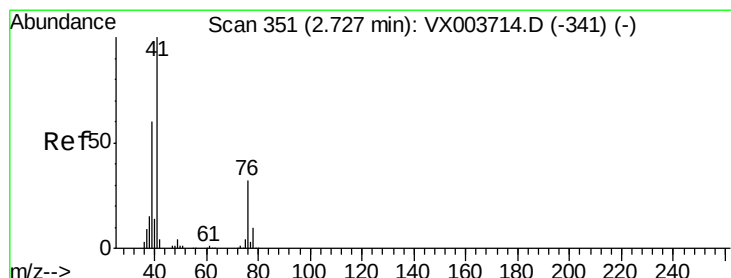
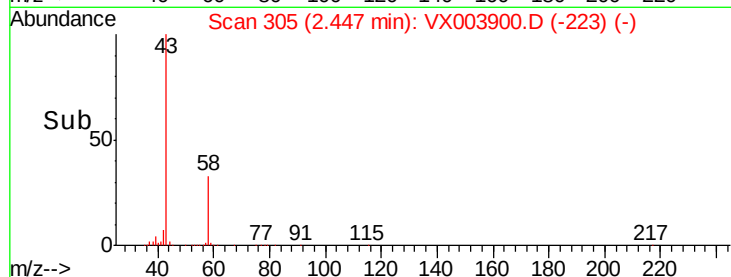
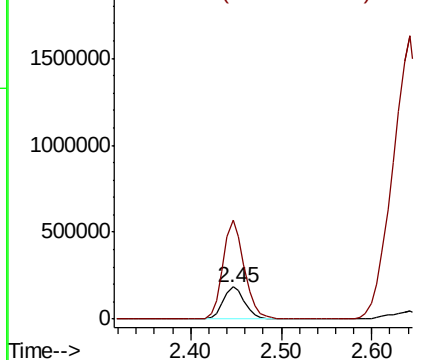
58 100

43 307.1 278.8 418.2



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#17

Allyl chloride

Concen: 166.15 ug/l

RT: 2.64 min Scan# 337

Delta R.T. -0.08 min

Lab File: VX003900.D

Acq: 08 Aug 2018 00:58

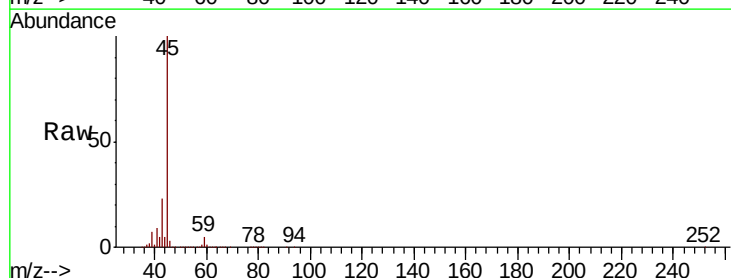
Tgt Ion: 41 Resp: 1305555

Ion Ratio Lower Upper

41 100

39 78.8 34.6 103.8

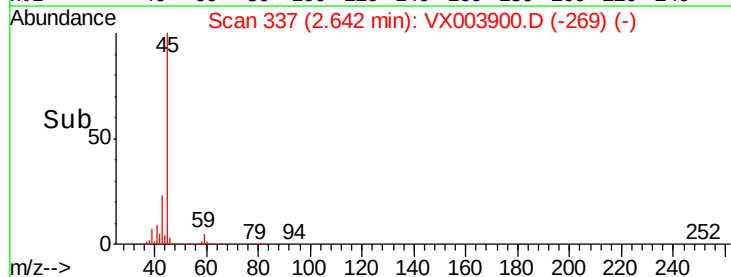
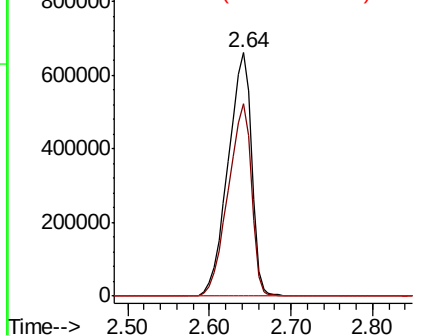
76 0.0 15.0 45.1#

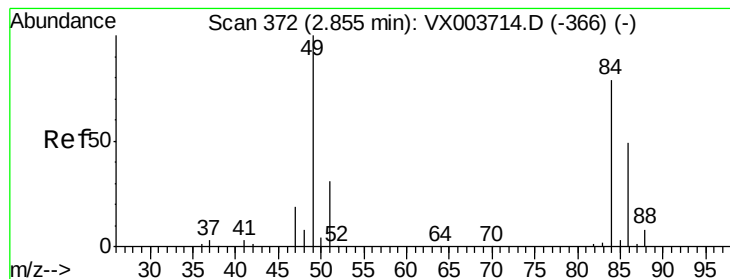


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 76.00 (75.70 to 76.70): VX0





#18

Methylene Chloride

Concen: 0.45 ug/l

RT: 2.86 min Scan# 372

Delta R.T. 0.00 min

Lab File: VX003900.D

Acq: 08 Aug 2018 00:58

Instrument :

