

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082120\
 Data File : VN063076.D
 Acq On : 21 Aug 2020 13:24
 Operator : JC/MD
 Sample : L3741-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

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

Quant Time: Aug 22 00:52:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Aug 20 14:01:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	29583	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	145523	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	136296	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	65857	31.42	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.73%
60) 4-Bromofluorobenzene	12.38	95	50324	23.37	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	77.90%
63) Toluene-d8	10.06	98	179574	28.71	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	95.70%

Target Compounds

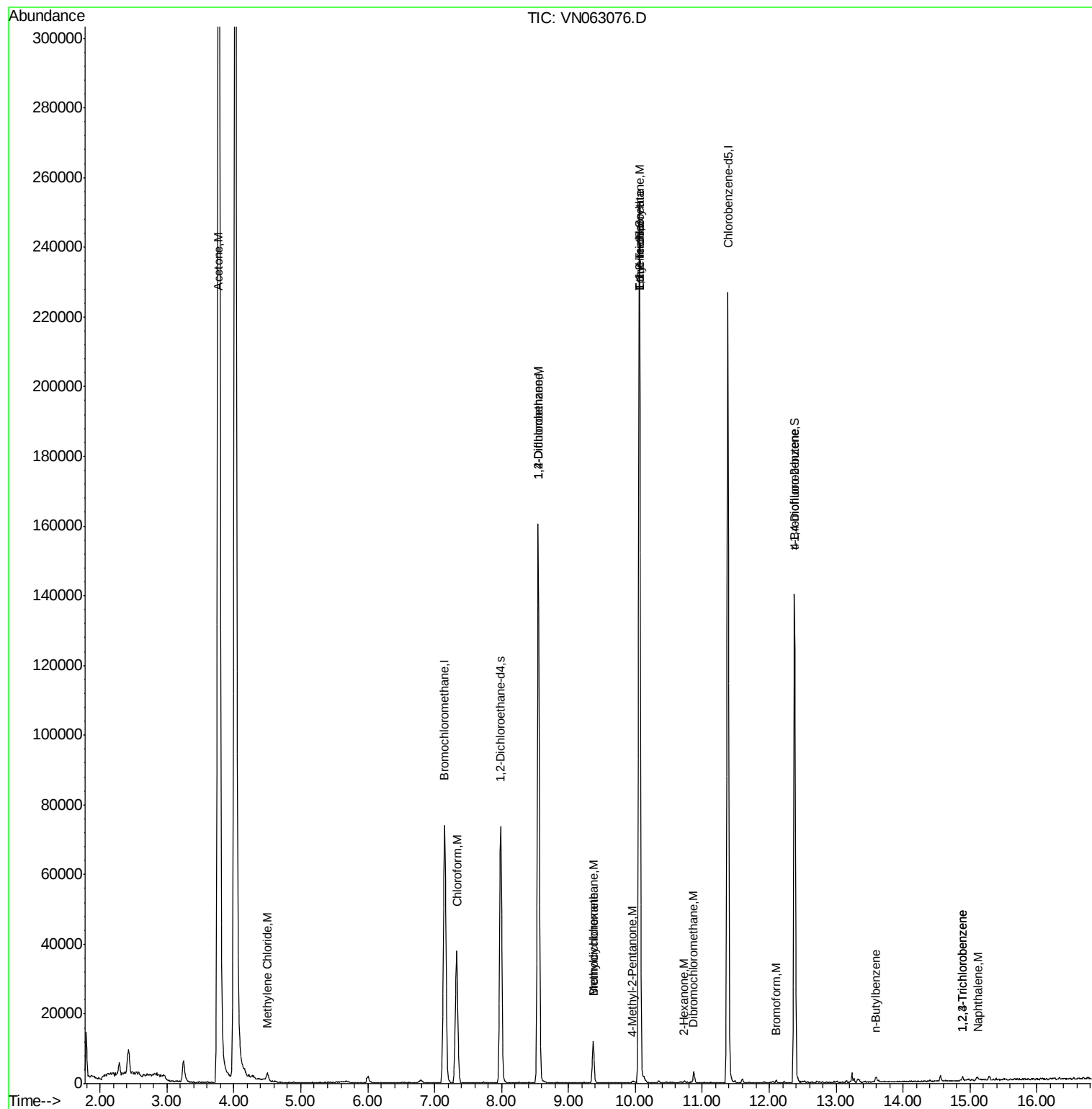
					Ovalue	
15) Acetone	3.77	58	272637	1169.143	ug/l	97
18) Methylene Chloride	4.49	84	585	0.303	ug/l #	62
25) Chloroform	7.33	83	41132	12.685	ug/l	95
36) 1,2-Dichloroethane	8.55	62	4876	2.110	ug/l #	74
38) Methylcyclohexane	9.37	83	9191	3.467	ug/l #	16
41) Bromodichloromethane	9.37	83	9191	3.624	ug/l	97
50) 1,1,2-Trichloroethane	10.07	97	6897	3.909	ug/l #	1
51) Ethyl methacrylate	10.07	69	514	0.214	ug/l #	39
53) Dibromochloromethane	10.87	129	2156	1.113	ug/l	96
56) Bromoform	12.10	173	348	0.245	ug/l #	83
58) 4-Methyl-2-Pentanone	9.95	43	507	0.259	ug/l #	57
59) 2-Hexanone	10.74	43	731	0.523	ug/l #	49
77) t-1,4-Dichloro-2-butene	12.38	75	24661	31.812	ug/l #	12
85) n-Butylbenzene	13.60	91	1214	0.216	ug/l	94
89) 1,2,4-Trichlorobenzene	14.89	180	521	0.304	ug/l #	85
91) Naphthalene	15.11	128	1669	0.440	ug/l #	68
92) 1,2,3-Trichlorobenzene	14.89	180	521	0.304	ug/l	85

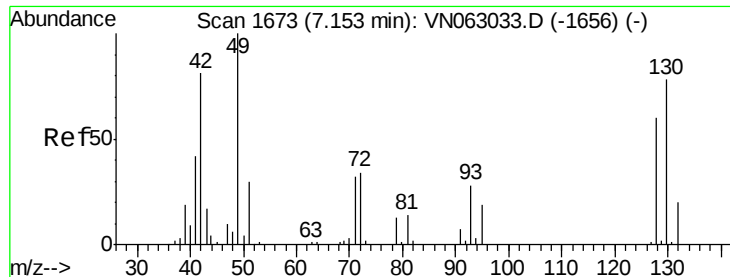
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Aug 20 14:01:17 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.15 min Scan# 1672

Delta R.T. -0.00 min

Lab File: VN063076.D

Acq: 21 Aug 2020 13:24

Instrument :

MSVOA_N

ClientSampleId :

DSN-002-SEWER-OUTLET-002

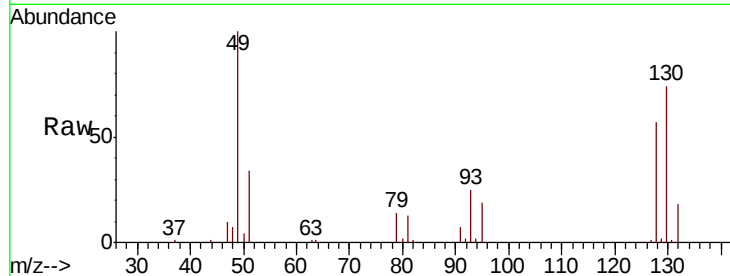
Tot Ion:128 Resp: 29583

Ion Ratio Lower Upper

128 100

49 173.9 0.0 437.5

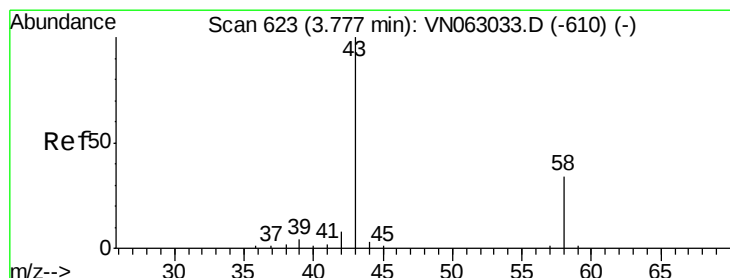
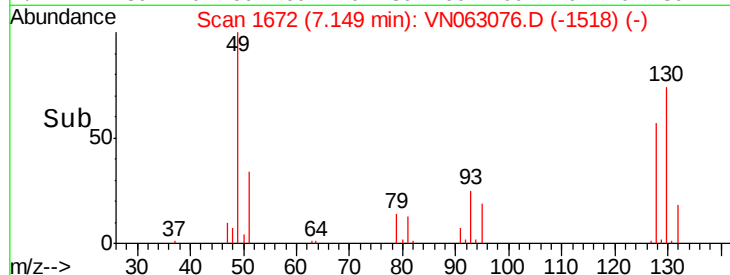
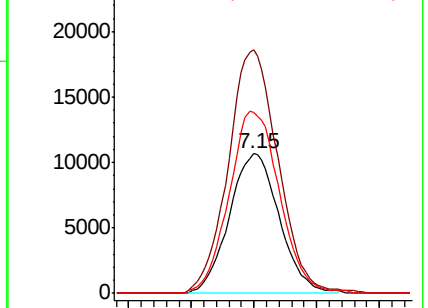
130 131.4 0.0 327.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VNO

