

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051019\
 Data File : VX009475.D
 Acq On : 10 May 2019 12:04
 Operator : JC/SP
 Sample : K2789-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SEWER-OUTLET-01

Quant Time: May 11 02:33:02 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	5.03	128	26564	30.00	ug/l	0.01
28) 1,4-Difluorobenzene	6.86	114	160929	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	140946	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	69631	31.60	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.33%
60) 4-Bromofluorobenzene	11.13	95	68103	28.44	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.80%
63) Toluene-d8	8.71	98	199706	29.89	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.63%

Target Compounds

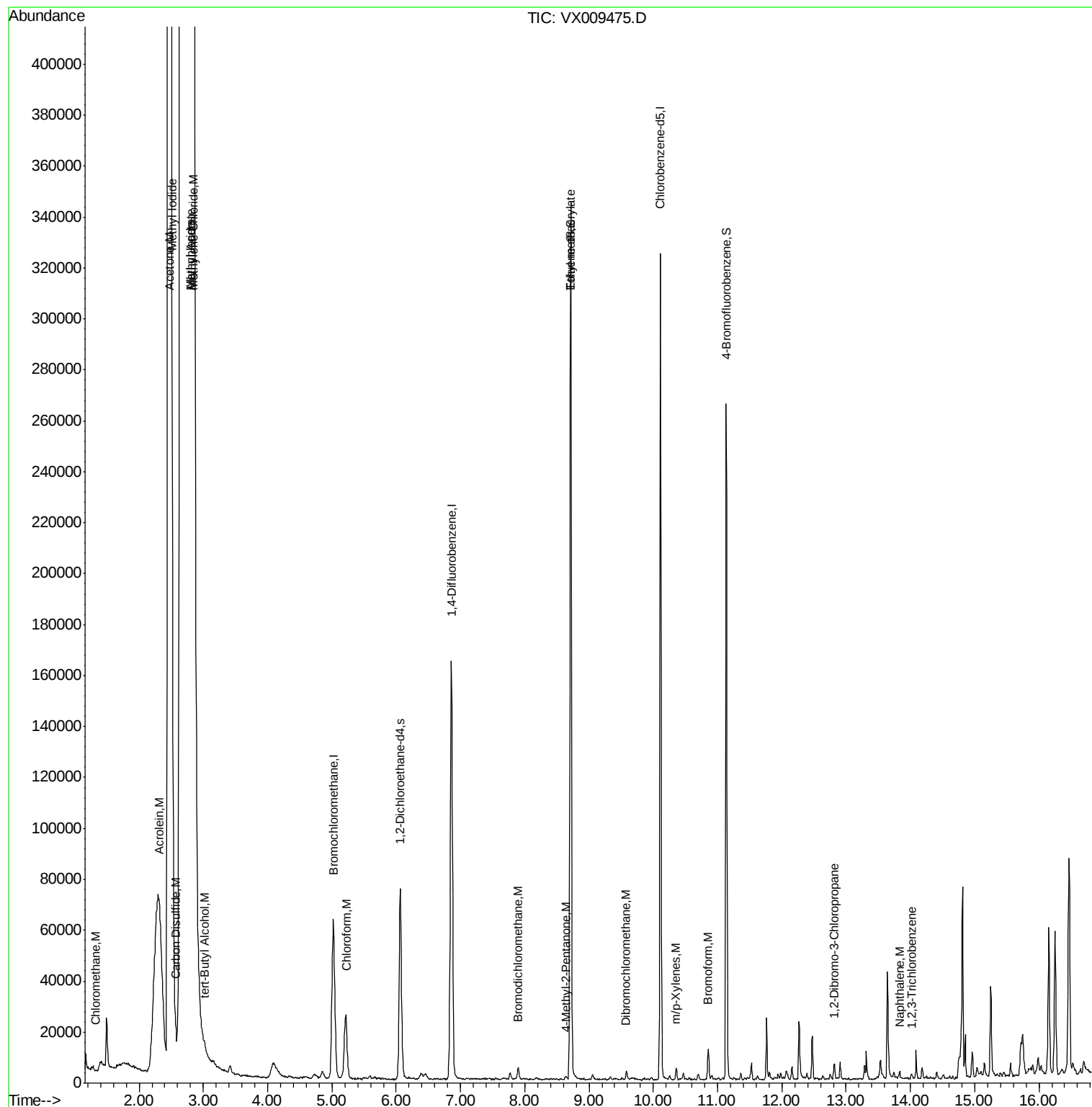
					Ovalue
3) Chloromethane	1.32	50	415	0.219	ug/l 90
11) Methyl Iodide	2.52	142	503	0.318	ug/l # 91
12) Methyl Acetate	2.81	43	20070181	7333.712	ug/l # 56
13) Acrolein	2.31	56	142	0.378	ug/l # 78
15) Acetone	2.47	58	1716192	5032.815	ug/l 96
16) Carbon Disulfide	2.57	76	1281	0.326	ug/l 99
17) Allyl chloride	2.81	41	8623402	2472.153	ug/l # 68
18) Methylene Chloride	2.85	84	391	0.223	ug/l # 94
23) tert-Butyl Alcohol	3.03	59	723	1.440	ug/l # 100
25) Chloroform	5.21	83	29401	9.692	ug/l 98
41) Bromodichloromethane	7.90	83	2785	1.159	ug/l # 95
51) Ethyl methacrylate	8.72	69	718	0.216	ug/l 95
53) Dibromochloromethane	9.59	129	836	0.466	ug/l 97
56) Bromoform	10.85	173	4254	3.087	ug/l # 94
58) 4-Methyl-2-Pentanone	8.63	43	1223	0.353	ug/l # 66
67) m/p-Xylenes	10.36	106	982	0.321	ug/l 97
88) 1,2-Dibromo-3-Chloropropan	12.82	75	180	0.261	ug/l # 2
91) Naphthalene	13.83	128	2038	0.243	ug/l # 97
92) 1,2,3-Trichlorobenzene	14.02	180	543	0.208	ug/l 61

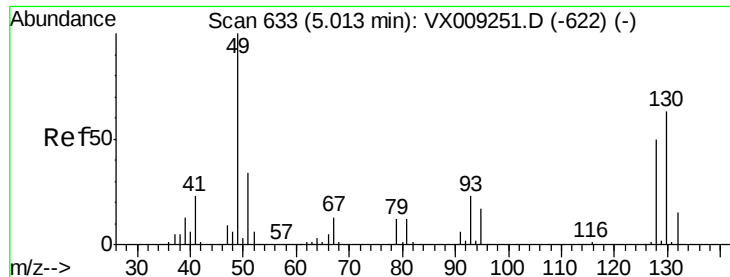
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu May 02 06:46:57 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.03 min Scan# 635

Delta R.T. 0.01 min

Lab File: VX009475.D

Acq: 10 May 2019 12:04

Instrument :

MSVOA_X

ClientSampleId :

SEWER-OUTLET-01

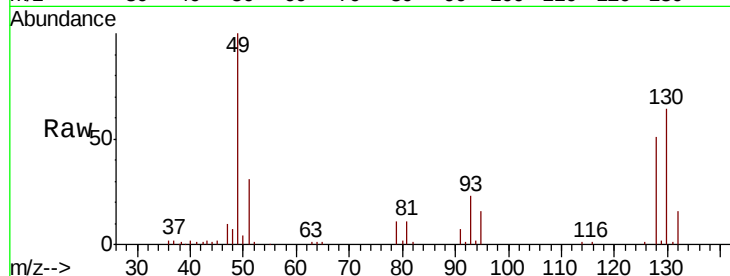
Tot Ion:128 Resp: 26564

Ion Ratio Lower Upper

128 100

49 197.1 0.0 515.0

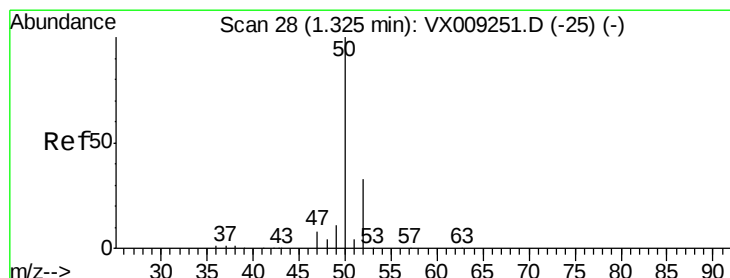
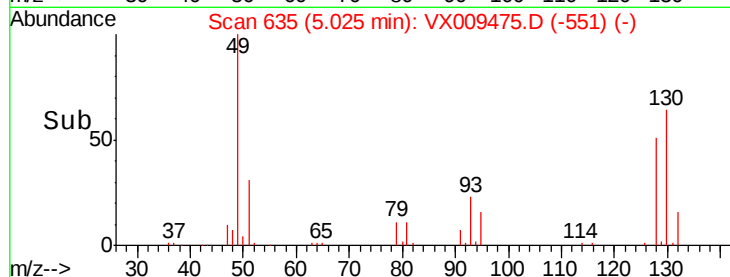
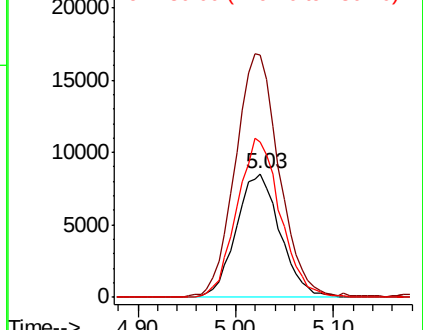
130 127.5 0.0 323.3



