

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031519\
 Data File : VN054320.D
 Acq On : 15 Mar 2019 20:05
 Operator : JC/SP
 Sample : K1932-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TW-7

Quant Time: Mar 16 03:23:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1305388	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2167965	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2289382	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	940382	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	693769	50.04	ug/l	0.00
Spiked Amount			Recovery	=	100.08%	
35) Dibromofluoromethane	7.59	113	662040	47.35	ug/l	0.00
Spiked Amount			Recovery	=	94.70%	
50) Toluene-d8	10.09	98	2703041	52.34	ug/l	0.00
Spiked Amount			Recovery	=	104.68%	
62) 4-Bromofluorobenzene	12.40	95	1022271	56.58	ug/l	0.00
Spiked Amount			Recovery	=	113.16%	

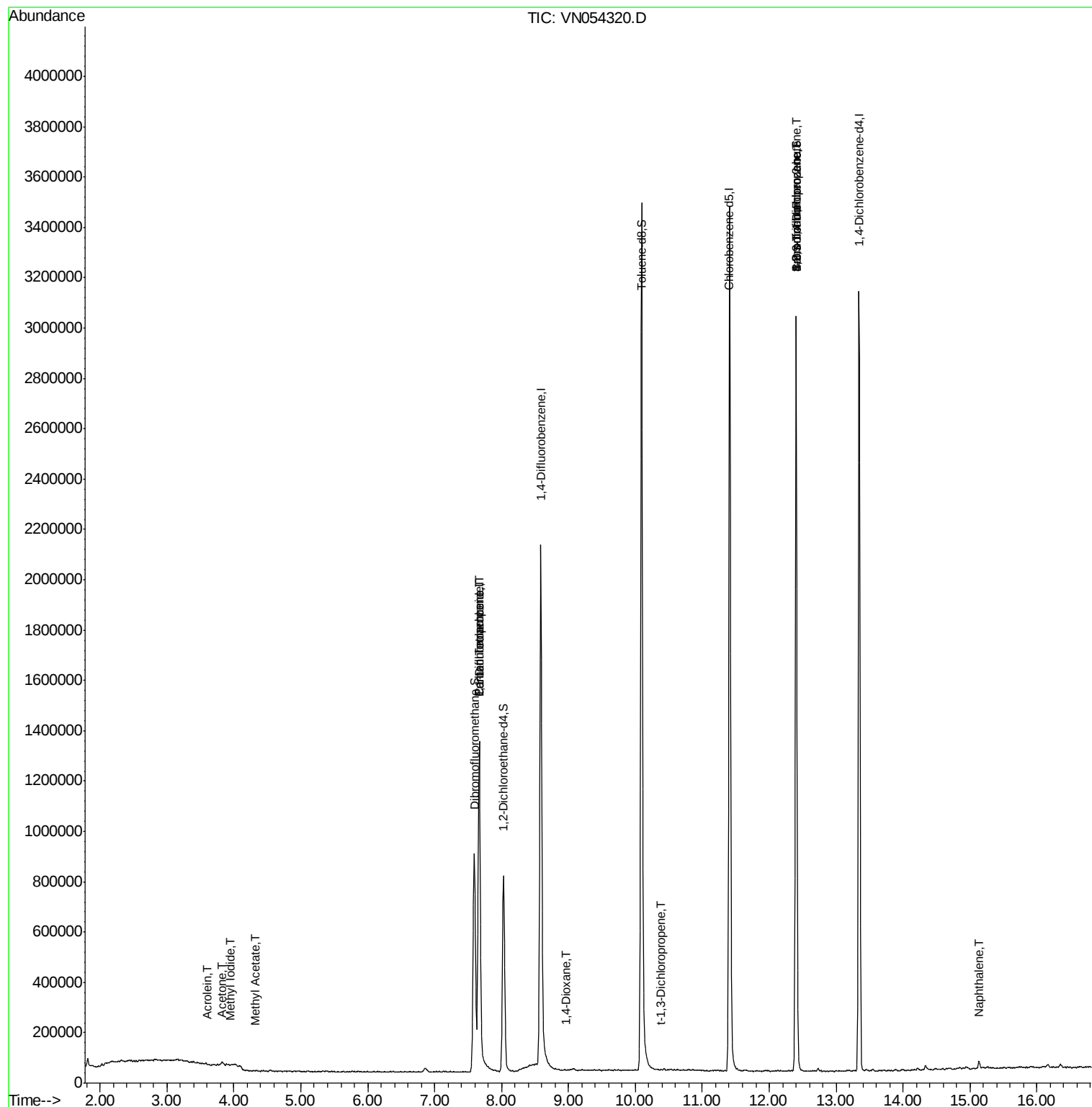
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.95	142	160	1.505	ug/l #	45
13) Acrolein	3.61	56	319	0.354	ug/l	90
16) Acetone	3.82	43	16854	4.246	ug/l	99
18) Methyl Acetate	4.33	43	2255	0.281	ug/l #	63
31) Cyclohexane	7.66	56	20798	Below Cal	#	9
36) 1,1-Dichloropropene	7.67	75	75589	3.786	ug/l #	48
38) Carbon Tetrachloride	7.67	117	105012	5.016	ug/l #	16
49) 1,4-Dioxane	8.97	88	32	0.221	ug/l #	27
53) t-1,3-Dichloropropene	10.38	75	32	1.987	ug/l #	42
71) Bromoform	12.40	173	6442	2.792	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	486254	35.163	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	486254	120.201	ug/l #	11
95) Naphthalene	15.13	128	26761	4.074	ug/l	97

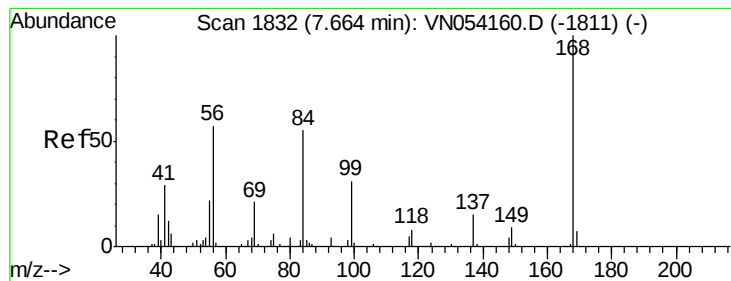
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN054320.D

Acq: 15 Mar 2019 20:05

Instrument :

MSVOA_N

ClientSampled :

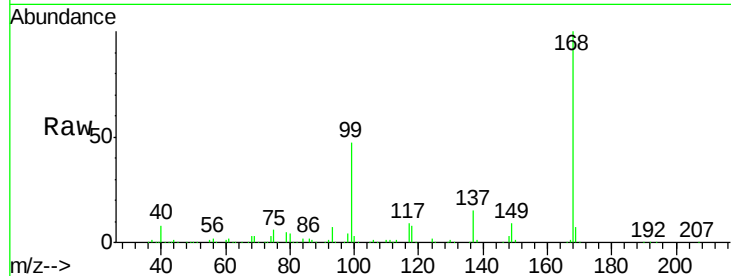
TW-7

Tot Ion:168 Resp: 1305388

Ion Ratio Lower Upper

168 100

99 46.9 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

500000

400000

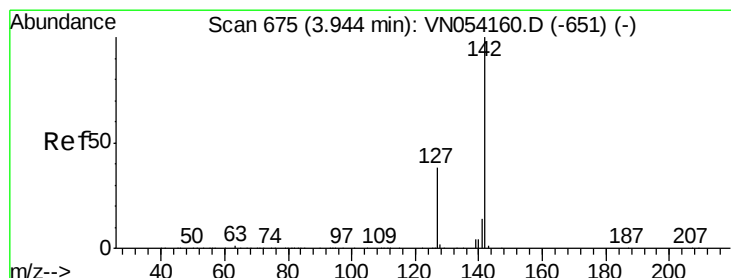
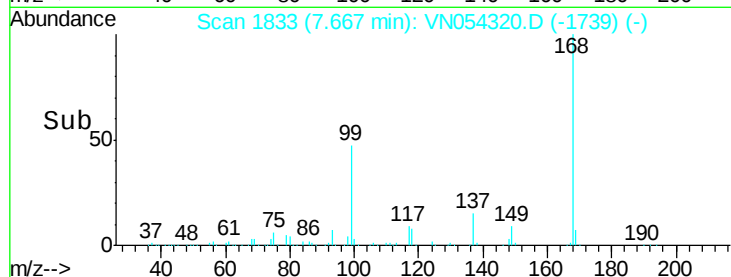
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#10

