

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032719\
 Data File : VX008503.D
 Acq On : 27 Mar 2019 23:12
 Operator : JC/SP
 Sample : K2137-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SEWER-OUTLET-02

Quant Time: Mar 28 02:12:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032719W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Mar 27 12:01:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	34387	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	198594	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	173033	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	88636	30.81	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.70%
60) 4-Bromofluorobenzene	11.13	95	86895	28.82	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.07%
63) Toluene-d8	8.71	98	251210	30.59	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.97%

Target Compounds

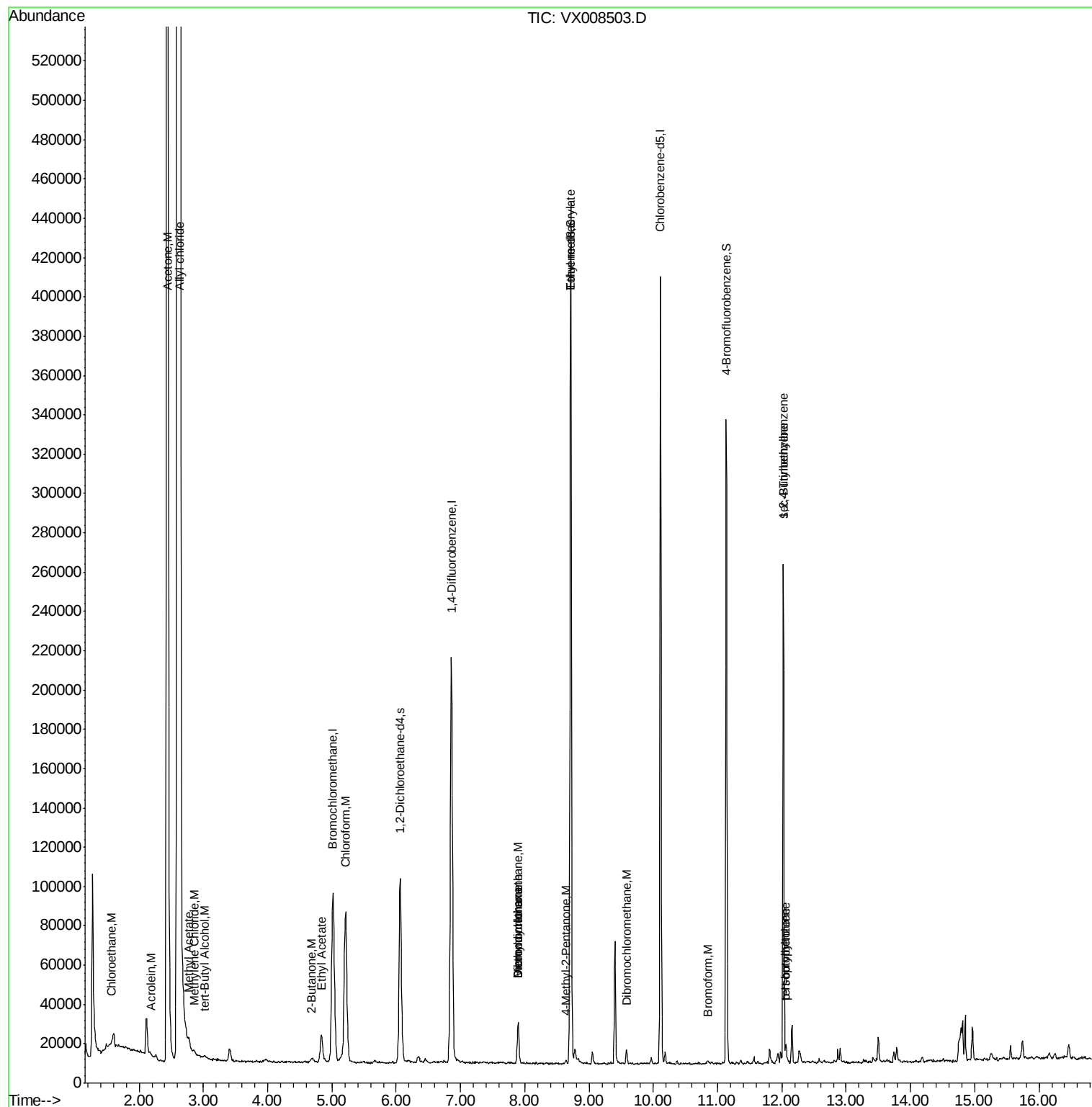
					Ovalue	
6) Chloroethane	1.57	64	859	0.423	ug/l	# 63
12) Methyl Acetate	2.78	43	7542	4.273	ug/l	96
13) Acrolein	2.20	56	108	0.213	ug/l	84
15) Acetone	2.44	58	425573	845.758	ug/l	97
17) Allyl chloride	2.63	41	1370294	279.992	ug/l	# 73
18) Methylene Chloride	2.85	84	557	0.214	ug/l	# 78
23) tert-Butyl Alcohol	3.01	59	437	0.663	ug/l	# 97
25) Chloroform	5.21	83	88495	20.433	ug/l	96
30) 2-Butanone	4.68	43	2820	1.148	ug/l	# 93
38) Methylcyclohexane	7.90	83	12928	3.071	ug/l	# 20
40) Dibromomethane	7.90	93	449	0.268	ug/l	# 1
41) Bromodichloromethane	7.90	83	12928	3.918	ug/l	99
43) Ethyl Acetate	4.83	43	25674	5.806	ug/l	# 82
51) Ethyl methacrylate	8.71	69	1002	0.216	ug/l	86
53) Dibromochloromethane	9.58	129	2445	0.997	ug/l	99
56) Bromoform	10.86	173	503	0.281	ug/l	# 68
58) 4-Methyl-2-Pentanone	8.64	43	1333	0.292	ug/l	# 62
79) tert-butylbenzene	12.06	119	3199	0.334	ug/l	93
80) 1,2,4-Trimethylbenzene	12.02	105	3165	0.339	ug/l	51
81) sec-Butylbenzene	12.02	105	3165	0.296	ug/l	92
82) p-Isopropyltoluene	12.06	119	3199	0.334	ug/l	93

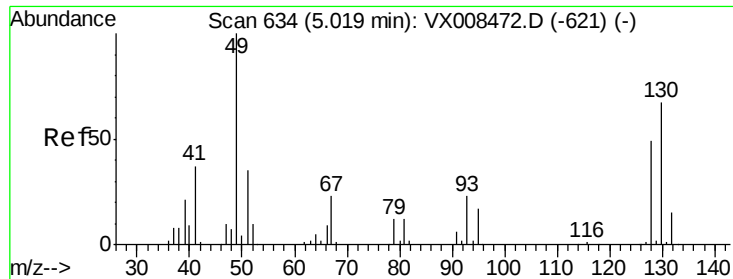
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Mar 27 12:01:15 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 633

Delta R.T. -0.01 min

Lab File: VX008503.D

Acq: 27 Mar 2019 23:12

Instrument :

MSVOA_X

ClientSampleId :

SEWER-OUTLET-02

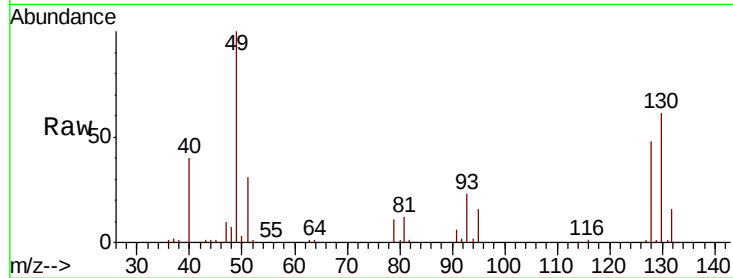
Tot Ion:128 Resp: 34387

Ion Ratio Lower Upper

128 100

49 208.6 0.0 350.8

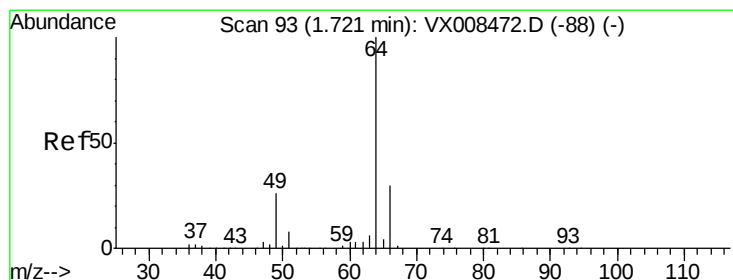
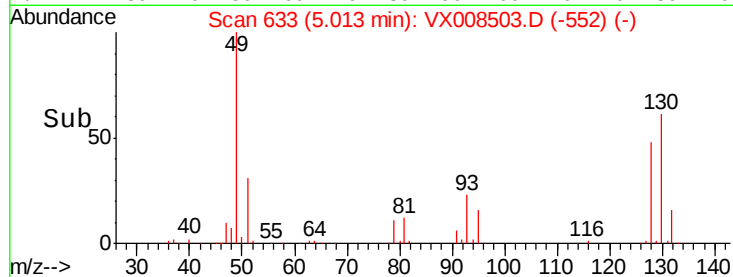
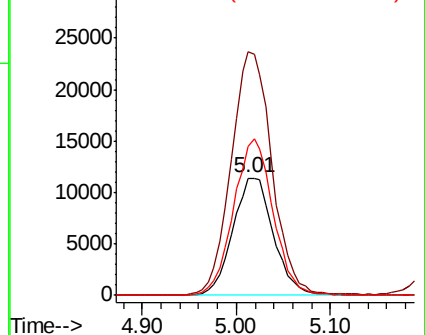
130 130.1 0.0 325.8



