

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051019\
 Data File : VX009481.D
 Acq On : 10 May 2019 14:24
 Operator : JC/SP
 Sample : K2789-02DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SEWER-OUTLET-02DL

Quant Time: May 11 02:34:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 02 06:46:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	28591	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	166678	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	141573	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	70989	29.93	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.77%
60) 4-Bromofluorobenzene	11.13	95	68796	28.60	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.33%
63) Toluene-d8	8.71	98	201132	29.97	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.90%

Target Compounds

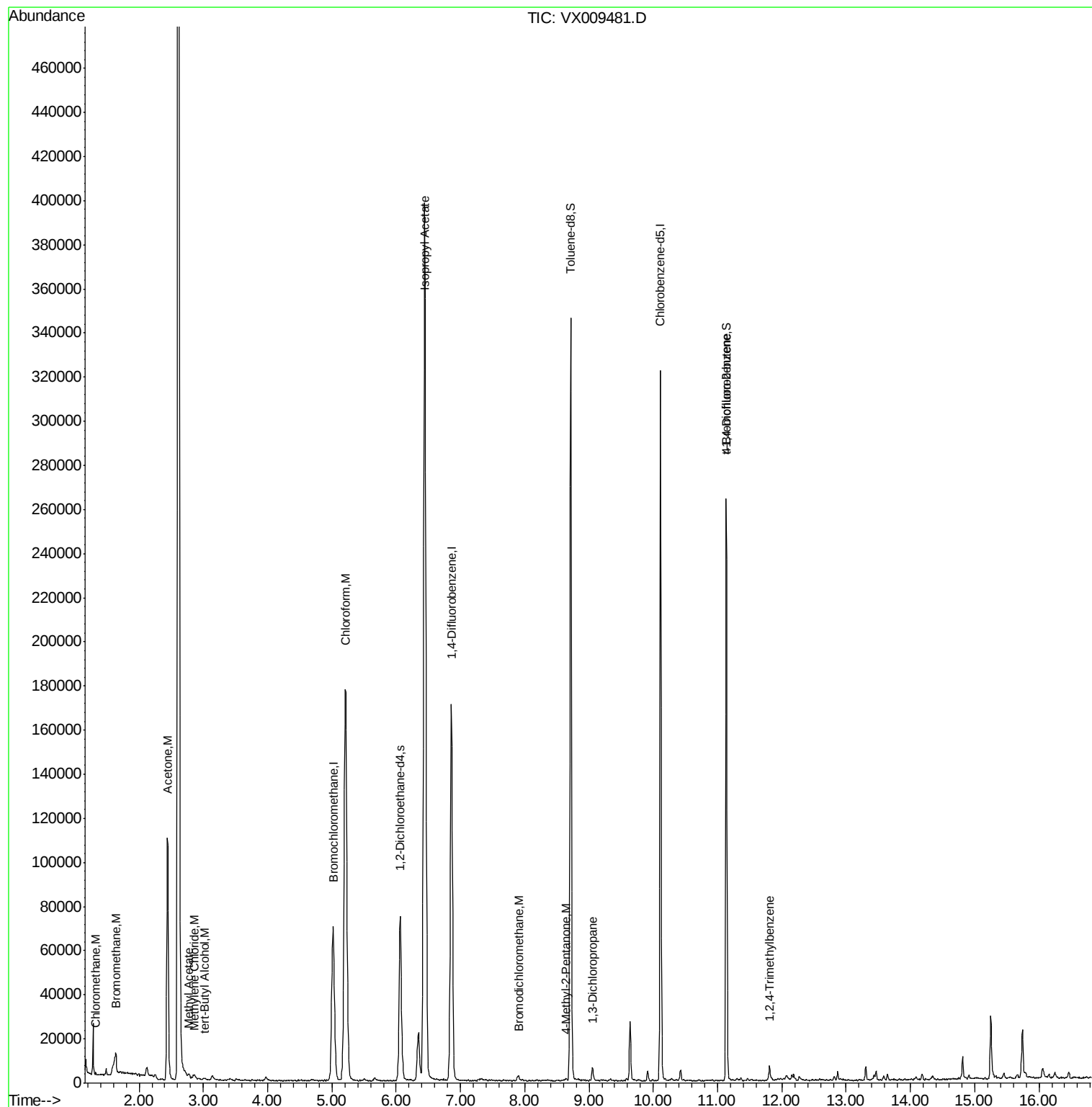
					Ovalue	
3) Chloromethane	1.32	50	599	0.293	ug/l	95
5) Bromomethane	1.64	94	356	0.276	ug/l	88
12) Methyl Acetate	2.77	43	1930	0.655	ug/l #	89
15) Acetone	2.44	58	36386	99.139	ug/l	98
18) Methylene Chloride	2.86	84	673	0.356	ug/l #	67
23) tert-Butyl Alcohol	3.01	59	321	0.594	ug/l #	100
25) Chloroform	5.21	83	212569	65.102	ug/l	99
41) Bromodichloromethane	7.90	83	1137	0.457	ug/l #	90
44) Isopropyl Acetate	6.45	43	555759	99.122	ug/l	99
52) 1,3-Dichloropropane	9.05	76	928	0.280	ug/l #	43
58) 4-Methyl-2-Pentanone	8.64	43	1150	0.330	ug/l #	60
77) t-1,4-Dichloro-2-butene	11.13	75	34312	33.125	ug/l #	10
80) 1,2,4-Trimethylbenzene	11.81	105	2135	0.309	ug/l #	31

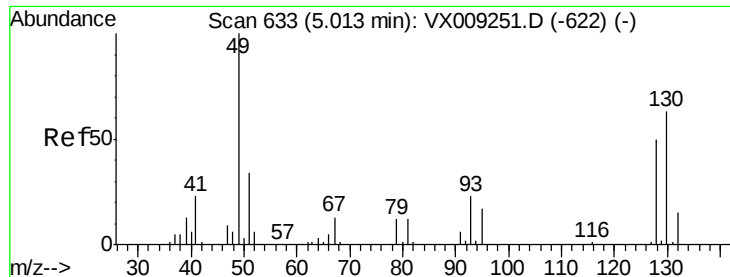
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 11 02:34:40 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu May 02 06:46:57 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.02 min Scan# 634

Delta R.T. 0.01 min

Lab File: VX009481.D

Acq: 10 May 2019 14:24

Instrument :

MSVOA_X

ClientSampleId :