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: 0.219 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX009475.D

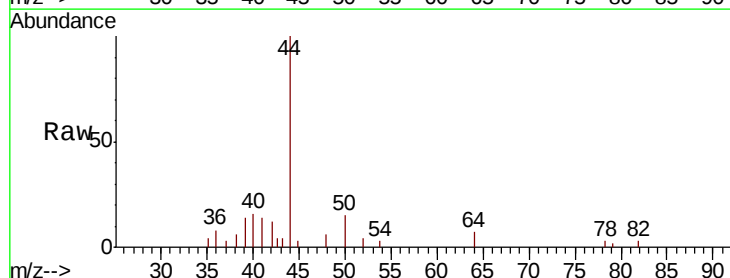
Acq: 10 May 2019 12:04

Tgt Ion: 50 Resp: 415

Ion Ratio Lower Upper

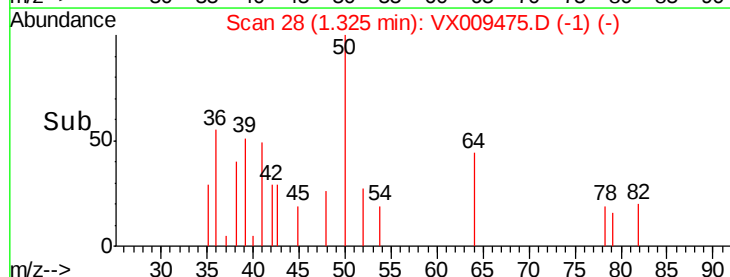
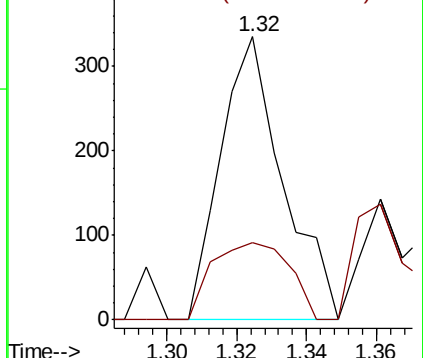
50 100

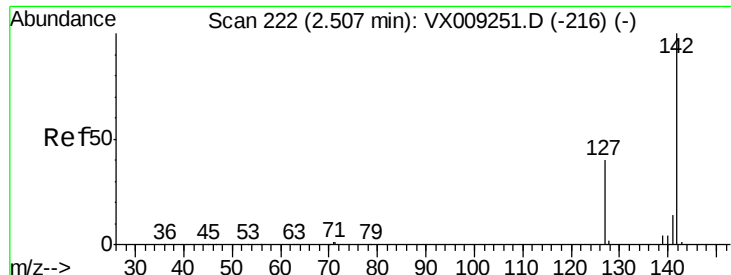
52 27.5 26.3 39.5



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

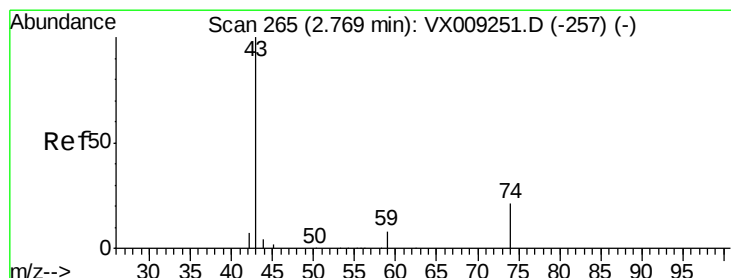
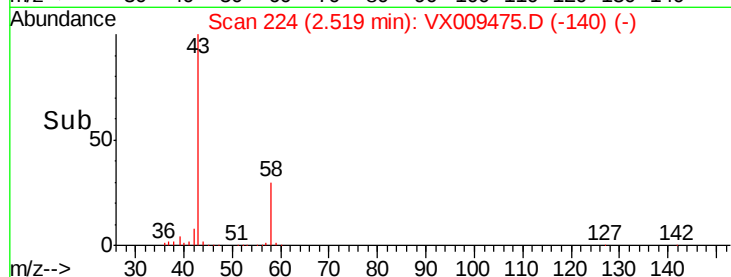
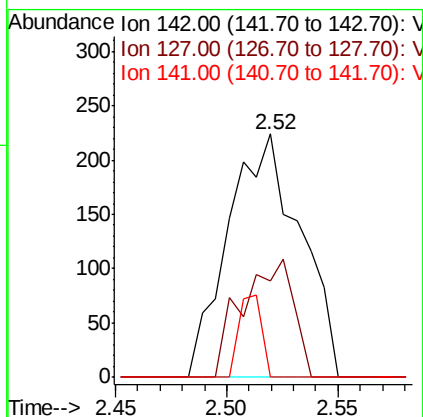
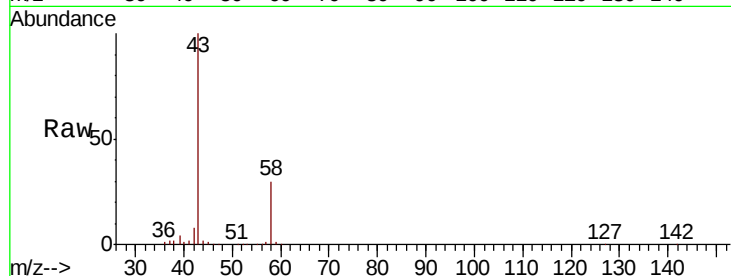




#11
Methvl Iodide
Concen: 0.318 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX009475.D
Acq: 10 May 2019 12:04

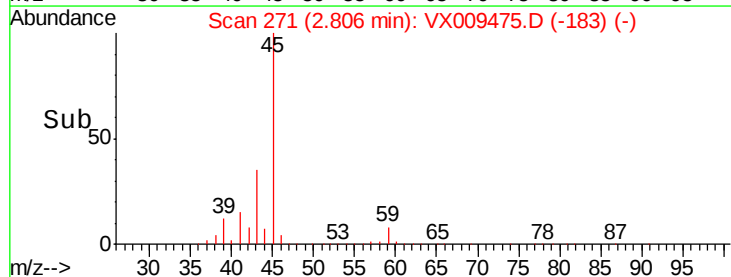
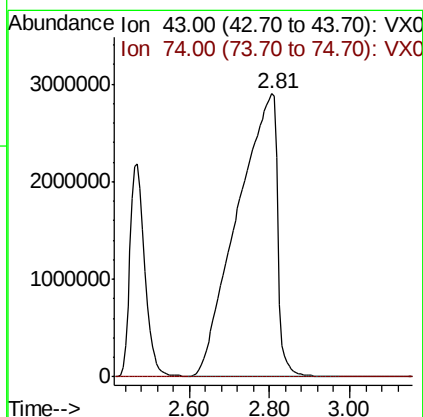
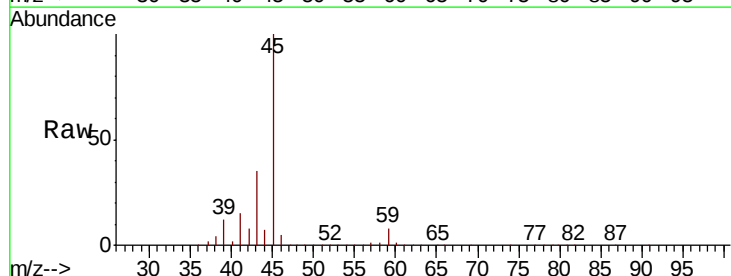
Instrument :
MSVOA_X
ClientSampleId :
SEWER-OUTLET-01

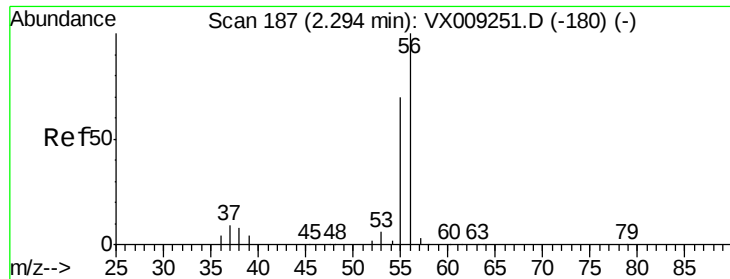
Tot Ion:142 Resp: 503
Ion Ratio Lower Upper
142 100
127 39.7 20.2 60.5
141 0.0 6.9 20.7#



#12
Methyl Acetate
Concen: 7333.712 ug/l
RT: 2.81 min Scan# 271
Delta R.T. 0.04 min
Lab File: VX009475.D
Acq: 10 May 2019 12:04

Tgt Ion: 43 Resp:20070181
Ion Ratio Lower Upper
43 100
74 0.0 16.5 24.7#





#13

Acrolein

Concen: 0.378 ug/l

RT: 2.31 min Scan# 190

Delta R.T. 0.02 min

Lab File: VX009475.D

Acq: 10 May 2019 12:04

Instrument :

MSVOA_X

ClientSampleId :

