

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102119\
 Data File : VX013160.D
 Acq On : 21 Oct 2019 18:27
 Operator : JC/SP
 Sample : K5460-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SEWER-OUTLET-01(DSN-001)

Quant Time: Oct 22 01:59:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 22 01:53:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	27285	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	151816	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	133721	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	61961	28.85	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.17%
60) 4-Bromofluorobenzene	11.13	95	64617	27.75	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	92.50%
63) Toluene-d8	8.71	98	180008	30.27	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.90%

Target Compounds

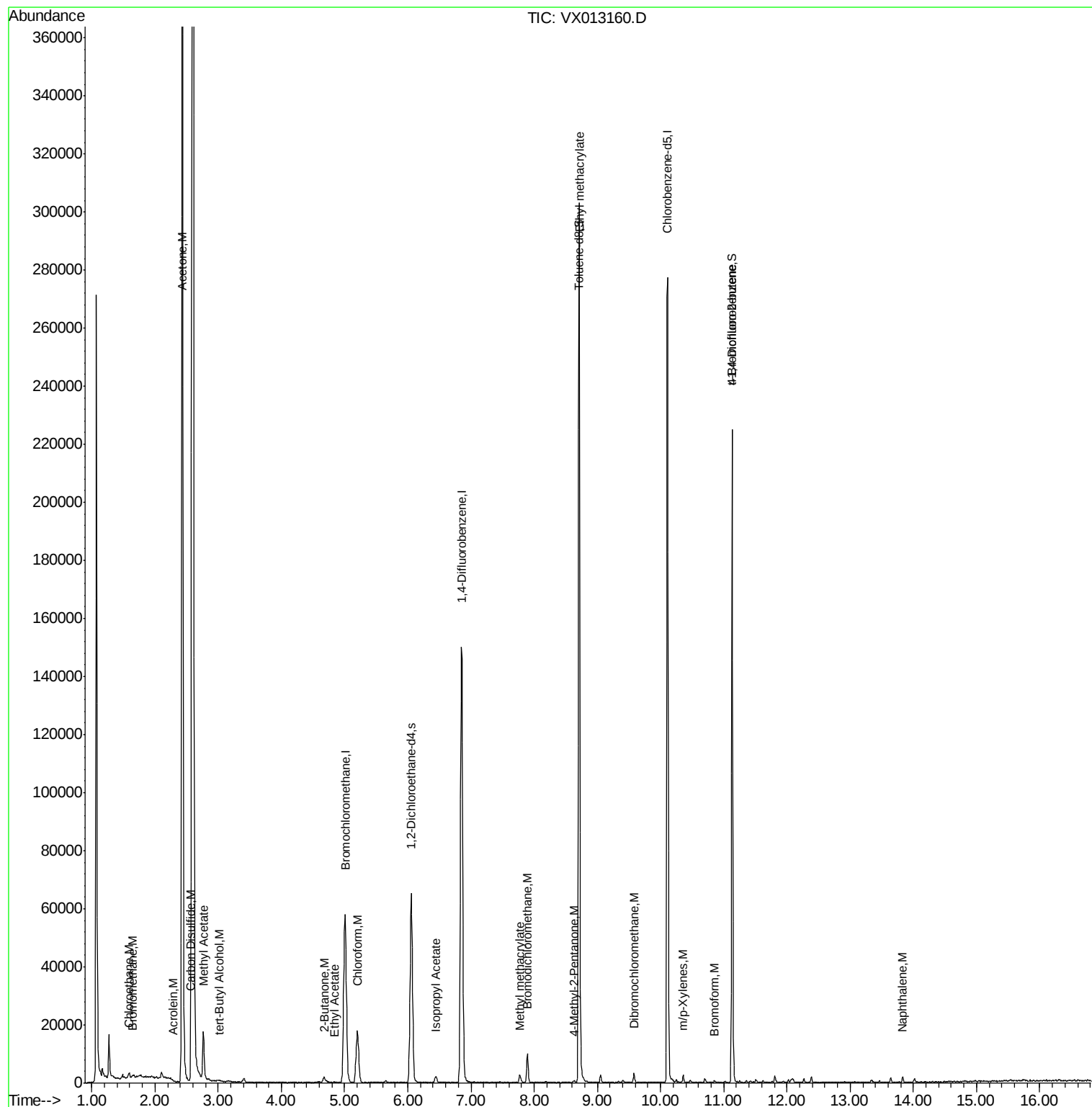
					Ovalue	
5) Bromomethane	1.64	94	237	0.249	ug/l #	58
6) Chloroethane	1.59	64	249	0.221	ug/l	90
12) Methyl Acetate	2.76	43	18301	8.467	ug/l	99
13) Acrolein	2.29	56	83	0.258	ug/l #	15
15) Acetone	2.43	58	126617	425.150	ug/l	94
16) Carbon Disulfide	2.56	76	1185	0.265	ug/l #	80
23) tert-Butyl Alcohol	3.02	59	109	0.229	ug/l #	100
25) Chloroform	5.20	83	21445	6.527	ug/l	92
30) 2-Butanone	4.68	43	2467	1.994	ug/l #	93
41) Bromodichloromethane	7.89	83	6386	2.661	ug/l #	97
43) Ethyl Acetate	4.84	43	520	0.230	ug/l #	77
44) Isopropyl Acetate	6.45	43	2292	0.604	ug/l #	83
46) Methyl methacrylate	7.78	41	1450	0.777	ug/l	95
51) Ethyl methacrylate	8.72	69	764	0.277	ug/l	89
53) Dibromochloromethane	9.57	129	1672	0.882	ug/l	90
56) Bromoform	10.85	173	353	0.262	ug/l #	60
58) 4-Methyl-2-Pentanone	8.64	43	746	0.331	ug/l #	41
67) m/p-Xylenes	10.36	106	656	0.208	ug/l	85
77) t-1,4-Dichloro-2-butene	11.13	75	31584	36.953	ug/l #	9
91) Naphthalene	13.84	128	1492	0.210	ug/l #	90

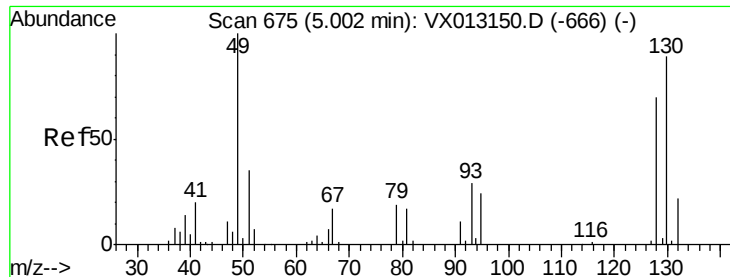
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 22 01:59:57 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X102119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Oct 22 01:53:07 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.00 min Scan# 675

Delta R.T. -0.00 min

Lab File: VX013160.D

Acq: 21 Oct 2019 18:27

Instrument :

MSVOA_X

ClientSampleId :

SEWER-OUTLET-01(DSN-001)

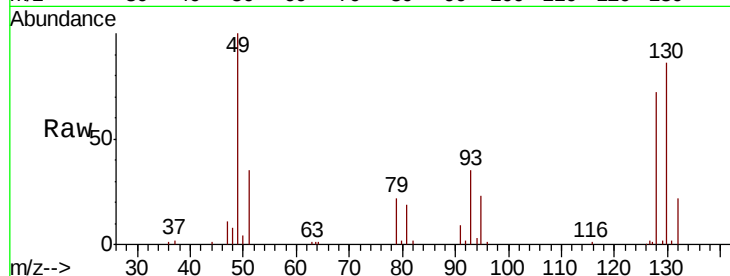
Tot Ion:128 Resp: 27285

Ion Ratio Lower Upper

128 100

49 142.6 0.0 367.3

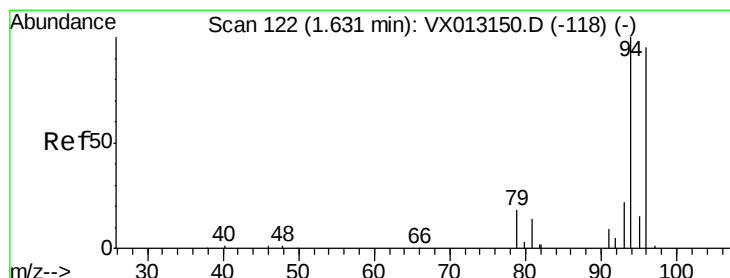
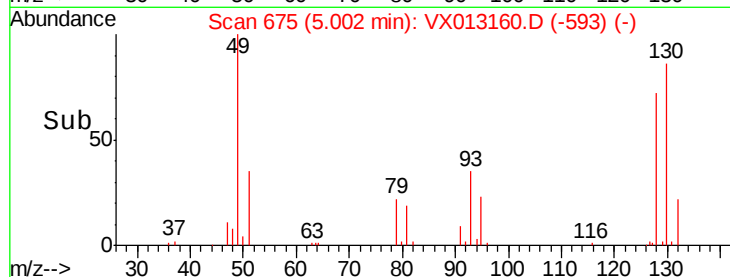
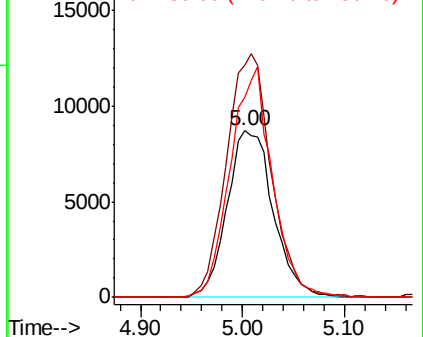
130 126.3 0.0 325.0



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: 0.249 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX013160.D

