

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080318\
 Data File : VN050312.D
 Acq On : 3 Aug 2018 14:49
 Operator : MD\SY
 Sample : J4341-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

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

Quant Time: Aug 03 23:48:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	118159	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	695900	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	572982	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	275391	34.29	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	114.30%
60) 4-Bromofluorobenzene	12.40	95	233021	26.47	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	88.23%
63) Toluene-d8	10.09	98	756807	27.65	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	92.17%

Target Compounds

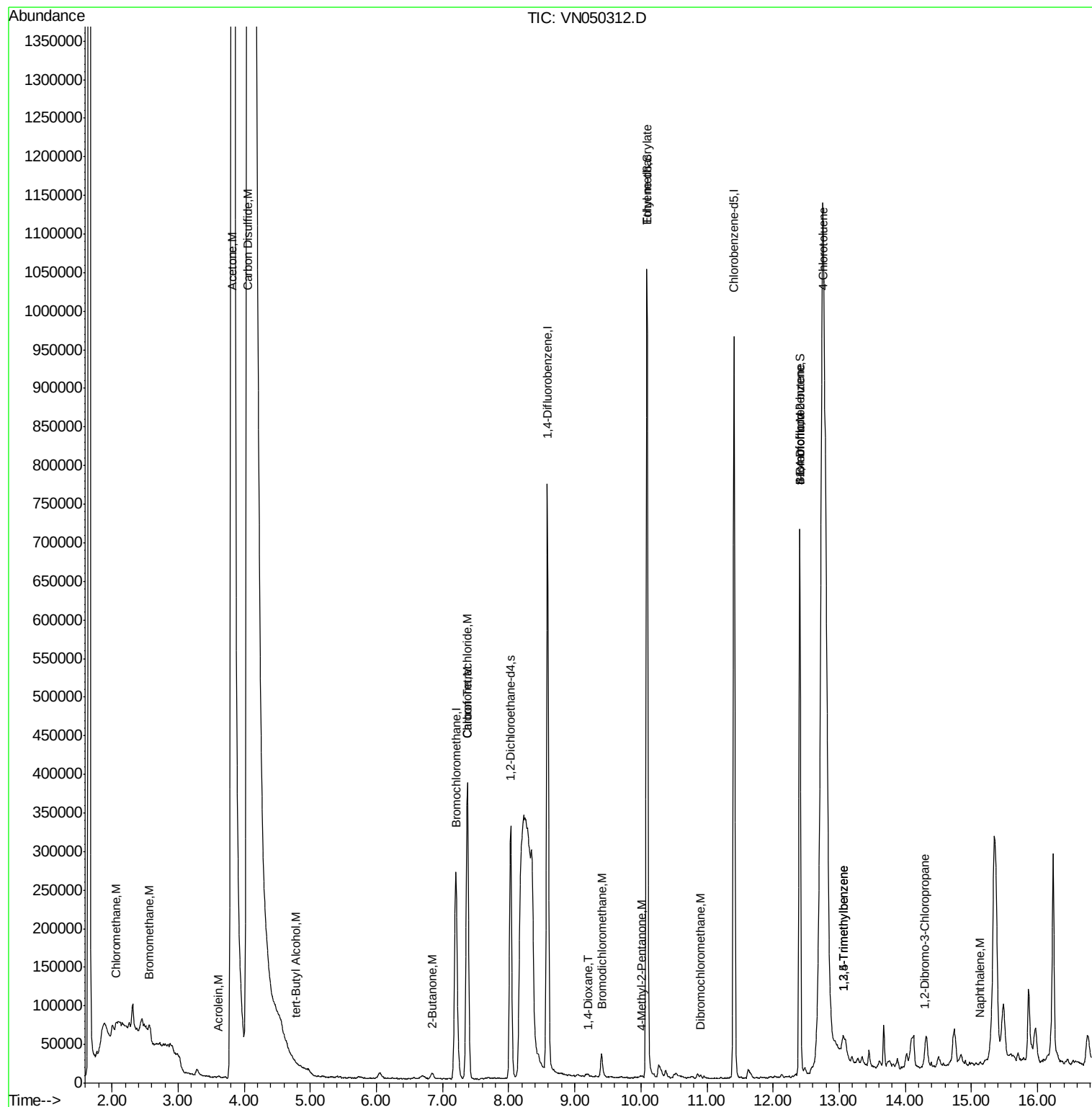
						Ovalue
3) Chloromethane	2.06	50	5711	0.68	ug/l	95
5) Bromomethane	2.56	94	4769	0.88	ug/l	83
13) Acrolein	3.61	56	2561	5.74	ug/l #	37
15) Acetone	3.82	58	4351579	6799.68	ug/l	95
16) Carbon Disulfide	4.05	76	59377	3.08	ug/l	96
23) tert-Butyl Alcohol	4.79	59	690	1.28	ug/l #	100
25) Chloroform	7.37	83	403339	31.06	ug/l	99
30) 2-Butanone	6.84	43	5551	1.64	ug/l #	71
33) Carbon Tetrachloride	7.37	117	5195	0.46	ug/l	97
41) Bromodichloromethane	9.40	83	20557	1.82	ug/l	96
45) 1,4-Dioxane	9.20	88	419	4.86	ug/l #	1
51) Ethyl methacrylate	10.10	69	2797	0.30	ug/l	91
53) Dibromochloromethane	10.90	129	1741	0.20	ug/l	81
56) Bromoform	12.40	173	2686	0.44	ug/l #	1
58) 4-Methyl-2-Pentanone	10.02	43	4096	0.61	ug/l #	53
76) 1,3,5-Trimethylbenzene	13.06	105	5576	0.21	ug/l	56
77) t-1,4-Dichloro-2-butene	12.40	75	112238	44.94	ug/l #	14
78) 4-Chlorotoluene	12.75	91	132905	5.89	ug/l	41
80) 1,2,4-Trimethylbenzene	13.06	105	5576	0.21	ug/l	60
88) 1,2-Dibromo-3-Chloropropan	14.28	75	289	0.21	ug/l #	1
91) Naphthalene	15.13	128	2234	7.74	ug/l #	94

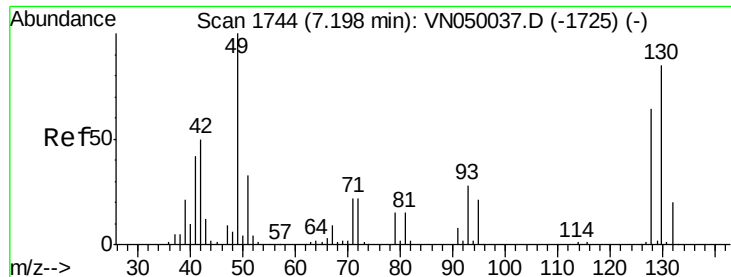
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1745

Delta R.T. 0.00 min

Lab File: VN050312.D

Acq: 3 Aug 2018 14:49

Instrument :

MSVOA_N

ClientSampleId :

DSN002-SEWER-OUTLET-002

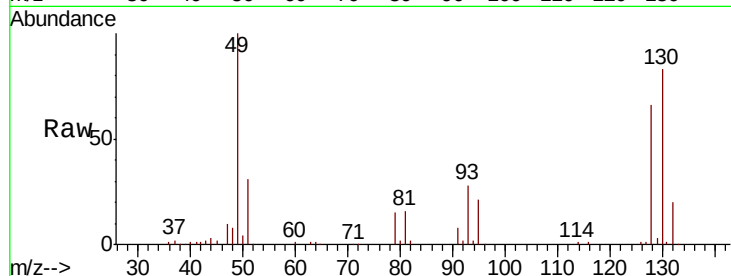
Tot Ion:128 Resp: 118159

Ion Ratio Lower Upper

128 100

49 155.0 0.0 378.3

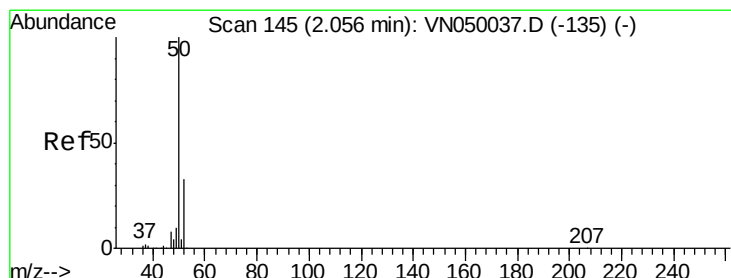
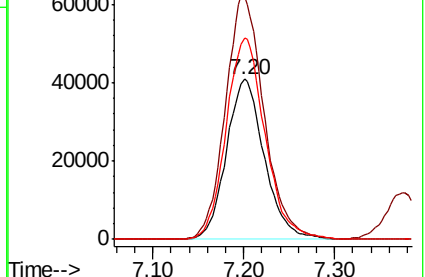
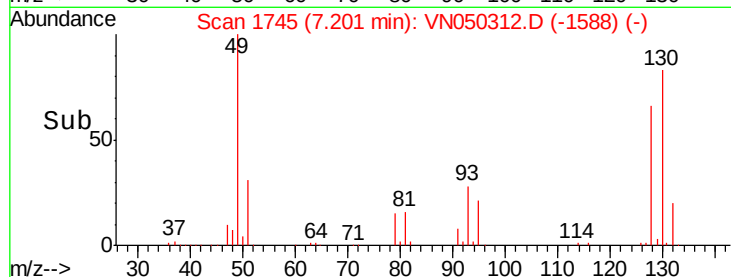
130 129.4 0.0 320.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.68 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050312.D