Methyl Iodide

Concen: 1.505 ug/l

RT: 3.95 min Scan# 678

Delta R.T. 0.01 min

Lab File: VN054320.D

Acq: 15 Mar 2019 20:05

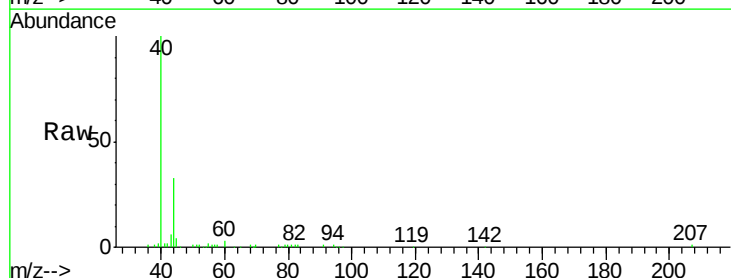
Tgt Ion:142 Resp: 160

Ion Ratio Lower Upper

142 100

127 0.0 30.3 45.5#

141 0.0 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

3.95

250

200

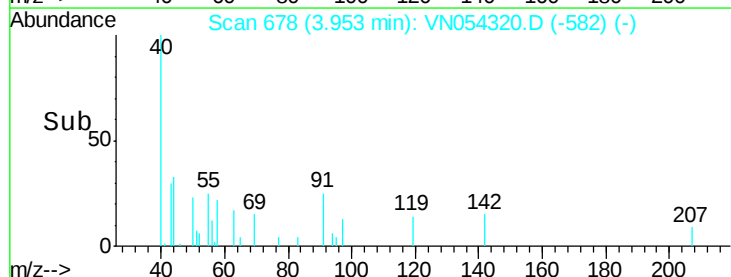
150

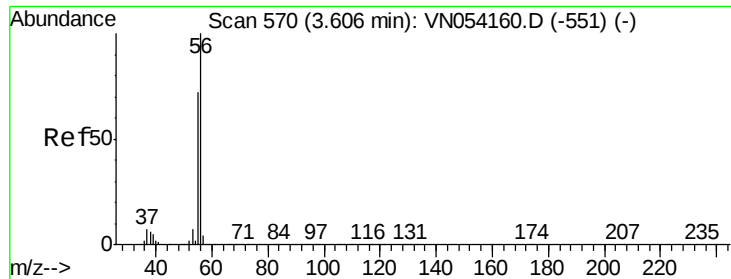
100

50

0

Time--> 3.94 3.95 3.96 3.97





#13

Acrolein

Concen: 0.354 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN054320.D

Acq: 15 Mar 2019 20:05

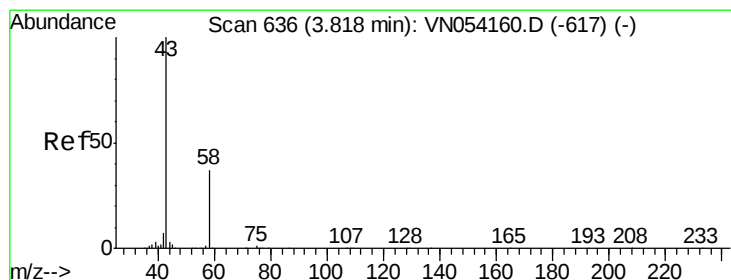
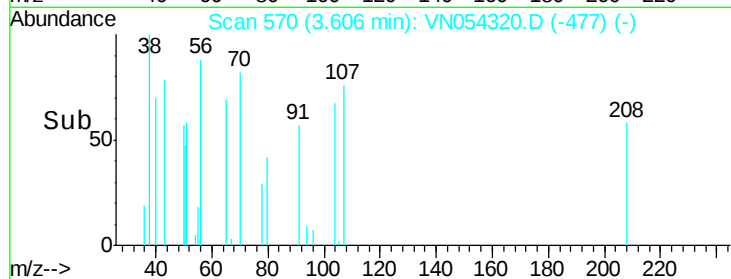
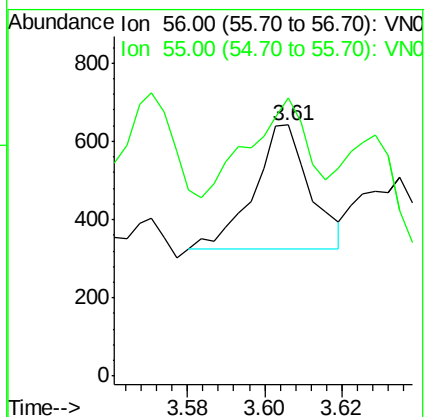
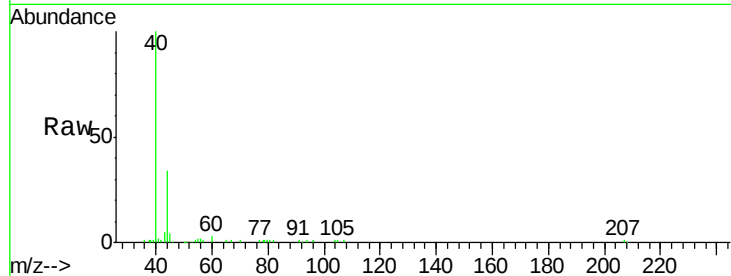
Instrument :
MSVOA_N
ClientSampled :
TW-7

Tot Ion: 56 Resp: 319

Ion Ratio Lower Upper

56 100

55 79.3 56.7 85.1



#16

Acetone

Concen: 4.246 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN054320.D

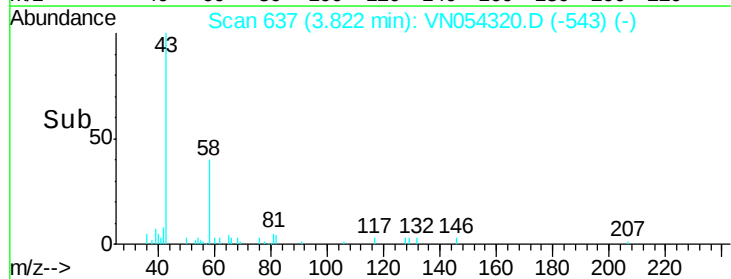
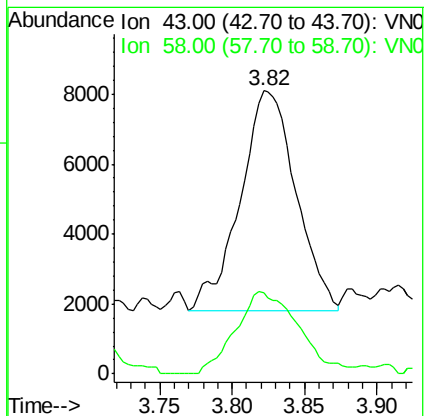
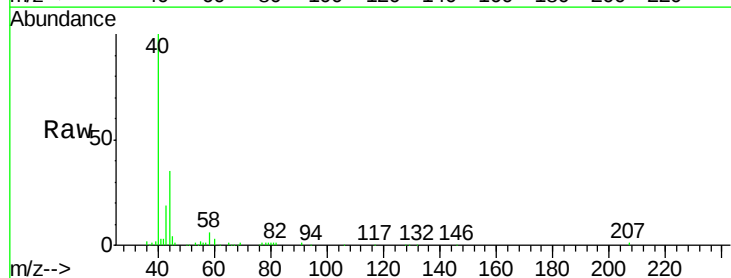
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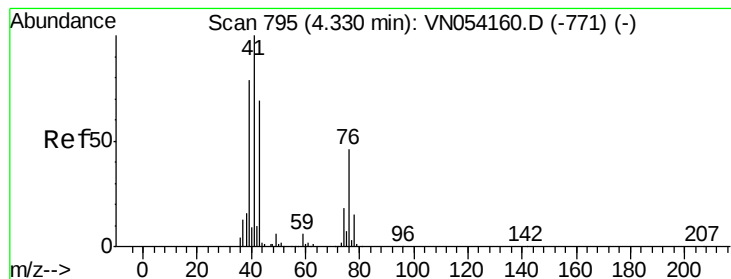
Tgt Ion: 43 Resp: 16854