SEWER-OUTLET-02DL

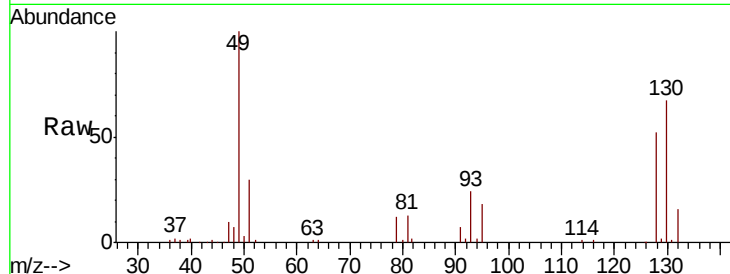
Tot Ion:128 Resp: 28591

Ion Ratio Lower Upper

128 100

49 196.6 0.0 515.0

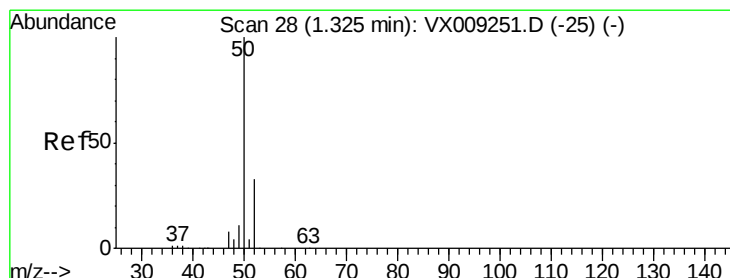
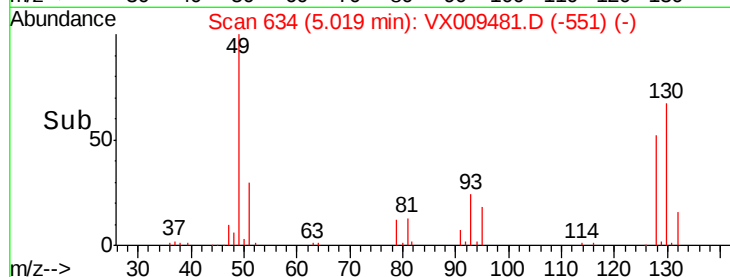
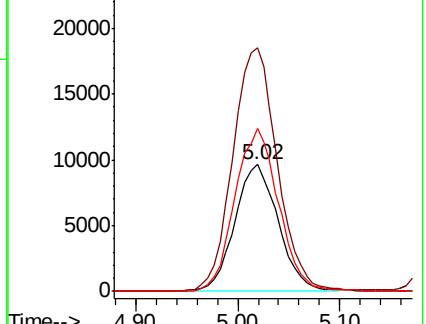
130 129.1 0.0 323.3



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



#3

Chloromethane

Concen: 0.293 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX009481.D

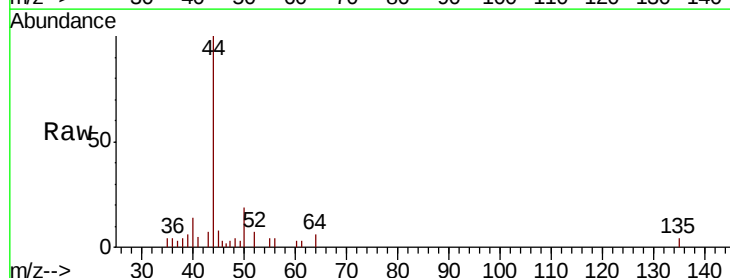
Acq: 10 May 2019 14:24

Tgt Ion: 50 Resp: 599

Ion Ratio Lower Upper

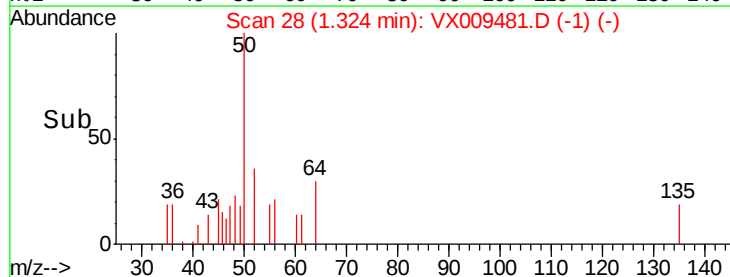
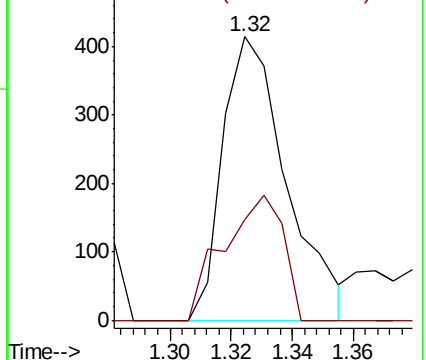
50 100

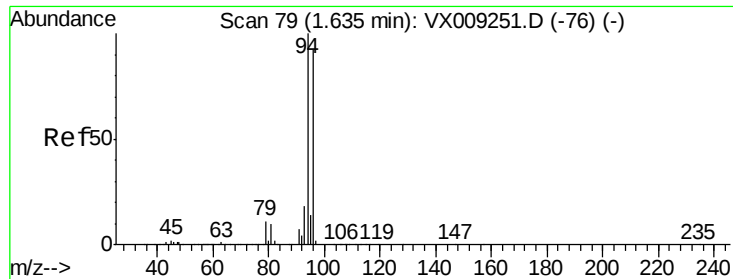
52 35.7 26.3 39.5



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#5

Bromomethane

Concen: 0.276 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX009481.D

Acq: 10 May 2019 14:24

Instrument :

MSVOA_X

ClientSampleId :

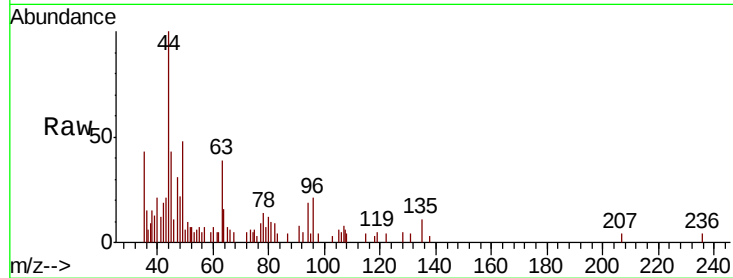
SEWER-OUTLET-02DL

Tot Ion: 94 Resp: 356

Ion Ratio Lower Upper

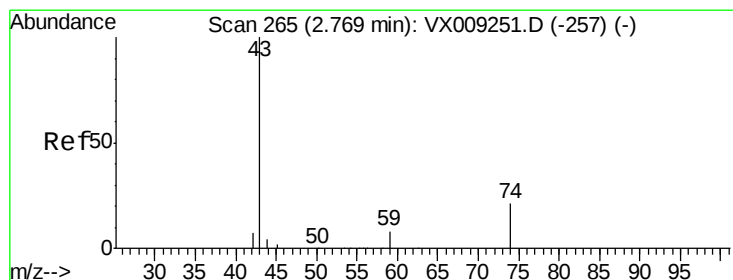
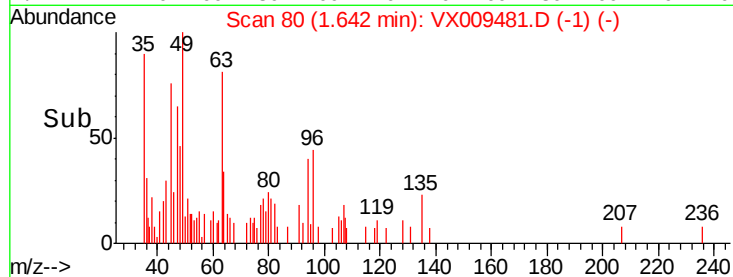
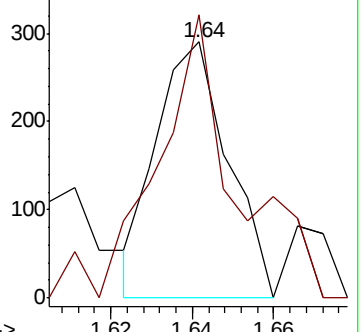
94 100

