

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022119\
 Data File : VN053888.D
 Acq On : 21 Feb 2019 13:23
 Operator : JC/SP
 Sample : K1540-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 M1-T0-OZ(PRE)

Quant Time: Feb 22 01:18:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022019W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 21 03:36:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	620337	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1032989	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	956877	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	369432	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	325658	51.37	ug/l	0.00
Spiked Amount						
			Recovery	=	102.74%	
35) Dibromofluoromethane	7.59	113	325962	48.08	ug/l	0.00
Spiked Amount						
			Recovery	=	96.16%	
50) Toluene-d8	10.09	98	1255640	51.28	ug/l	0.00
Spiked Amount						
			Recovery	=	102.56%	
62) 4-Bromofluorobenzene	12.40	95	408764	50.57	ug/l	0.00
Spiked Amount						
			Recovery	=	101.14%	

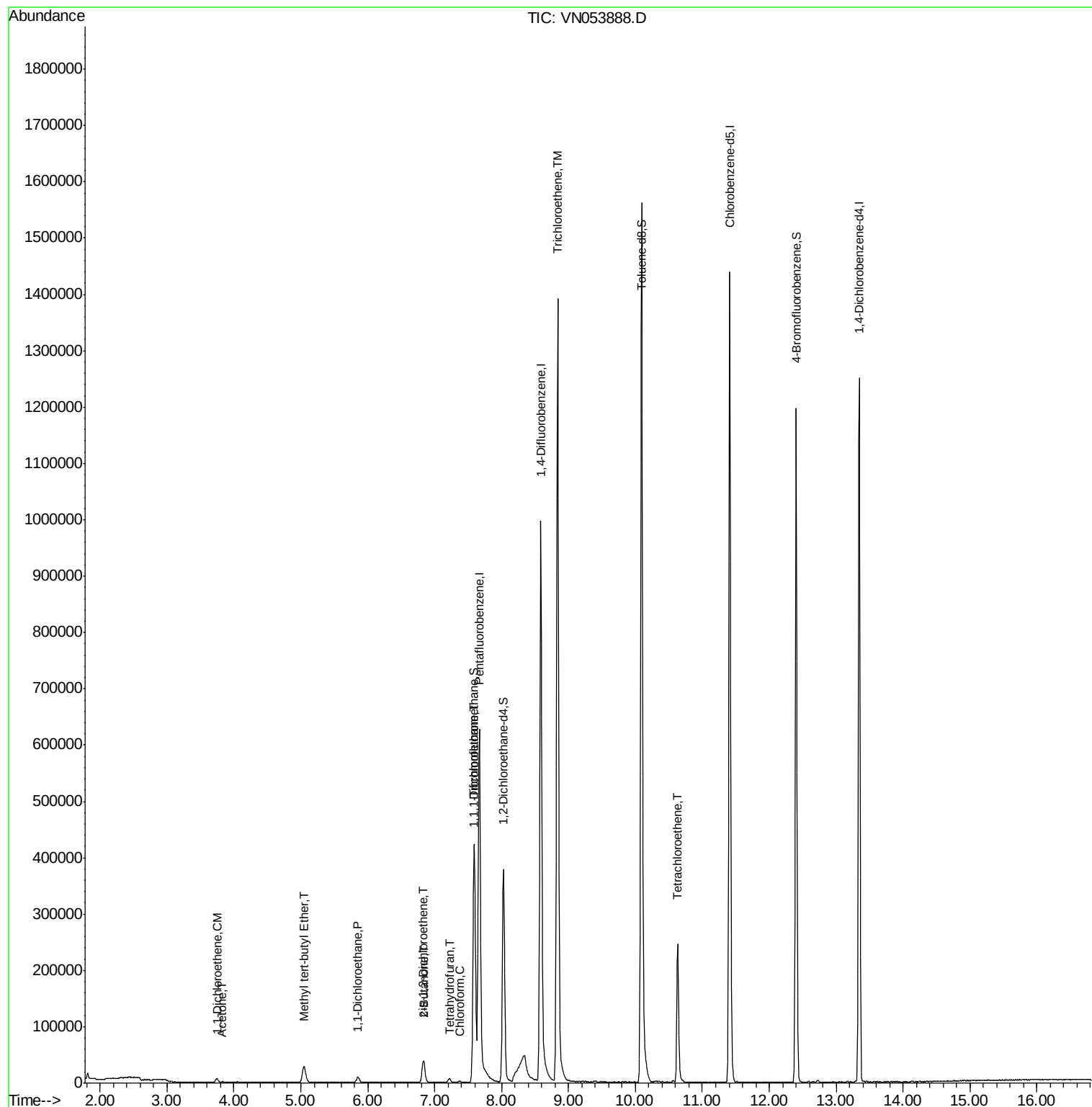
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) 1,1-Dichloroethene	3.74	96	4200	0.730	ug/l	95
16) Acetone	3.82	43	2627	1.507	ug/l	93
19) Methyl tert-butyl Ether	5.04	73	48988	3.354	ug/l	99
24) 1,1-Dichloroethane	5.85	63	16544	1.505	ug/l	99
25) 2-Butanone	6.85	43	6564	2.918	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	26465	3.910	ug/l	90
29) Tetrahydrofuran	7.23	42	5969	4.102	ug/l #	49
30) Chloroform	7.37	83	3437	0.311	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	4928	0.521	ug/l #	48
44) Trichloroethene	8.84	130	594780	75.904	ug/l	98
64) Tetrachloroethene	10.63	164	70193	8.204	ug/l	97

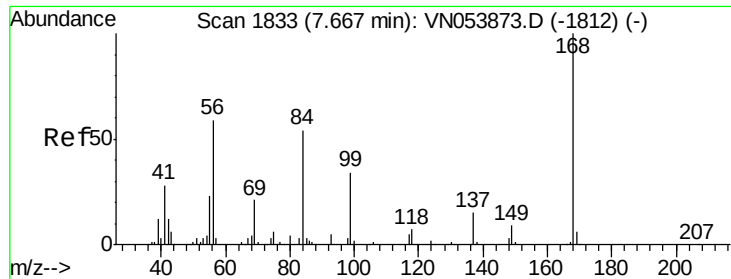
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN053888.D

Acq: 21 Feb 2019 13:23

Instrument :

MSVOA_N

ClientSampleId :

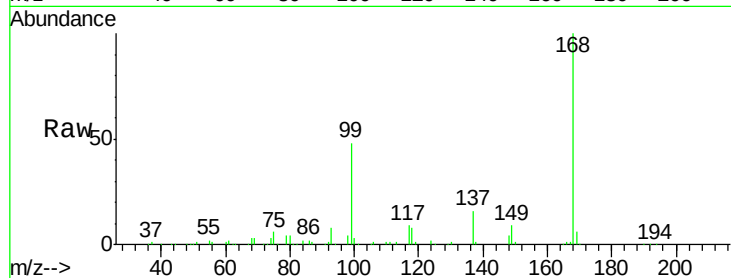
M1-T0-OZ(PRE)

