

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042719\
 Data File : VN055273.D
 Acq On : 26 Apr 2019 14:00
 Operator : JC/SP
 Sample : K2576-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3

Quant Time: Apr 27 02:00:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042219W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 23 05:52:53 2019
 Response via : Initial Calibration

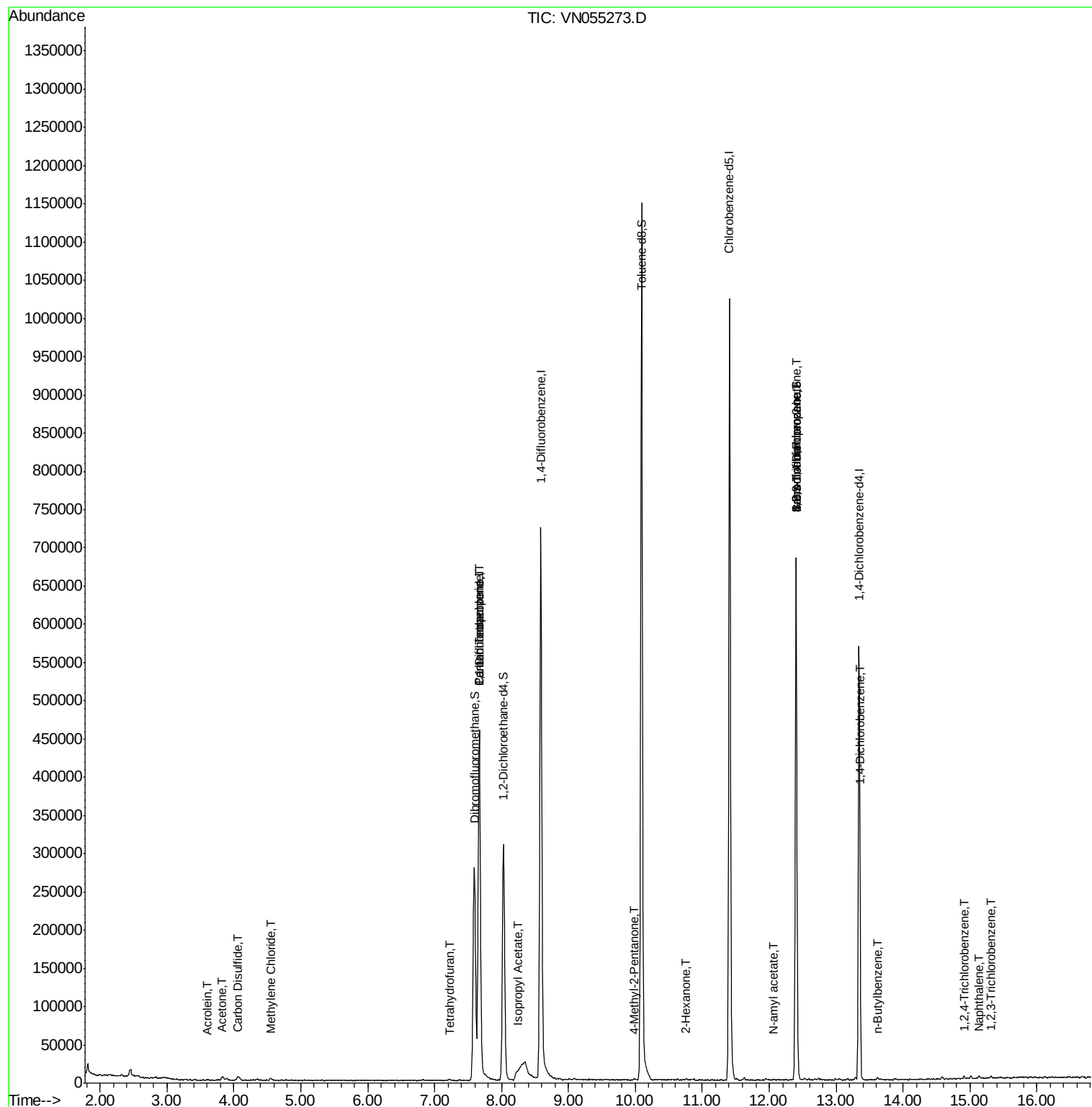
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	388830	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	663401	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	593874	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	149131	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	264503	50.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.52%	
35) Dibromofluoromethane	7.59	113	214547	47.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.22%	
50) Toluene-d8	10.09	98	808083	48.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.78%	
62) 4-Bromofluorobenzene	12.40	95	237170	44.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.70%	
Target Compounds						
					Qvalue	
13) Acrolein	3.61	56	62	9.638	ug/l #	10
16) Acetone	3.83	43	7768	4.465	ug/l	96
17) Carbon Disulfide	4.06	76	5397	0.483	ug/l #	88
18) Methyl Acetate	4.33	43	1693	Below Cal		96
20) Methylene Chloride	4.55	84	1337	0.267	ug/l #	80
29) Tetrahydrofuran	7.22	42	295	0.214	ug/l #	36
31) Cyclohexane	7.66	56	8322	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	29719	4.827	ug/l #	47
38) Carbon Tetrachloride	7.67	117	38005	6.591	ug/l #	16
43) Isopropyl Acetate	8.24	43	10716	1.332	ug/l #	56
51) 4-Methyl-2-Pentanone	9.98	43	1644	0.355	ug/l #	76
59) 2-Hexanone	10.76	43	1303	0.446	ug/l	86
71) Bromoform	12.40	173	1608	0.600	ug/l #	1
73) Isopropylbenzene	12.25	105	1092	Below Cal	#	61
74) N-amyl acetate	12.06	43	769	0.200	ug/l #	50
75) 1,1,2,2-Tetrachloroethane	12.50	83	180	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	123796	40.918	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	123796	155.113	ug/l #	5
83) tert-Butylbenzene	12.99	119	558	Below Cal	#	53
88) 1,4-Dichlorobenzene	13.36	146	1501	0.305	ug/l #	41
89) n-Butylbenzene	13.61	91	1886	0.245	ug/l	87
93) 1,2,4-Trichlorobenzene	14.91	180	1144	3.231	ug/l #	67
94) Hexachlorobutadiene	15.00	225	712	Below Cal		93
95) Naphthalene	15.13	128	3503	4.072	ug/l #	78
96) 1,2,3-Trichlorobenzene	15.32	180	1068	2.593	ug/l	78

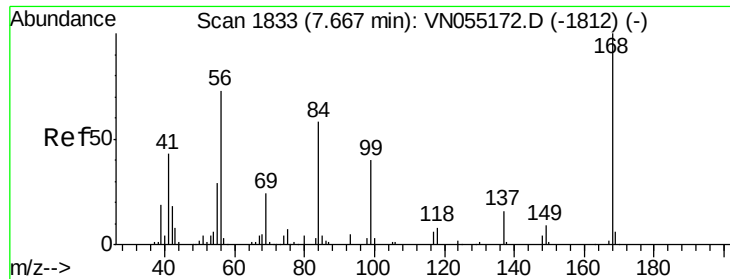
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Apr 23 05:52:53 2019
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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: VN055273.D

Acq: 26 Apr 2019 14:00

Instrument :

MSVOA_N

ClientSampled :

