

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032219\
 Data File : VN054555.D
 Acq On : 22 Mar 2019 13:58
 Operator : JC/SP
 Sample : K2019-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OUTFALL001-190319

Quant Time: Mar 23 02:30:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	665928	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1025968	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	821495	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	283625	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	456621	55.13	ug/l	0.00
Spiked Amount			Recovery	=	110.26%	
35) Dibromofluoromethane	7.59	113	350526	53.03	ug/l	0.00
Spiked Amount			Recovery	=	106.06%	
50) Toluene-d8	10.09	98	1352337	54.42	ug/l	0.00
Spiked Amount			Recovery	=	108.84%	
62) 4-Bromofluorobenzene	12.40	95	399950	47.30	ug/l	0.00
Spiked Amount			Recovery	=	94.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	445	0.643	ug/l #	52
16) Acetone	3.83	43	663	0.266	ug/l	88
27) cis-1,2-Dichloroethene	6.82	96	29534	3.775	ug/l	97
31) Cyclohexane	7.66	56	13143	Below Cal	#	24
36) 1,1-Dichloropropene	7.66	75	48064	5.010	ug/l #	48
38) Carbon Tetrachloride	7.66	117	60188	6.456	ug/l #	16
51) 4-Methyl-2-Pentanone	9.99	43	2220	0.348	ug/l #	64
53) t-1,3-Dichloropropene	10.11	75	31	2.235	ug/l #	42
59) 2-Hexanone	10.76	43	2744	0.658	ug/l	96
71) Bromoform	12.40	173	2441	2.785	ug/l #	1
74) N-amyl acetate	12.08	43	2161	0.329	ug/l #	71
76) 1,2,3-Trichloropropane	12.40	75	203012	45.107	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	203012	148.807	ug/l #	11
88) 1,4-Dichlorobenzene	13.36	146	2273	0.249	ug/l #	1
89) n-Butylbenzene	13.61	91	3178	0.224	ug/l	81
93) 1,2,4-Trichlorobenzene	14.91	180	1936	0.427	ug/l	98
94) Hexachlorobutadiene	15.01	225	723	Below Cal		83
95) Naphthalene	15.13	128	9264	0.916	ug/l	96
96) 1,2,3-Trichlorobenzene	15.32	180	2470	0.547	ug/l #	79

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

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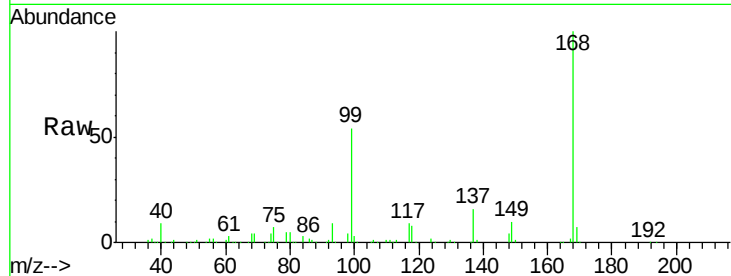
OUTFALL001-190319

Tot Ion:168 Resp: 665928

Ion Ratio Lower Upper

168 100

99 53.9 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

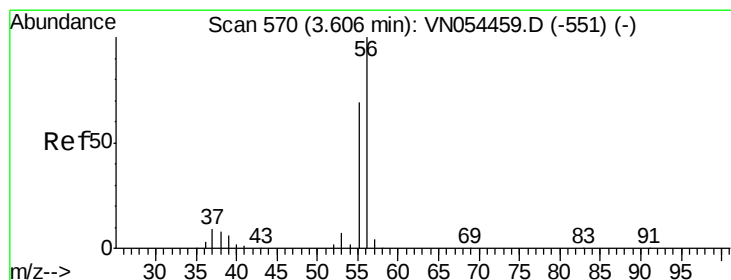
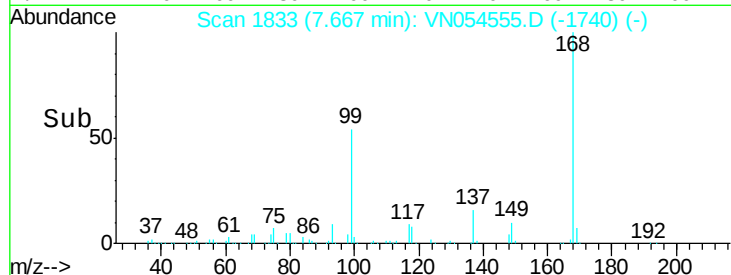
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 0.643 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN054555.D

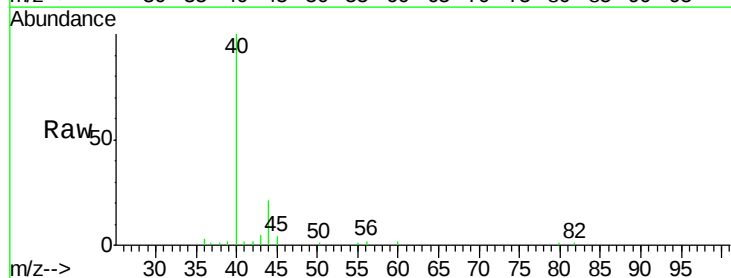
Acq: 22 Mar 2019 13:58

Tgt Ion: 56 Resp: 445

Ion Ratio Lower Upper

56 100

55 31.2 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.61

500

400

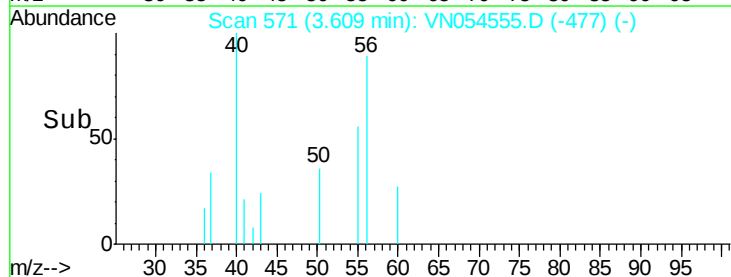
300

200

100

0

Time-->





#16

Acetone

Concen: 0.266 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN054555.D

Acq: 22 Mar 2019 13:58

Instrument :

MSVOA_N

ClientSampleId :

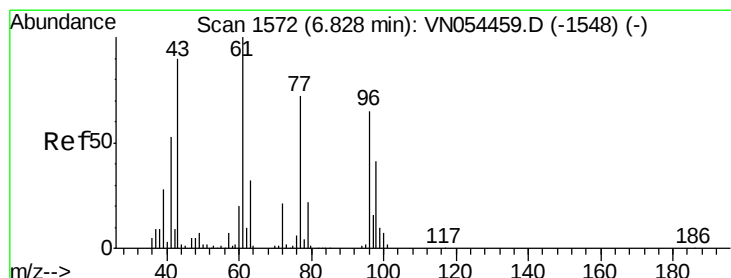
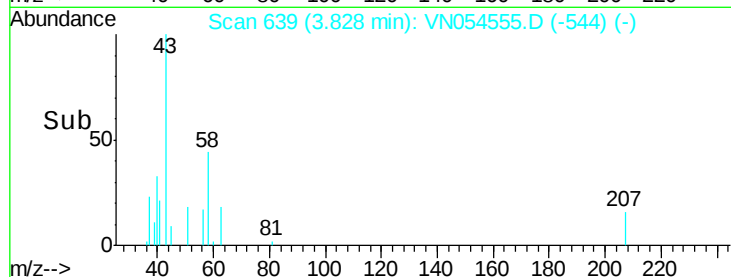
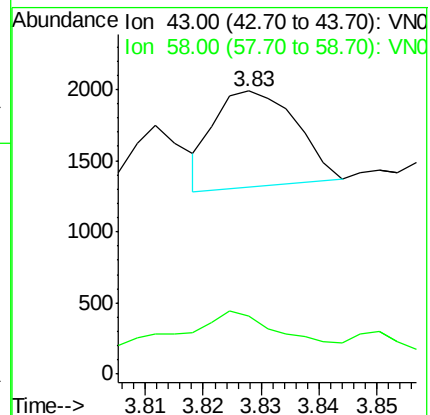
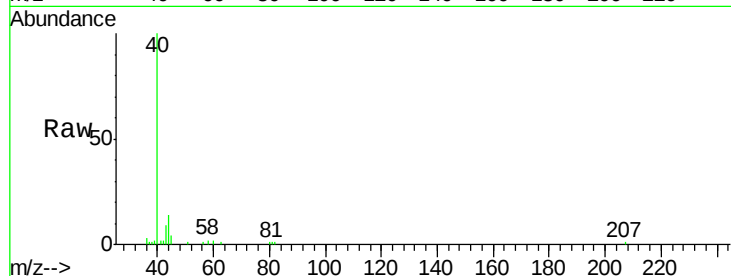
OUTFALL001-190319