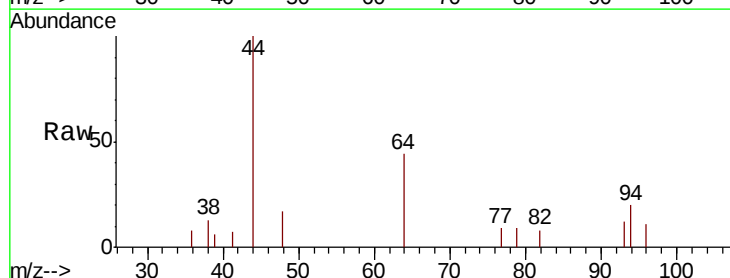
Acq: 21 Oct 2019 18:27

Tgt Ion: 94 Resp: 237

Ion Ratio Lower Upper

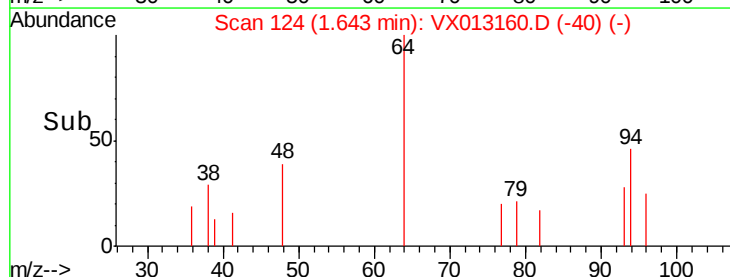
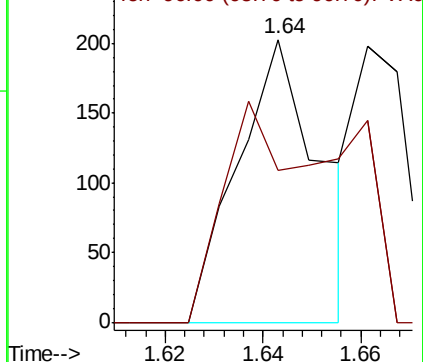
94 100

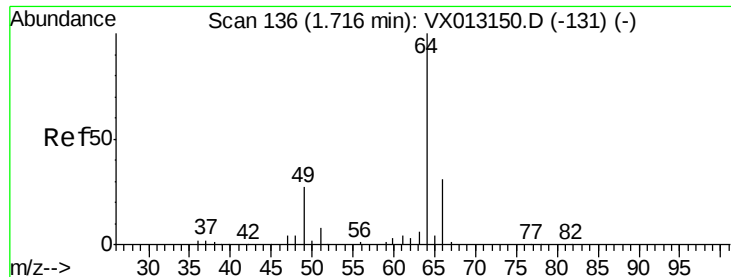
96 53.7 75.9 113.9#



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0





#6

Chloroethane

Concen: 0.221 ug/l

RT: 1.59 min Scan# 116

Delta R.T. -0.12 min

Lab File: VX013160.D

Acq: 21 Oct 2019 18:27

Instrument :

MSVOA_X

ClientSampleId :

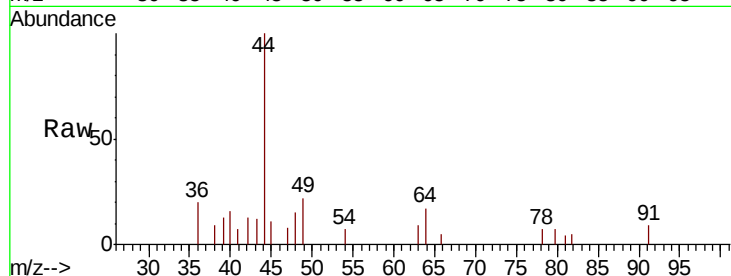
SEWER-OUTLET-01(DSN-001)

Tot Ion: 64 Resp: 249

Ion Ratio Lower Upper

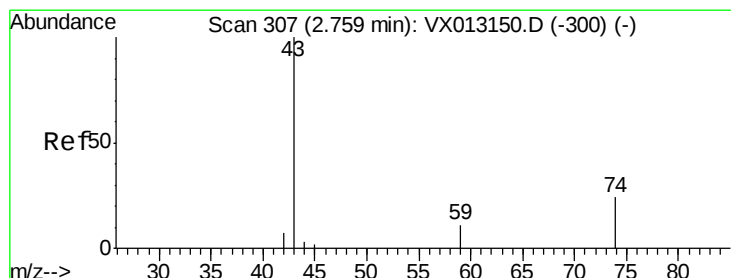
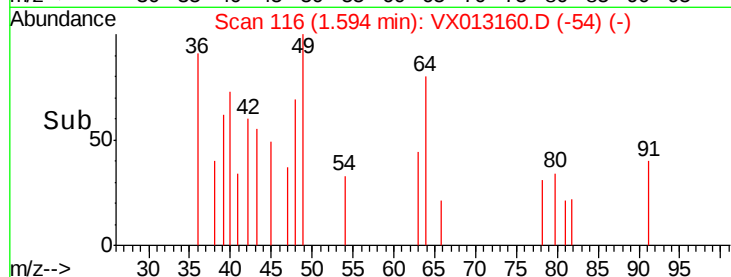
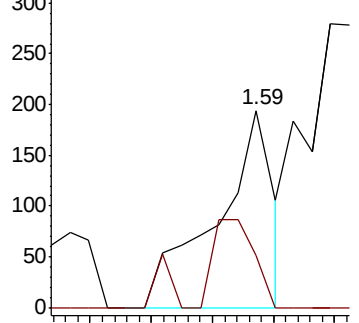
64 100

66 26.3 25.4 38.2



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0



#12

Methyl Acetate

Concen: 8.467 ug/l

RT: 2.76 min Scan# 308

Delta R.T. 0.01 min

Lab File: VX013160.D

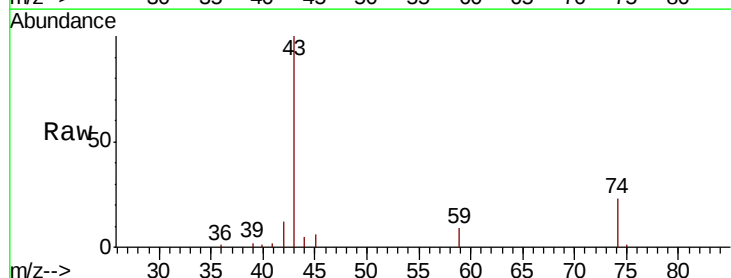
Acq: 21 Oct 2019 18:27

Tgt Ion: 43 Resp: 18301

Ion Ratio Lower Upper

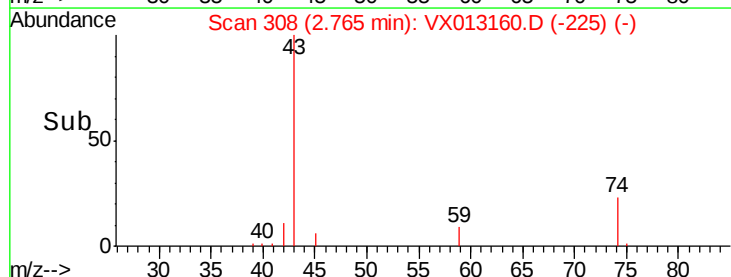
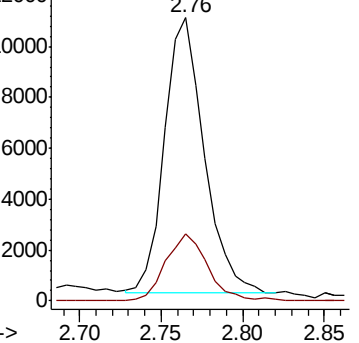
43 100

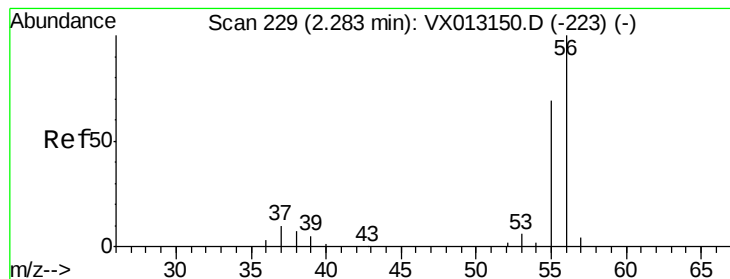
74 23.9 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#13

Acrolein

Concen: 0.258 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX013160.D

Acq: 21 Oct 2019 18:27

Instrument :

MSVOA_X

ClientSampleId :

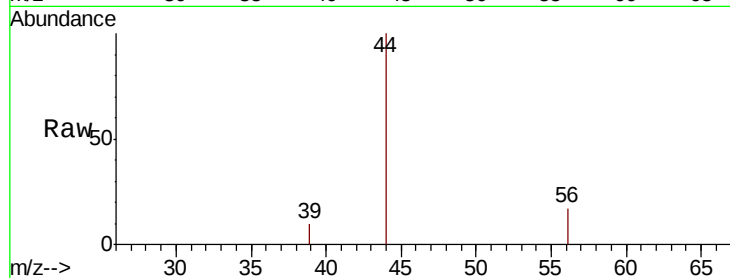
SEWER-OUTLET-01(DSN-001)

Tot Ion: 56 Resp: 83

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.8#

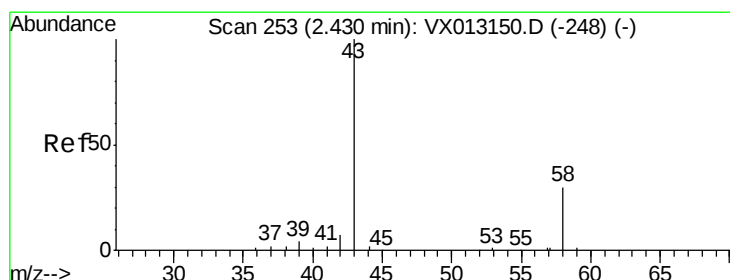
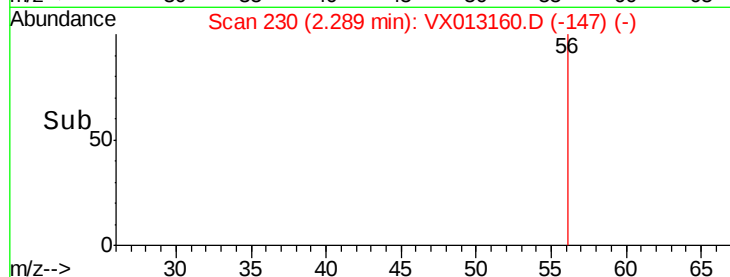