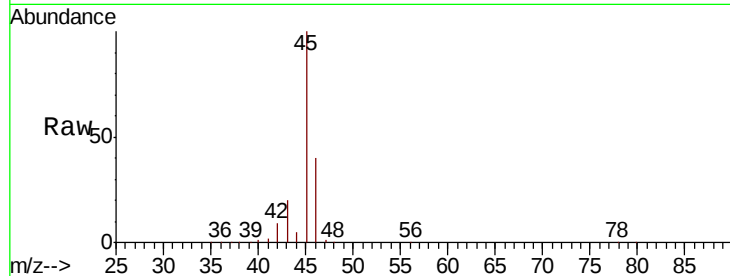
SEWER-OUTLET-01

Tot Ion: 56 Resp: 142

Ion Ratio Lower Upper

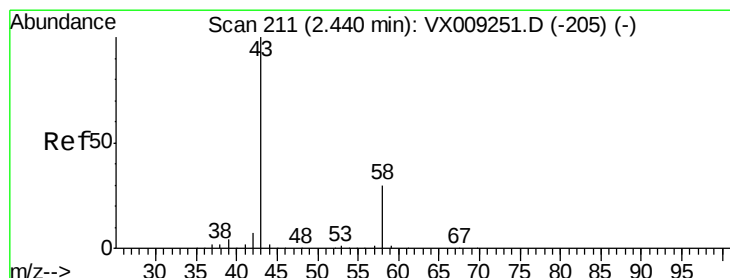
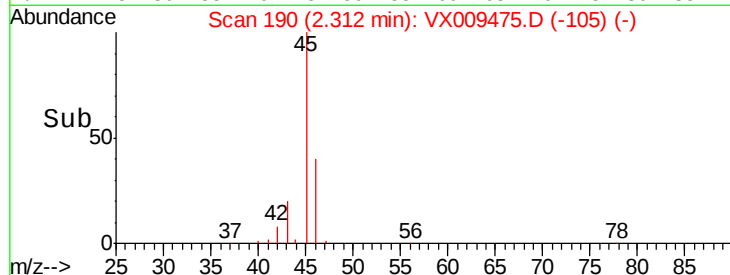
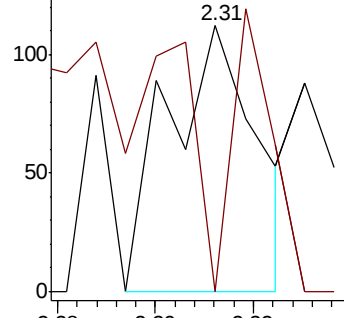
56 100

55 52.8 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acetone

Concen: 5032.815 ug/l

RT: 2.47 min Scan# 216

Delta R.T. 0.03 min

Lab File: VX009475.D

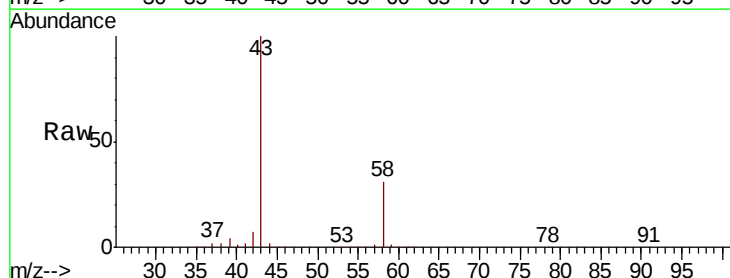
Acq: 10 May 2019 12:04

Tgt Ion: 58 Resp: 1716192

Ion Ratio Lower Upper

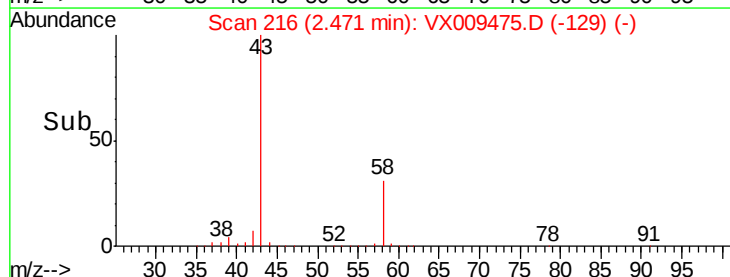
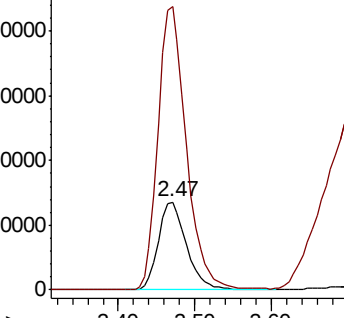
58 100

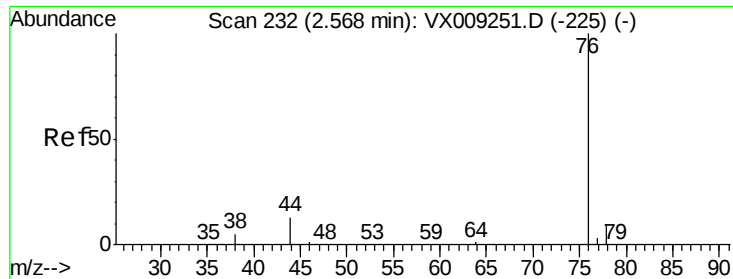
43 322.0 264.0 396.0



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

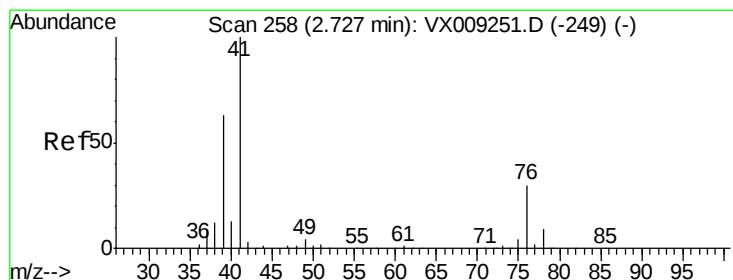
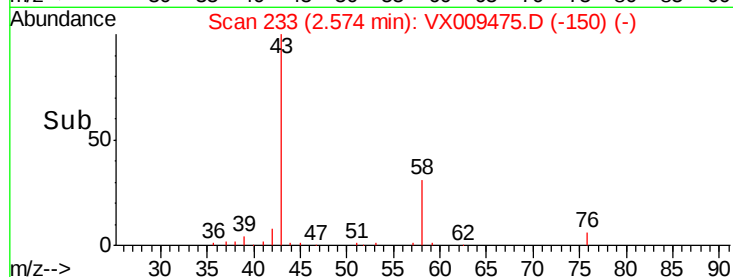
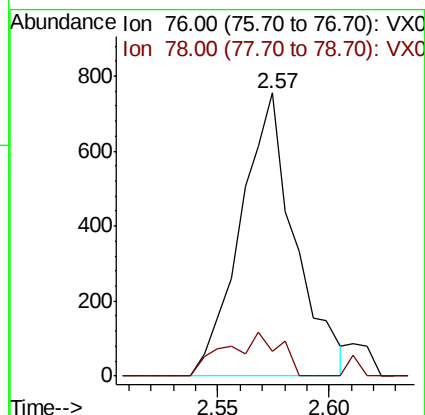
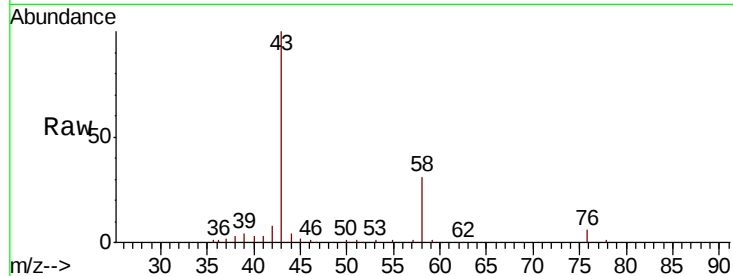




#16
Carbon Disulfide
Concen: 0.326 ug/l
RT: 2.57 min Scan# 233
Delta R.T. 0.01 min
Lab File: VX009475.D
Acq: 10 May 2019 12:04

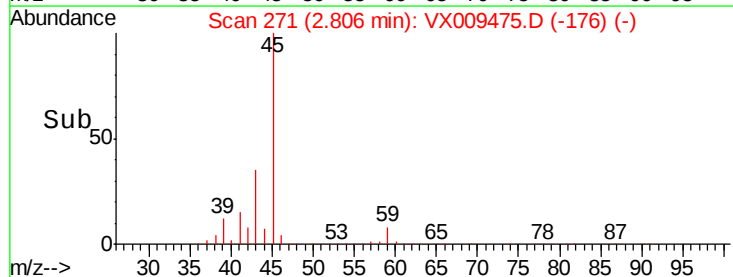
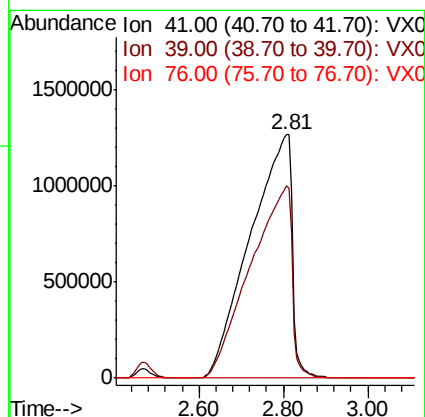
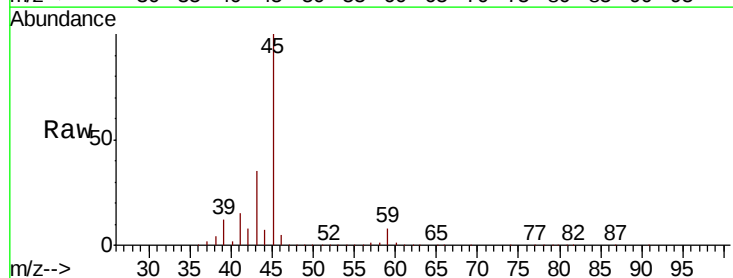
Instrument :
MSVOA_X
ClientSampleId :
SEWER-OUTLET-01