Tot Ion: 43 Resp: 663

Ion Ratio Lower Upper

43 100

58 30.1 29.9 44.9



#27

cis-1,2-Dichloroethene

Concen: 3.775 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN054555.D

Acq: 22 Mar 2019 13:58

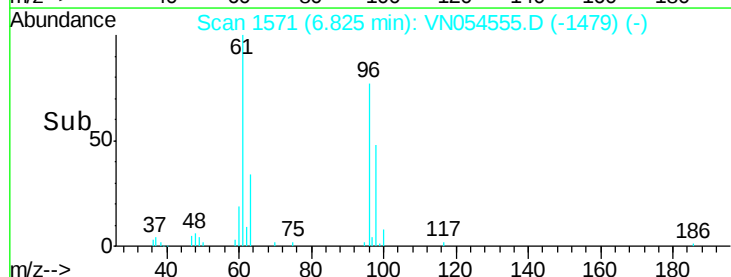
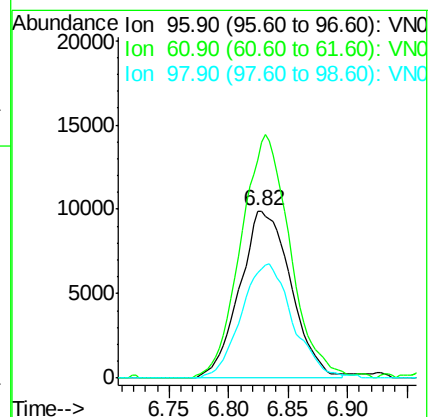
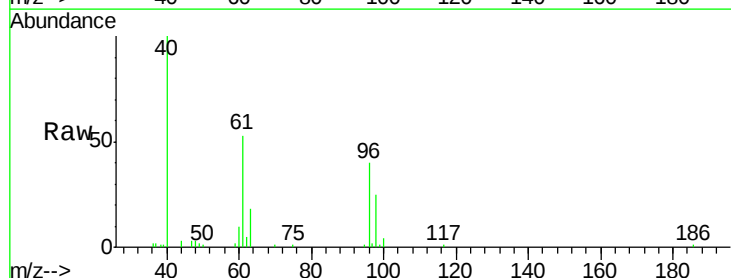
Tgt Ion: 96 Resp: 29534

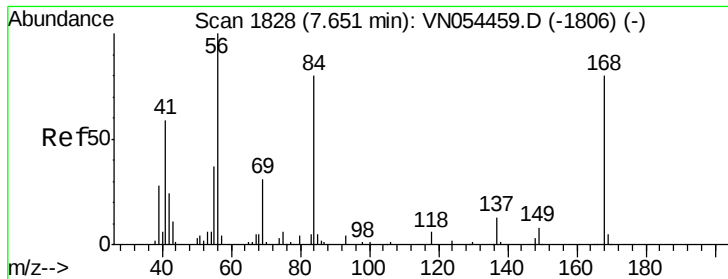
Ion Ratio Lower Upper

96 100

61 140.0 0.0 273.0

98 68.7 0.0 130.6





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054555.D

Acq: 22 Mar 2019 13:58

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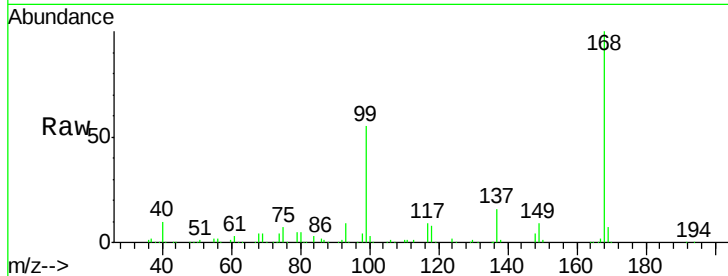
Tot Ion: 56 Resp: 13143

Ion Ratio Lower Upper

56 100

69 154.7 27.8 41.6#

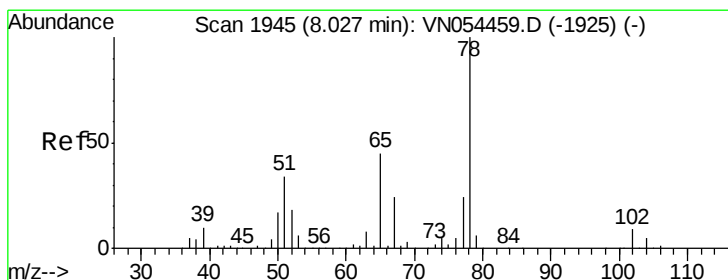
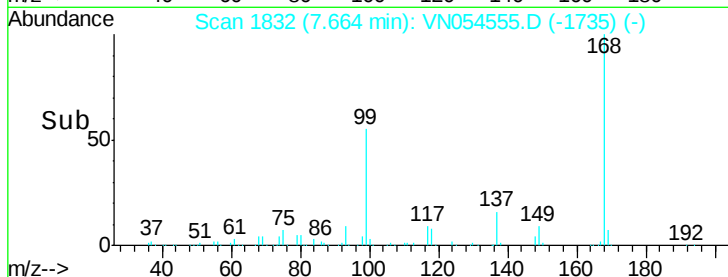
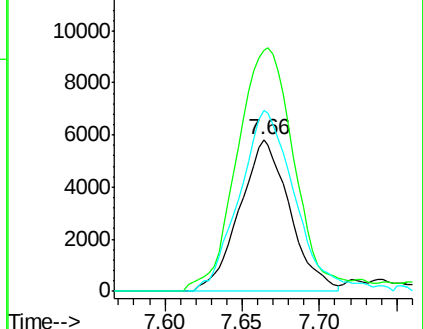
84 118.9 74.6 111.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 55.127 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN054555.D

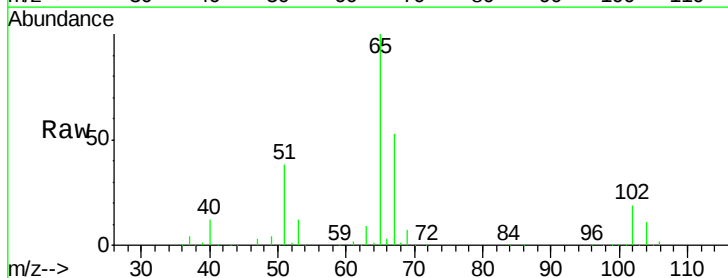
Acq: 22 Mar 2019 13:58

Tgt Ion: 65 Resp: 456621

Ion Ratio Lower Upper

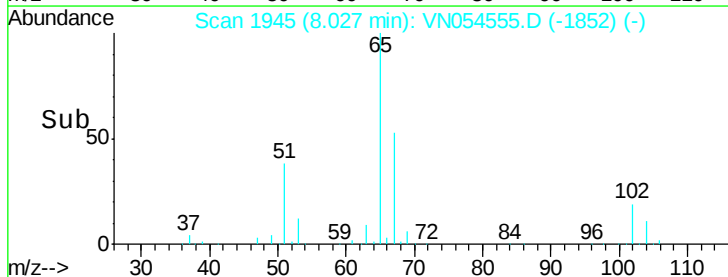
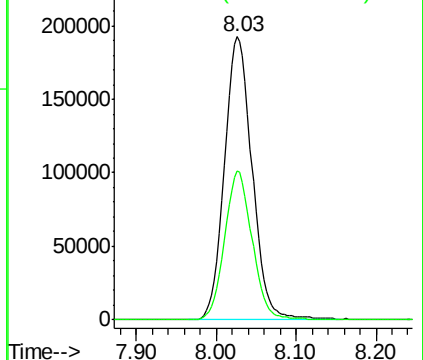
65 100

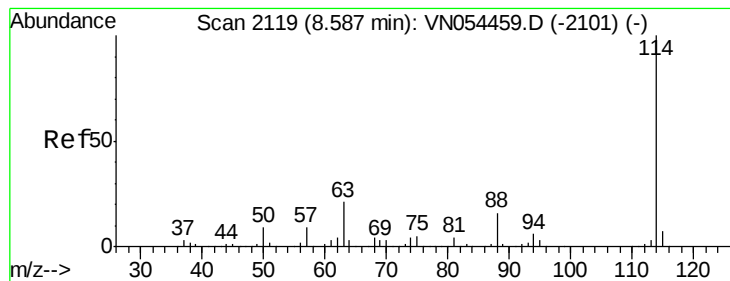
67 52.2 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN054555.D

Acq: 22 Mar 2019 13:58

Instrument :

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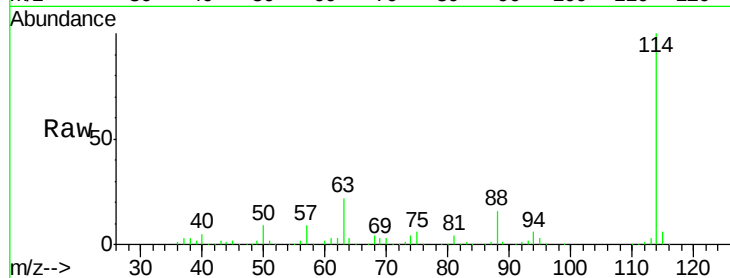
Tot Ion:114 Resp: 1025968

