

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121219\
 Data File : VN059578.D
 Acq On : 12 Dec 2019 16:39
 Operator : JC/SP
 Sample : K6283-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 GROUNDWATER

Quant Time: Dec 13 08:55:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N120919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 10 01:09:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	249912	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	397952	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	352493	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	145627	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	176751	50.60	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.20%	
35) Dibromofluoromethane	7.57	113	125105	52.68	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	105.36%	
50) Toluene-d8	10.08	98	486806	50.21	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.42%	
62) 4-Bromofluorobenzene	12.40	95	163389	45.53	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	91.06%	

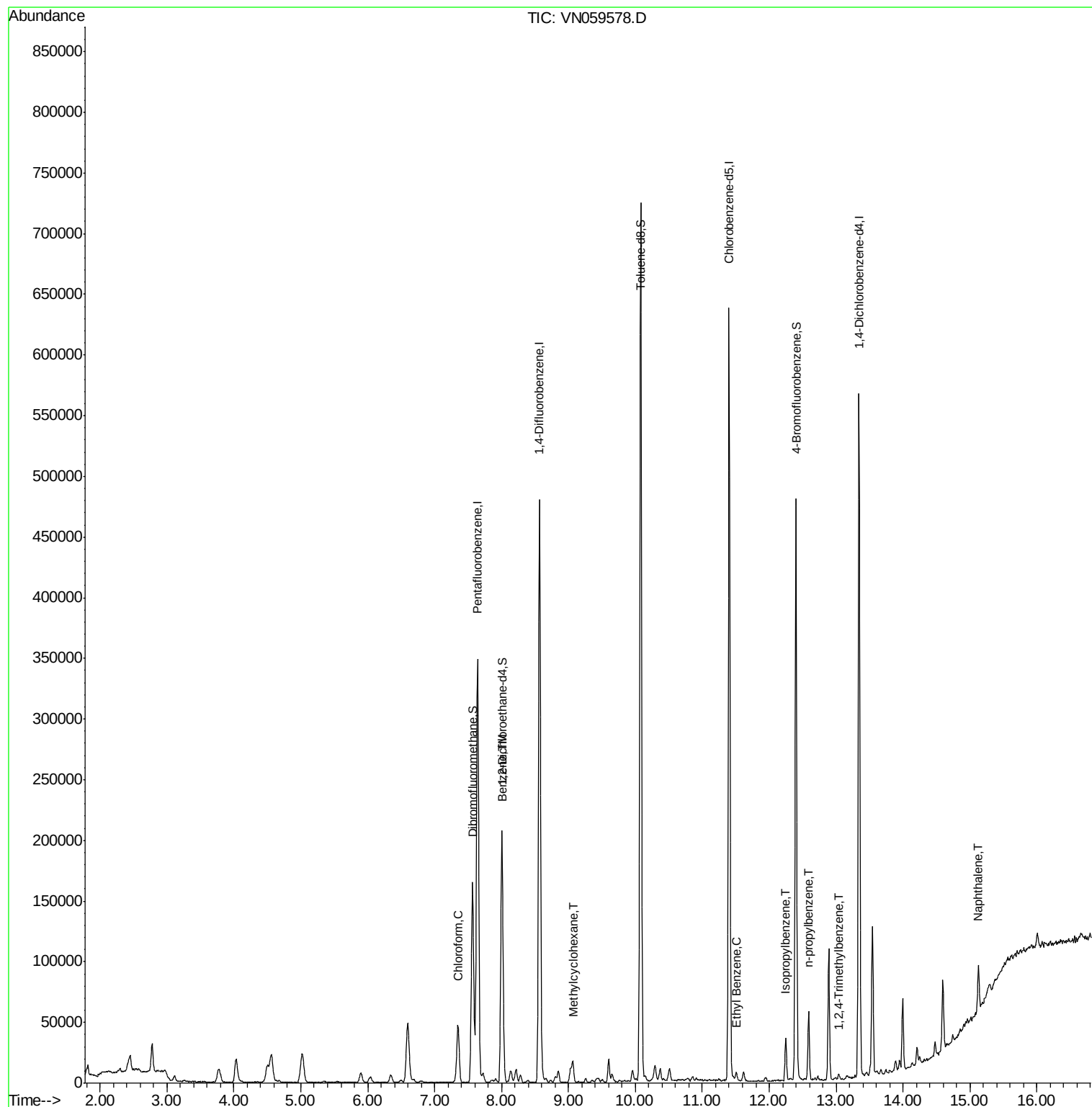
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
30) Chloroform	7.35	83	47805	8.956	ug/l	97
39) Methylcyclohexane	9.06	83	7895	1.724	ug/l	95
40) Benzene	8.02	78	12356	1.059	ug/l	95
67) Ethyl Benzene	11.51	91	5252	0.395	ug/l	95
73) Isopropylbenzene	12.25	105	22271	2.039	ug/l	98
78) n-propylbenzene	12.59	91	45439	3.385	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	3468	0.375	ug/l	82
95) Naphthalene	15.13	128	29345	3.088	ug/l	98

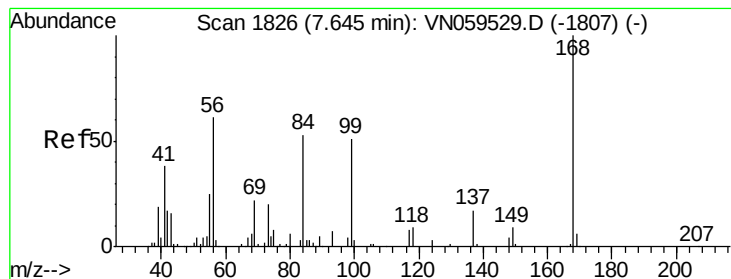
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_N
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GROUNDWATER

Quant Time: Dec 13 08:55:37 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N120919W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 10 01:09:52 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

Instrument :

MSVOA_N

ClientSampleId :