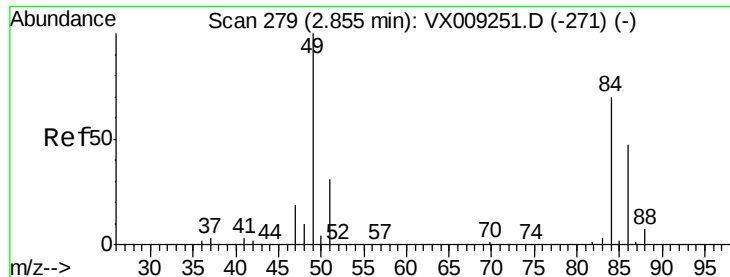
Tot Ion: 76 Resp: 1281
Ion Ratio Lower Upper
76 100
78 8.9 7.4 11.2



#17
Allyl chloride
Concen: 2472.153 ug/l
RT: 2.81 min Scan# 271
Delta R.T. 0.08 min
Lab File: VX009475.D
Acq: 10 May 2019 12:04

Tgt Ion: 41 Resp: 8623402
Ion Ratio Lower Upper
41 100
39 78.8 31.6 94.7
76 0.0 15.1 45.3#

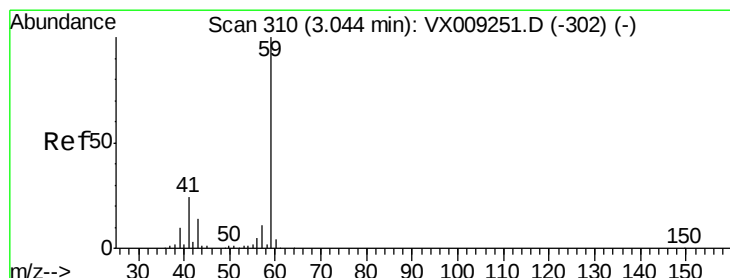
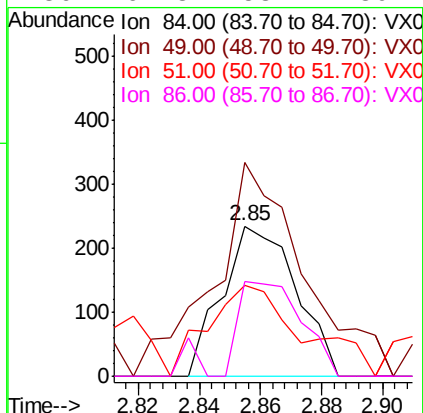
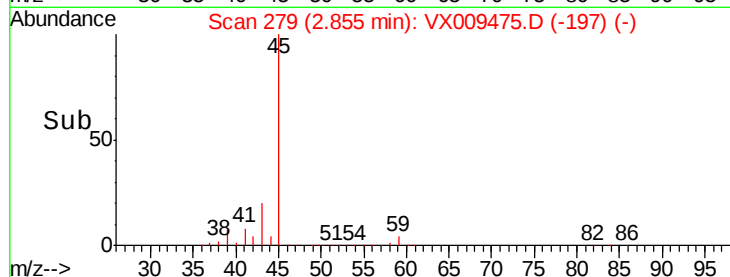
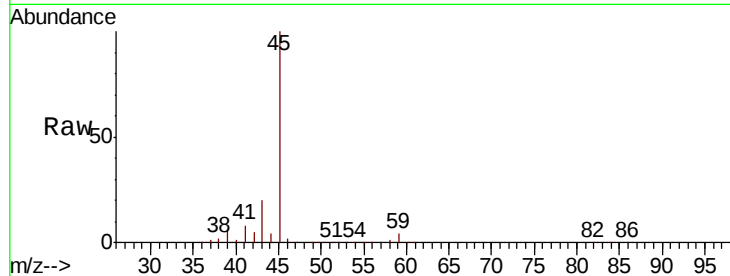




#18
Methvlene Chloride
Concen: 0.223 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX009475.D
Acq: 10 May 2019 12:04

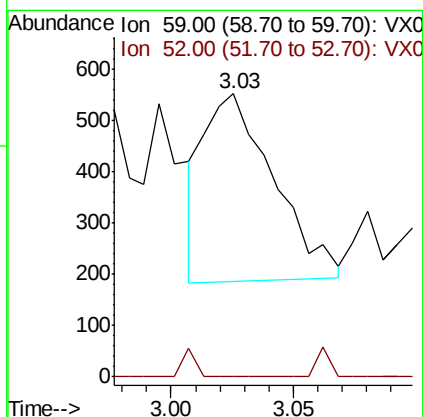
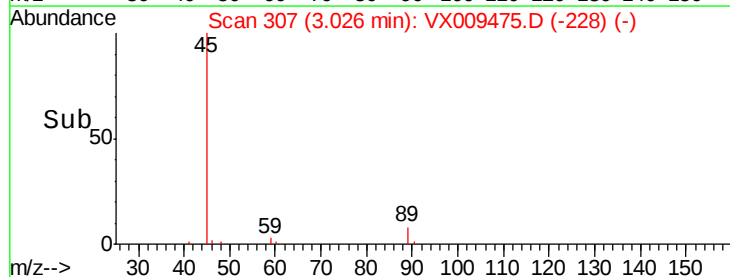
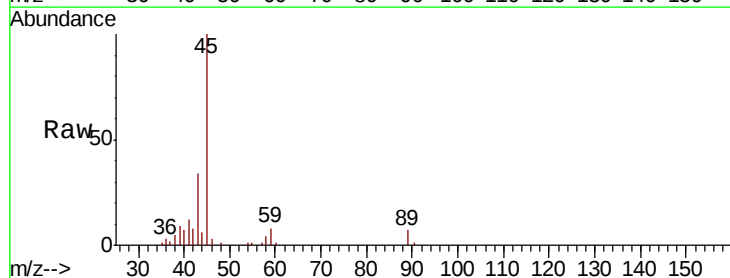
Instrument :
MSVOA_X
ClientSampleId :
SEWER-OUTLET-01

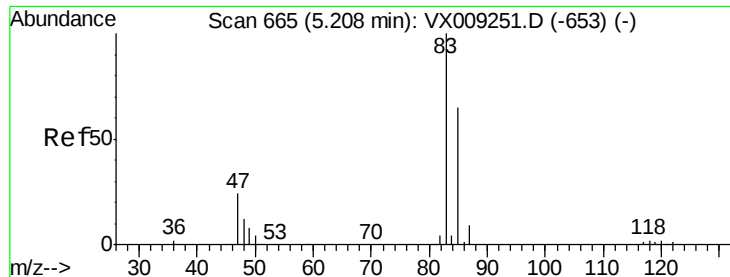
Tot Ion: 84 Resp: 391
Ion Ratio Lower Upper
84 100
49 139.3 114.6 171.8
51 35.0 35.5 53.3#
86 62.8 53.4 80.2



#23
tert-Butyl Alcohol
Concen: 1.440 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.02 min
Lab File: VX009475.D
Acq: 10 May 2019 12:04

Tgt Ion: 59 Resp: 723
Ion Ratio Lower Upper
59 100
52 0.0 0.2 0.2#

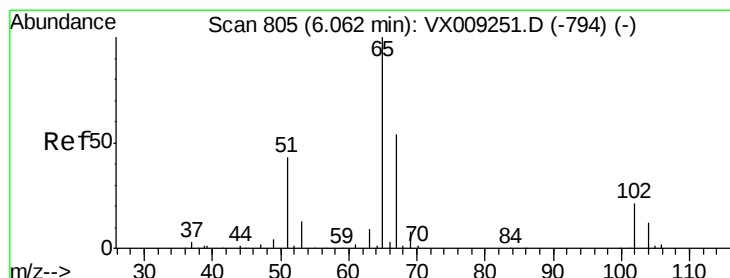
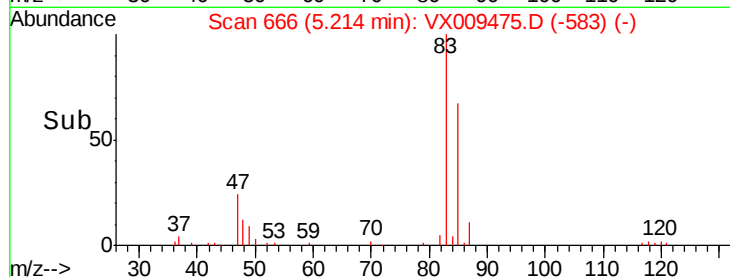
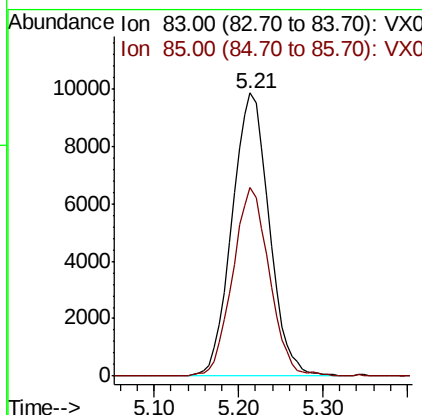
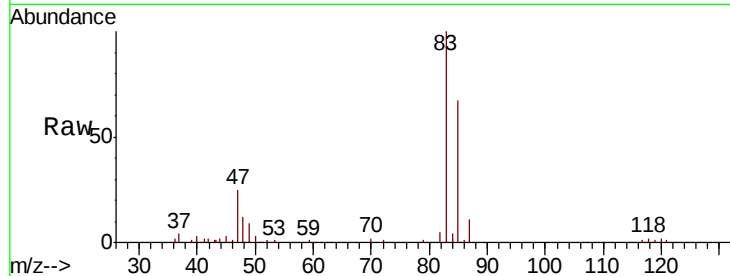