Ion Ratio Lower Upper

43 100

58 36.7 29.9 44.9





#18

Methyl Acetate

Concen: 0.281 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN054320.D

Acq: 15 Mar 2019 20:05

Instrument :

MSVOA_N

ClientSampled :

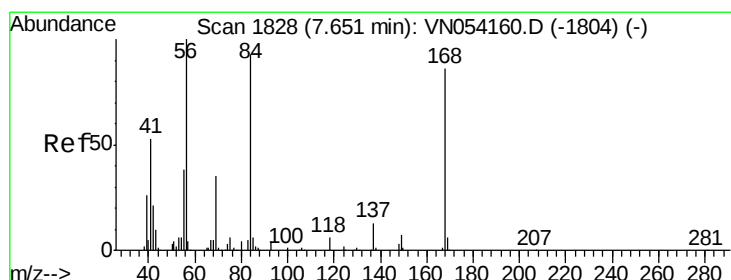
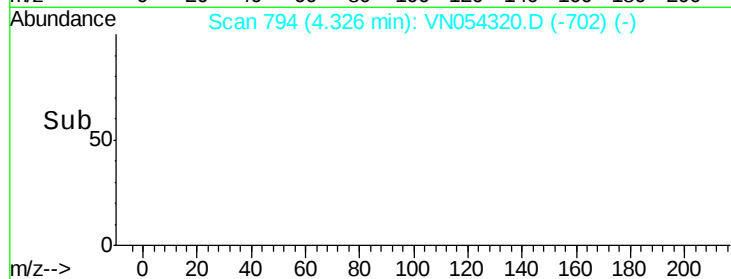
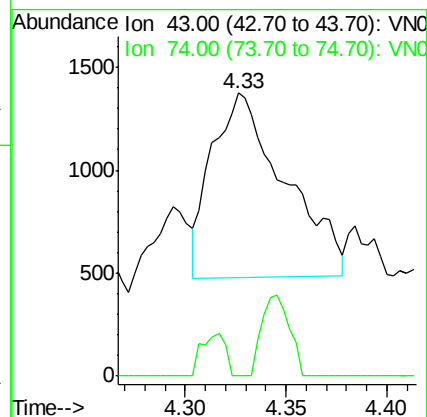
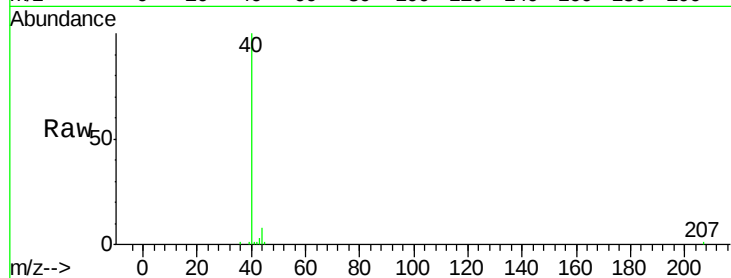
TW-7

Tot Ion: 43 Resp: 2255

Ion Ratio Lower Upper

43 100

74 7.4 20.8 31.2#



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054320.D

Acq: 15 Mar 2019 20:05

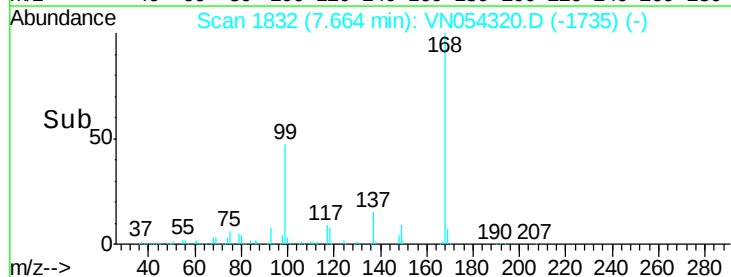
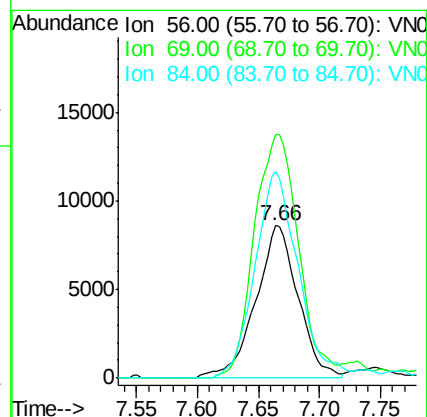
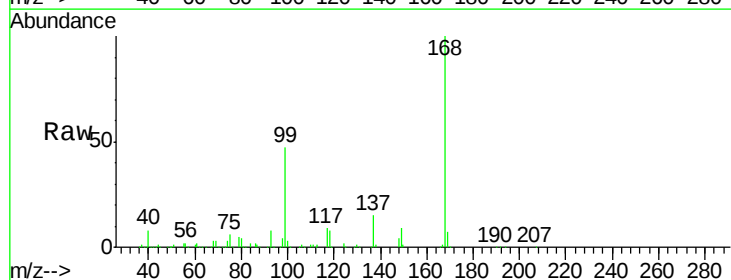
Tgt Ion: 56 Resp: 20798