Tot Ion:168 Resp: 620337

Ion Ratio Lower Upper

168 100

99 48.0 36.9 55.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

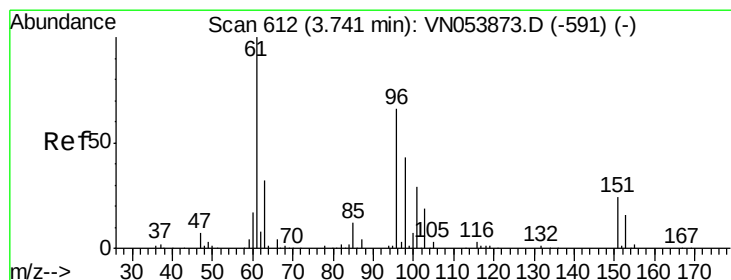
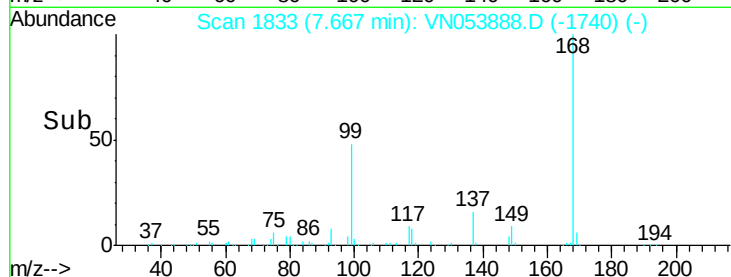
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#12

1,1-Dichloroethene

Concen: 0.730 ug/l

RT: 3.74 min Scan# 612

Delta R.T. -0.00 min

Lab File: VN053888.D

Acq: 21 Feb 2019 13:23

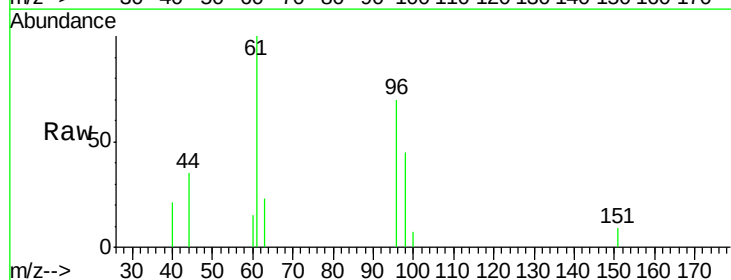
Tgt Ion: 96 Resp: 4200

Ion Ratio Lower Upper

96 100

61 143.5 121.0 181.4

98 64.3 52.2 78.2



Abundance Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO

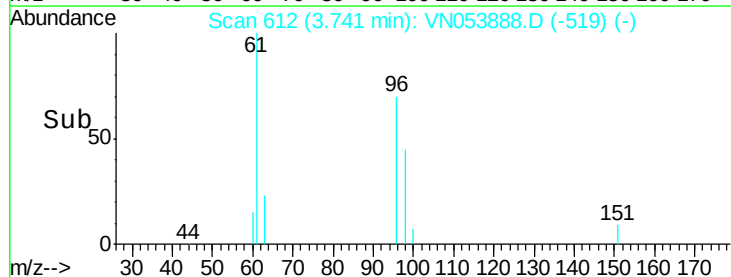
3000

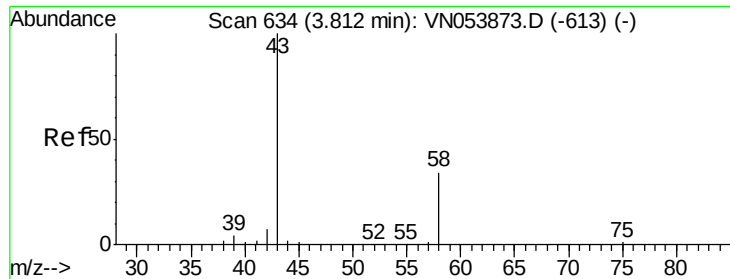
2000

1000

0

Time--> 3.70 3.75 3.80





#16

Acetone

Concen: 1.507 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN053888.D

Acq: 21 Feb 2019 13:23

Instrument :

MSVOA_N

ClientSampleId :

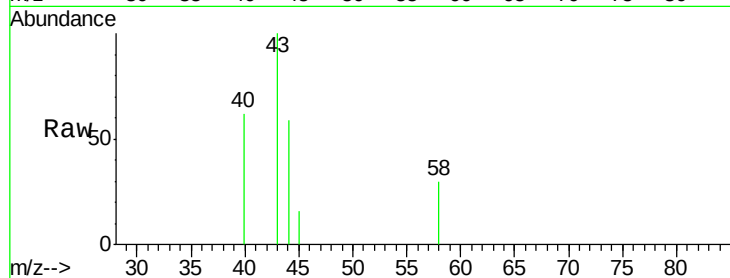
M1-T0-OZ(PRE)

Tot Ion: 43 Resp: 2627

Ion Ratio Lower Upper

43 100

58 30.4 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

1200

1000

800

600

400

200

0

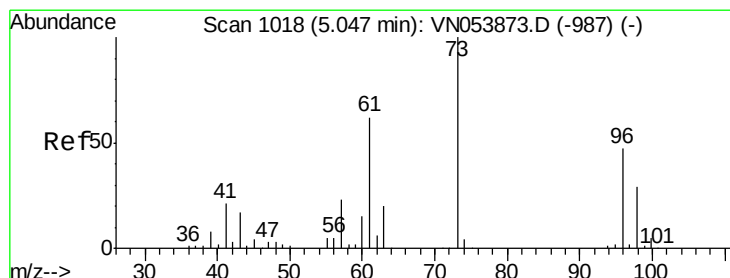
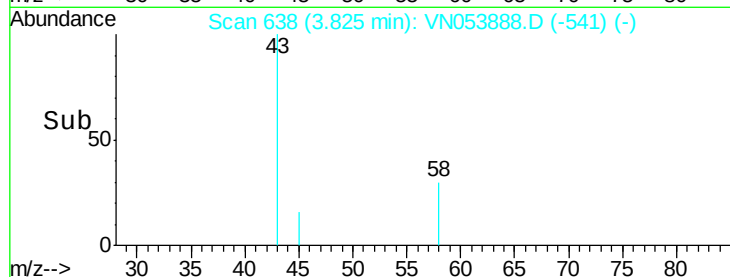
3.75

3.80

3.85

3.90

Time-->



#19

Methyl tert-butyl Ether

Concen: 3.354 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. -0.00 min

Lab File: VN053888.D

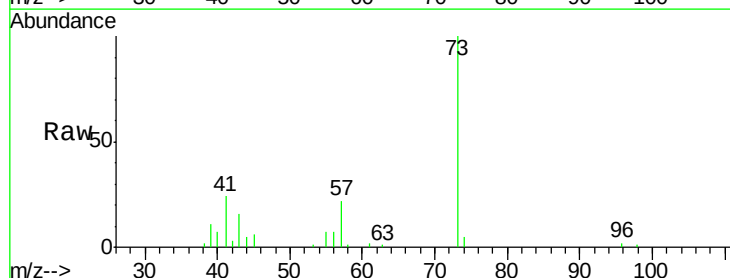
Acq: 21 Feb 2019 13:23

Tgt Ion: 73 Resp: 48988

Ion Ratio Lower Upper

73 100

57 21.9 18.0 27.0



Abundance Ion 73.00 (72.70 to 73.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