#25
Chloroform
Concen: 9.692 ug/l
RT: 5.21 min Scan# 666
Delta R.T. 0.01 min
Lab File: VX009475.D
Acq: 10 May 2019 12:04

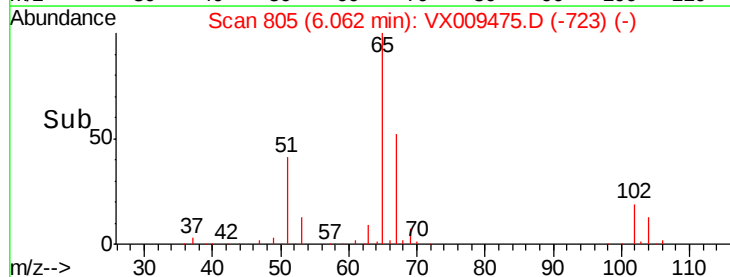
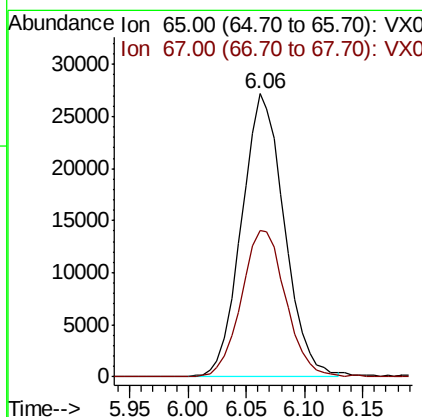
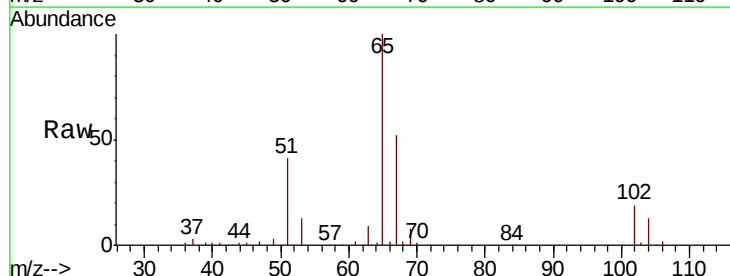
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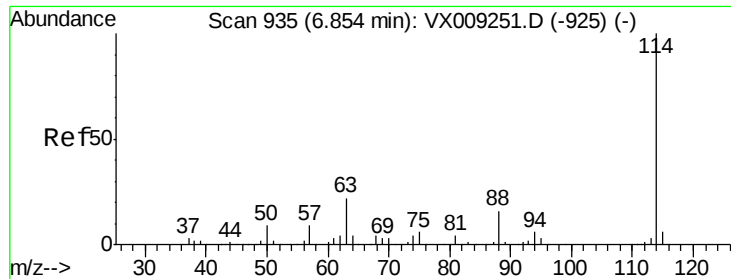
Tot Ion: 83 Resp: 29401
Ion Ratio Lower Upper
83 100
85 66.6 51.9 77.9



#27
1,2-Dichloroethane-d4
Concen: 31.599 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX009475.D
Acq: 10 May 2019 12:04

Tgt Ion: 65 Resp: 69631
Ion Ratio Lower Upper
65 100
67 53.5 43.1 64.7

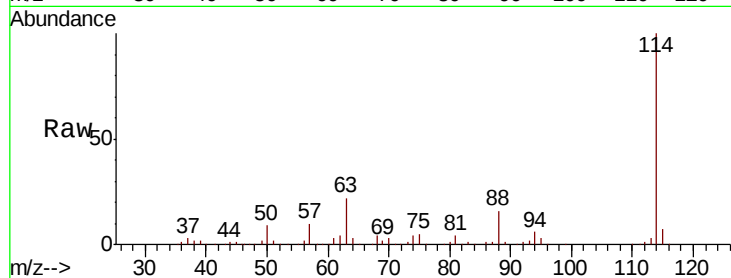




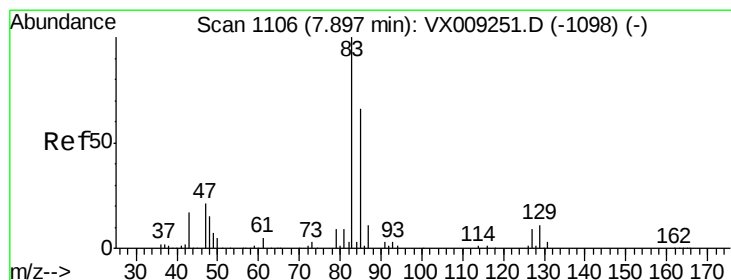
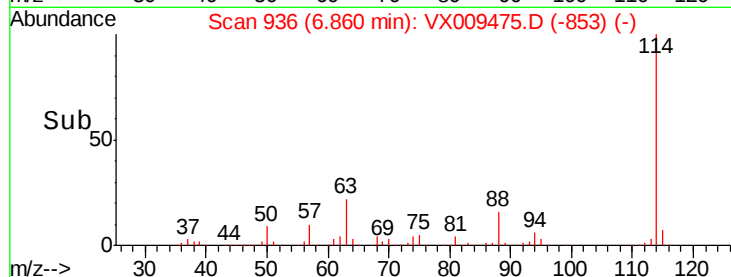
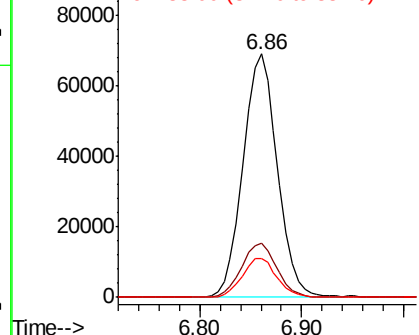
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.01 min
 Lab File: VX009475.D
 Acq: 10 May 2019 12:04

Instrument :
 MSVOA_X
 ClientSampleId :
 SEWER-OUTLET-01

Tot Ion:114 Resp: 160929
 Ion Ratio Lower Upper
 114 100
 63 22.8 18.0 27.0
 88 16.2 13.4 20.0

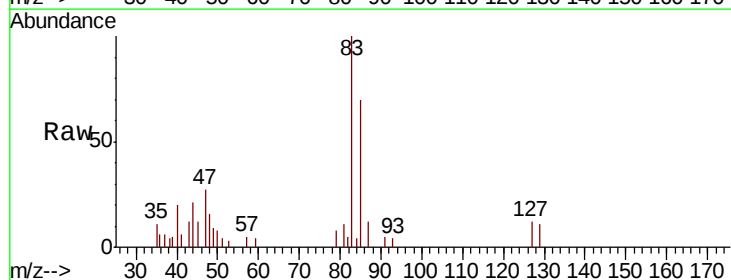


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 88.00 (87.70 to 88.70): VX0

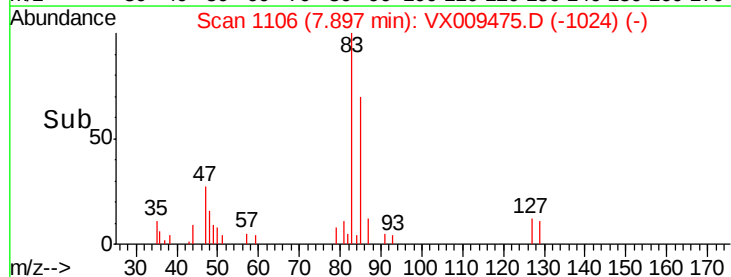
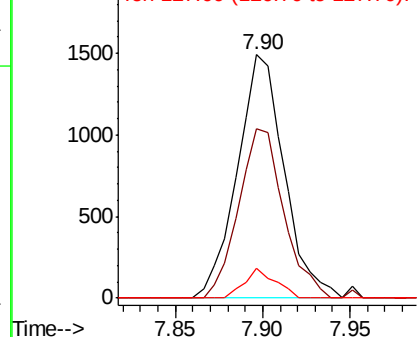


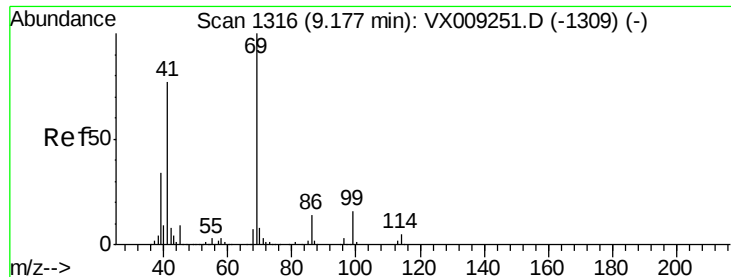
#41
 Bromodichloromethane
 Concen: 1.159 ug/l
 RT: 7.90 min Scan# 1106
 Delta R.T. 0.00 min
 Lab File: VX009475.D
 Acq: 10 May 2019 12:04

Tgt Ion: 83 Resp: 2785
 Ion Ratio Lower Upper
 83 100
 85 69.7 52.6 79.0
 127 12.0 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





#51

Ethyl methacrylate

Concen: 0.216 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. -0.46 min

Lab File: VX009475.D

Acq: 10 May 2019 12:04

Instrument :