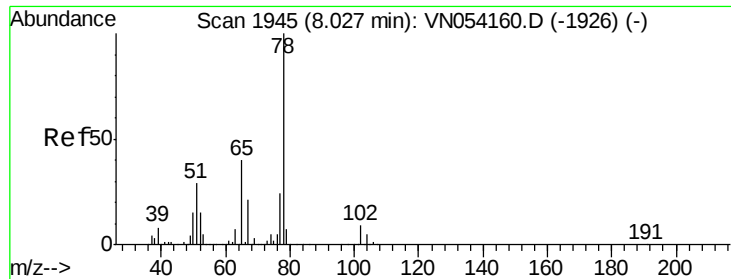
Ion Ratio Lower Upper

56 100

69 159.9 27.8 41.6#

84 136.0 74.6 111.8#

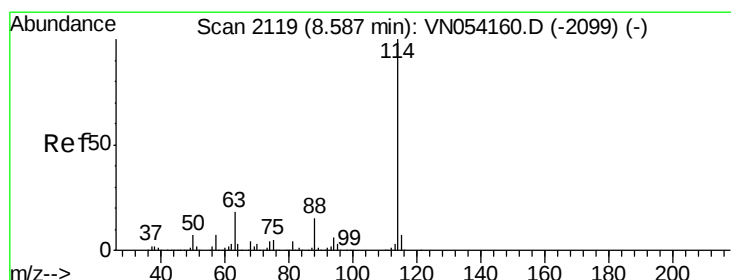
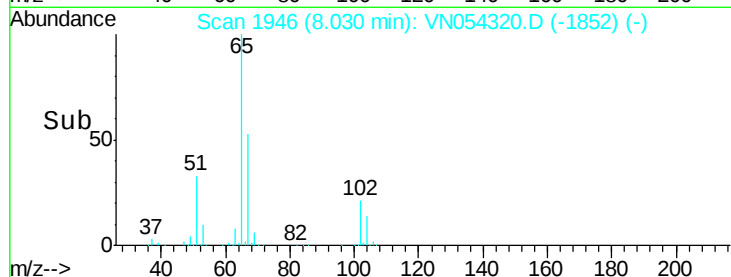
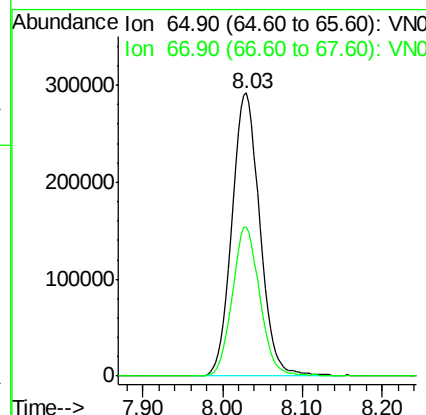
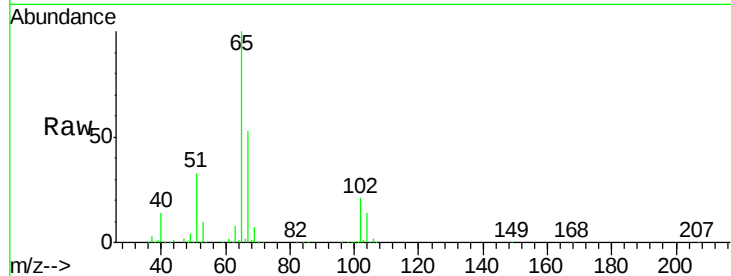




#33
 1,2-Dichloroethane-d4
 Concen: 50.044 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN054320.D
 Acq: 15 Mar 2019 20:05

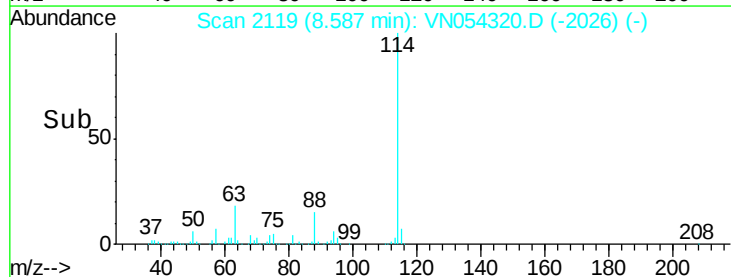
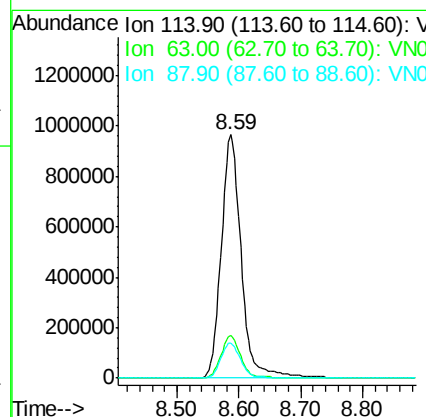
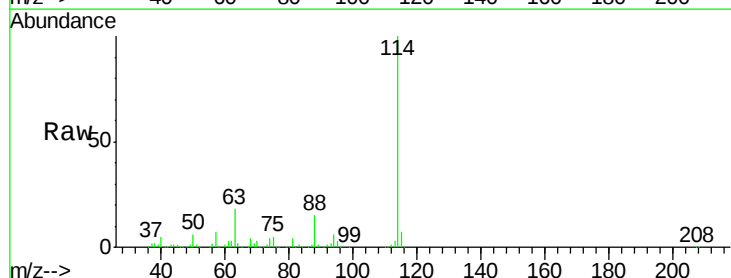
Instrument :
 MSVOA_N
 ClientSampleId :
 TW-7

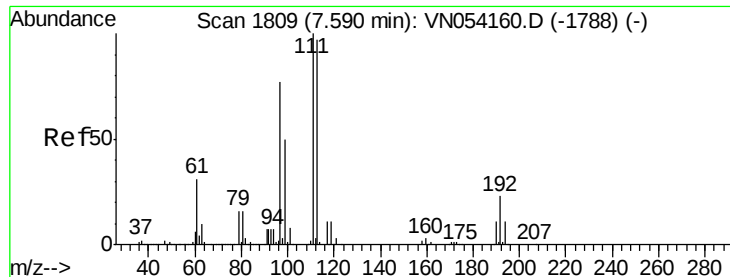
Tot Ion: 65 Resp: 693769
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054320.D
 Acq: 15 Mar 2019 20:05

Tgt Ion: 114 Resp: 2167965
 Ion Ratio Lower Upper
 114 100
 63 17.5 0.0 35.2
 88 14.5 0.0 30.2

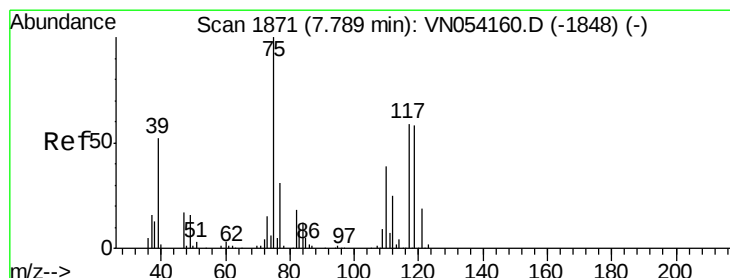
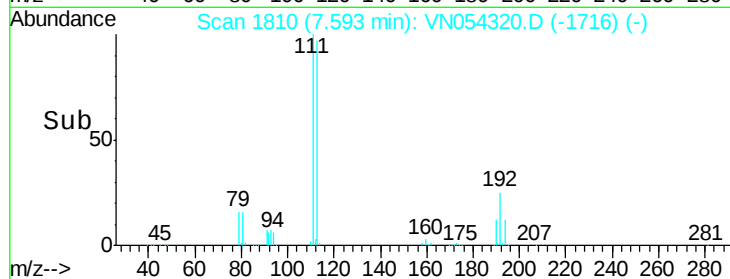
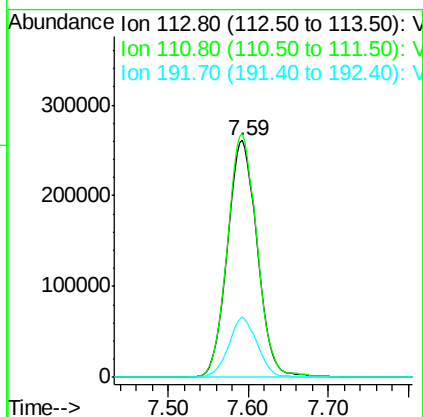
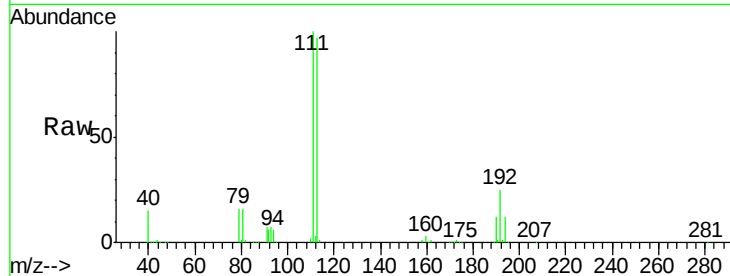




#35
 Dibromofluoromethane
 Concen: 47.348 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054320.D
 Acq: 15 Mar 2019 20:05