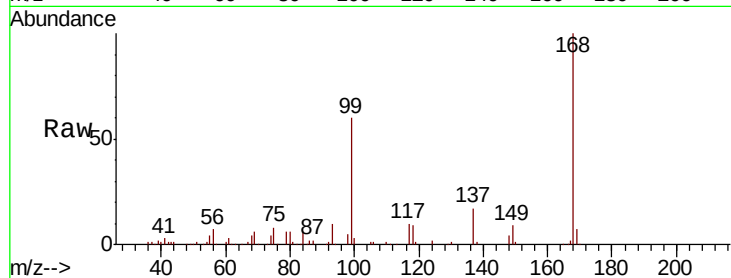
GROUNDWATER

Tot Ion:168 Resp: 249912

Ion Ratio Lower Upper

168 100

99 60.1 46.6 70.0



Abundance Ion 167.90 (167.60 to 168.60): VN059529.D (-1807) (-)

Ion 98.90 (98.60 to 99.60): VN059529.D (-1807) (-)

7.64

100000

80000

60000

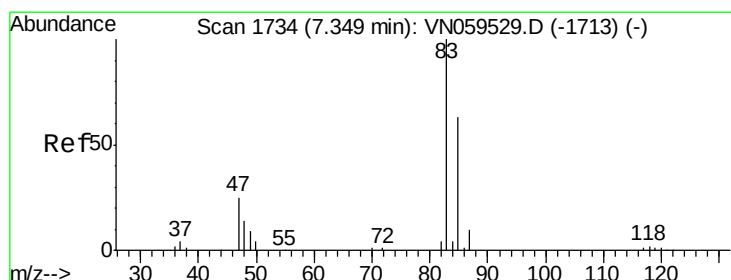
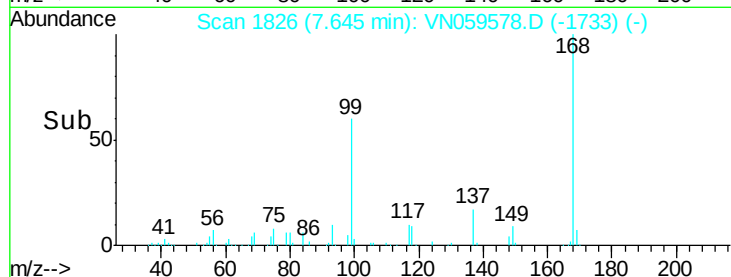
40000

20000

0

7.60 7.70

Time-->



#30

Chloroform

Concen: 8.956 ug/l

RT: 7.35 min Scan# 1734

Delta R.T. -0.00 min

Lab File: VN059578.D

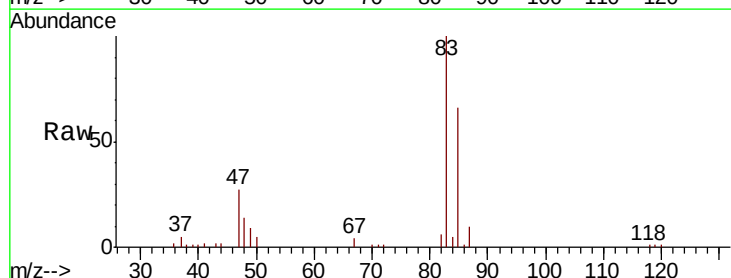
Acq: 12 Dec 2019 16:39

Tgt Ion: 83 Resp: 47805

Ion Ratio Lower Upper

83 100

85 65.8 50.6 75.8



Abundance Ion 82.90 (82.60 to 83.60): VN059529.D (-1713) (-)

Ion 84.90 (84.60 to 85.60): VN059529.D (-1713) (-)