MSVOA_X

ClientSampleId :

DSN002-SEWER-OUTLET-002

Tot Ion: 84 Resp: 2024

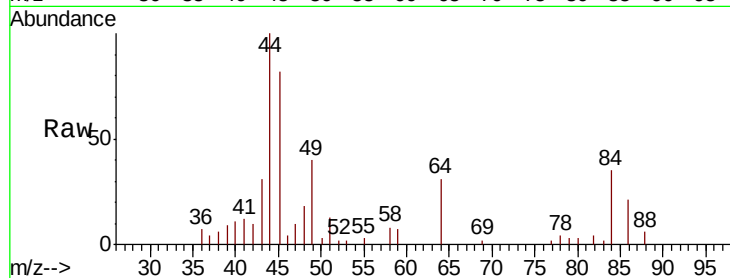
Ion Ratio Lower Upper

84 100

49 106.4 104.7 157.1

51 29.6 31.0 46.4#

86 60.6 50.8 76.2



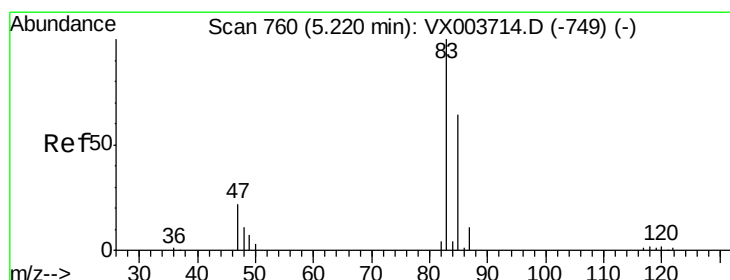
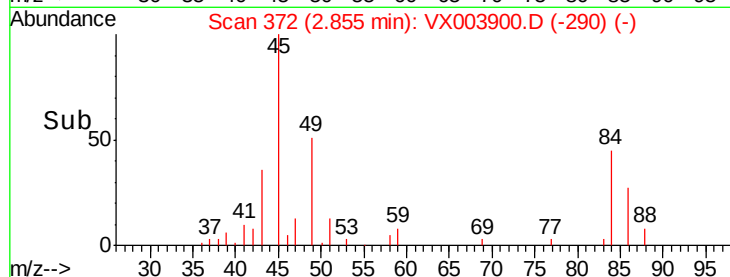
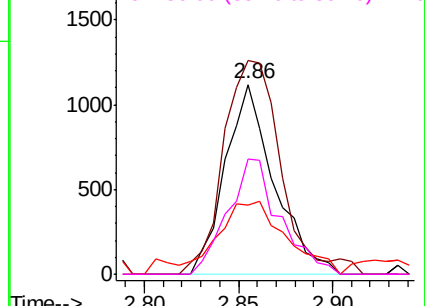
Abundance

Ion 84.00 (83.70 to 84.70): VX0

Ion 49.00 (48.70 to 49.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



#25

Chloroform

Concen: 2.47 ug/l

RT: 5.22 min Scan# 760

Delta R.T. 0.00 min

Lab File: VX003900.D

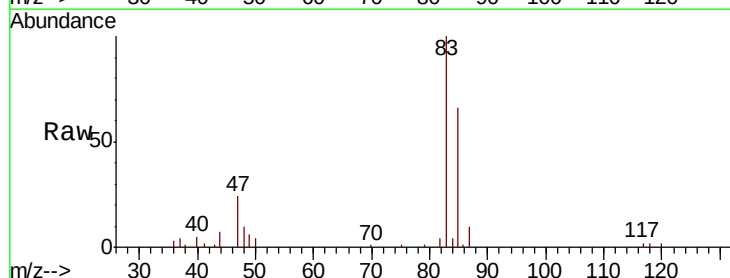
Acq: 08 Aug 2018 00:58

Tgt Ion: 83 Resp: 17491

Ion Ratio Lower Upper

83 100

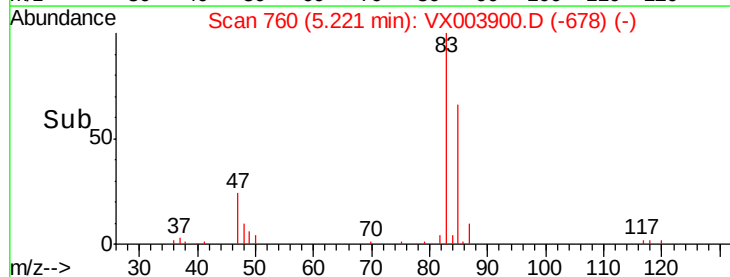
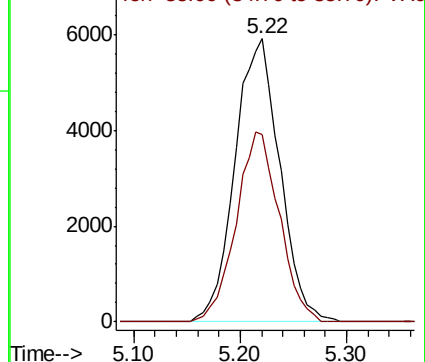
85 66.0 51.9 77.9