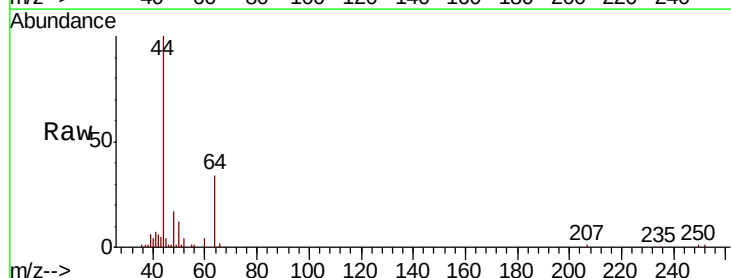
Acq: 3 Aug 2018 14:49

Tgt Ion: 50 Resp: 5711

Ion Ratio Lower Upper

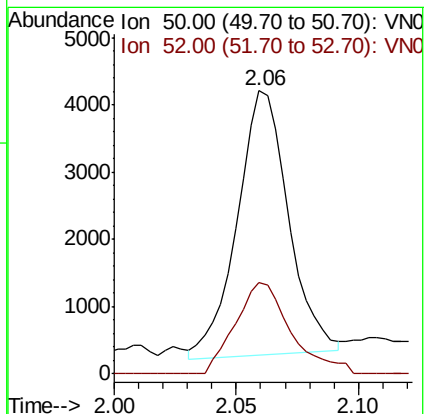
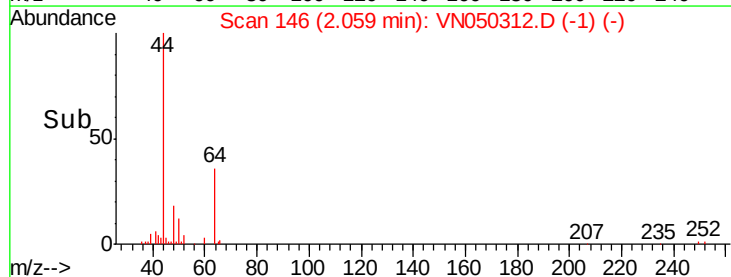
50 100

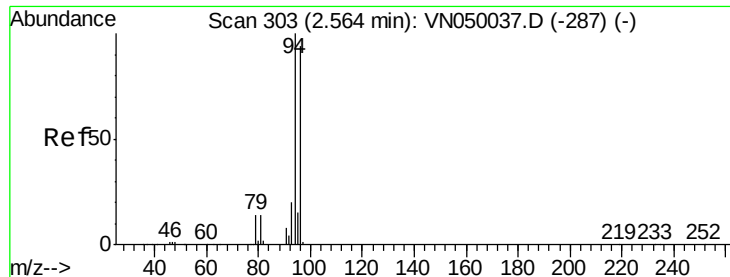
52 35.5 26.1 39.1



Abundance Ion 50.00 (49.70 to 50.70): VN

Ion 52.00 (51.70 to 52.70): VN





#5

Bromomethane

Concen: 0.88 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN050312.D

Acq: 3 Aug 2018 14:49

Instrument :

MSVOA_N

ClientSampleId :

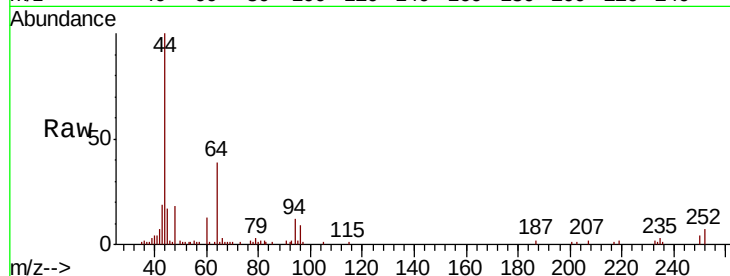
DSN002-SEWER-OUTLET-002

Tot Ion: 94 Resp: 4769

Ion Ratio Lower Upper

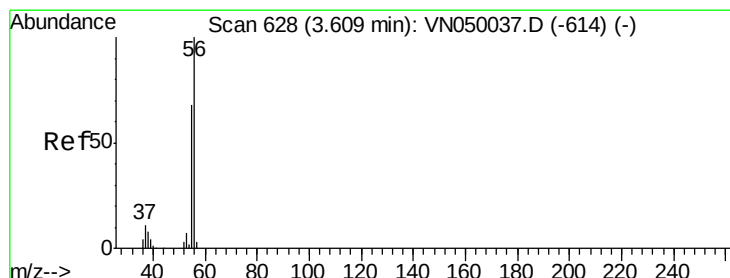
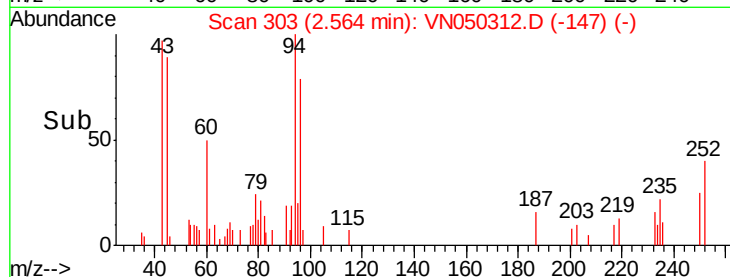
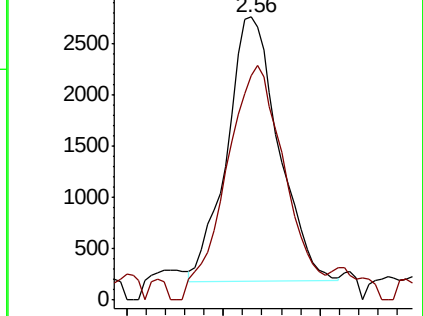
94 100

96 77.9 75.9 113.9



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#13

Acrolein

Concen: 5.74 ug/l

RT: 3.61 min Scan# 627

Delta R.T. -0.00 min

Lab File: VN050312.D

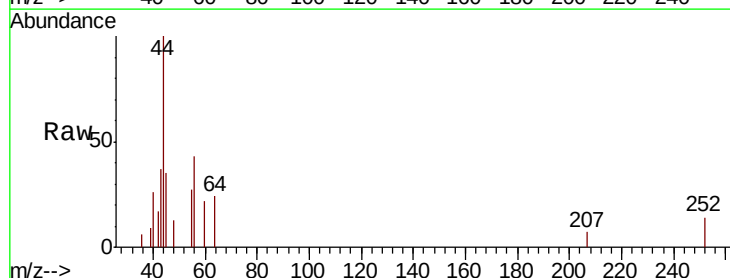
Acq: 3 Aug 2018 14:49

Tgt Ion: 56 Resp: 2561

Ion Ratio Lower Upper

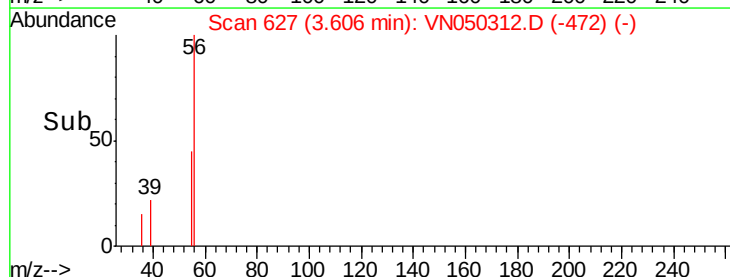
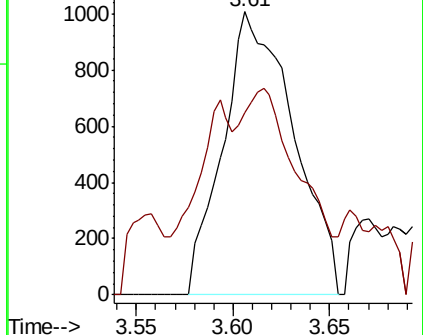
56 100

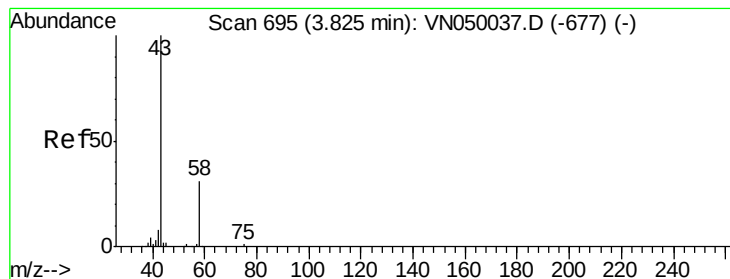
55 20.0 58.6 88.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#15

Acetone

Concen: 6799.68 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050312.D

Acq: 3 Aug 2018 14:49

Instrument :

MSVOA_N

ClientSampleId :

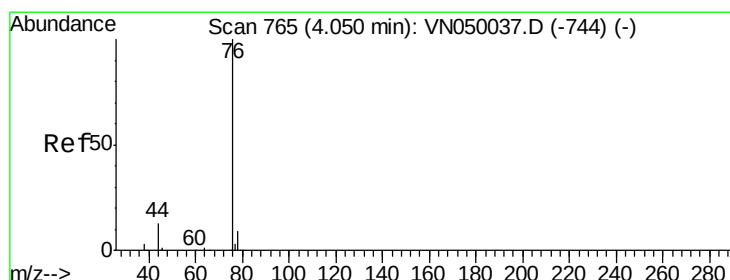
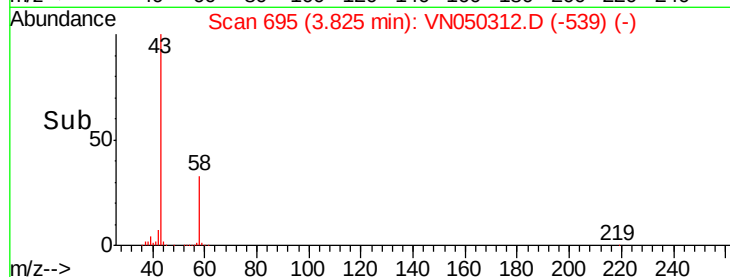
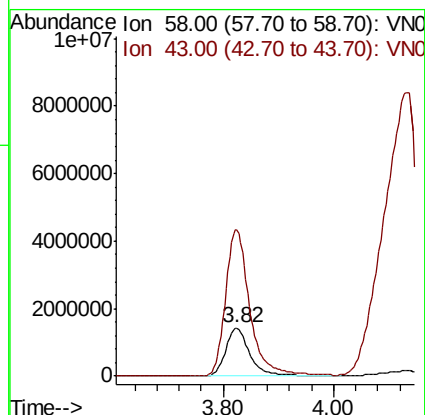
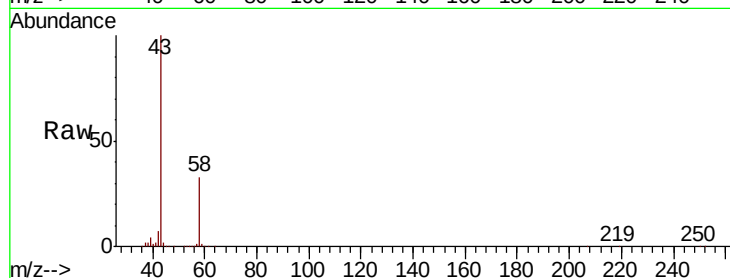
DSN002-SEWER-OUTLET-002