7.35

20000

15000

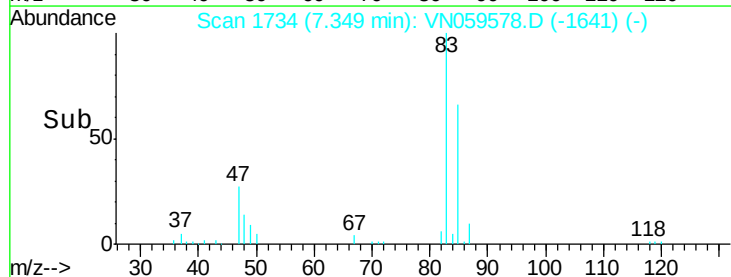
10000

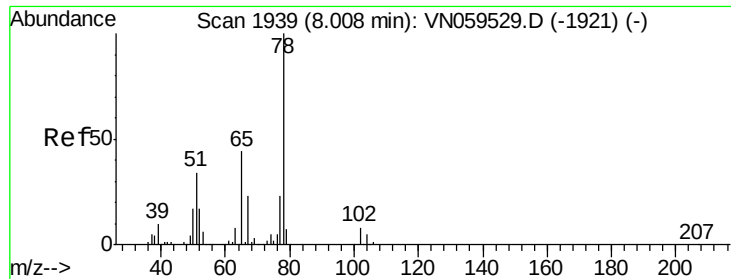
5000

0

7.20 7.30 7.40

Time-->

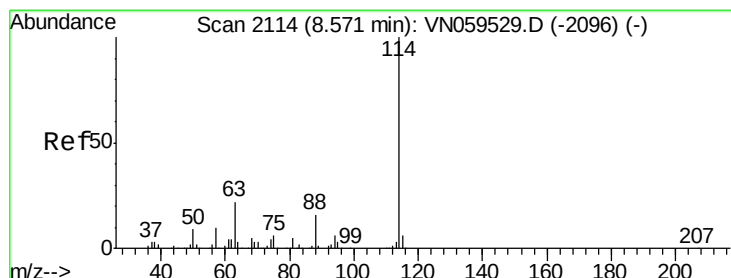
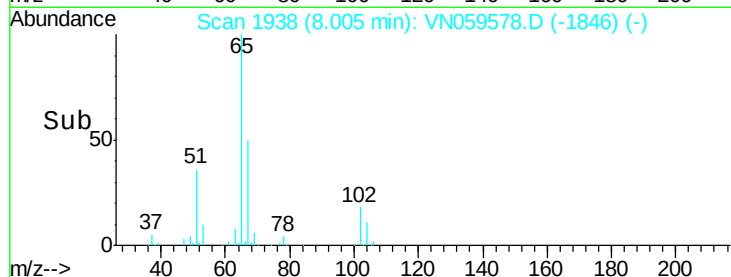
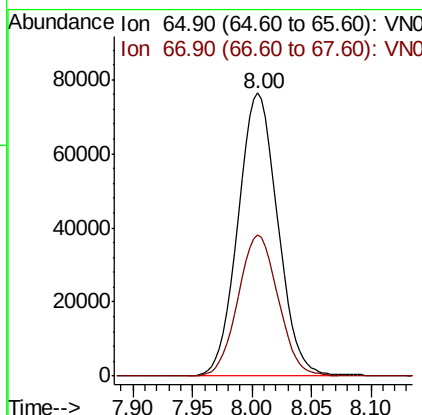
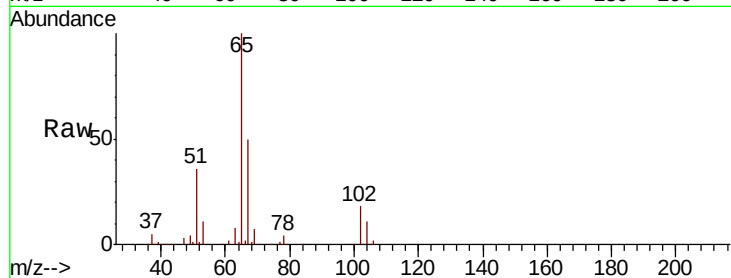




#33
 1,2-Dichloroethane-d4
 Concen: 50.604 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN059578.D
 Acq: 12 Dec 2019 16:39

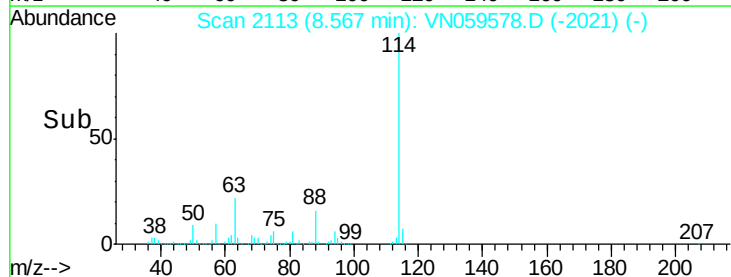
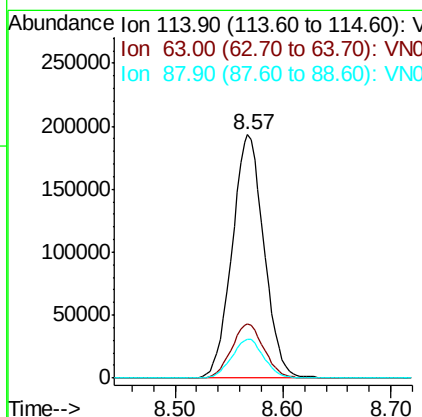
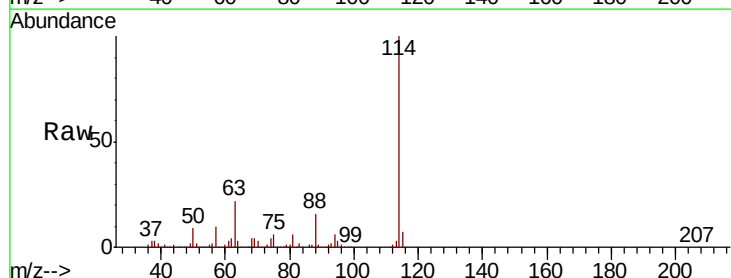
Instrument :
 MSVOA_N
 ClientSampleId :
 GROUNDWATER

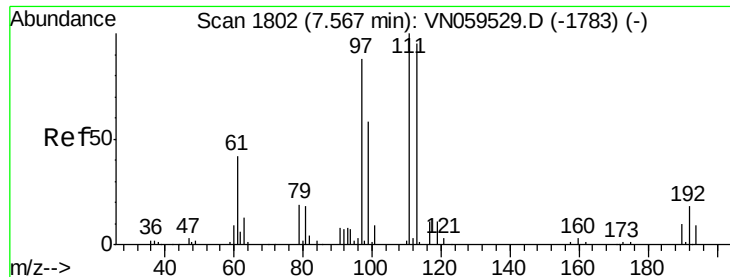
Tot Ion: 65 Resp: 176751
 Ion Ratio Lower Upper
 65 100
 67 50.5 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN059578.D
 Acq: 12 Dec 2019 16:39

Tgt Ion: 114 Resp: 397952
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 45.0
 88 16.1 0.0 32.2





#35

Dibromofluoromethane

Concen: 52.681 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

Instrument :

MSVOA_N

ClientSampleId :