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.29

Time-->



#15

Acetone

Concen: 425.150 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013160.D

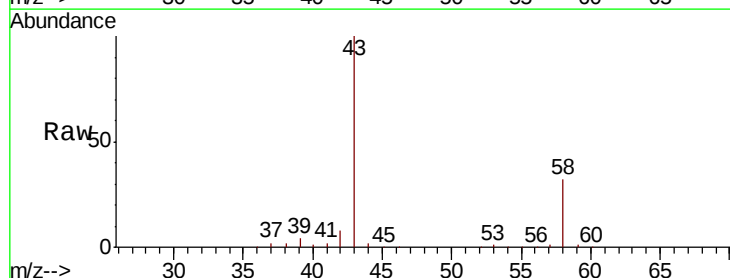
Acq: 21 Oct 2019 18:27

Tgt Ion: 58 Resp: 126617

Ion Ratio Lower Upper

58 100

43 315.9 262.8 394.2

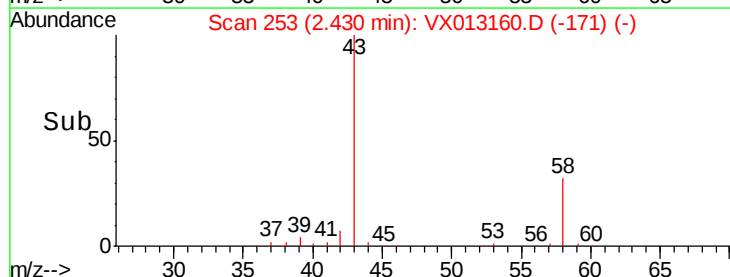


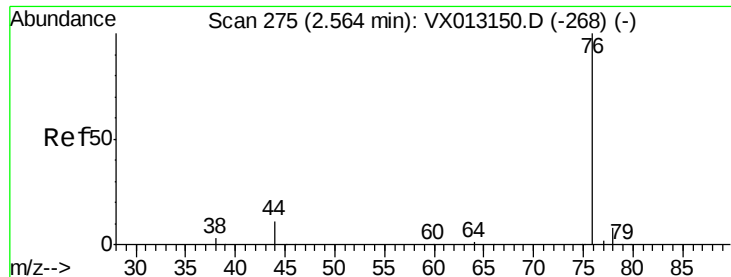
Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

2.43

Time-->

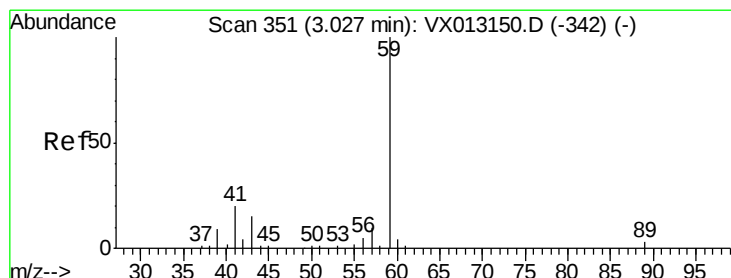
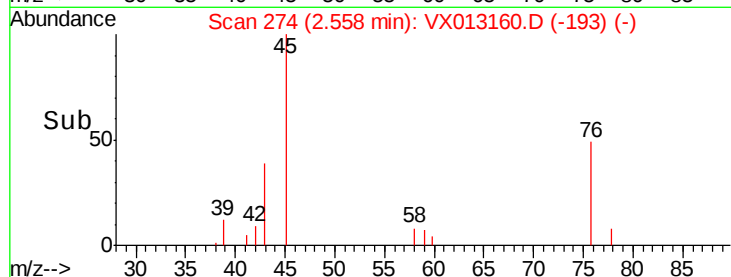
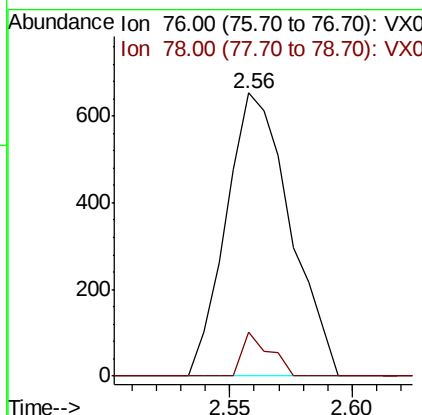
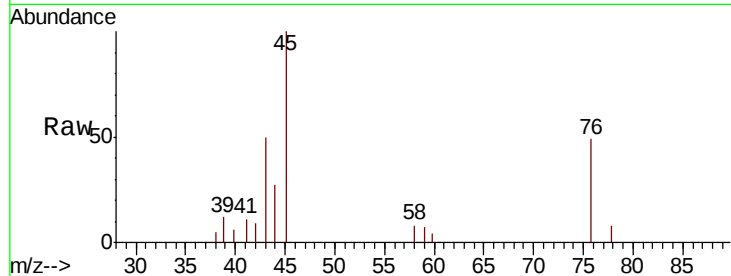




#16
Carbon Disulfide
Concen: 0.265 ug/l
RT: 2.56 min Scan# 274
Delta R.T. -0.01 min
Lab File: VX013160.D
Acq: 21 Oct 2019 18:27

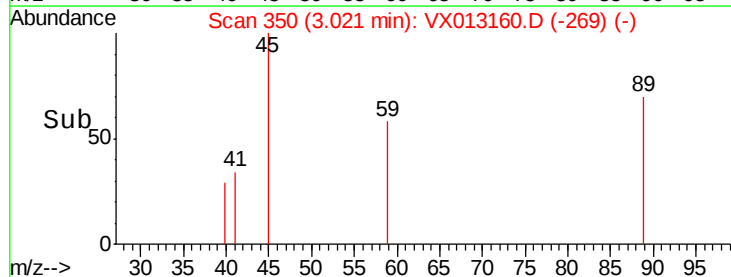
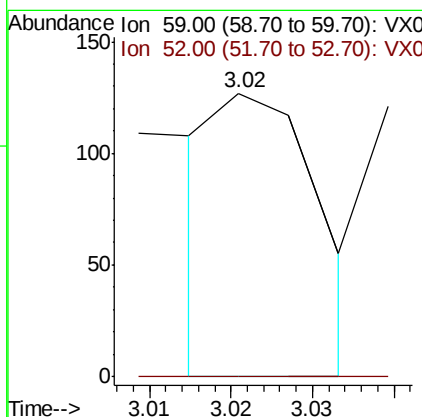
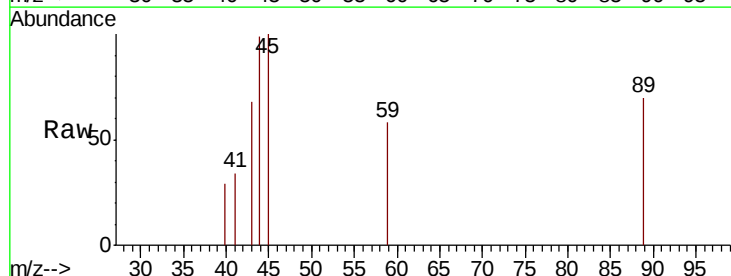
Instrument :
MSVOA_X
ClientSampleId :
SEWER-OUTLET-01(DSN-001)

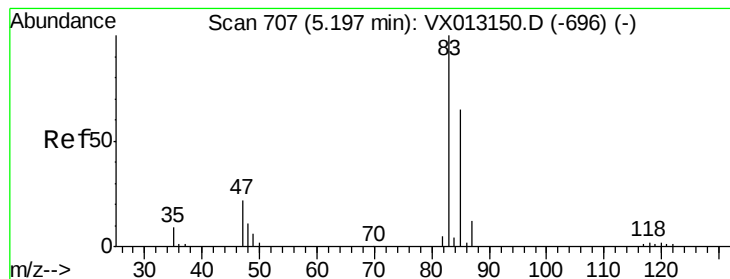
Tot Ion: 76 Resp: 1185
Ion Ratio Lower Upper
76 100
78 15.5 6.6 10.0#



#23
tert-Butyl Alcohol
Concen: 0.229 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.01 min
Lab File: VX013160.D
Acq: 21 Oct 2019 18:27

Tgt Ion: 59 Resp: 109
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0





#25

Chloroform

Concen: 6.527 ug/l

RT: 5.20 min Scan# 708

Delta R.T. 0.01 min

Lab File: VX013160.D

Acq: 21 Oct 2019 18:27

Instrument :

MSVOA_X

ClientSampleId :

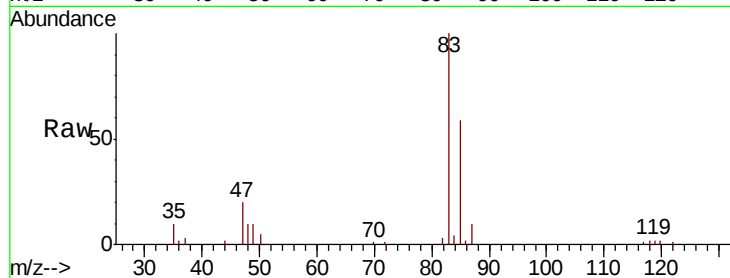
SEWER-OUTLET-01(DSN-001)