15000

10000

5000

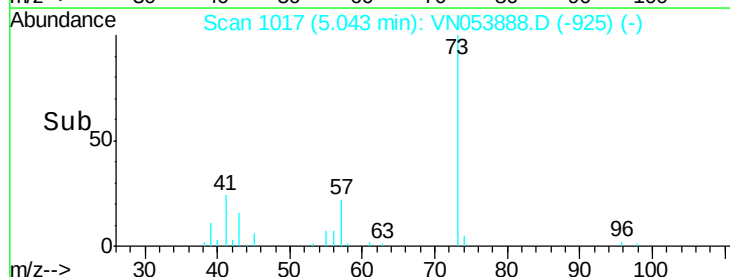
0

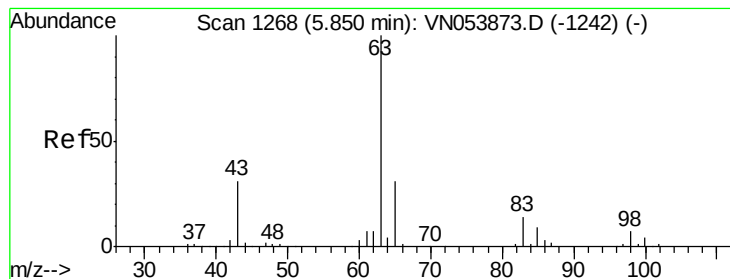
4.90

5.00

5.10

Time-->





#24

1,1-Dichloroethane

Concen: 1.505 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN053888.D

Acq: 21 Feb 2019 13:23

Instrument :

MSVOA_N

ClientSampleId :

M1-T0-OZ(PRE)

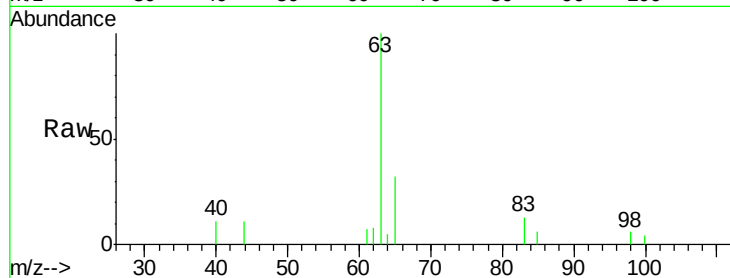
Tot Ion: 63 Resp: 16544

Ion Ratio Lower Upper

63 100

98 6.2 3.4 10.2

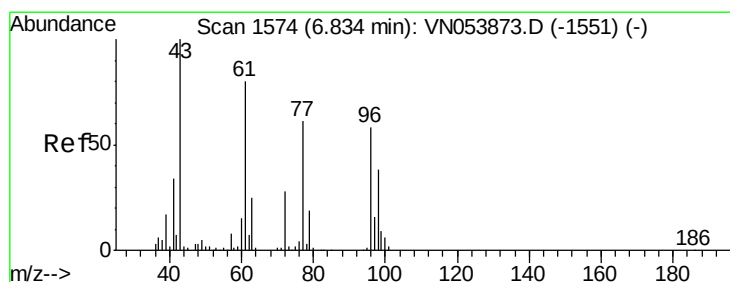
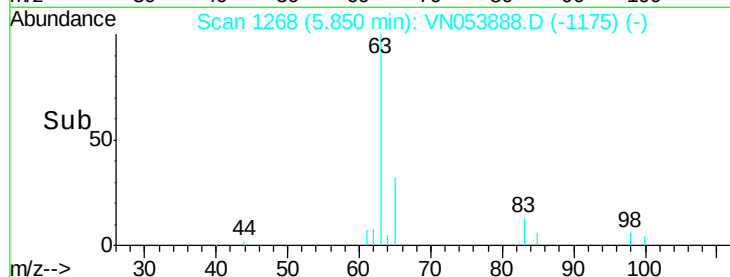
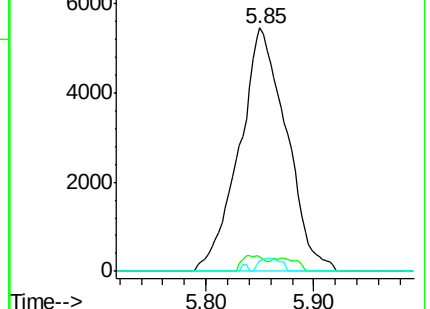
100 4.2 2.2 6.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0



#25

2-Butanone

Concen: 2.918 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. 0.02 min

Lab File: VN053888.D

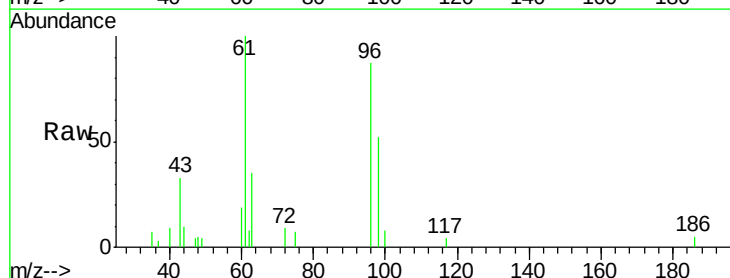
Acq: 21 Feb 2019 13:23

Tgt Ion: 43 Resp: 6564

Ion Ratio Lower Upper

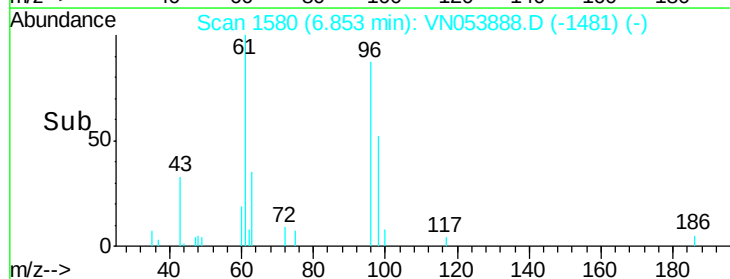
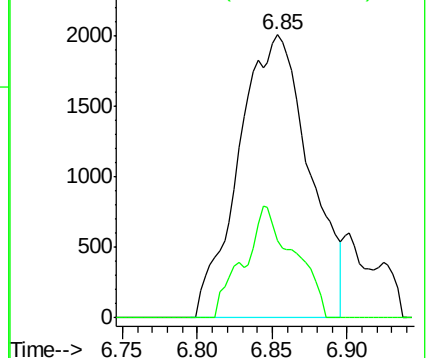
43 100

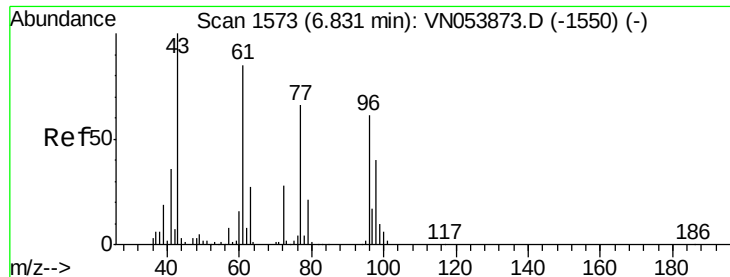
72 27.3 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#27

cis-1,2-Dichloroethene

Concen: 3.910 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN053888.D

Acq: 21 Feb 2019 13:23

Instrument :