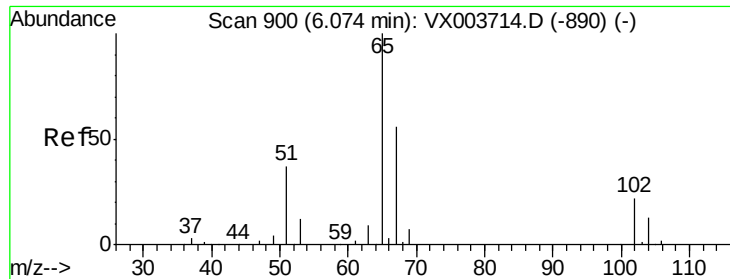


Abundance

Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0





#27

1,2-Dichloroethane-d4

Concen: 29.17 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.01 min

Lab File: VX003900.D

Acq: 08 Aug 2018 00:58

Instrument :

MSVOA_X

ClientSampleId :

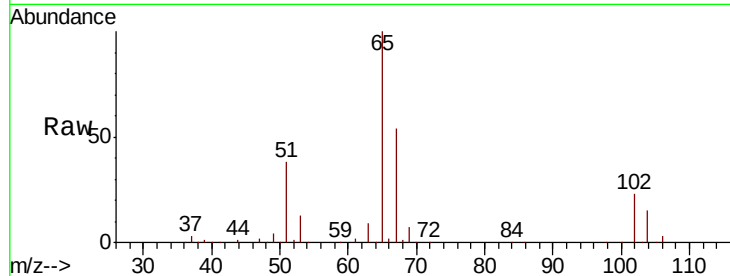
DSN002-SEWER-OUTLET-002

Tot Ion: 65 Resp: 141821

Ion Ratio Lower Upper

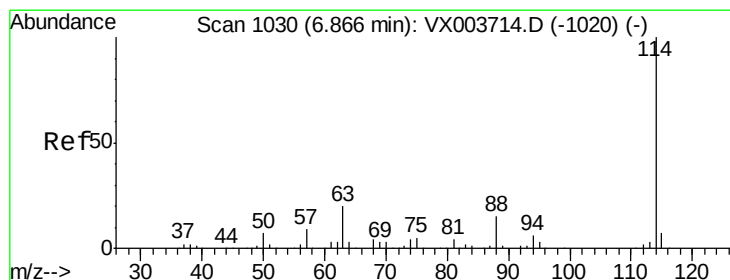
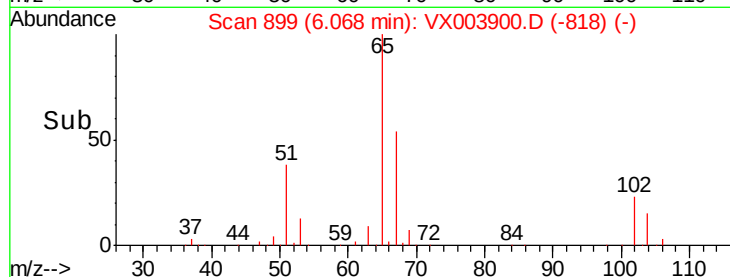
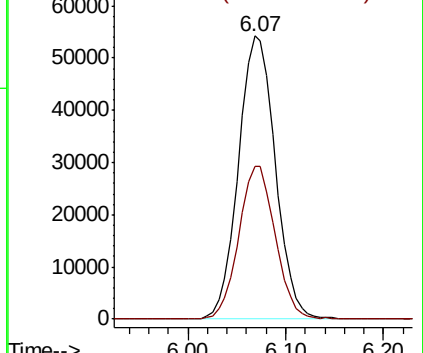
65 100

67 53.2 40.9 61.3



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX003900.D

Acq: 08 Aug 2018 00:58

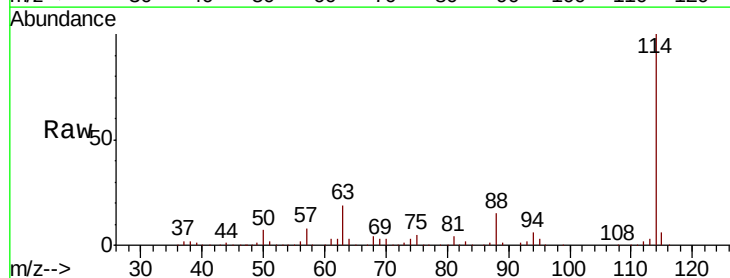
Tgt Ion: 114 Resp: 344911

Ion Ratio Lower Upper

114 100

63 20.0 17.1 25.7

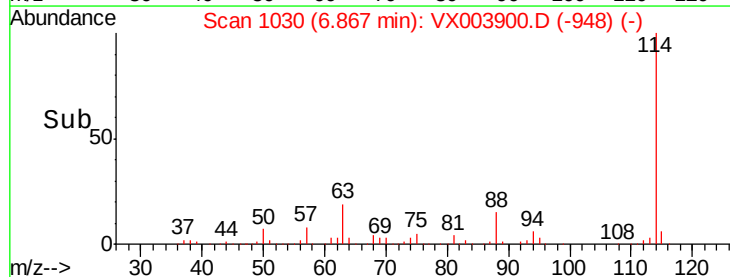
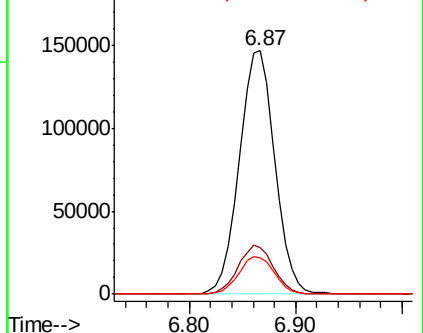
88 15.6 12.6 19.0