GROUNDWATER

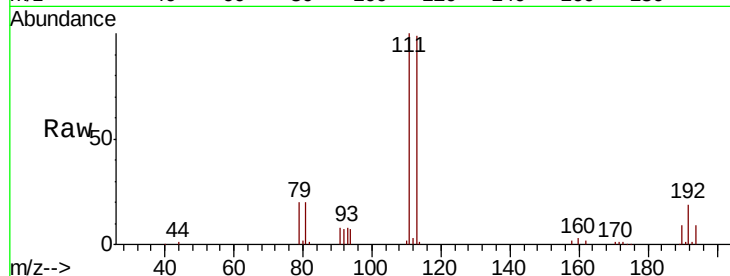
Tot Ion:113 Resp: 125105

Ion Ratio Lower Upper

113 100

111 102.7 82.2 123.4

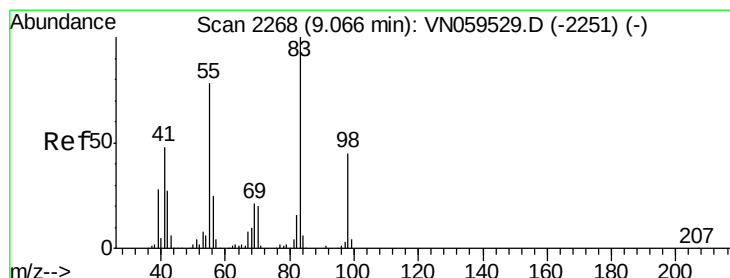
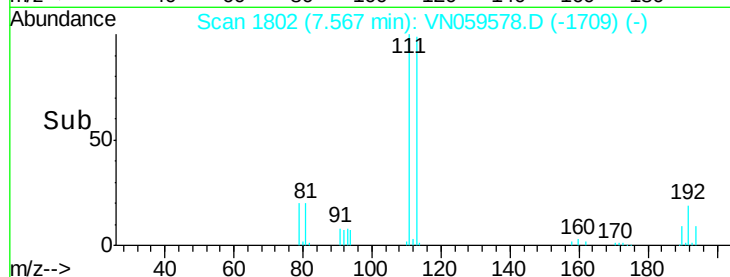
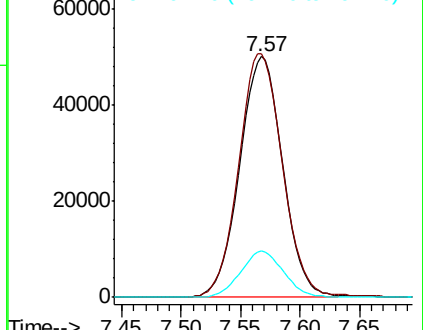
192 19.2 14.8 22.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#39

Methylcyclohexane

Concen: 1.724 ug/l

RT: 9.06 min Scan# 2267

Delta R.T. -0.00 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

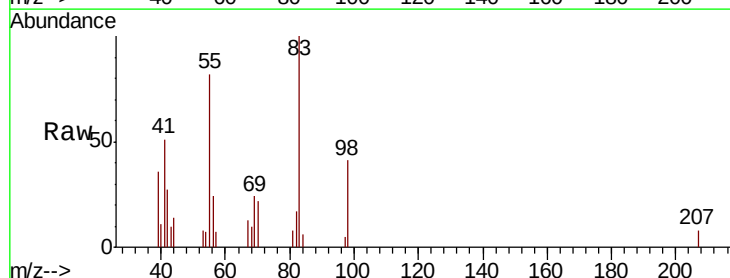
Tgt Ion: 83 Resp: 7895

Ion Ratio Lower Upper

83 100

55 81.9 62.7 94.1

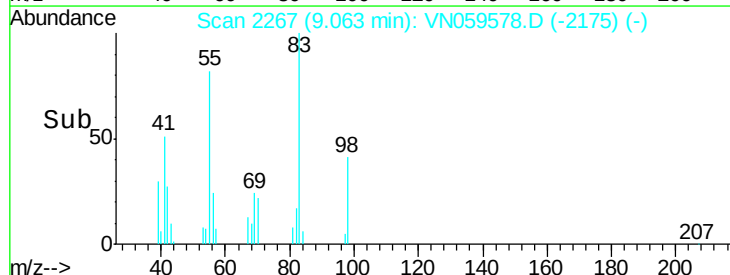
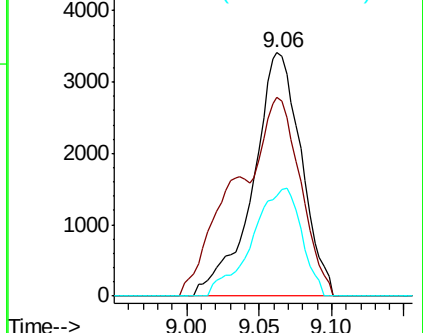
98 41.1 35.7 53.5

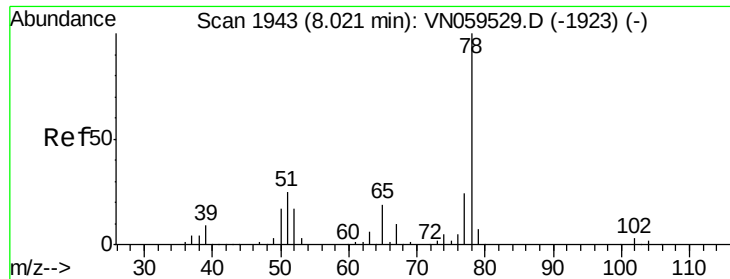


Abundance Ion 83.00 (82.70 to 83.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 98.00 (97.70 to 98.70): VNO





#40

Benzene

Concen: 1.059 ug/l

RT: 8.02 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

Instrument :

MSVOA_N

ClientSampleId :