MSVOA_X

ClientSampleId :

SEWER-OUTLET-01

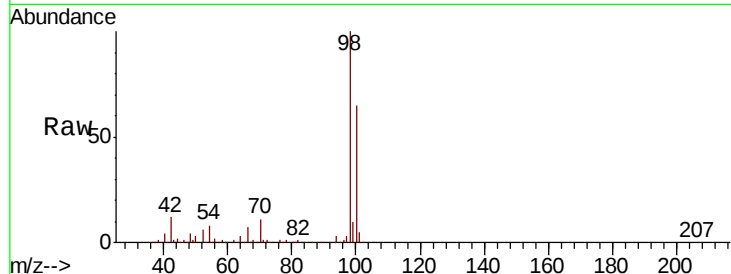
Tot Ion: 69 Resp: 718

Ion Ratio Lower Upper

69 100

41 75.9 38.4 115.2

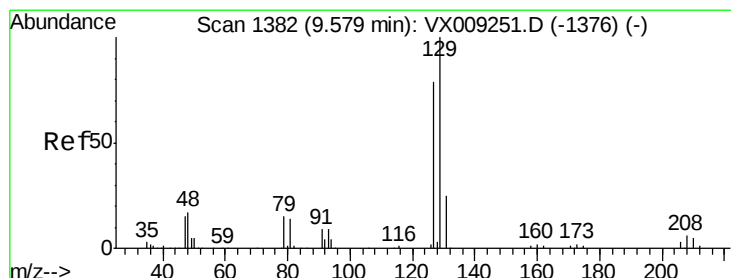
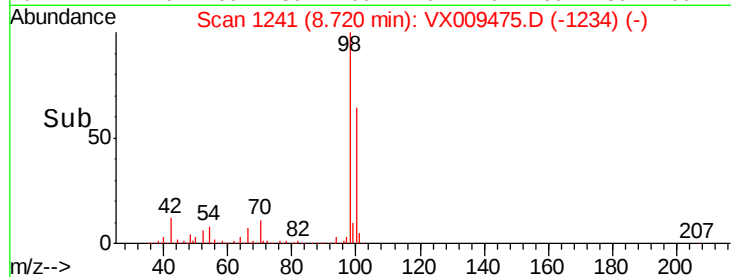
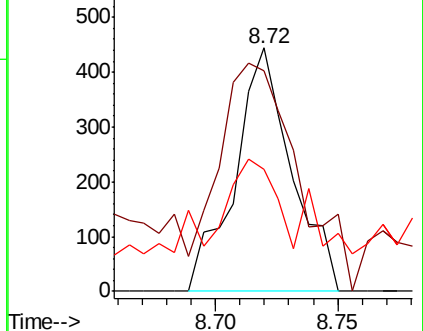
39 26.4 17.2 51.5



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: 0.466 ug/l

RT: 9.59 min Scan# 1383

Delta R.T. 0.01 min

Lab File: VX009475.D

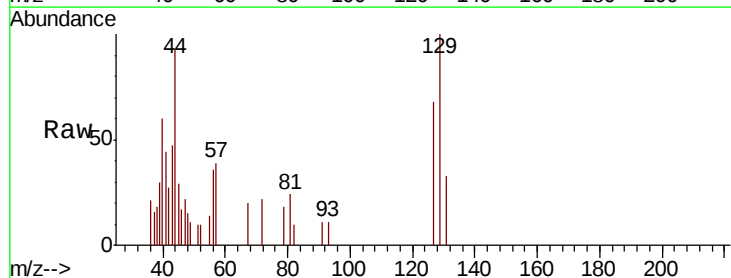
Acq: 10 May 2019 12:04

Tgt Ion: 129 Resp: 836

Ion Ratio Lower Upper

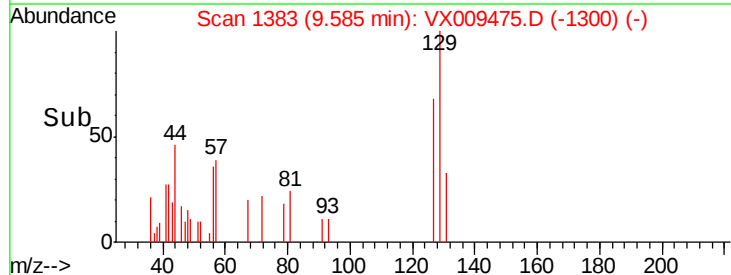
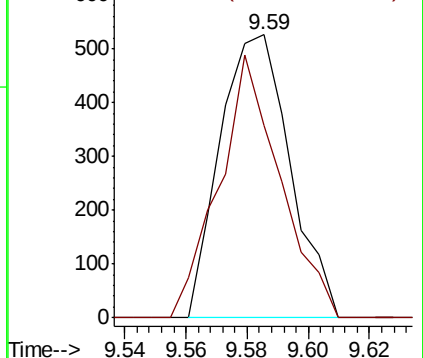
129 100

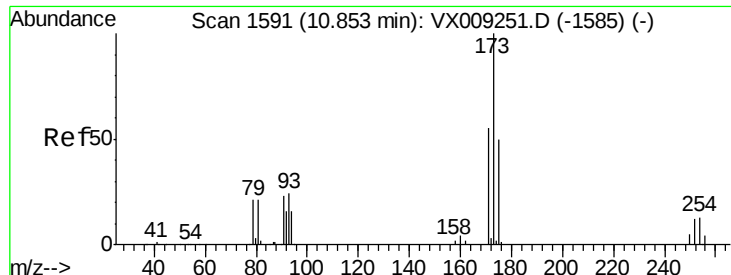
127 80.9 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#56

Bromoform

Concen: 3.087 ug/l

RT: 10.85 min Scan# 1591

Delta R.T. 0.00 min

Lab File: VX009475.D

Acq: 10 May 2019 12:04

Instrument :

MSVOA_X

ClientSampleId :

SEWER-OUTLET-01

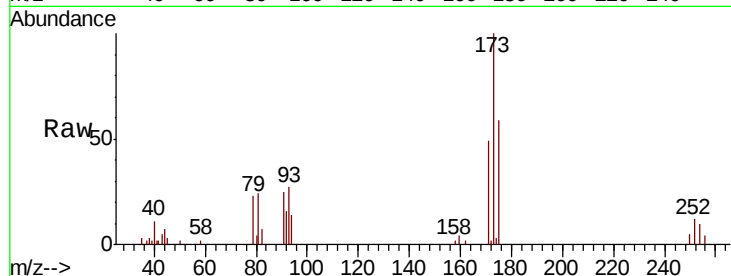
Tot Ion:173 Resp: 4254

Ion Ratio Lower Upper

173 100

175 51.4 39.4 59.2

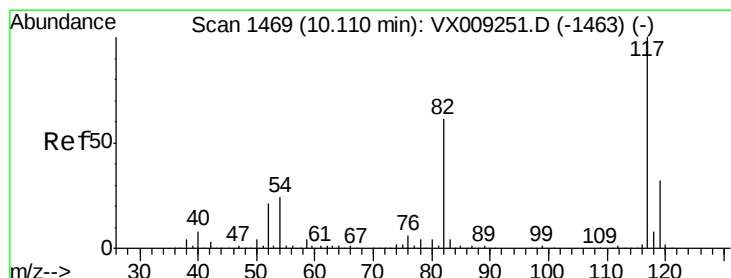
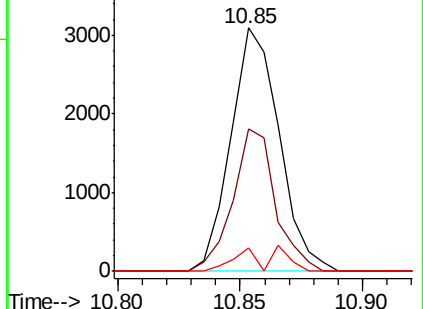
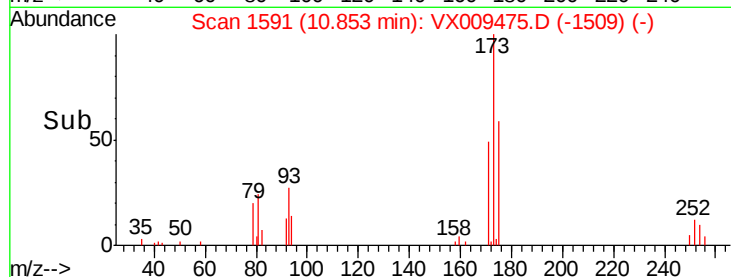
254 4.6 9.9 14.9#



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: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009475.D