96 80.7 73.5 110.3



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0



#12

Methyl Acetate

Concen: 0.655 ug/l

RT: 2.77 min Scan# 265

Delta R.T. -0.00 min

Lab File: VX009481.D

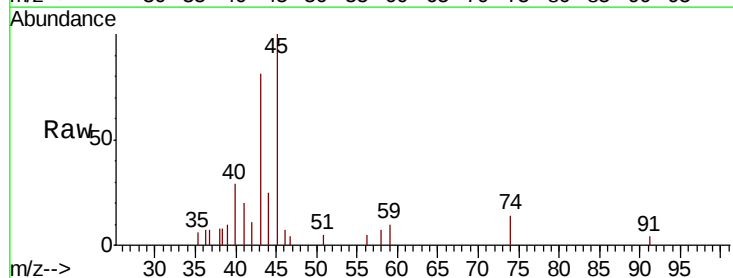
Acq: 10 May 2019 14:24

Tgt Ion: 43 Resp: 1930

Ion Ratio Lower Upper

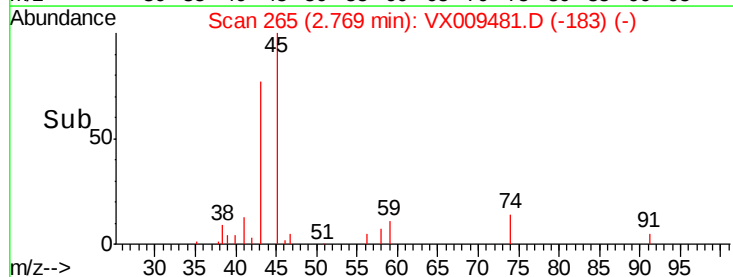
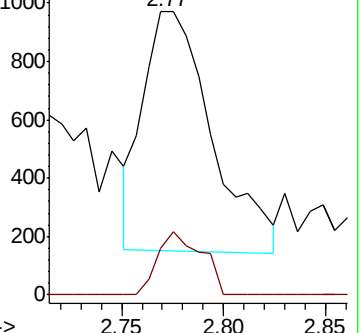
43 100

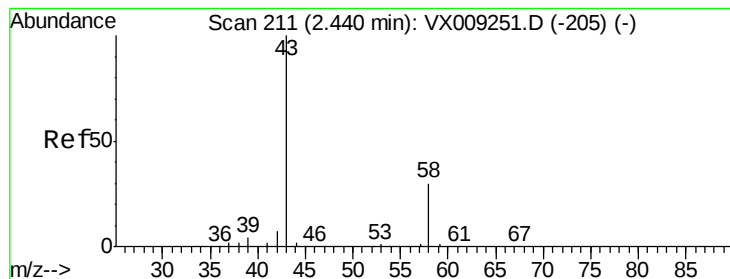
74 25.6 16.5 24.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#15

Acetone

Concen: 99.139 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX009481.D

Acq: 10 May 2019 14:24

Instrument :

MSVOA_X

ClientSampleId :

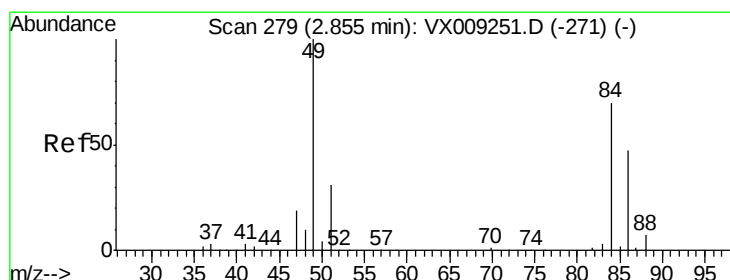
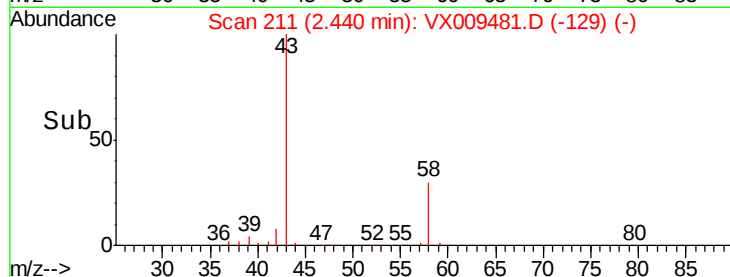
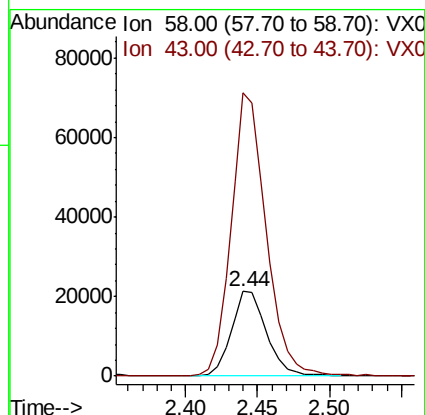
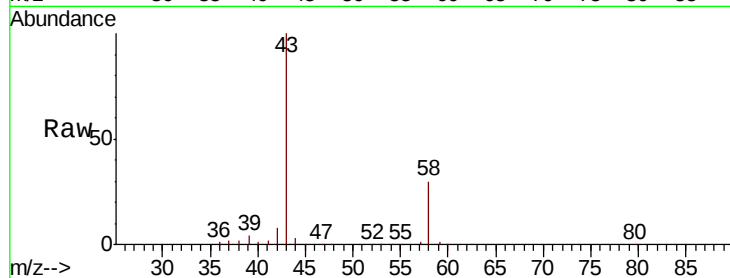
SEWER-OUTLET-02DL

Tot Ion: 58 Resp: 36386

Ion Ratio Lower Upper

58 100

43 333.8 264.0 396.0



#18

Methylene Chloride

Concen: 0.356 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX009481.D

Acq: 10 May 2019 14:24

Tgt Ion: 84 Resp: 673

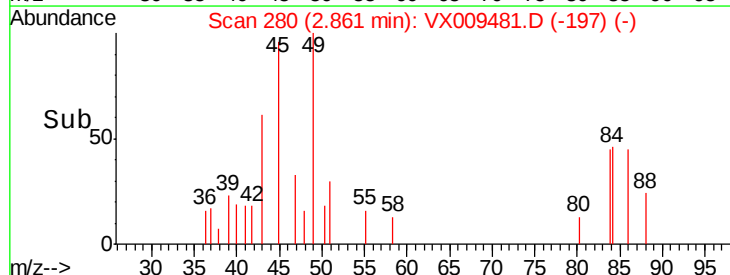
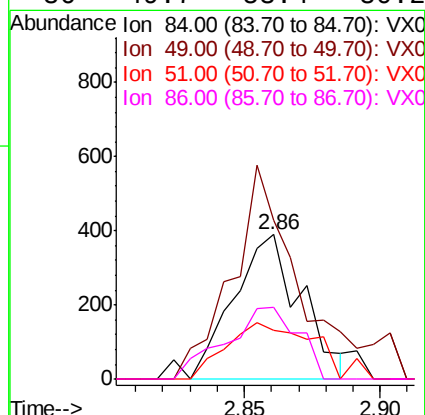
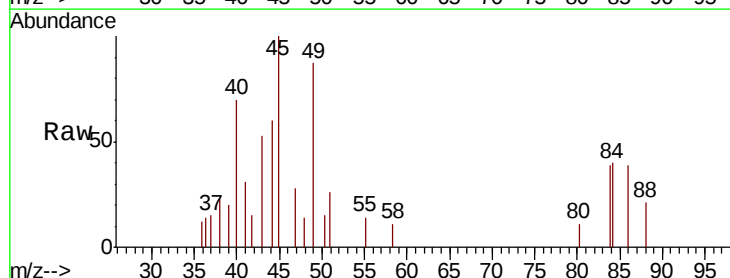
Ion Ratio Lower Upper