Ion 130.00 (129.70 to 130.70): V



#15

Acetone

Concen: 1169.143 ug/l

RT: 3.77 min Scan# 622

Delta R.T. -0.00 min

Lab File: VN063076.D

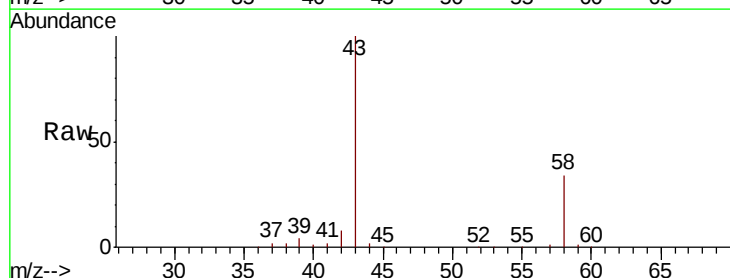
Acq: 21 Aug 2020 13:24

Tgt Ion: 58 Resp: 272637

Ion Ratio Lower Upper

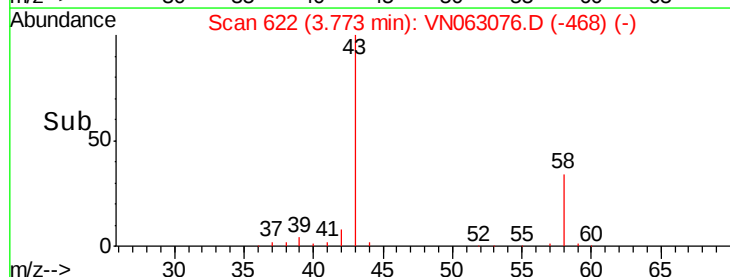
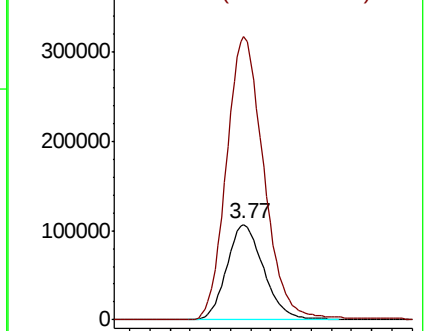
58 100

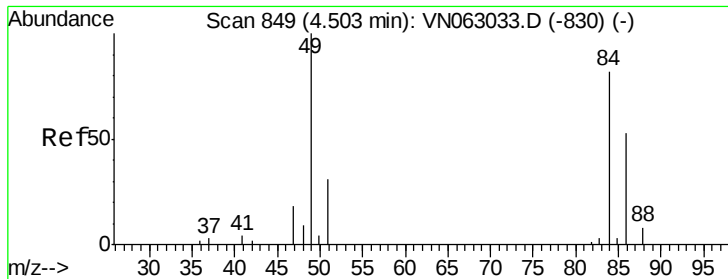
43 297.0 233.2 349.8



Abundance Ion 58.00 (57.70 to 58.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

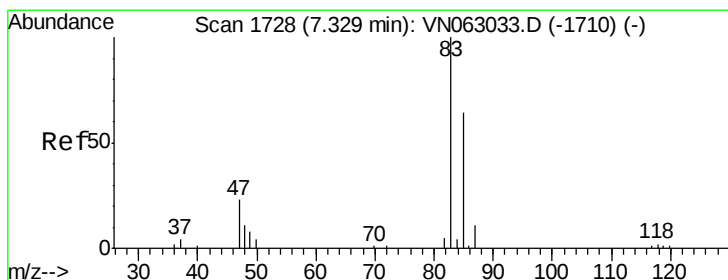
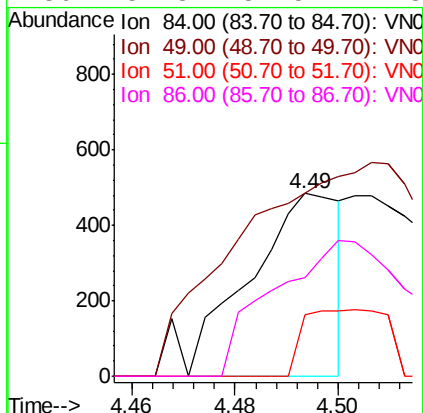
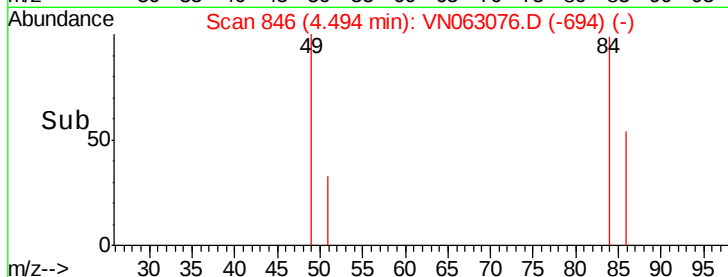
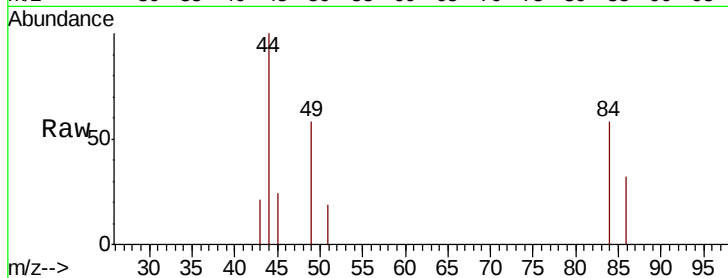




#18
Methvlene Chloride
Concen: 0.303 ug/l
RT: 4.49 min Scan# 846
Delta R.T. -0.01 min
Lab File: VN063076.D
Acq: 21 Aug 2020 13:24

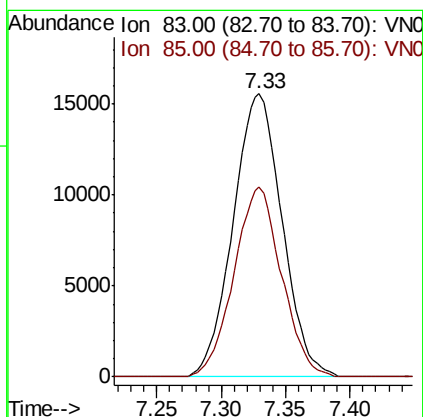
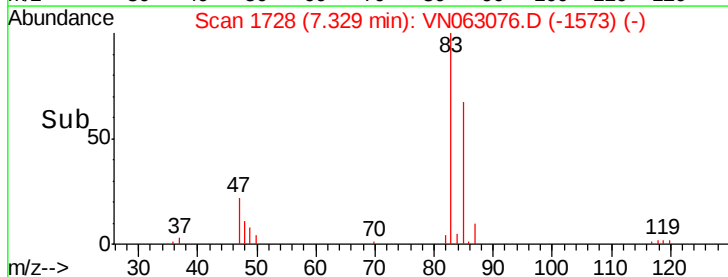
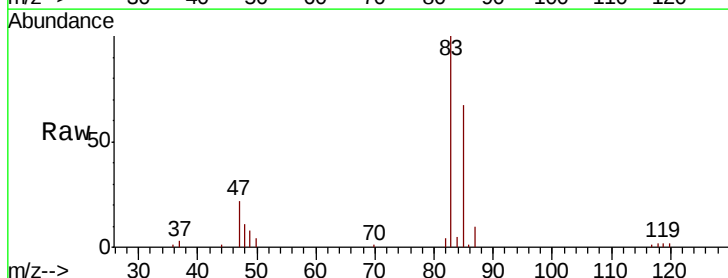
Instrument :
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ClientSampleId :
DSN-002-SEWER-OUTLET-002

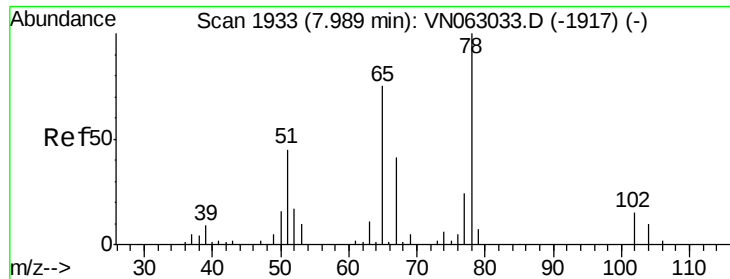
Tot Ion: 84 Resp: 585
Ion Ratio Lower Upper
84 100
49 55.0 97.8 146.8#
51 33.5 30.7 46.1
86 54.3 51.5 77.3