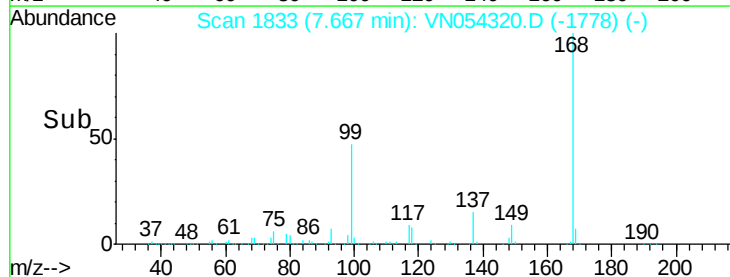
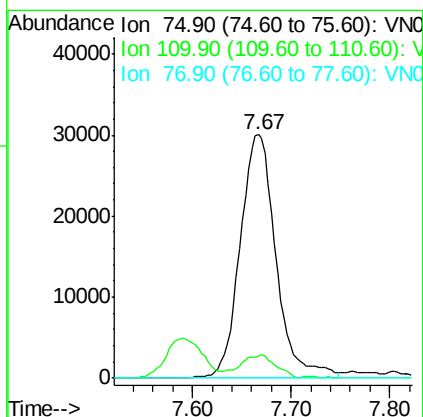
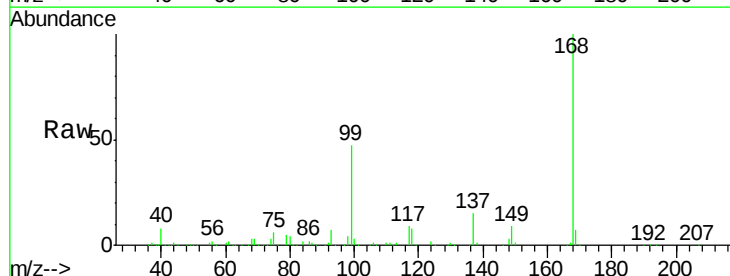
Instrument :
 MSVOA_N
 ClientSampleId :
 TW-7

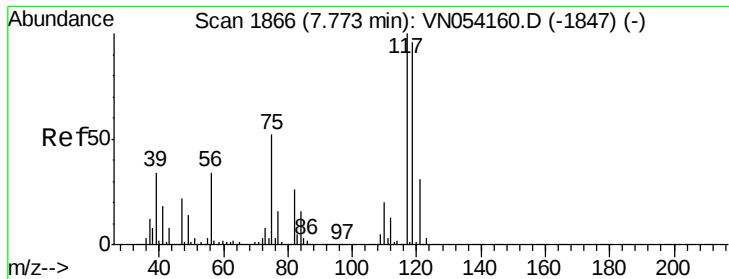
Tot Ion:113 Resp: 662040
 Ion Ratio Lower Upper
 113 100
 111 102.4 82.2 123.4
 192 24.6 19.2 28.8



#36
 1,1-Dichloropropene
 Concen: 3.786 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054320.D
 Acq: 15 Mar 2019 20:05

Tgt Ion: 75 Resp: 75589
 Ion Ratio Lower Upper
 75 100
 110 8.8 19.1 57.5#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.016 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN054320.D

Acq: 15 Mar 2019 20:05

Instrument :

MSVOA_N

ClientSampled :

TW-7

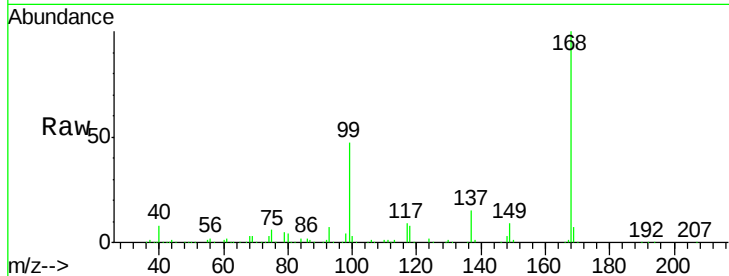
Tot Ion:117 Resp: 105012

Ion Ratio Lower Upper

117 100

119 4.3 76.3 114.5#

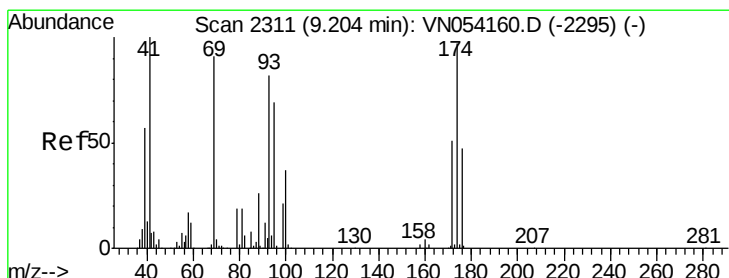
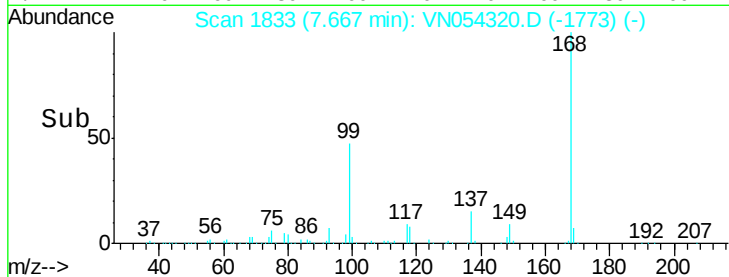
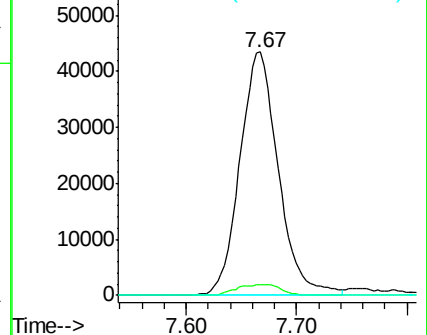
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 0.221 ug/l

RT: 8.97 min Scan# 2239

Delta R.T. -0.23 min

Lab File: VN054320.D

Acq: 15 Mar 2019 20:05

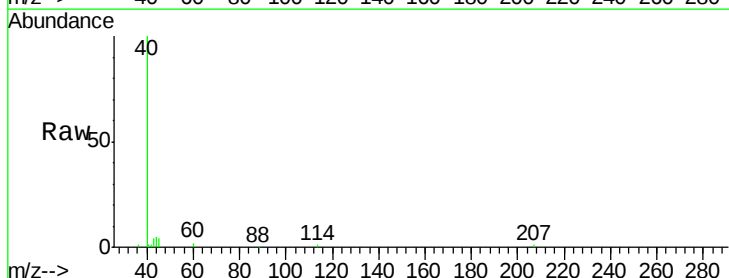
Tgt Ion: 88 Resp: 32

Ion Ratio Lower Upper

88 100

43 0.0 24.1 36.1#

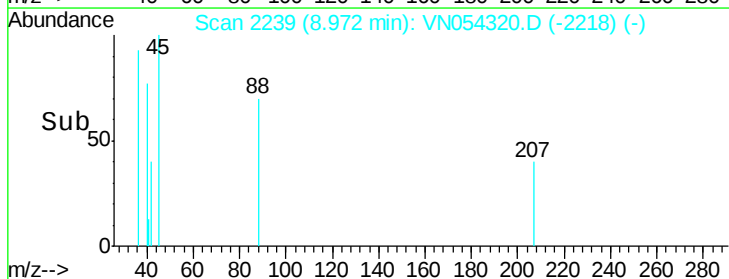
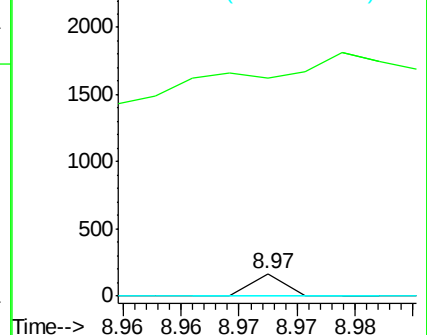
58 0.0 50.8 76.2#