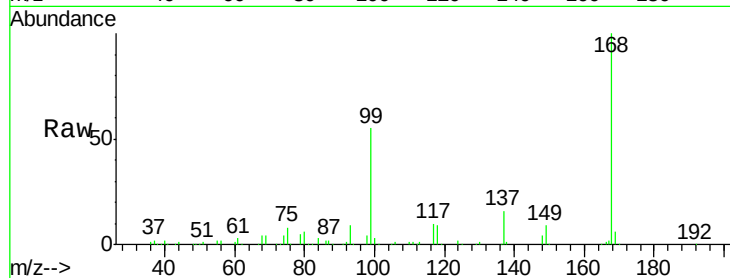
MW-3

Tot Ion:168 Resp: 388830

Ion Ratio Lower Upper

168 100

99 55.4 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

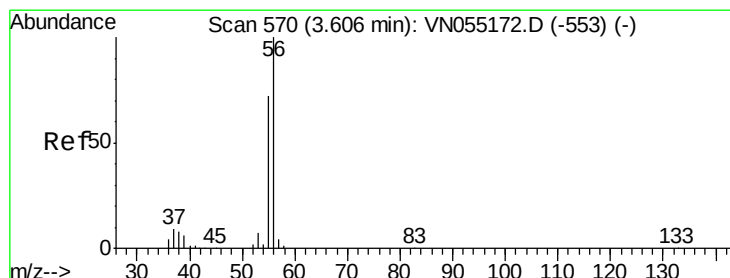
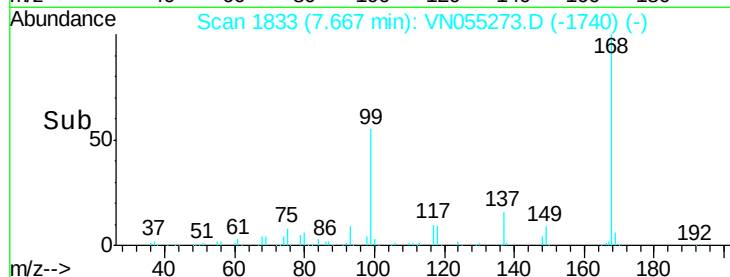
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 9.638 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN055273.D

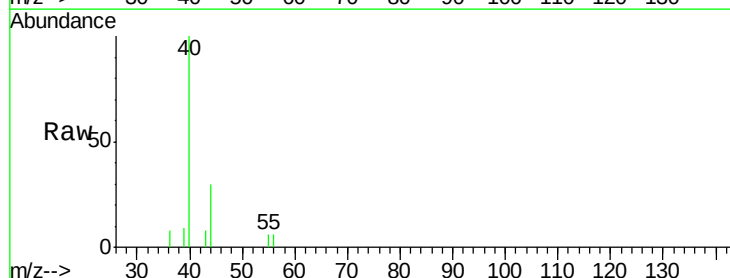
Acq: 26 Apr 2019 14:00

Tgt Ion: 56 Resp: 62

Ion Ratio Lower Upper

56 100

55 146.8 57.4 86.0#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.61

200

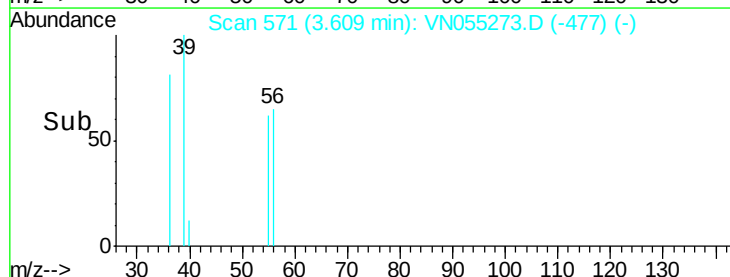
150

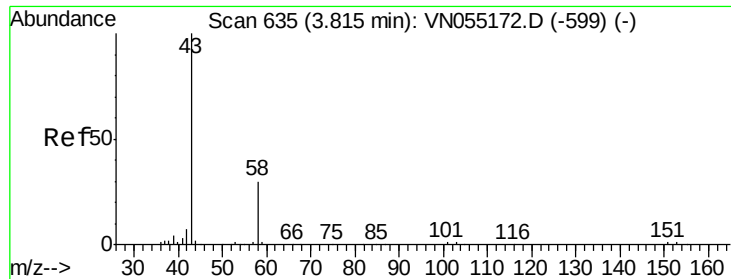
100

50

0

Time-->





#16

Acetone

Concen: 4.465 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.02 min

Lab File: VN055273.D

Acq: 26 Apr 2019 14:00

Instrument :

MSVOA_N

ClientSampled :

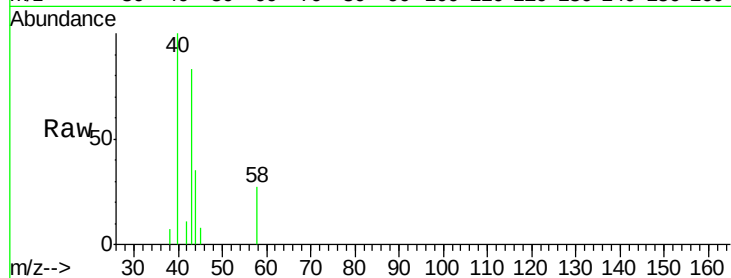
MW-3

Tot Ion: 43 Resp: 7768

Ion Ratio Lower Upper

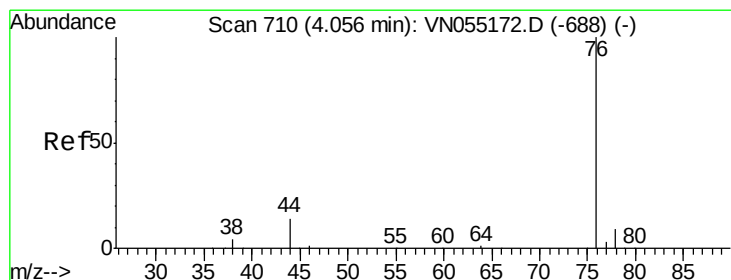
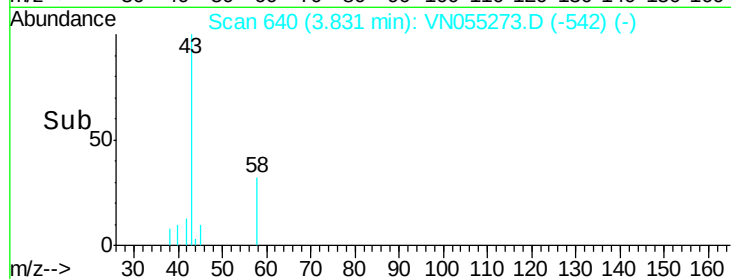
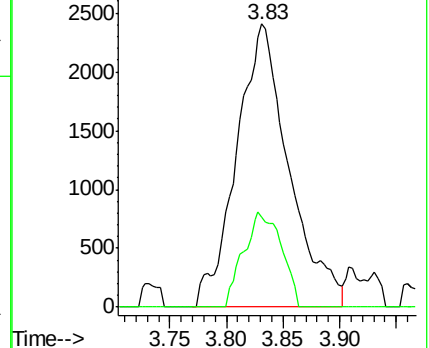
43 100

58 31.9 23.8 35.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.483 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN055273.D

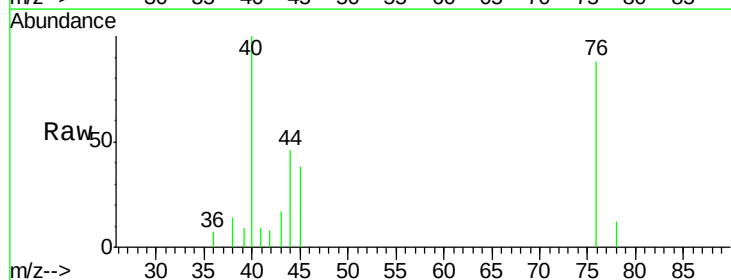
Acq: 26 Apr 2019 14:00

Tgt Ion: 76 Resp: 5397

Ion Ratio Lower Upper

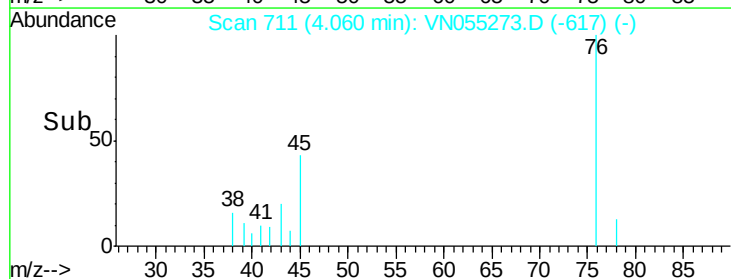
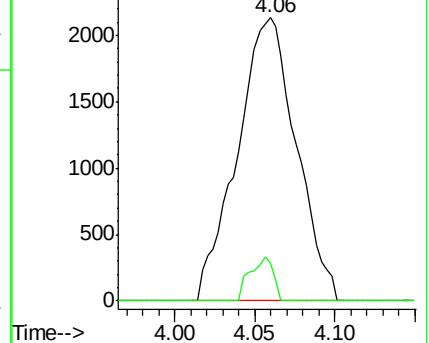
76 100