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



#6

Chloroethane

Concen: 0.423 ug/l

RT: 1.57 min Scan# 68

Delta R.T. -0.15 min

Lab File: VX008503.D

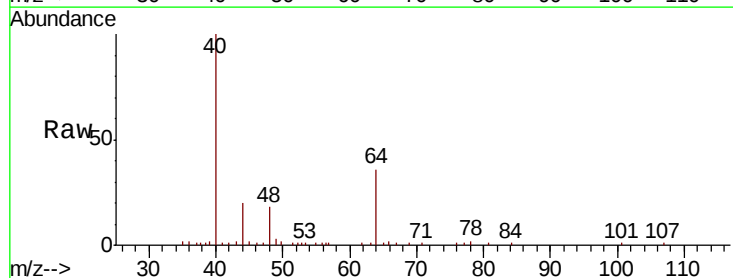
Acq: 27 Mar 2019 23:12

Tgt Ion: 64 Resp: 859

Ion Ratio Lower Upper

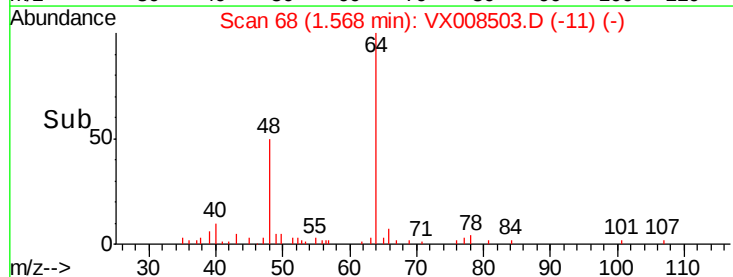
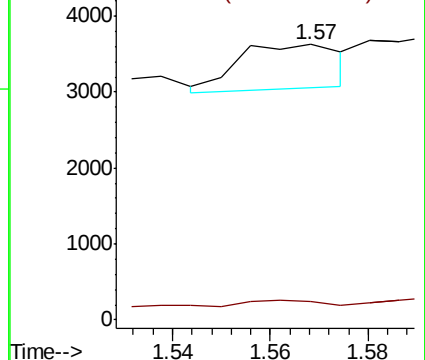
64 100

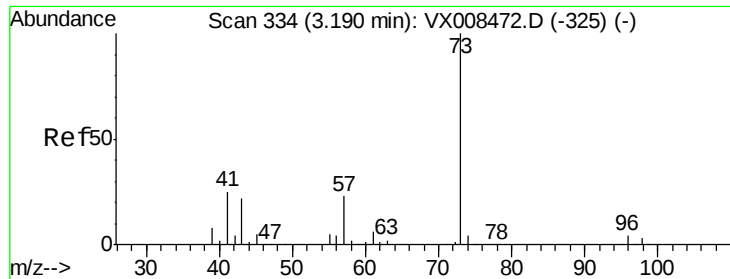
66 9.7 23.9 35.9#



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0

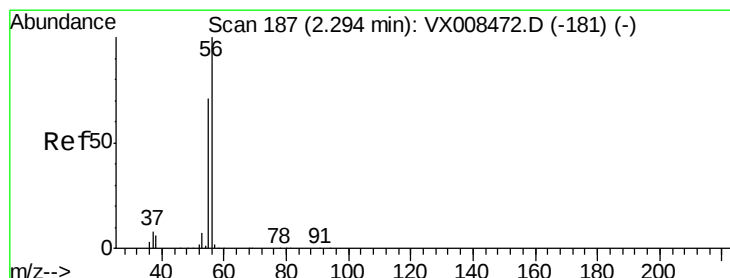
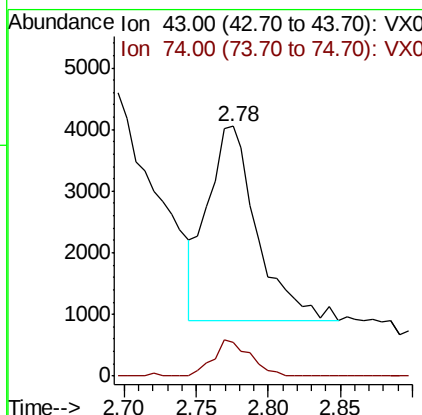
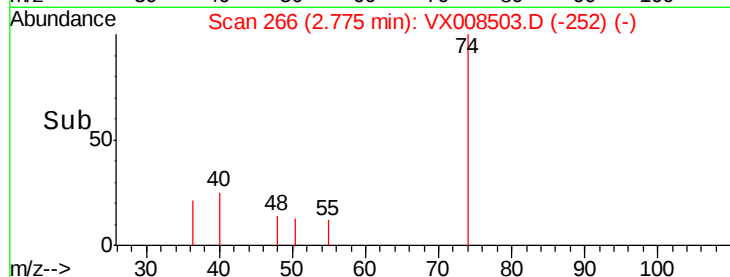
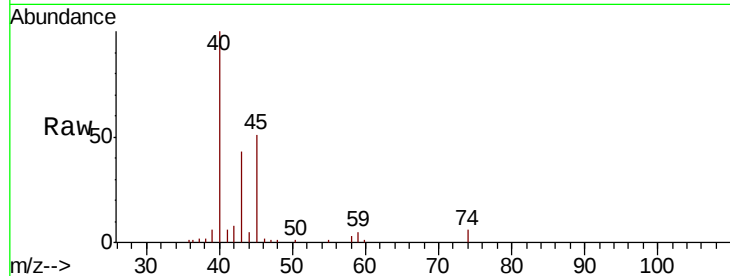




#12
Methvl Acetate
Concen: 4.273 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.41 min
Lab File: VX008503.D
Acq: 27 Mar 2019 23:12

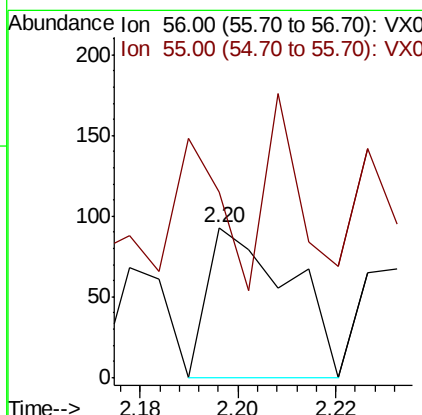
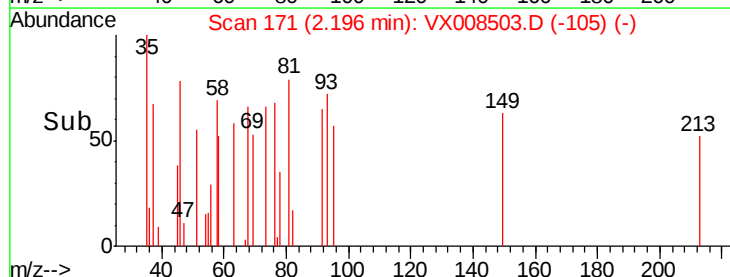
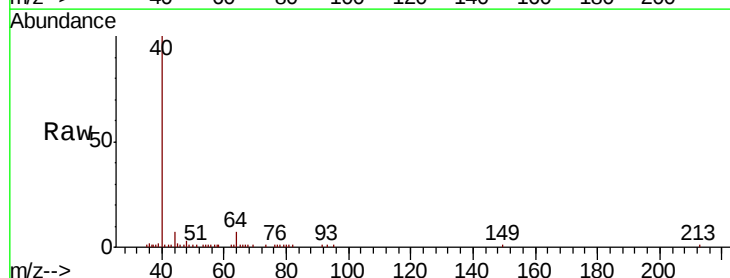
Instrument :
MSVOA_X
ClientSampleId :
SEWER-OUTLET-02

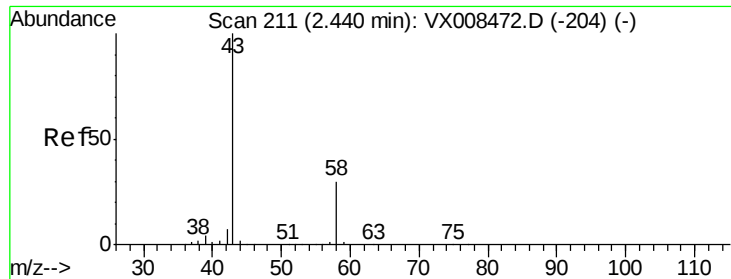
Tot Ion: 43 Resp: 7542
Ion Ratio Lower Upper
43 100
74 22.3 19.4 29.0



#13
Acrolein
Concen: 0.213 ug/l
RT: 2.20 min Scan# 171
Delta R.T. -0.10 min
Lab File: VX008503.D
Acq: 27 Mar 2019 23:12

Tgt Ion: 56 Resp: 108
Ion Ratio Lower Upper
56 100
55 87.0 58.6 87.8





#15

Acetone

Concen: 845.758 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX008503.D

Acq: 27 Mar 2019 23:12

Instrument :

MSVOA_X

ClientSampleId :

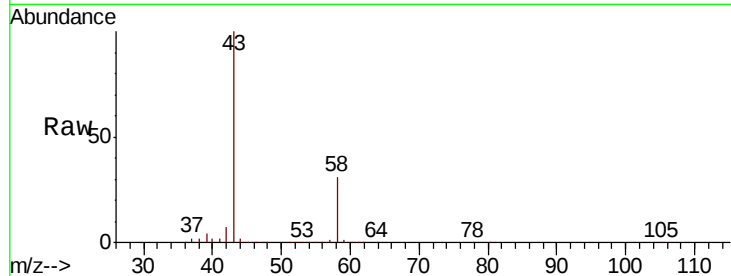
SEWER-OUTLET-02

Tot Ion: 58 Resp: 425573

Ion Ratio Lower Upper

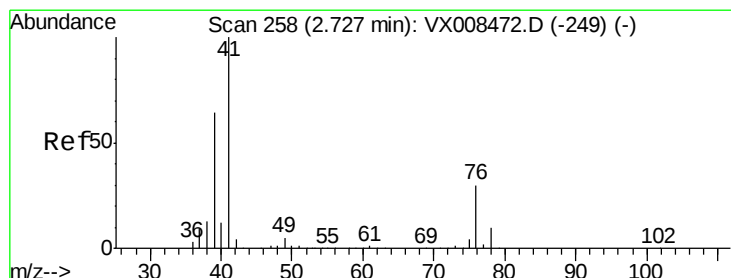
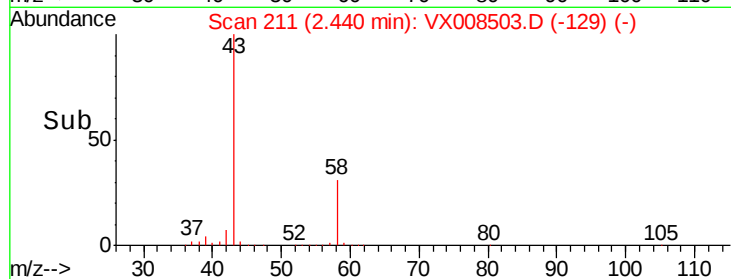
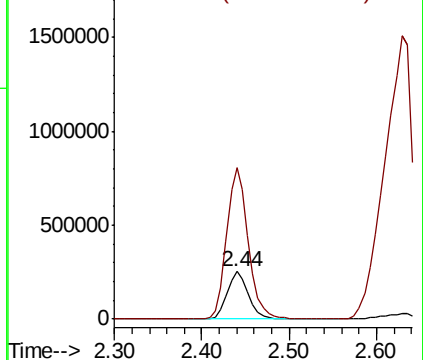
58 100