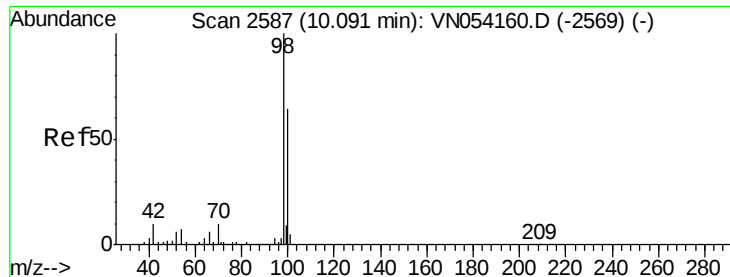


Abundance Ion 88.00 (87.70 to 88.70): V

Ion 43.00 (42.70 to 43.70): V

Ion 58.00 (57.70 to 58.70): V





#50

Toluene-d8

Concen: 52.345 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054320.D

Acq: 15 Mar 2019 20:05

Instrument :

MSVOA_N

ClientSampled :

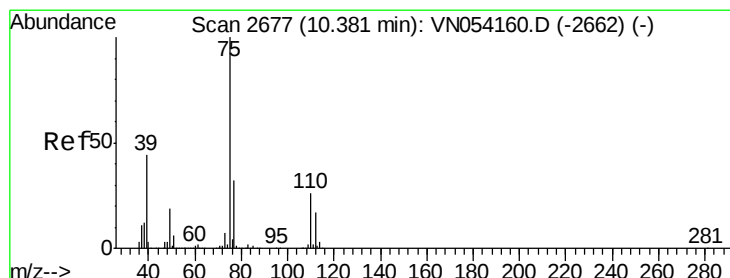
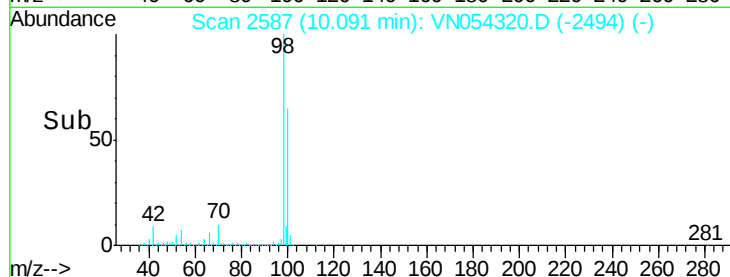
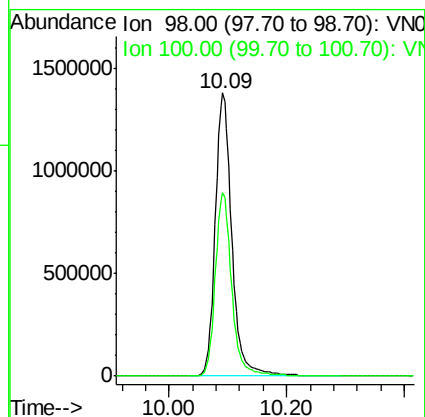
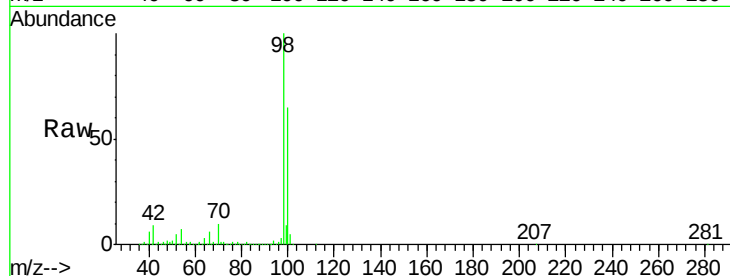
TW-7

Tot Ion: 98 Resp: 2703041

Ion Ratio Lower Upper

98 100

100 64.3 51.2 76.8



#53

t-1,3-Dichloropropene

Concen: 1.987 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN054320.D

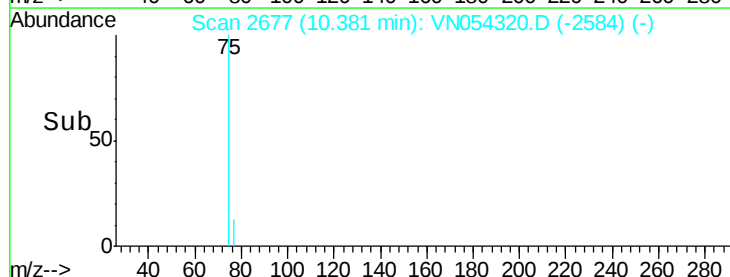
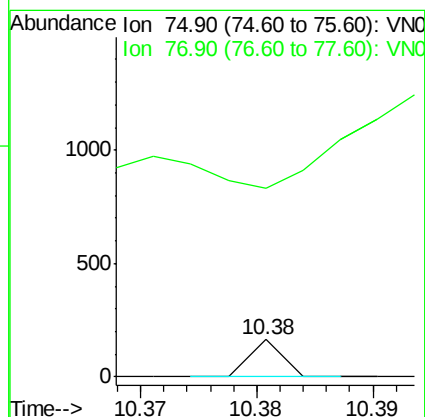
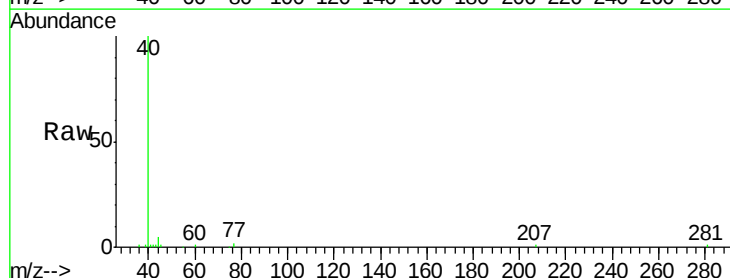
Acq: 15 Mar 2019 20:05

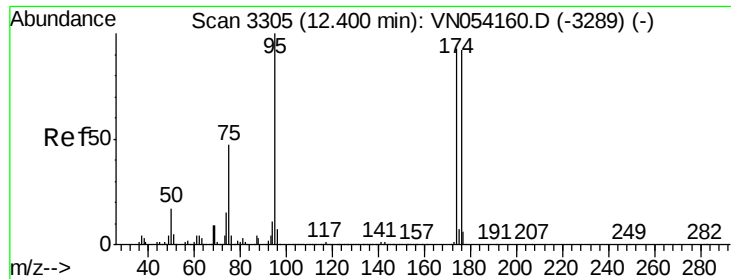
Tgt Ion: 75 Resp: 32

Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.8#





#62

4-Bromofluorobenzene

Concen: 56.577 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054320.D

Acq: 15 Mar 2019 20:05

Instrument :

MSVOA_N

ClientSampleId :