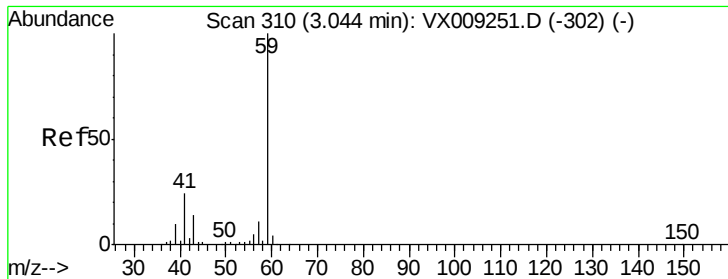
84 100

49 88.7 114.6 171.8#

51 33.3 35.5 53.3#

86 49.7 53.4 80.2#



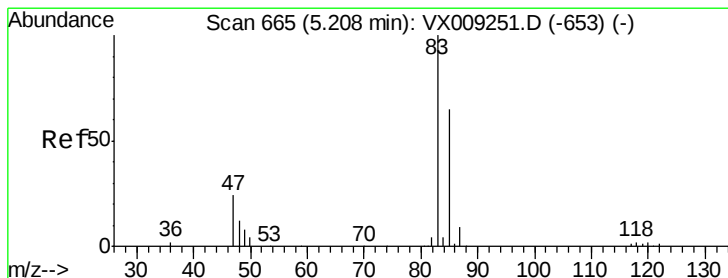
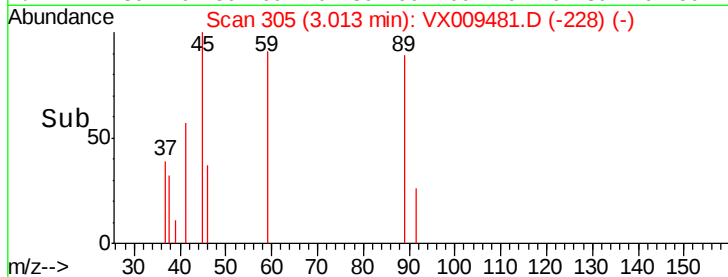
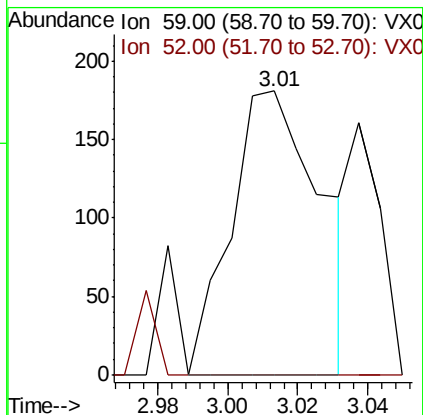
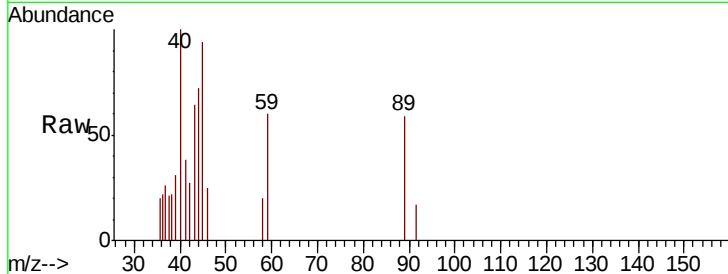


#23

tert-Butyl Alcohol
 Concen: 0.594 ug/l
 RT: 3.01 min Scan# 305
 Delta R.T. -0.03 min
 Lab File: VX009481.D
 Acq: 10 May 2019 14:24

Instrument :
 MSVOA_X
 ClientSampleId :
 SEWER-OUTLET-02DL

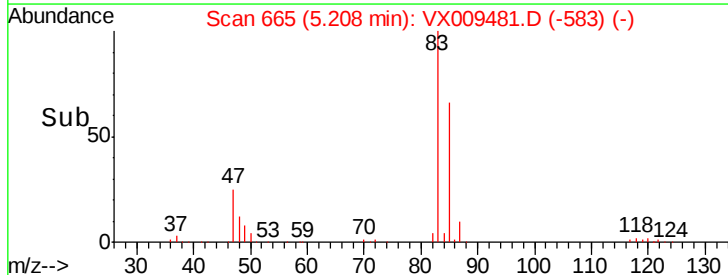
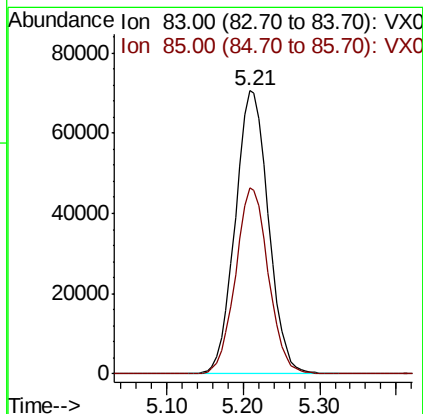
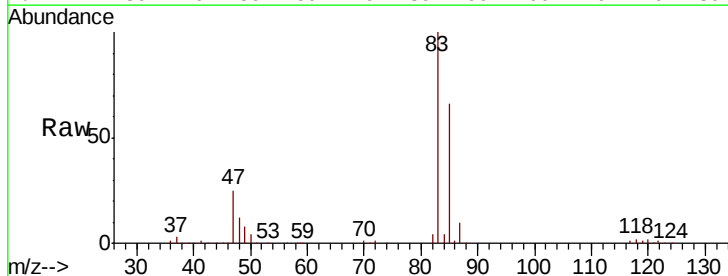
Tot Ion: 59 Resp: 321
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.2 0.2#

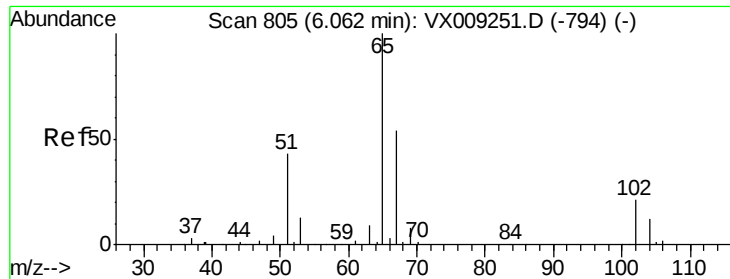


#25

Chloroform
 Concen: 65.102 ug/l
 RT: 5.21 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VX009481.D
 Acq: 10 May 2019 14:24

