

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082318\
 Data File : VN050838.D
 Acq On : 23 Aug 2018 9:01
 Operator : MD\SY
 Sample : VN0823WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 24 01:06:21 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	681684	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1053899	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	902854	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	280438	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	419443	51.11	ug/l	0.00
Spiked Amount			Recovery	=	102.22%	
35) Dibromofluoromethane	7.59	113	412008	49.14	ug/l	0.00
Spiked Amount			Recovery	=	98.28%	
50) Toluene-d8	10.09	98	1480154	47.22	ug/l	0.00
Spiked Amount			Recovery	=	94.44%	
62) 4-Bromofluorobenzene	12.40	95	384365	36.90	ug/l	0.00
Spiked Amount			Recovery	=	73.80%	

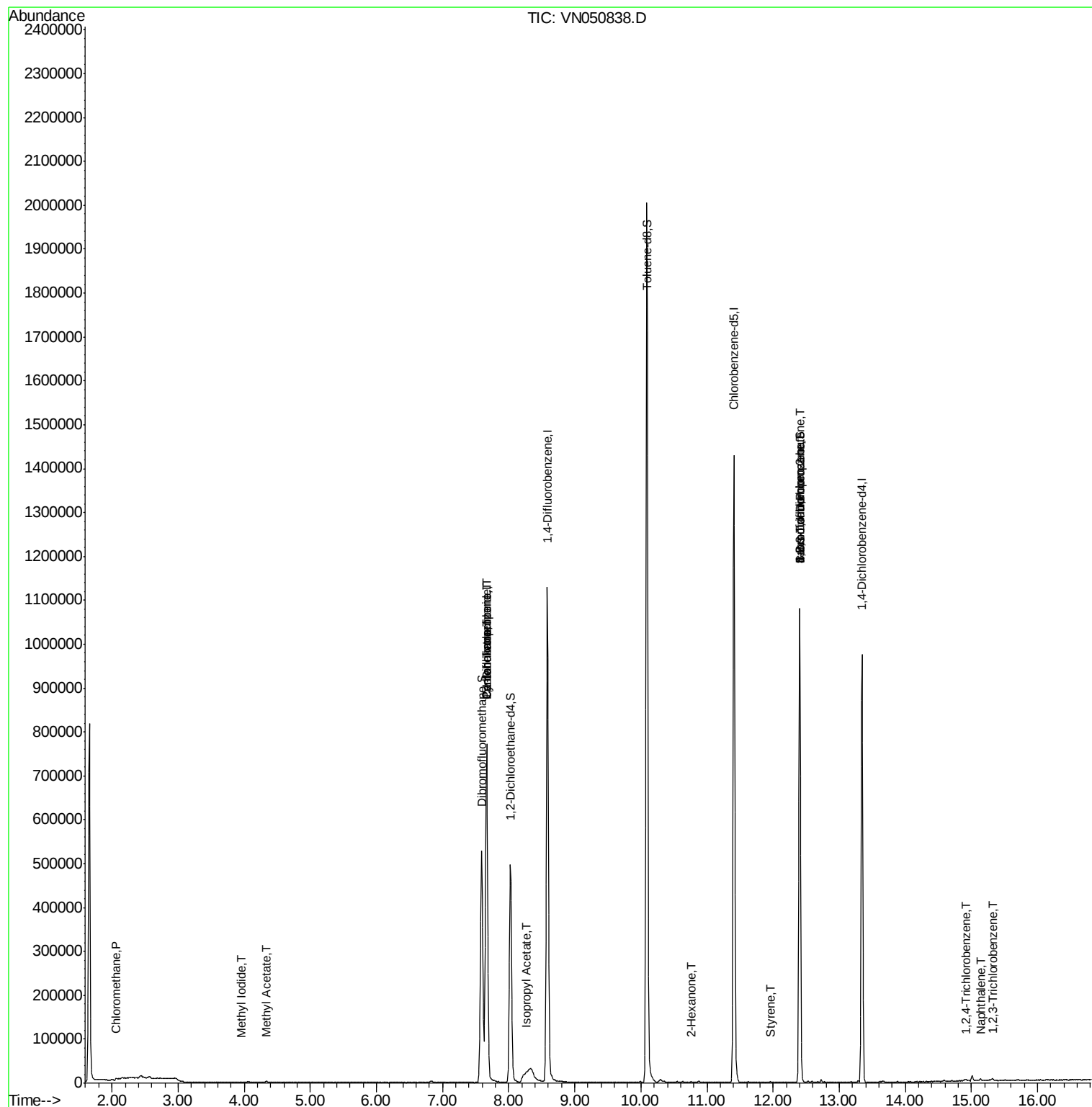
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2403	0.21	ug/l	93
5) Bromomethane	2.57	94	2607	Below	Cal	94
10) Methyl Iodide	3.95	142	681	6.42	ug/l #	43
16) Acetone	3.83	43	1122	Below	Cal	97
18) Methyl Acetate	4.34	43	4207	0.54	ug/l #	90
31) Cyclohexane	7.66	56	11323	1.27	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	44030	3.54	ug/l #	49
38) Carbon Tetrachloride	7.67	117	58953	4.69	ug/l #	18
43) Isopropyl Acetate	8.25	43	21625	1.76	ug/l #	58
59) 2-Hexanone	10.76	43	1780	0.36	ug/l	71
70) Styrene	11.97	104	673	1.30	ug/l #	58
71) Bromoform	12.40	173	2544	0.43	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.50	83	312	Below	Cal #	59
76) 1,2,3-Trichloropropane	12.40	75	180551	36.76	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	180551	124.26	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.92	180	1722	4.38	ug/l	91
94) Hexachlorobutadiene	15.01	225	2794	Below	Cal	95
95) Naphthalene	15.14	128	4095	5.73	ug/l #	89
96) 1,2,3-Trichlorobenzene	15.32	180	2195	3.70	ug/l	94

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

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Quant Title : SW846 8260
QLast Update : Wed Aug 22 05:38:12 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN050838.D

Acq: 23 Aug 2018 9:01

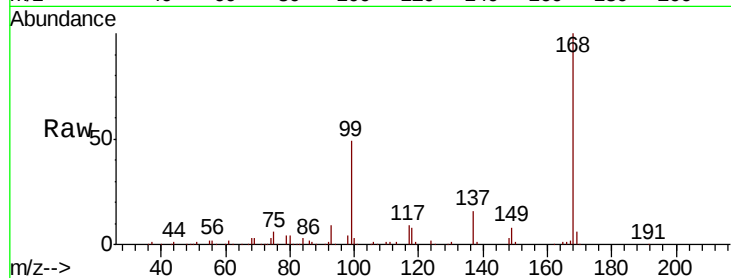
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 681684

Ion Ratio Lower Upper

168 100

99 49.0 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

300000

250000

200000

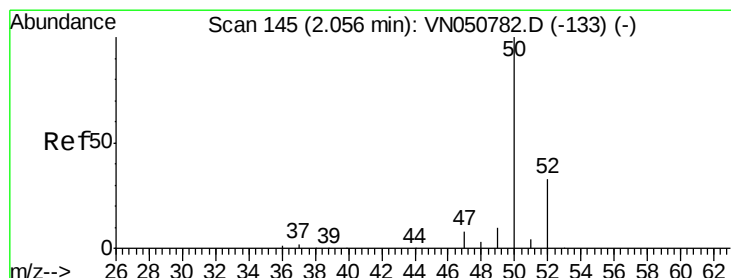
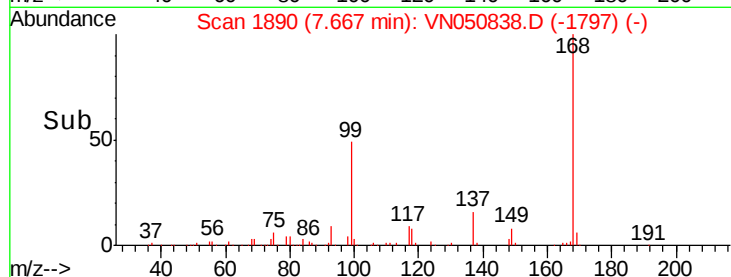
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.21 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050838.D

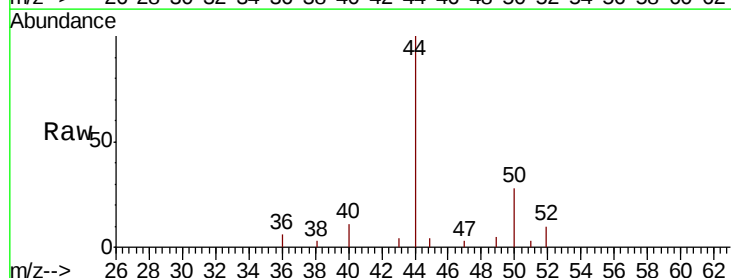
Acq: 23 Aug 2018 9:01

Tgt Ion: 50 Resp: 2403

Ion Ratio Lower Upper

50 100

52 36.6 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.06

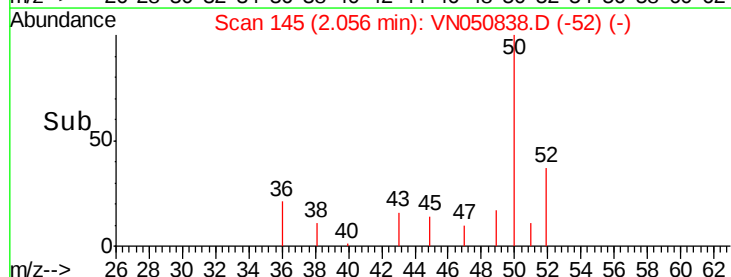
1500

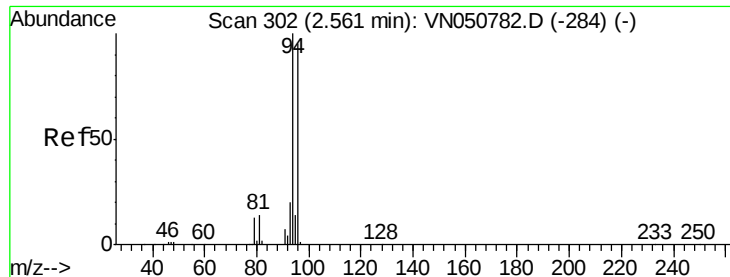
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050838.D