43 319.0 249.8 374.6



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#17

Allyl chloride

Concen: 279.992 ug/l

RT: 2.63 min Scan# 242

Delta R.T. -0.10 min

Lab File: VX008503.D

Acq: 27 Mar 2019 23:12

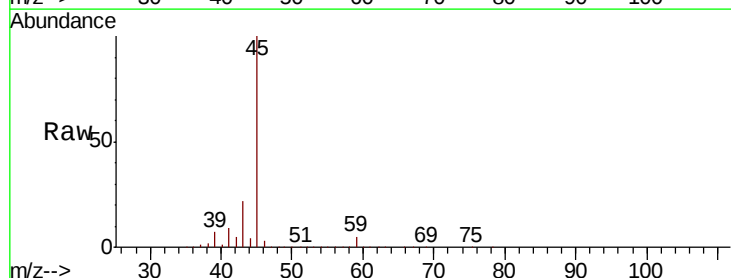
Tgt Ion: 41 Resp: 1370294

Ion Ratio Lower Upper

41 100

39 79.1 35.8 107.4

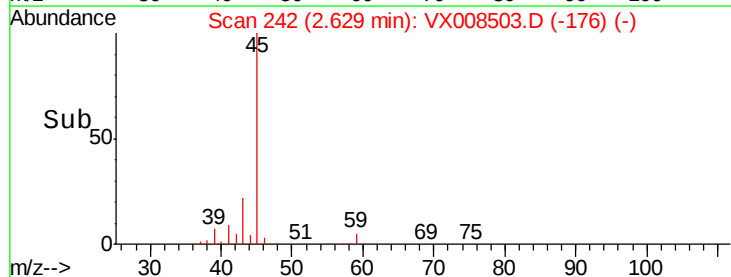
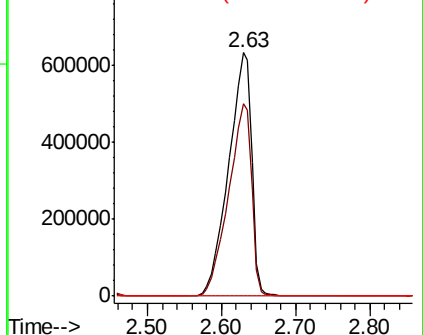
76 0.0 18.3 54.9#

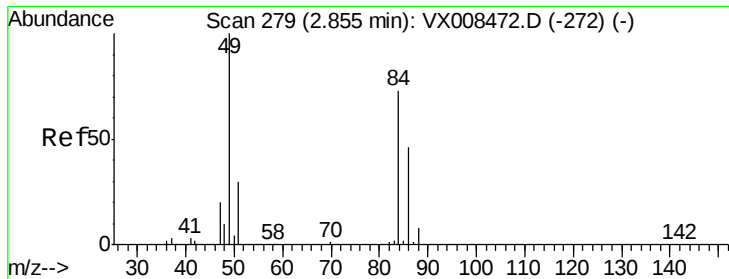


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 76.00 (75.70 to 76.70): VX0

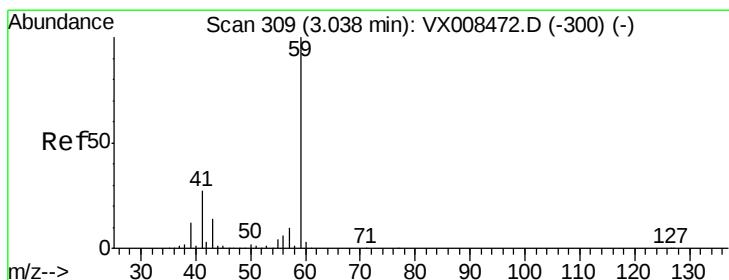
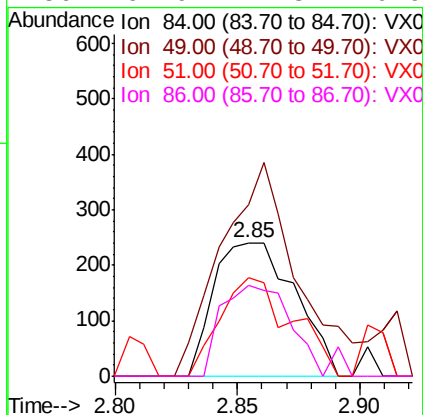
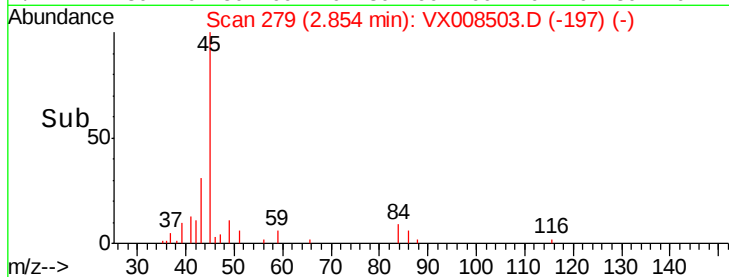
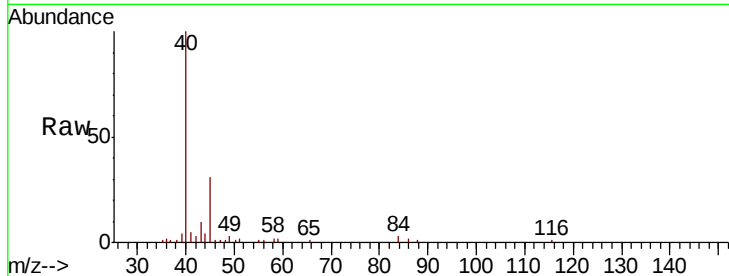




#18
Methvlene Chloride
Concen: 0.214 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX008503.D
Acq: 27 Mar 2019 23:12

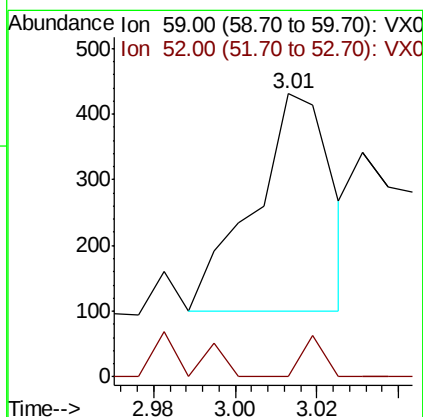
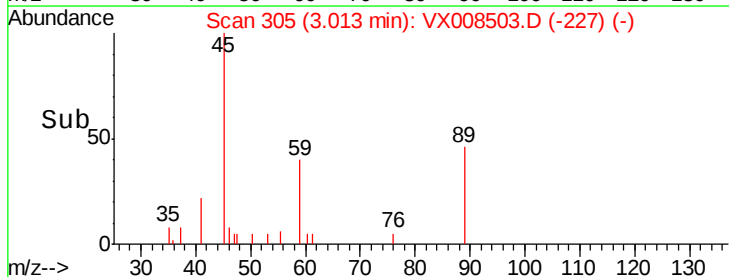
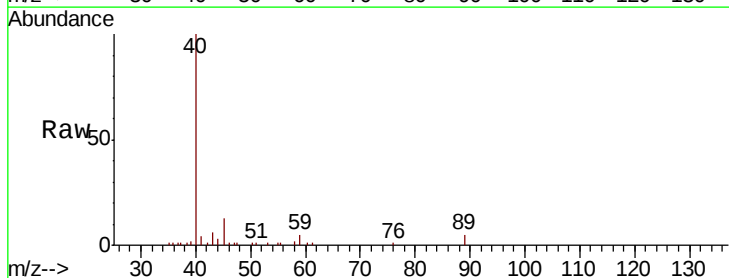
Instrument :
MSVOA_X
ClientSampleId :
SEWER-OUTLET-02

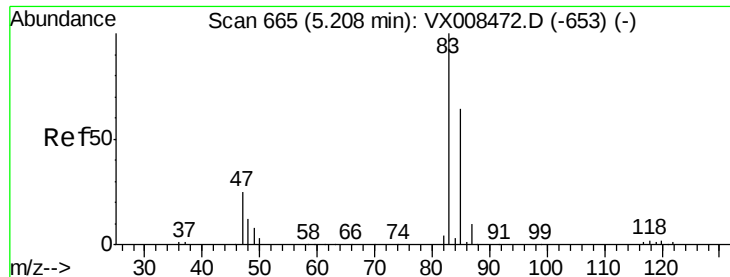
Tot Ion: 84 Resp: 557
Ion Ratio Lower Upper
84 100
49 103.8 96.1 144.1
51 74.2 29.1 43.7#
86 67.9 47.3 70.9



#23
tert-Butyl Alcohol
Concen: 0.663 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.02 min
Lab File: VX008503.D
Acq: 27 Mar 2019 23:12