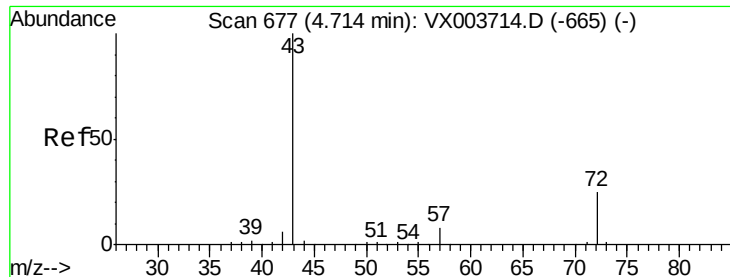


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

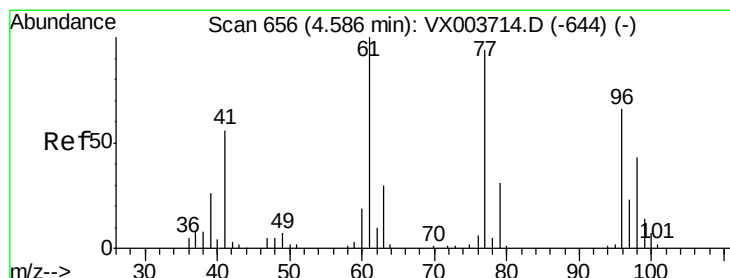
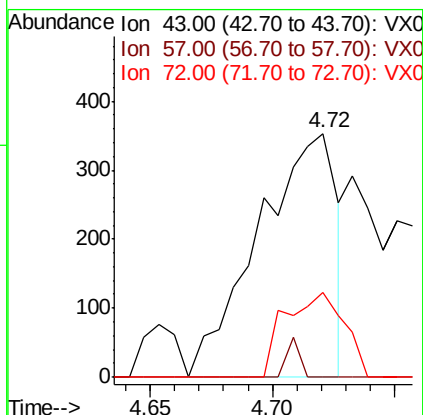
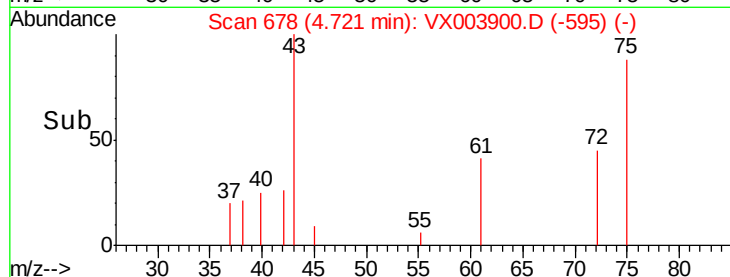
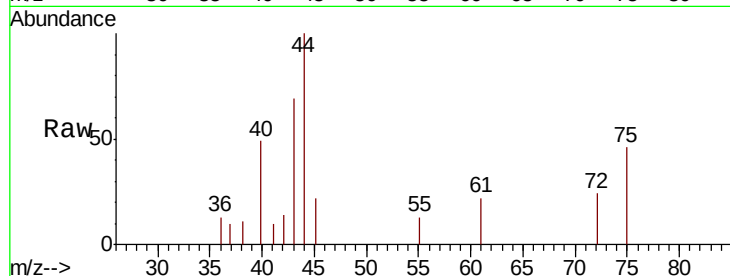




#30
2-Butanone
Concen: 0.24 ug/l
RT: 4.72 min Scan# 678
Delta R.T. 0.01 min
Lab File: VX003900.D
Acq: 08 Aug 2018 00:58