Acq: 10 May 2019 12:04

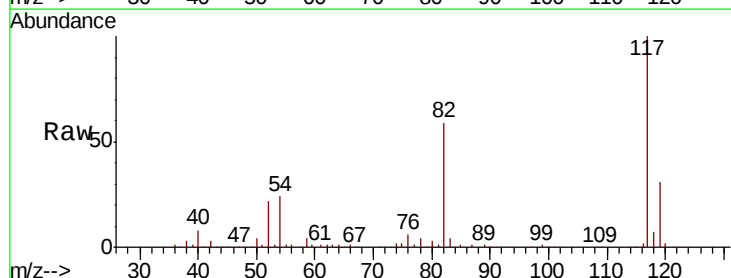
Tgt Ion:117 Resp: 140946

Ion Ratio Lower Upper

117 100

82 58.2 47.8 71.8

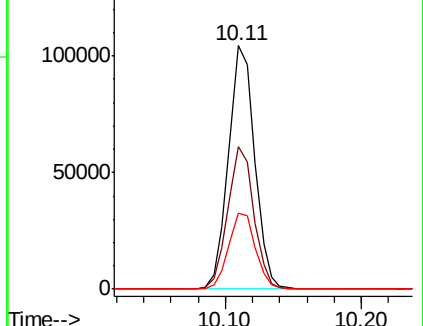
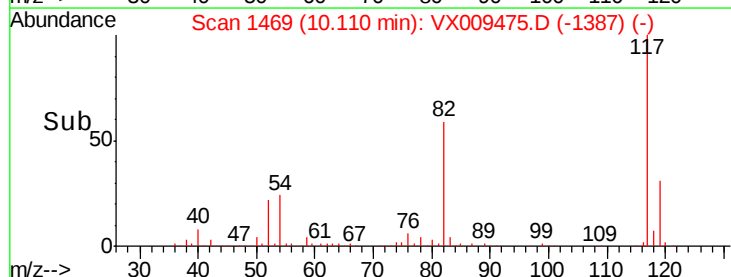
119 32.1 25.6 38.4

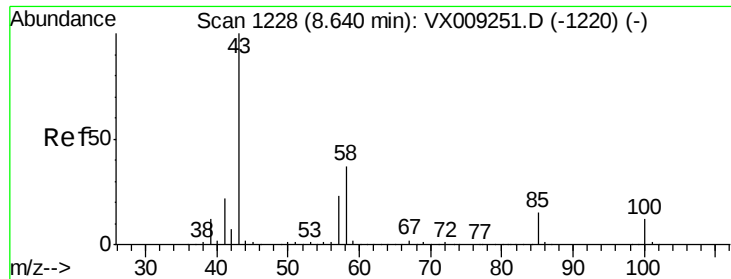


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V





#58

4-Methyl-2-Pentanone

Concen: 0.353 ug/l

RT: 8.63 min Scan# 1227

Delta R.T. -0.01 min

Lab File: VX009475.D

Acq: 10 May 2019 12:04

Instrument :

MSVOA_X

ClientSampleId :

SEWER-OUTLET-01

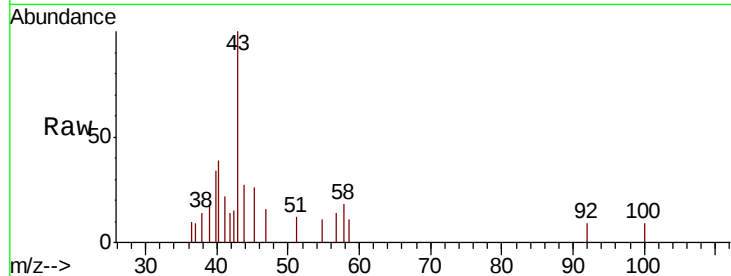
Tot Ion: 43 Resp: 1223

Ion Ratio Lower Upper

43 100

58 16.8 29.4 44.0#

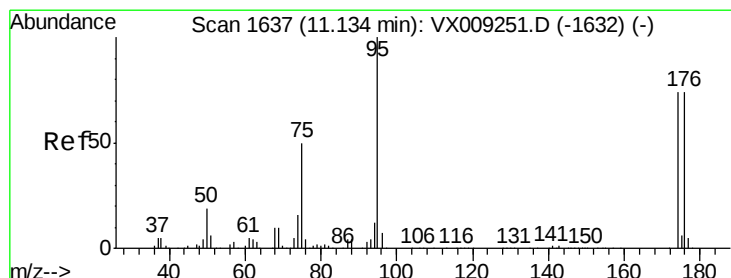
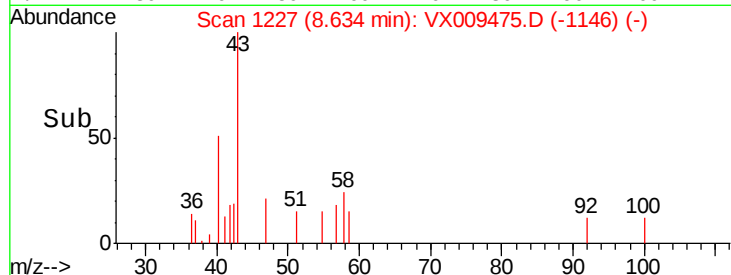
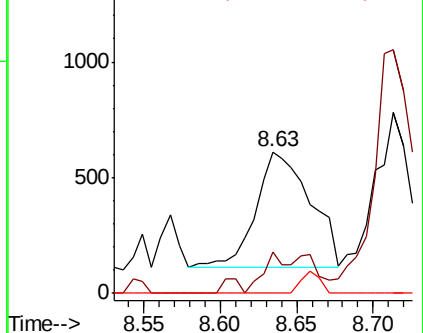
85 0.0 11.8 17.8#



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: 28.435 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009475.D

Acq: 10 May 2019 12:04

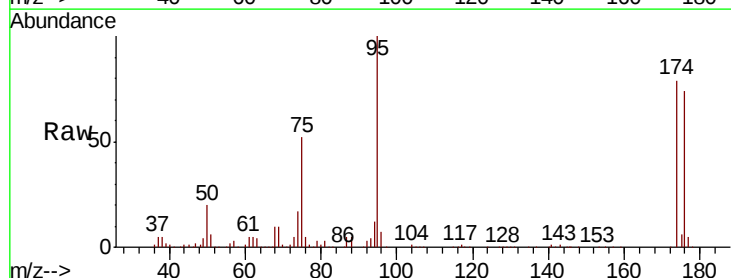
Tgt Ion: 95 Resp: 68103

Ion Ratio Lower Upper

95 100

174 82.1 63.6 95.4

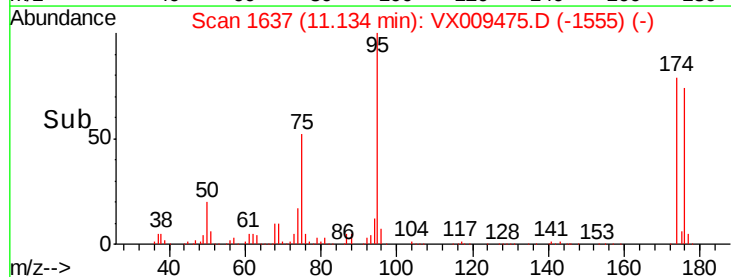
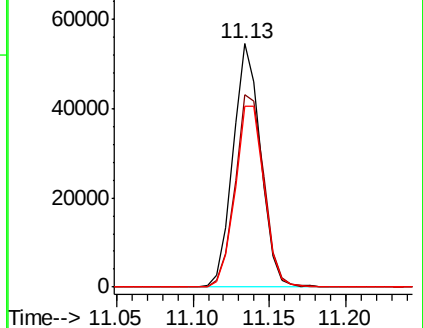
176 78.4 62.4 93.6

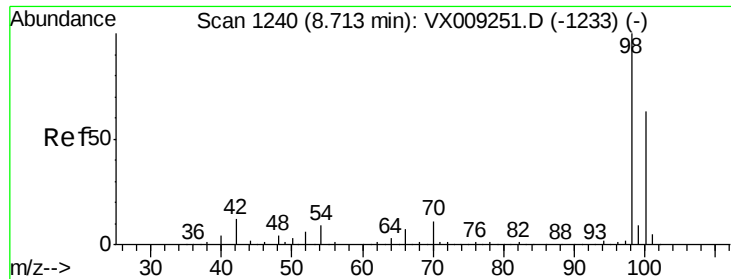


Abundance Ion 95.00 (94.70 to 95.70): VX0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#63

Toluene-d8

Concen: 29.886 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009475.D

Acq: 10 May 2019 12:04

Instrument :

MSVOA_X

ClientSampleId :

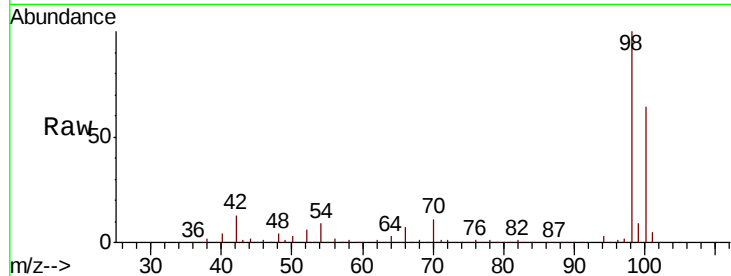
SEWER-OUTLET-01

Tot Ion: 98 Resp: 199706

Ion Ratio Lower Upper

98 100

100 64.3 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VX009251.D (-1233) (-)

Ion 100.00 (99.70 to 100.70): VX009251.D (-1233) (-)

8.71

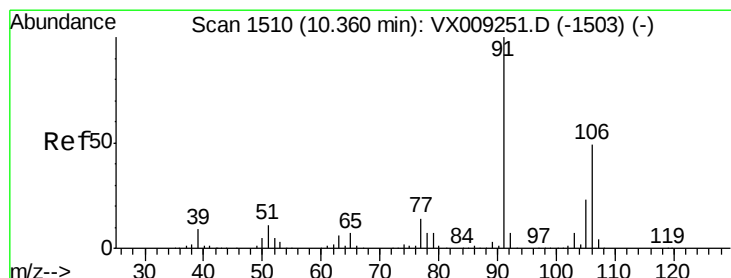
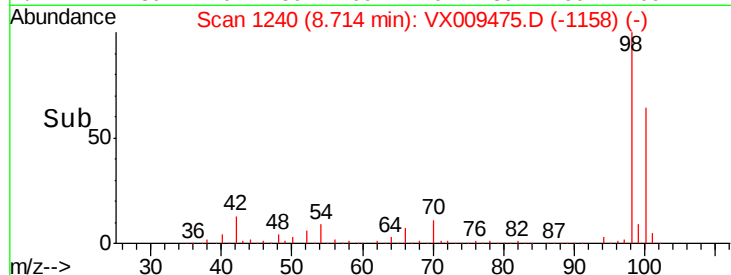
150000