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M1-T0-OZ(PRE)

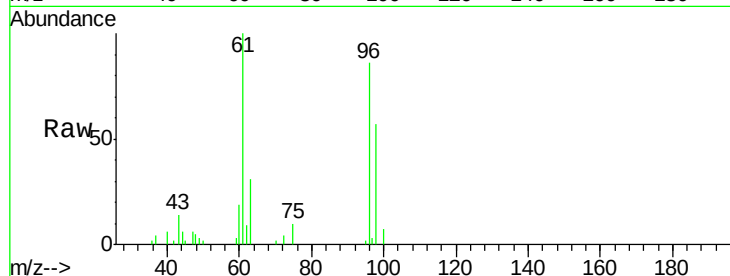
Tot Ion: 96 Resp: 26465

Ion Ratio Lower Upper

96 100

61 120.5 0.0 275.6

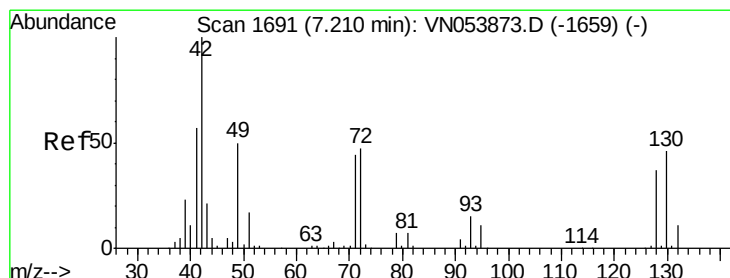
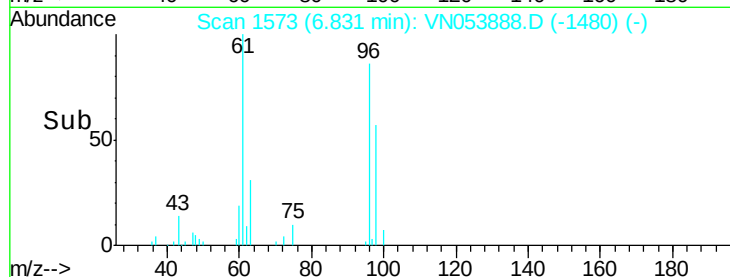
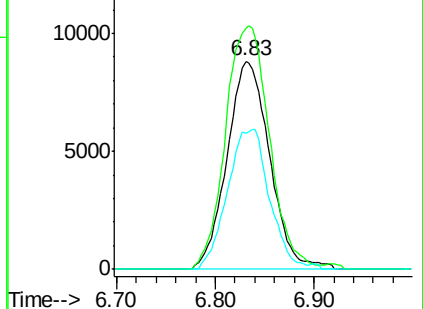
98 65.8 0.0 130.0



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#29

Tetrahydrofuran

Concen: 4.102 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.02 min

Lab File: VN053888.D

Acq: 21 Feb 2019 13:23

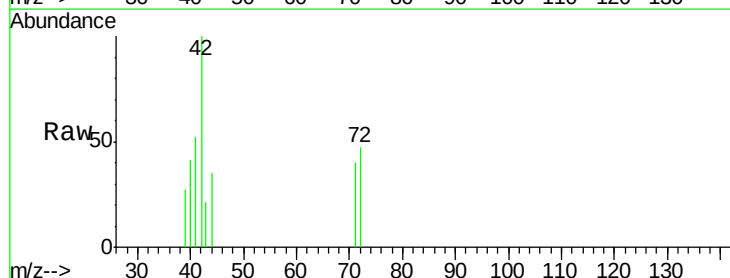
Tgt Ion: 42 Resp: 5969

Ion Ratio Lower Upper

42 100

72 22.8 36.9 55.3#

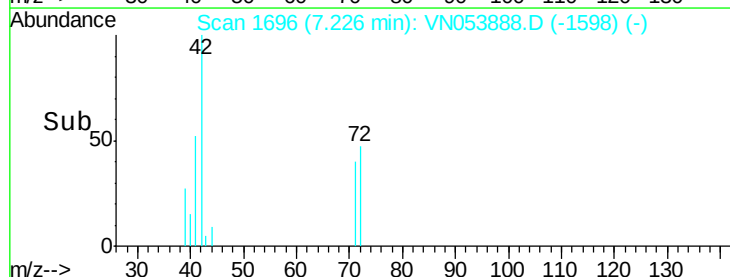
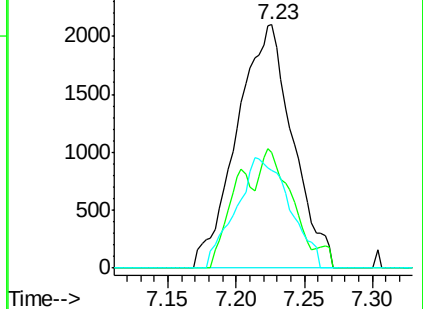
71 0.0 34.6 52.0#