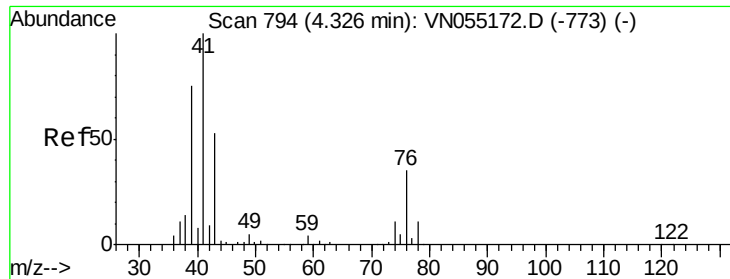
78 13.3 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

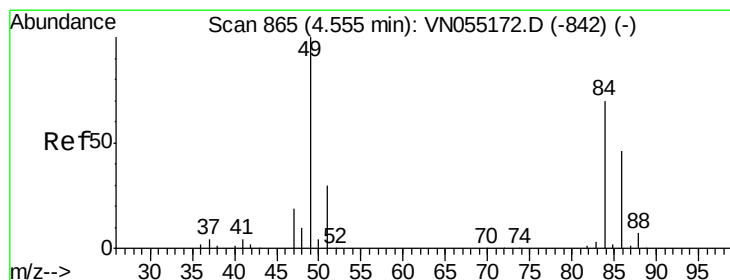
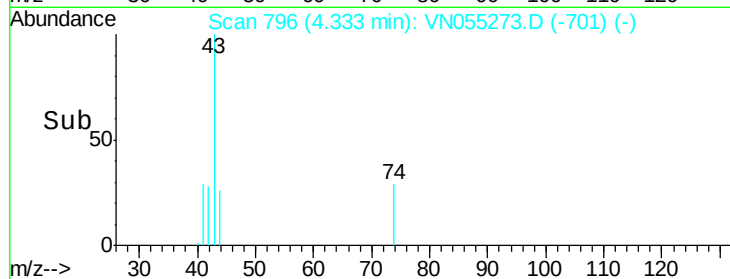
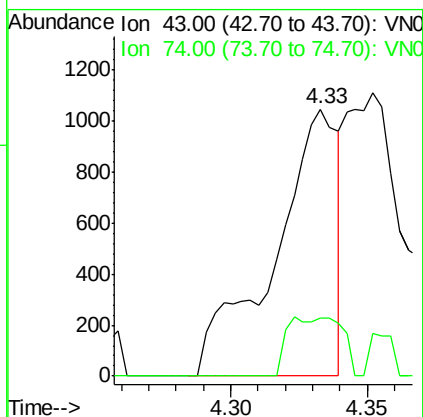
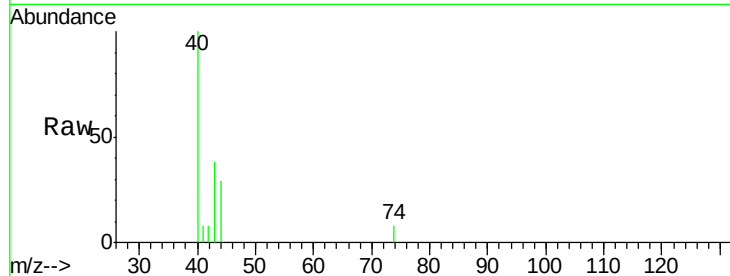




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN055273.D
Acq: 26 Apr 2019 14:00

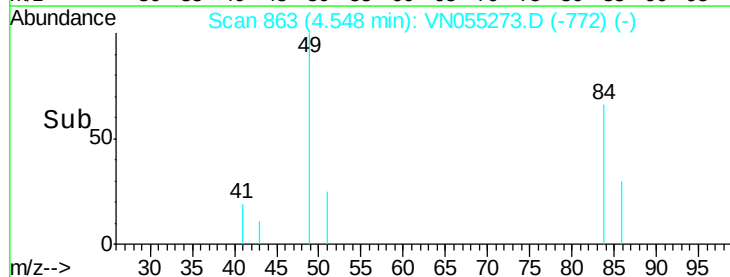
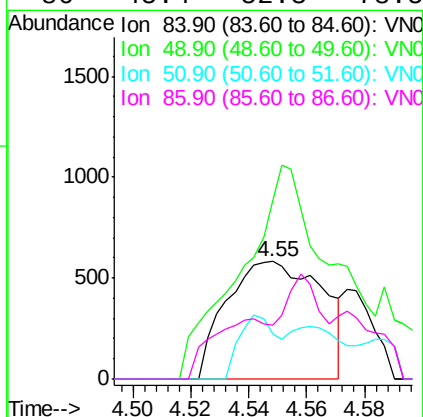
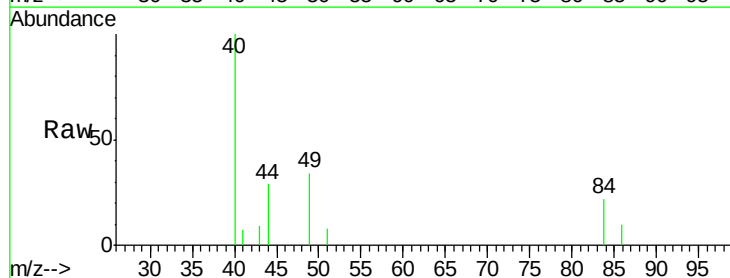
Instrument :
MSVOA_N
ClientSampled :
MW-3

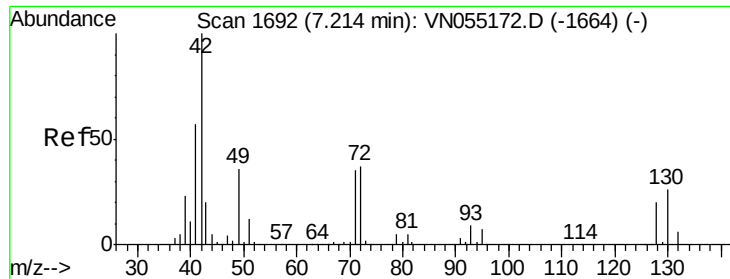
Tot Ion: 43 Resp: 1693
Ion Ratio Lower Upper
43 100
74 19.2 16.7 25.1



#20
Methylene Chloride
Concen: 0.267 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.01 min
Lab File: VN055273.D
Acq: 26 Apr 2019 14:00

Tgt Ion: 84 Resp: 1337
Ion Ratio Lower Upper
84 100
49 116.9 113.8 170.6
51 37.7 34.0 51.0
86 45.4 52.3 78.5#





#29

Tetrahydrofuran

Concen: 0.214 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN055273.D

Acq: 26 Apr 2019 14:00

Instrument :

MSVOA_N

ClientSampled :