Tgt Ion: 59 Resp: 437
Ion Ratio Lower Upper
59 100
52 4.3 0.2 0.2#

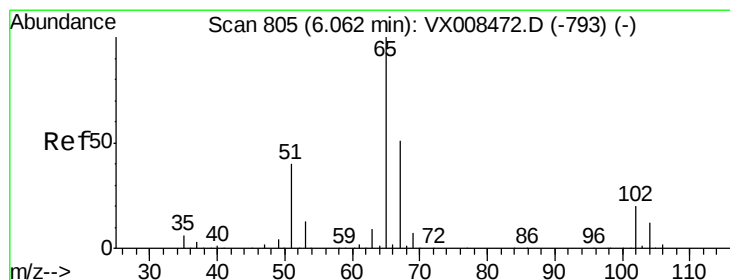
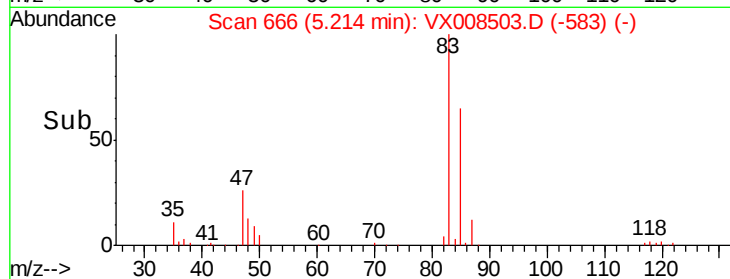
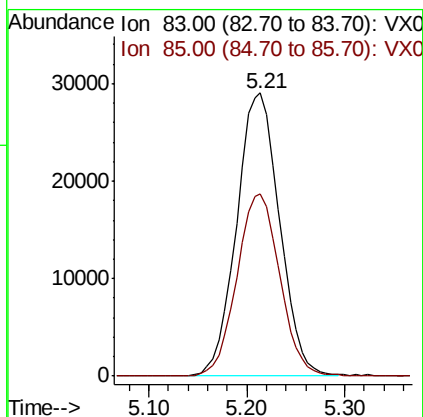
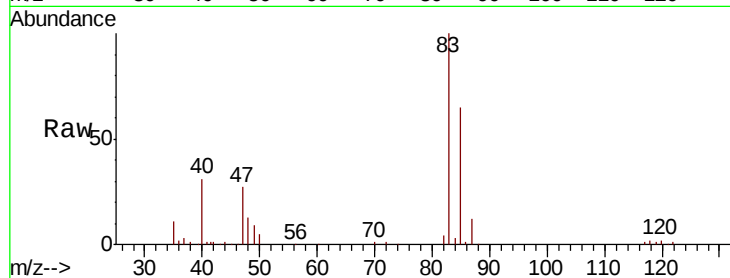




#25
Chloroform
Concen: 20.433 ug/l
RT: 5.21 min Scan# 666
Delta R.T. 0.01 min
Lab File: VX008503.D
Acq: 27 Mar 2019 23:12

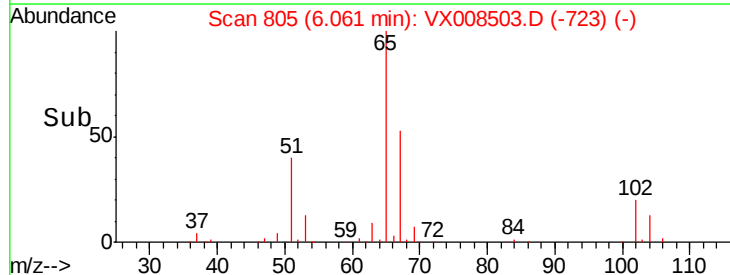
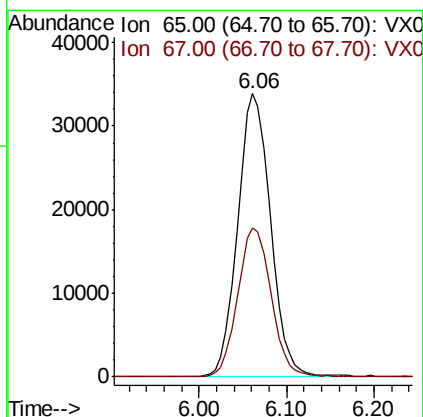
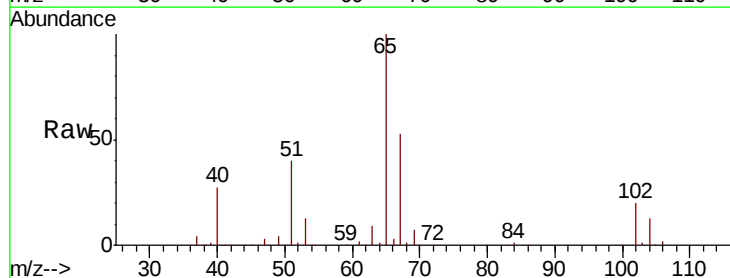
Instrument :
MSVOA_X
ClientSampleId :
SEWER-OUTLET-02

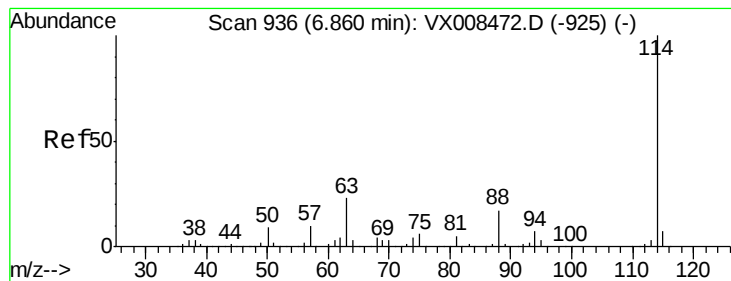
Tot Ion: 83 Resp: 88495
Ion Ratio Lower Upper
83 100
85 64.3 53.8 80.6



#27
1,2-Dichloroethane-d4
Concen: 30.812 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX008503.D
Acq: 27 Mar 2019 23:12

Tgt Ion: 65 Resp: 88636
Ion Ratio Lower Upper
65 100
67 53.7 42.9 64.3





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX008503.D

Acq: 27 Mar 2019 23:12

Instrument :

MSVOA_X

ClientSampleId :

SEWER-OUTLET-02

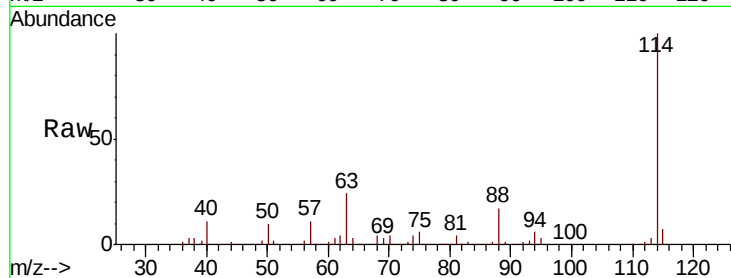
Tot Ion:114 Resp: 198594

Ion Ratio Lower Upper

114 100

63 23.9 14.2 21.4#

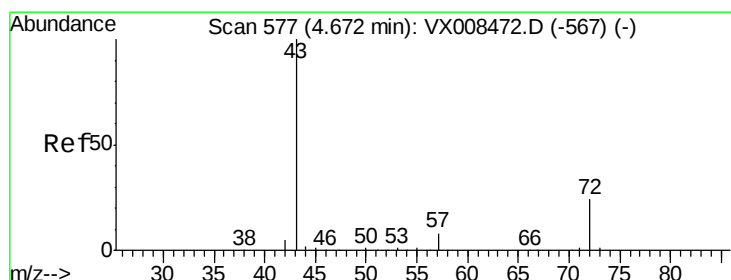
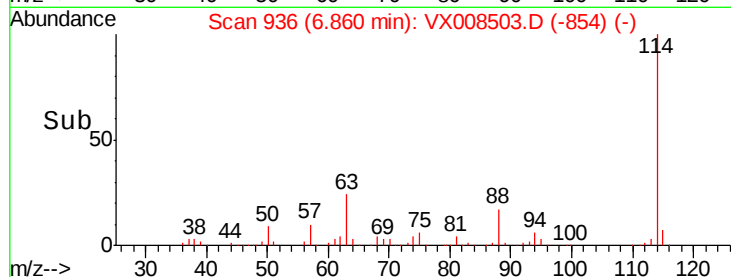
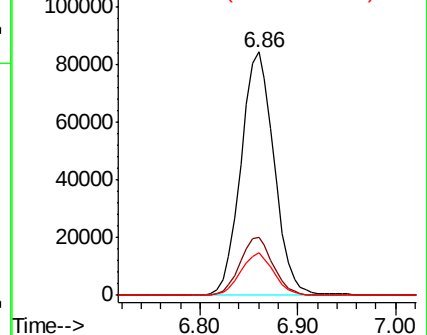
88 17.2 11.9 17.9



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: 1.148 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX008503.D

Acq: 27 Mar 2019 23:12

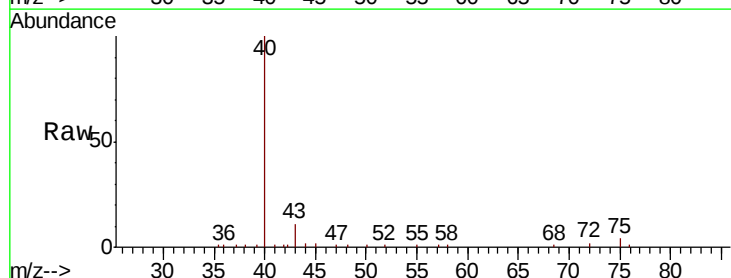
Tgt Ion: 43 Resp: 2820

Ion Ratio Lower Upper

43 100

57 10.6 7.0 10.6#

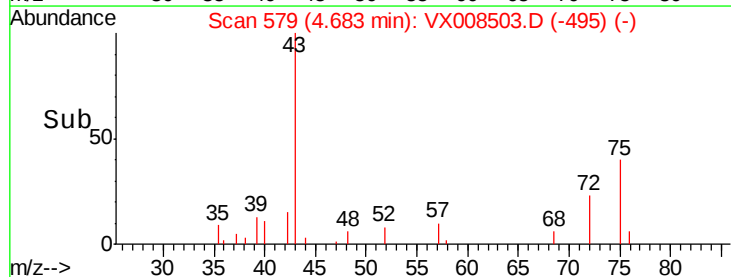
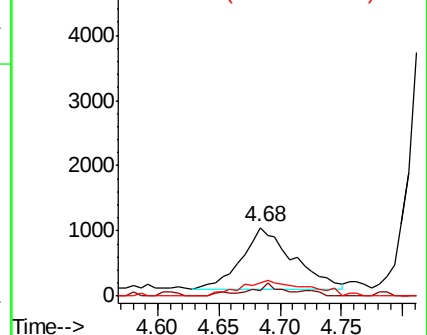
72 23.1 21.5 32.3