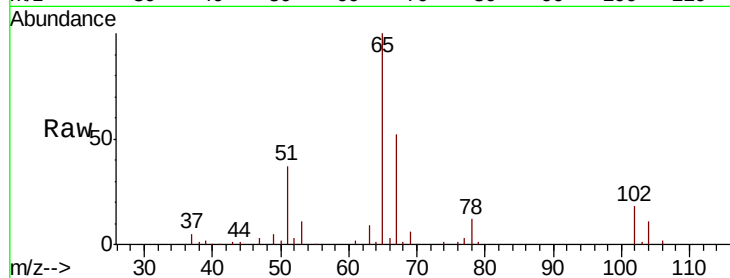
GROUNDWATER

Tot Ion: 78 Resp: 12356

Ion Ratio Lower Upper

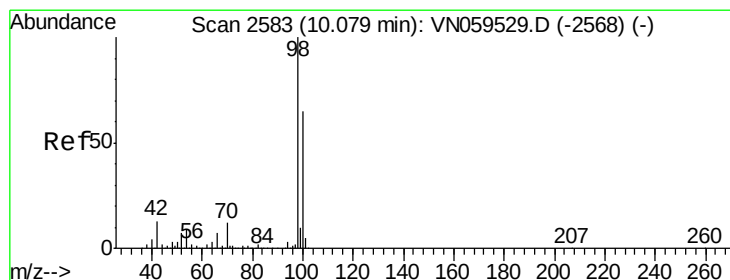
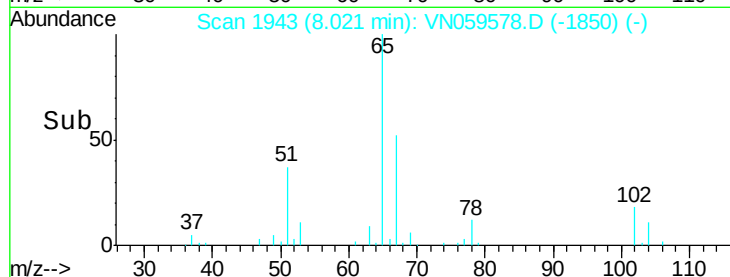
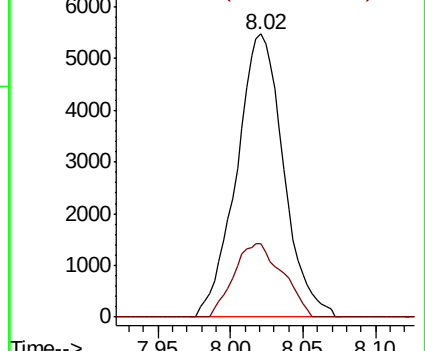
78 100

77 25.9 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#50

Toluene-d8

Concen: 50.212 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN059578.D

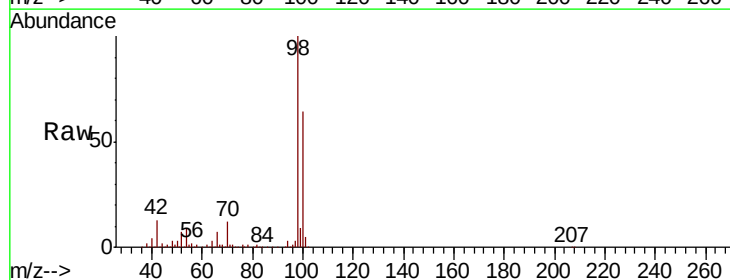
Acq: 12 Dec 2019 16:39

Tgt Ion: 98 Resp: 486806

Ion Ratio Lower Upper

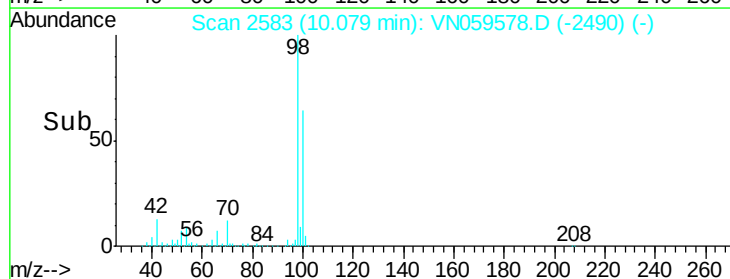
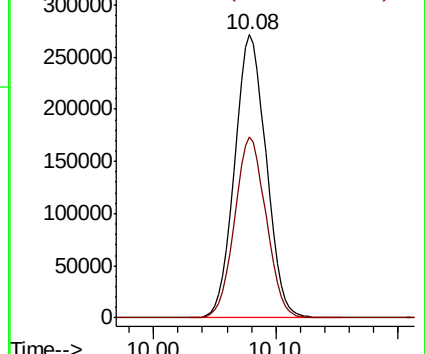
98 100

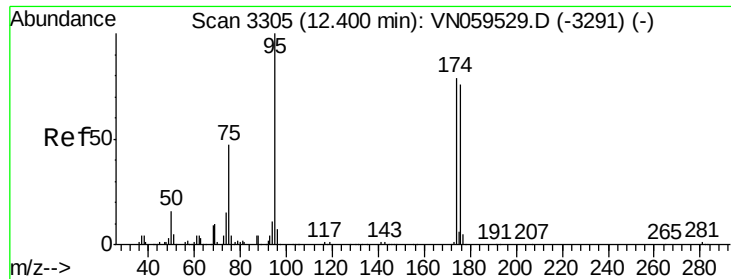
100 63.9 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: 45.528 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

Instrument :

MSVOA_N

ClientSampleId :