#25
Chloroform
Concen: 12.685 ug/l
RT: 7.33 min Scan# 1728
Delta R.T. -0.00 min
Lab File: VN063076.D
Acq: 21 Aug 2020 13:24

Tgt Ion: 83 Resp: 41132
Ion Ratio Lower Upper
83 100
85 67.3 51.0 76.4





#27

1,2-Dichloroethane-d4

Concen: 31.420 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. -0.00 min

Lab File: VN063076.D

Acq: 21 Aug 2020 13:24

Instrument :

MSVOA_N

ClientSampleId :

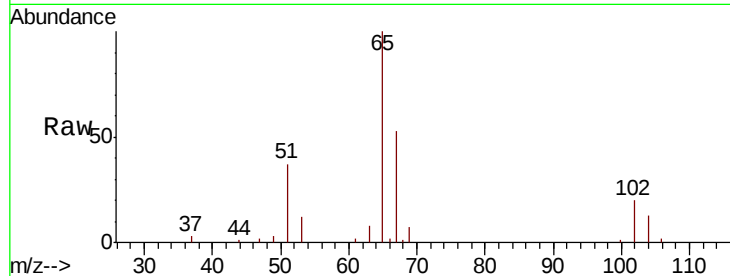
DSN-002-SEWER-OUTLET-002

Tot Ion: 65 Resp: 65857

Ion Ratio Lower Upper

65 100

67 53.7 43.8 65.6



Abundance Ion 65.00 (64.70 to 65.70): VN063033.D (-1917) (-)

Ion 67.00 (66.70 to 67.70): VN063033.D (-1917) (-)

7.99

30000

25000

20000

15000

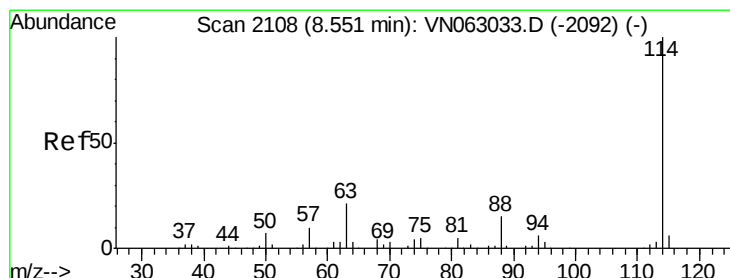
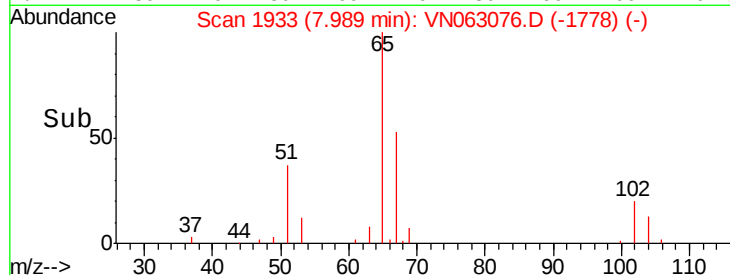
10000

5000

0

7.90 7.95 8.00 8.05

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.55 min Scan# 2107

Delta R.T. -0.00 min

Lab File: VN063076.D

Acq: 21 Aug 2020 13:24

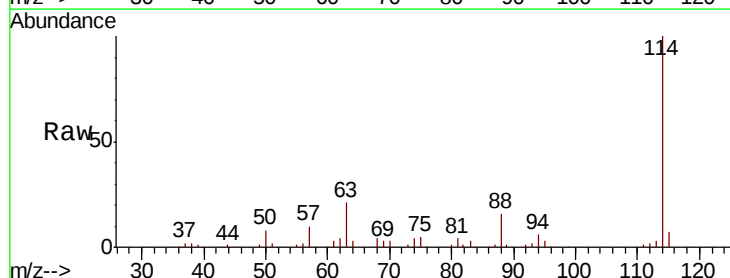
Tgt Ion: 114 Resp: 145523

Ion Ratio Lower Upper

114 100

63 20.9 17.0 25.6

88 15.7 12.6 18.8



Abundance Ion 114.00 (113.70 to 114.70): VN063033.D (-2092) (-)

Ion 63.00 (62.70 to 63.70): VN063033.D (-2092) (-)

Ion 88.00 (87.70 to 88.70): VN063033.D (-2092) (-)

8.55

80000

60000

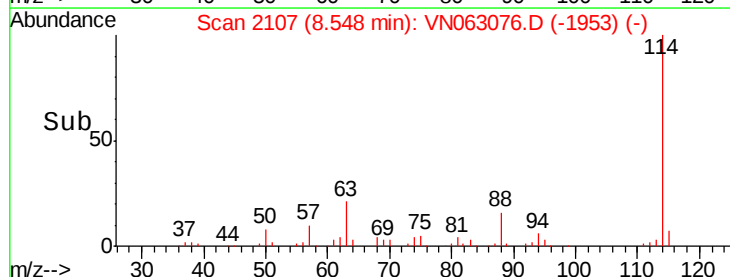
40000

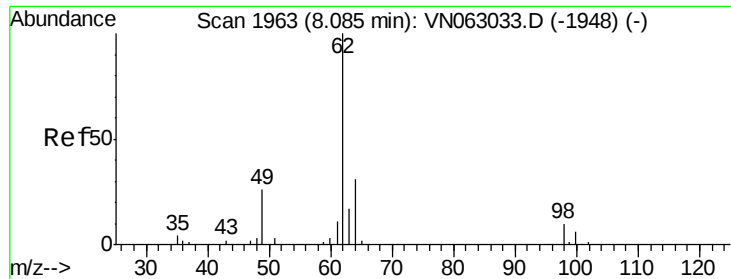
20000

0

8.50 8.55 8.60

Time-->

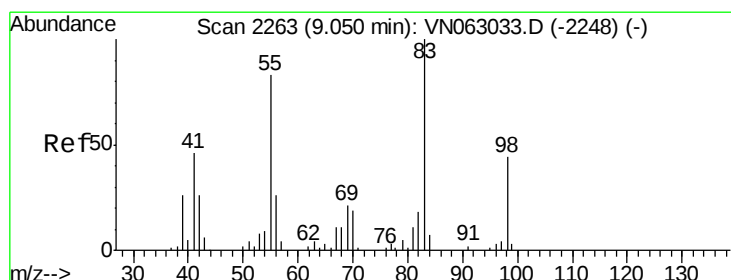
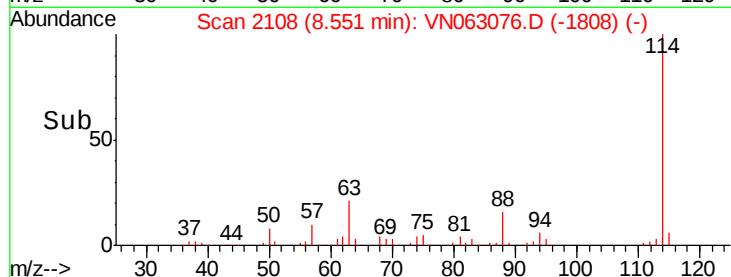
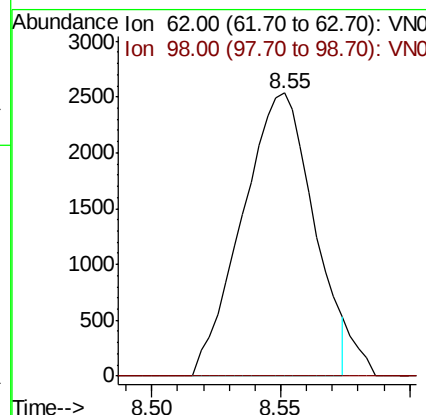
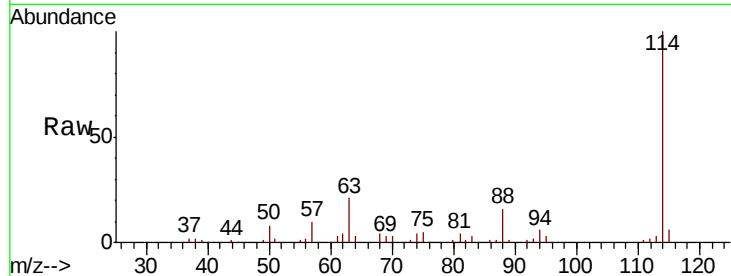




#36
 1,2-Dichloroethane
 Concen: 2.110 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.47 min
 Lab File: VN063076.D
 Acq: 21 Aug 2020 13:24