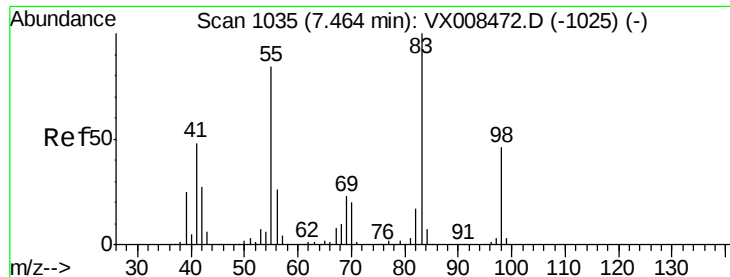


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

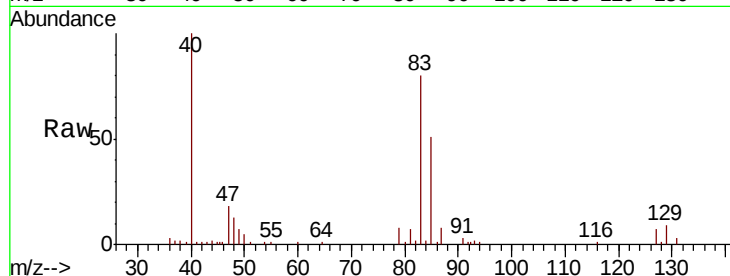




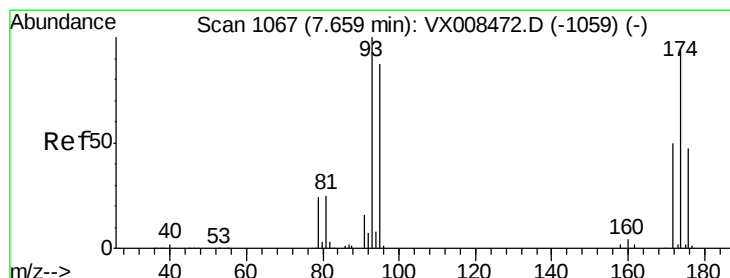
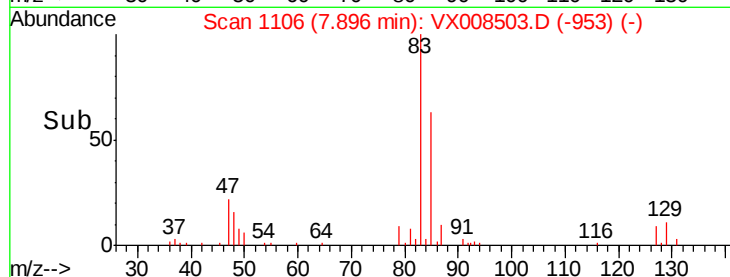
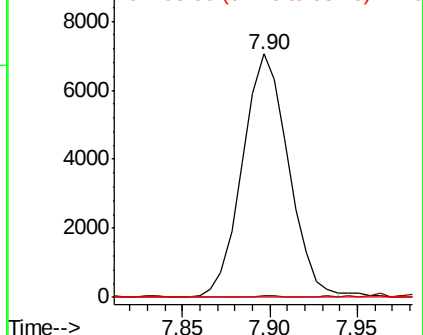
#38
Methvlcvclohexane
Concen: 3.071 ug/l
RT: 7.90 min Scan# 1106
Delta R.T. 0.43 min
Lab File: VX008503.D
Acq: 27 Mar 2019 23:12

Instrument :
MSVOA_X
ClientSampleId :
SEWER-OUTLET-02

Tot Ion: 83 Resp: 12928
Ion Ratio Lower Upper
83 100
55 0.3 36.0 108.0#
98 0.0 23.8 71.4#

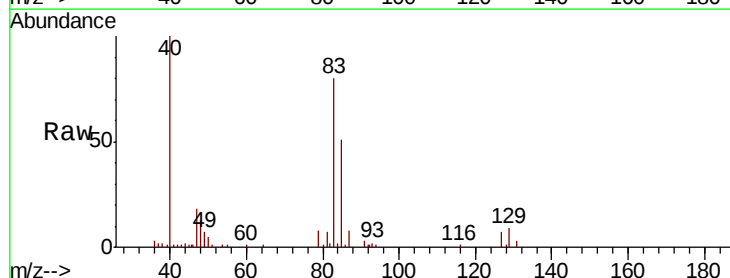


Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

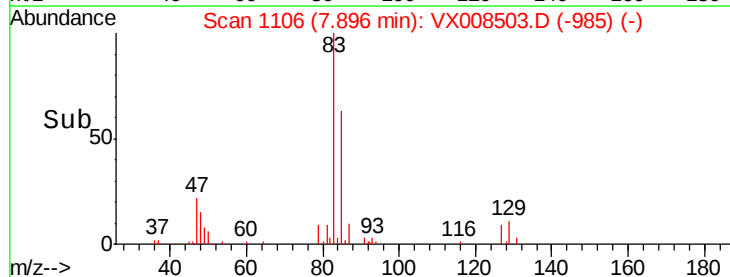
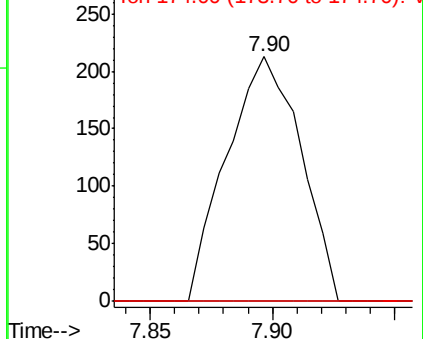


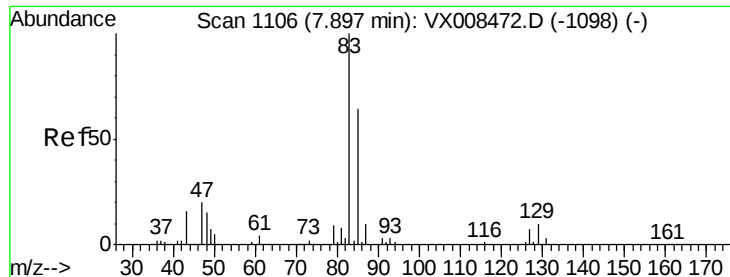
#40
Dibromomethane
Concen: 0.268 ug/l
RT: 7.90 min Scan# 1106
Delta R.T. 0.24 min
Lab File: VX008503.D
Acq: 27 Mar 2019 23:12

Tgt Ion: 93 Resp: 449
Ion Ratio Lower Upper
93 100
95 0.0 0.0 158.8
174 0.0 0.0 224.2



Abundance Ion 93.00 (92.70 to 93.70): VX0
Ion 95.00 (94.70 to 95.70): VX0
Ion 174.00 (173.70 to 174.70): V





#41

Bromodichloromethane

Concen: 3.918 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VX008503.D

Acq: 27 Mar 2019 23:12

Instrument :

MSVOA_X

ClientSampleId :

SEWER-OUTLET-02

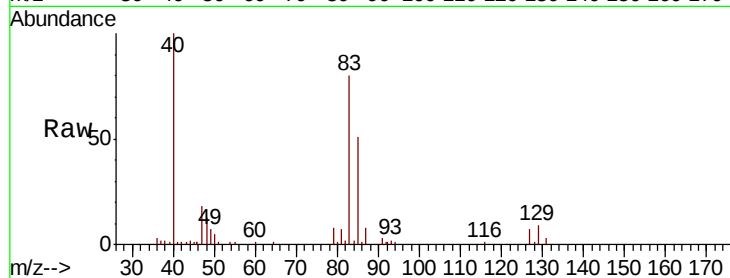
Tot Ion: 83 Resp: 12928

Ion Ratio Lower Upper

83 100

85 63.0 51.1 76.7

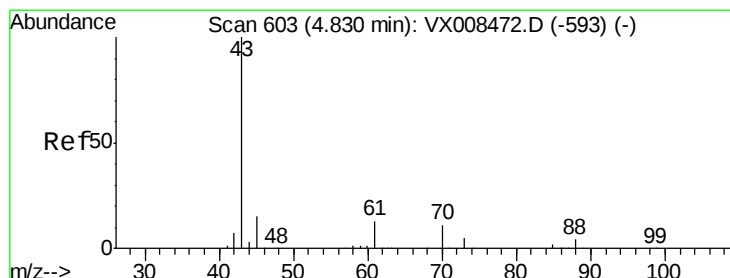
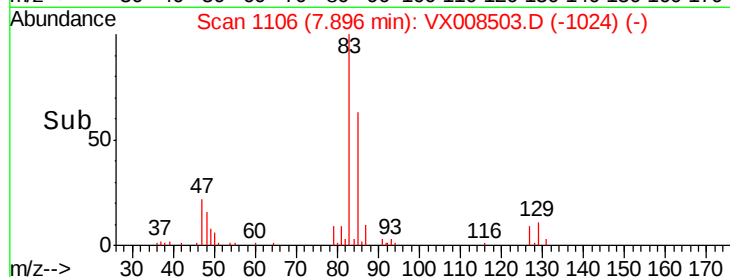
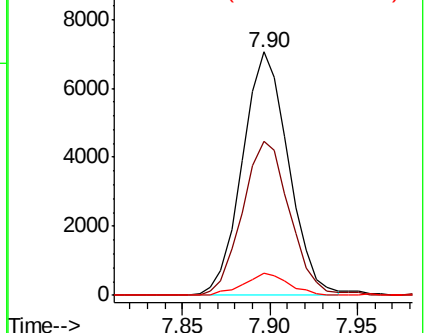
127 9.3 7.2 10.8



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

Ion 127.00 (126.70 to 127.70): V



#43

Ethyl Acetate

Concen: 5.806 ug/l

RT: 4.83 min Scan# 603

Delta R.T. -0.00 min

Lab File: VX008503.D

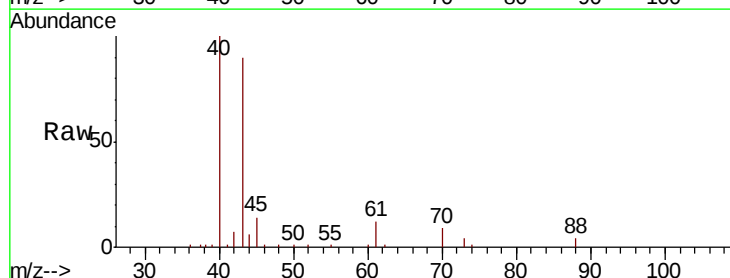
Acq: 27 Mar 2019 23:12

Tgt Ion: 43 Resp: 25674

Ion Ratio Lower Upper

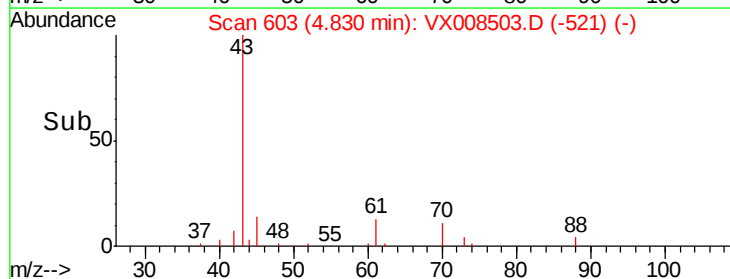
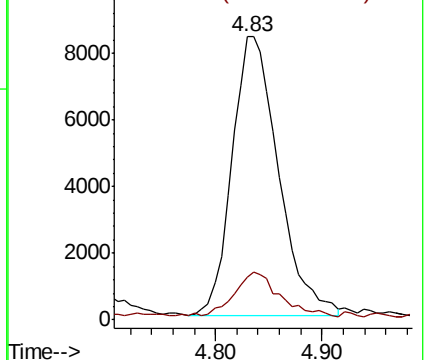
43 100