Acq: 23 Aug 2018 9:01

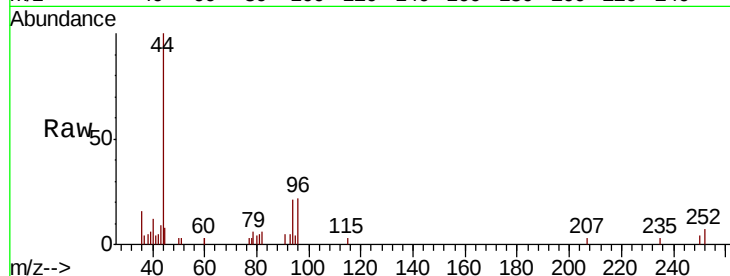
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 94 Resp: 2607

Ion Ratio Lower Upper

94 100

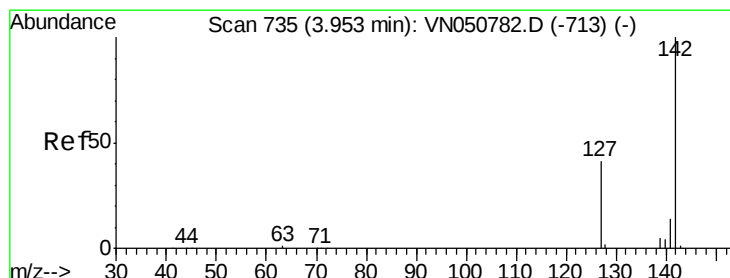
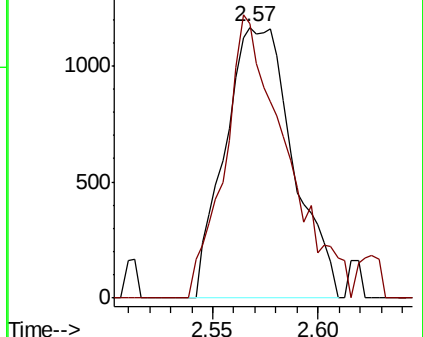
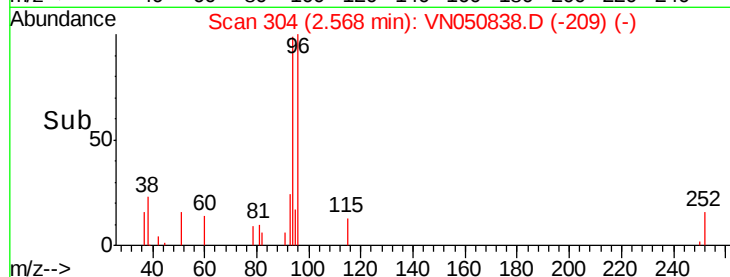
96 101.3 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN050838.D (-209) (-)

Ion 95.90 (95.60 to 96.60): VN050838.D (-209) (-)

Time-->



#10

Methyl Iodide

Concen: 6.42 ug/l

RT: 3.95 min Scan# 734

Delta R.T. -0.00 min

Lab File: VN050838.D

Acq: 23 Aug 2018 9:01

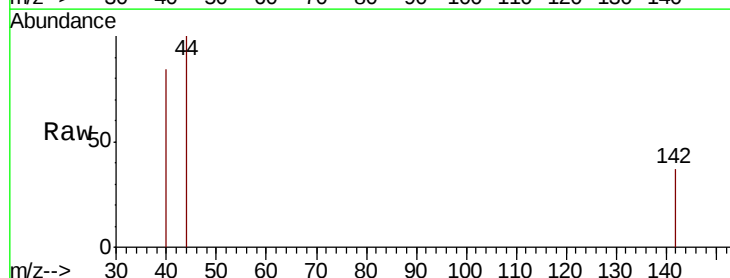
Tgt Ion: 142 Resp: 681

Ion Ratio Lower Upper

142 100

127 0.0 31.7 47.5#

141 0.0 11.4 17.0#

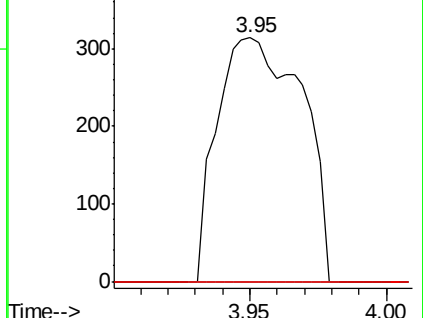
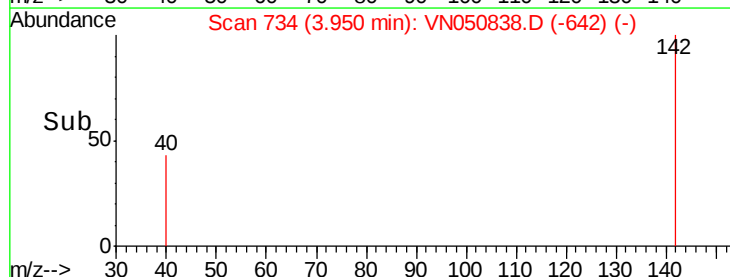


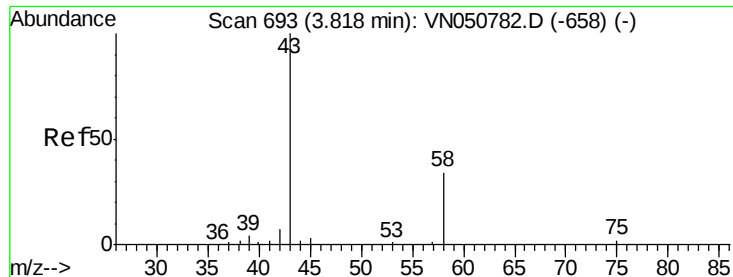
Abundance Ion 141.80 (141.50 to 142.50): VN050838.D (-642) (-)

Ion 126.80 (126.50 to 127.50): VN050838.D (-642) (-)

Ion 140.80 (140.50 to 141.50): VN050838.D (-642) (-)

Time-->





#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN050838.D

Acq: 23 Aug 2018 9:01

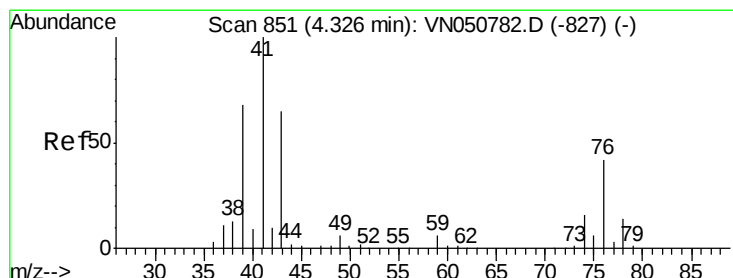
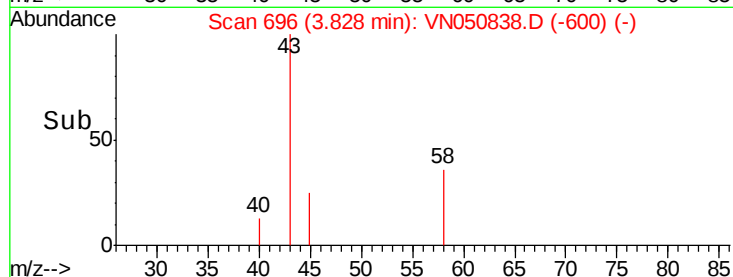
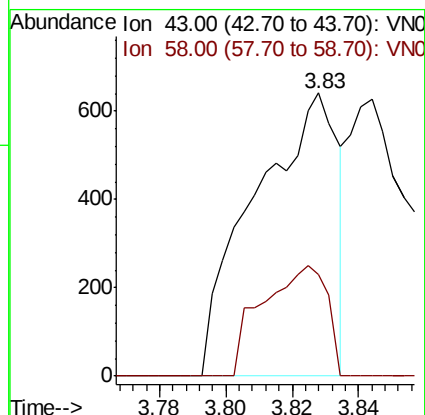
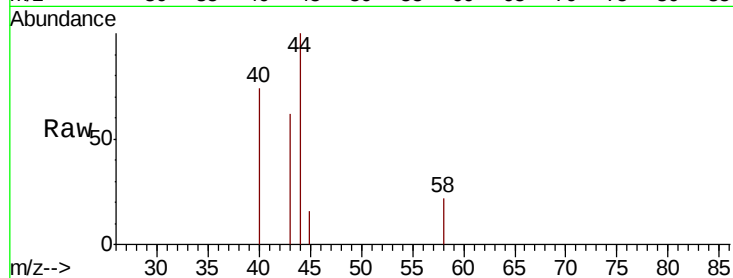
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 1122