Tgt Ion: 83 Resp: 212569
 Ion Ratio Lower Upper
 83 100
 85 65.6 51.9 77.9





#27

1,2-Dichloroethane-d4

Concen: 29.931 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009481.D

Acq: 10 May 2019 14:24

Instrument :

MSVOA_X

ClientSampleId :

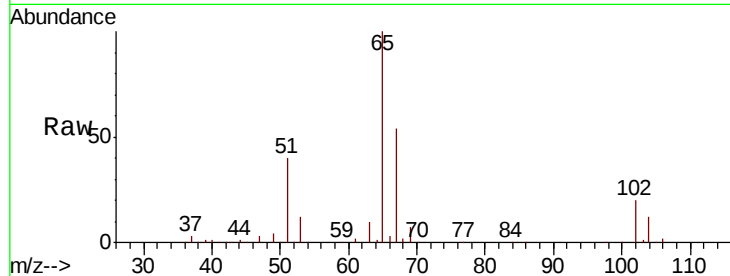
SEWER-OUTLET-02DL

Tot Ion: 65 Resp: 70989

Ion Ratio Lower Upper

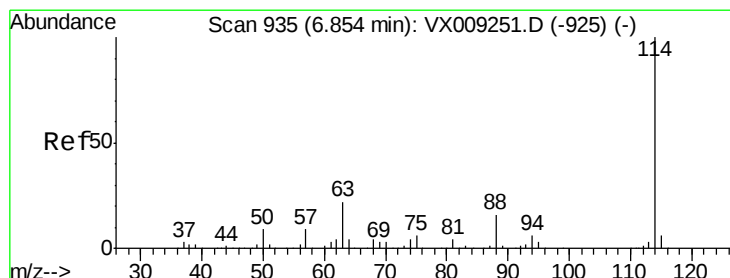
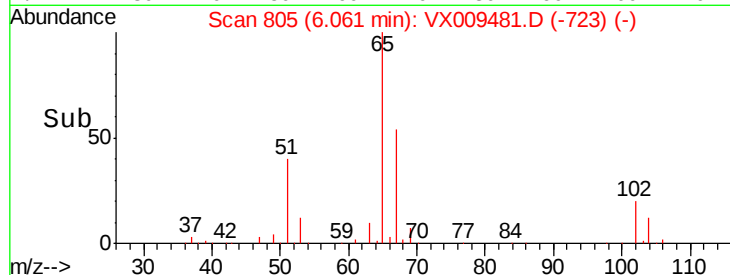
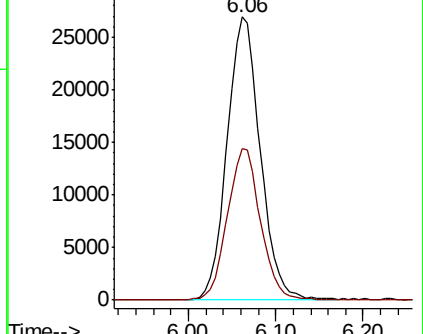
65 100

67 53.4 43.1 64.7



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.01 min

Lab File: VX009481.D

Acq: 10 May 2019 14:24

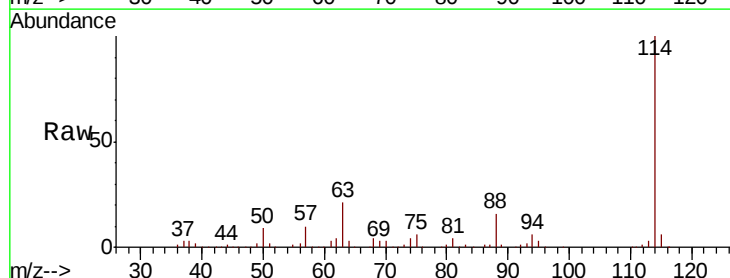
Tgt Ion:114 Resp: 166678

Ion Ratio Lower Upper

114 100

63 22.4 18.0 27.0

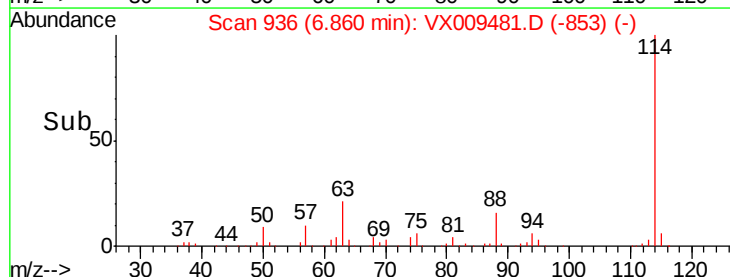
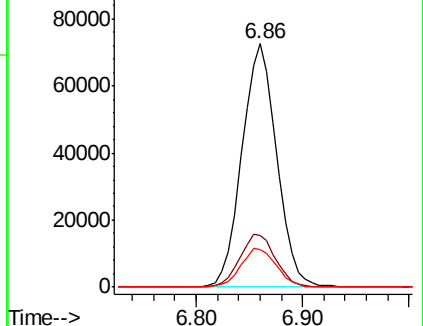
88 16.3 13.4 20.0

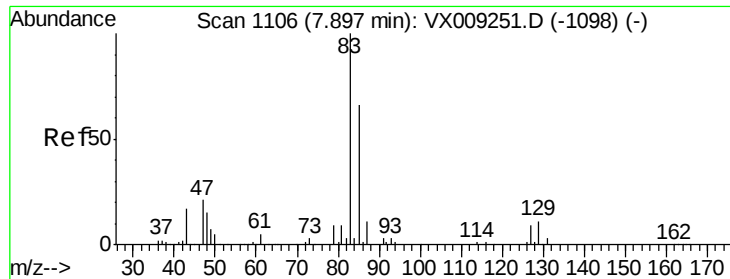


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0





#41

Bromodichloromethane

Concen: 0.457 ug/l

RT: 7.90 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VX009481.D

Acq: 10 May 2019 14:24

Instrument :

MSVOA_X

ClientSampleId :