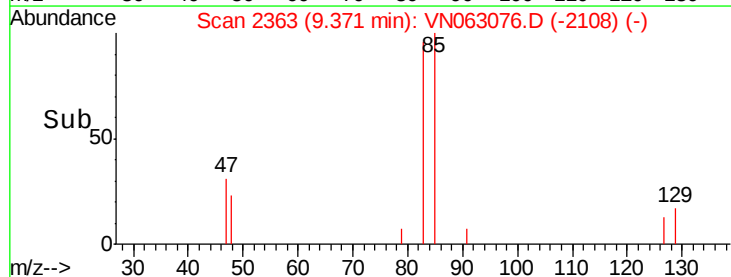
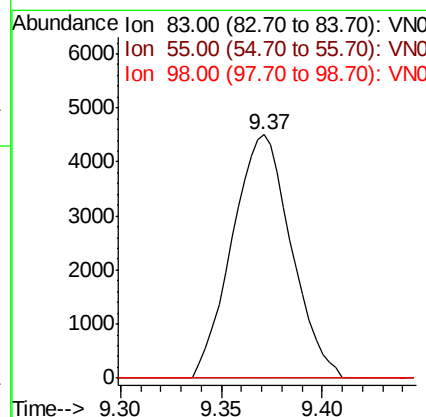
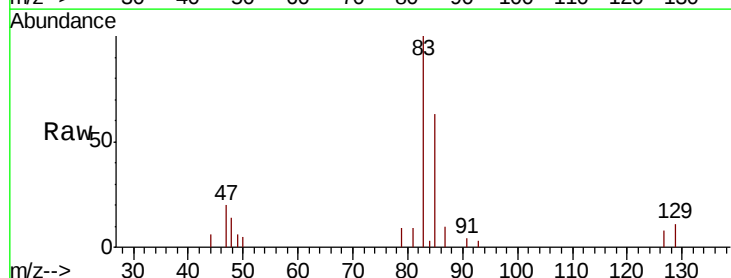
Instrument :
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 ClientSampleId :
 DSN-002-SEWER-OUTLET-002

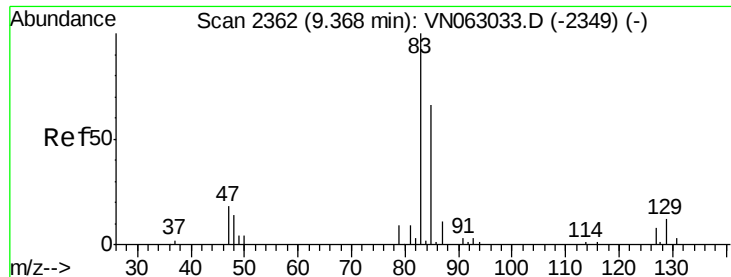
Tot Ion: 62 Resp: 4876
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.6 11.4#



#38
 Methylcyclohexane
 Concen: 3.467 ug/l
 RT: 9.37 min Scan# 2363
 Delta R.T. 0.32 min
 Lab File: VN063076.D
 Acq: 21 Aug 2020 13:24

Tgt Ion: 83 Resp: 9191
 Ion Ratio Lower Upper
 83 100
 55 0.0 41.9 125.7#
 98 0.0 22.2 66.6#

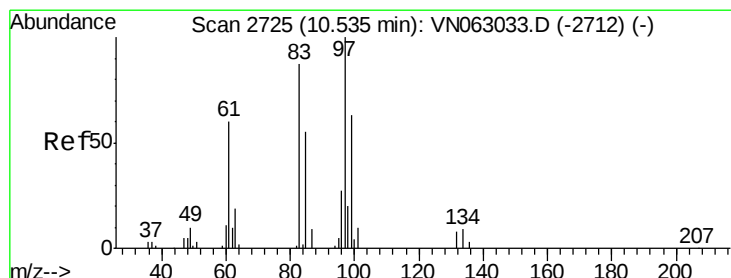
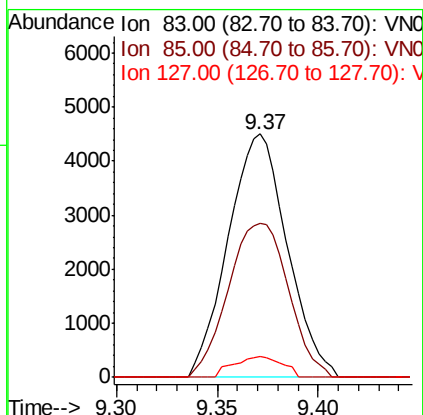
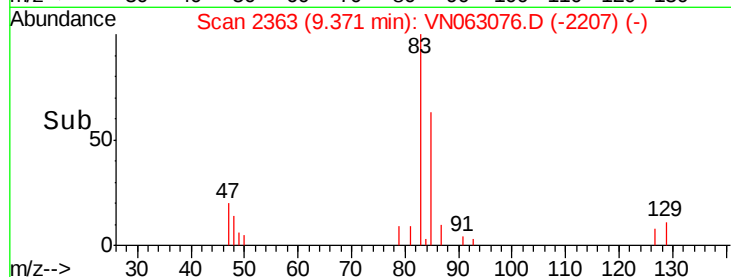
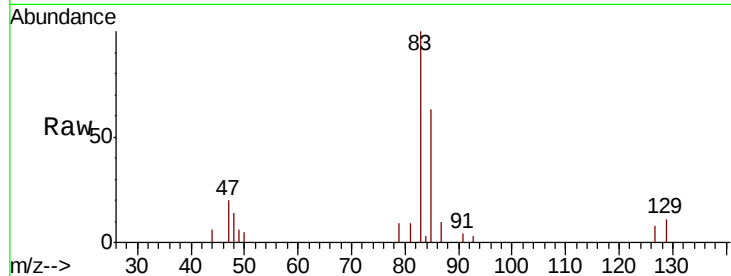




#41
 Bromodichloromethane
 Concen: 3.624 ug/l
 RT: 9.37 min Scan# 2363
 Delta R.T. 0.00 min
 Lab File: VN063076.D
 Acq: 21 Aug 2020 13:24

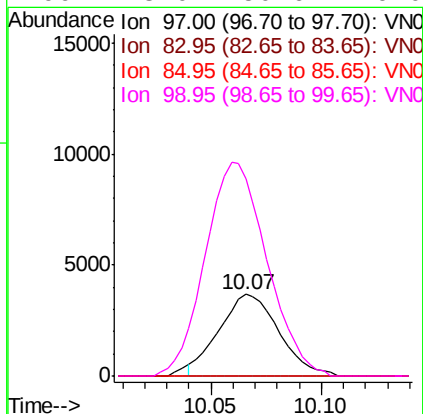
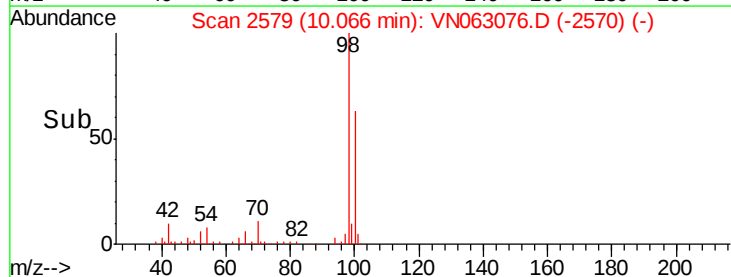
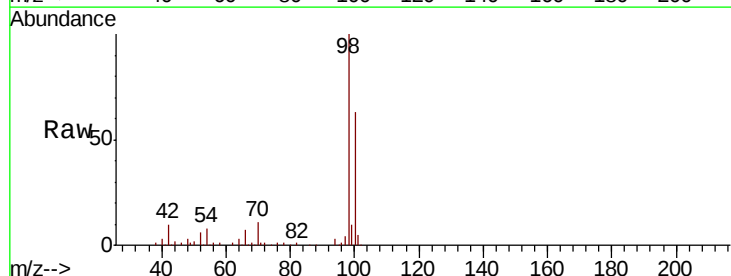
Instrument :
 MSVOA_N
 ClientSampleId :
 DSN-002-SEWER-OUTLET-002

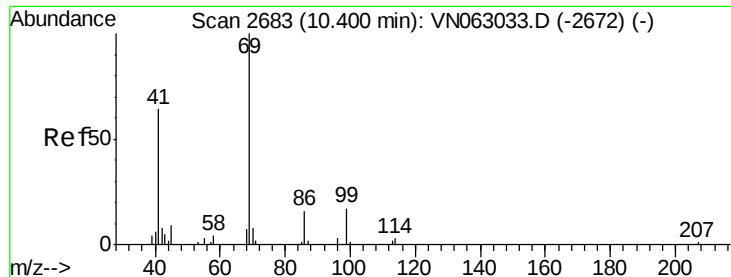
Tot Ion: 83 Resp: 9191
 Ion Ratio Lower Upper
 83 100
 85 63.1 52.6 79.0
 127 8.4 7.4 11.0



#50
 1,1,2-Trichloroethane
 Concen: 3.909 ug/l
 RT: 10.07 min Scan# 2579
 Delta R.T. -0.47 min
 Lab File: VN063076.D
 Acq: 21 Aug 2020 13:24

Tgt Ion: 97 Resp: 6897
 Ion Ratio Lower Upper
 97 100
 83 0.0 69.9 104.9#
 85 0.0 44.0 66.0#
 99 243.0 50.6 76.0#