Tot Ion: 83 Resp: 21445

Ion Ratio Lower Upper

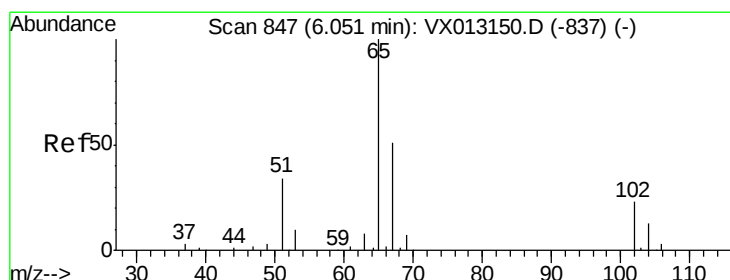
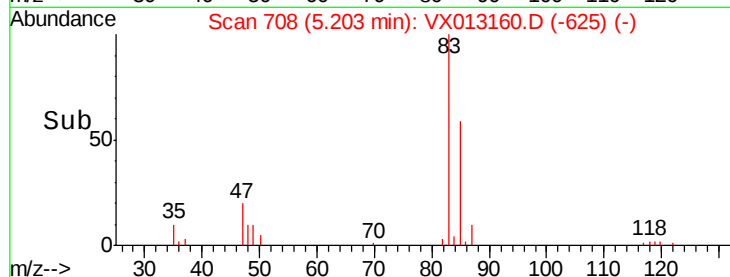
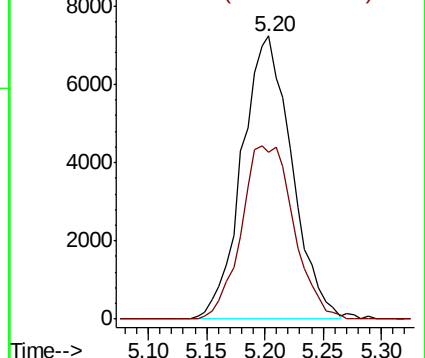
83 100

85 58.8 52.0 78.0



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: 28.847 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX013160.D

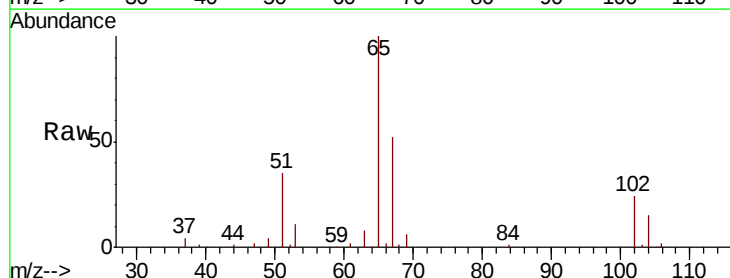
Acq: 21 Oct 2019 18:27

Tgt Ion: 65 Resp: 61961

Ion Ratio Lower Upper

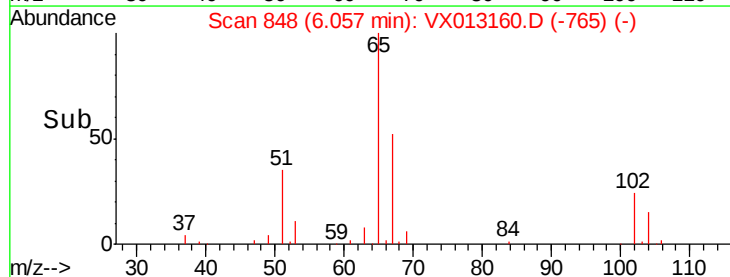
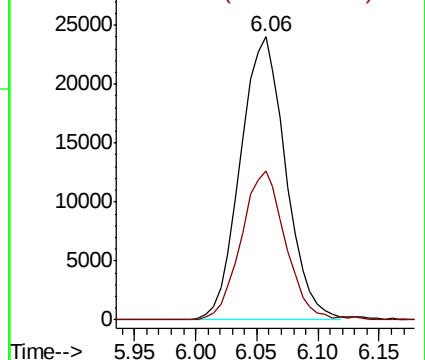
65 100

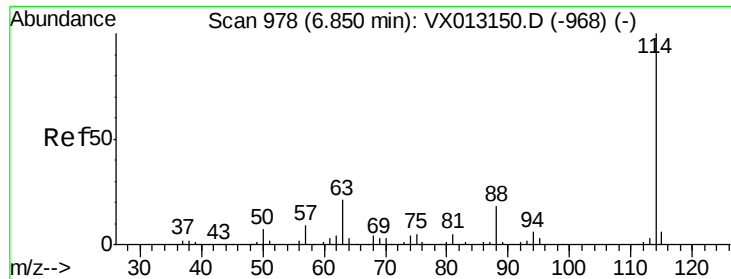
67 51.3 42.2 63.4



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

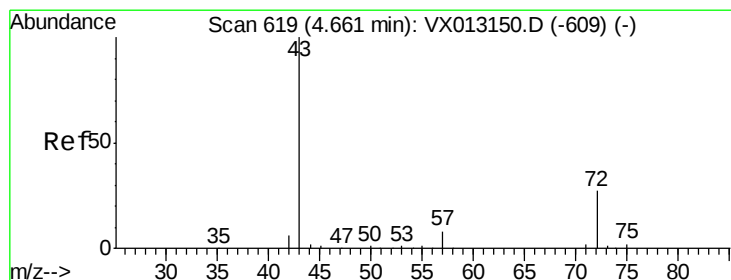
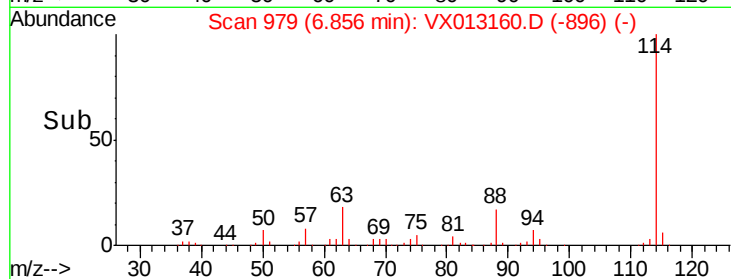
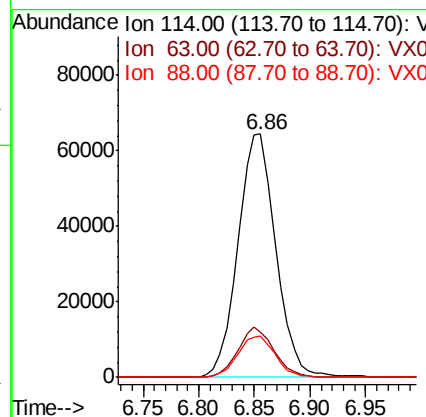
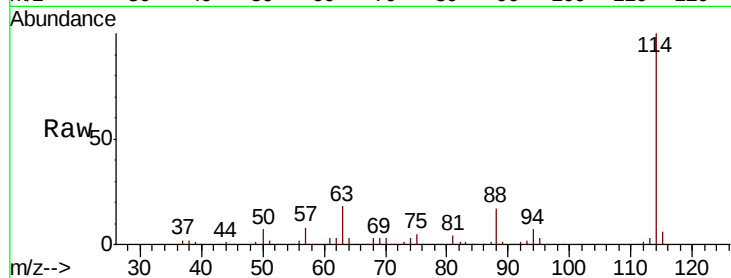




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.86 min Scan# 979
 Delta R.T. 0.01 min
 Lab File: VX013160.D
 Acq: 21 Oct 2019 18:27

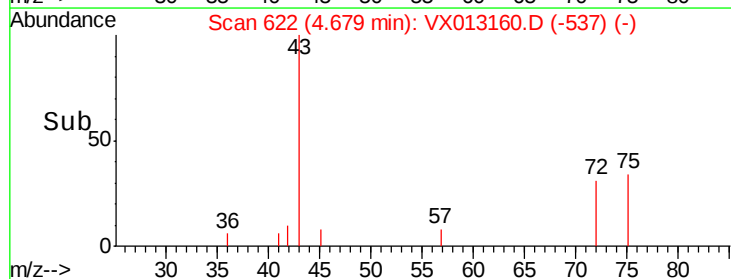
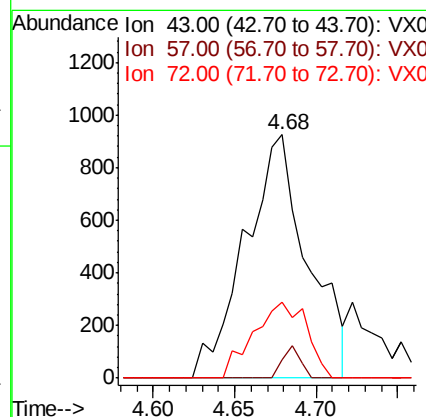
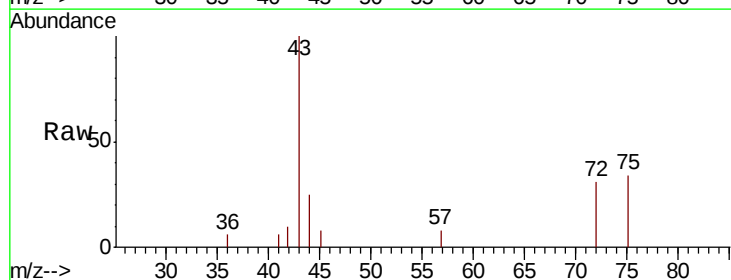
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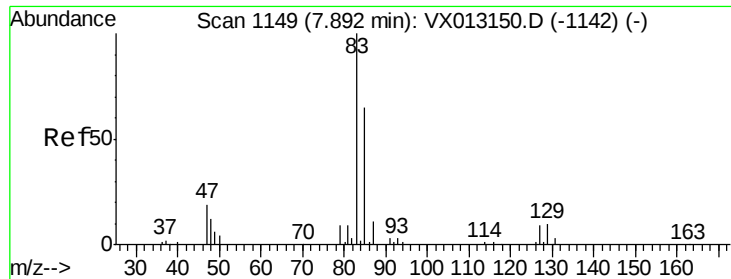
Tot Ion:114 Resp: 151816
 Ion Ratio Lower Upper
 114 100
 63 19.7 16.1 24.1
 88 17.0 13.7 20.5