Ion Ratio Lower Upper

114 100

63 21.5 0.0 35.2

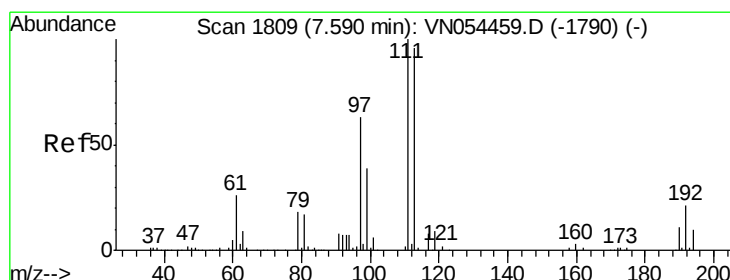
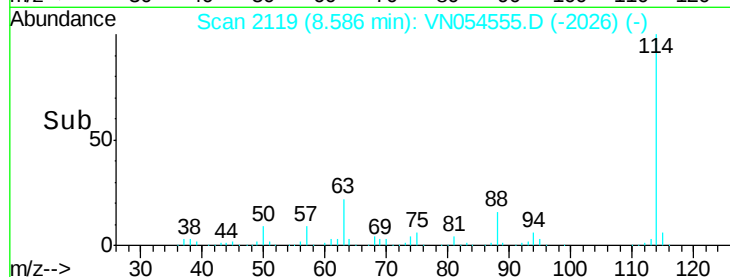
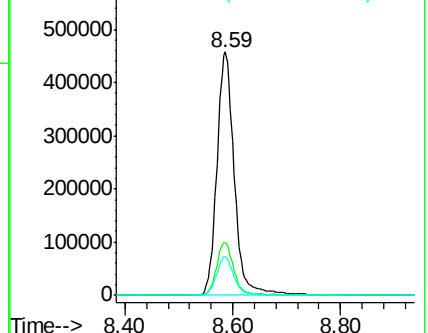
88 16.1 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 53.031 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054555.D

Acq: 22 Mar 2019 13:58

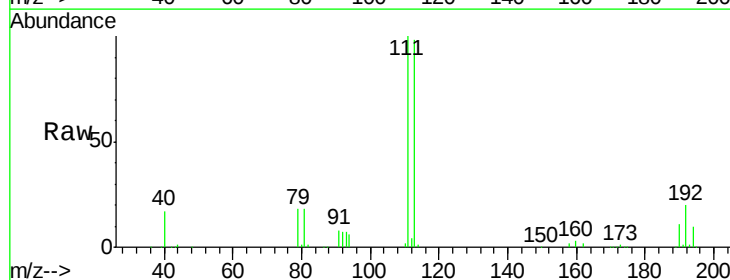
Tgt Ion:113 Resp: 350526

Ion Ratio Lower Upper

113 100

111 103.6 82.2 123.4

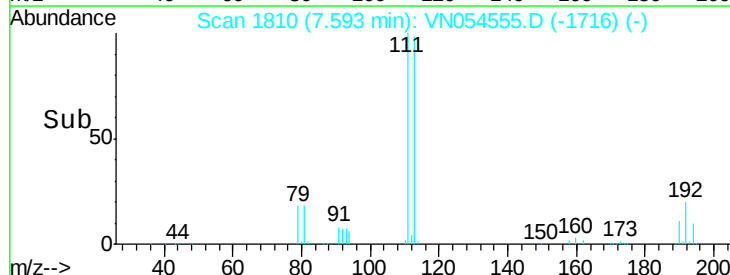
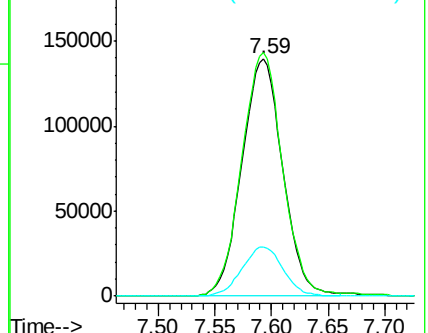
192 21.0 19.2 28.8

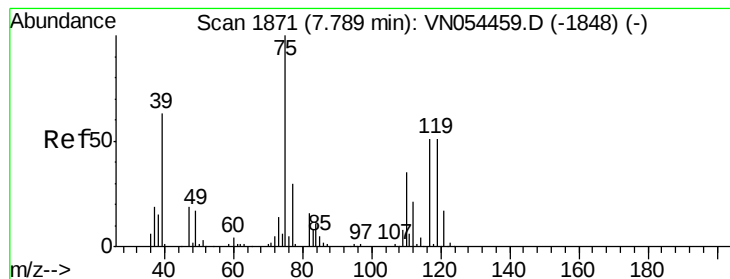


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.010 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054555.D

Acq: 22 Mar 2019 13:58

Instrument :

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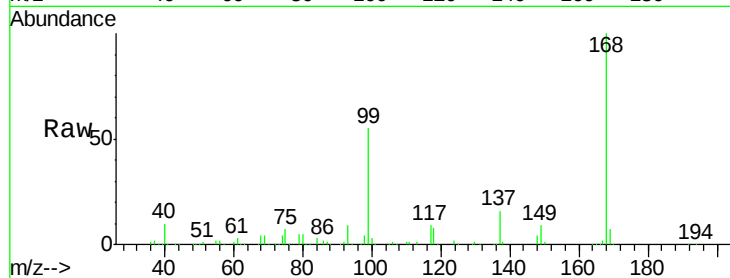
Tot Ion: 75 Resp: 48064

Ion Ratio Lower Upper

75 100

110 9.5 19.1 57.5#

77 0.0 25.0 37.4#

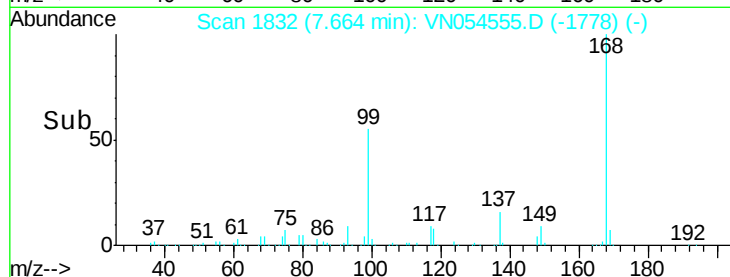


Abundance Ion 74.90 (74.60 to 75.60): VN054459.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN054459.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN054459.D (-1848) (-)

Time-->



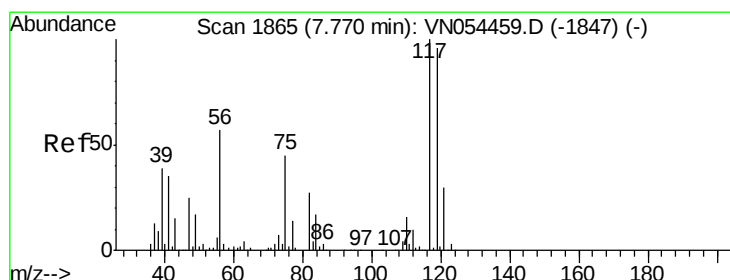
Abundance

Ion 74.90 (74.60 to 75.60): VN054459.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN054459.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN054459.D (-1848) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 6.456 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054555.D

Acq: 22 Mar 2019 13:58

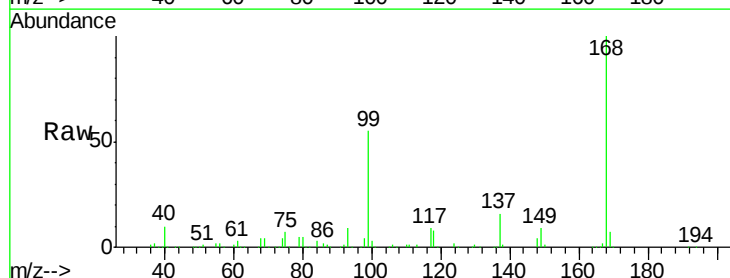
Tgt Ion: 117 Resp: 60188

Ion Ratio Lower Upper

117 100

119 4.9 76.3 114.5#

121 0.0 24.6 36.8#

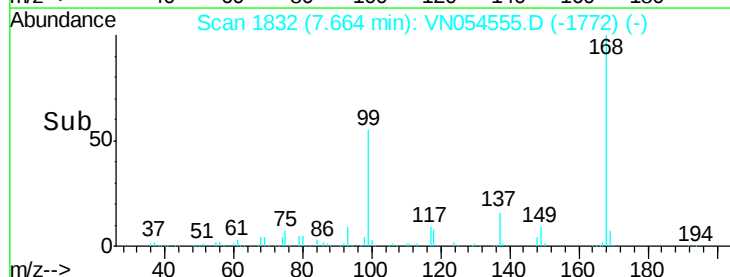


Abundance Ion 116.80 (116.50 to 117.50): VN054459.D (-1847) (-)

Ion 118.80 (118.50 to 119.50): VN054459.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN054459.D (-1847) (-)

Time-->



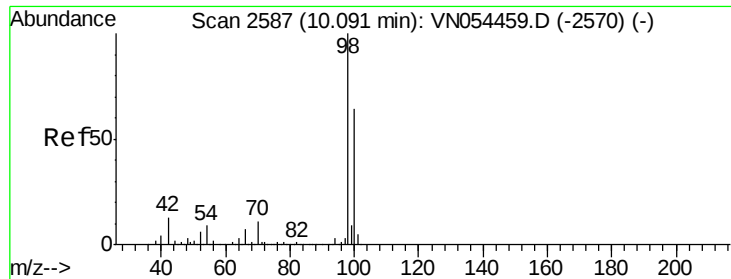
Abundance

Ion 116.80 (116.50 to 117.50): VN054459.D (-1847) (-)

Ion 118.80 (118.50 to 119.50): VN054459.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN054459.D (-1847) (-)

Time-->



#50

Toluene-d8

Concen: 54.423 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054555.D

Acq: 22 Mar 2019 13:58

Instrument :