Tot Ion: 58 Resp: 4351579

Ion Ratio Lower Upper

58 100

43 304.6 252.0 378.0



#16

Carbon Disulfide

Concen: 3.08 ug/l

RT: 4.05 min Scan# 764

Delta R.T. -0.00 min

Lab File: VN050312.D

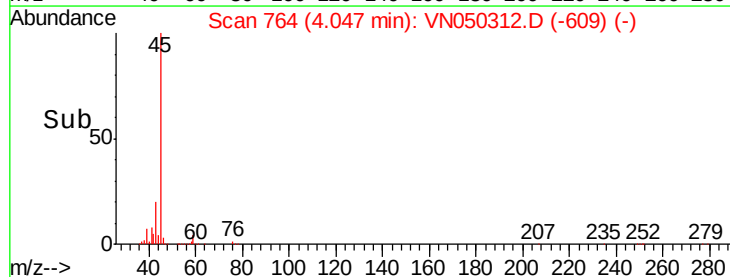
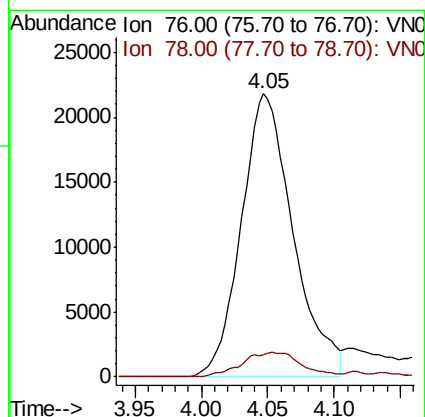
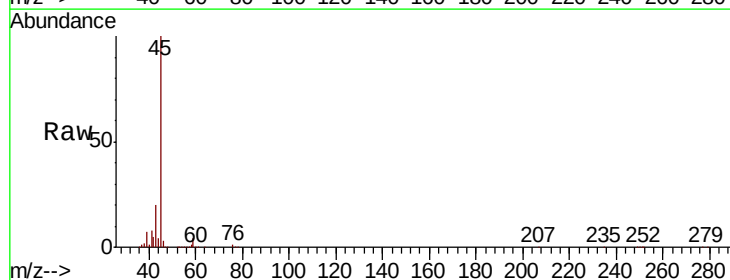
Acq: 3 Aug 2018 14:49

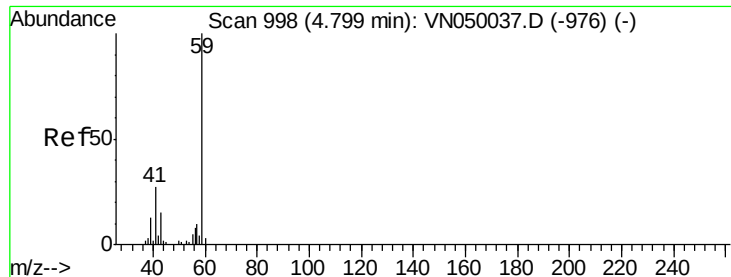
Tgt Ion: 76 Resp: 59377

Ion Ratio Lower Upper

76 100

78 7.8 7.3 10.9





#23

tert-Butyl Alcohol

Concen: 1.28 ug/l

RT: 4.79 min Scan# 994

Delta R.T. -0.01 min

Lab File: VN050312.D

Acq: 3 Aug 2018 14:49

Instrument :

MSVOA_N

ClientSampleId :

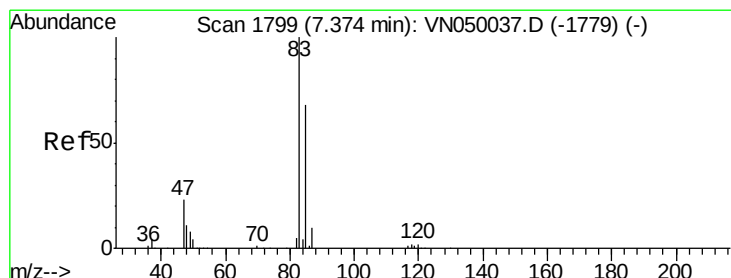
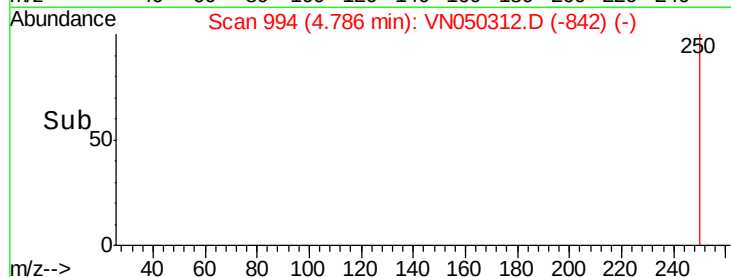
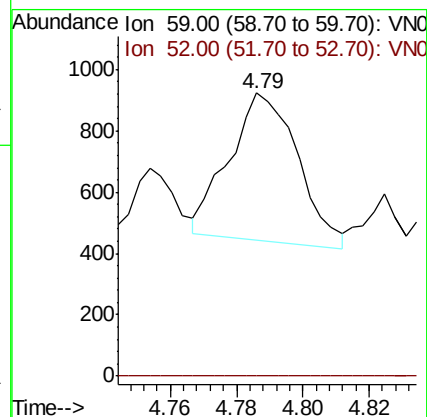
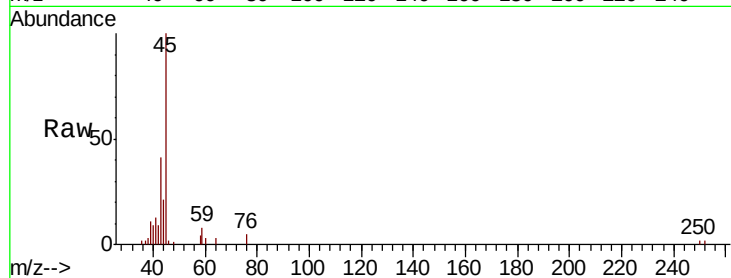
DSN002-SEWER-OUTLET-002

Tot Ion: 59 Resp: 690

Ion Ratio Lower Upper

59 100

52 0.0 0.1 0.1#



#25

Chloroform

Concen: 31.06 ug/l

RT: 7.37 min Scan# 1799

Delta R.T. 0.00 min

Lab File: VN050312.D

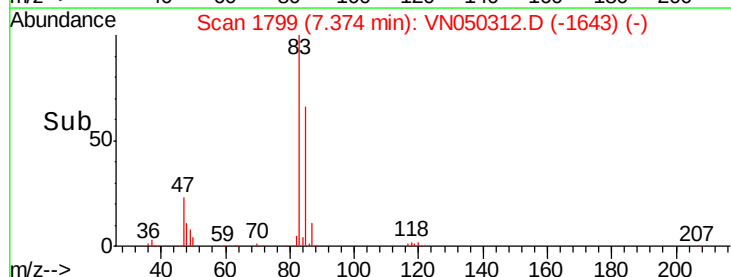
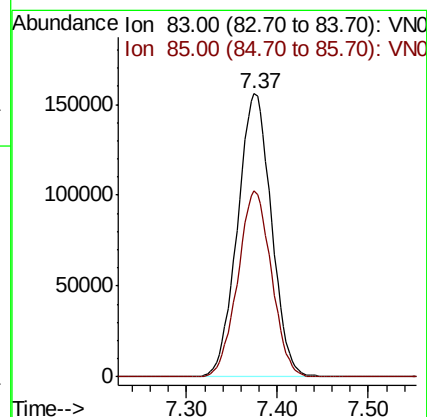
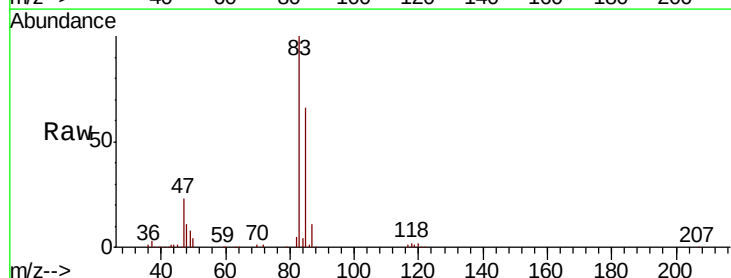
Acq: 3 Aug 2018 14:49

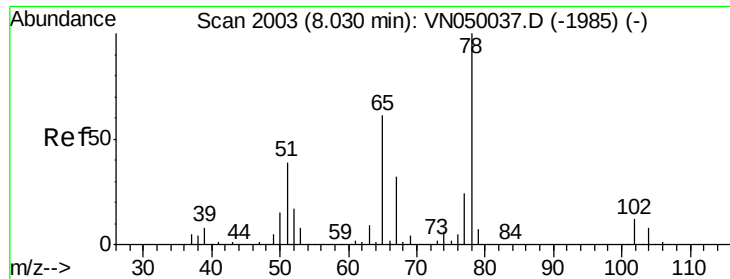
Tgt Ion: 83 Resp: 403339

Ion Ratio Lower Upper

83 100

85 65.6 52.1 78.1

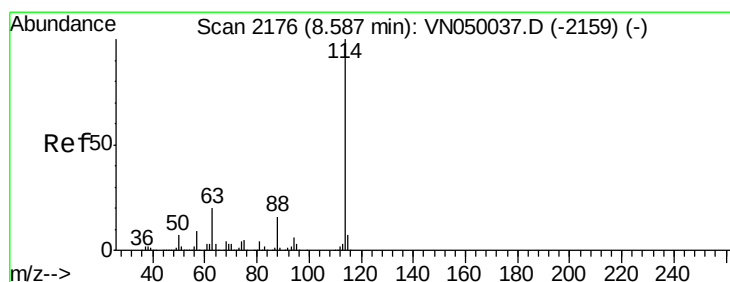
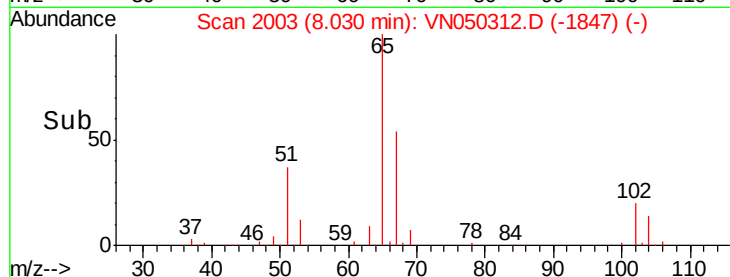
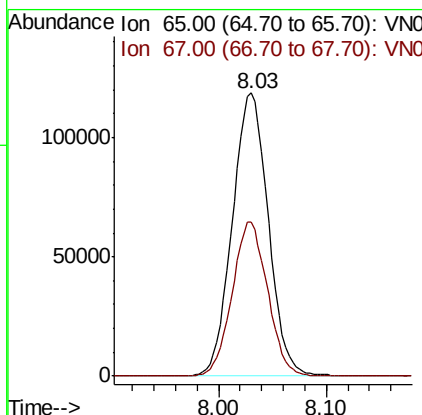
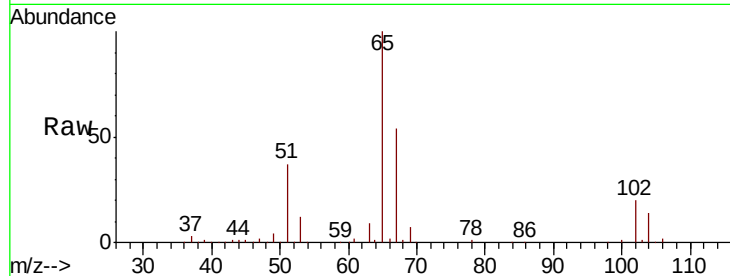