#51

Ethyl methacrylate

Concen: 0.214 ug/l

RT: 10.07 min Scan# 2579

Delta R.T. -0.33 min

Lab File: VN063076.D

Acq: 21 Aug 2020 13:24

Instrument :

MSVOA_N

ClientSampleId :

DSN-002-SEWER-OUTLET-002

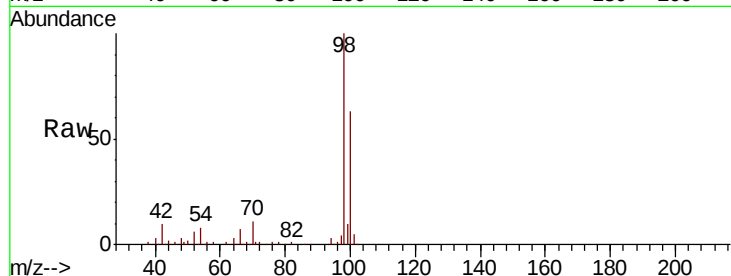
Tot Ion: 69 Resp: 514

Ion Ratio Lower Upper

69 100

41 112.9 32.1 96.5#

39 0.0 16.1 48.3#

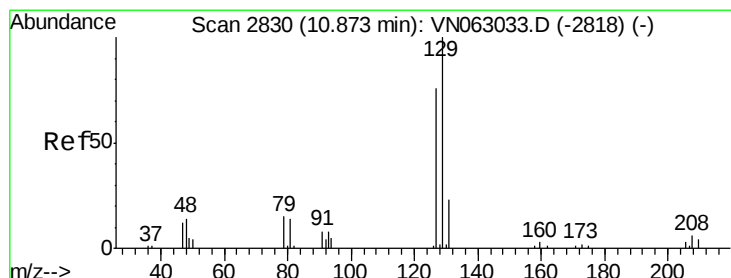
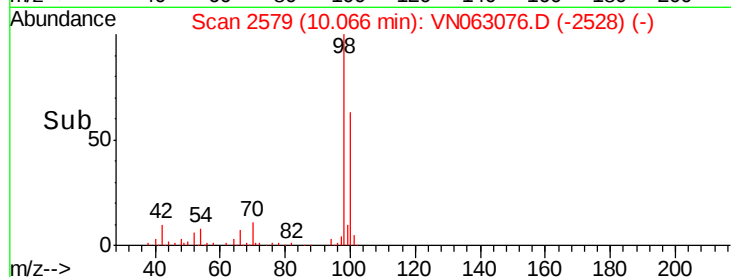


Abundance Ion 69.00 (68.70 to 69.70): VN063033.D (-2672) (-)

Ion 41.00 (40.70 to 41.70): VN063033.D (-2672) (-)

Ion 39.00 (38.70 to 39.70): VN063033.D (-2672) (-)

Time-->



#53

Dibromochloromethane

Concen: 1.113 ug/l

RT: 10.87 min Scan# 2830

Delta R.T. -0.00 min

Lab File: VN063076.D

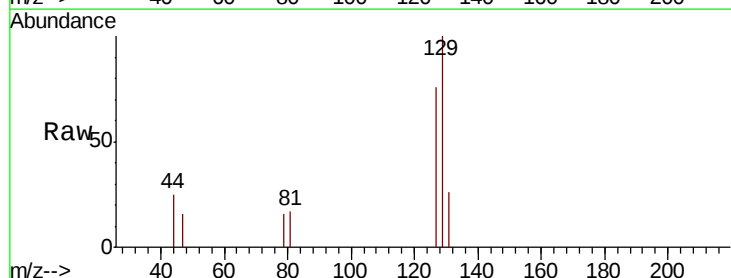
Acq: 21 Aug 2020 13:24

Tgt Ion: 129 Resp: 2156

Ion Ratio Lower Upper

129 100

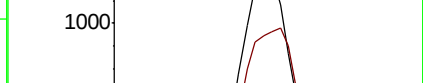
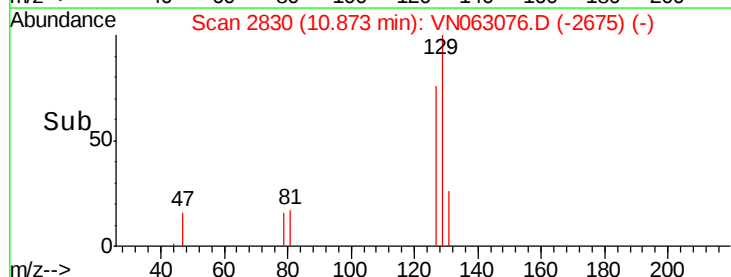
127 80.6 38.7 116.1

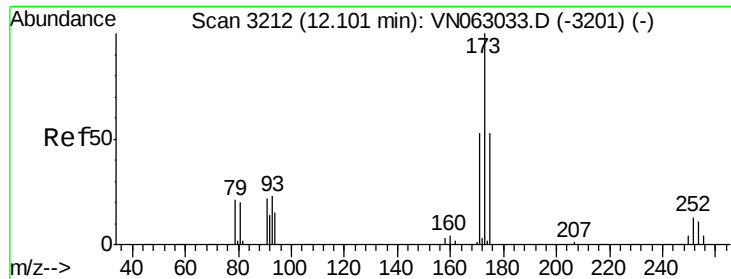


Abundance Ion 129.00 (128.70 to 129.70): VN063033.D (-2818) (-)

Ion 127.00 (126.70 to 127.70): VN063033.D (-2818) (-)

Time-->





#56

Bromoform

Concen: 0.245 ug/l

RT: 12.10 min Scan# 3213

Delta R.T. 0.00 min

Lab File: VN063076.D

Acq: 21 Aug 2020 13:24

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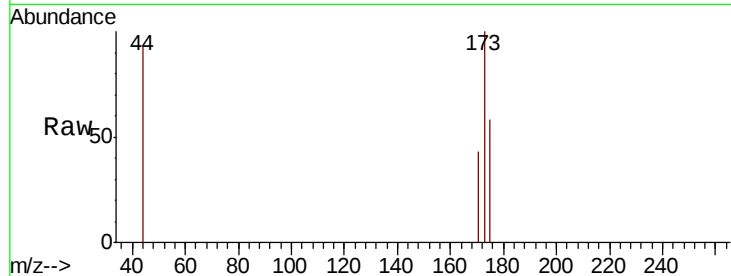
Tot Ion:173 Resp: 348

Ion Ratio Lower Upper

173 100

175 61.2 41.2 61.8

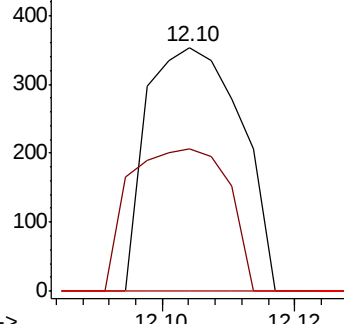
254 0.0 9.0 13.4#



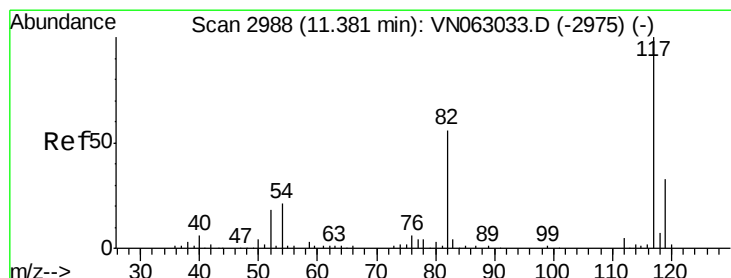
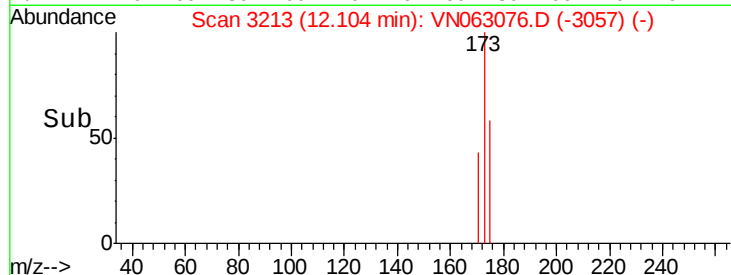
Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