Ion Ratio Lower Upper

43 100

58 35.7 27.2 40.8



#18

Methyl Acetate

Concen: 0.54 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN050838.D

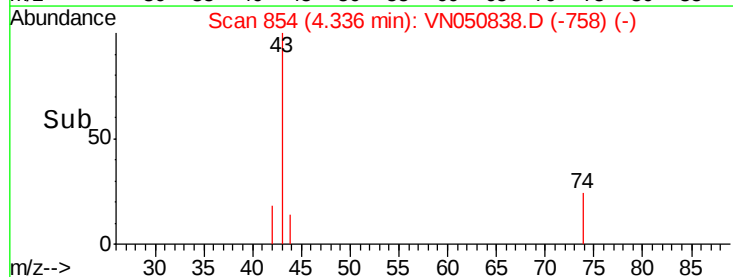
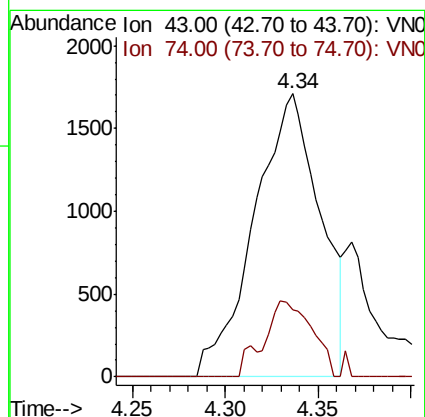
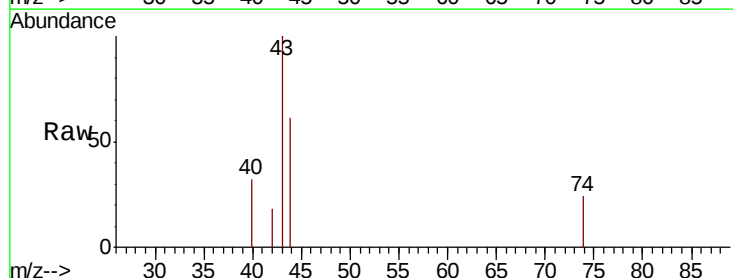
Acq: 23 Aug 2018 9:01

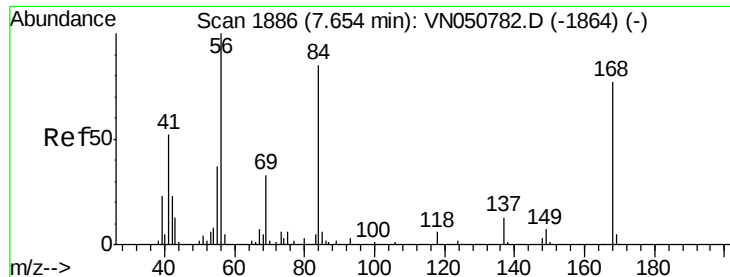
Tgt Ion: 43 Resp: 4207

Ion Ratio Lower Upper

43 100

74 19.8 19.8 29.8#

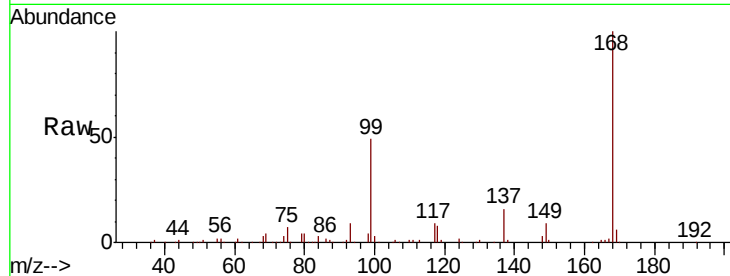




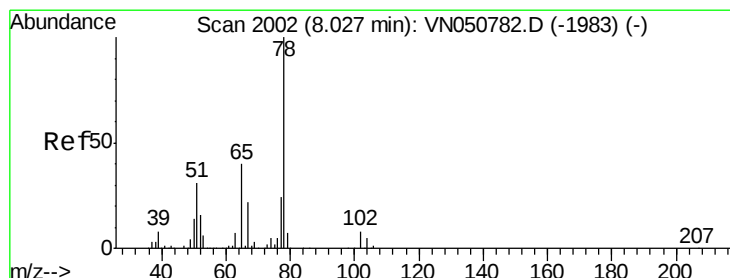
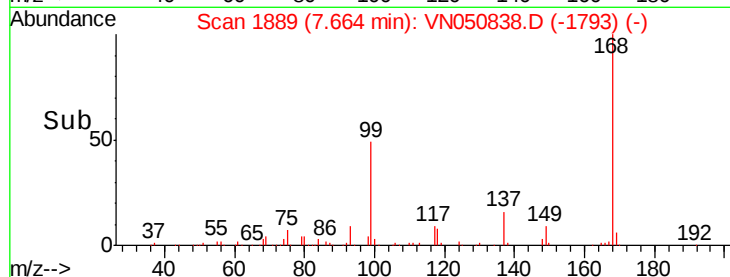
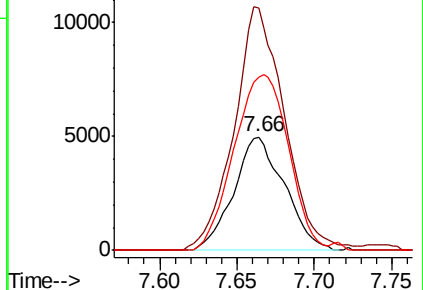
#31
Cyclohexane
Concen: 1.27 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN050838.D
Acq: 23 Aug 2018 9:01

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 11323
Ion Ratio Lower Upper
56 100
69 209.8 26.2 39.4#
84 153.1 68.3 102.5#

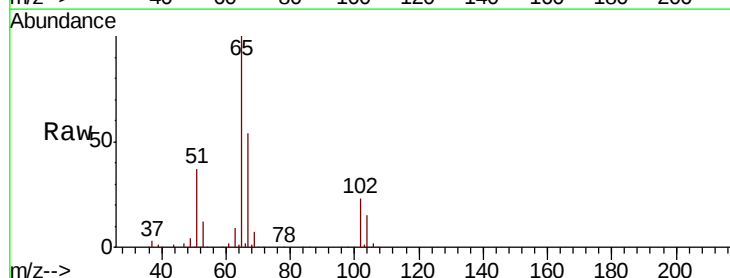


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

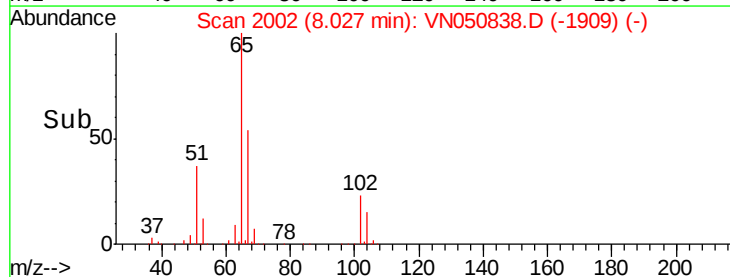
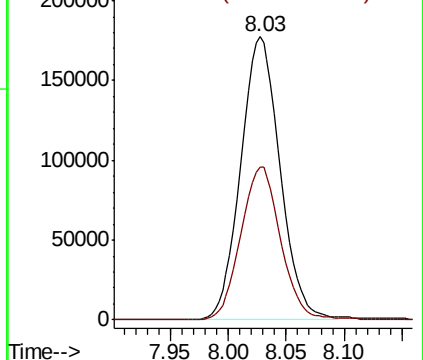


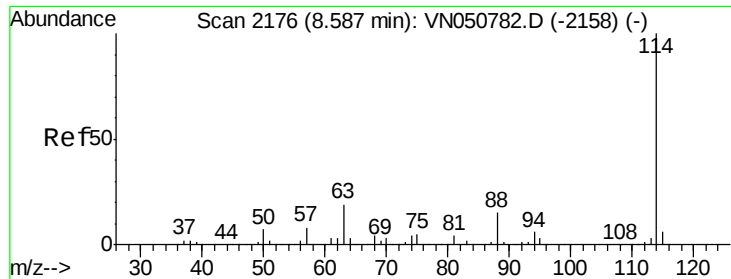
#33
1,2-Dichloroethane-d4
Concen: 51.11 ug/l
RT: 8.03 min Scan# 2002
Delta R.T. 0.00 min
Lab File: VN050838.D
Acq: 23 Aug 2018 9:01

Tgt Ion: 65 Resp: 419443
Ion Ratio Lower Upper
65 100
67 55.0 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC

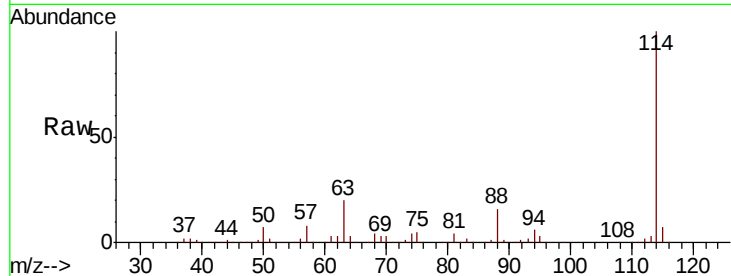




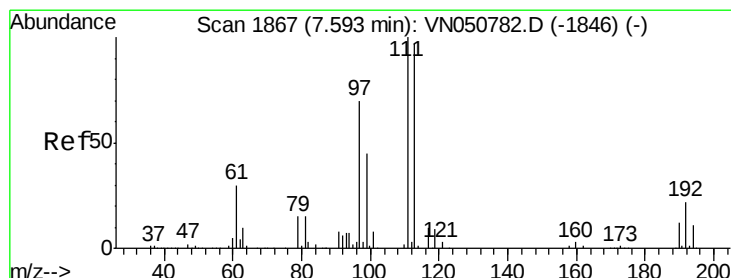
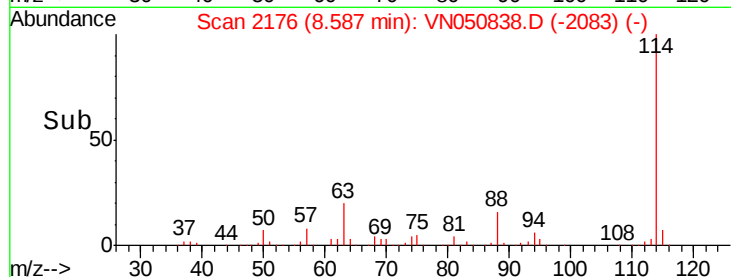
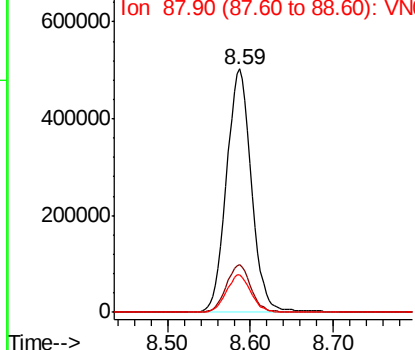
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050838.D
 Acq: 23 Aug 2018 9:01