100000

50000

0

Time-->



#67

m/p-Xylenes

Concen: 0.321 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX009475.D

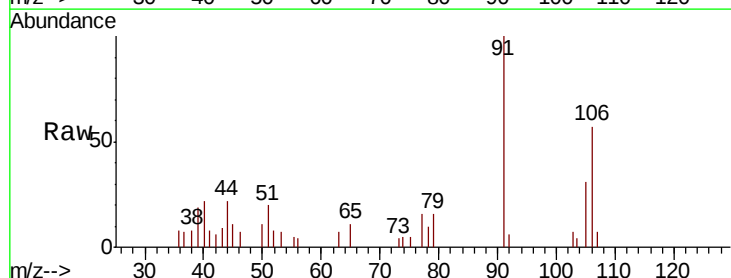
Acq: 10 May 2019 12:04

Tgt Ion:106 Resp: 982

Ion Ratio Lower Upper

106 100

91 203.7 166.8 250.2



Abundance Ion 106.00 (105.70 to 106.70): VX009251.D (-1503) (-)

Ion 91.00 (90.70 to 91.70): VX009251.D (-1503) (-)

10.36

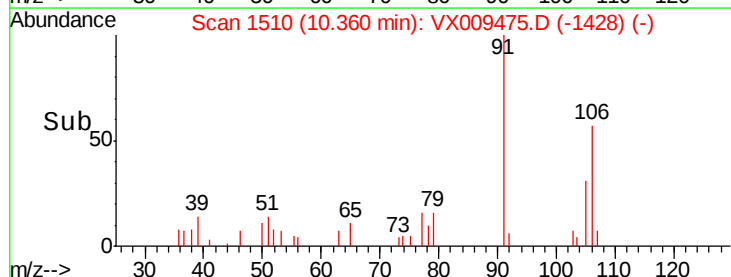
1500

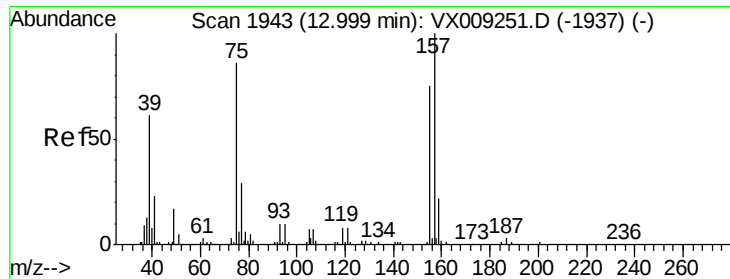
1000

500

0

Time-->





#88

1,2-Dibromo-3-Chloropropane

Concen: 0.261 ug/l

RT: 12.82 min Scan# 1913

Delta R.T. -0.18 min

Lab File: VX009475.D

Acq: 10 May 2019 12:04

Instrument :

MSVOA_X

ClientSampleId :

SEWER-OUTLET-01

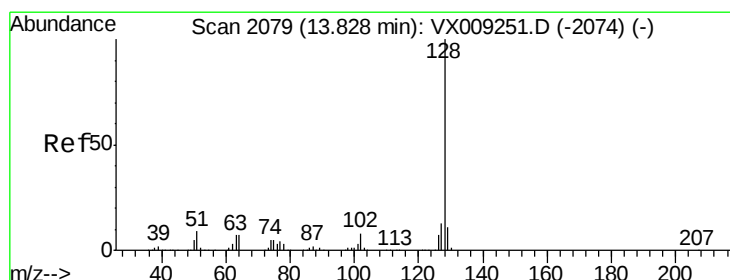
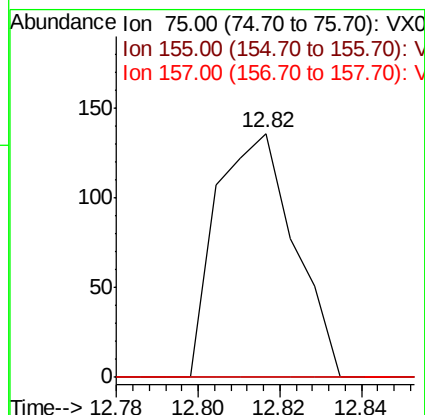
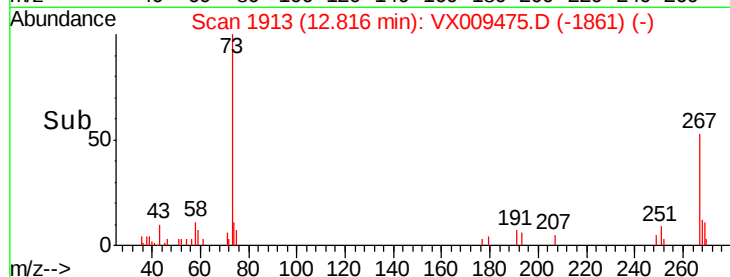
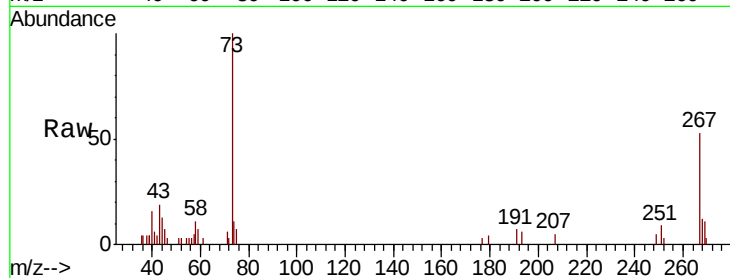
Tot Ion: 75 Resp: 180

Ion Ratio Lower Upper

75 100

155 0.0 65.9 98.9#

157 0.0 85.2 127.8#



#91

Naphthalene

Concen: 0.243 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.01 min

Lab File: VX009475.D

Acq: 10 May 2019 12:04

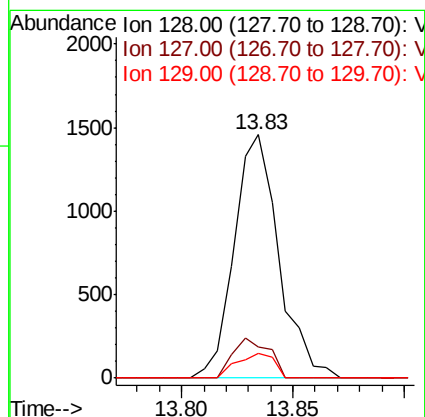
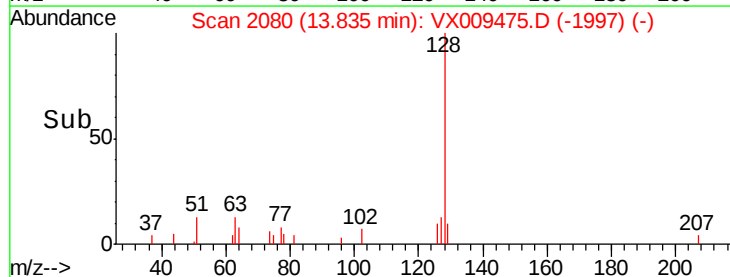
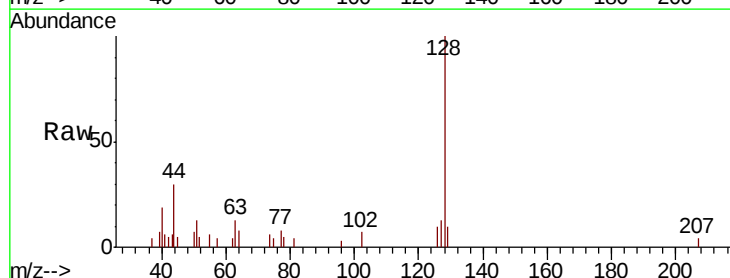
Tgt Ion: 128 Resp: 2038

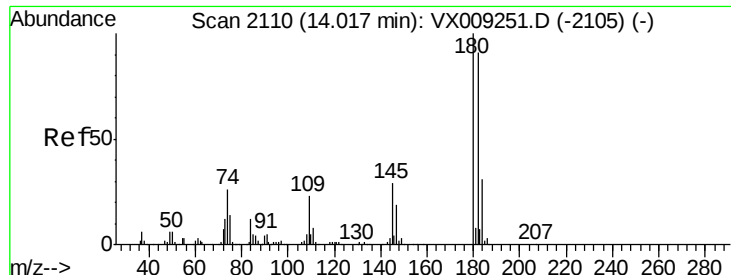
Ion Ratio Lower Upper

128 100

127 13.2 10.5 15.7

129 8.2 8.7 13.1#





#92
 1,2,3-Trichlorobenzene
 Concen: 0.208 ug/l
 RT: 14.02 min Scan# 2111
 Delta R.T. 0.01 min
 Lab File: VX009475.D
 Acq: 10 May 2019 12:04

Instrument :
 MSVOA_X
 ClientSampleId :
 SEWER-OUTLET-01

Tot Ion	Ratio	Lower	Upper
180	100		
182	46.8	0.0	189.0
145	35.4	0.0	61.6