GROUNDWATER

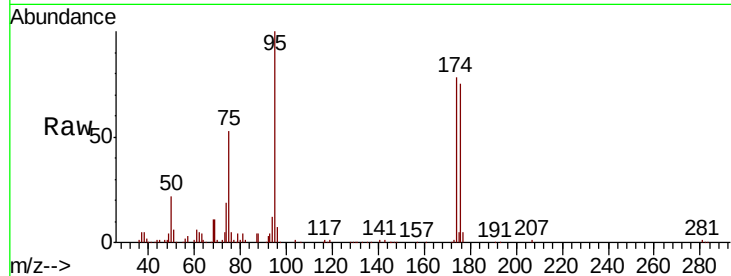
Tot Ion: 95 Resp: 163389

Ion Ratio Lower Upper

95 100

174 76.8 0.0 158.0

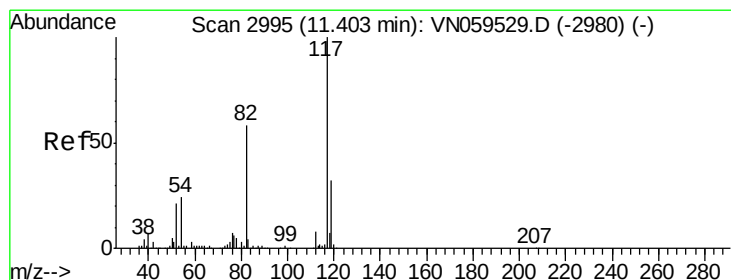
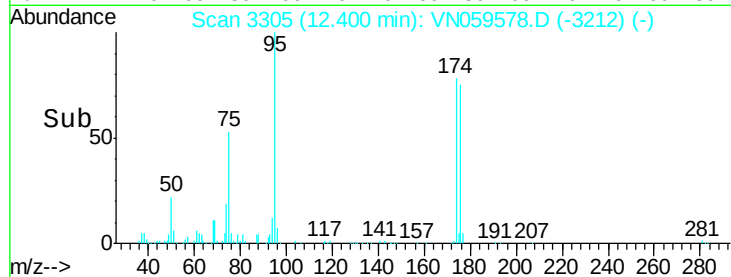
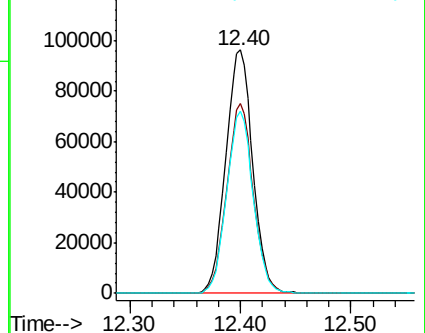
176 73.6 0.0 155.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

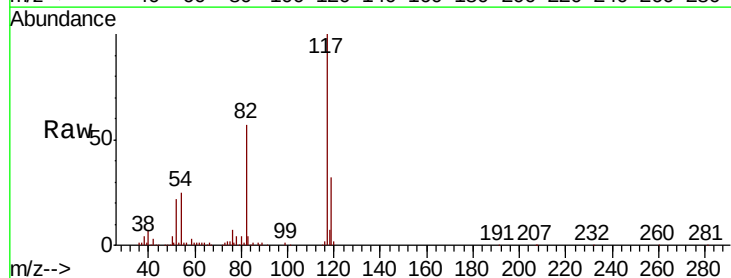
Tgt Ion: 117 Resp: 352493

Ion Ratio Lower Upper

117 100

82 57.0 46.5 69.7

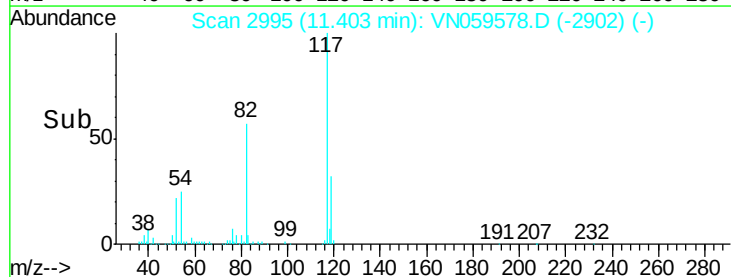
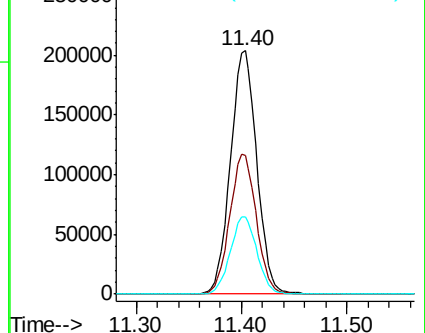
119 31.8 25.2 37.8

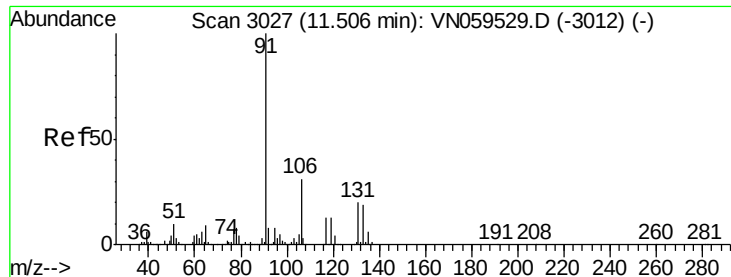


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#67

Ethyl Benzene

Concen: 0.395 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

Instrument :

MSVOA_N

ClientSampleId :

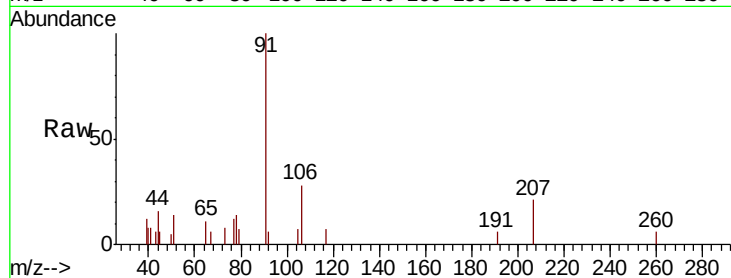
GROUNDWATER

Tot Ion: 91 Resp: 5252

Ion Ratio Lower Upper

91 100

106 27.9 24.5 36.7



Abundance Ion 91.00 (90.70 to 91.70): VN059529.D (-3012) (-)

Ion 106.00 (105.70 to 106.70): VN059529.D (-3012) (-)

11.51

3000

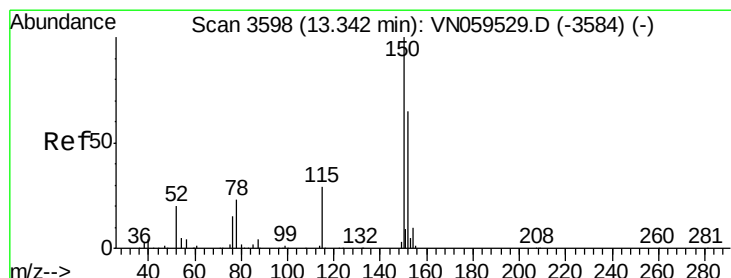
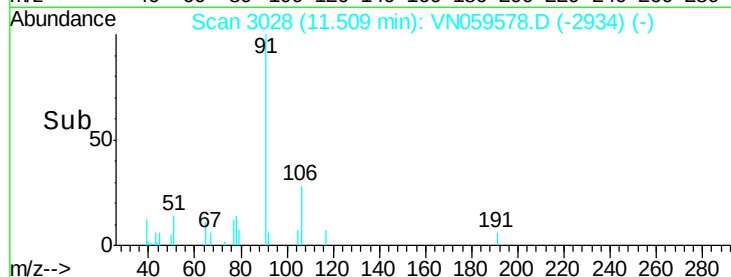
2000