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 1053899
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 38.6
 88 15.5 0.0 30.6

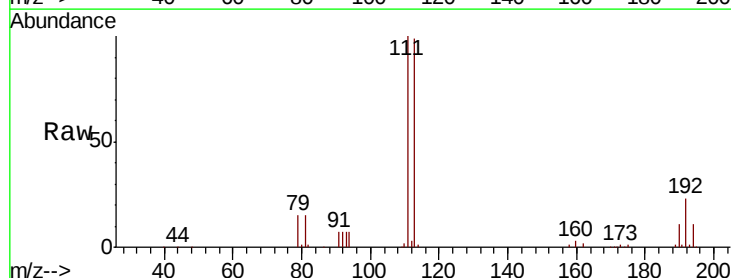


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

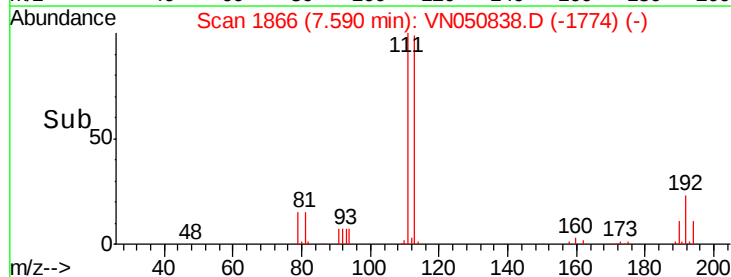
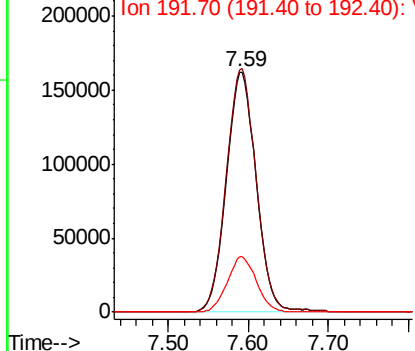


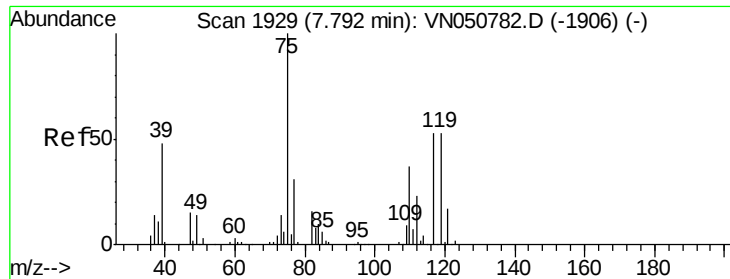
#35
 Dibromofluoromethane
 Concen: 49.14 ug/l
 RT: 7.59 min Scan# 1866
 Delta R.T. -0.00 min
 Lab File: VN050838.D
 Acq: 23 Aug 2018 9:01

Tgt Ion:113 Resp: 412008
 Ion Ratio Lower Upper
 113 100
 111 101.8 82.6 123.8
 192 22.7 18.0 27.0



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

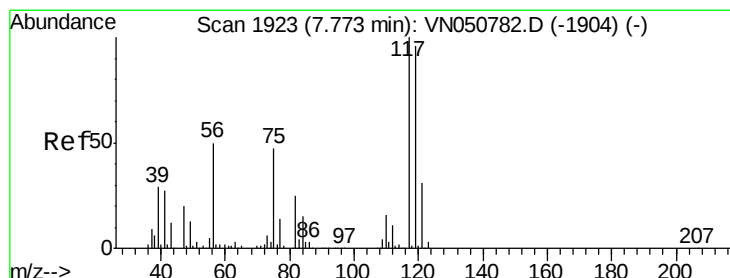
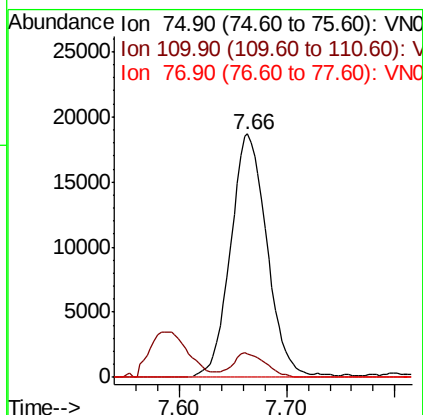
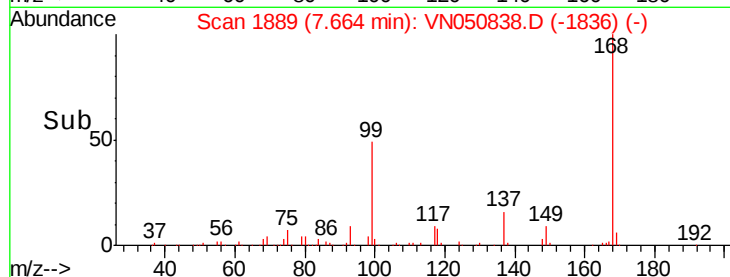
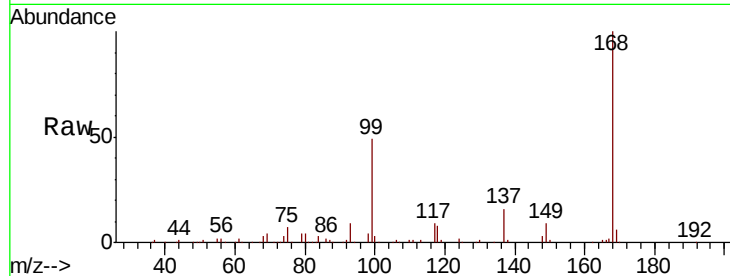




#36
 1,1-Dichloropropene
 Concen: 3.54 ug/l
 RT: 7.66 min Scan# 1889
 Delta R.T. -0.13 min
 Lab File: VN050838.D
 Acq: 23 Aug 2018 9:01

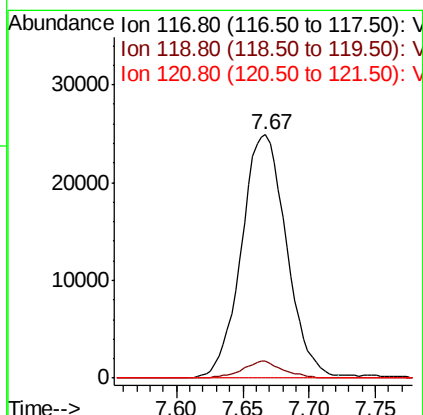
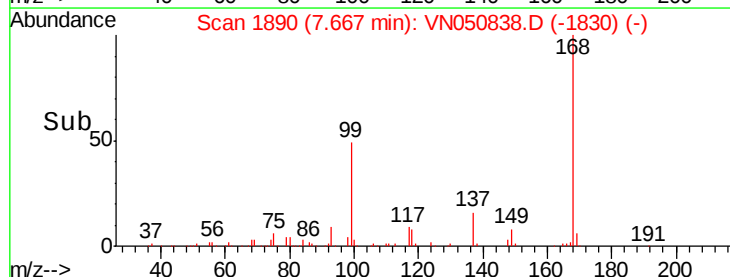
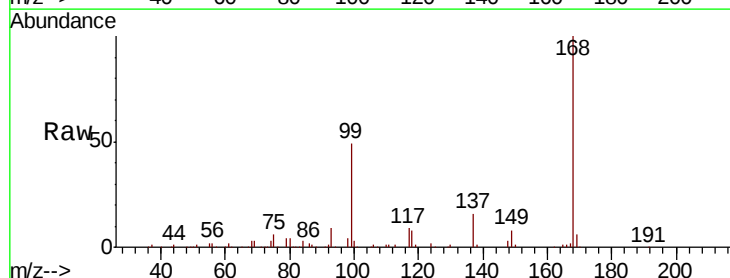
Instrument :
 MSVOA_N
 ClientSampled :

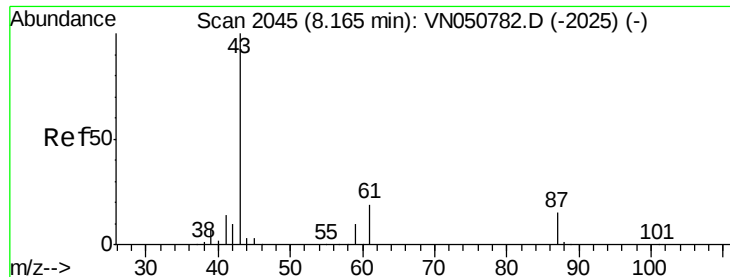
Tot Ion	75	110	77	Resp	Lower	Upper
44030	100	9.0	0.0		18.1	54.4#
					24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 4.69 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN050838.D
 Acq: 23 Aug 2018 9:01

Tgt Ion	117	119	121	Resp	Lower	Upper
58953	100	6.8	0.0		76.3	114.5#
					24.6	36.8#