Time-->



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN063076.D

Acq: 21 Aug 2020 13:24

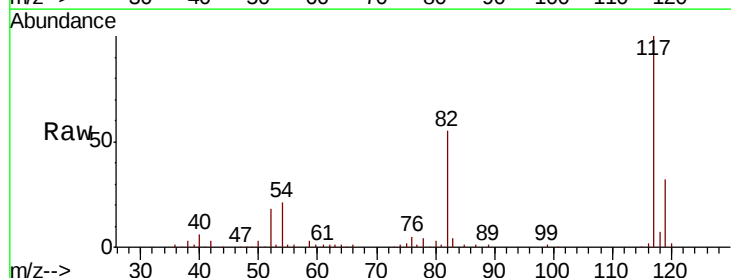
Tgt Ion:117 Resp: 136296

Ion Ratio Lower Upper

117 100

82 55.0 44.9 67.3

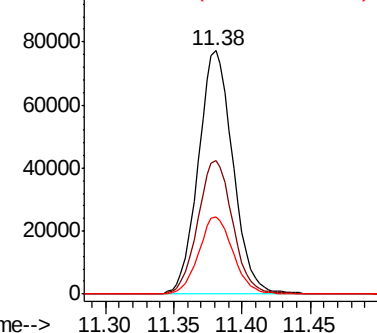
119 31.5 26.0 39.0



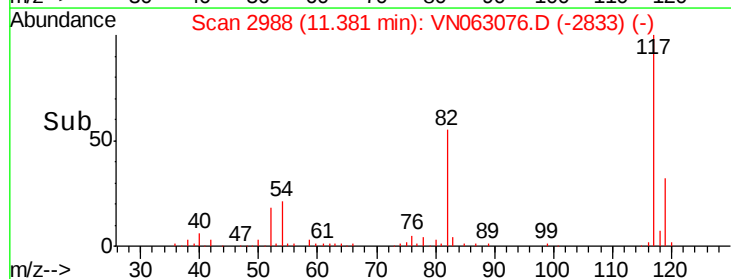
Abundance Ion 117.00 (116.70 to 117.70): V

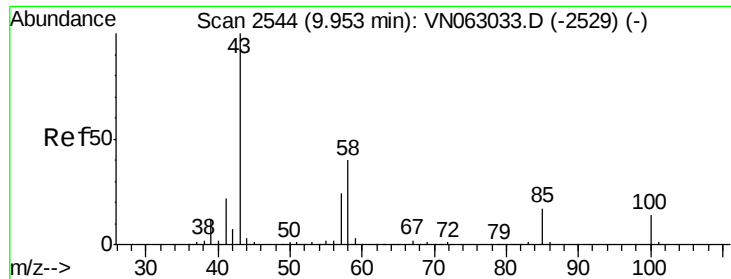
Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V



Time-->

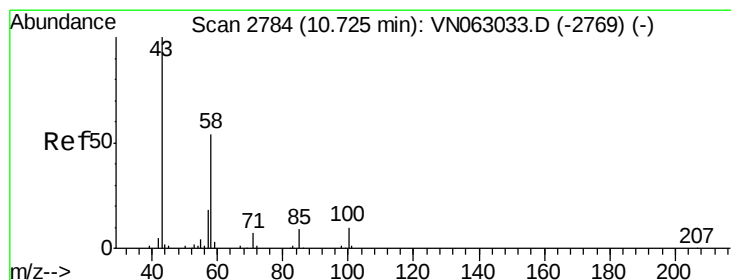
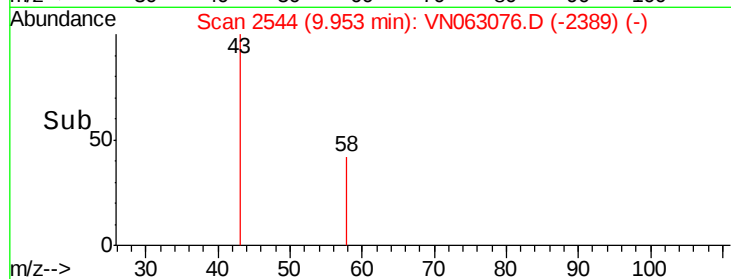
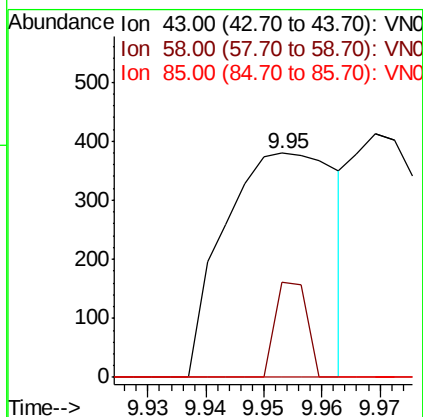
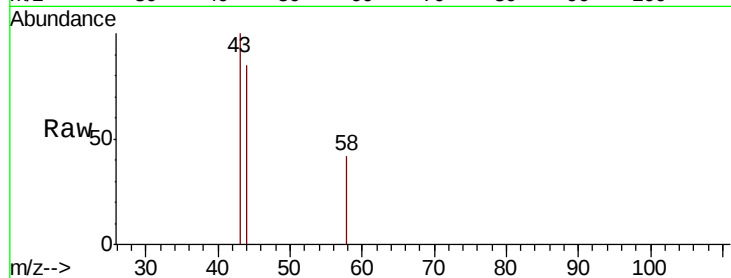




#58
4-Methyl-2-Pentanone
Concen: 0.259 ug/l
RT: 9.95 min Scan# 2544
Delta R.T. -0.00 min
Lab File: VN063076.D
Acq: 21 Aug 2020 13:24

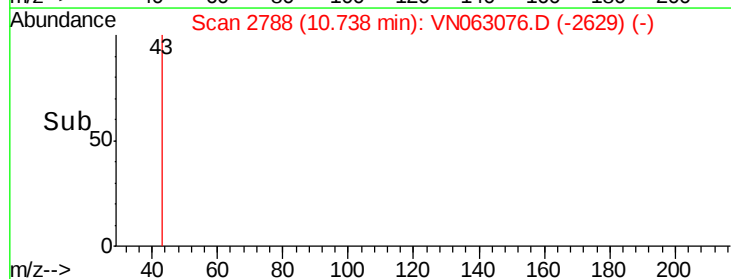
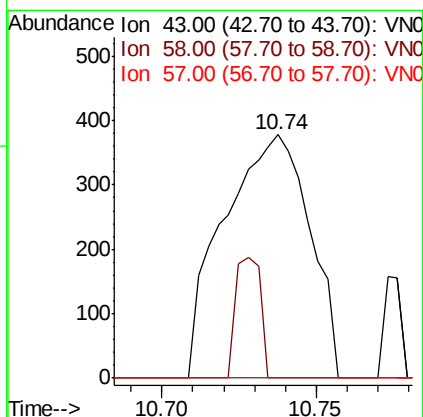
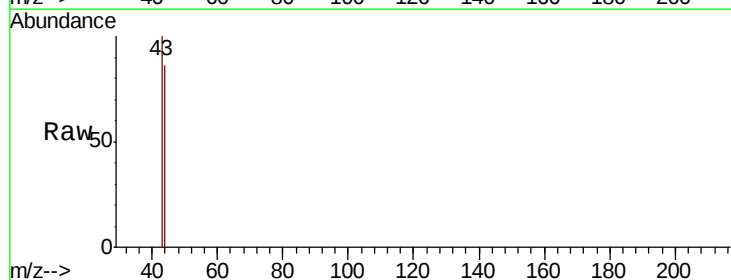
Instrument :
MSVOA_N
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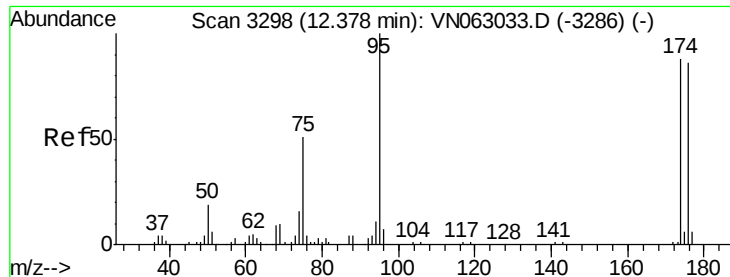
Tot Ion: 43 Resp: 507
Ion Ratio Lower Upper
43 100
58 12.2 31.4 47.0#
85 0.0 13.4 20.2#



#59
2-Hexanone
Concen: 0.523 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.01 min
Lab File: VN063076.D
Acq: 21 Aug 2020 13:24

Tgt Ion: 43 Resp: 731
Ion Ratio Lower Upper
43 100
58 14.2 42.6 64.0#
57 0.0 14.6 21.8#