#27
 1,2-Dichloroethane-d4
 Concen: 34.29 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050312.D
 Acq: 3 Aug 2018 14:49

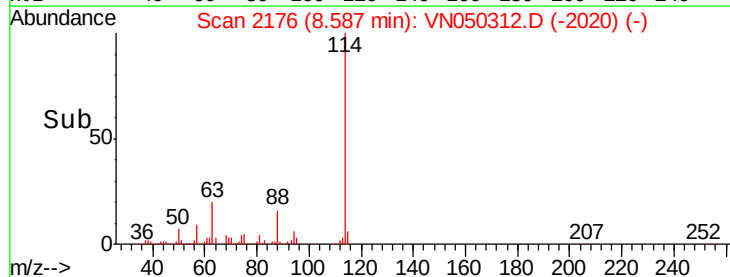
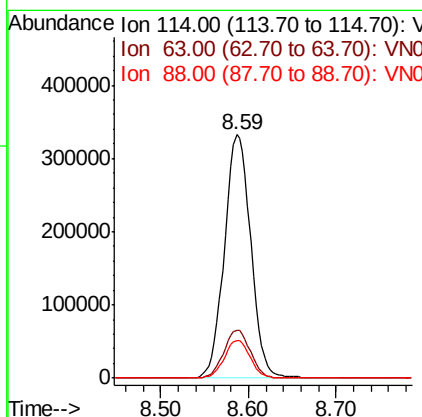
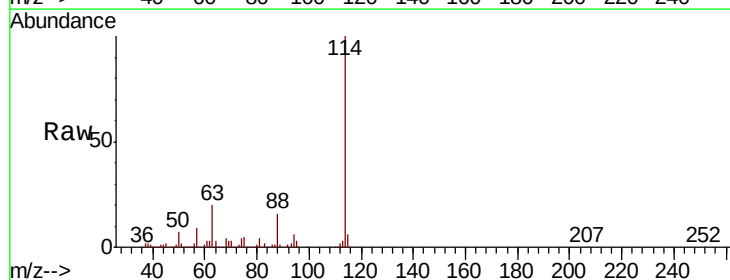
Instrument :
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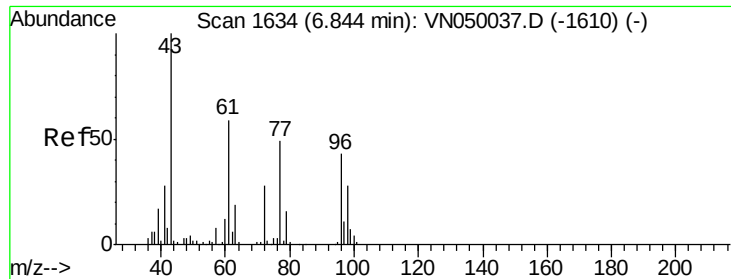
Tot Ion: 65 Resp: 275391
 Ion Ratio Lower Upper
 65 100
 67 53.6 42.7 64.1



#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050312.D
 Acq: 3 Aug 2018 14:49

Tgt Ion: 114 Resp: 695900
 Ion Ratio Lower Upper
 114 100
 63 19.9 16.2 24.2
 88 15.2 12.3 18.5

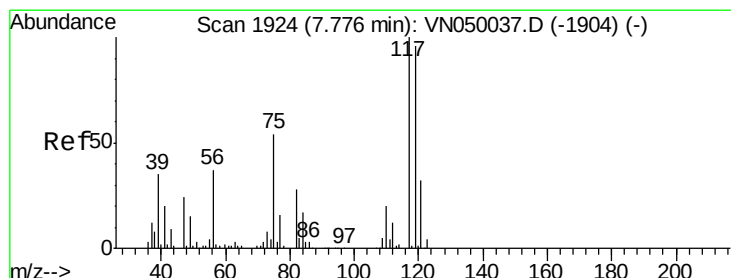
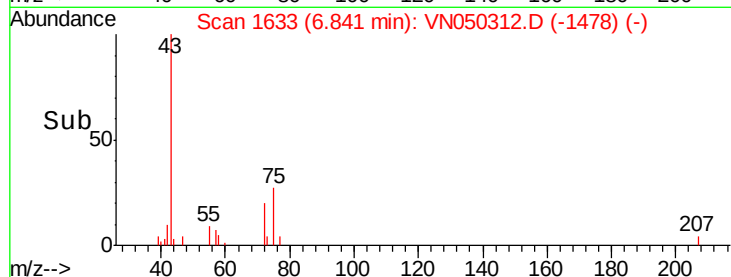
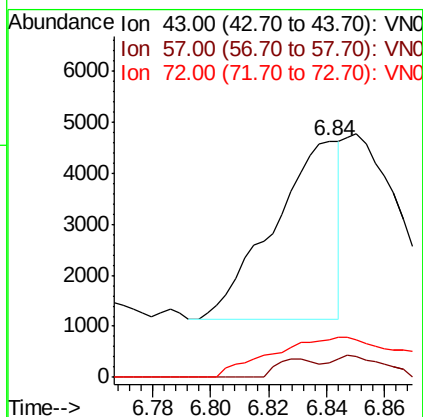
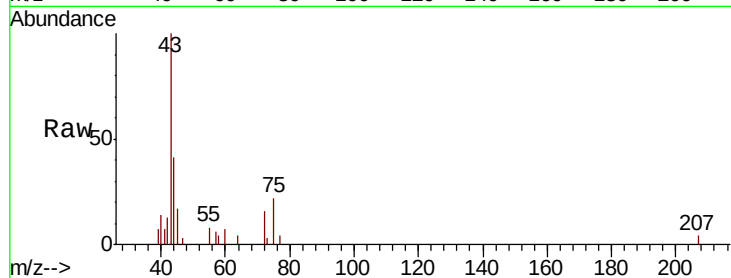




#30
2-Butanone
Concen: 1.64 ug/l
RT: 6.84 min Scan# 1633
Delta R.T. -0.00 min
Lab File: VN050312.D
Acq: 3 Aug 2018 14:49

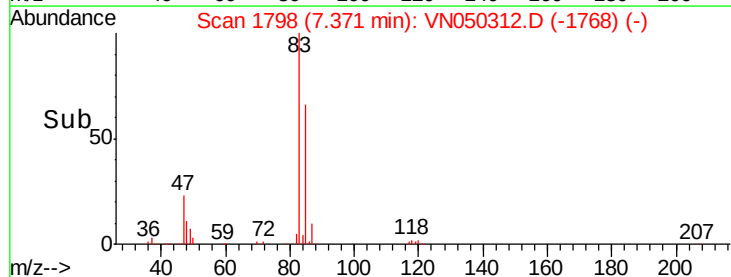
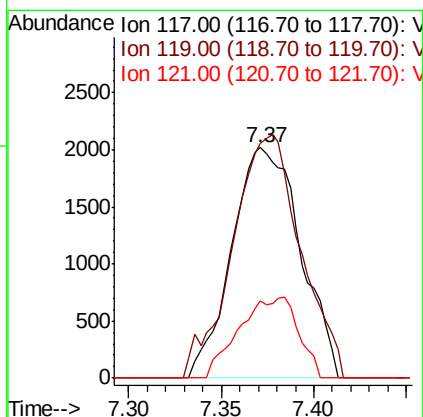
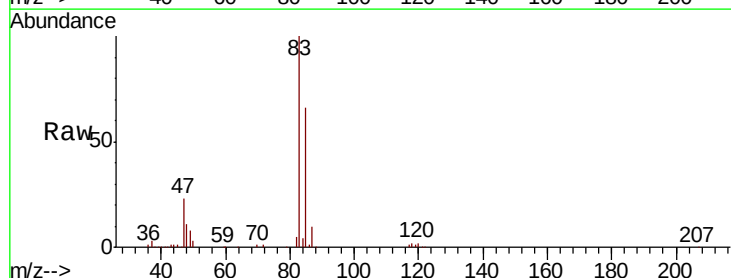
Instrument :
MSVOA_N
ClientSampleId :
DSN002-SEWER-OUTLET-002

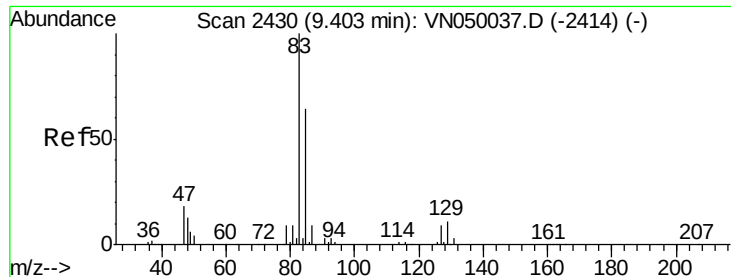
Tot Ion: 43 Resp: 5551
Ion Ratio Lower Upper
43 100
57 9.6 6.8 10.2
72 45.8 21.4 32.0#



#33
Carbon Tetrachloride
Concen: 0.46 ug/l
RT: 7.37 min Scan# 1798
Delta R.T. -0.41 min
Lab File: VN050312.D
Acq: 3 Aug 2018 14:49

Tgt Ion: 117 Resp: 5195
Ion Ratio Lower Upper
117 100
119 93.7 76.9 115.3
121 33.7 24.4 36.6





#41

Bromodichloromethane

Concen: 1.82 ug/l

RT: 9.40 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VN050312.D

Acq: 3 Aug 2018 14:49

Instrument :

MSVOA_N

ClientSampleId :