#30
 2-Butanone
 Concen: 1.994 ug/l
 RT: 4.68 min Scan# 622
 Delta R.T. 0.02 min
 Lab File: VX013160.D
 Acq: 21 Oct 2019 18:27

Tgt Ion: 43 Resp: 2467
 Ion Ratio Lower Upper
 43 100
 57 3.6 7.0 10.6#
 72 26.6 23.4 35.2





#41

Bromodichloromethane

Concen: 2.661 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. -0.00 min

Lab File: VX013160.D

Acq: 21 Oct 2019 18:27

Instrument :

MSVOA_X

ClientSampleId :

SEWER-OUTLET-01(DSN-001)

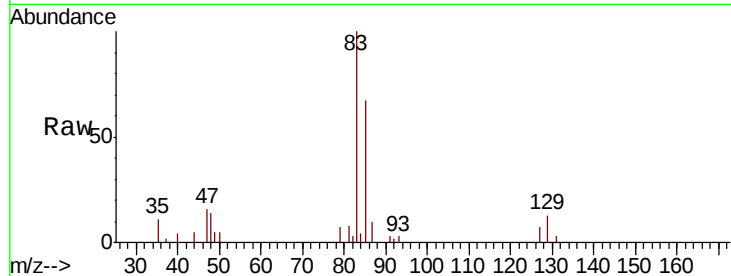
Tot Ion: 83 Resp: 6386

Ion Ratio Lower Upper

83 100

85 67.0 52.1 78.1

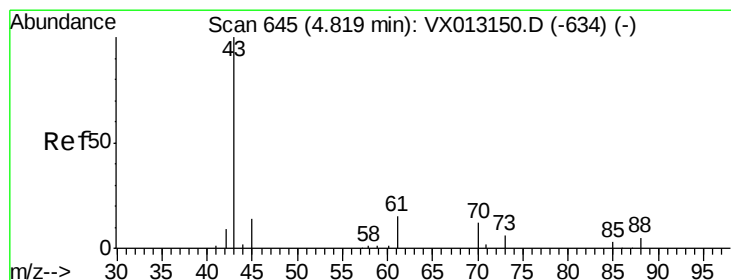
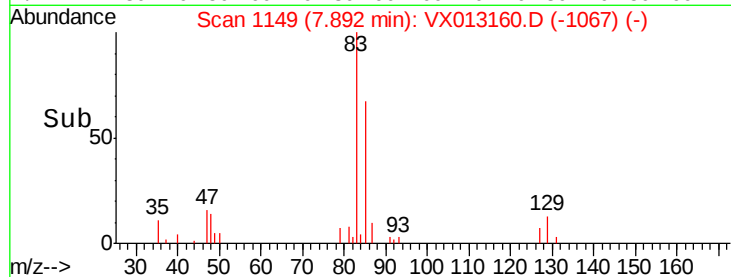
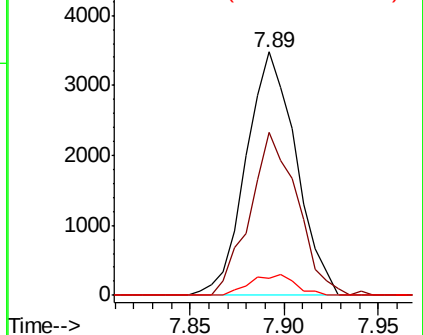
127 7.0 7.5 11.3#



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



#43

Ethyl Acetate

Concen: 0.230 ug/l

RT: 4.84 min Scan# 649

Delta R.T. 0.02 min

Lab File: VX013160.D

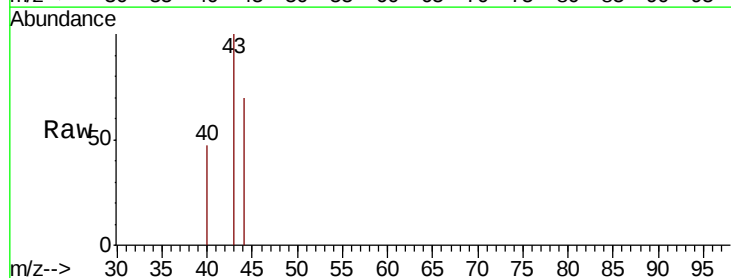
Acq: 21 Oct 2019 18:27

Tgt Ion: 43 Resp: 520

Ion Ratio Lower Upper

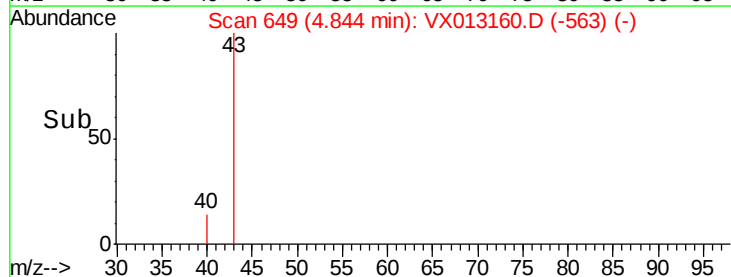
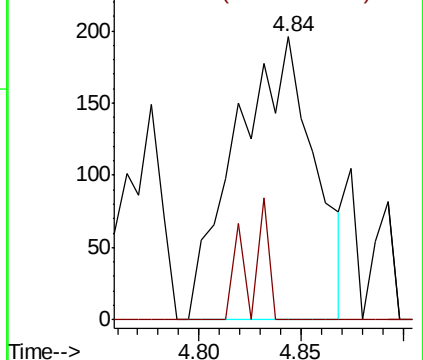
43 100

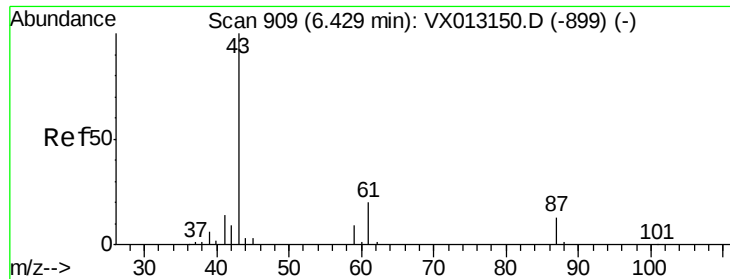
45 6.0 12.6 18.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#44

Isopropyl Acetate

Concen: 0.604 ug/l

RT: 6.45 min Scan# 912

Delta R.T. 0.02 min

Lab File: VX013160.D

Acq: 21 Oct 2019 18:27

Instrument :

MSVOA_X

ClientSampleId :

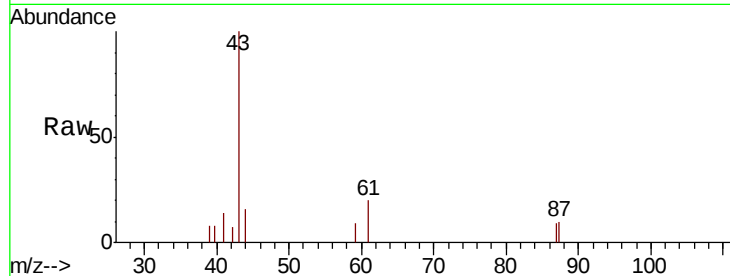
SEWER-OUTLET-01(DSN-001)

Tot Ion: 43 Resp: 2292

Ion Ratio Lower Upper

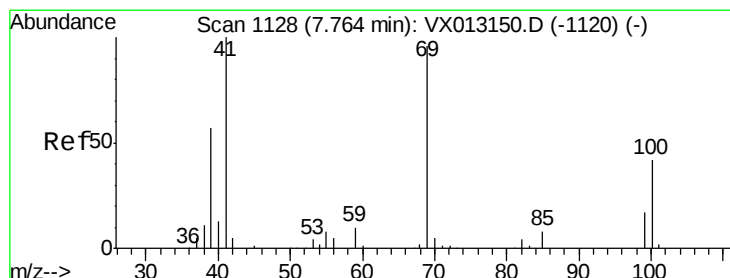
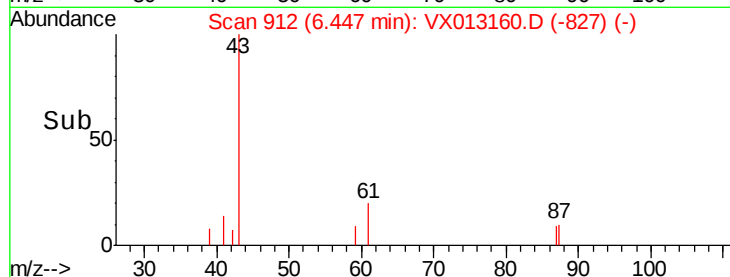
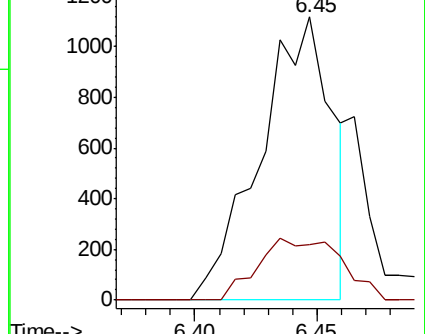
43 100