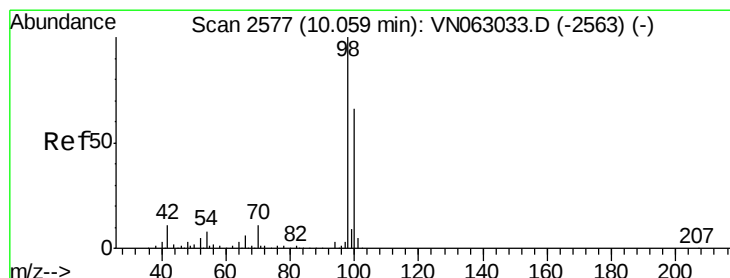
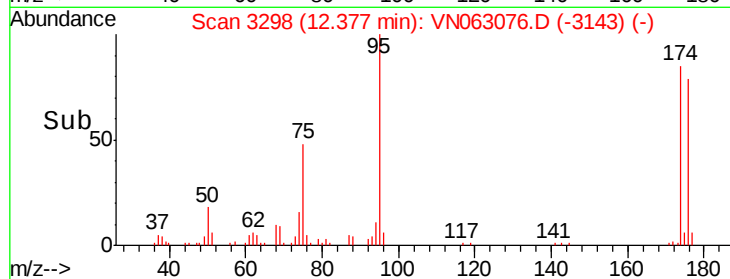
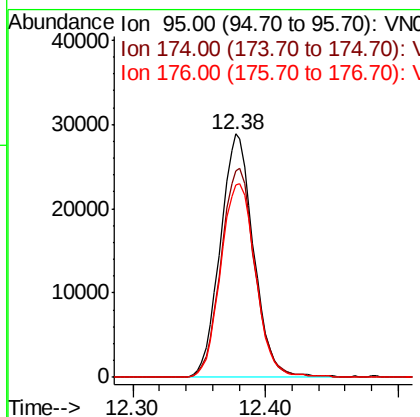
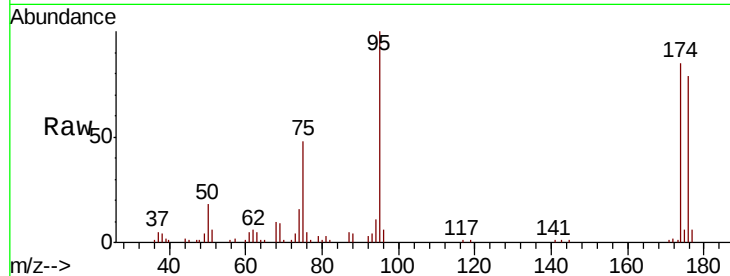




#60
4-Bromofluorobenzene
Concen: 23.366 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN063076.D
Acq: 21 Aug 2020 13:24

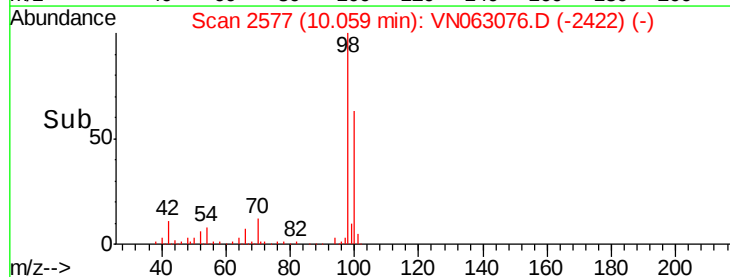
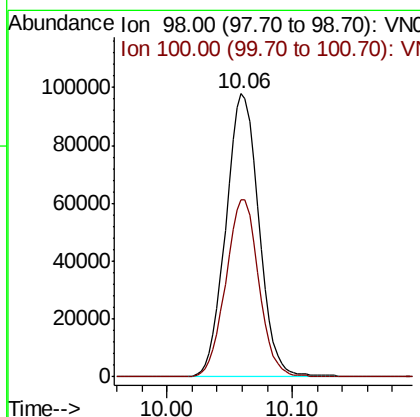
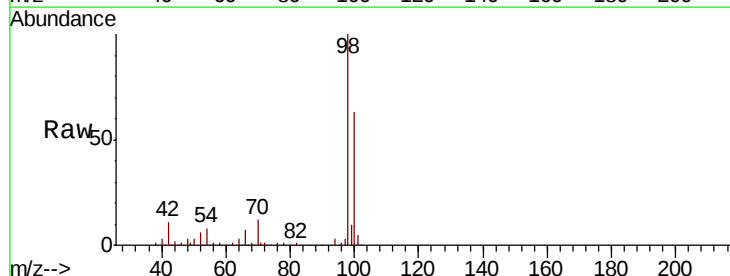
Instrument :
MSVOA_N
ClientSampleId :
DSN-002-SEWER-OUTLET-002

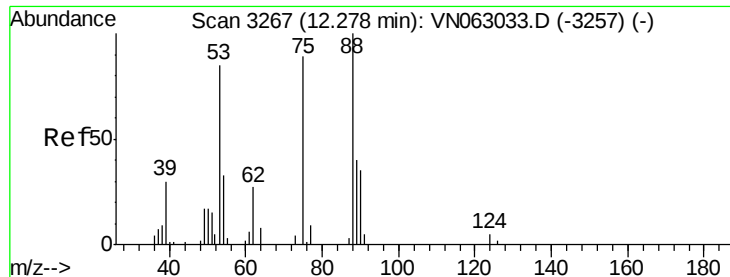
Tot Ion: 95 Resp: 50324
Ion Ratio Lower Upper
95 100
174 87.7 70.1 105.1
176 83.6 66.8 100.2



#63
Toluene-d8
Concen: 28.708 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN063076.D
Acq: 21 Aug 2020 13:24

Tgt Ion: 98 Resp: 179574
Ion Ratio Lower Upper
98 100
100 62.2 51.4 77.2

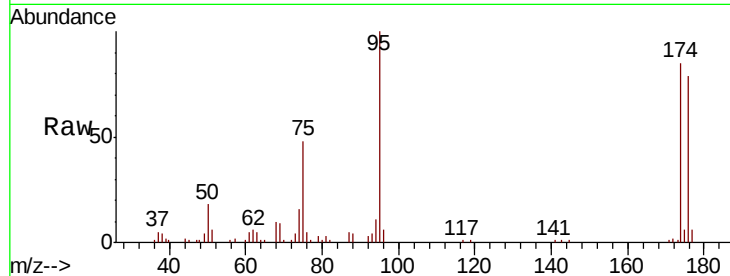




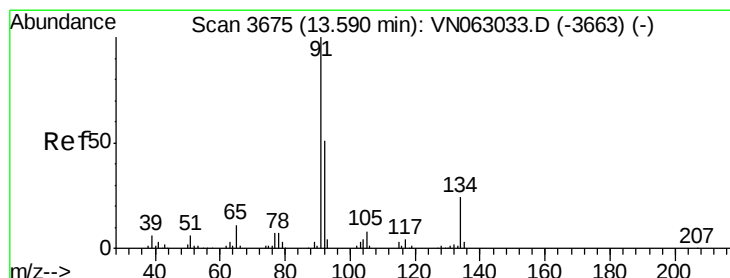
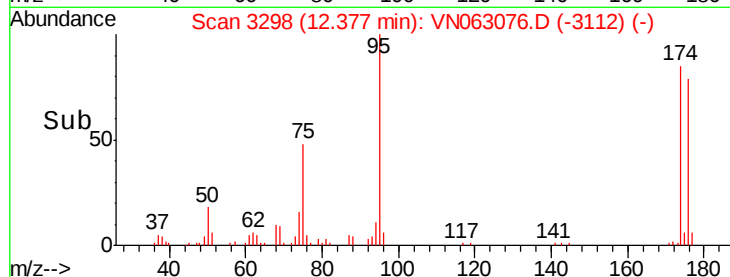
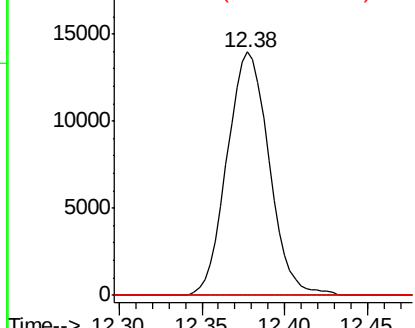
#77
t-1,4-Dichloro-2-butene
Concen: 31.812 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.10 min
Lab File: VN063076.D
Acq: 21 Aug 2020 13:24

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

Tot Ion: 75 Resp: 24661
Ion Ratio Lower Upper
75 100
53 0.0 47.0 141.0#
89 0.0 22.9 68.7#

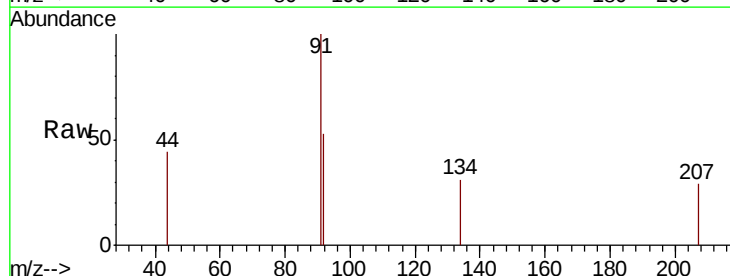


Abundance Ion 75.00 (74.70 to 75.70): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 89.00 (88.70 to 89.70): VN0

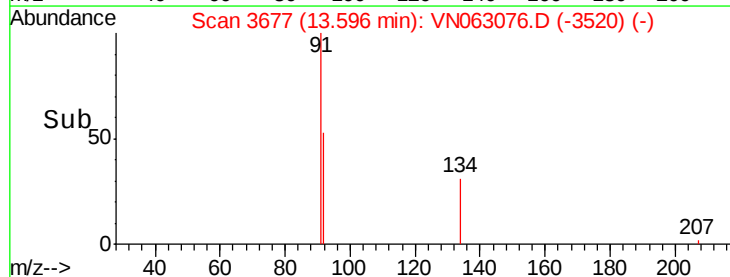
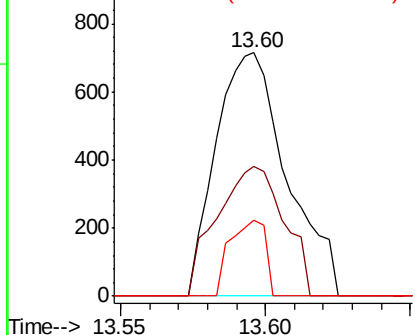