SEWER-OUTLET-02DL

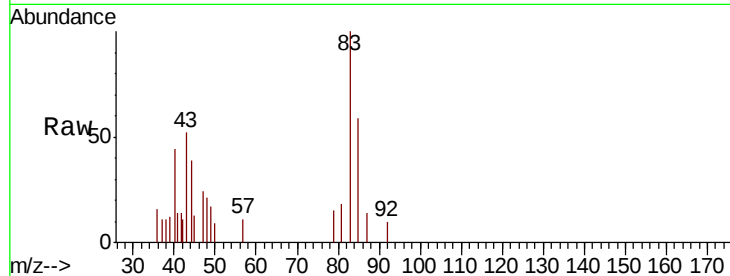
Tot Ion: 83 Resp: 1137

Ion Ratio Lower Upper

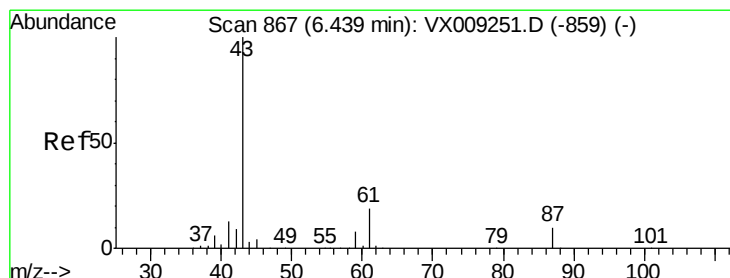
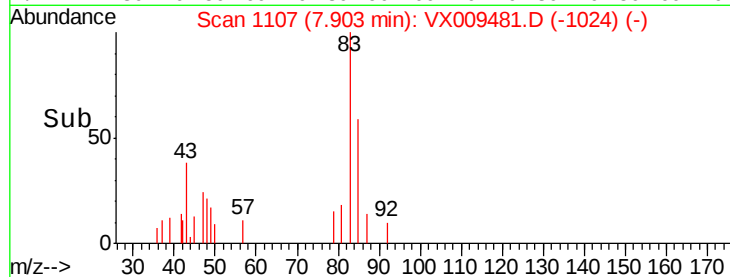
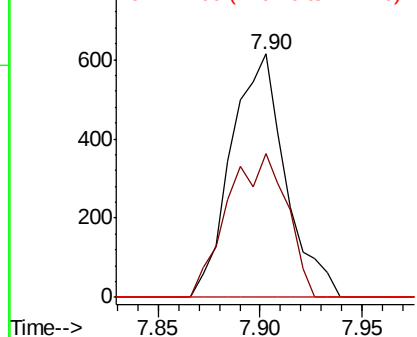
83 100

85 59.1 52.6 79.0

127 0.0 6.9 10.3#



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



#44

Isopropyl Acetate

Concen: 99.122 ug/l

RT: 6.45 min Scan# 868

Delta R.T. 0.01 min

Lab File: VX009481.D

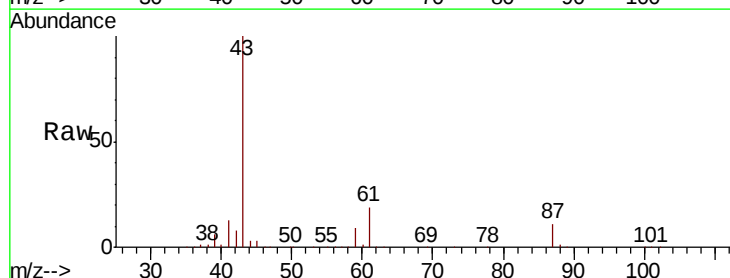
Acq: 10 May 2019 14:24

Tgt Ion: 43 Resp: 555759

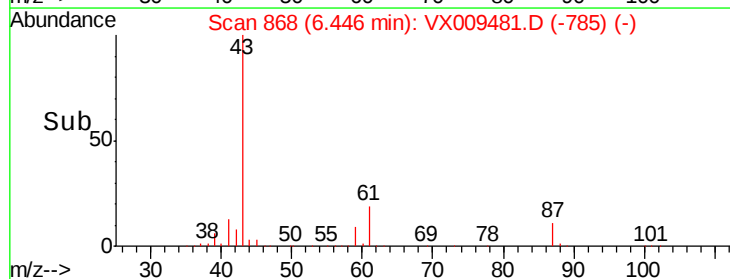
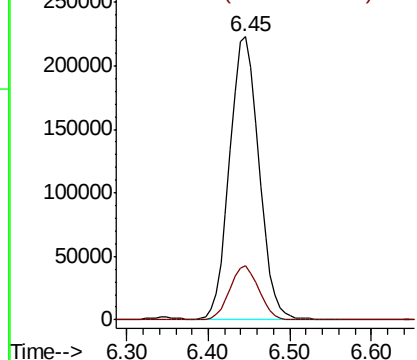
Ion Ratio Lower Upper

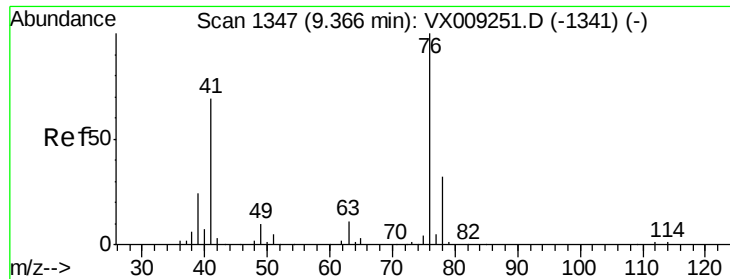
43 100

61 18.8 15.4 23.2



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0





#52

1,3-Dichloropropane

Concen: 0.280 ug/l

RT: 9.05 min Scan# 1296

Delta R.T. -0.31 min

Lab File: VX009481.D

Acq: 10 May 2019 14:24

Instrument :

MSVOA_X

ClientSampleId :

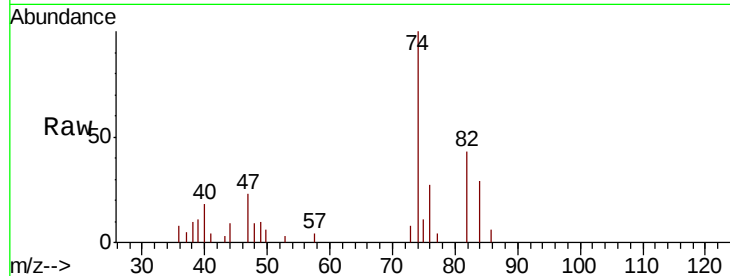
SEWER-OUTLET-02DL

Tot Ion: 76 Resp: 928

Ion Ratio Lower Upper

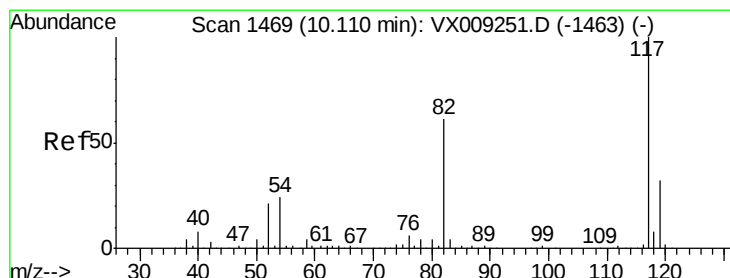
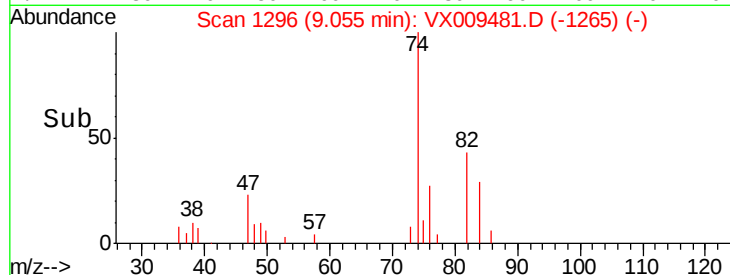
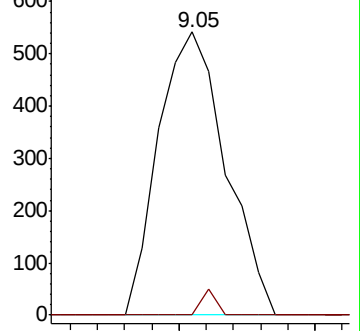
76 100