#43

Isopropyl Acetate

Concen: 1.76 ug/l

RT: 8.25 min Scan# 2072

Delta R.T. 0.09 min

Lab File: VN050838.D

Acq: 23 Aug 2018 9:01

Instrument :

MSVOA_N

ClientSampleId :

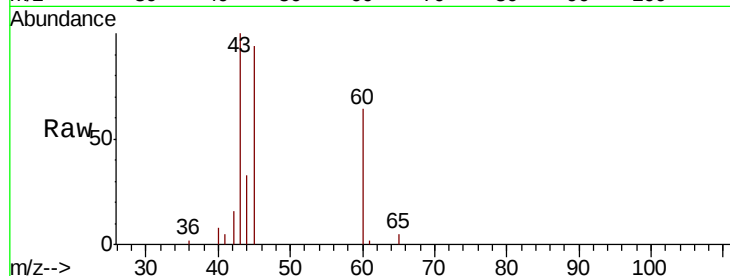
Tot Ion: 43 Resp: 21625

Ion Ratio Lower Upper

43 100

61 0.0 17.5 26.3#

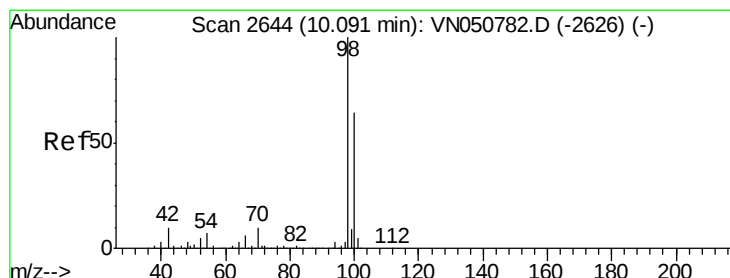
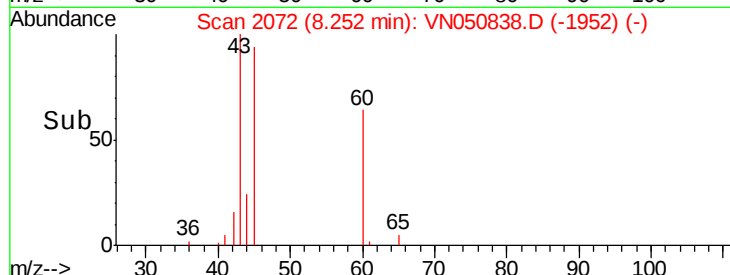
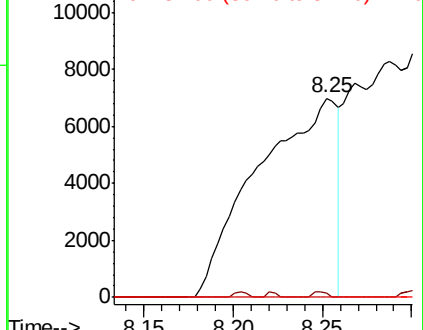
87 0.0 11.3 16.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 47.22 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN050838.D

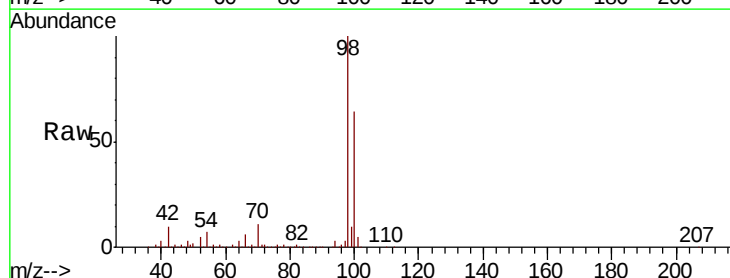
Acq: 23 Aug 2018 9:01

Tgt Ion: 98 Resp: 1480154

Ion Ratio Lower Upper

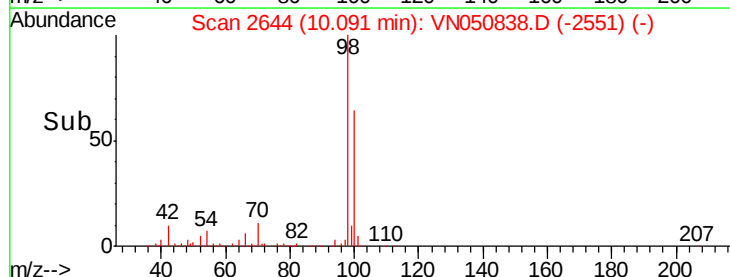
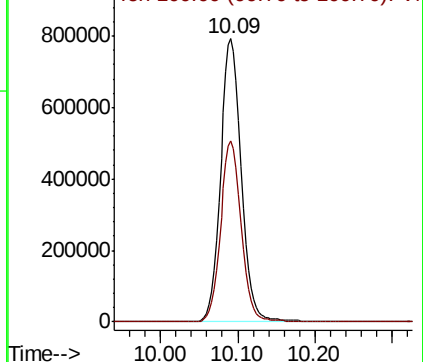
98 100

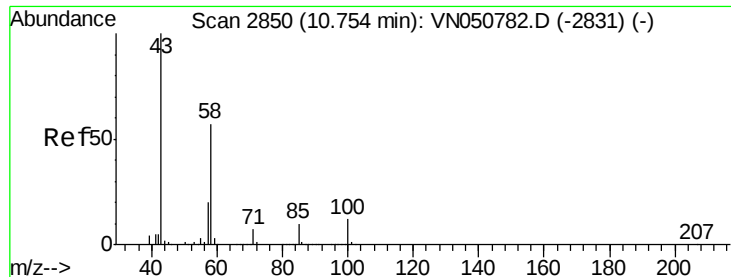
100 63.7 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

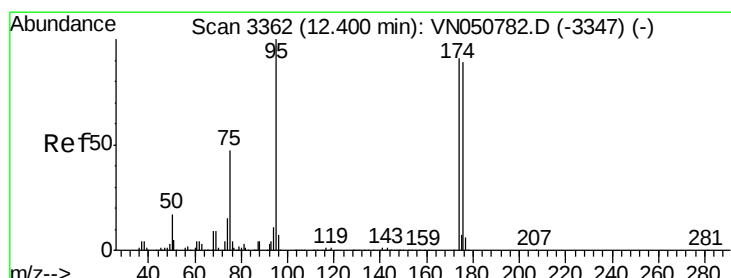
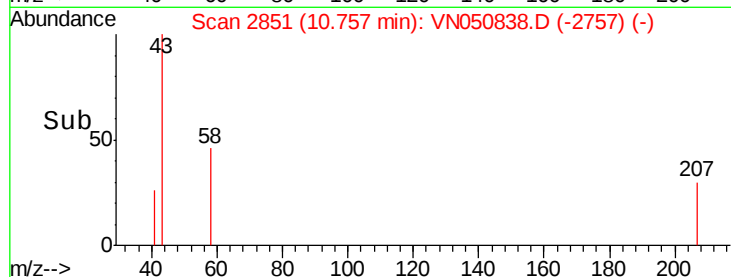
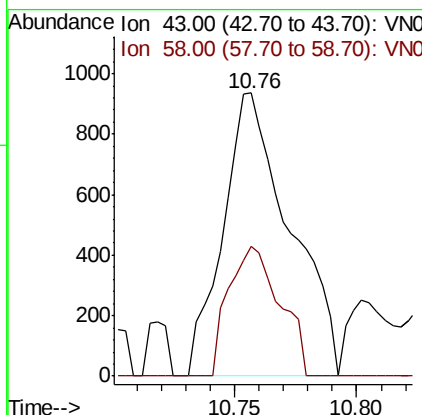
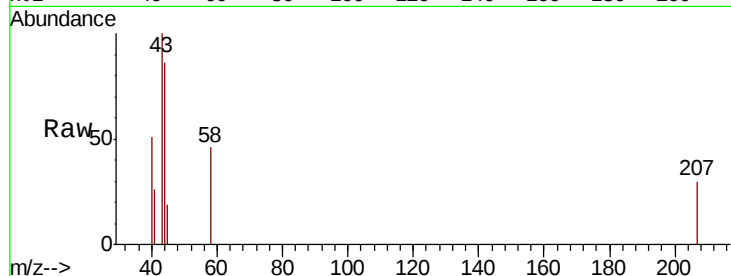




#59
2-Hexanone
Concen: 0.36 ug/l
RT: 10.76 min Scan# 2851
Delta R.T. 0.00 min
Lab File: VN050838.D
Acq: 23 Aug 2018 9:01

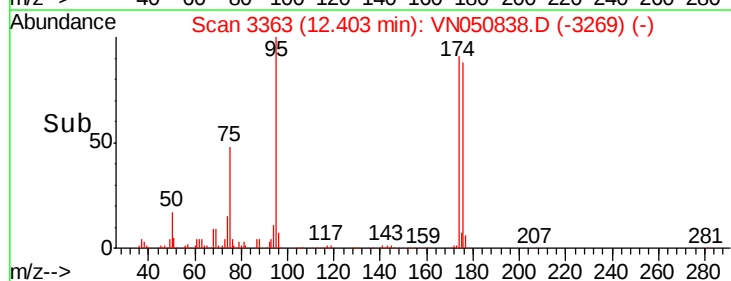
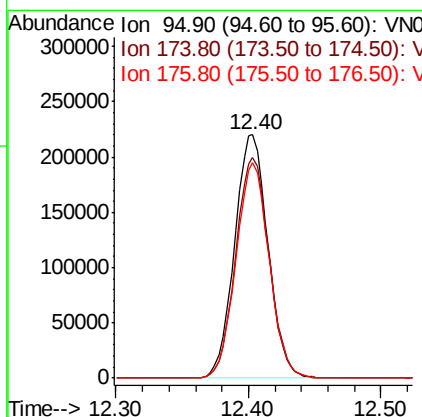
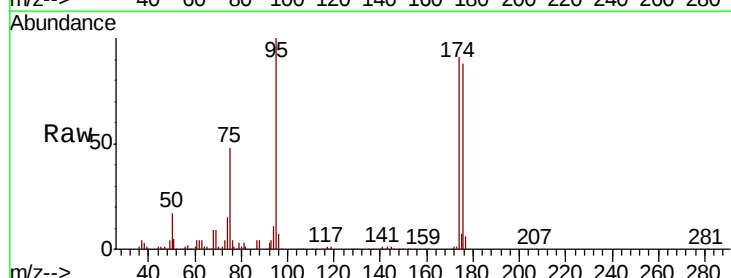
Instrument :
MSVOA_N
ClientSampleId :