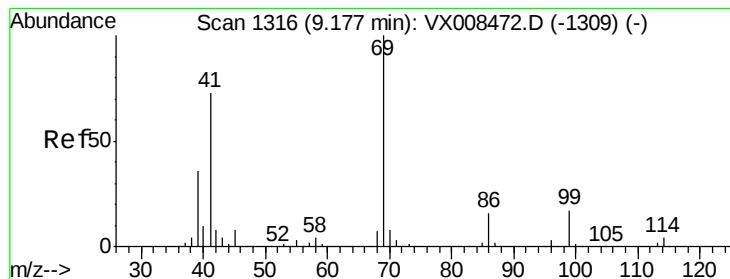
45 15.2 6.9 10.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#51

Ethyl methacrylate

Concen: 0.216 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.46 min

Lab File: VX008503.D

Acq: 27 Mar 2019 23:12

Instrument :

MSVOA_X

ClientSampleId :

SEWER-OUTLET-02

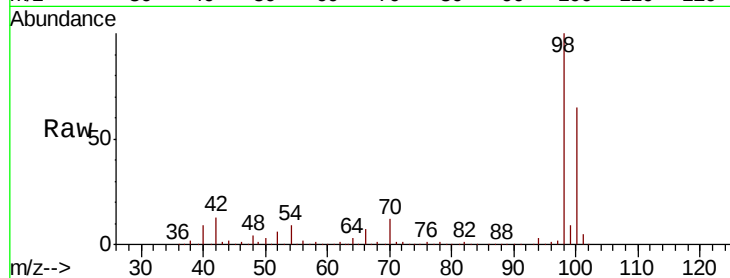
Tot Ion: 69 Resp: 1002

Ion Ratio Lower Upper

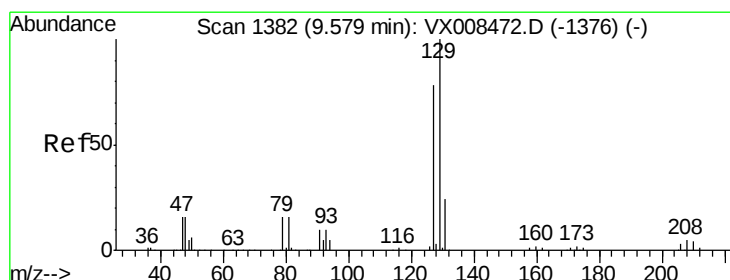
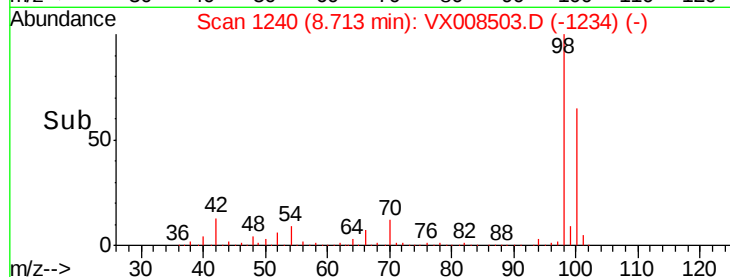
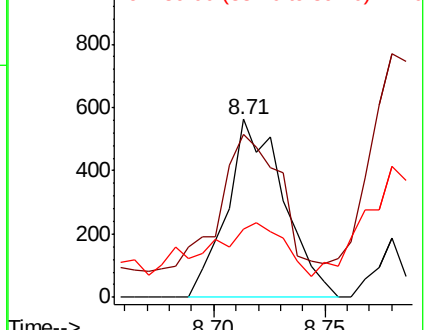
69 100

41 69.3 32.1 96.5

39 20.8 18.8 56.3



Abundance Ion 69.00 (68.70 to 69.70): VX0
Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0



#53

Dibromochloromethane

Concen: 0.997 ug/l

RT: 9.58 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VX008503.D

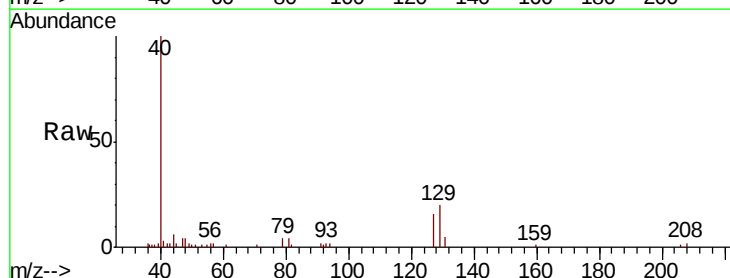
Acq: 27 Mar 2019 23:12

Tgt Ion: 129 Resp: 2445

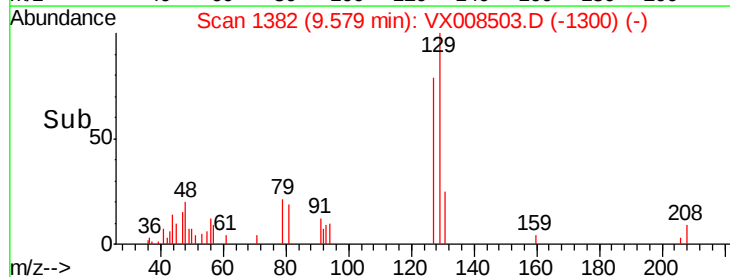
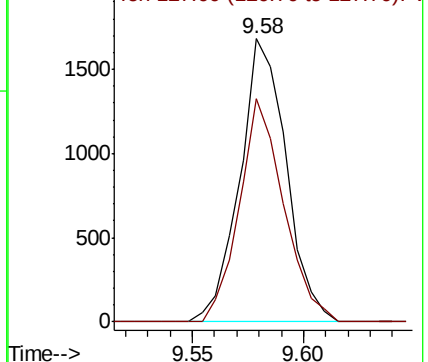
Ion Ratio Lower Upper

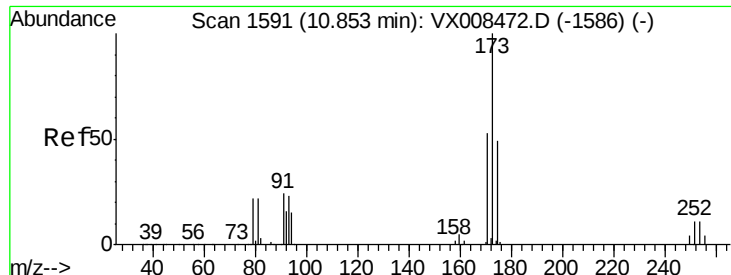
129 100

127 75.5 38.4 115.2



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





#56

Bromoform

Concen: 0.281 ug/l

RT: 10.86 min Scan# 1592

Delta R.T. 0.01 min

Lab File: VX008503.D

Acq: 27 Mar 2019 23:12

Instrument :

MSVOA_X

ClientSampleId :

SEWER-OUTLET-02

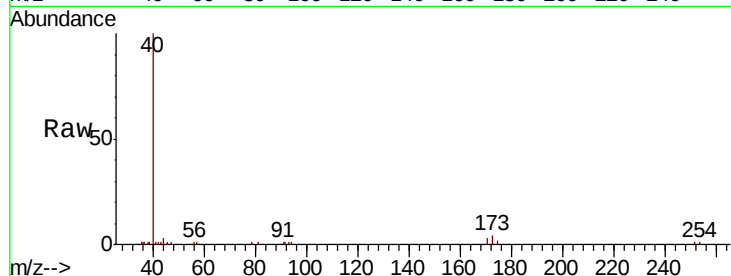
Tot Ion:173 Resp: 503

Ion Ratio Lower Upper

173 100

175 25.2 38.5 57.7#

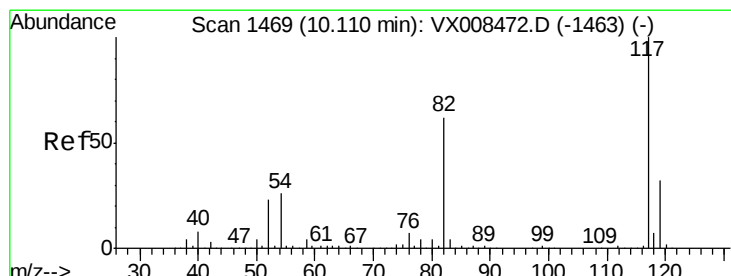
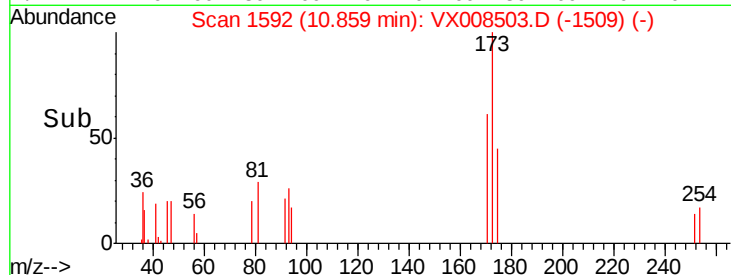
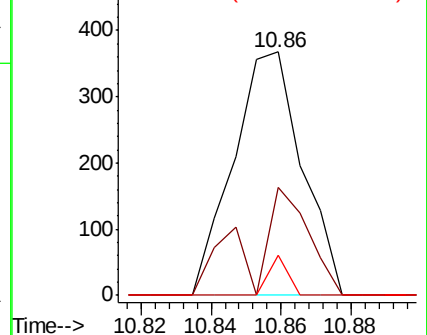
254 0.0 7.4 11.2#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX008503.D