MW-3

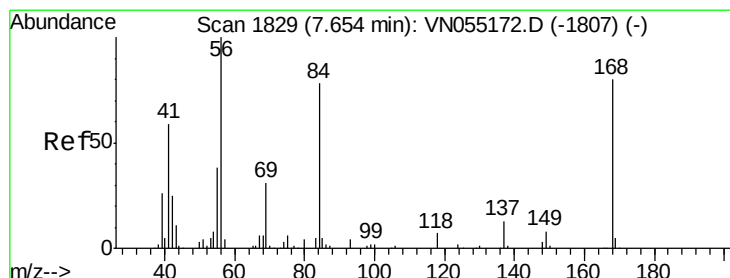
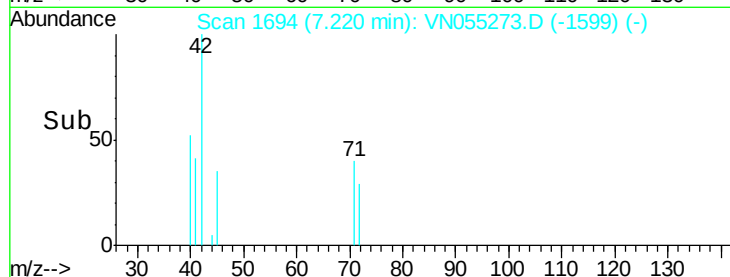
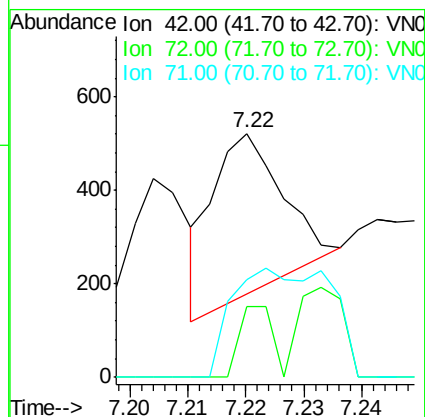
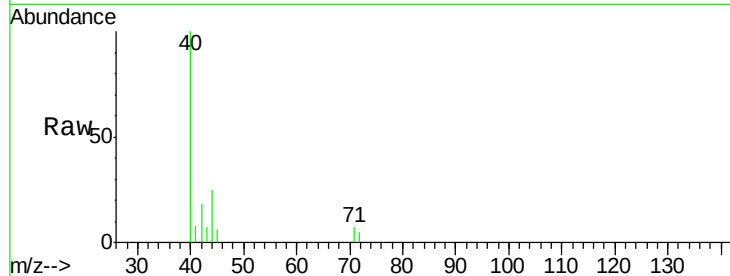
Tot Ion: 42 Resp: 295

Ion Ratio Lower Upper

42 100

72 19.7 29.4 44.2#

71 92.9 27.8 41.8#



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN055273.D

Acq: 26 Apr 2019 14:00

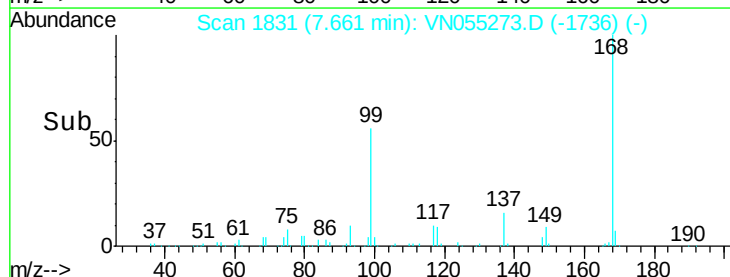
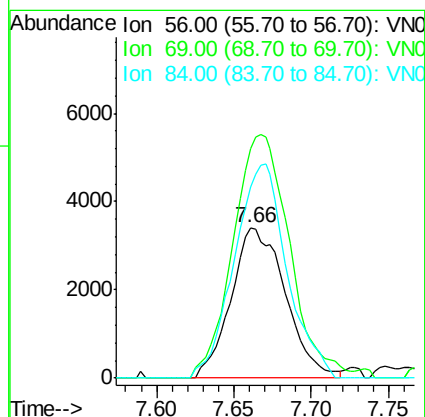
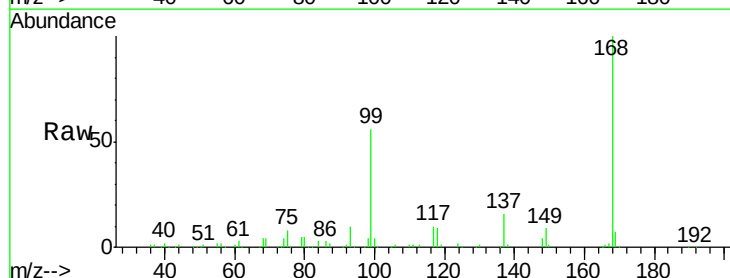
Tgt Ion: 56 Resp: 8322

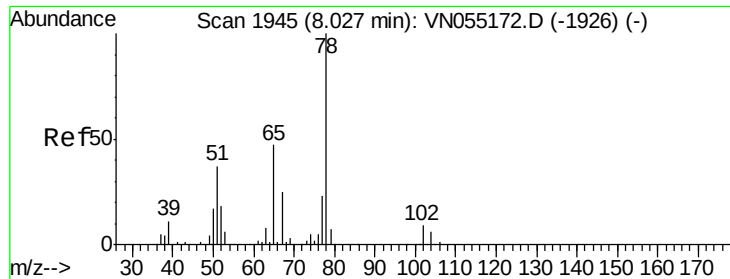
Ion Ratio Lower Upper

56 100

69 152.3 24.6 37.0#

84 126.5 61.4 92.2#

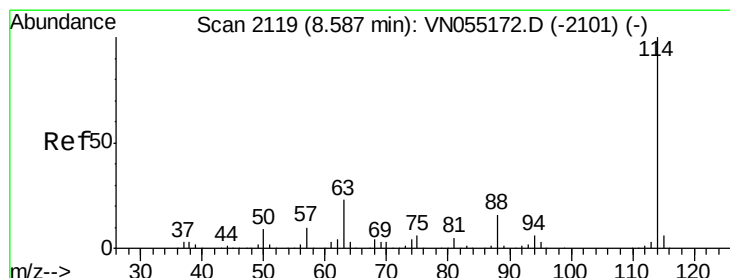
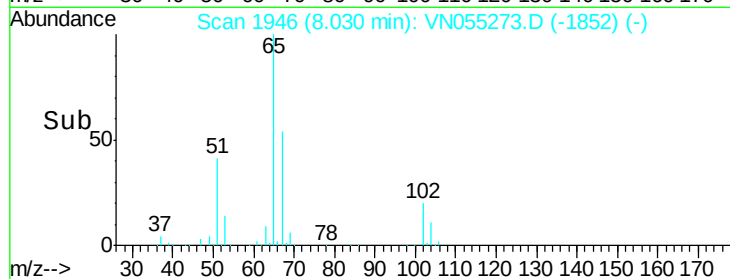
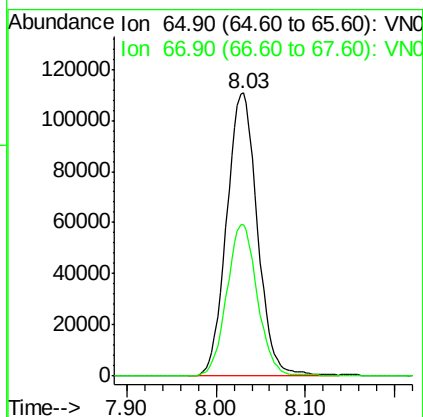
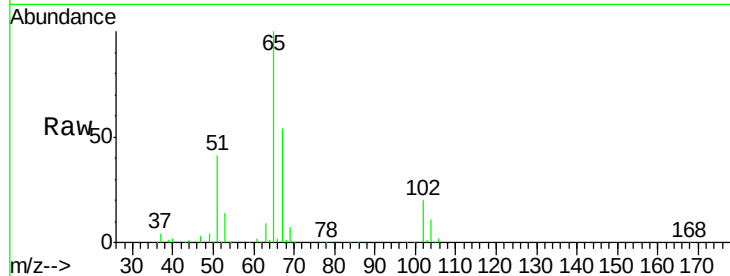




#33
 1,2-Dichloroethane-d4
 Concen: 50.258 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN055273.D
 Acq: 26 Apr 2019 14:00