DSN002-SEWER-OUTLET-002

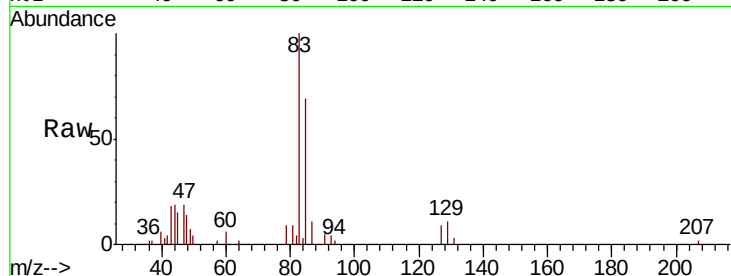
Tot Ion: 83 Resp: 20557

Ion Ratio Lower Upper

83 100

85 69.0 52.6 78.8

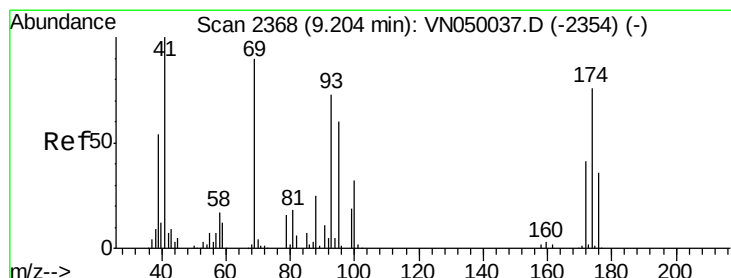
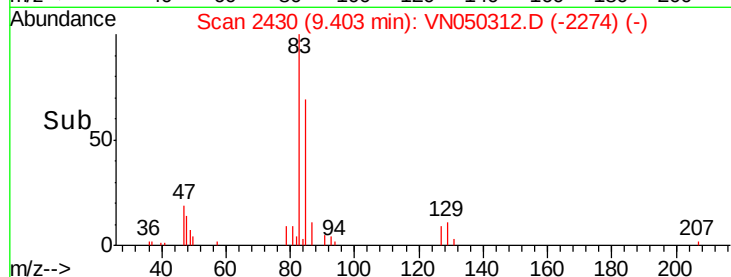
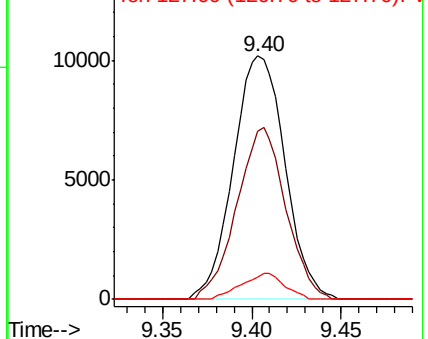
127 9.2 7.0 10.4



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0

Ion 127.00 (126.70 to 127.70): V



#45

1,4-Dioxane

Concen: 4.86 ug/l

RT: 9.20 min Scan# 2367

Delta R.T. -0.00 min

Lab File: VN050312.D

Acq: 3 Aug 2018 14:49

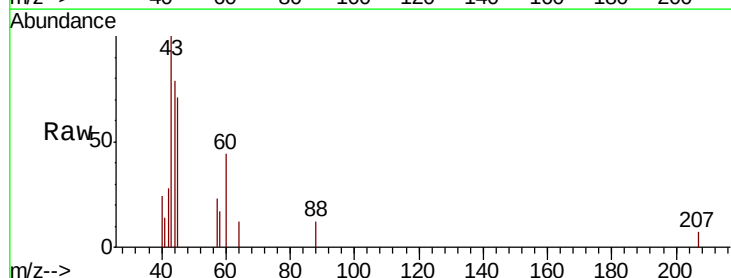
Tgt Ion: 88 Resp: 419

Ion Ratio Lower Upper

88 100

43 298.3 26.9 40.3#

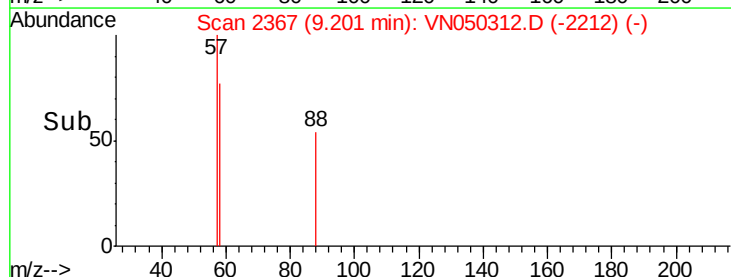
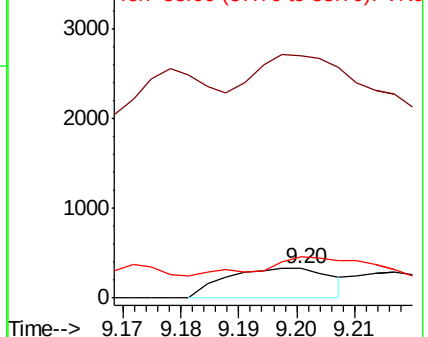
58 113.6 53.6 80.4#

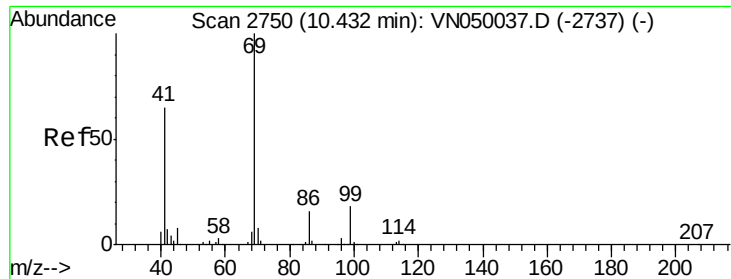


Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#51

Ethyl methacrylate

Concen: 0.30 ug/l

RT: 10.10 min Scan# 2647

Delta R.T. -0.33 min

Lab File: VN050312.D

Acq: 3 Aug 2018 14:49

Instrument :

MSVOA_N

ClientSampleId :

DSN002-SEWER-OUTLET-002

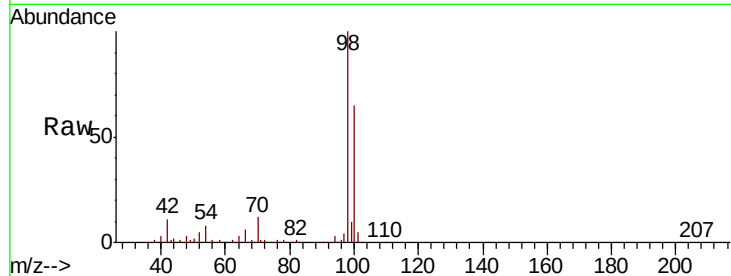
Tot Ion: 69 Resp: 2797

Ion Ratio Lower Upper

69 100

41 59.3 31.9 95.9

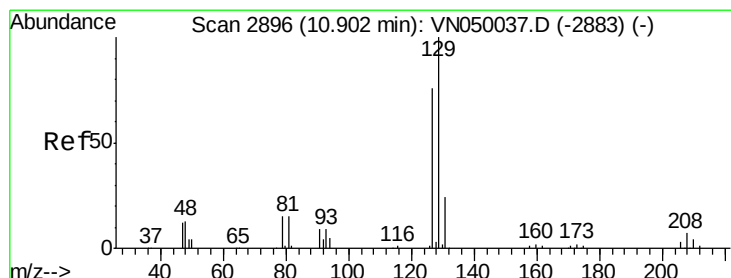
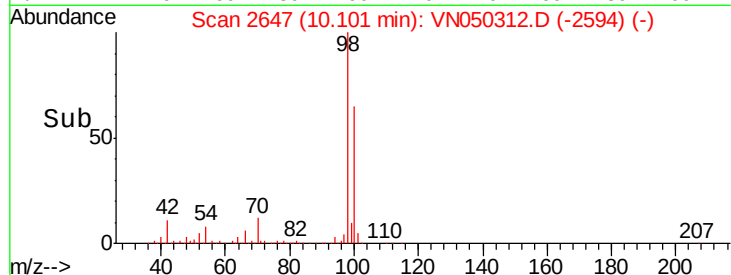
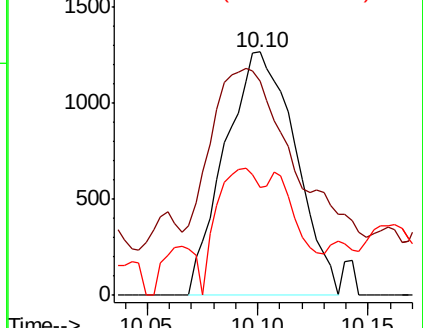
39 25.3 16.7 50.1



Abundance Ion 69.00 (68.70 to 69.70): VN050037.D (-2737) (-)

Ion 41.00 (40.70 to 41.70): VN050037.D (-2737) (-)

Ion 39.00 (38.70 to 39.70): VN050037.D (-2737) (-)



#53

Dibromochloromethane

Concen: 0.20 ug/l

RT: 10.90 min Scan# 2897

Delta R.T. 0.00 min

Lab File: VN050312.D

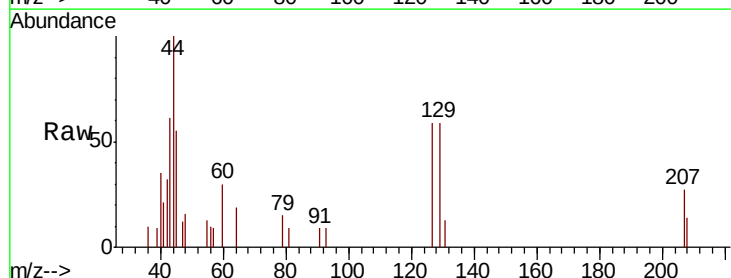
Acq: 3 Aug 2018 14:49

Tgt Ion: 129 Resp: 1741

Ion Ratio Lower Upper

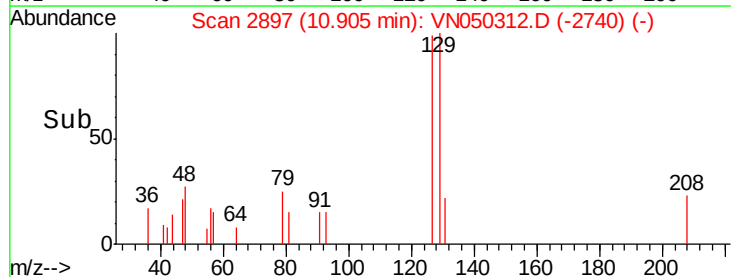
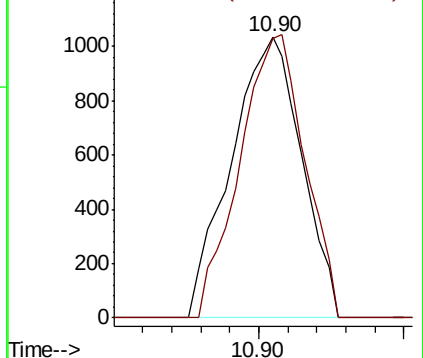
129 100