78 0.0 0.0 64.2



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX009481.D

Acq: 10 May 2019 14:24

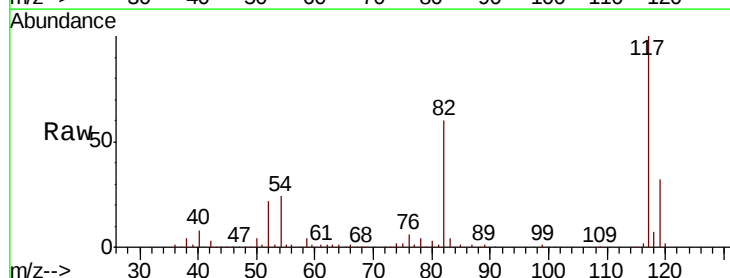
Tgt Ion: 117 Resp: 141573

Ion Ratio Lower Upper

117 100

82 59.0 47.8 71.8

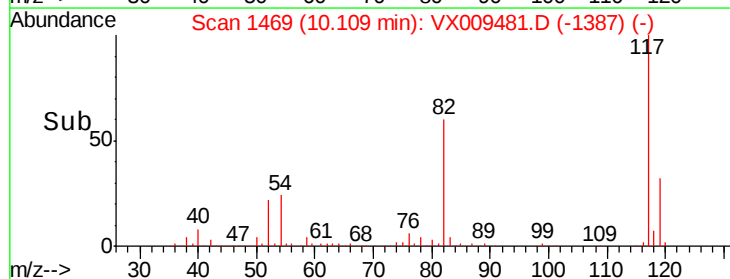
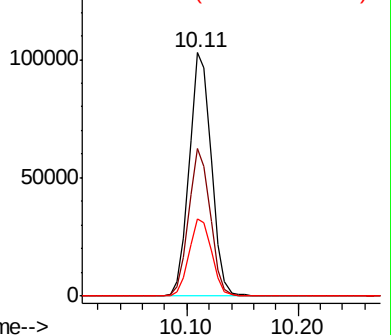
119 31.9 25.6 38.4

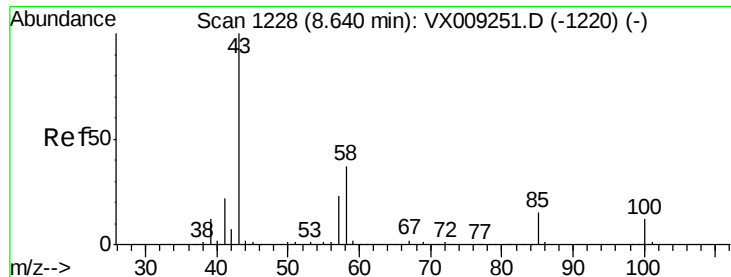


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V

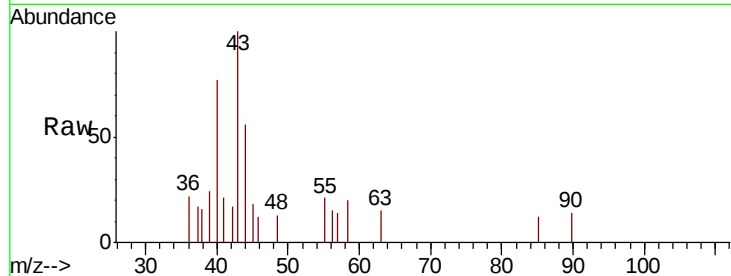




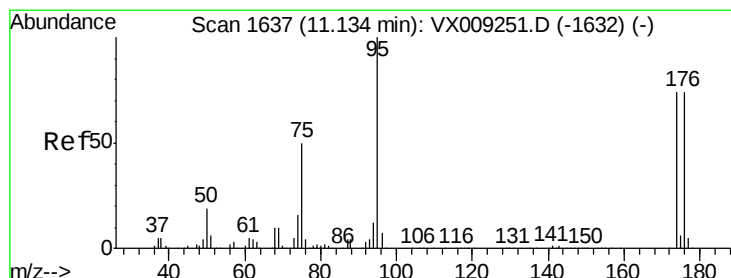
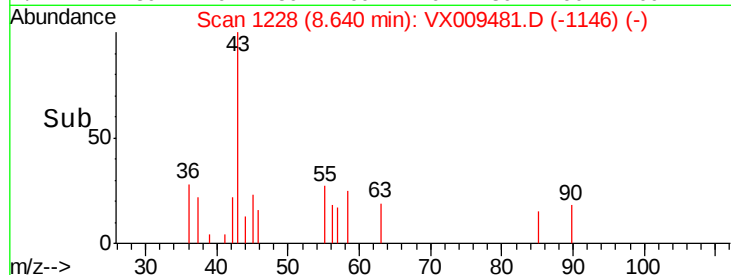
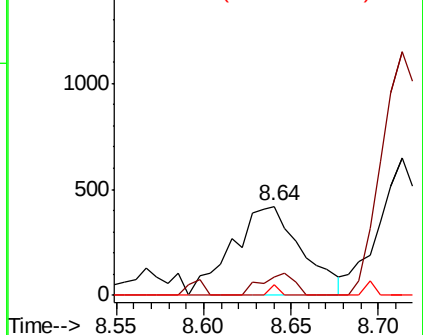
#58
 4-Methyl-2-Pentanone
 Concen: 0.330 ug/l
 RT: 8.64 min Scan# 1228
 Delta R.T. -0.00 min
 Lab File: VX009481.D
 Acq: 10 May 2019 14:24

Instrument :
 MSVOA_X
 ClientSampleId :
 SEWER-OUTLET-02DL

Tot Ion: 43 Resp: 1150
 Ion Ratio Lower Upper
 43 100
 58 11.7 29.4 44.0#
 85 0.0 11.8 17.8#

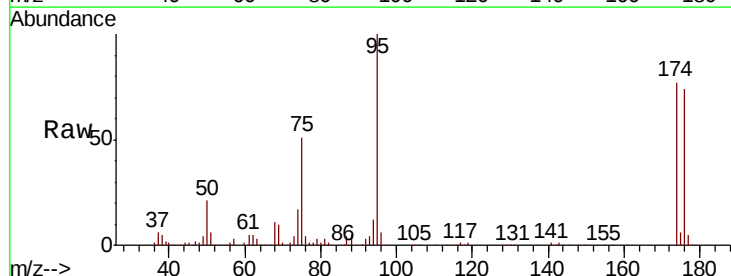


Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0
 Ion 85.00 (84.70 to 85.70): VX0