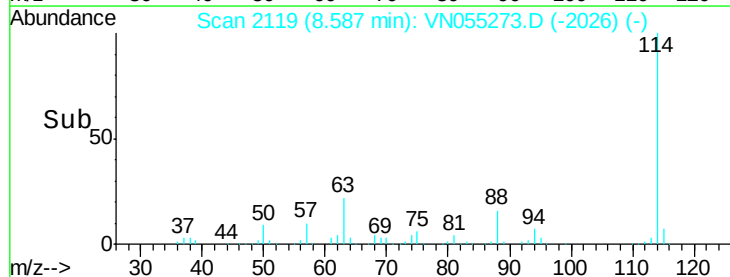
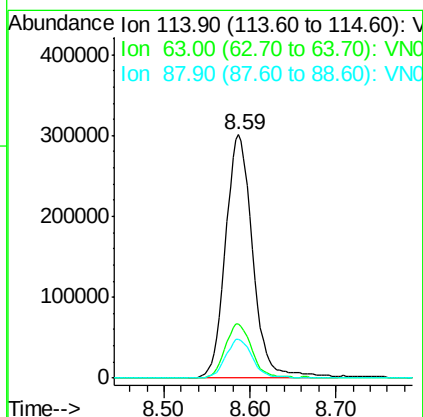
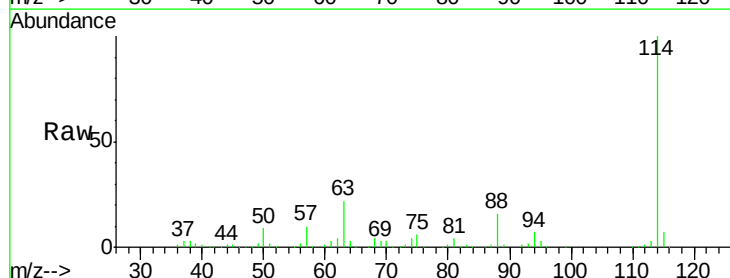
Instrument :
 MSVOA_N
 ClientSampled :
 MW-3

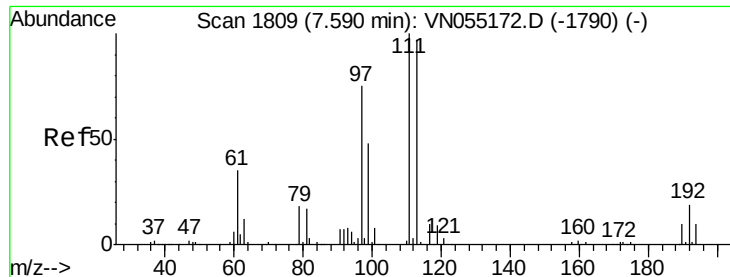
Tot Ion: 65 Resp: 264503
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055273.D
 Acq: 26 Apr 2019 14:00

Tgt Ion: 114 Resp: 663401
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 45.2
 88 16.1 0.0 32.8





#35

Dibromofluoromethane

Concen: 47.605 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN055273.D

Acq: 26 Apr 2019 14:00

Instrument :

MSVOA_N

ClientSampleId :

MW-3

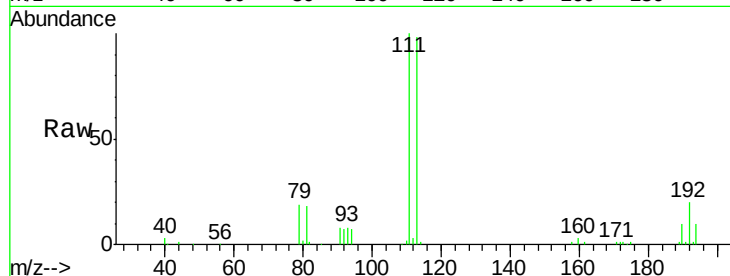
Tot Ion:113 Resp: 214547

Ion Ratio Lower Upper

113 100

111 103.6 81.0 121.4

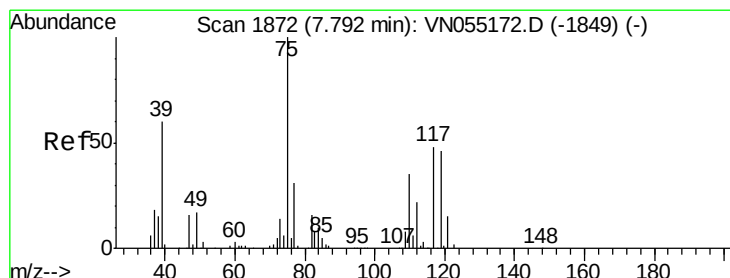
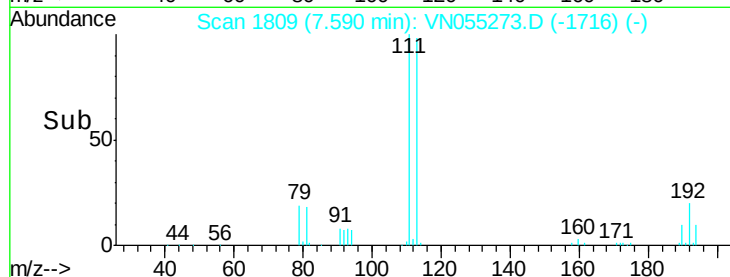
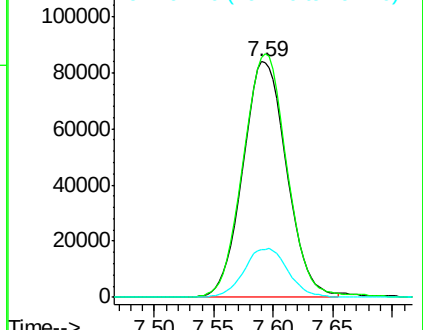
192 20.9 16.2 24.4



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: 4.827 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN055273.D

Acq: 26 Apr 2019 14:00

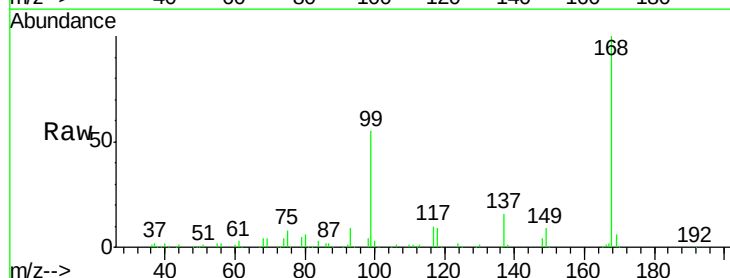
Tgt Ion: 75 Resp: 29719

Ion Ratio Lower Upper

75 100

110 5.1 17.1 51.2#

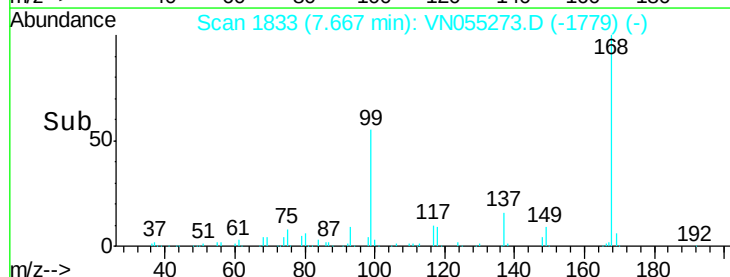
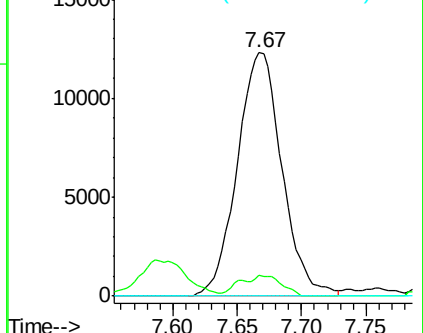
77 0.0 24.6 36.8#