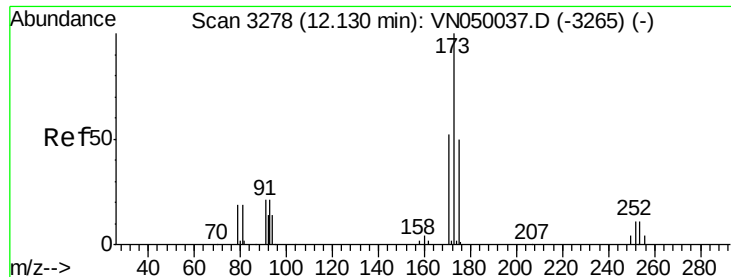
127 92.9 38.1 114.5



Abundance Ion 129.00 (128.70 to 129.70): VN050037.D (-2883) (-)

Ion 127.00 (126.70 to 127.70): VN050037.D (-2883) (-)

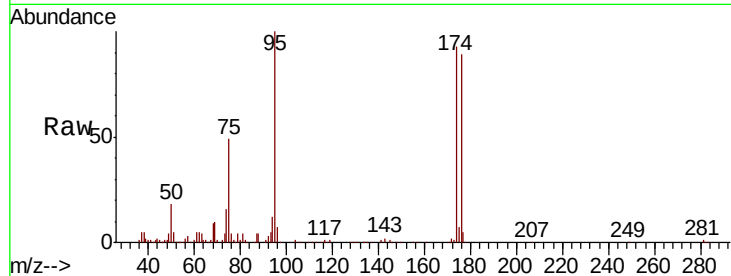




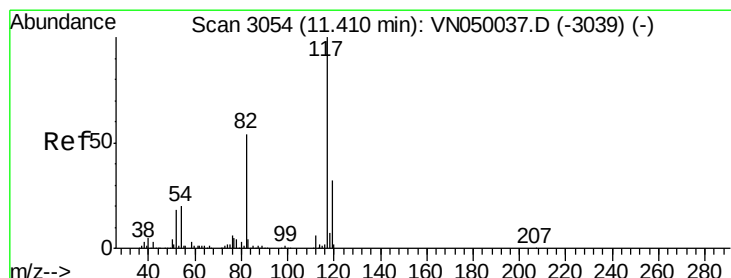
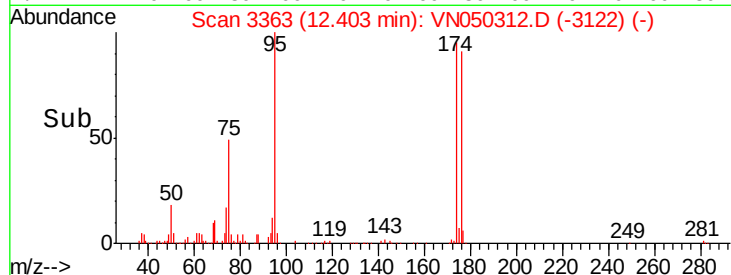
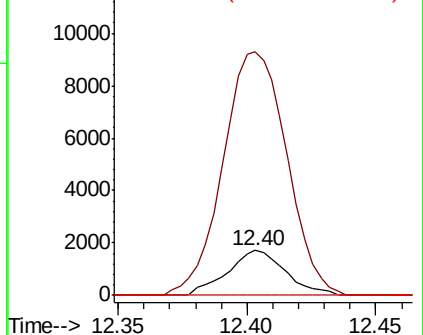
#56
Bromoform
Concen: 0.44 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.27 min
Lab File: VN050312.D
Acq: 3 Aug 2018 14:49

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

Tot Ion:173 Resp: 2686
Ion Ratio Lower Upper
173 100
175 596.1 38.6 57.8#
254 0.0 8.8 13.2#

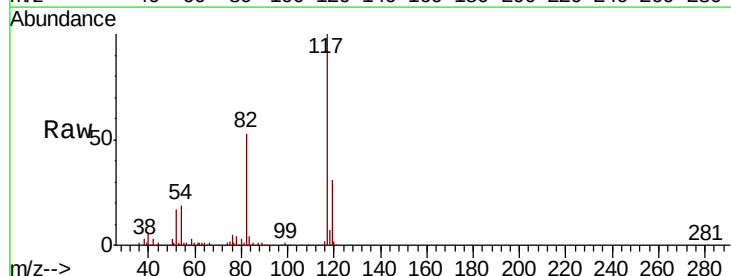


Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V

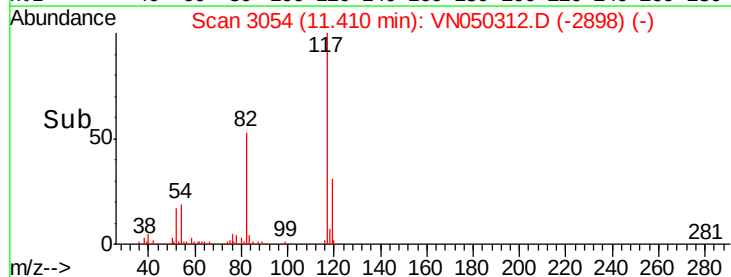
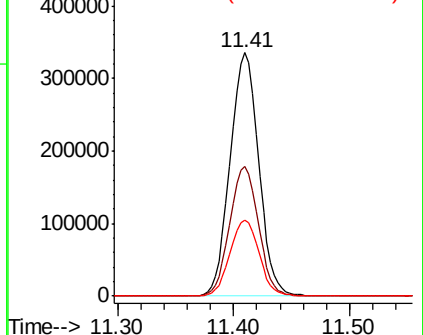


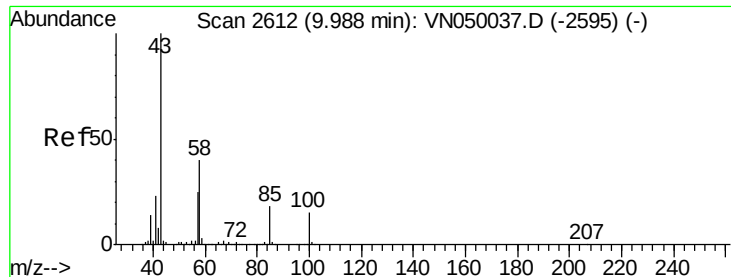
#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050312.D
Acq: 3 Aug 2018 14:49

Tgt Ion:117 Resp: 572982
Ion Ratio Lower Upper
117 100
82 53.5 42.4 63.6
119 32.0 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

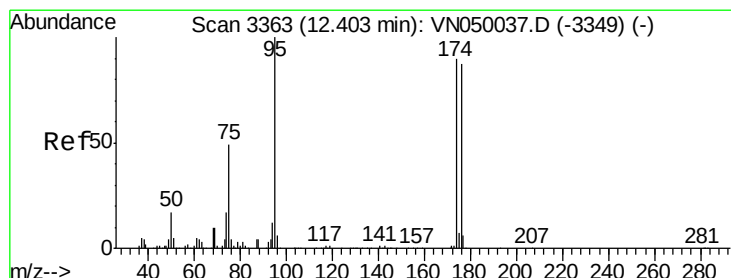
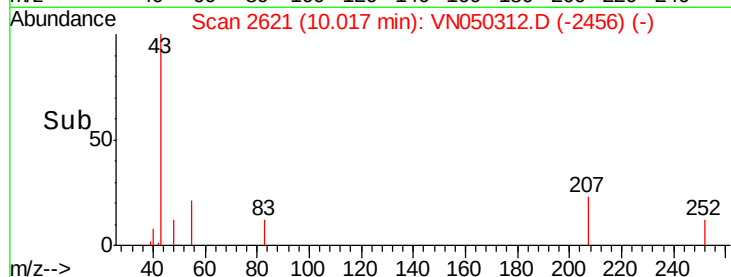
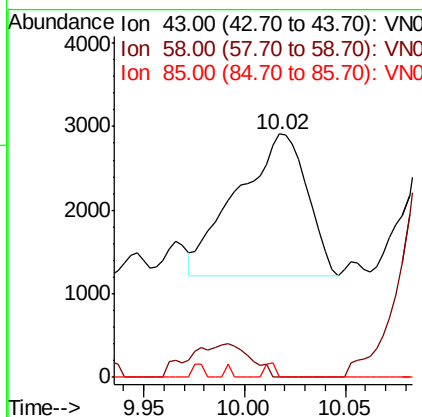
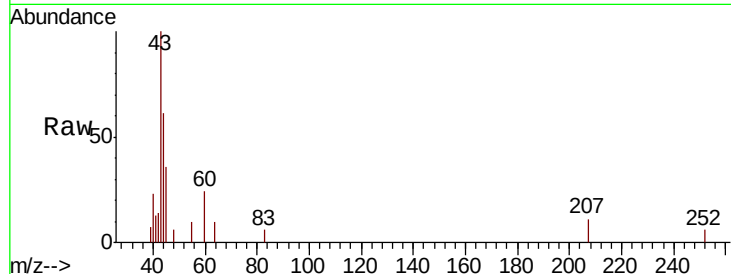




#58
 4-Methyl-2-Pentanone
 Concen: 0.61 ug/l
 RT: 10.02 min Scan# 2621
 Delta R.T. 0.03 min
 Lab File: VN050312.D
 Acq: 3 Aug 2018 14:49