MSVOA_N

ClientSampleId :

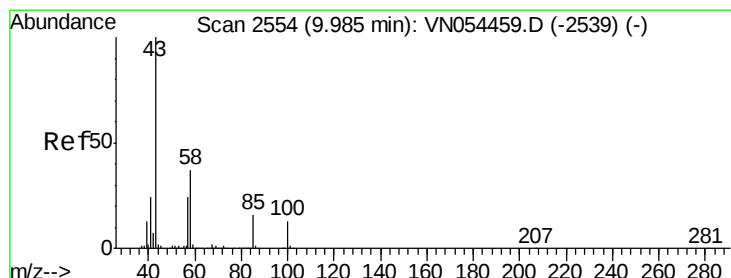
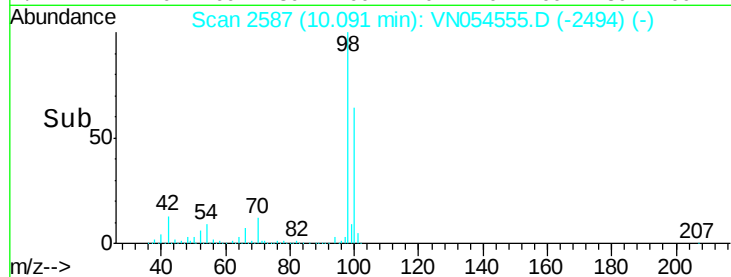
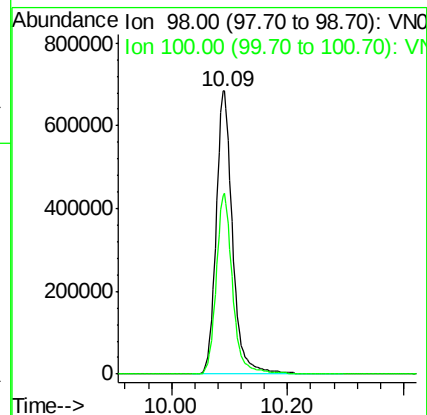
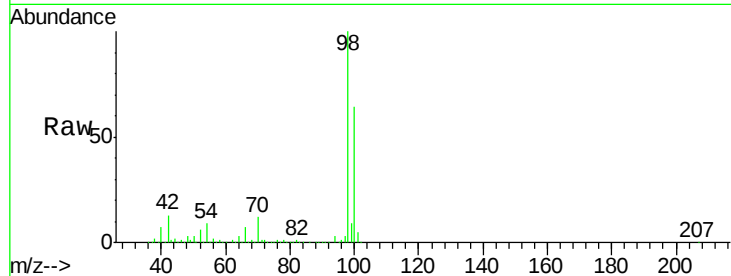
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Tot Ion: 98 Resp: 1352337

Ion Ratio Lower Upper

98 100

100 63.6 51.2 76.8



#51

4-Methyl-2-Pentanone

Concen: 0.348 ug/l

RT: 9.99 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN054555.D

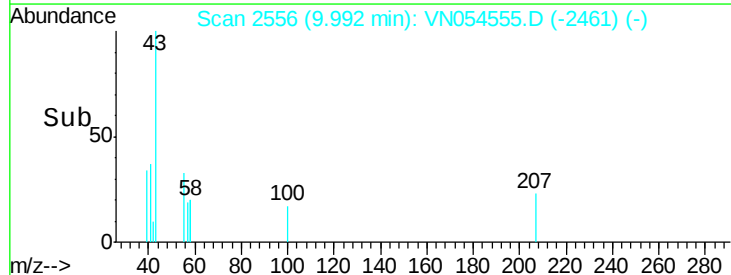
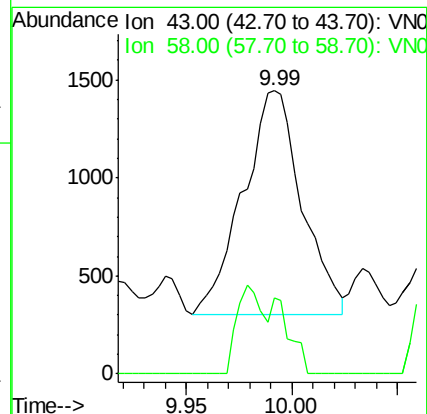
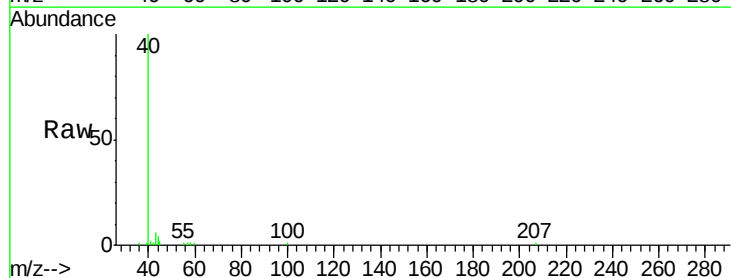
Acq: 22 Mar 2019 13:58

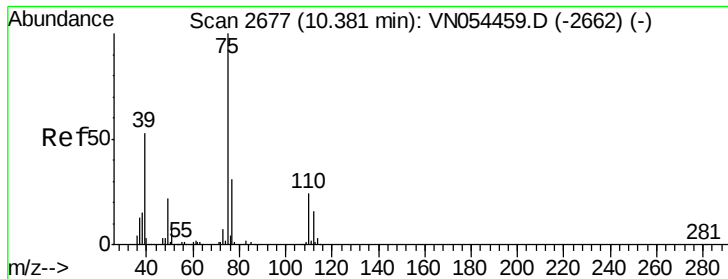
Tgt Ion: 43 Resp: 2220

Ion Ratio Lower Upper

43 100

58 17.7 31.8 47.6#





#53

t-1,3-Dichloropropene

Concen: 2.235 ug/l

RT: 10.11 min Scan# 2594

Delta R.T. -0.27 min

Lab File: VN054555.D

Acq: 22 Mar 2019 13:58

Instrument :

MSVOA_N

ClientSampleId :

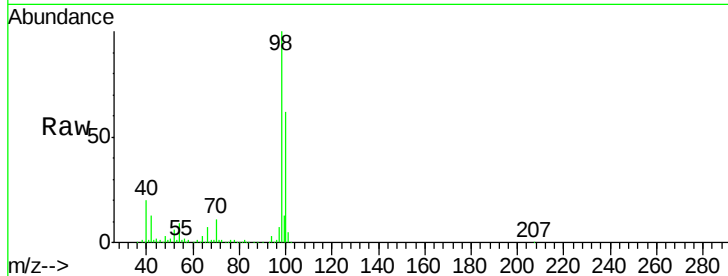
OUTFALL001-190319

Tot Ion: 75 Resp: 31

Ion Ratio Lower Upper

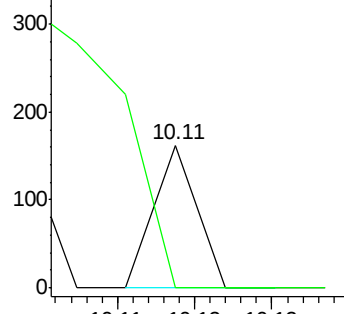
75 100

77 0.0 25.8 38.8#

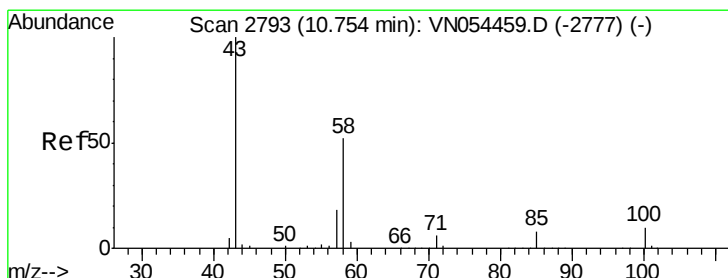
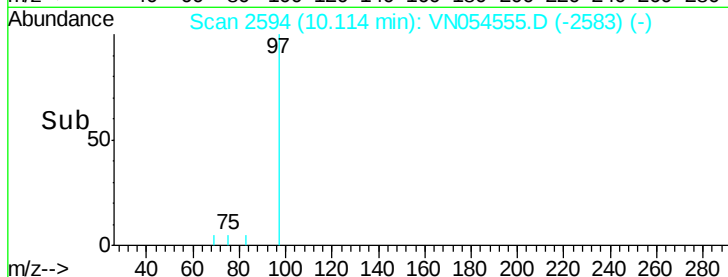