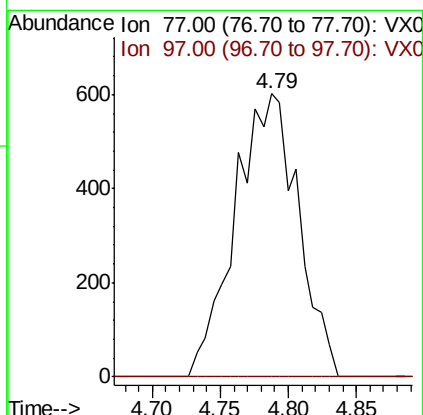
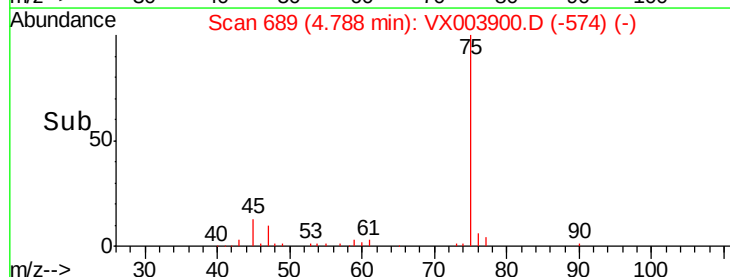
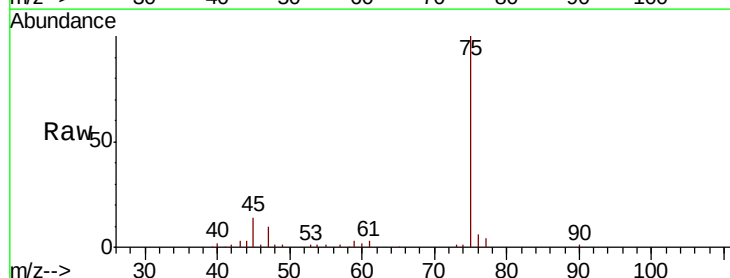
Instrument :
MSVOA_X
ClientSampleId :
DSN002-SEWER-OUTLET-002

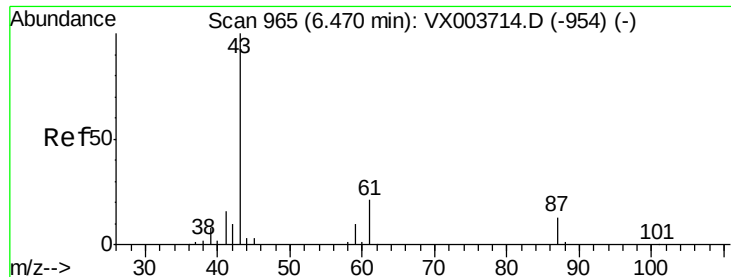
Tot Ion: 43 Resp: 790
Ion Ratio Lower Upper
43 100
57 0.0 6.1 9.1#
72 17.6 18.1 27.1#



#31
2,2-Dichloropropane
Concen: 0.40 ug/l
RT: 4.79 min Scan# 689
Delta R.T. 0.20 min
Lab File: VX003900.D
Acq: 08 Aug 2018 00:58

Tgt Ion: 77 Resp: 1951
Ion Ratio Lower Upper
77 100
97 0.0 18.7 28.1#





#44

Isopropyl Acetate

Concen: 0.22 ug/l

RT: 6.48 min Scan# 966

Delta R.T. 0.01 min

Lab File: VX003900.D

Acq: 08 Aug 2018 00:58

Instrument :

MSVOA_X

ClientSampleId :

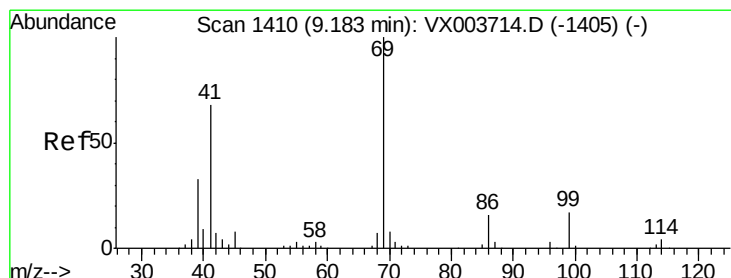
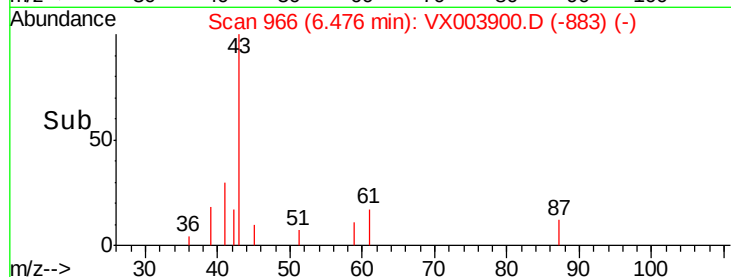
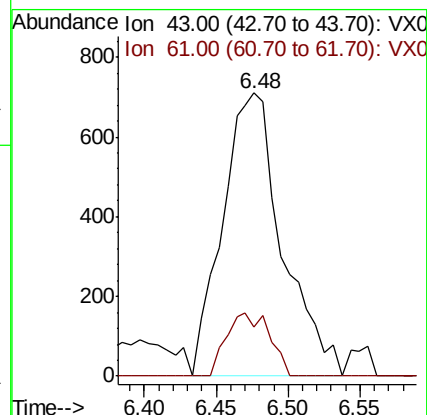
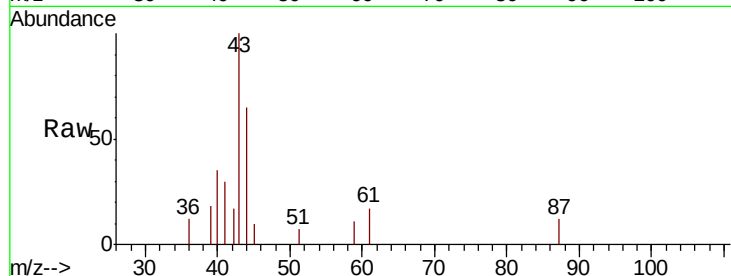
DSN002-SEWER-OUTLET-002