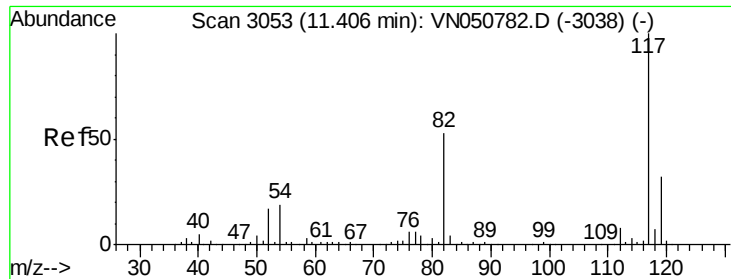
Tot Ion: 43 Resp: 1780
Ion Ratio Lower Upper
43 100
58 35.3 28.3 85.0



#62
4-Bromofluorobenzene
Concen: 36.90 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050838.D
Acq: 23 Aug 2018 9:01

Tgt Ion: 95 Resp: 384365
Ion Ratio Lower Upper
95 100
174 91.4 0.0 183.0
176 88.0 0.0 178.8





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3053

Delta R.T. 0.00 min

Lab File: VN050838.D

Acq: 23 Aug 2018 9:01

Instrument :

MSVOA_N

ClientSampled :

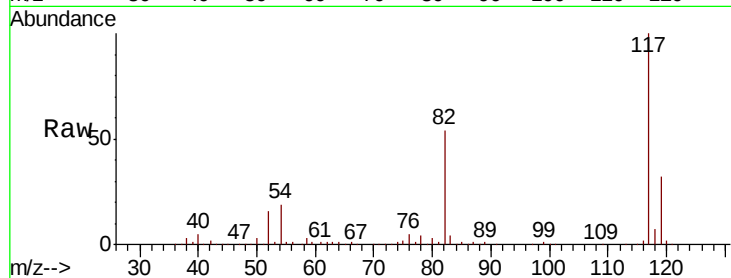
Tot Ion:117 Resp: 902854

Ion Ratio Lower Upper

117 100

82 53.6 42.6 64.0

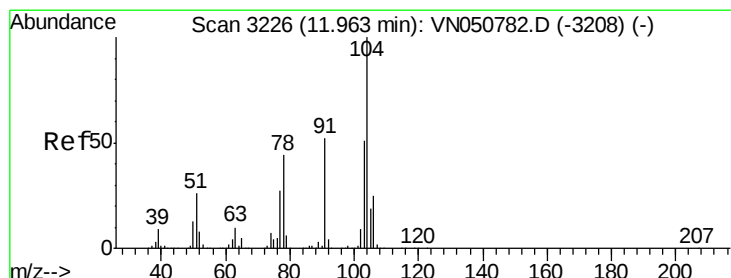
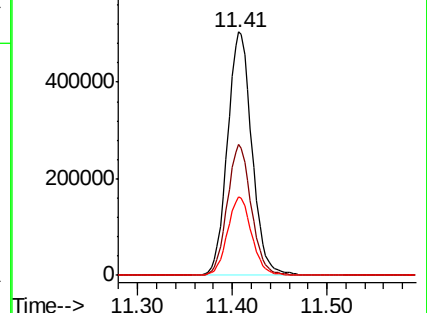
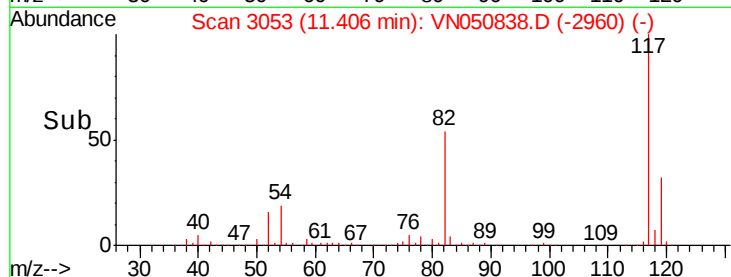
119 32.5 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): V



#70

Styrene

Concen: 1.30 ug/l

RT: 11.97 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VN050838.D

Acq: 23 Aug 2018 9:01

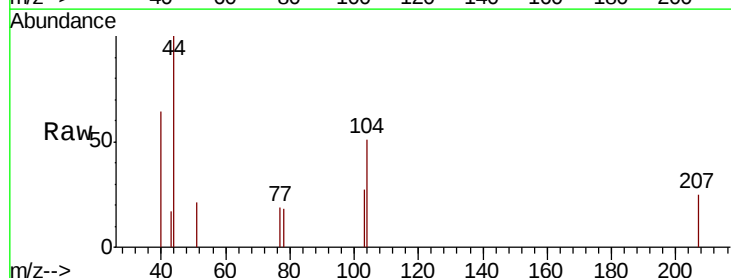
Tgt Ion:104 Resp: 673

Ion Ratio Lower Upper

104 100

78 14.7 38.2 57.4#

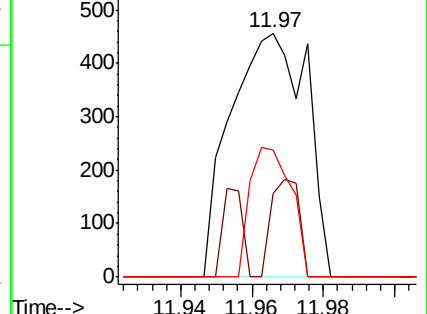
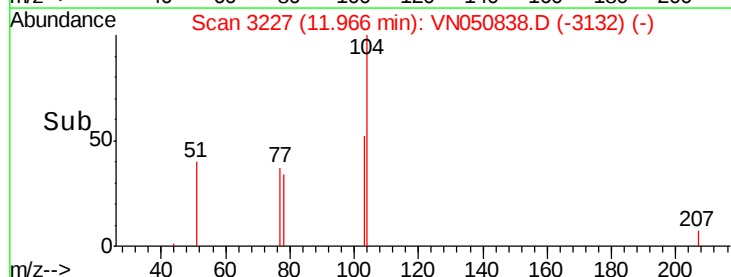
103 28.8 44.4 66.6#

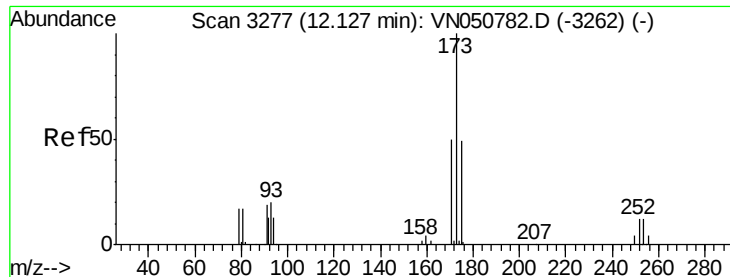


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN0

Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 0.43 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. 0.27 min

Lab File: VN050838.D

Acq: 23 Aug 2018 9:01

Instrument :

MSVOA_N

ClientSampleId :

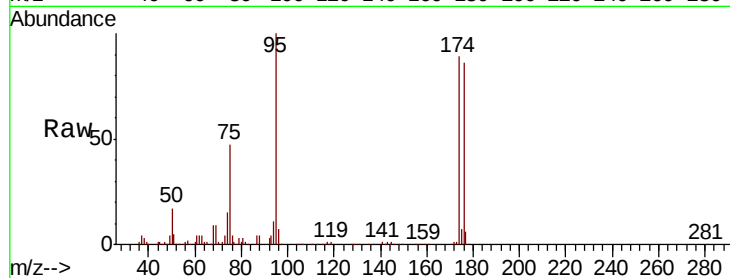
Tot Ion:173 Resp: 2544

Ion Ratio Lower Upper

173 100

175 850.1 24.4 73.4#

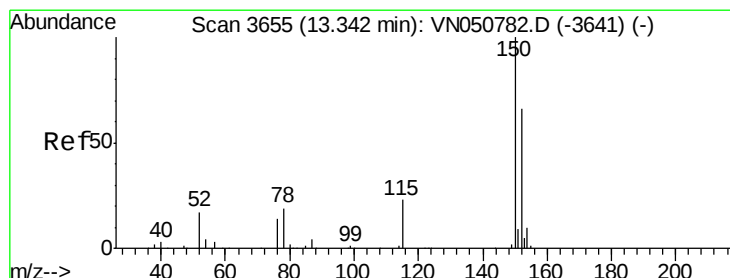
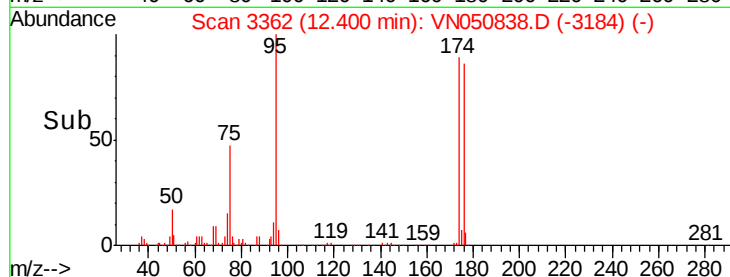
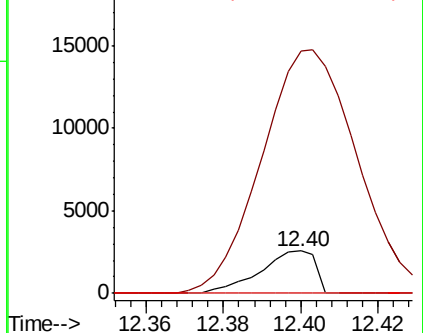
254 0.0 0.1 0.1#