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



Time-->



#59

2-Hexanone

Concen: 0.658 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN054555.D

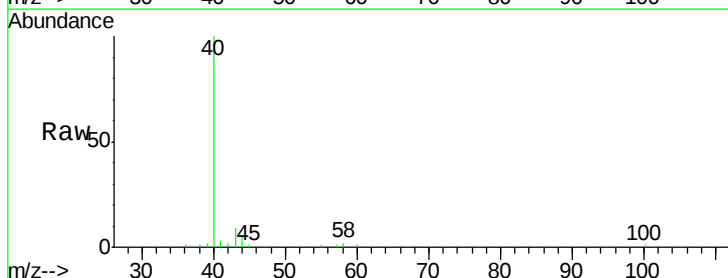
Acq: 22 Mar 2019 13:58

Tgt Ion: 43 Resp: 2744

Ion Ratio Lower Upper

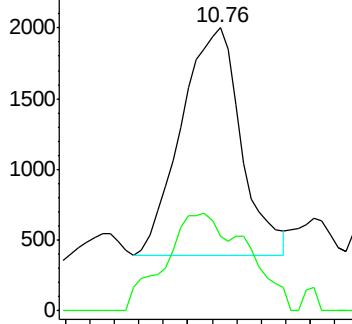
43 100

58 58.6 28.0 83.9

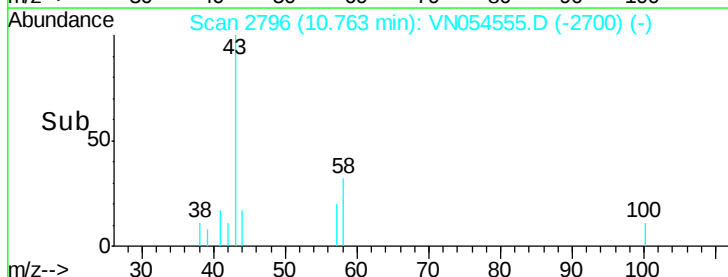


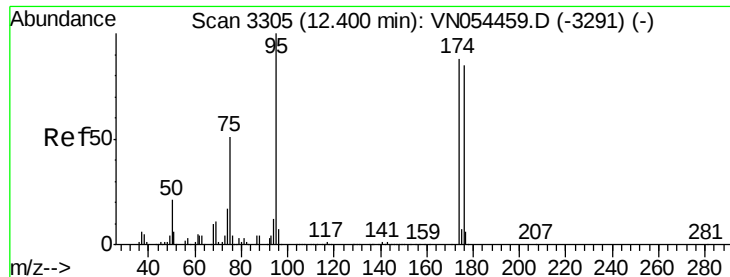
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->





#62

4-Bromofluorobenzene

Concen: 47.300 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054555.D

Acq: 22 Mar 2019 13:58

Instrument :

MSVOA_N

ClientSampleId :

OUTFALL001-190319

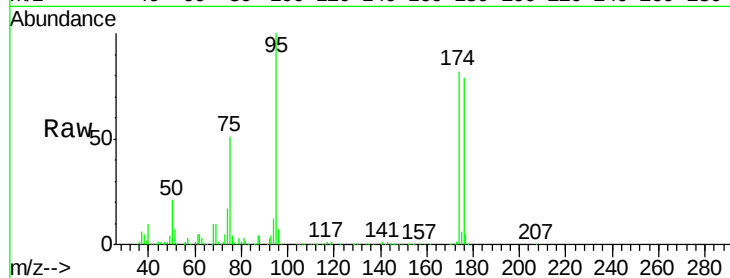
Tot Ion: 95 Resp: 399950

Ion Ratio Lower Upper

95 100

174 83.9 0.0 191.0

176 81.2 0.0 187.4



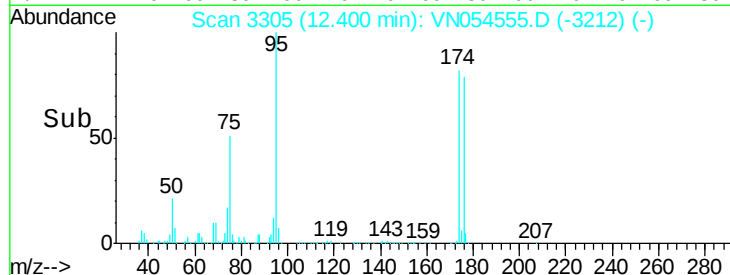
Abundance Ion 94.90 (94.60 to 95.60): VN054459.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN054459.D (-3291) (-)

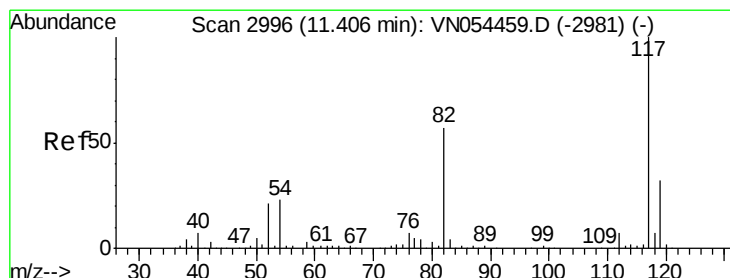
Ion 175.80 (175.50 to 176.50): VN054459.D (-3291) (-)

12.40

Time-->



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN054555.D

Acq: 22 Mar 2019 13:58

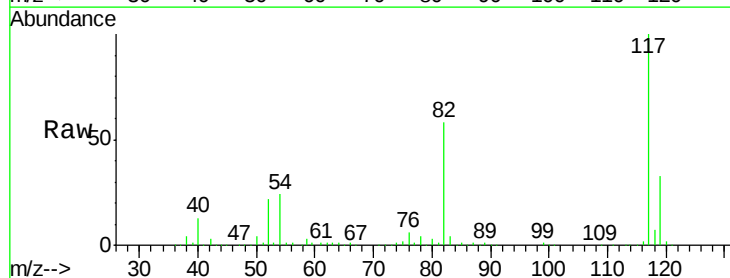
Tgt Ion: 117 Resp: 821495

Ion Ratio Lower Upper

117 100

82 57.8 40.0 60.0

119 33.0 25.8 38.6



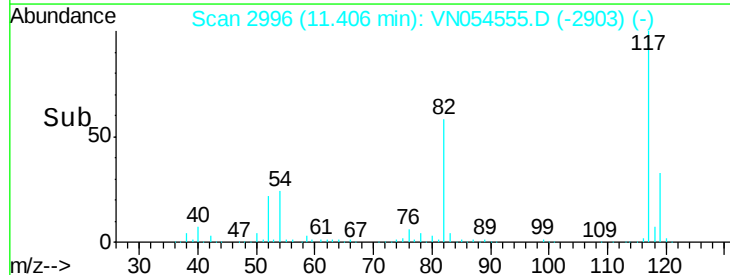
Abundance Ion 116.90 (116.60 to 117.60): VN054459.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN054459.D (-2981) (-)

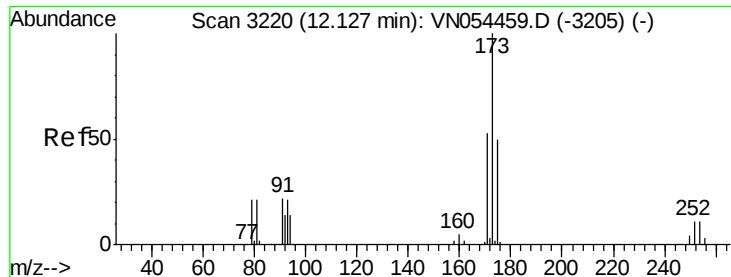
Ion 118.90 (118.60 to 119.60): VN054459.D (-2981) (-)

11.41

Time-->



Time-->



#71

Bromoform

Concen: 2.785 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN054555.D

Acq: 22 Mar 2019 13:58

Instrument :

MSVOA_N

ClientSampleId :

OUTFALL001-190319

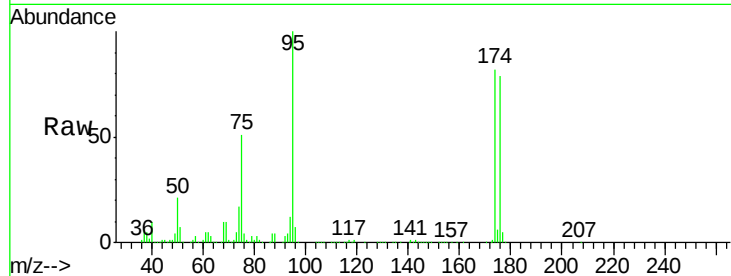
Tot Ion:173 Resp: 2441

Ion Ratio Lower Upper

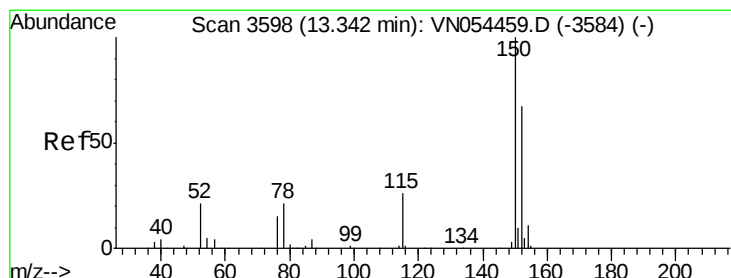
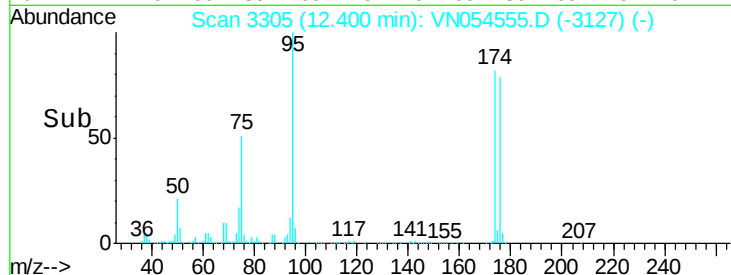
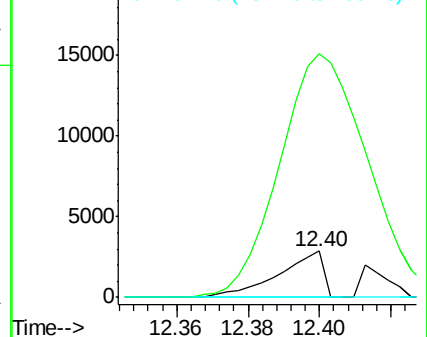
173 100