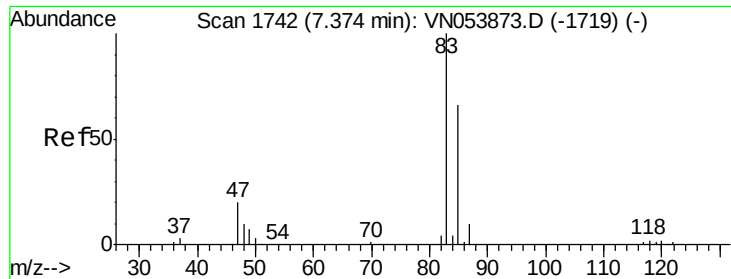


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

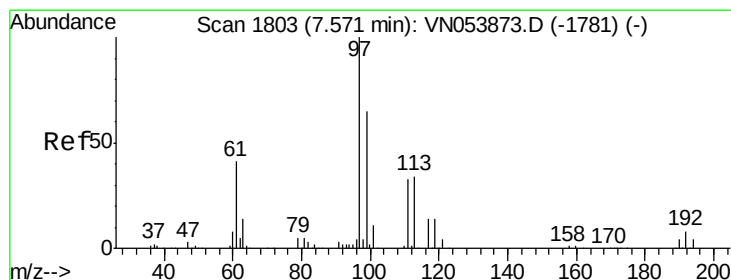
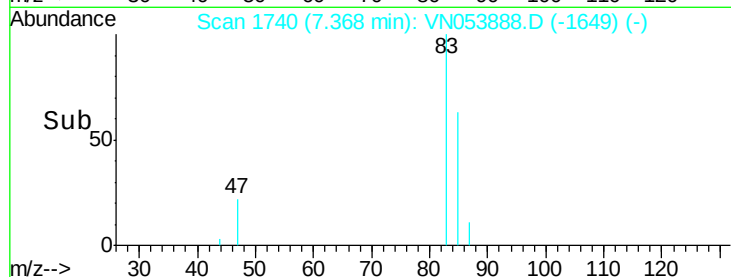
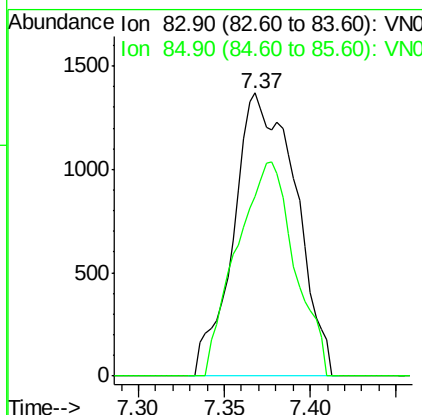
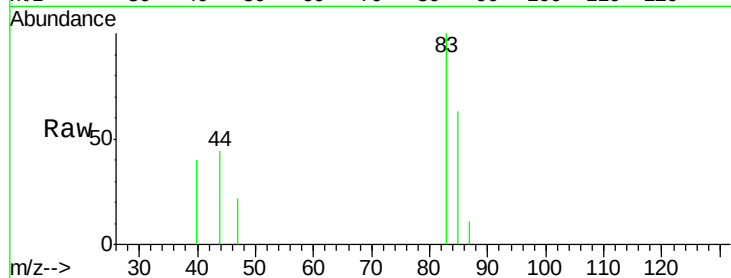




#30
Chloroform
Concen: 0.311 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.01 min
Lab File: VN053888.D
Acq: 21 Feb 2019 13:23

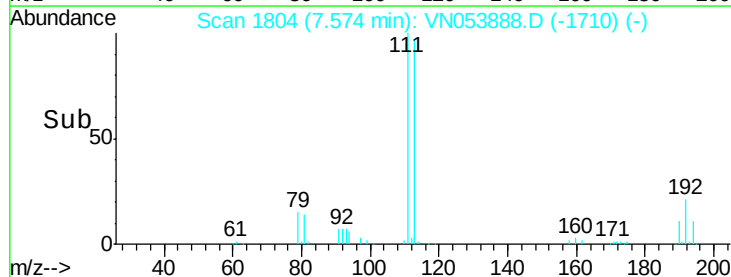
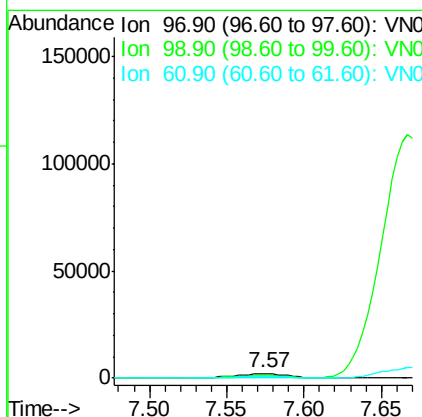
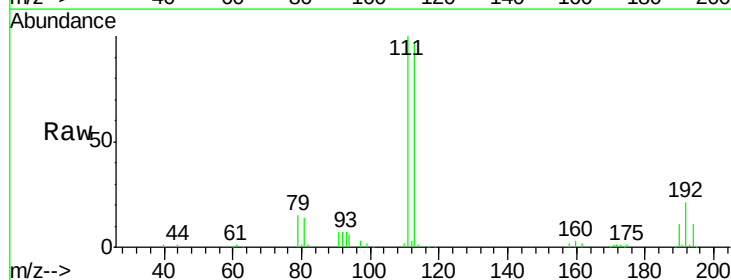
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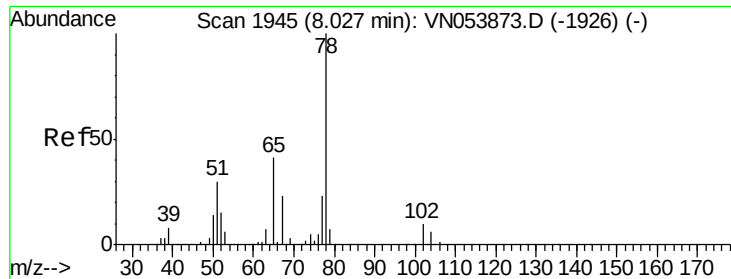
Tot Ion: 83 Resp: 3437
Ion Ratio Lower Upper
83 100
85 63.3 52.6 78.8



#32
1,1,1-Trichloroethane
Concen: 0.521 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN053888.D
Acq: 21 Feb 2019 13:23

Tgt Ion: 97 Resp: 4928
Ion Ratio Lower Upper
97 100
99 0.0 51.8 77.8#
61 38.9 33.2 49.8

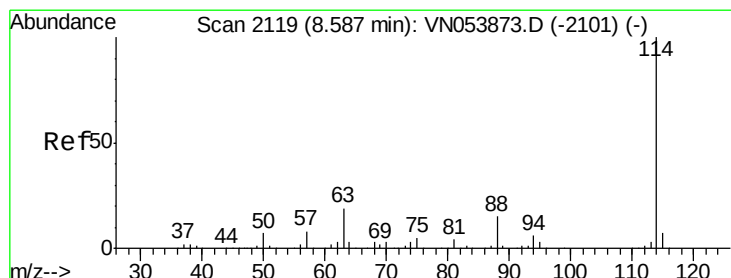
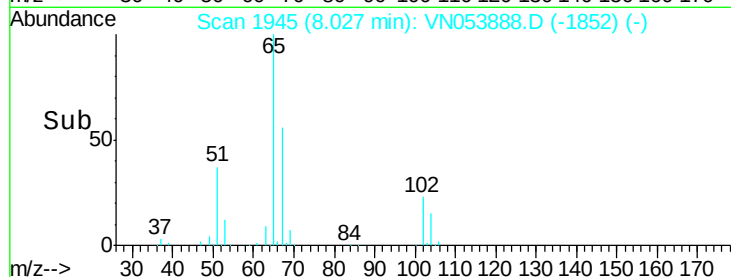
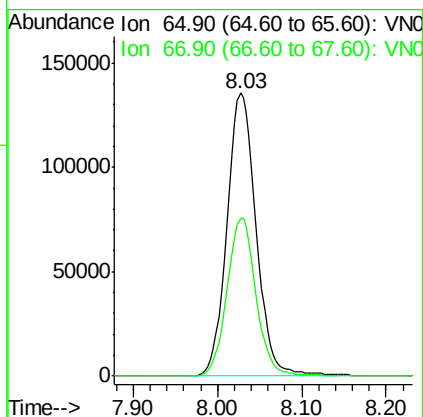
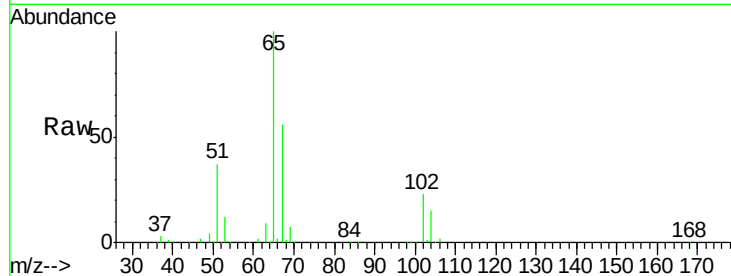