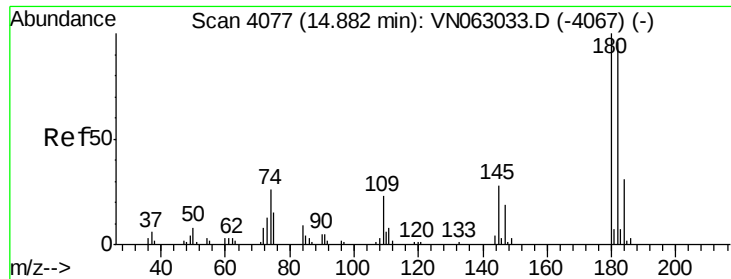
#85
n-Butylbenzene
Concen: 0.216 ug/l
RT: 13.60 min Scan# 3677
Delta R.T. 0.01 min
Lab File: VN063076.D
Acq: 21 Aug 2020 13:24

Tgt Ion: 91 Resp: 1214
Ion Ratio Lower Upper
91 100
92 50.6 0.0 100.6
134 15.4 0.0 47.4



Abundance Ion 91.00 (90.70 to 91.70): VN0
Ion 92.00 (91.70 to 92.70): VN0
Ion 134.00 (133.70 to 134.70): V

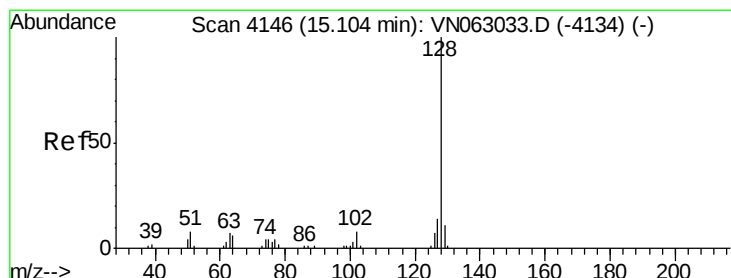
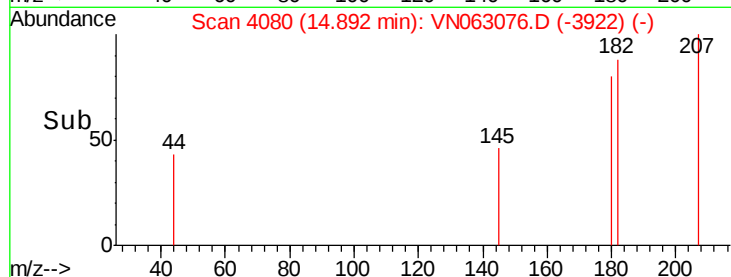
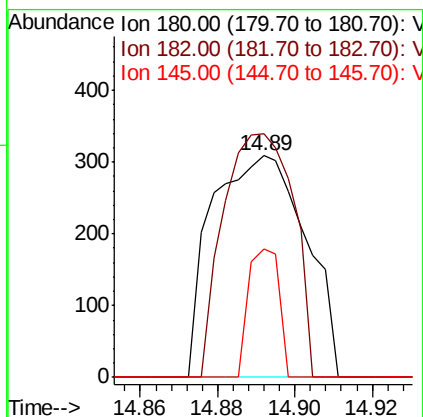
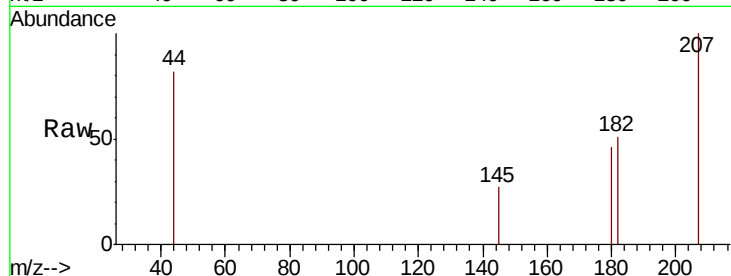




#89
 1,2,4-Trichlorobenzene
 Concen: 0.304 ug/l
 RT: 14.89 min Scan# 4080
 Delta R.T. 0.01 min
 Lab File: VN063076.D
 Acq: 21 Aug 2020 13:24

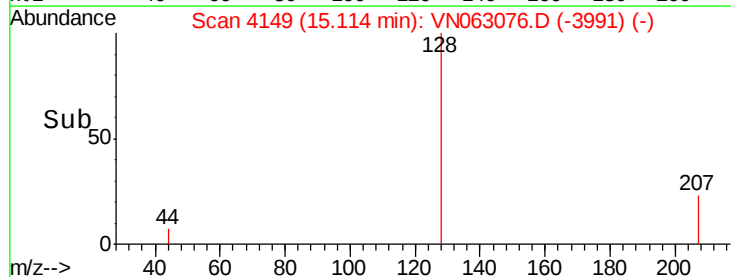
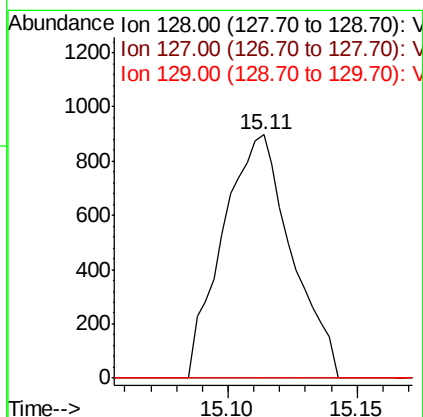
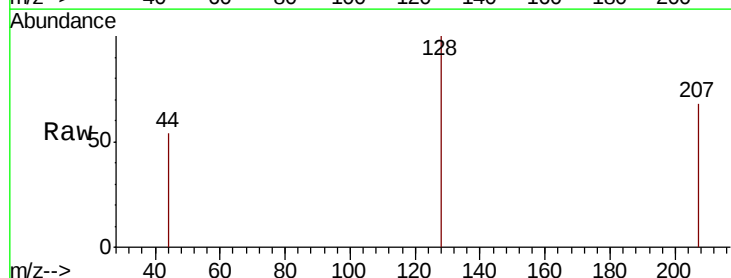
Instrument :
 MSVOA_N
 ClientSampleId :
 DSN-002-SEWER-OUTLET-002

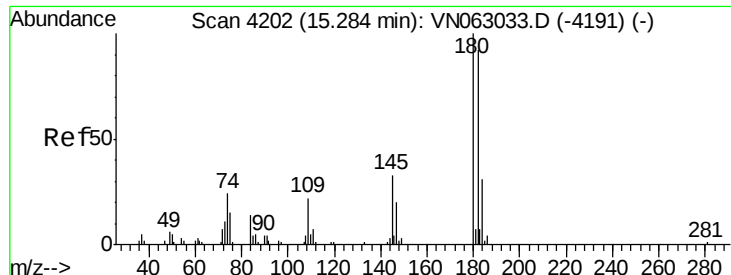
Tot Ion:180 Resp: 521
 Ion Ratio Lower Upper
 180 100
 182 81.8 76.9 115.3
 145 19.0 21.9 32.9#



#91
 Naphthalene
 Concen: 0.440 ug/l
 RT: 15.11 min Scan# 4149
 Delta R.T. 0.01 min
 Lab File: VN063076.D
 Acq: 21 Aug 2020 13:24

Tgt Ion:128 Resp: 1669
 Ion Ratio Lower Upper
 128 100
 127 0.0 11.1 16.7#
 129 0.0 8.4 12.6#

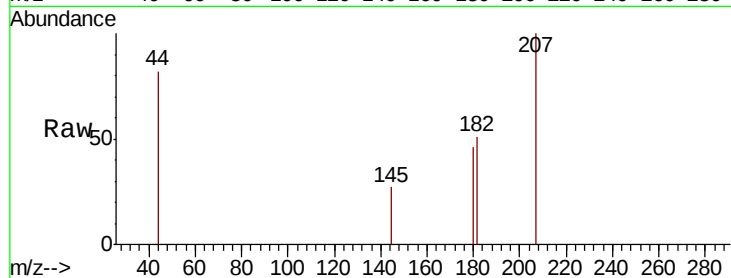




#92
 1,2,3-Trichlorobenzene
 Concen: 0.304 ug/l
 RT: 14.89 min Scan# 4080
 Delta R.T. -0.39 min
 Lab File: VN063076.D
 Acq: 21 Aug 2020 13:24

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

Tot Ion	Ratio	Lower	Upper
180	100		
182	81.8	0.0	188.0
145	19.0	0.0	62.0



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