1000

0

Time-->

11.45 11.50 11.55



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

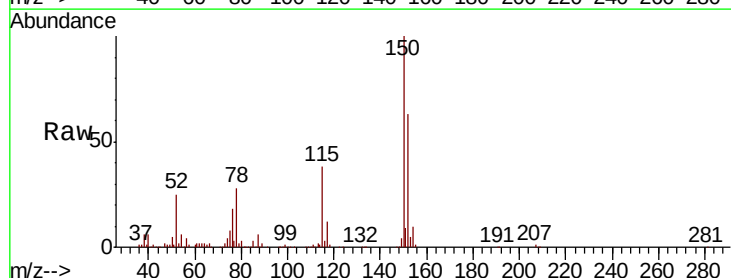
Tgt Ion: 152 Resp: 145627

Ion Ratio Lower Upper

152 100

115 60.8 29.4 88.2

150 157.5 0.0 342.4



Abundance Ion 151.90 (151.60 to 152.60): VN059529.D (-3584) (-)

Ion 114.90 (114.60 to 115.60): VN059529.D (-3584) (-)

Ion 149.90 (149.60 to 150.60): VN059529.D (-3584) (-)

13.34

150000

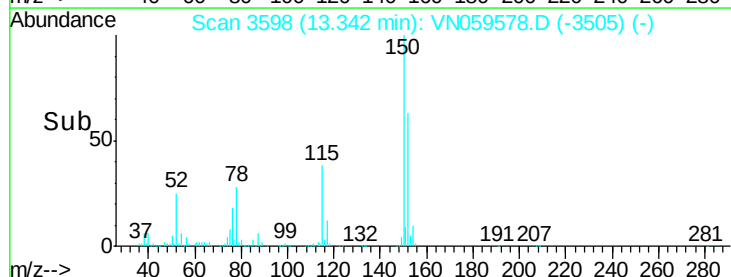
100000

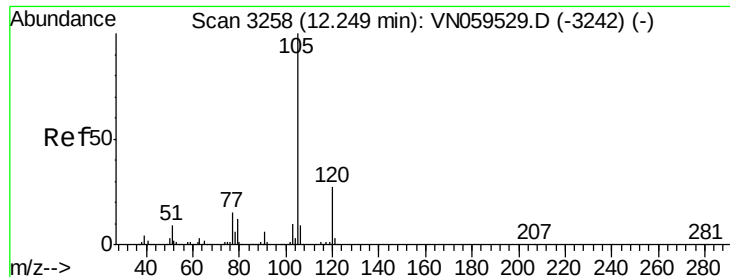
50000

0

Time-->

13.25 13.30 13.35 13.40





#73

Isopropylbenzene

Concen: 2.039 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

Instrument :

MSVOA_N

ClientSampleId :

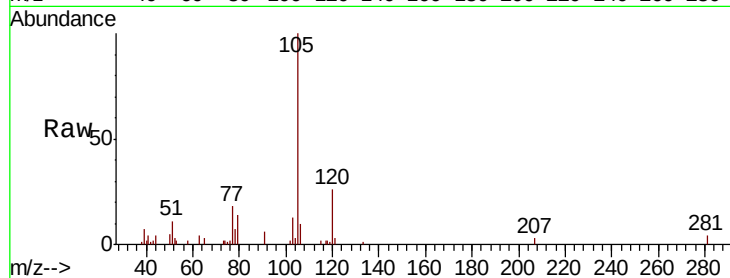
GROUNDWATER

Tot Ion: 105 Resp: 22271

Ion Ratio Lower Upper

105 100

120 25.3 13.2 39.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

15000

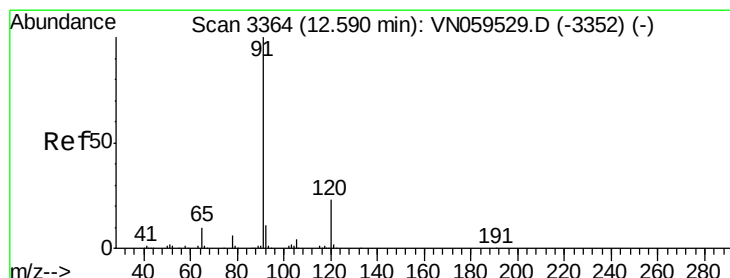
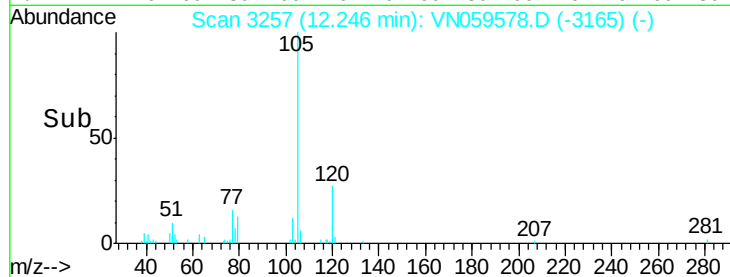
10000