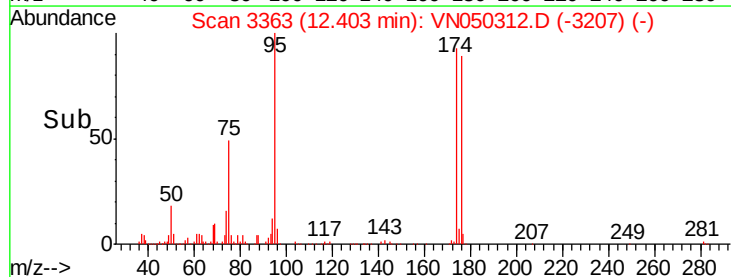
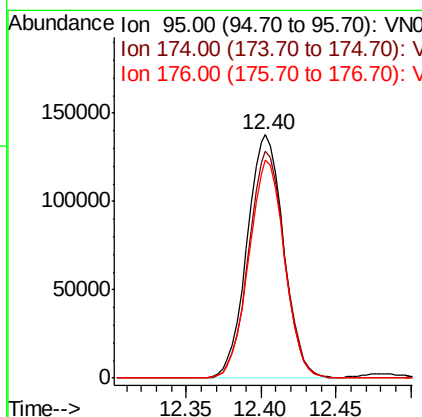
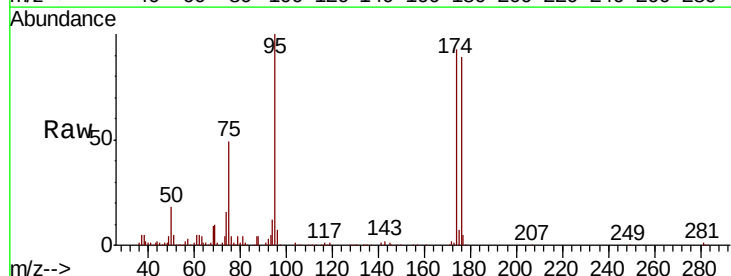
Instrument :
 MSVOA_N
 ClientSampleId :
 DSN002-SEWER-OUTLET-002

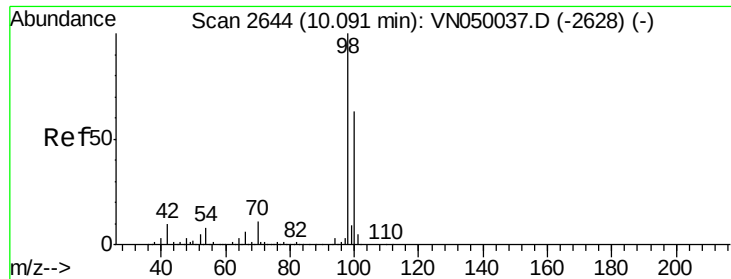
Tot Ion: 43 Resp: 4096
 Ion Ratio Lower Upper
 43 100
 58 7.3 31.2 46.8#
 85 1.6 14.4 21.6#



#60
 4-Bromofluorobenzene
 Concen: 26.47 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.00 min
 Lab File: VN050312.D
 Acq: 3 Aug 2018 14:49

Tgt Ion: 95 Resp: 233021
 Ion Ratio Lower Upper
 95 100
 174 91.9 72.3 108.5
 176 87.8 70.0 105.0





#63

Toluene-d8

Concen: 27.65 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN050312.D

Acq: 3 Aug 2018 14:49

Instrument :

MSVOA_N

ClientSampleId :

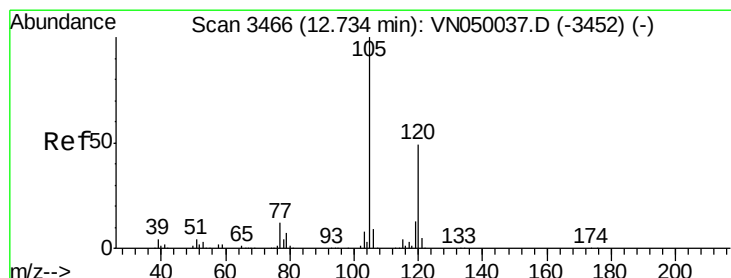
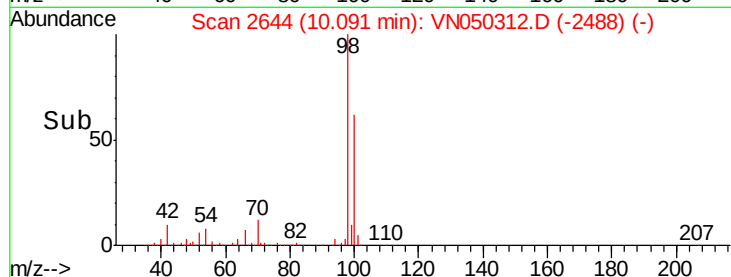
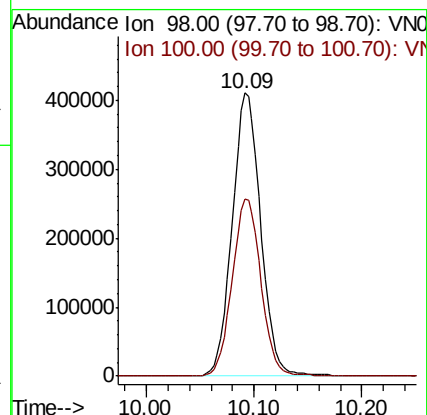
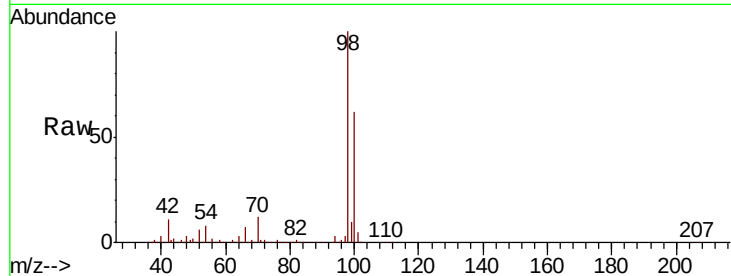
DSN002-SEWER-OUTLET-002

Tot Ion: 98 Resp: 756807

Ion Ratio Lower Upper

98 100

100 63.1 51.2 76.8



#76

1,3,5-Trimethylbenzene

Concen: 0.21 ug/l

RT: 13.06 min Scan# 3566

Delta R.T. 0.32 min

Lab File: VN050312.D

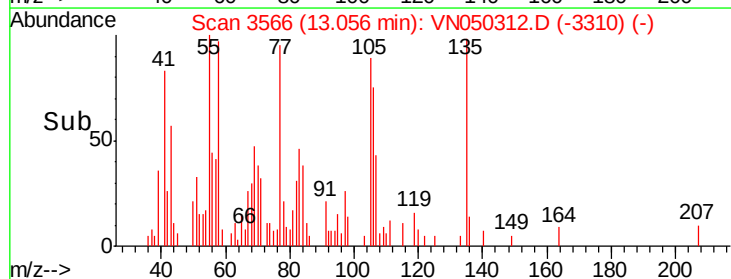
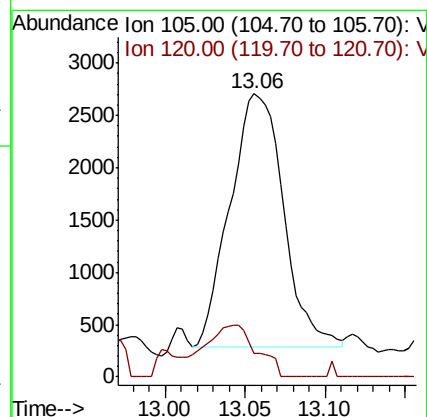
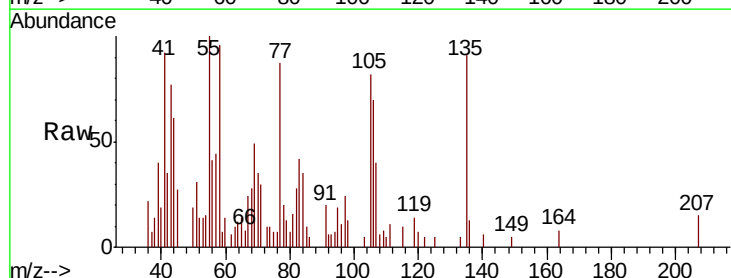
Acq: 3 Aug 2018 14:49

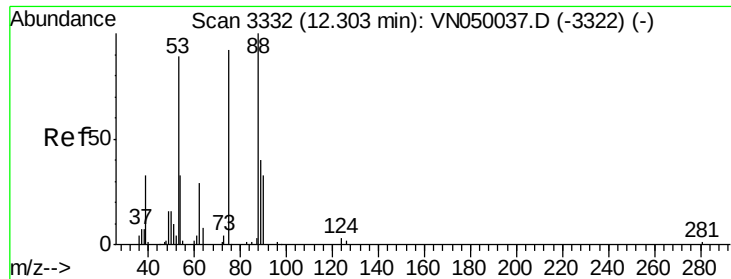
Tgt Ion:105 Resp: 5576

Ion Ratio Lower Upper

105 100

120 19.3 0.0 98.0





#77

t-1,4-Dichloro-2-butene

Concen: 44.94 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050312.D

Acq: 3 Aug 2018 14:49

Instrument :

MSVOA_N

ClientSampleId :

DSN002-SEWER-OUTLET-002

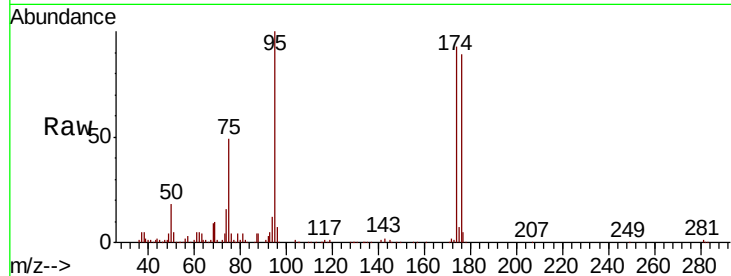
Tot Ion: 75 Resp: 112238

Ion Ratio Lower Upper

75 100

53 0.5 44.6 134.0#

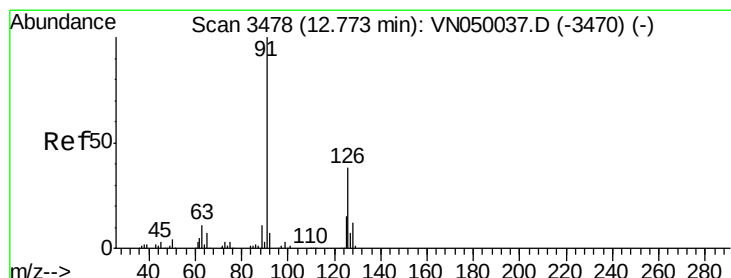
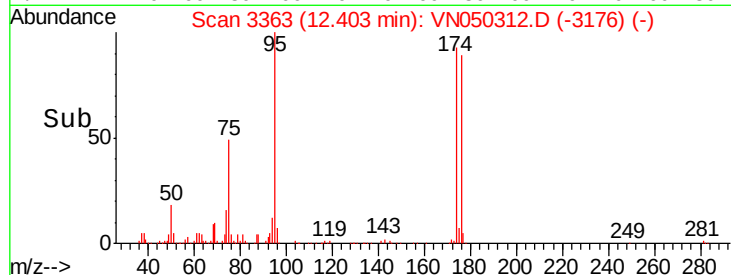
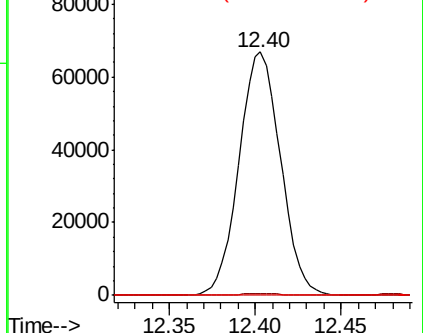
89 0.0 20.7 62.1#