Tot Ion: 43 Resp: 2052

Ion Ratio Lower Upper

43 100

61 16.1 14.5 21.7



#51

Ethyl methacrylate

Concen: 0.21 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.46 min

Lab File: VX003900.D

Acq: 08 Aug 2018 00:58

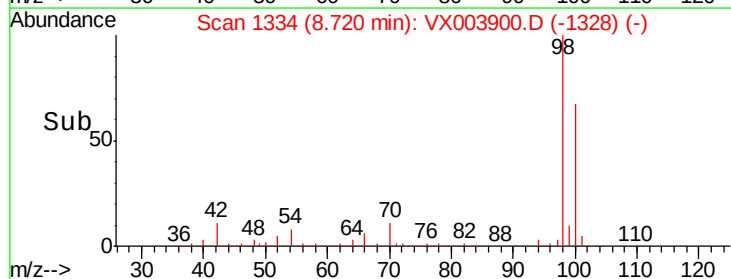
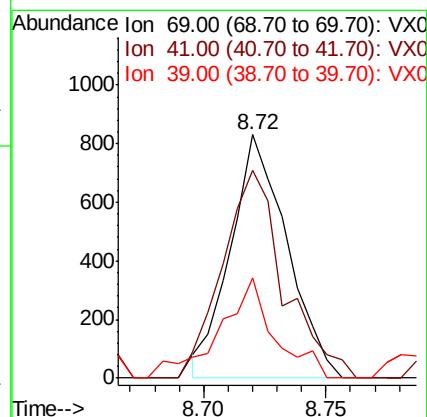
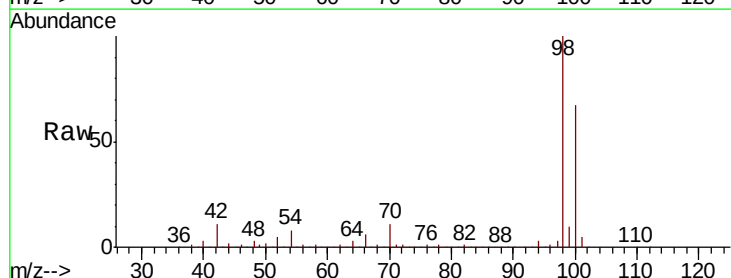
Tgt Ion: 69 Resp: 1329

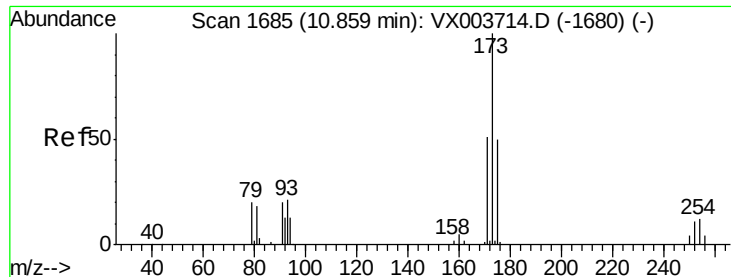
Ion Ratio Lower Upper

69 100

41 77.9 39.1 117.3

39 41.2 21.7 65.1

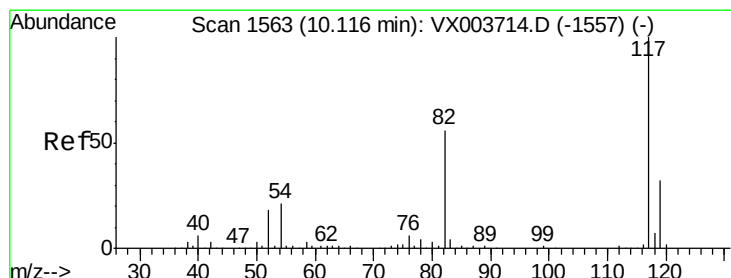
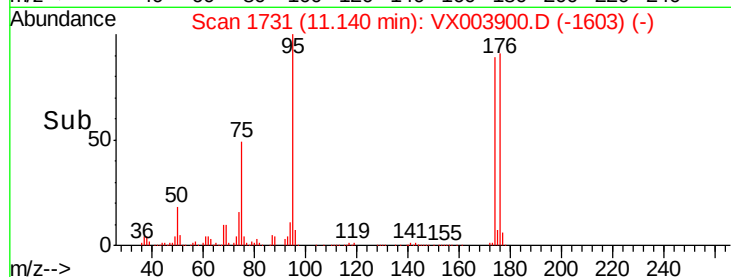
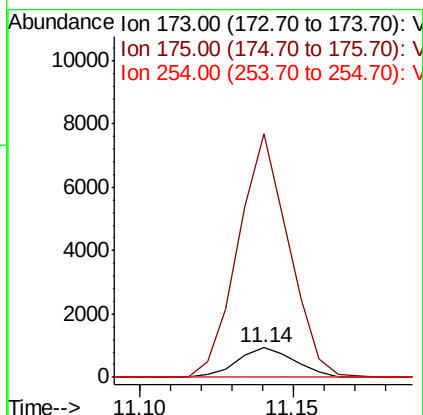
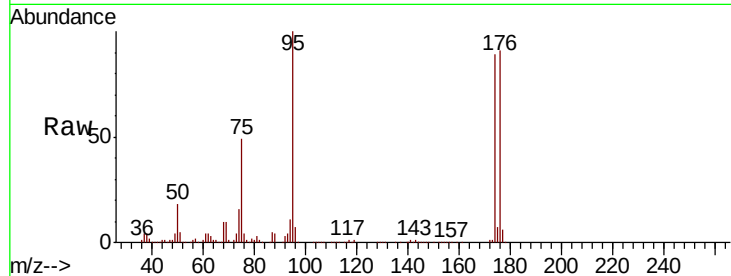