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: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050838.D

Acq: 23 Aug 2018 9:01

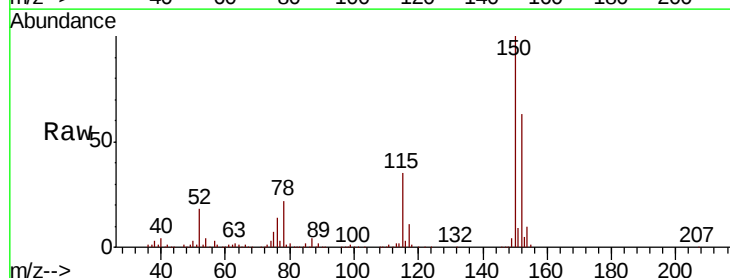
Tgt Ion:152 Resp: 280438

Ion Ratio Lower Upper

152 100

115 56.0 27.8 83.4

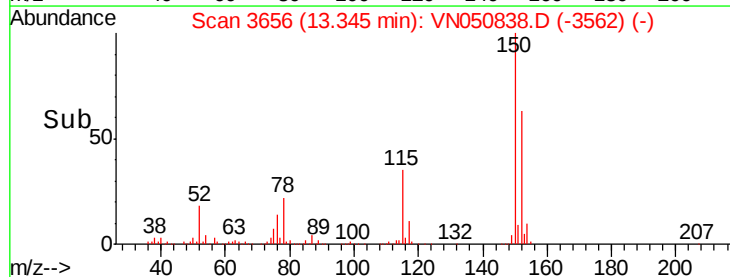
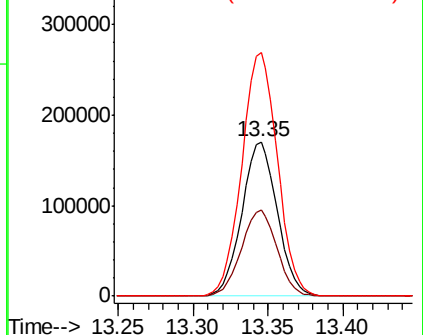
150 159.3 0.0 351.4

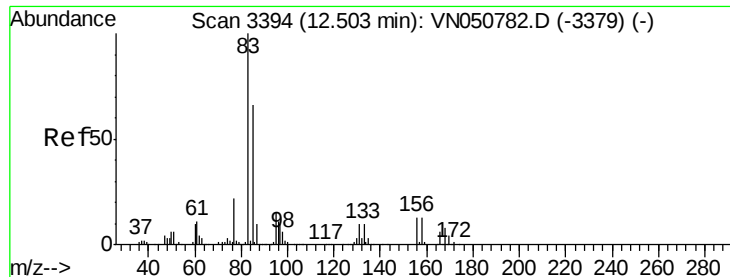


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3394

Delta R.T. 0.00 min

Lab File: VN050838.D

Acq: 23 Aug 2018 9:01

Instrument :

MSVOA_N

ClientSampled :

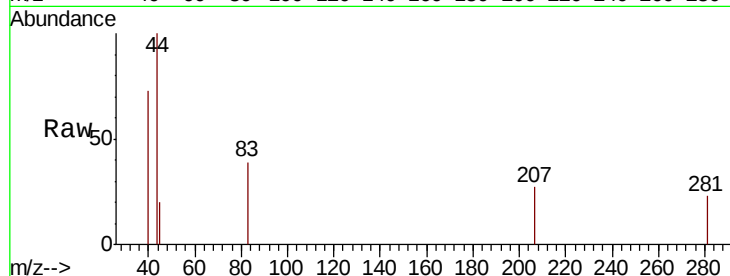
Tot Ion: 83 Resp: 312

Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.9#

85 30.4 31.9 95.7#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0

12.50

300

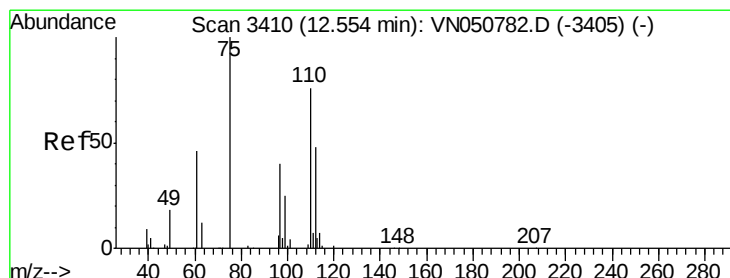
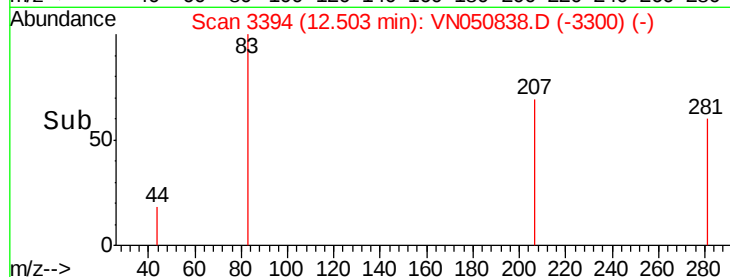
200

100

0

12.48 12.50 12.52

Time-->



#76

1,2,3-Trichloropropane

Concen: 36.76 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050838.D

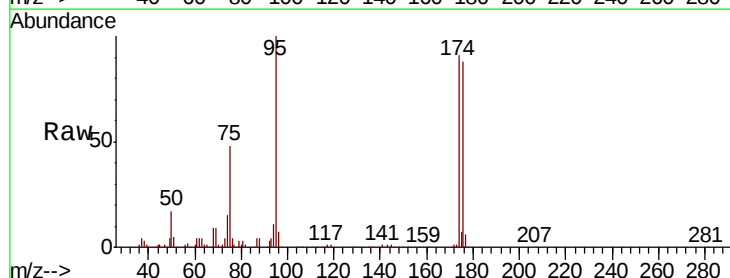
Acq: 23 Aug 2018 9:01

Tgt Ion: 75 Resp: 180551

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

120000

100000

80000

60000

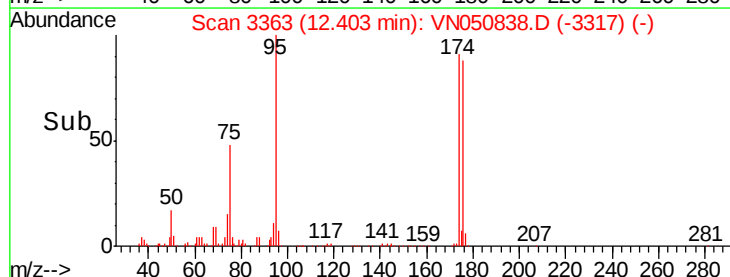
40000

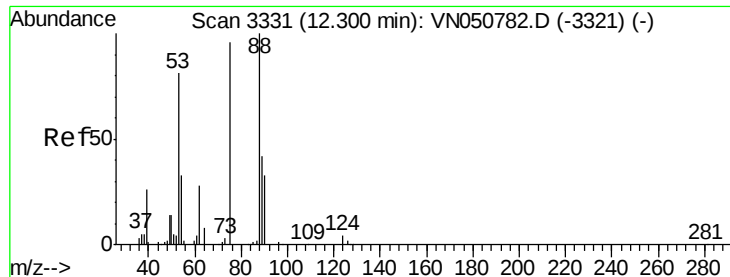
20000

0

12.35 12.40 12.45 12.50

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 124.26 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050838.D

Acq: 23 Aug 2018 9:01

Instrument :

MSVOA_N

ClientSampled :

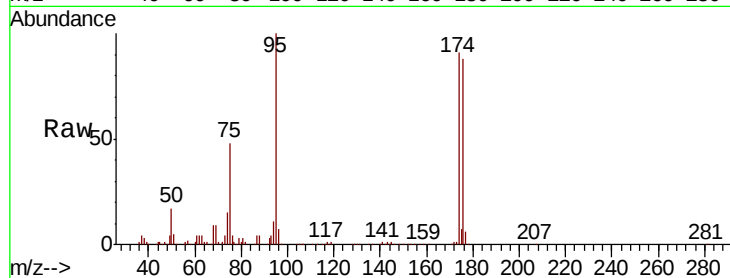
Tot Ion: 75 Resp: 180551

Ion Ratio Lower Upper

75 100

53 0.1 68.9 103.3#

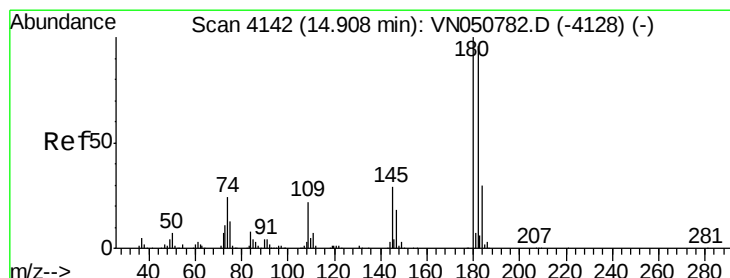
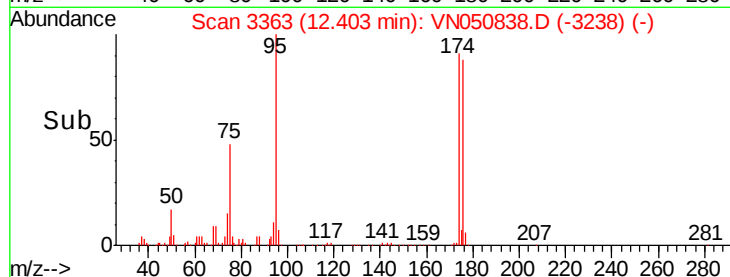
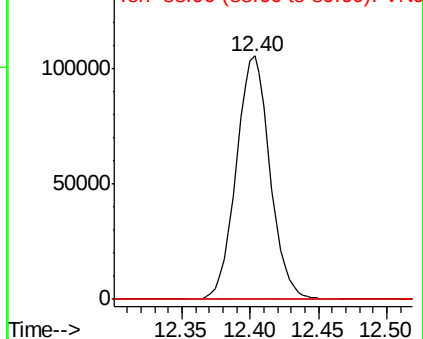
89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#93