61 12.9 16.8 25.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#46

Methyl methacrylate

Concen: 0.777 ug/l

RT: 7.78 min Scan# 1130

Delta R.T. 0.01 min

Lab File: VX013160.D

Acq: 21 Oct 2019 18:27

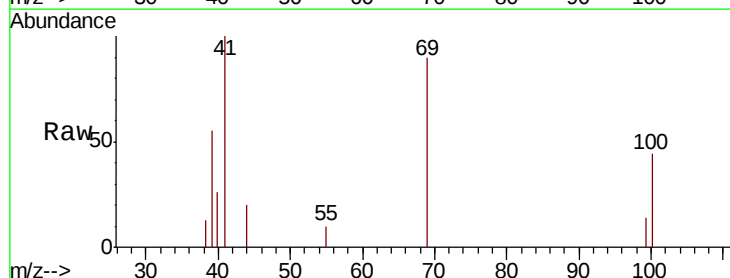
Tgt Ion: 41 Resp: 1450

Ion Ratio Lower Upper

41 100

69 89.8 47.8 143.3

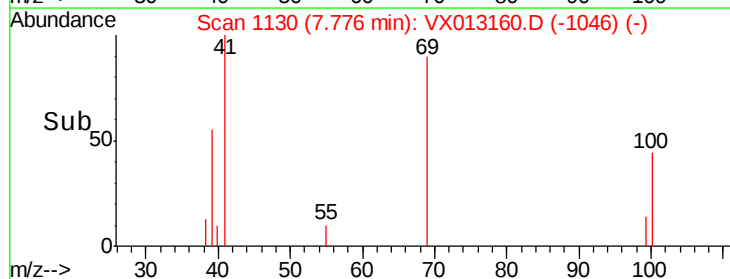
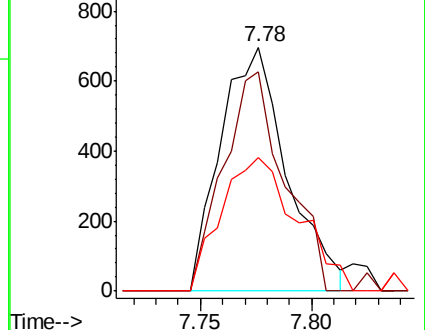
39 54.9 28.5 85.5

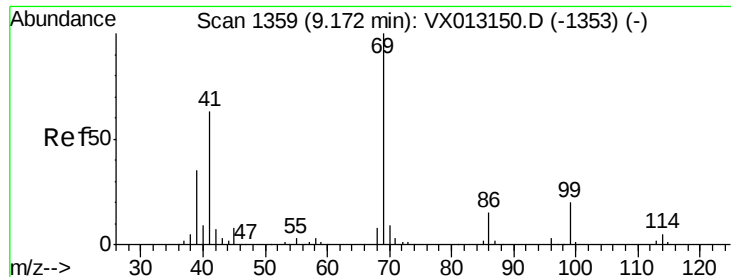


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#51

Ethyl methacrylate

Concen: 0.277 ug/l

RT: 8.72 min Scan# 1285

Delta R.T. -0.45 min

Lab File: VX013160.D

Acq: 21 Oct 2019 18:27

Instrument :

MSVOA_X

ClientSampleId :

SEWER-OUTLET-01(DSN-001)

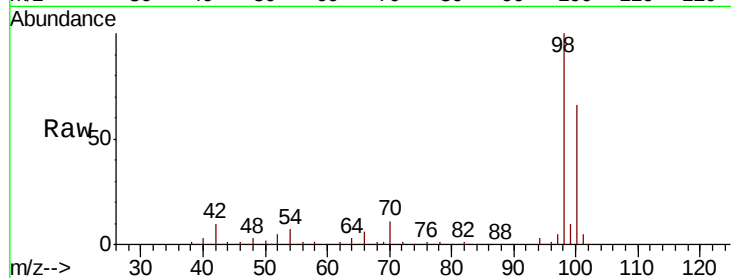
Tot Ion: 69 Resp: 764

Ion Ratio Lower Upper

69 100

41 63.0 31.6 95.0

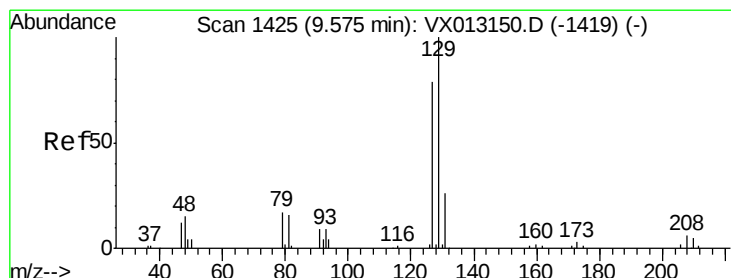
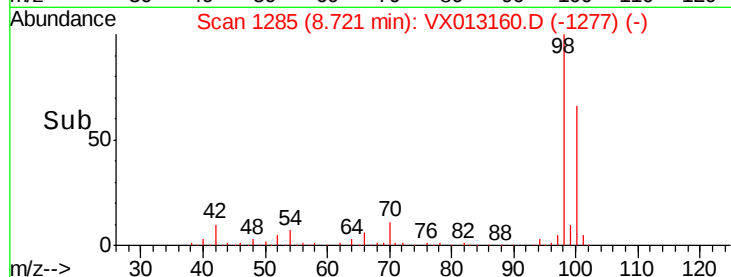
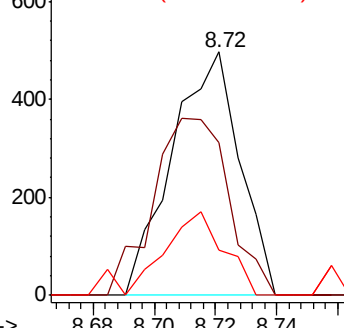
39 18.5 17.7 53.1



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: 0.882 ug/l

RT: 9.57 min Scan# 1425

Delta R.T. -0.00 min

Lab File: VX013160.D

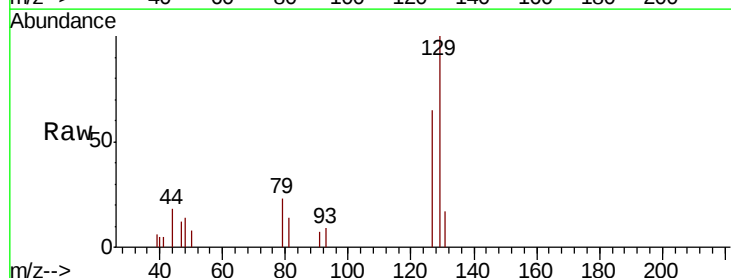
Acq: 21 Oct 2019 18:27

Tgt Ion: 129 Resp: 1672

Ion Ratio Lower Upper

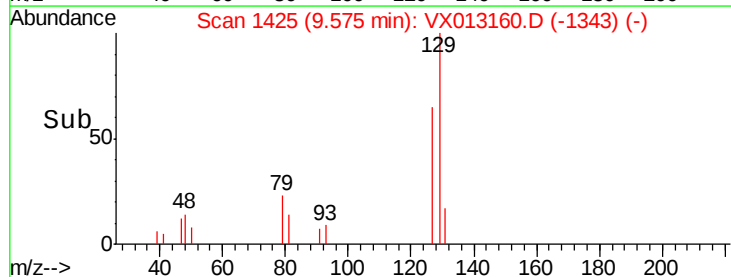
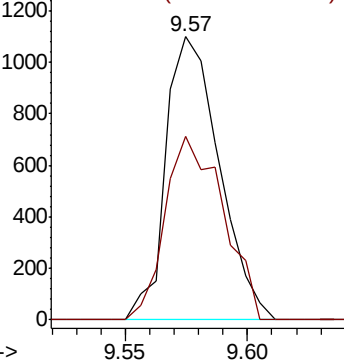
129 100

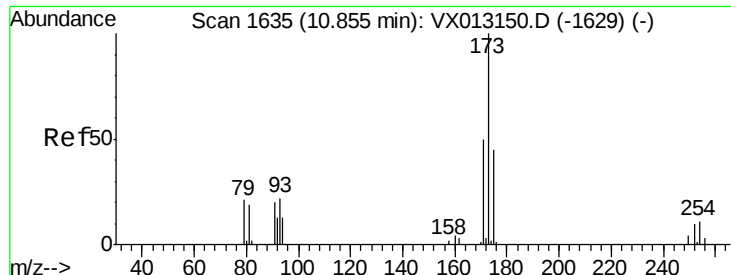
127 70.2 39.4 118.2



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

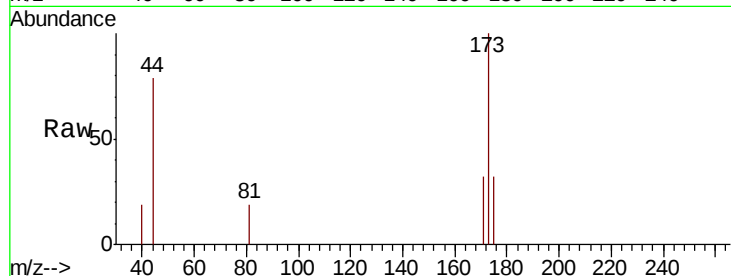




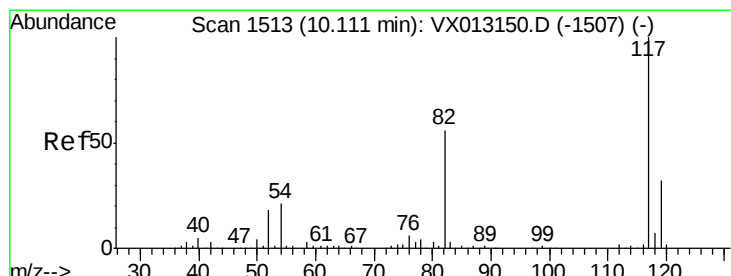
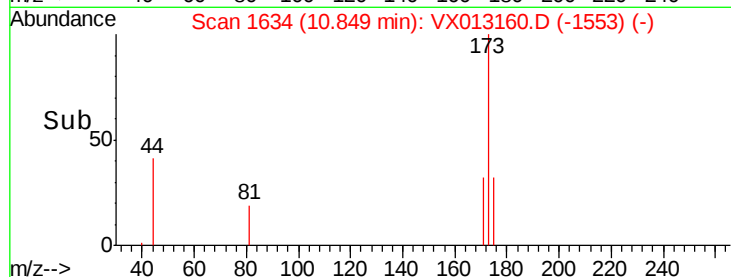
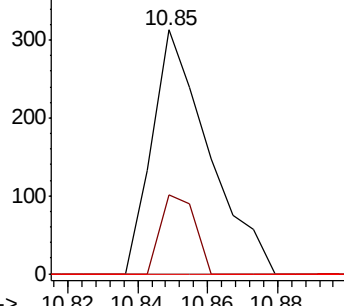
#56
Bromoform
Concen: 0.262 ug/l
RT: 10.85 min Scan# 1634
Delta R.T. -0.01 min
Lab File: VX013160.D
Acq: 21 Oct 2019 18:27