#33
 1,2-Dichloroethane-d4
 Concen: 51.368 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN053888.D
 Acq: 21 Feb 2019 13:23

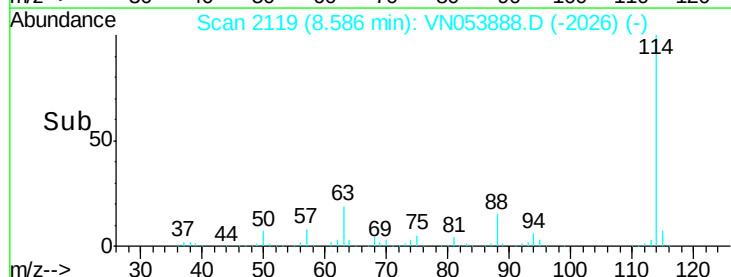
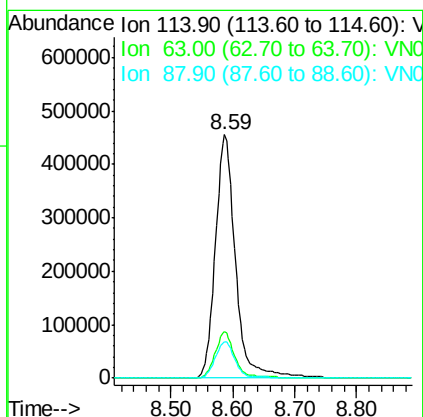
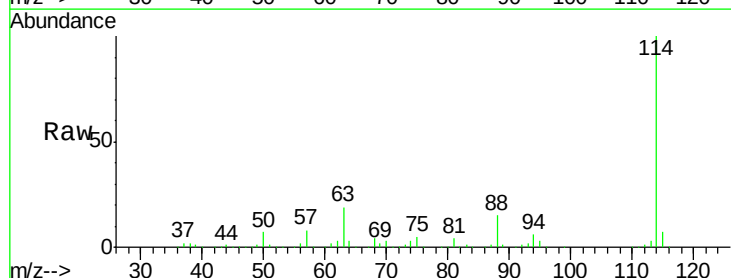
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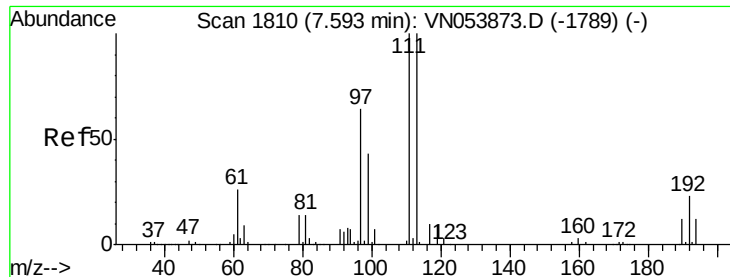
Tot Ion: 65 Resp: 325658
 Ion Ratio Lower Upper
 65 100
 67 55.7 0.0 111.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN053888.D
 Acq: 21 Feb 2019 13:23

Tgt Ion: 114 Resp: 1032989
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 37.4
 88 15.1 0.0 30.4

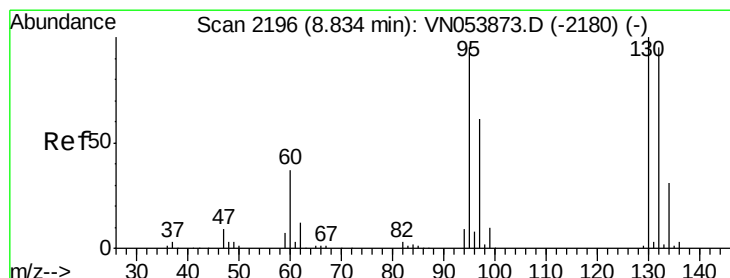
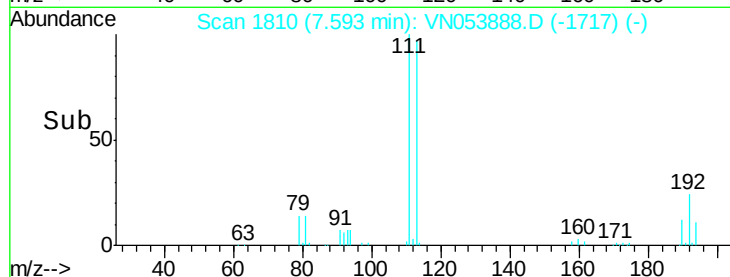
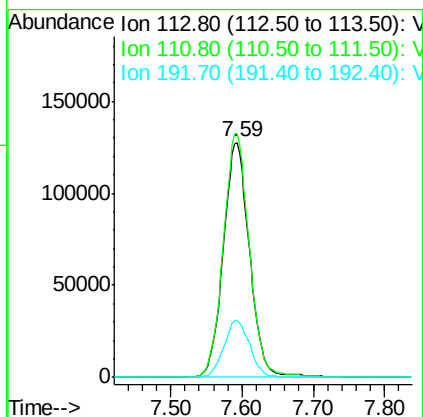
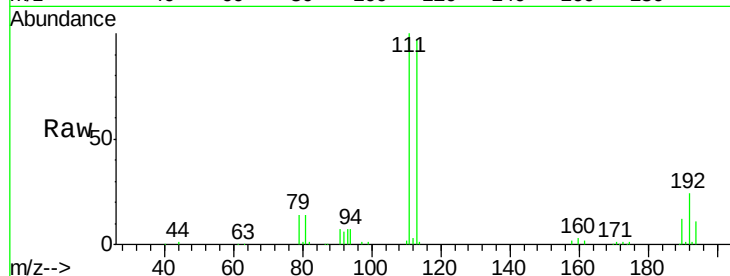




#35
 Dibromofluoromethane
 Concen: 48.082 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN053888.D
 Acq: 21 Feb 2019 13:23

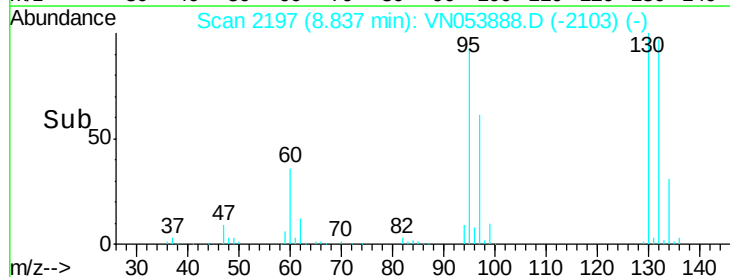
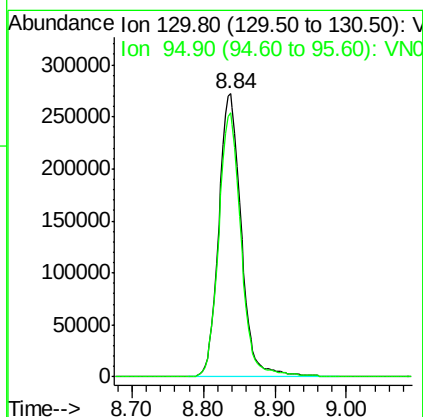
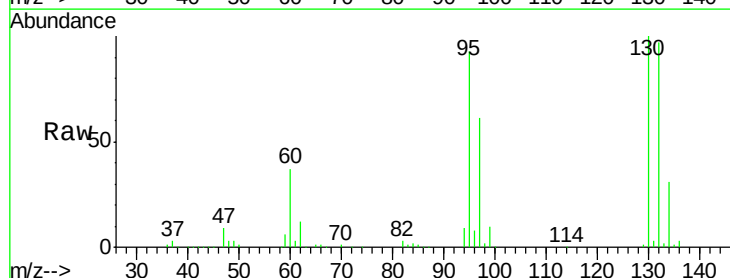
Instrument :
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 M1-T0-OZ(PRE)