#56
Bromoform
Concen: 0.38 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.28 min
Lab File: VX003900.D
Acq: 08 Aug 2018 00:58

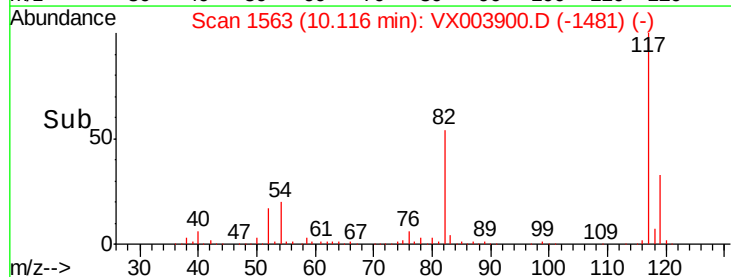
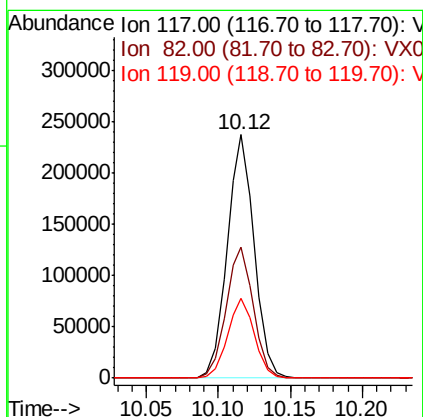
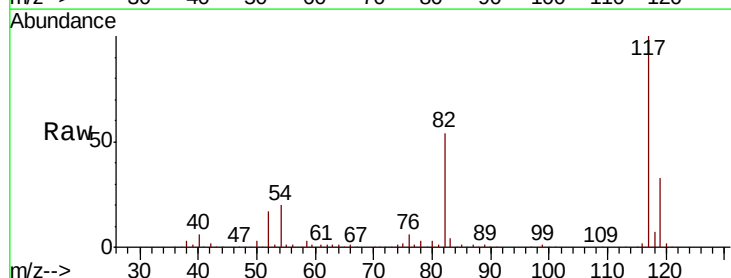
Instrument :
MSVOA_X
ClientSampleId :
DSN002-SEWER-OUTLET-002

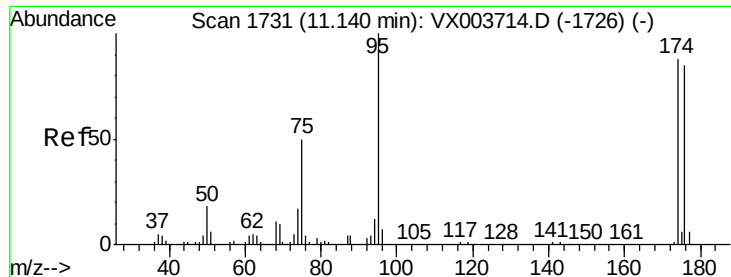
Tot Ion:173 Resp: 1219
Ion Ratio Lower Upper
173 100
175 724.0 39.0 58.4#
254 0.0 9.6 14.4#



#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003900.D
Acq: 08 Aug 2018 00:58

Tgt Ion:117 Resp: 311561
Ion Ratio Lower Upper
117 100
82 54.2 44.3 66.5
119 32.7 25.7 38.5





#60

4-Bromofluorobenzene

Concen: 26.13 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003900.D

Acq: 08 Aug 2018 00:58

Instrument :

MSVOA_X

ClientSampleId :