175 911.2 24.4 73.2#

254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN054555.D

Acq: 22 Mar 2019 13:58

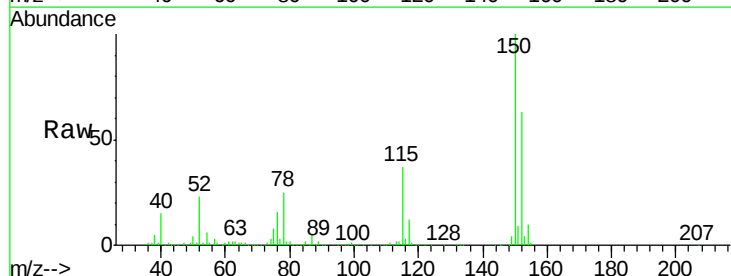
Tgt Ion:152 Resp: 283625

Ion Ratio Lower Upper

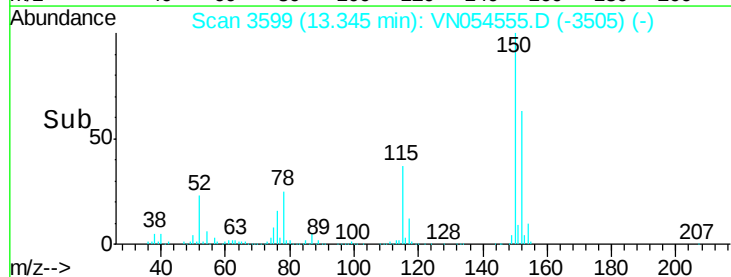
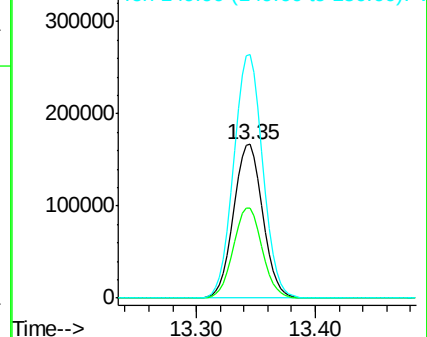
152 100

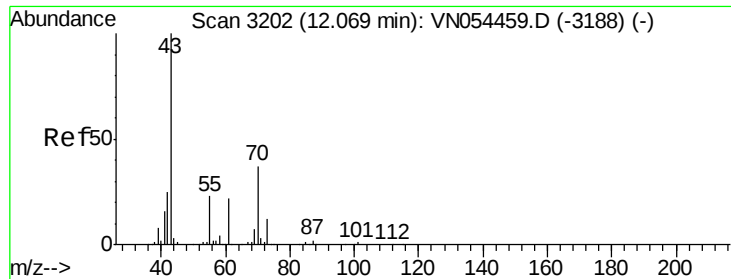
115 57.9 27.2 81.6

150 157.8 0.0 349.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.329 ug/l

RT: 12.08 min Scan# 3204

Delta R.T. 0.01 min

Lab File: VN054555.D

Acq: 22 Mar 2019 13:58

Instrument :

MSVOA_N

ClientSampleId :

OUTFALL001-190319

Tot Ion: 43 Resp: 2161

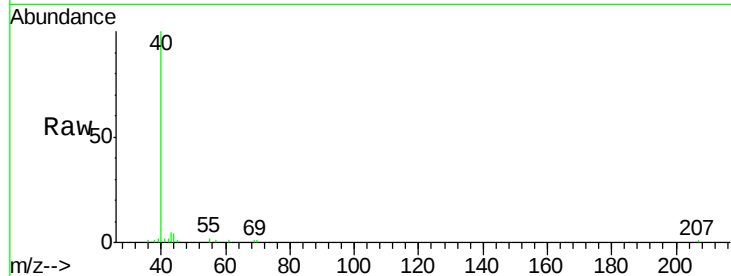
Ion Ratio Lower Upper

43 100

70 22.9 35.4 53.0#

55 15.2 19.8 29.6#

61 8.8 19.8 29.6#

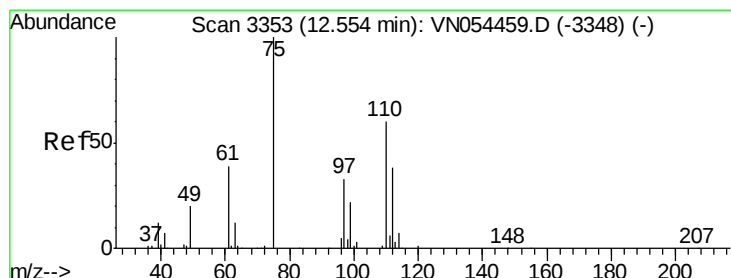
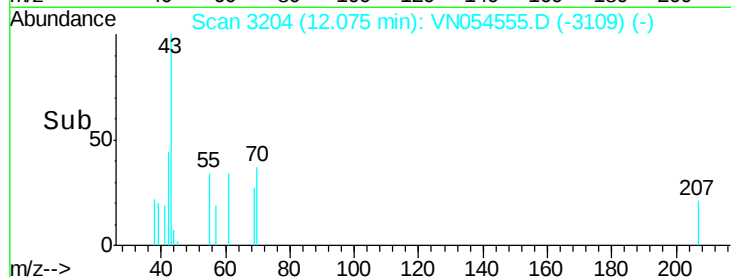
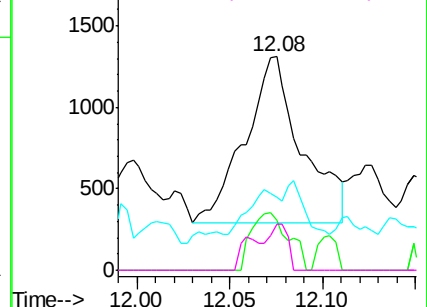


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 45.107 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054555.D

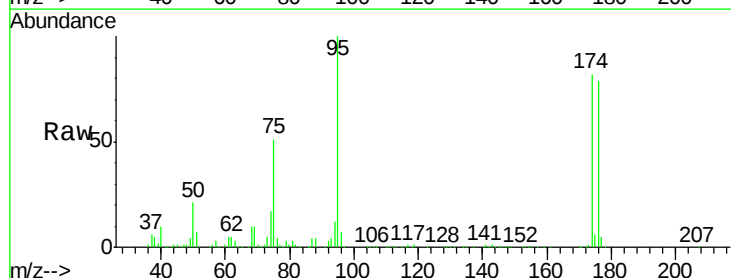
Acq: 22 Mar 2019 13:58

Tgt Ion: 75 Resp: 203012

Ion Ratio Lower Upper

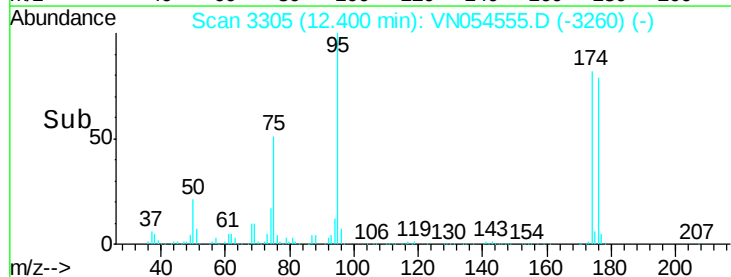
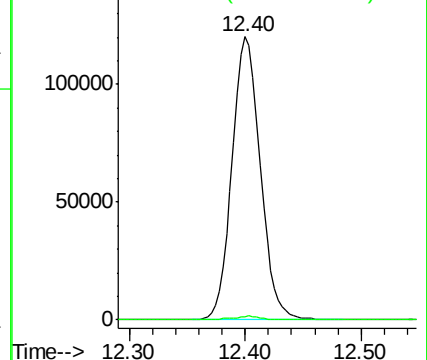
75 100

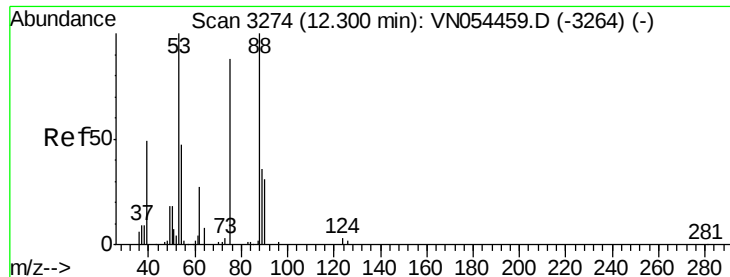
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 148.807 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054555.D

Acq: 22 Mar 2019 13:58

Instrument :

MSVOA_N

ClientSampleId :