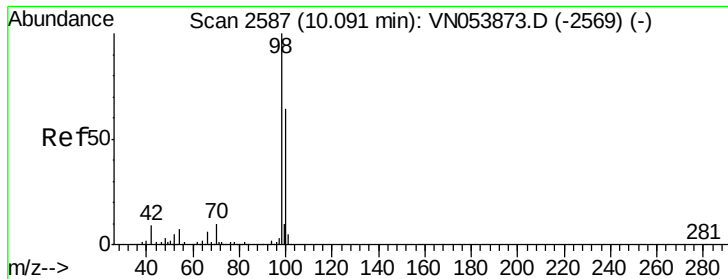
Tot Ion:113 Resp: 325962
 Ion Ratio Lower Upper
 113 100
 111 103.2 81.1 121.7
 192 24.1 18.8 28.2



#44
 Trichloroethene
 Concen: 75.904 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN053888.D
 Acq: 21 Feb 2019 13:23

Tgt Ion:130 Resp: 594780
 Ion Ratio Lower Upper
 130 100
 95 93.1 0.0 190.0





#50

Toluene-d8

Concen: 51.281 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053888.D

Acq: 21 Feb 2019 13:23

Instrument :

MSVOA_N

ClientSampleId :

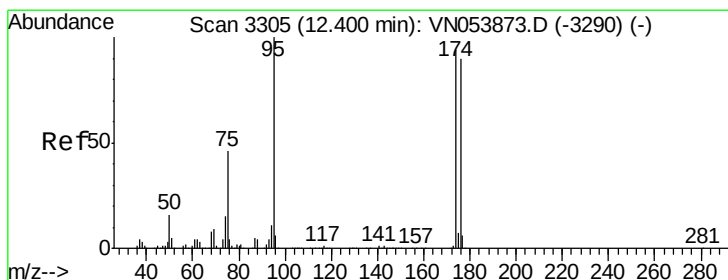
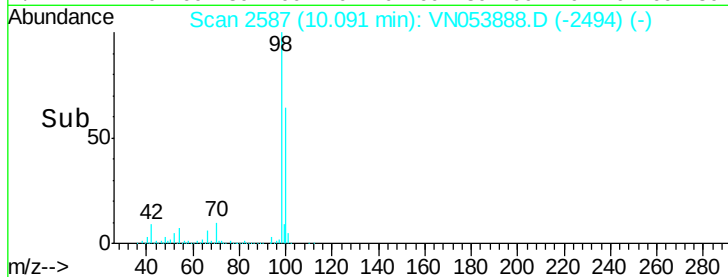
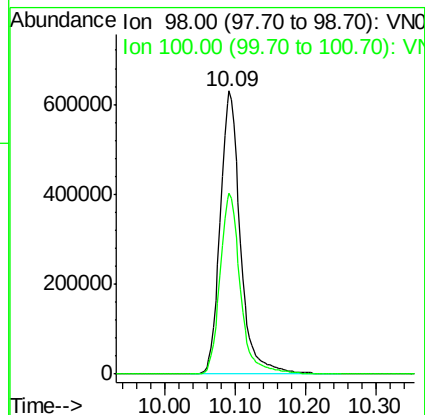
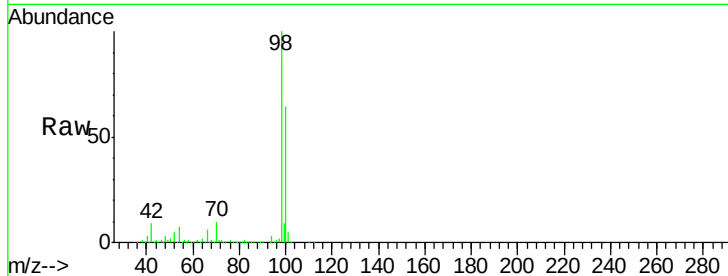
M1-T0-OZ(PRE)

Tot Ion: 98 Resp: 1255640

Ion Ratio Lower Upper

98 100

100 64.4 51.9 77.9



#62

4-Bromofluorobenzene

Concen: 50.567 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053888.D

Acq: 21 Feb 2019 13:23

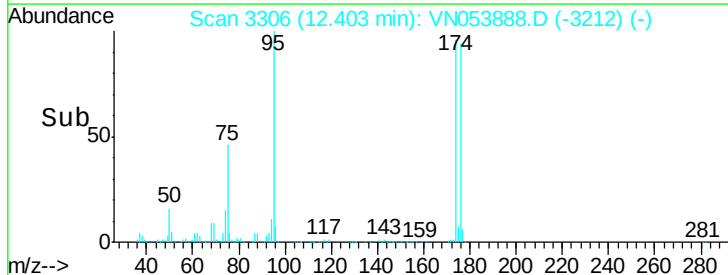
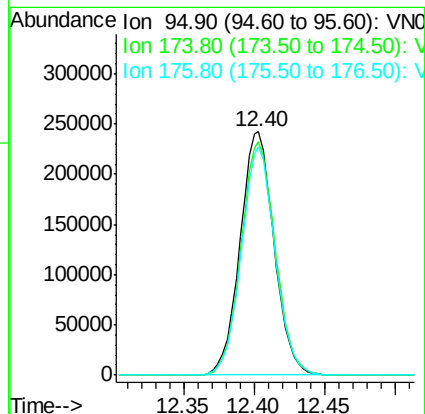
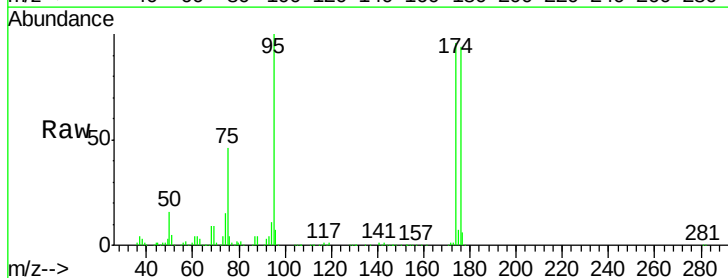
Tgt Ion: 95 Resp: 408764