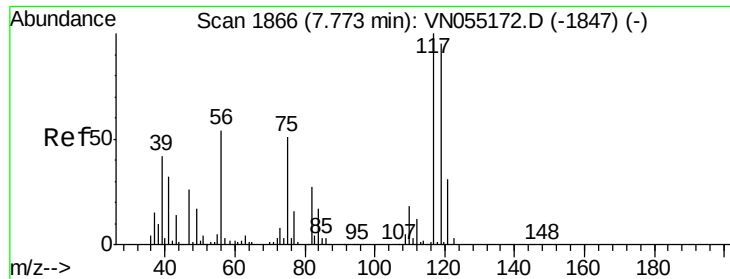


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

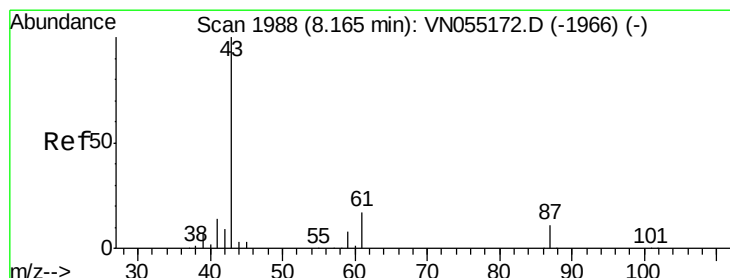
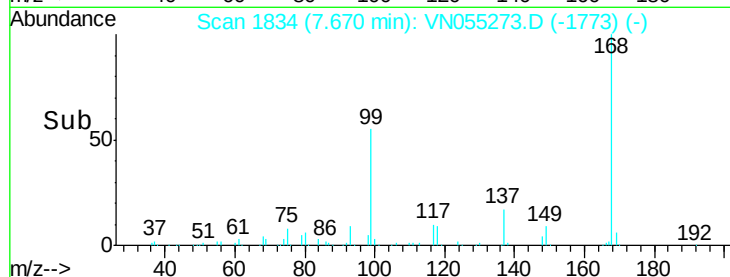
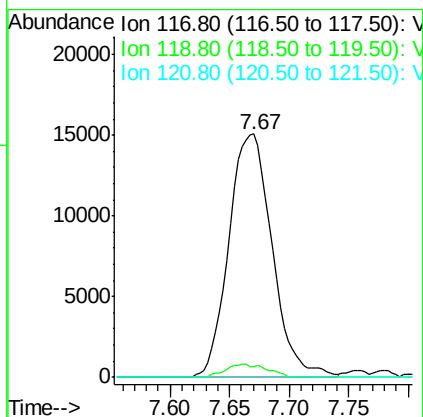
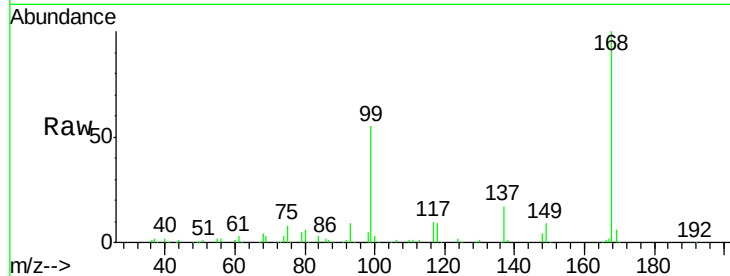




#38
Carbon Tetrachloride
Concen: 6.591 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. -0.10 min
Lab File: VN055273.D
Acq: 26 Apr 2019 14:00

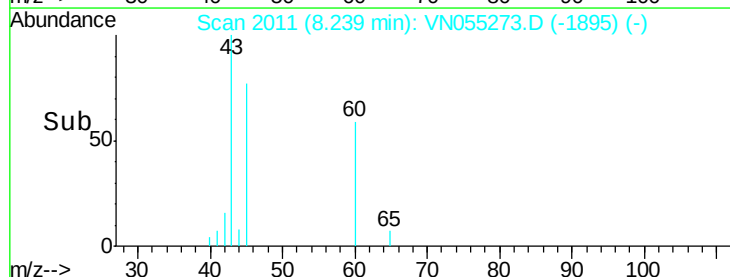
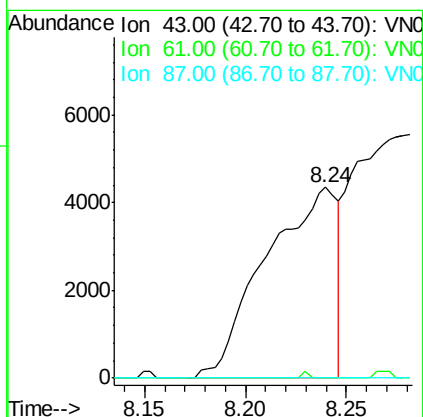
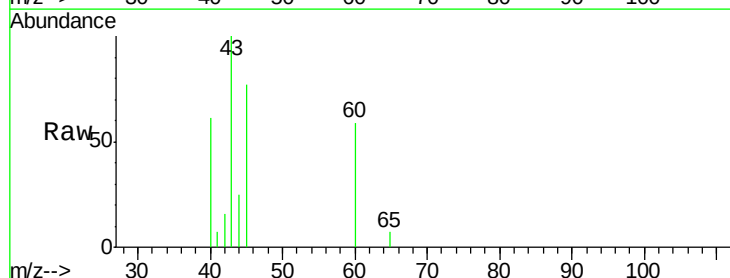
Instrument :
MSVOA_N
ClientSampled :
MW-3

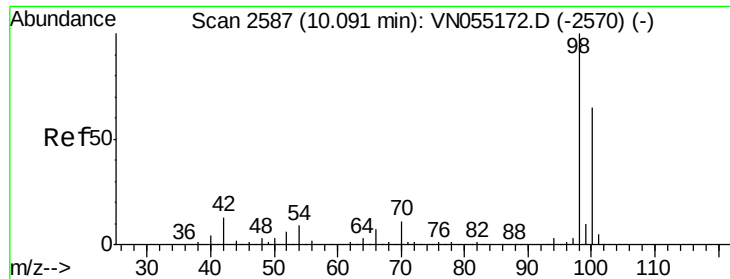
Tot Ion:117 Resp: 38005
Ion Ratio Lower Upper
117 100
119 4.6 76.0 114.0#
121 0.0 24.6 36.8#



#43
Isopropyl Acetate
Concen: 1.332 ug/l
RT: 8.24 min Scan# 2011
Delta R.T. 0.07 min
Lab File: VN055273.D
Acq: 26 Apr 2019 14:00

Tgt Ion: 43 Resp: 10716
Ion Ratio Lower Upper
43 100
61 0.0 20.6 30.8#
87 0.0 8.8 13.2#





#50

Toluene-d8

Concen: 48.393 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055273.D

Acq: 26 Apr 2019 14:00

Instrument :

MSVOA_N

ClientSampled :

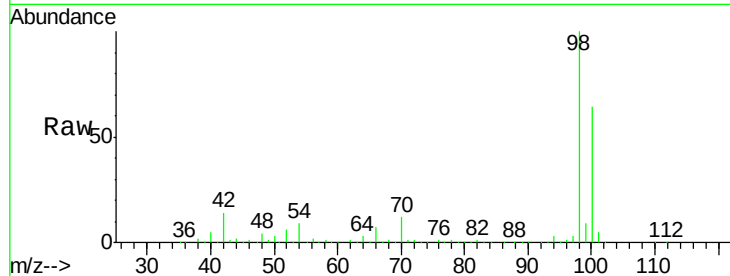
MW-3

Tot Ion: 98 Resp: 808083

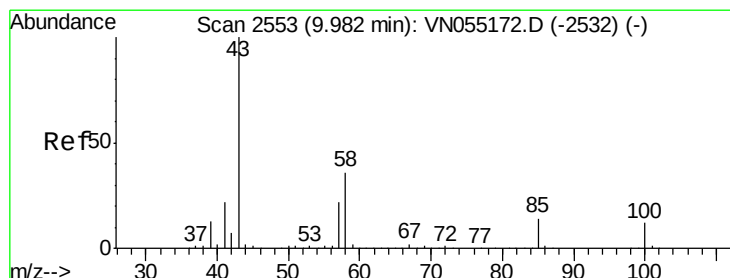
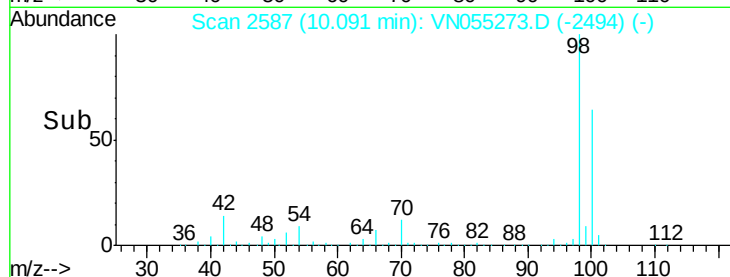
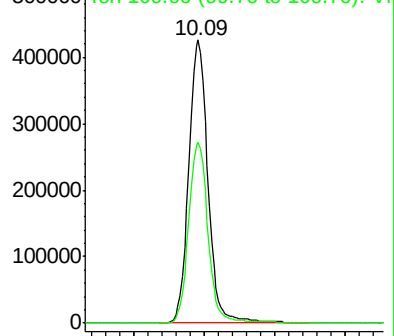
Ion Ratio Lower Upper