DSN002-SEWER-OUTLET-002

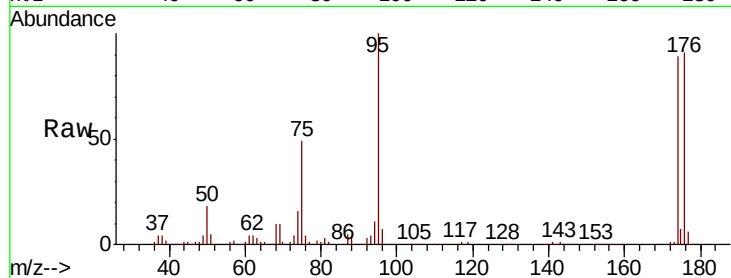
Tot Ion: 95 Resp: 131062

Ion Ratio Lower Upper

95 100

174 91.0 71.8 107.6

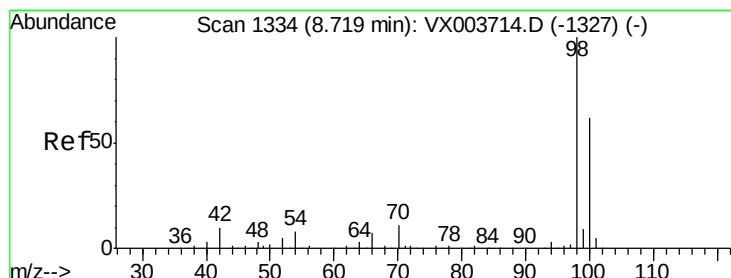
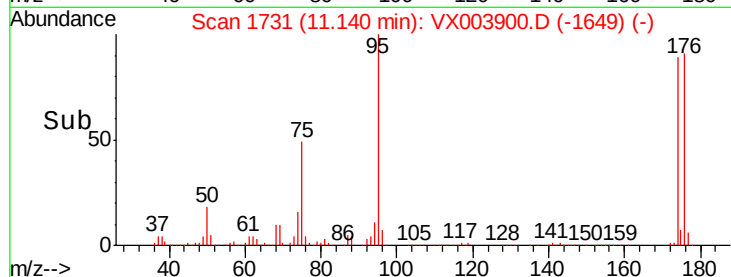
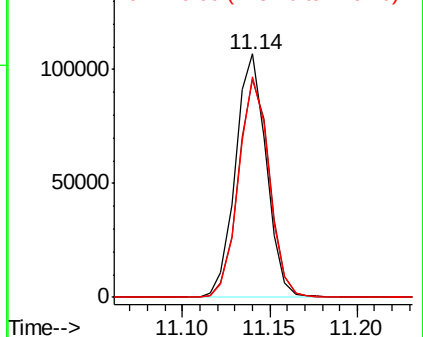
176 89.2 70.1 105.1



Abundance Ion 95.00 (94.70 to 95.70): VX0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Toluene-d8

Concen: 28.74 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003900.D

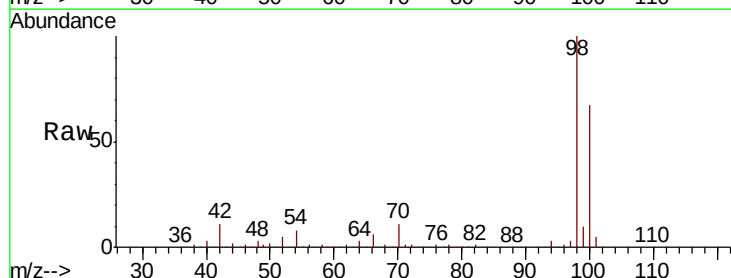
Acq: 08 Aug 2018 00:58

Tgt Ion: 98 Resp: 403432

Ion Ratio Lower Upper

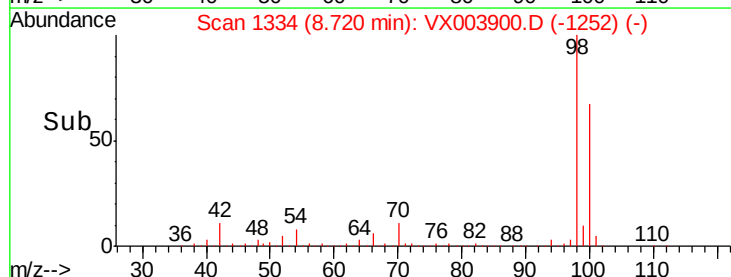
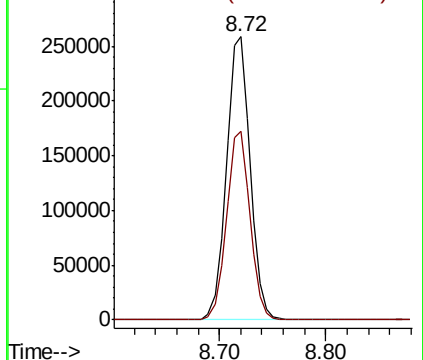
98 100

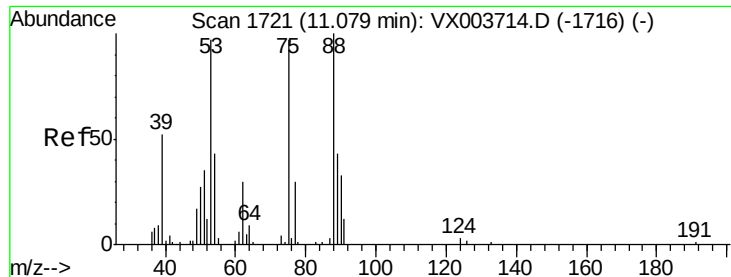
100 66.1 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#77
 t-1,4-Dichloro-2-butene
 Concen: 34.61 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX003900.D
 Acq: 08 Aug 2018 00:58

Instrument :
 MSVOA_X
 ClientSampleId :
 DSN002-SEWER-OUTLET-002

Tot Ion: 75 Resp: 63226
 Ion Ratio Lower Upper
 75 100
 53 0.2 48.3 144.9#
 89 0.0 21.8 65.4#