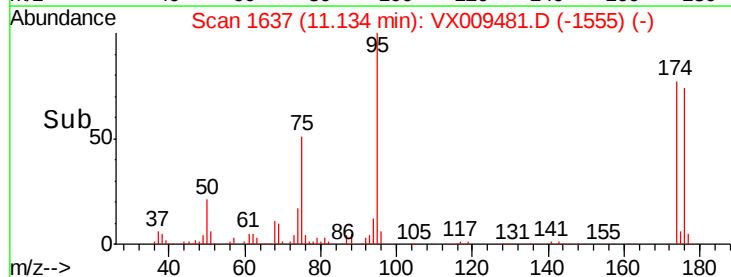
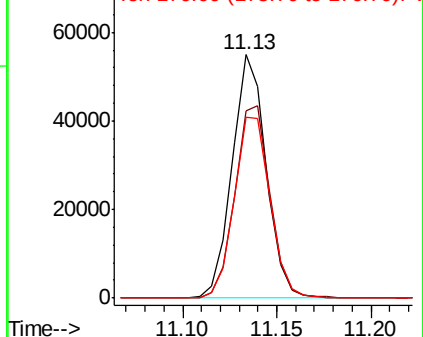


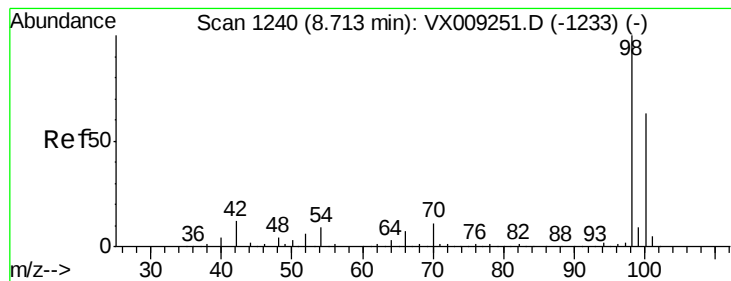
#60
 4-Bromofluorobenzene
 Concen: 28.597 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.00 min
 Lab File: VX009481.D
 Acq: 10 May 2019 14:24

Tgt Ion: 95 Resp: 68796
 Ion Ratio Lower Upper
 95 100
 174 81.9 63.6 95.4
 176 78.7 62.4 93.6



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: 29.966 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009481.D

Acq: 10 May 2019 14:24

Instrument :

MSVOA_X

ClientSampleId :

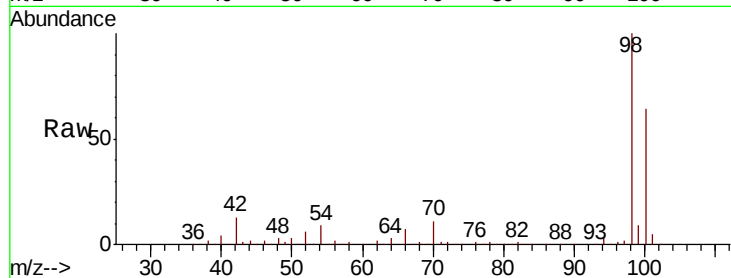
SEWER-OUTLET-02DL

Tot Ion: 98 Resp: 201132

Ion Ratio Lower Upper

98 100

100 64.6 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

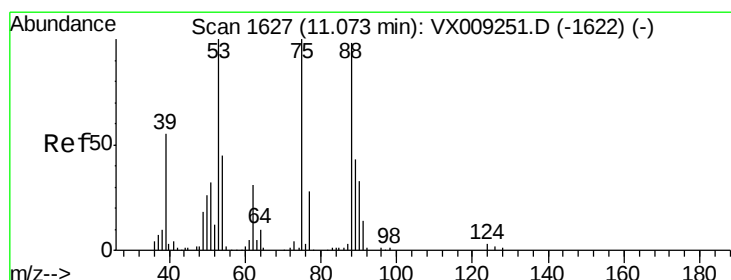
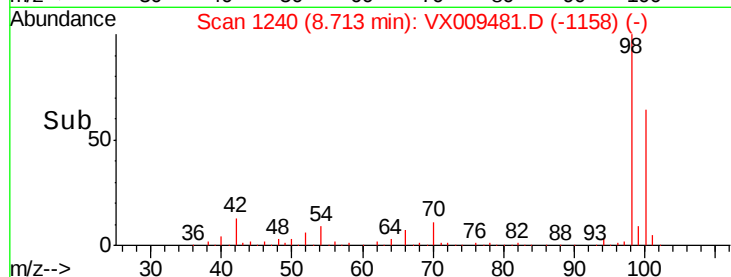
150000

100000

50000

0

Time-->



#77

t-1,4-Dichloro-2-butene

Concen: 33.125 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009481.D

Acq: 10 May 2019 14:24

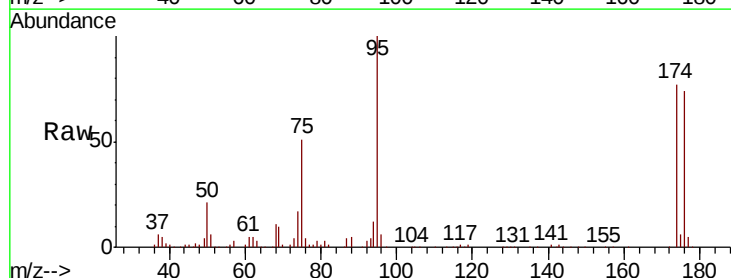
Tgt Ion: 75 Resp: 34312

Ion Ratio Lower Upper

75 100

53 0.2 50.0 149.8#

89 0.0 21.6 65.0#



Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 89.00 (88.70 to 89.70): VX0

11.13

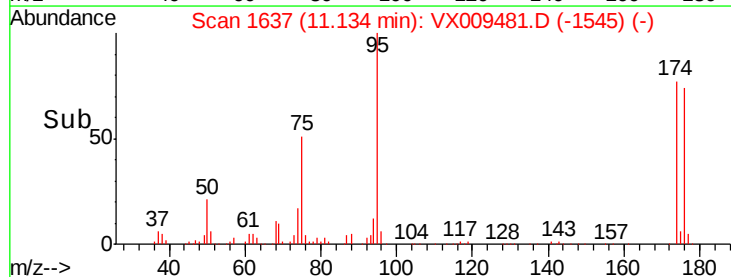
30000

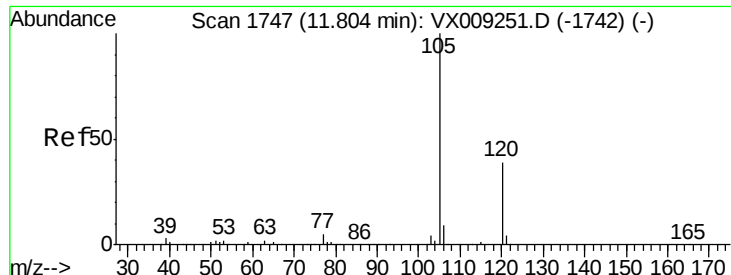
20000

10000

0

Time-->





#80
 1,2,4-Trimethylbenzene
 Concen: 0.309 ug/l
 RT: 11.81 min Scan# 1748
 Delta R.T. 0.01 min
 Lab File: VX009481.D
 Acq: 10 May 2019 14:24

Instrument :
 MSVOA_X
 ClientSampleId :
 SEWER-OUTLET-02DL

Tot Ion:105 Resp: 2135
 Ion Ratio Lower Upper
 105 100
 120 0.0 0.0 89.6