Acq: 27 Mar 2019 23:12

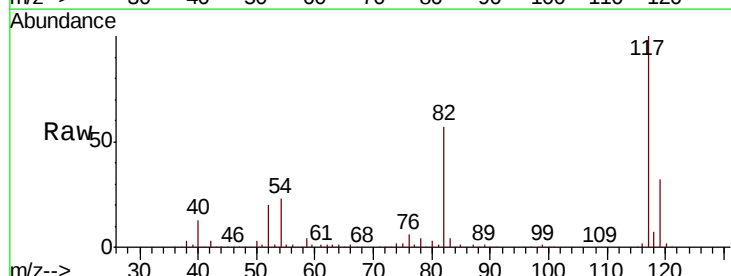
Tgt Ion:117 Resp: 173033

Ion Ratio Lower Upper

117 100

82 60.7 40.4 60.6#

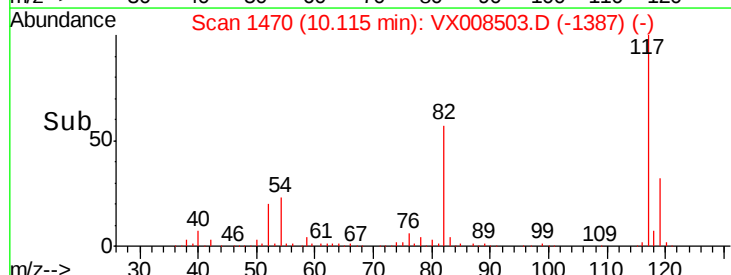
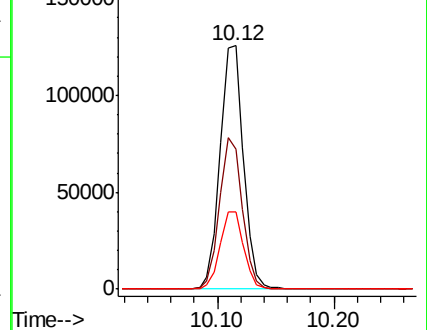
119 32.1 25.8 38.6

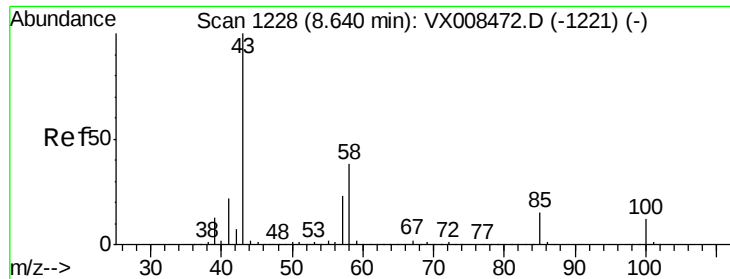


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V

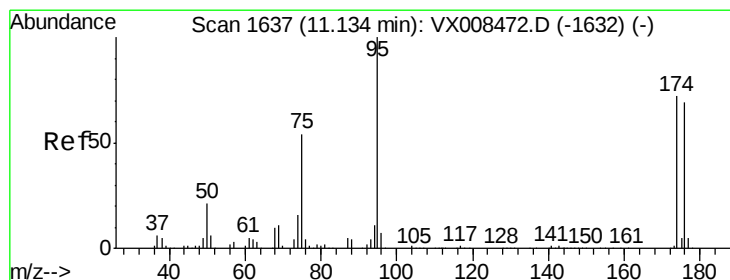
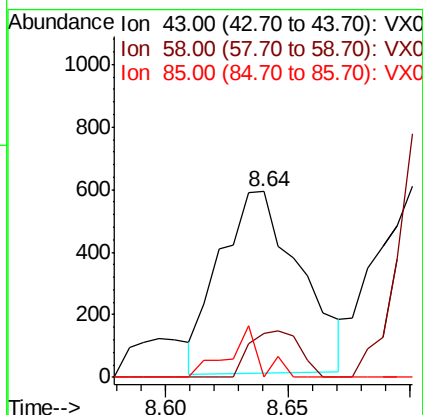
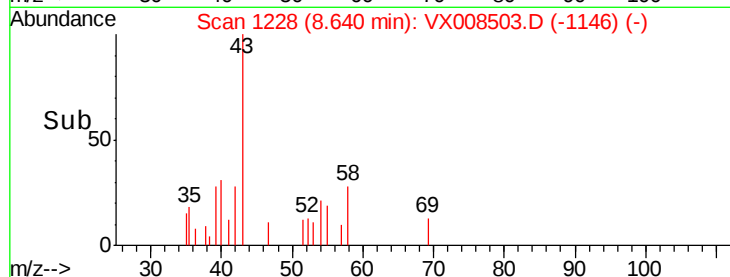
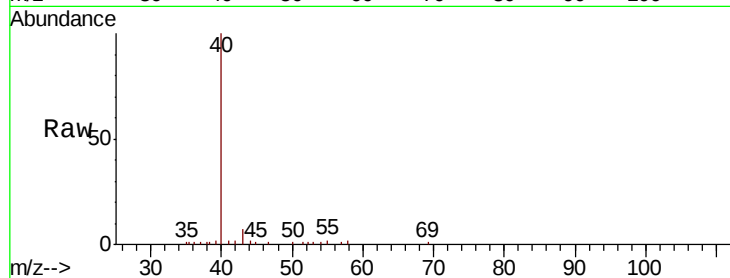




#58
4-Methyl-2-Pentanone
Concen: 0.292 ug/l
RT: 8.64 min Scan# 1228
Delta R.T. -0.00 min
Lab File: VX008503.D
Acq: 27 Mar 2019 23:12

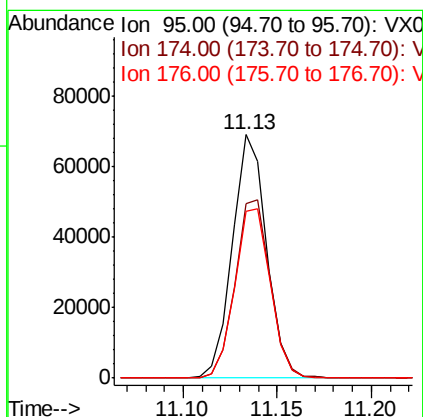
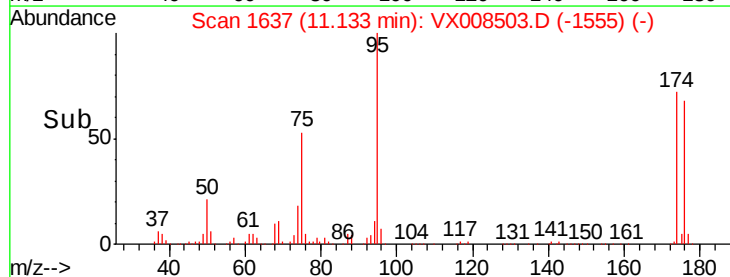
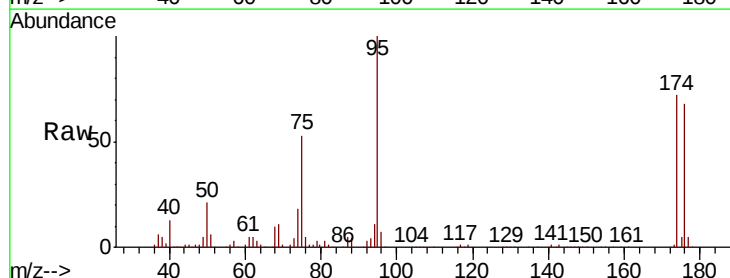
Instrument :
MSVOA_X
ClientSampleId :
SEWER-OUTLET-02

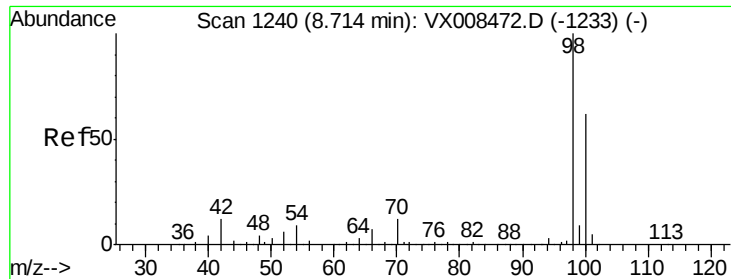
Tot Ion: 43 Resp: 1333
Ion Ratio Lower Upper
43 100
58 16.0 31.4 47.0#
85 1.9 15.0 22.6#



#60
4-Bromofluorobenzene
Concen: 28.823 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX008503.D
Acq: 27 Mar 2019 23:12

Tgt Ion: 95 Resp: 86895
Ion Ratio Lower Upper
95 100
174 75.6 74.9 112.3
176 72.8 70.7 106.1





#63

Toluene-d8

Concen: 30.585 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008503.D

Acq: 27 Mar 2019 23:12

Instrument :

MSVOA_X

ClientSampleId :

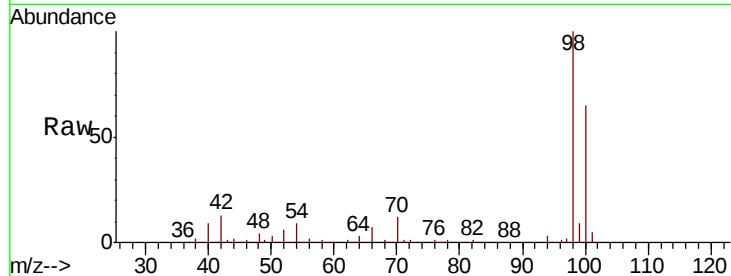
SEWER-OUTLET-02

Tot Ion: 98 Resp: 251210

Ion Ratio Lower Upper

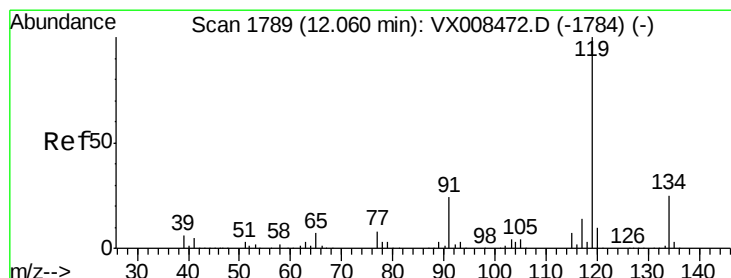
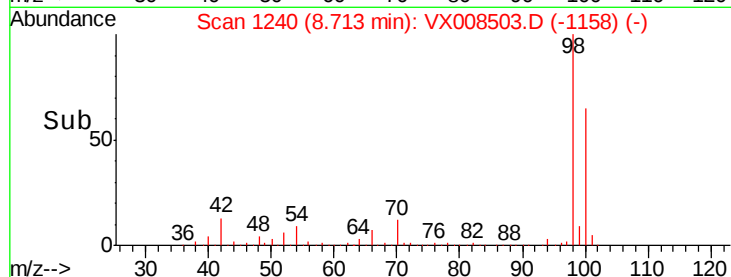
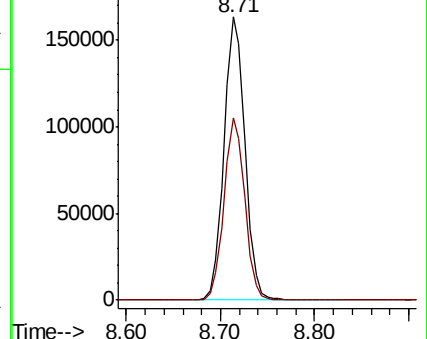
98 100