1,2,4-Trichlorobenzene

Concen: 4.38 ug/l

RT: 14.92 min Scan# 4145

Delta R.T. 0.01 min

Lab File: VN050838.D

Acq: 23 Aug 2018 9:01

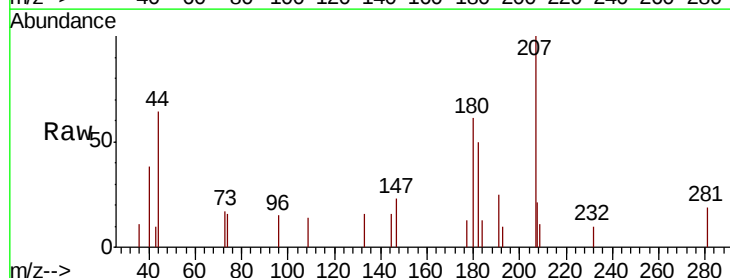
Tgt Ion: 180 Resp: 1722

Ion Ratio Lower Upper

180 100

182 90.1 48.2 144.6

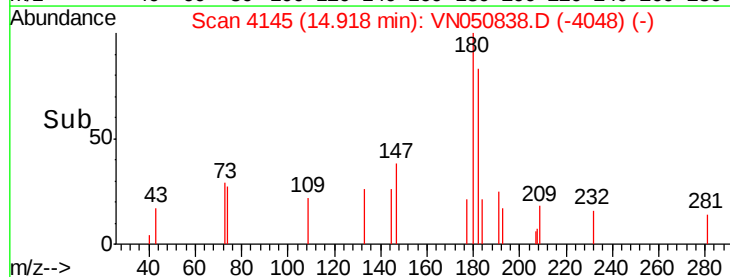
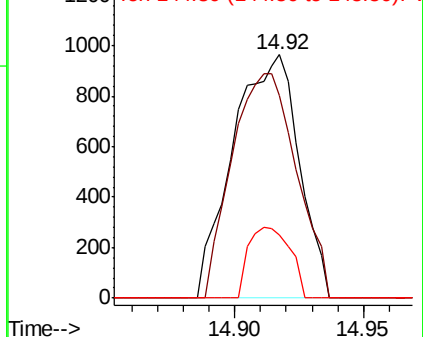
145 18.3 14.1 42.2

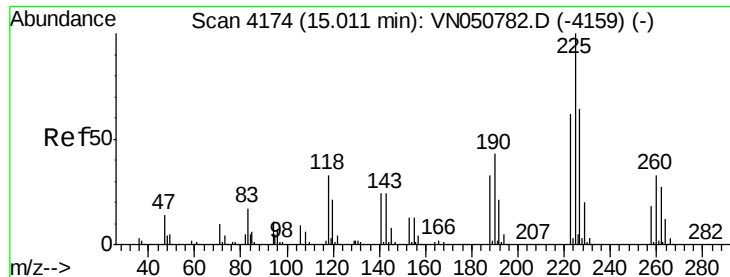


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4174

Delta R.T. 0.00 min

Lab File: VN050838.D

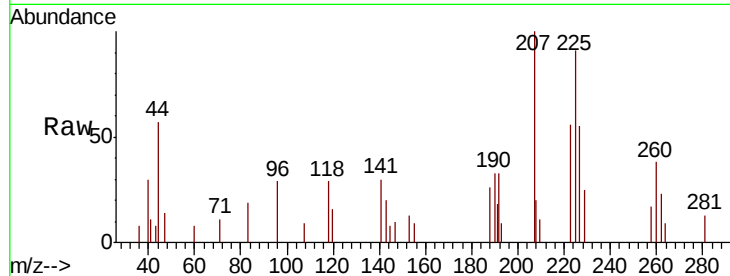
Acq: 23 Aug 2018 9:01

Instrument :

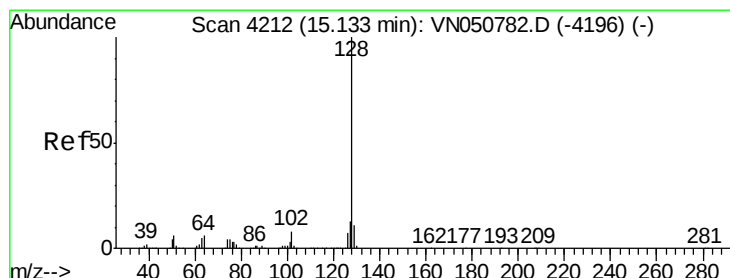
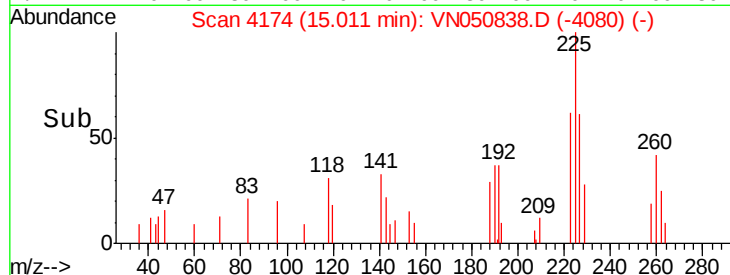
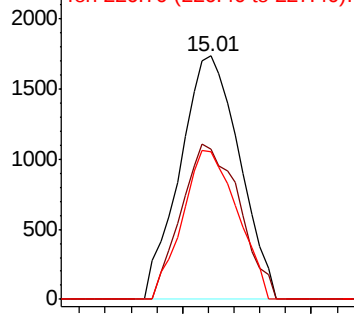
MSVOA_N

ClientSampled :

Tot Ion:	225	Resp:	2794
Ion	Ratio	Lower	Upper
225	100		
223	62.2	31.3	93.8
227	56.4	32.0	96.2



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 5.73 ug/l

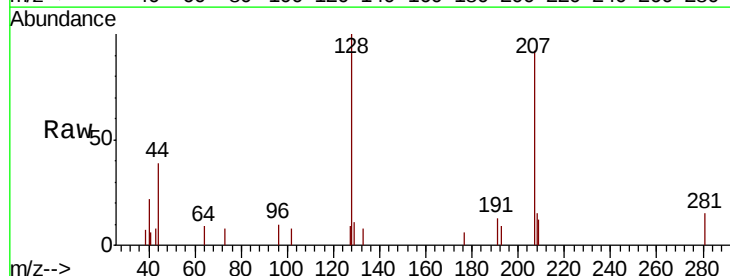
RT: 15.14 min Scan# 4214

Delta R.T. 0.01 min

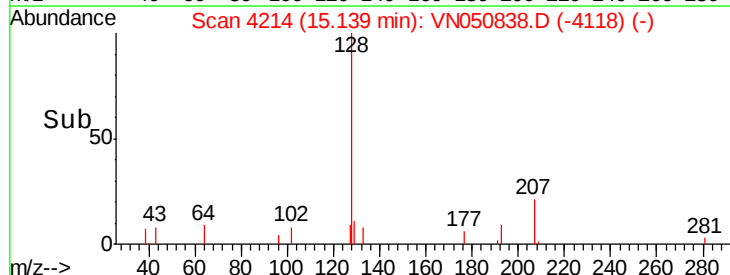
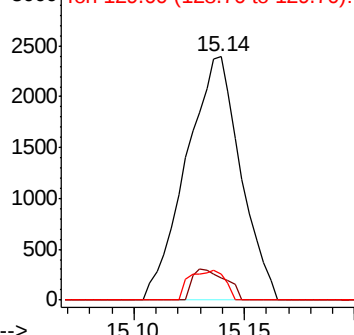
Lab File: VN050838.D

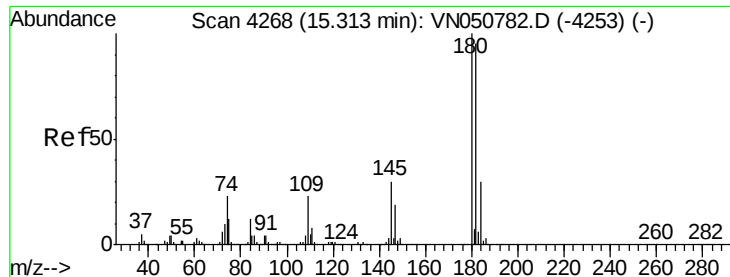
Acq: 23 Aug 2018 9:01

Tgt Ion:	128	Resp:	4095
Ion	Ratio	Lower	Upper
128	100		
127	7.9	10.5	15.7#
129	8.1	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





#96
 1,2,3-Trichlorobenzene
 Concen: 3.70 ug/l
 RT: 15.32 min Scan# 4270
 Delta R.T. 0.01 min
 Lab File: VN050838.D
 Acq: 23 Aug 2018 9:01

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	103.3	48.0	144.2
145	31.3	15.2	45.6