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0



#78

4-Chlorotoluene

Concen: 5.89 ug/l

RT: 12.75 min Scan# 3472

Delta R.T. -0.02 min

Lab File: VN050312.D

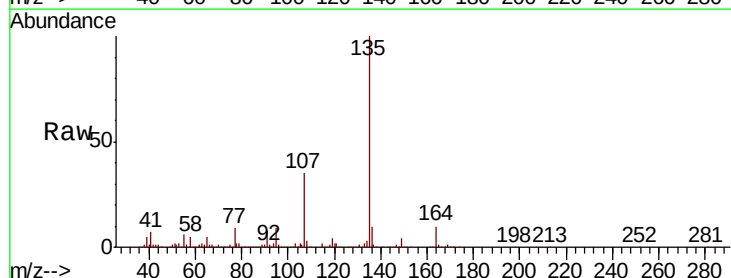
Acq: 3 Aug 2018 14:49

Tgt Ion: 91 Resp: 132905

Ion Ratio Lower Upper

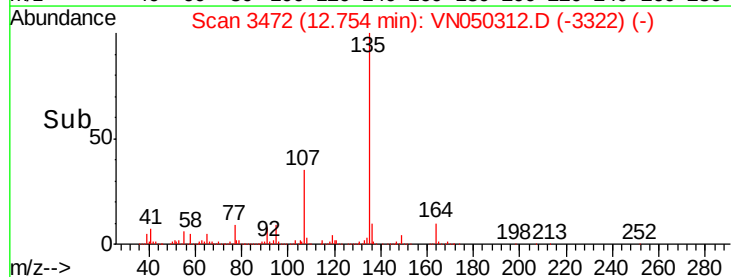
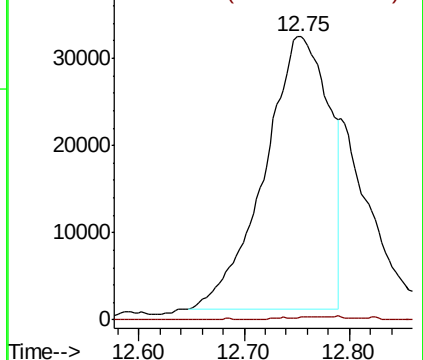
91 100

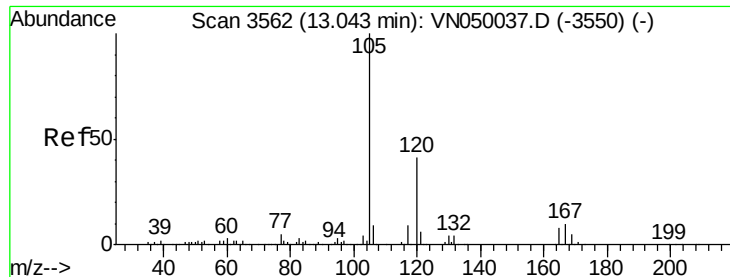
126 0.1 0.0 68.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 126.00 (125.70 to 126.70): V

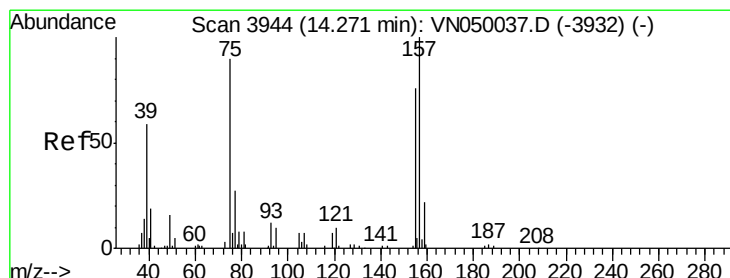
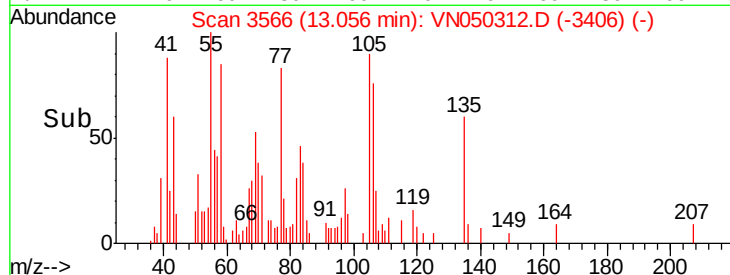
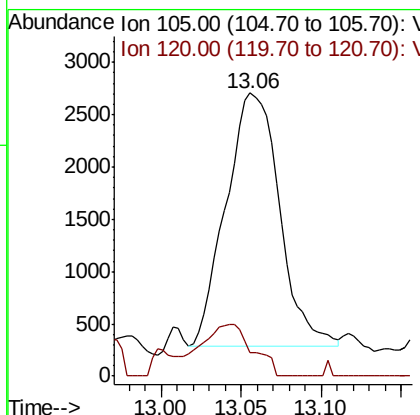
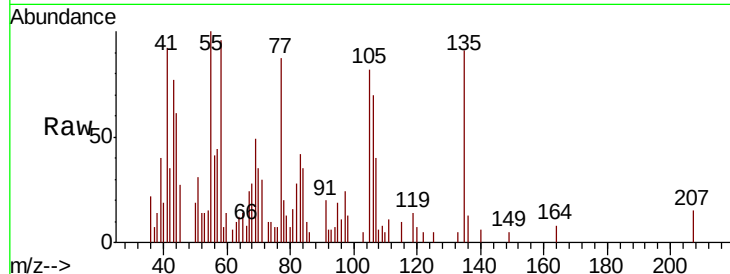




#80
 1,2,4-Trimethylbenzene
 Concen: 0.21 ug/l
 RT: 13.06 min Scan# 3566
 Delta R.T. 0.01 min
 Lab File: VN050312.D
 Acq: 3 Aug 2018 14:49

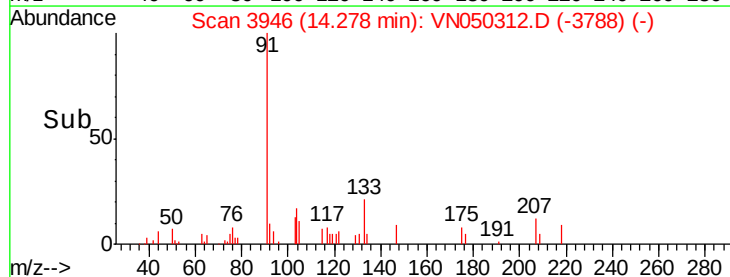
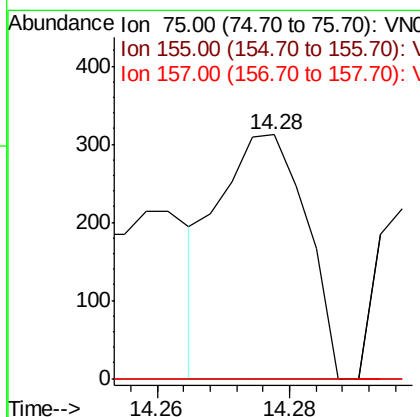
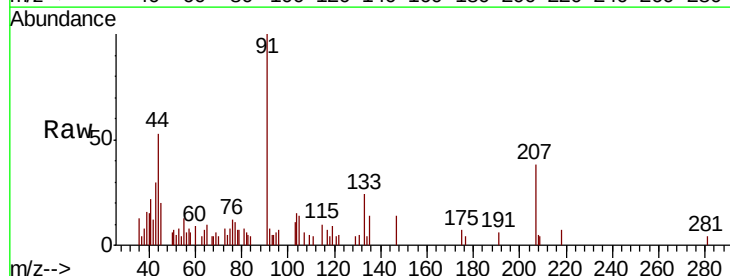
Instrument :
 MSVOA_N
 ClientSampleId :
 DSN002-SEWER-OUTLET-002

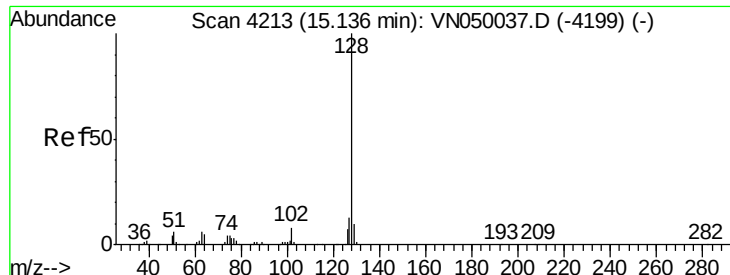
Tot Ion:105 Resp: 5576
 Ion Ratio Lower Upper
 105 100
 120 19.3 0.0 90.6



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.21 ug/l
 RT: 14.28 min Scan# 3946
 Delta R.T. 0.01 min
 Lab File: VN050312.D
 Acq: 3 Aug 2018 14:49

Tgt Ion: 75 Resp: 289
 Ion Ratio Lower Upper
 75 100
 155 0.0 73.0 109.6#
 157 0.0 94.9 142.3#

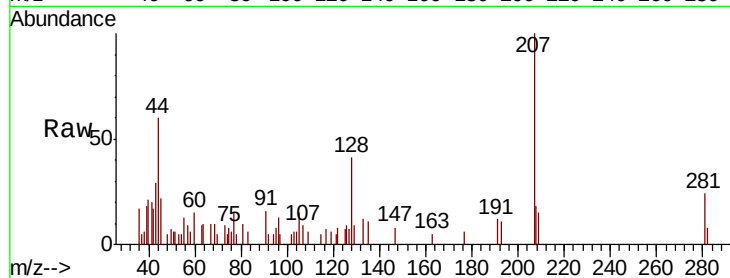




#91
 Naphthalene
 Concen: 7.74 ug/l
 RT: 15.13 min Scan# 4212
 Delta R.T. -0.00 min
 Lab File: VN050312.D
 Acq: 3 Aug 2018 14:49

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

Tot Ion	Ratio	Lower	Upper
128	100		
127	9.0	10.2	15.4#
129	10.6	9.0	13.4



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