TW-7

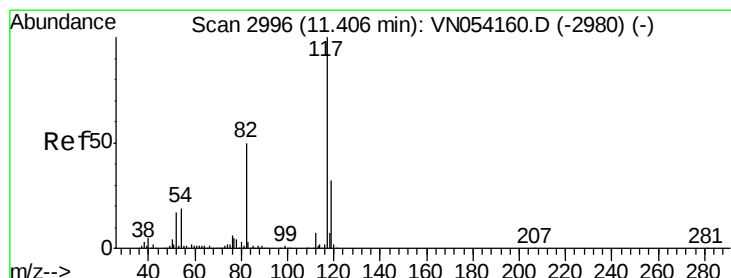
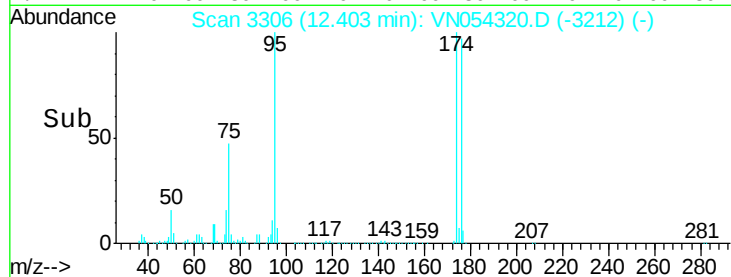
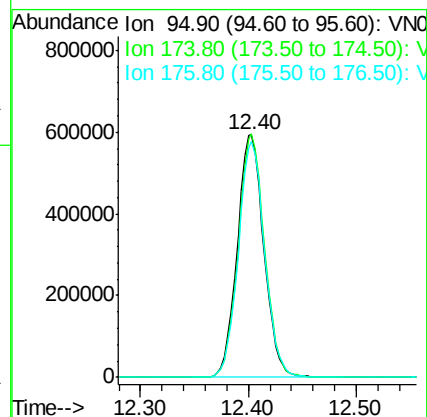
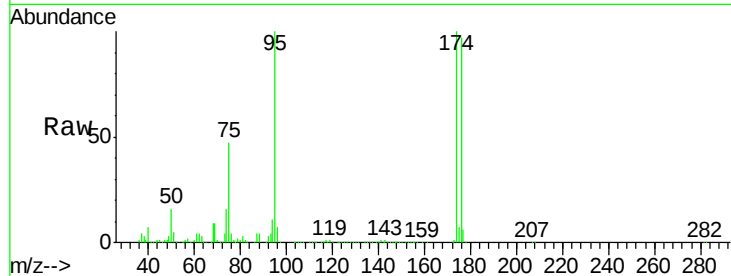
Tot Ion: 95 Resp: 1022271

Ion Ratio Lower Upper

95 100

174 99.0 0.0 191.0

176 96.1 0.0 187.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN054320.D

Acq: 15 Mar 2019 20:05

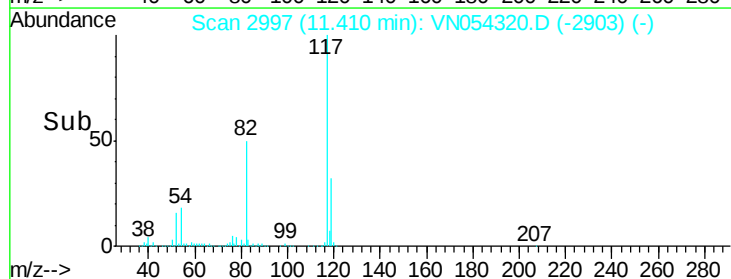
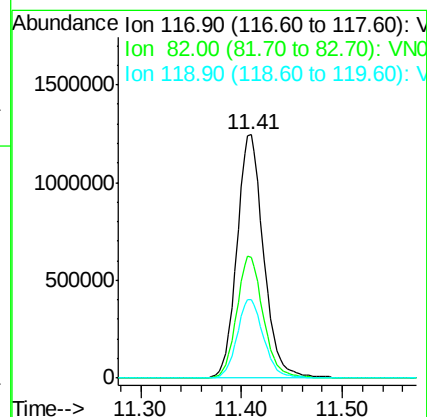
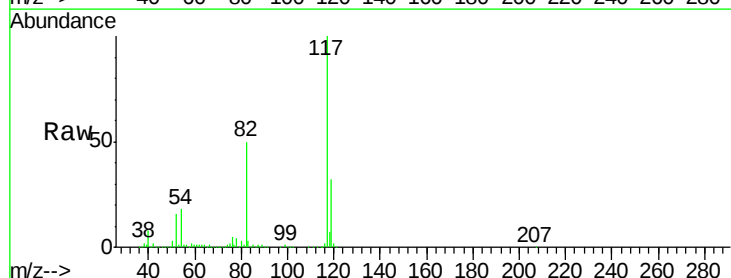
Tgt Ion: 117 Resp: 2289382

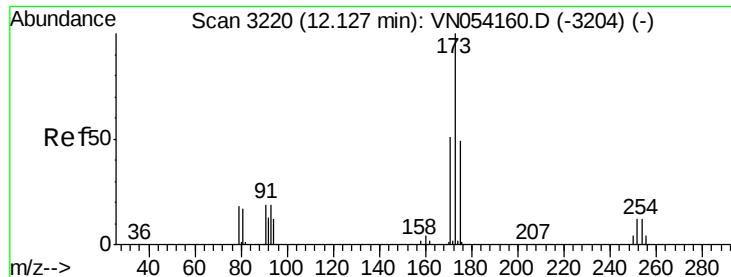
Ion Ratio Lower Upper

117 100

82 49.5 40.0 60.0

119 32.2 25.8 38.6





#71

Bromoform

Concen: 2.792 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN054320.D

Acq: 15 Mar 2019 20:05

Instrument :

MSVOA_N

ClientSampleId :

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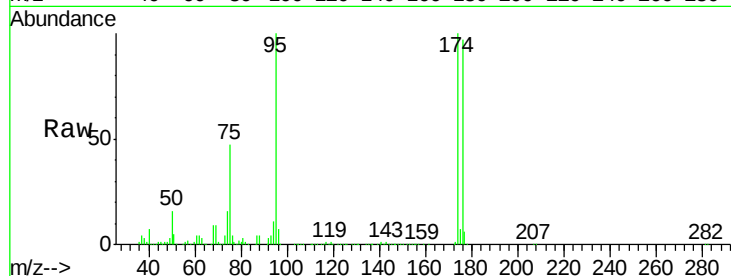
Tot Ion:173 Resp: 6442

Ion Ratio Lower Upper

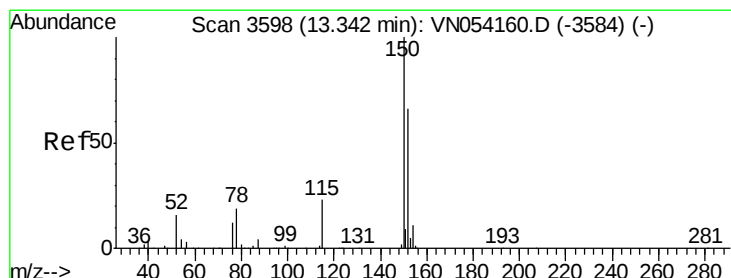
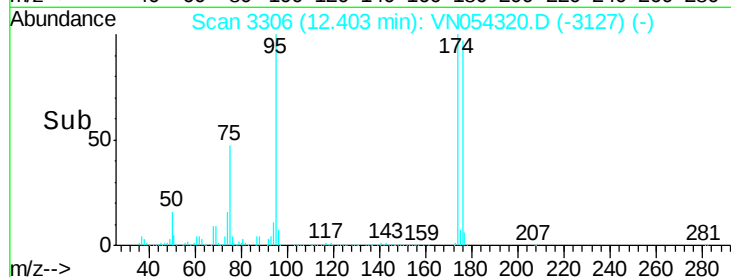
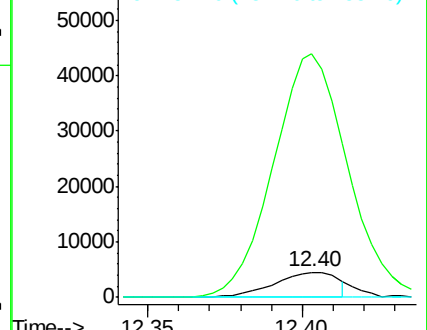
173 100

175 962.2 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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054320.D