98 100

100 64.8 51.8 77.6



Abundance Ion 98.00 (97.70 to 98.70): VN055172.D (-2570) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.355 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN055273.D

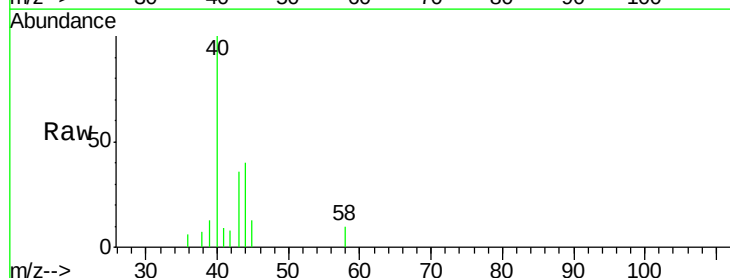
Acq: 26 Apr 2019 14:00

Tgt Ion: 43 Resp: 1644

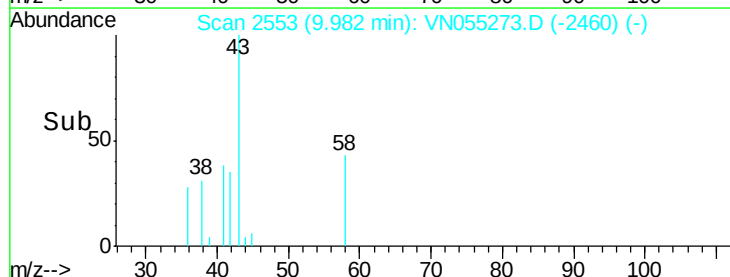
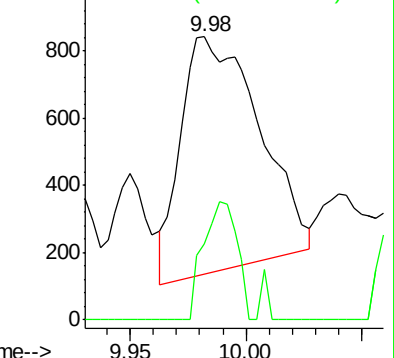
Ion Ratio Lower Upper

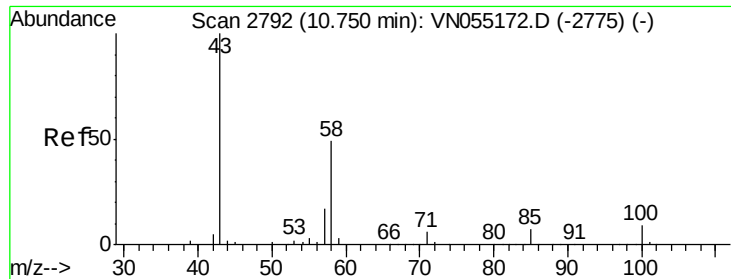
43 100

58 21.7 28.3 42.5#



Abundance Ion 43.00 (42.70 to 43.70): VN055172.D (-2532) (-)

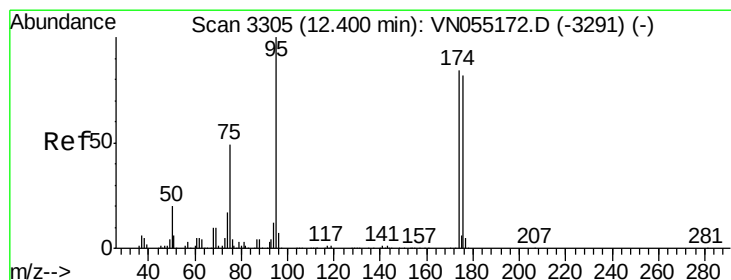
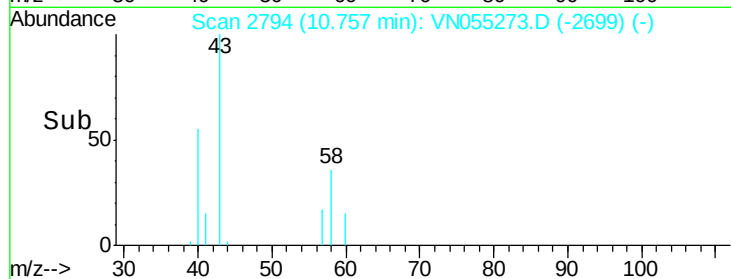
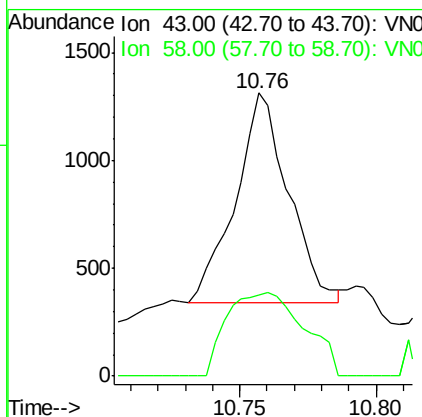
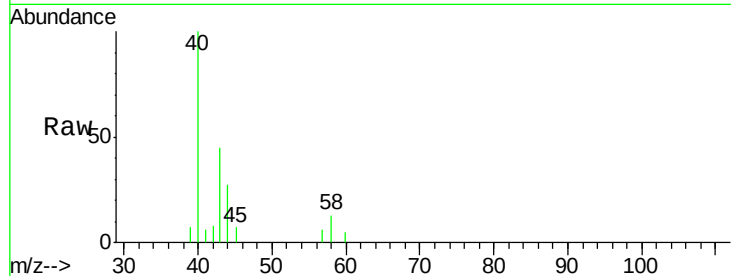




#59
2-Hexanone
Concen: 0.446 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN055273.D
Acq: 26 Apr 2019 14:00

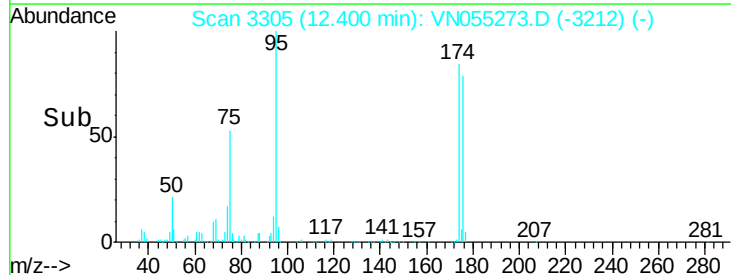
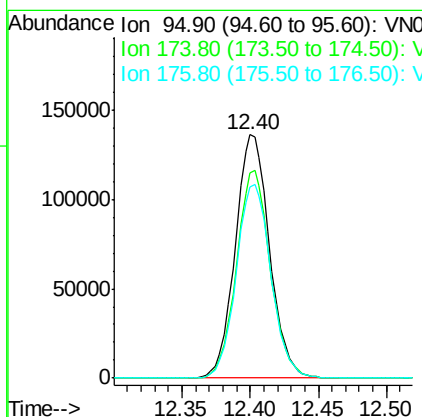
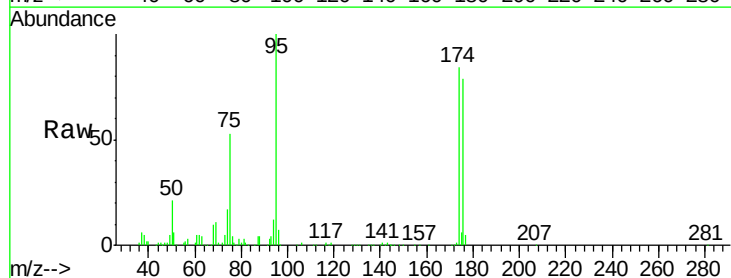
Instrument :
MSVOA_N
ClientSampled :
MW-3