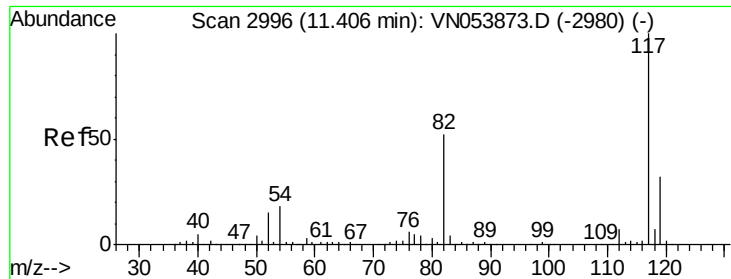
Ion Ratio Lower Upper

95 100

174 96.7 0.0 188.8

176 93.1 0.0 182.6

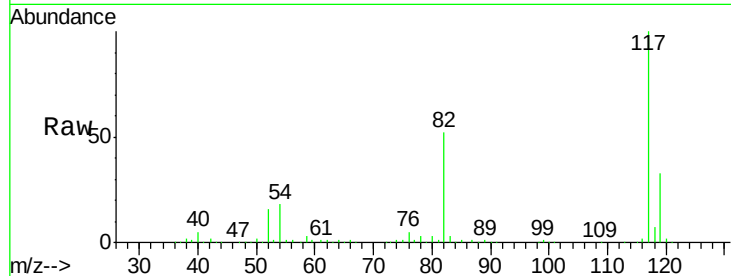




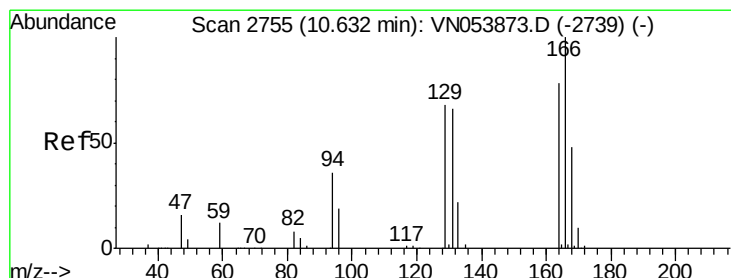
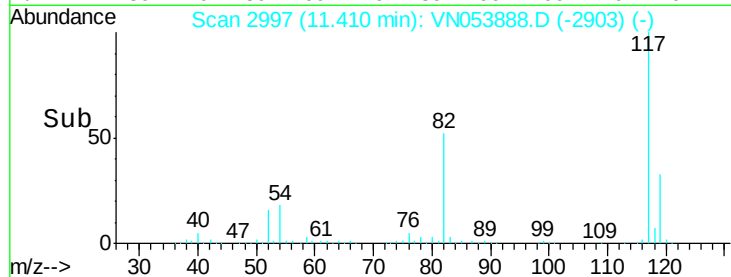
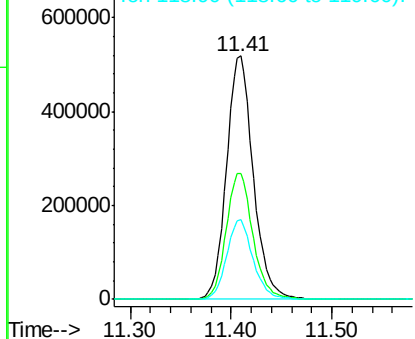
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053888.D
Acq: 21 Feb 2019 13:23

Instrument :
MSVOA_N
ClientSampleId :
M1-T0-OZ(PRE)

Tot Ion:117 Resp: 956877
Ion Ratio Lower Upper
117 100
82 52.0 41.4 62.2
119 32.6 25.3 37.9

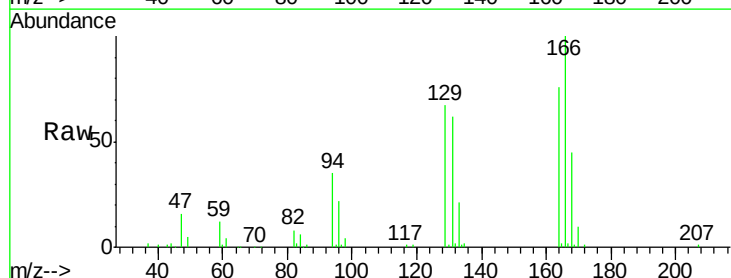


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

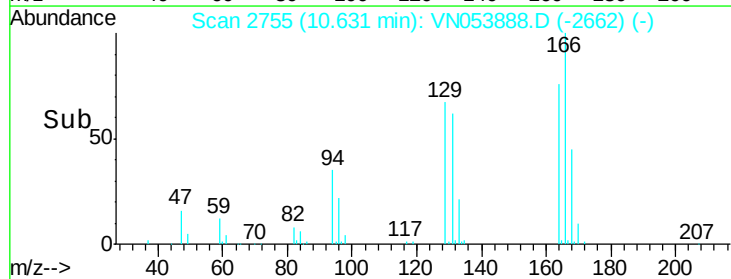
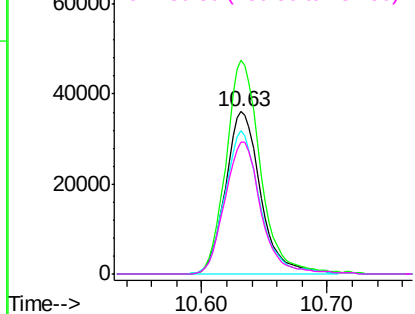


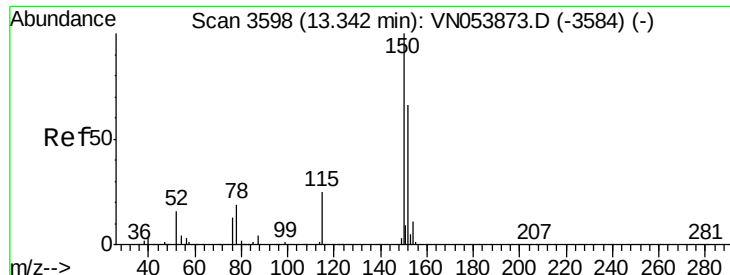
#64
Tetrachloroethene
Concen: 8.204 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN053888.D
Acq: 21 Feb 2019 13:23

Tgt Ion:164 Resp: 70193
Ion Ratio Lower Upper
164 100
166 131.4 102.6 153.8
129 88.5 69.4 104.0
131 81.3 68.1 102.1



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): 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: VN053888.D

Acq: 21 Feb 2019 13:23

Instrument :

MSVOA_N

ClientSampleId :

M1-T0-OZ(PRE)

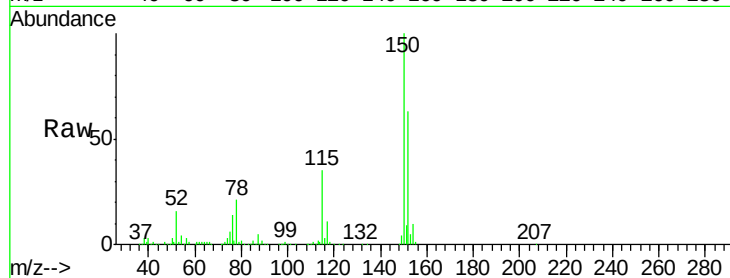
Tot Ion:152 Resp: 369432

Ion Ratio Lower Upper

152 100

115 55.6 27.2 81.6

150 157.8 0.0 348.2



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