5000

0

Time-->

12.20 12.25 12.30



#78

n-propylbenzene

Concen: 3.385 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN059578.D

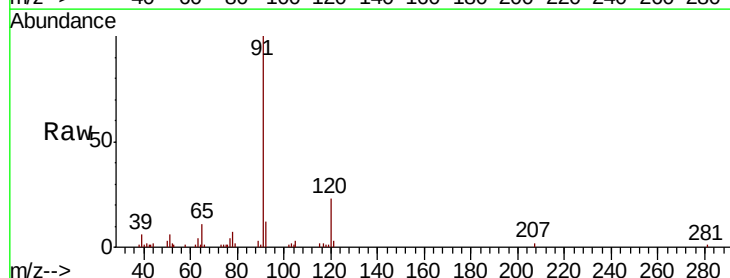
Acq: 12 Dec 2019 16:39

Tgt Ion: 91 Resp: 45439

Ion Ratio Lower Upper

91 100

120 21.2 11.4 34.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V

12.59

30000

25000

20000

15000

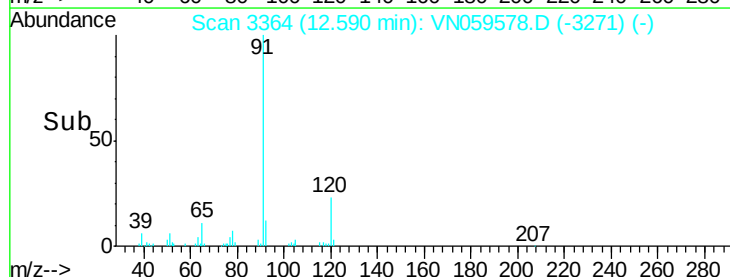
10000

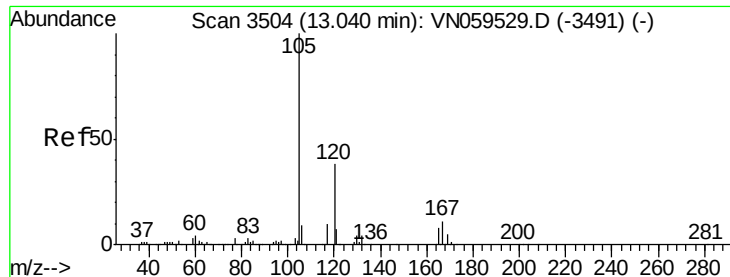
5000

0

Time-->

12.50 12.55 12.60 12.65





#84

1,2,4-Trimethylbenzene

Concen: 0.375 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

Instrument :

MSVOA_N

ClientSampleId :

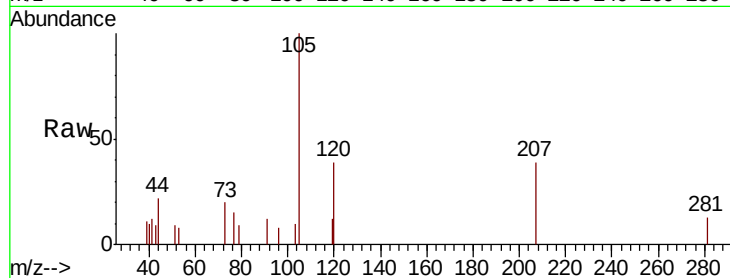
GROUNDWATER

Tot Ion:105 Resp: 3468

Ion Ratio Lower Upper

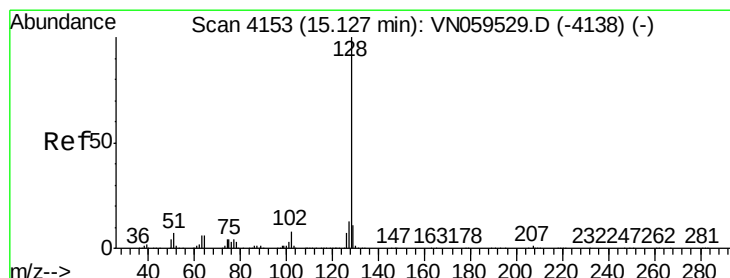
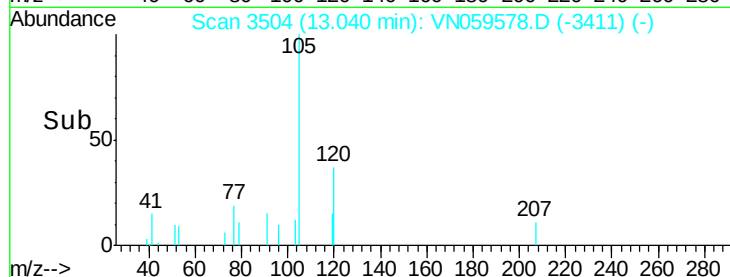
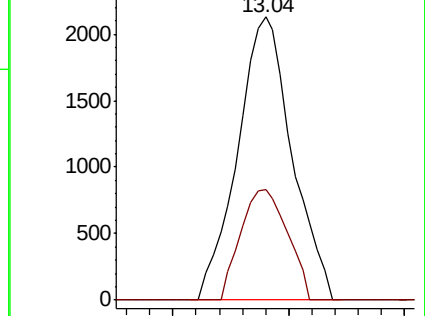
105 100

120 33.6 22.8 68.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 3.088 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. 0.00 min

Lab File: VN059578.D

Acq: 12 Dec 2019 16:39

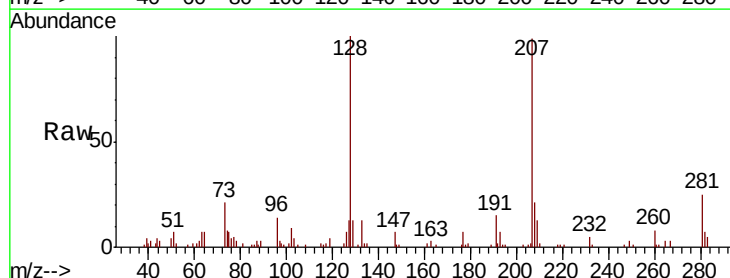
Tgt Ion:128 Resp: 29345

Ion Ratio Lower Upper

128 100

127 12.4 10.2 15.4

129 12.2 8.6 13.0



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