100 64.1 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#79

tert-butylbenzene

Concen: 0.334 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VX008503.D

Acq: 27 Mar 2019 23:12

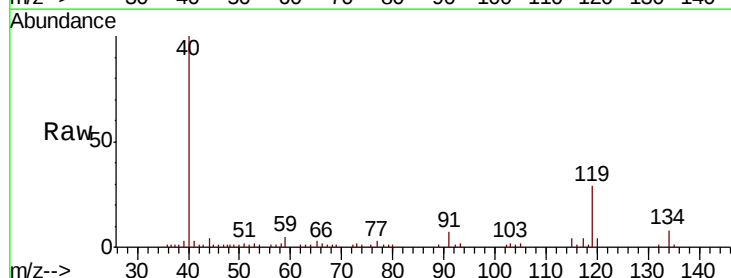
Tgt Ion: 119 Resp: 3199

Ion Ratio Lower Upper

119 100

91 27.2 0.0 45.0

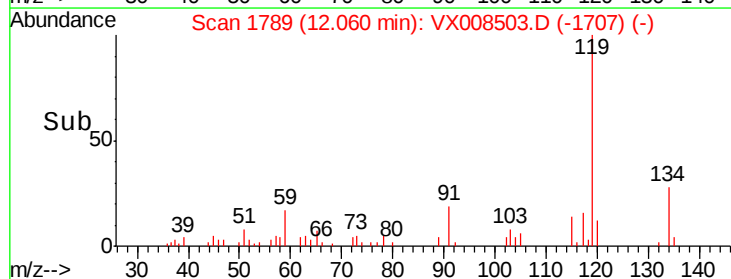
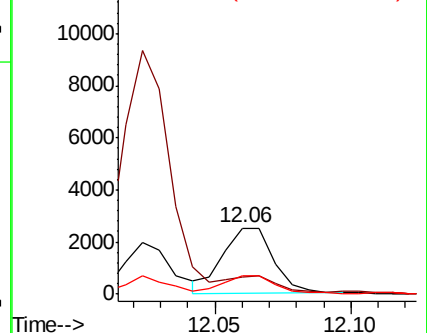
134 30.1 0.0 55.4

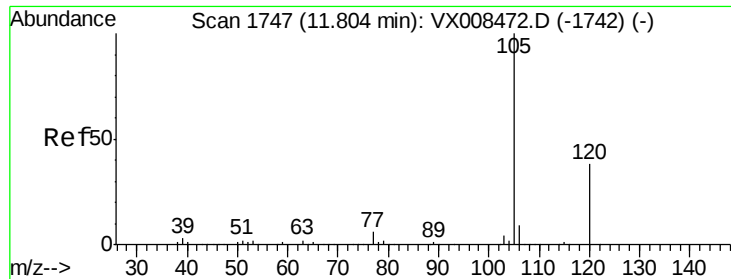


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VX0

Ion 134.00 (133.70 to 134.70): V

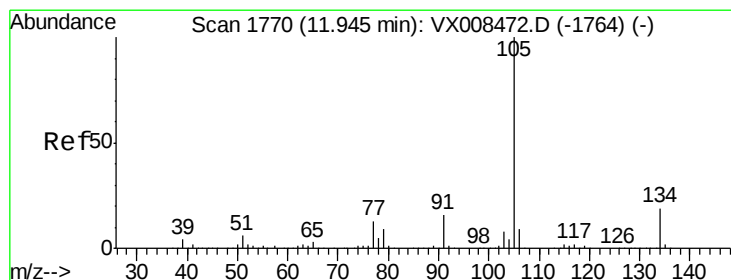
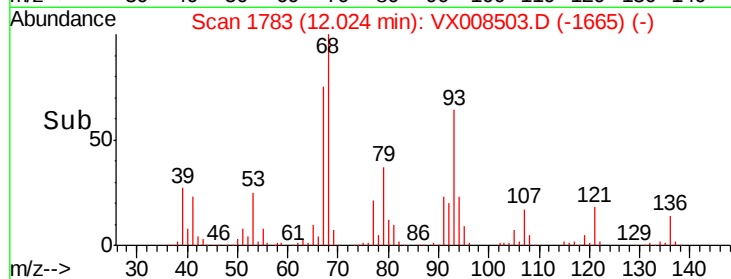
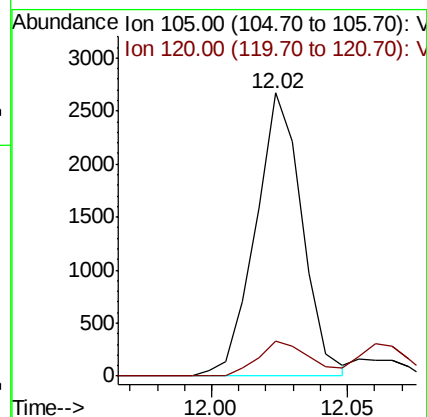
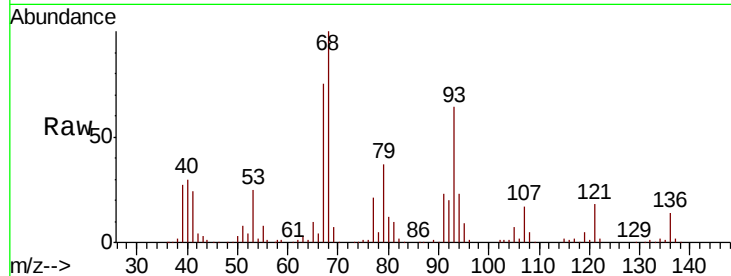




#80
 1,2,4-Trimethylbenzene
 Concen: 0.339 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. 0.22 min
 Lab File: VX008503.D
 Acq: 27 Mar 2019 23:12

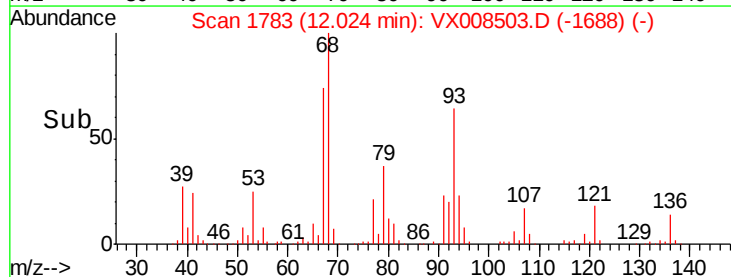
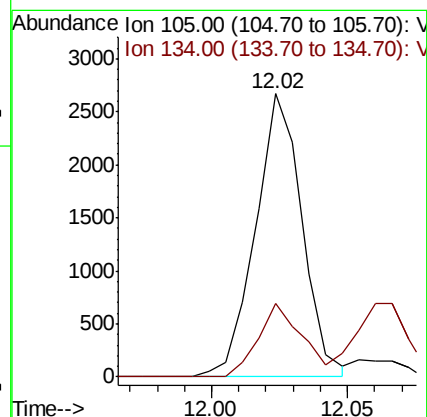
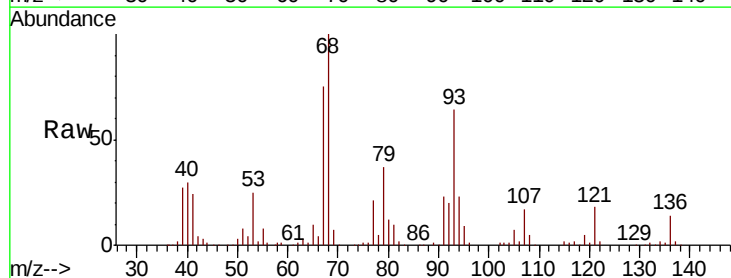
Instrument :
 MSVOA_X
 ClientSampleId :
 SEWER-OUTLET-02

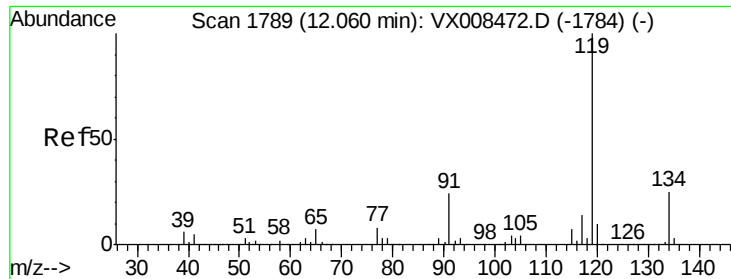
Tot Ion:105 Resp: 3165
 Ion Ratio Lower Upper
 105 100
 120 13.9 0.0 94.0



#81
 sec-Butylbenzene
 Concen: 0.296 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. 0.08 min
 Lab File: VX008503.D
 Acq: 27 Mar 2019 23:12

Tgt Ion:105 Resp: 3165
 Ion Ratio Lower Upper
 105 100
 134 24.5 0.0 41.8





#82
 p-Isopropyltoluene
 Concen: 0.334 ug/l
 RT: 12.06 min Scan# 1789
 Delta R.T. -0.00 min
 Lab File: VX008503.D
 Acq: 27 Mar 2019 23:12

Instrument :
 MSVOA_X
 ClientSampleId :
 SEWER-OUTLET-02

Tot Ion	Ratio	Lower	Upper
119	100		
134	30.1	0.0	55.4
91	27.2	0.0	45.0