Instrument :
MSVOA_X
ClientSampleId :
SEWER-OUTLET-01(DSN-001)

Tot Ion:173 Resp: 353
Ion Ratio Lower Upper
173 100
175 19.8 39.0 58.4#
254 0.0 8.1 12.1#

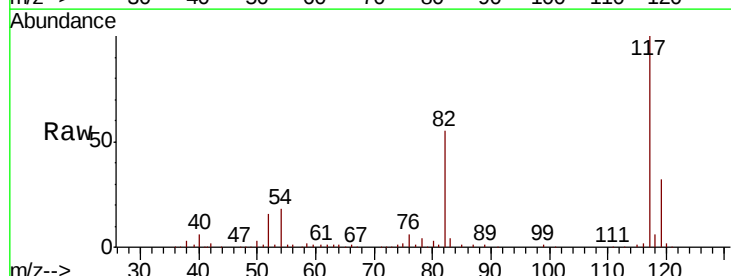


Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V

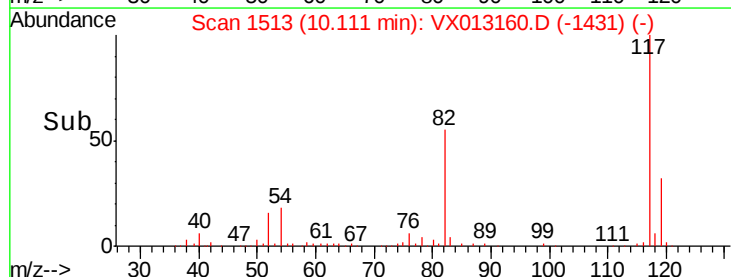
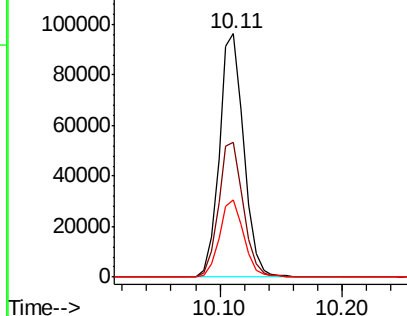


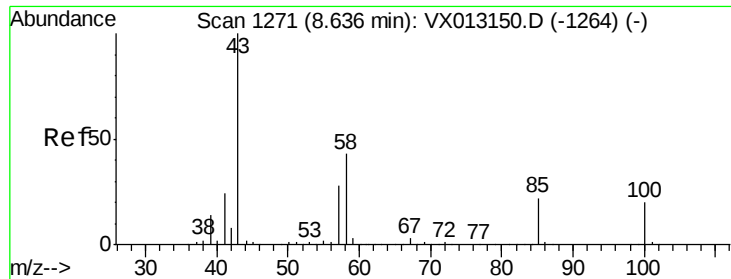
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013160.D
Acq: 21 Oct 2019 18:27

Tgt Ion:117 Resp: 133721
Ion Ratio Lower Upper
117 100
82 56.4 46.0 69.0
119 31.7 25.4 38.0



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

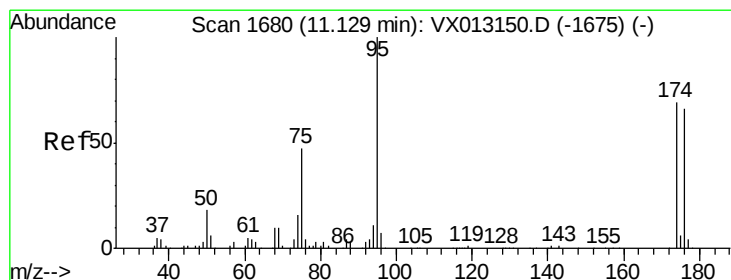
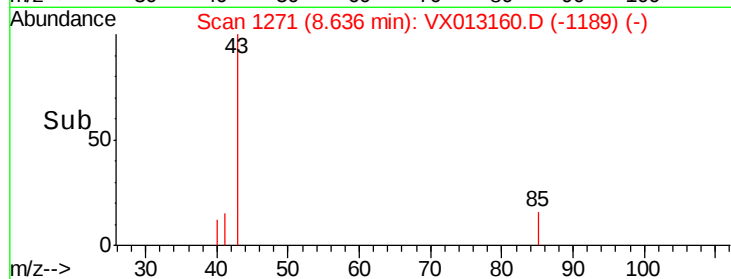
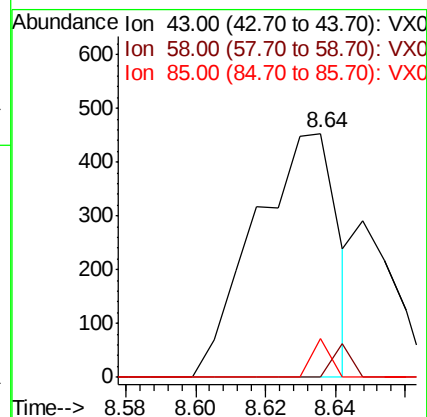
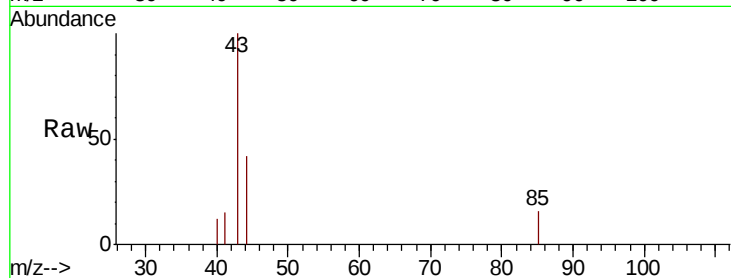




#58
4-Methyl-2-Pentanone
Concen: 0.331 ug/l
RT: 8.64 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VX013160.D
Acq: 21 Oct 2019 18:27

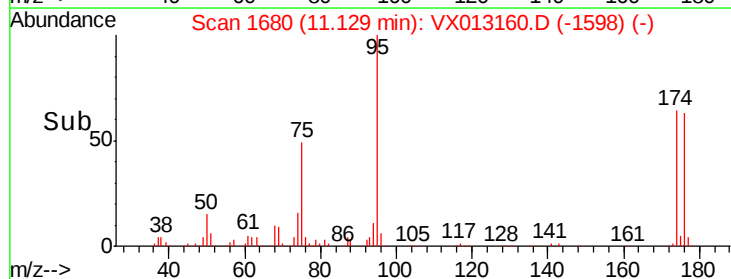
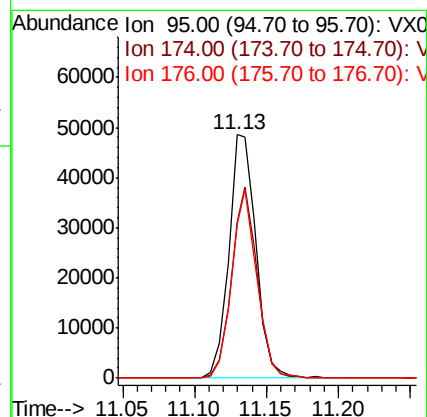
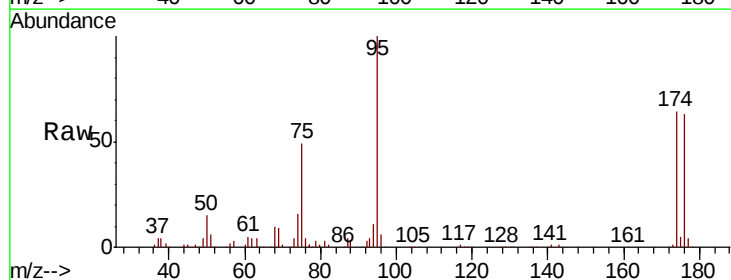
Instrument :
MSVOA_X
ClientSampleId :
SEWER-OUTLET-01(DSN-001)

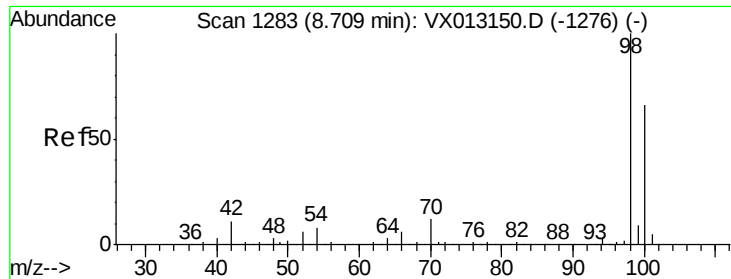
Tot Ion: 43 Resp: 746
Ion Ratio Lower Upper
43 100
58 0.0 33.8 50.8#
85 0.0 16.8 25.2#



#60
4-Bromofluorobenzene
Concen: 27.751 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VX013160.D
Acq: 21 Oct 2019 18:27

Tgt Ion: 95 Resp: 64617
Ion Ratio Lower Upper
95 100
174 73.8 60.0 90.0
176 71.7 58.5 87.7