OUTFALL001-190319

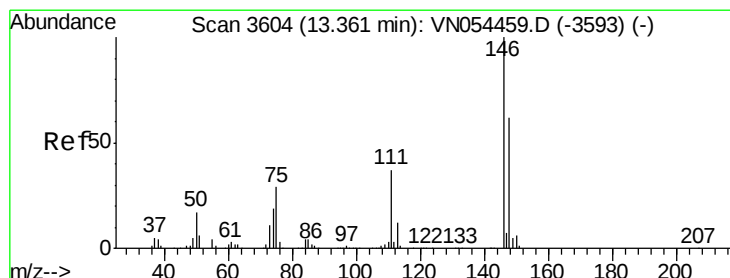
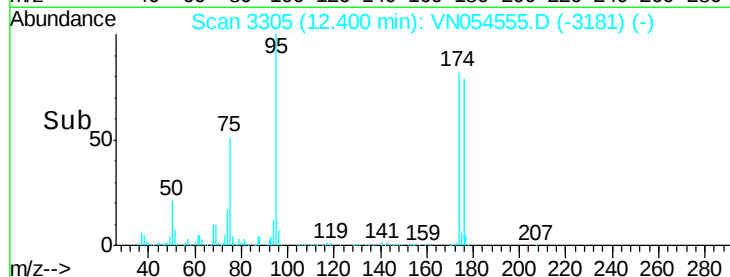
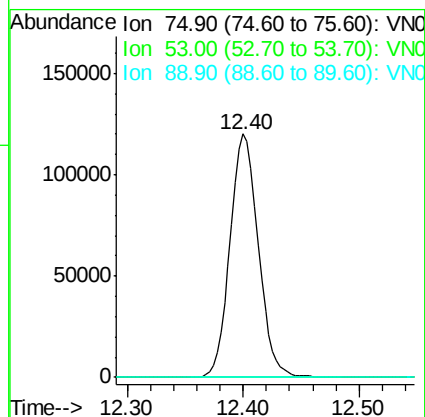
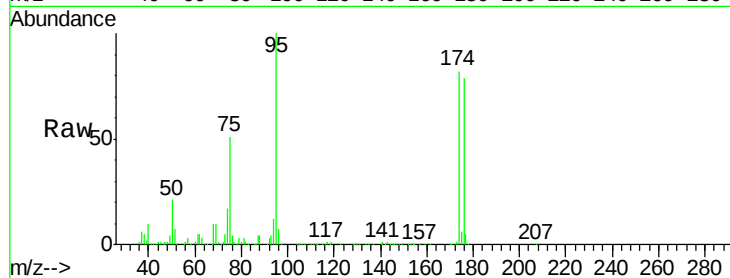
Tot Ion: 75 Resp: 203012

Ion Ratio Lower Upper

75 100

53 0.1 76.2 114.2#

89 0.0 39.2 58.8#



#88

1,4-Dichlorobenzene

Concen: 0.249 ug/l

RT: 13.36 min Scan# 3604

Delta R.T. -0.00 min

Lab File: VN054555.D

Acq: 22 Mar 2019 13:58

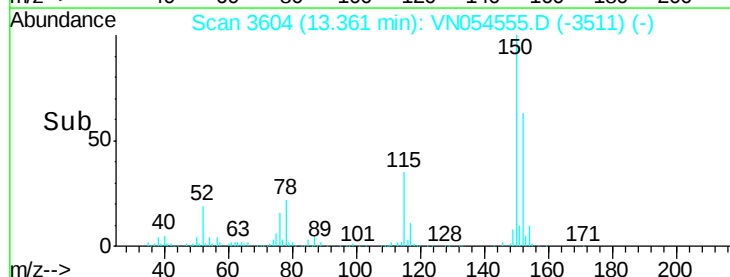
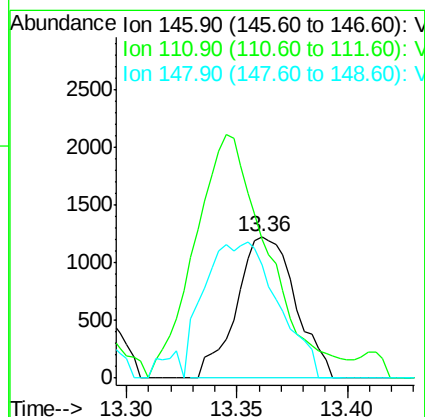
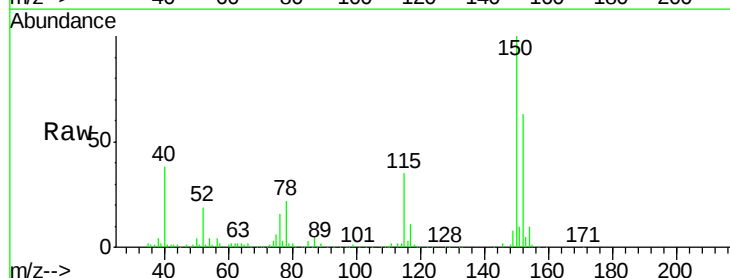
Tgt Ion: 146 Resp: 2273

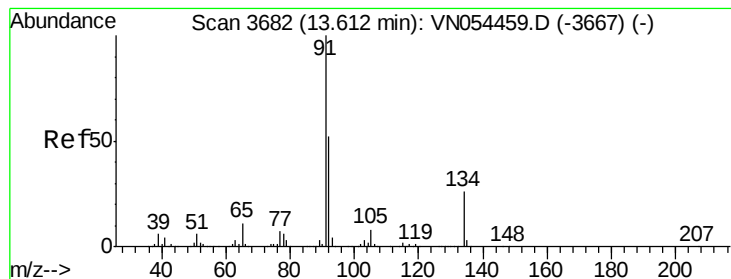
Ion Ratio Lower Upper

146 100

111 215.7 18.1 54.1#

148 122.3 32.0 96.0#





#89

n-Butylbenzene

Concen: 0.224 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. -0.00 min

Lab File: VN054555.D

Acq: 22 Mar 2019 13:58

Instrument :

MSVOA_N

ClientSampleId :

OUTFALL001-190319

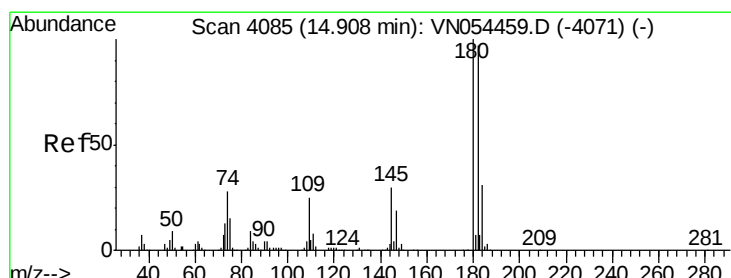
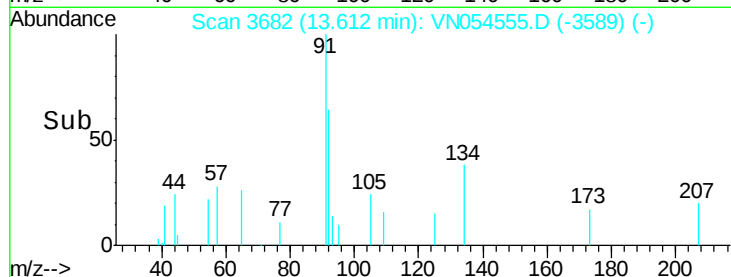
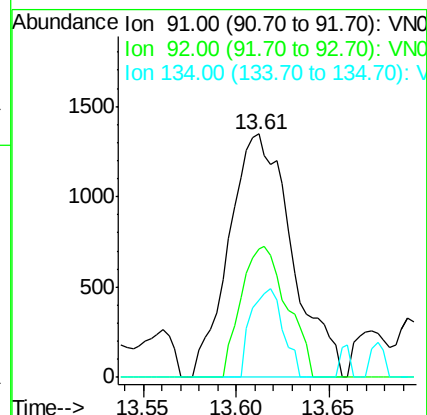
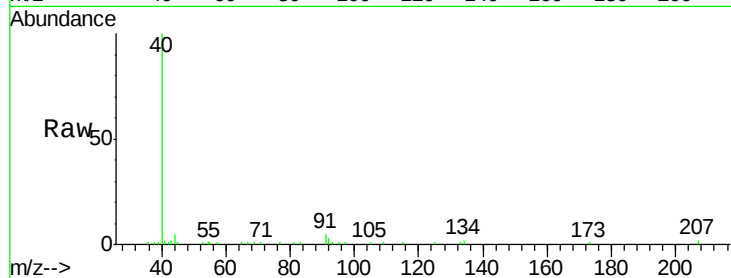
Tot Ion: 91 Resp: 3178