Acq: 15 Mar 2019 20:05

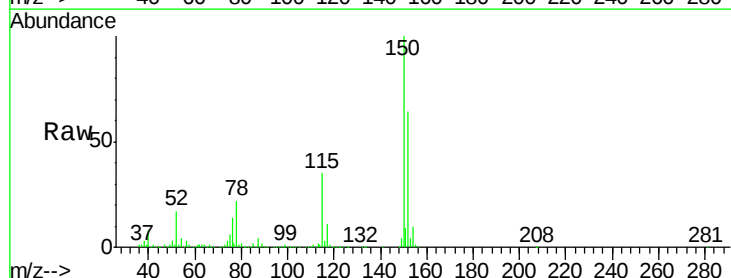
Tgt Ion:152 Resp: 940382

Ion Ratio Lower Upper

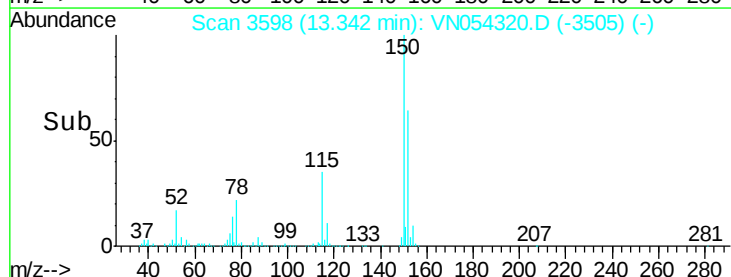
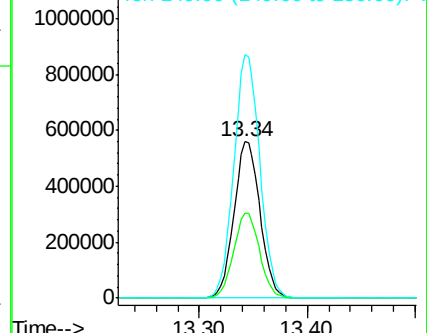
152 100

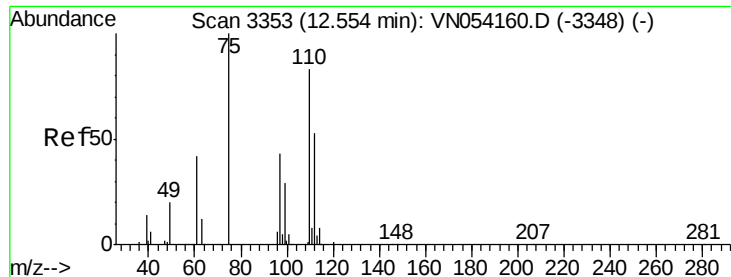
115 54.3 27.2 81.6

150 155.7 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





#76

1,2,3-Trichloropropane

Concen: 35.163 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054320.D

Acq: 15 Mar 2019 20:05

Instrument :

MSVOA_N

ClientSampleId :

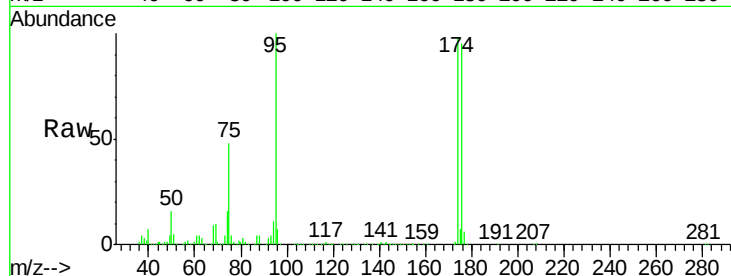
TW-7

Tot Ion: 75 Resp: 486254

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

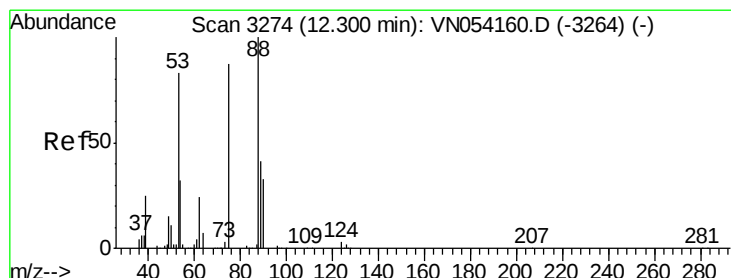
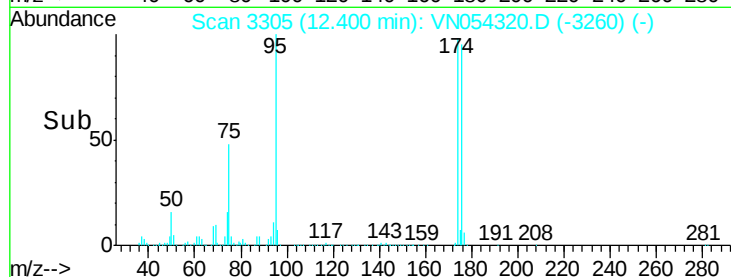
300000

200000

100000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 120.201 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054320.D

Acq: 15 Mar 2019 20:05

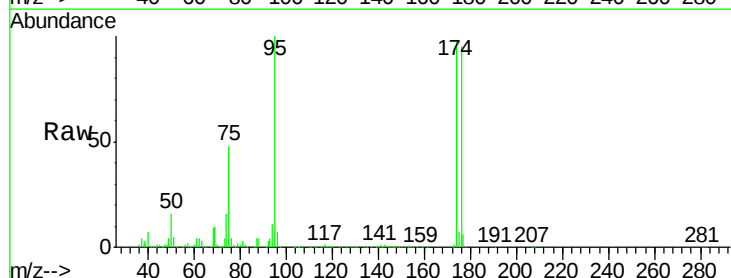
Tgt Ion: 75 Resp: 486254

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

12.40

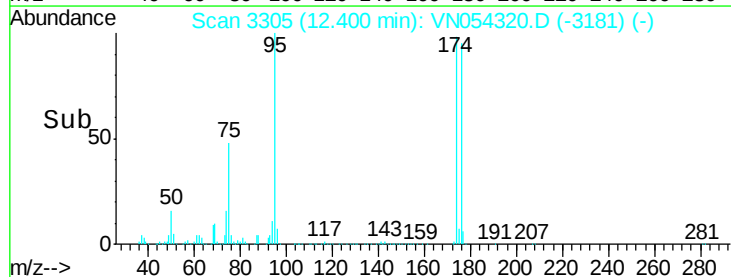
300000

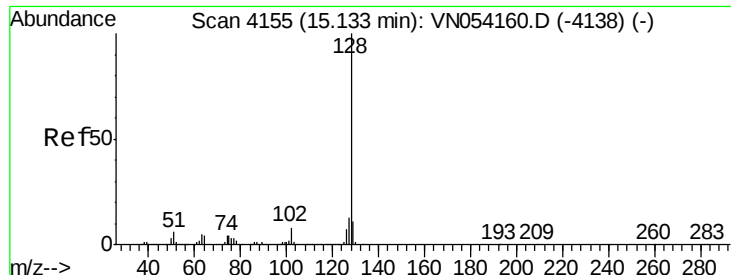
200000

100000

0

Time--> 12.30 12.40 12.50





#95

Naphthalene

Concen: 4.074 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054320.D

Acq: 15 Mar 2019 20:05

Instrument :

MSVOA_N

ClientSampleId :

TW-7

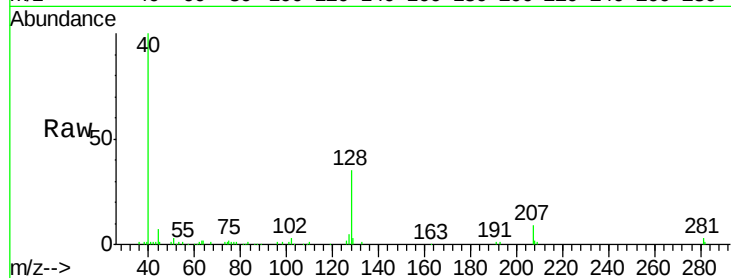
Tot Ion:128 Resp: 26761

Ion Ratio Lower Upper

128 100

127 14.1 10.1 15.1

129 10.2 8.7 13.1



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