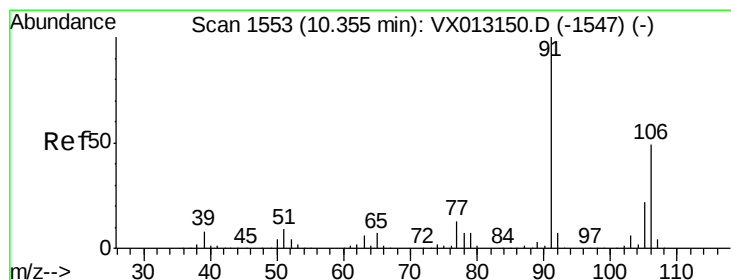
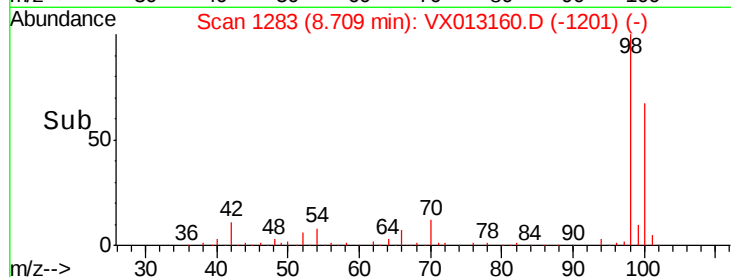
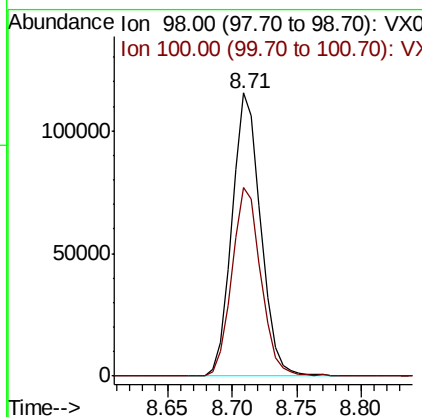
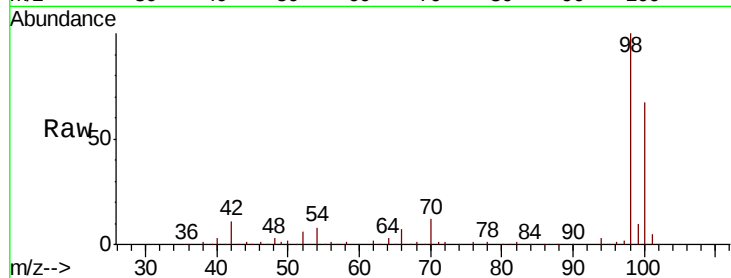




#63
Toluene-d8
Concen: 30.266 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX013160.D
Acq: 21 Oct 2019 18:27

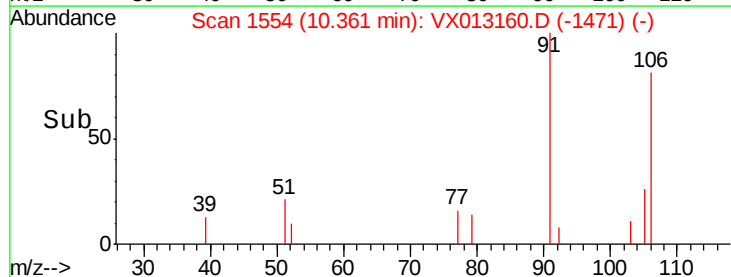
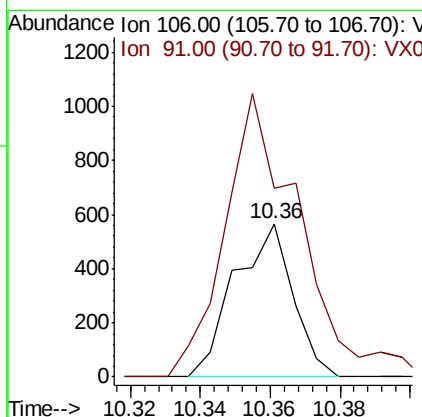
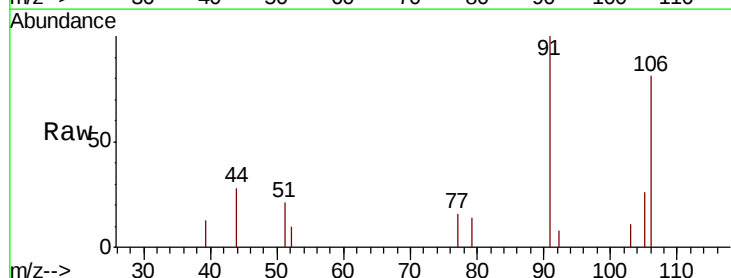
Instrument :
MSVOA_X
ClientSampleId :
SEWER-OUTLET-01(DSN-001)

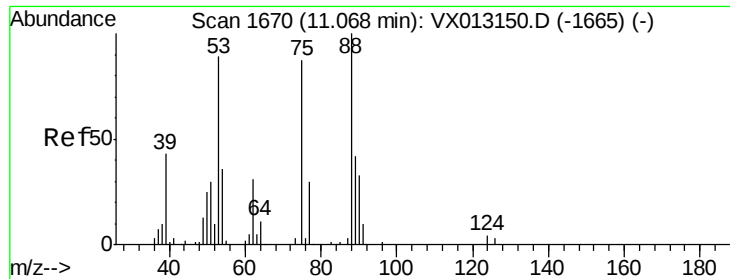
Tot Ion: 98 Resp: 180008
Ion Ratio Lower Upper
98 100
100 67.3 53.1 79.7



#67
m/p-Xylenes
Concen: 0.208 ug/l
RT: 10.36 min Scan# 1554
Delta R.T. 0.01 min
Lab File: VX013160.D
Acq: 21 Oct 2019 18:27

Tgt Ion:106 Resp: 656
Ion Ratio Lower Upper
106 100
91 227.6 163.7 245.5





#77

t-1,4-Dichloro-2-butene

Concen: 36.953 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013160.D

Acq: 21 Oct 2019 18:27

Instrument :

MSVOA_X

ClientSampleId :

SEWER-OUTLET-01(DSN-001)

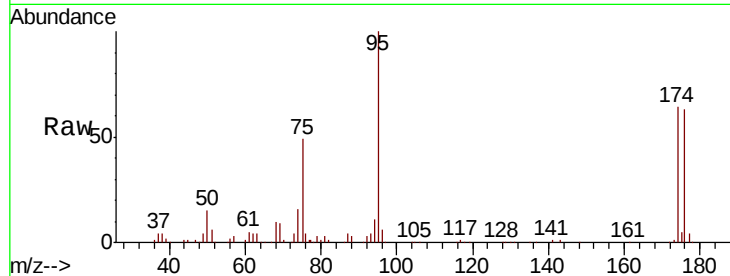
Tot Ion: 75 Resp: 31584

Ion Ratio Lower Upper

75 100

53 0.0 51.1 153.4#

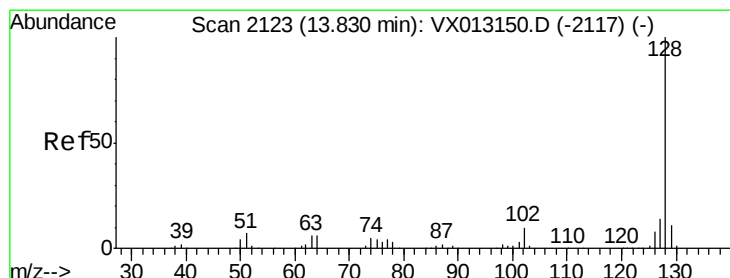
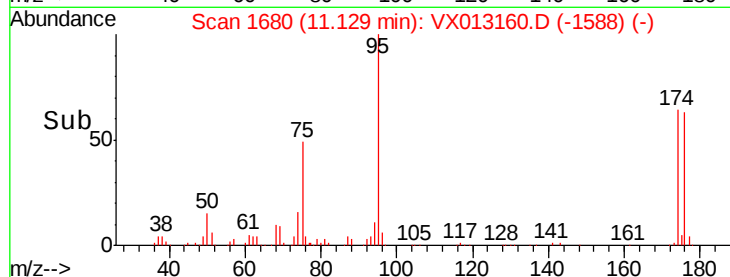
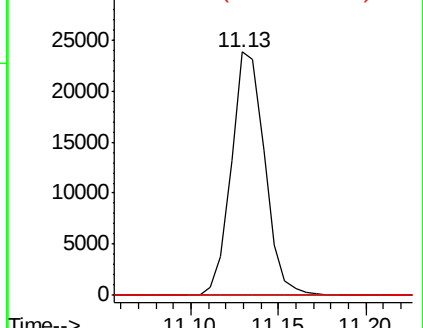
89 0.0 24.1 72.4#



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



#91

Naphthalene

Concen: 0.210 ug/l

RT: 13.84 min Scan# 2124

Delta R.T. 0.01 min

Lab File: VX013160.D

Acq: 21 Oct 2019 18:27

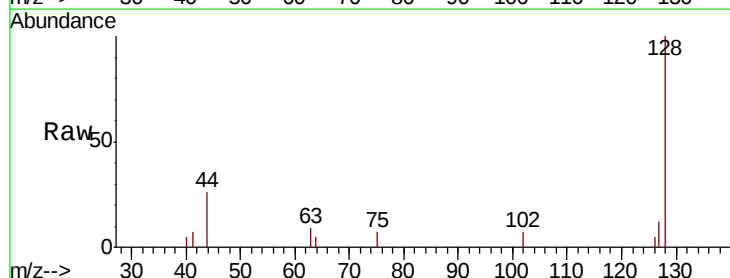
Tgt Ion:128 Resp: 1492

Ion Ratio Lower Upper

128 100

127 11.9 10.5 15.7

129 3.9 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