Ion Ratio Lower Upper

91 100

92 39.0 26.2 78.6

134 18.5 14.3 42.9



#93

1,2,4-Trichlorobenzene

Concen: 0.427 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.01 min

Lab File: VN054555.D

Acq: 22 Mar 2019 13:58

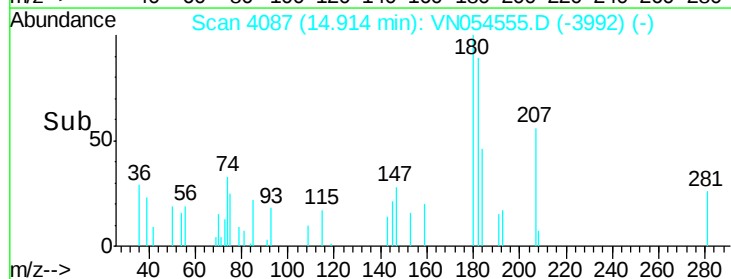
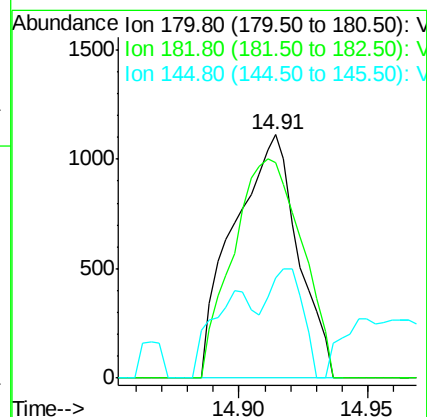
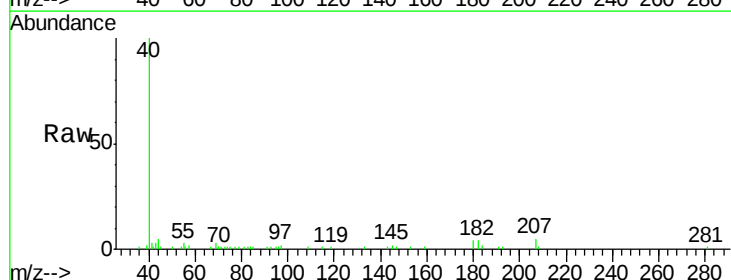
Tgt Ion: 180 Resp: 1936

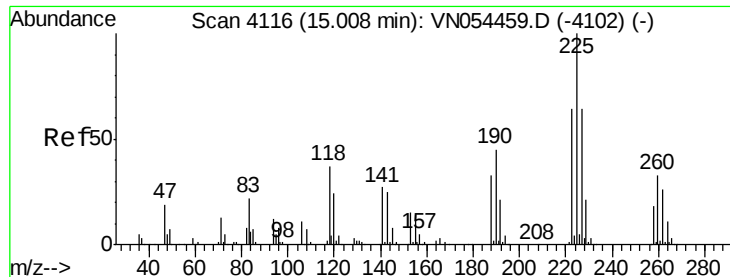
Ion Ratio Lower Upper

180 100

182 96.3 48.0 144.2

145 24.1 14.2 42.8





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4118

Delta R.T. 0.01 min

Lab File: VN054555.D

Acq: 22 Mar 2019 13:58

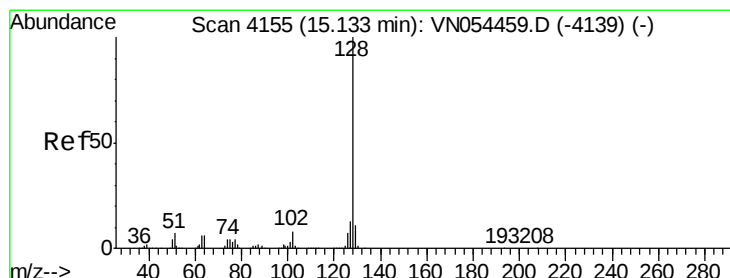
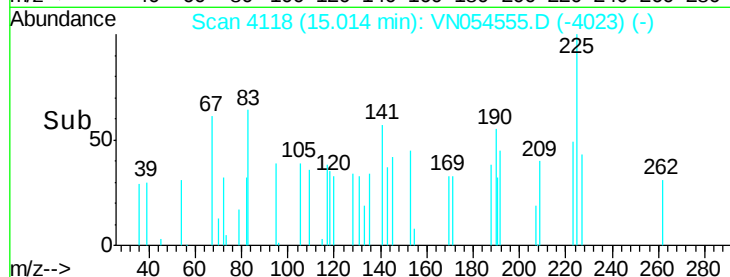
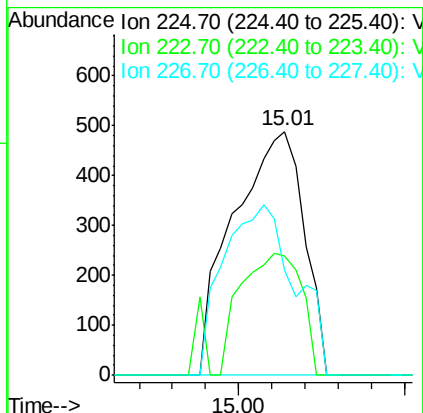
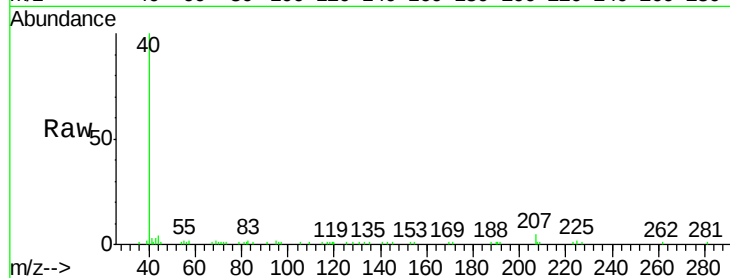
Instrument :

MSVOA_N

ClientSampleId :

OUTFALL001-190319

Tot Ion:	225	Resp:	723
Ion	Ratio	Lower	Upper
225	100		
223	43.2	31.1	93.5
227	71.1	31.9	95.9



#95

Naphthalene

Concen: 0.916 ug/l

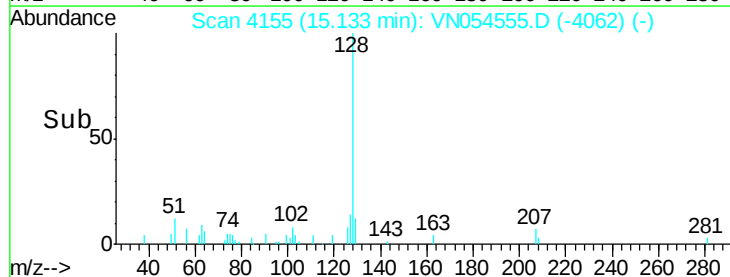
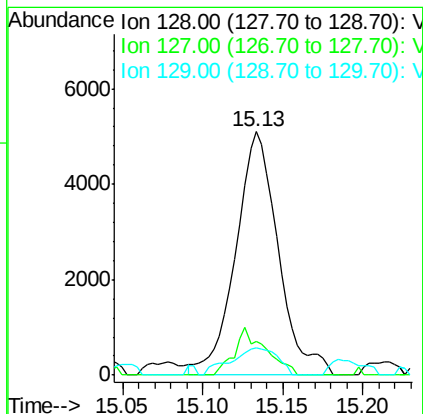
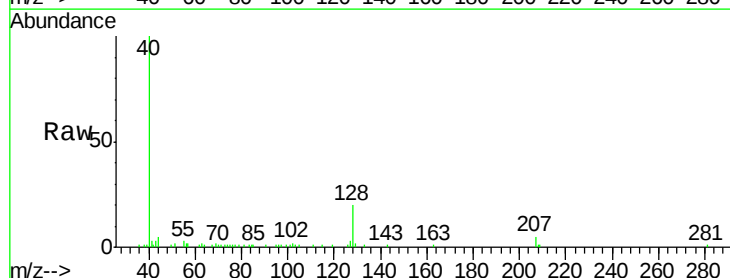
RT: 15.13 min Scan# 4155

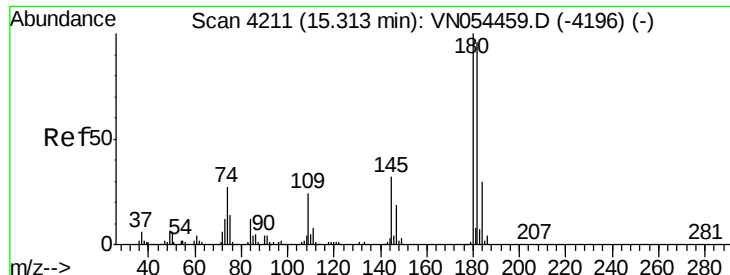
Delta R.T. -0.00 min

Lab File: VN054555.D

Acq: 22 Mar 2019 13:58

Tgt Ion:	128	Resp:	9264
Ion	Ratio	Lower	Upper
128	100		
127	14.2	10.1	15.1
129	12.2	8.7	13.1





#96

1,2,3-Trichlorobenzene

Concen: 0.547 ug/l

RT: 15.32 min Scan# 4213

Delta R.T. 0.01 min

Lab File: VN054555.D

Acq: 22 Mar 2019 13:58

Instrument :

MSVOA_N

ClientSampleId :

OUTFALL001-190319

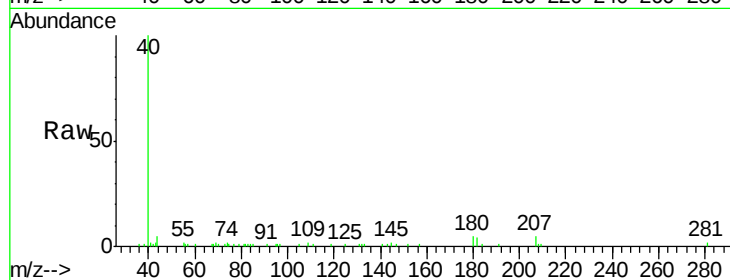
Tot Ion:180 Resp: 2470

Ion Ratio Lower Upper

180 100

182 80.7 47.5 142.6

145 50.4 14.8 44.3#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