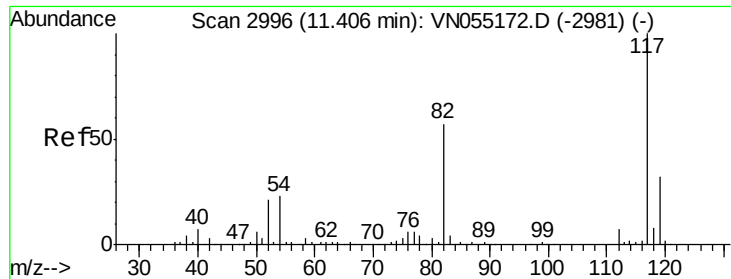
Tot Ion: 43 Resp: 1303
Ion Ratio Lower Upper
43 100
58 58.5 24.5 73.5



#62
4-Bromofluorobenzene
Concen: 44.851 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055273.D
Acq: 26 Apr 2019 14:00

Tgt Ion: 95 Resp: 237170
Ion Ratio Lower Upper
95 100
174 84.4 0.0 168.4
176 80.6 0.0 164.0

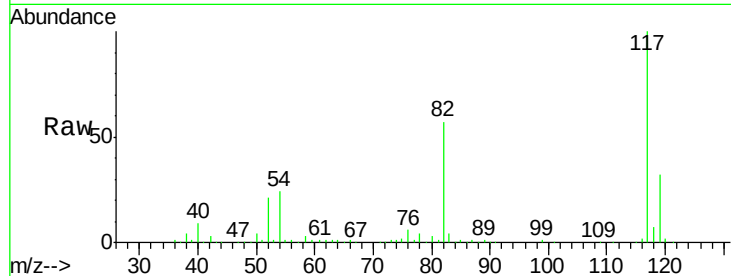




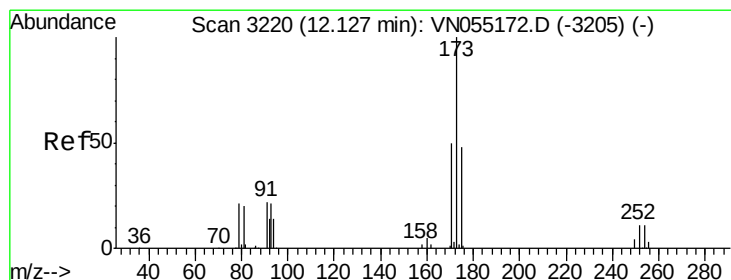
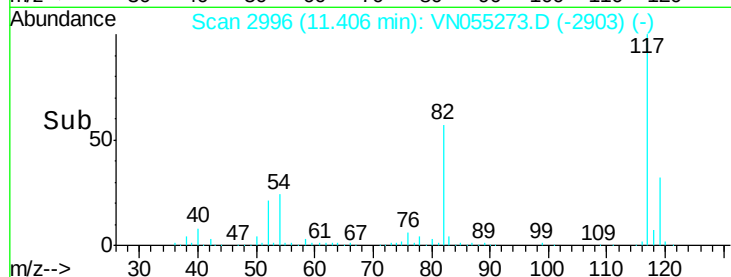
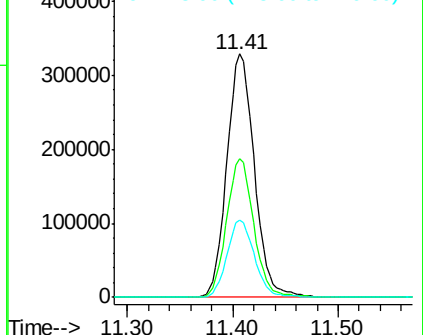
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055273.D
Acq: 26 Apr 2019 14:00

Instrument :
MSVOA_N
ClientSampled :
MW-3

Tot Ion:117 Resp: 593874
Ion Ratio Lower Upper
117 100
82 57.2 45.7 68.5
119 31.8 25.4 38.2

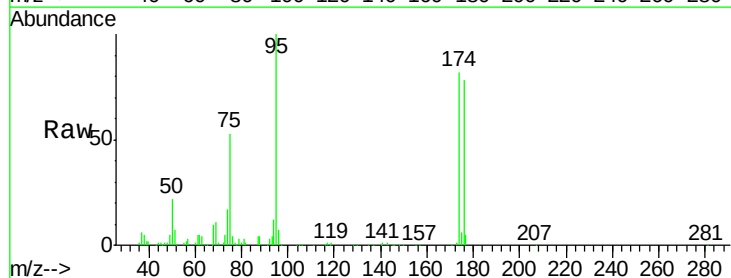


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

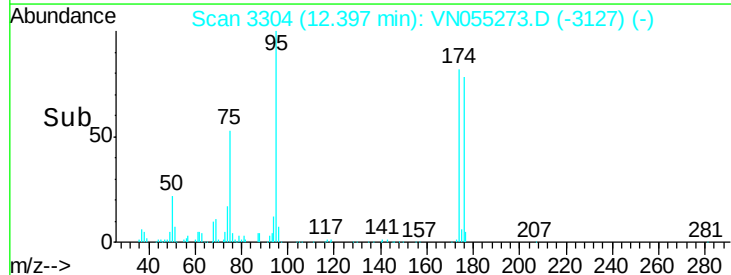
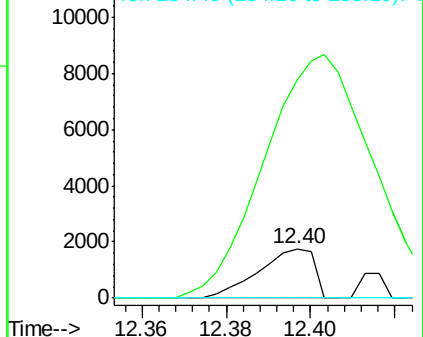


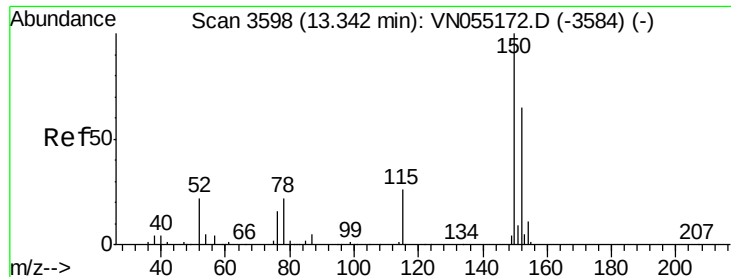
#71
Bromoform
Concen: 0.600 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN055273.D
Acq: 26 Apr 2019 14:00

Tgt Ion:173 Resp: 1608
Ion Ratio Lower Upper
173 100
175 819.0 23.8 71.2#
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: VN055273.D

Acq: 26 Apr 2019 14:00

Instrument :

MSVOA_N

ClientSampled :

MW-3

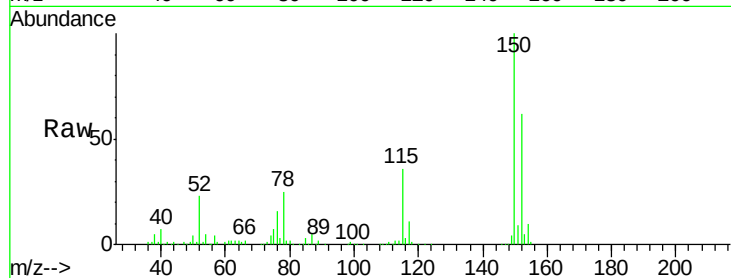
Tot Ion:152 Resp: 149131

Ion Ratio Lower Upper

152 100

115 57.7 28.9 86.7

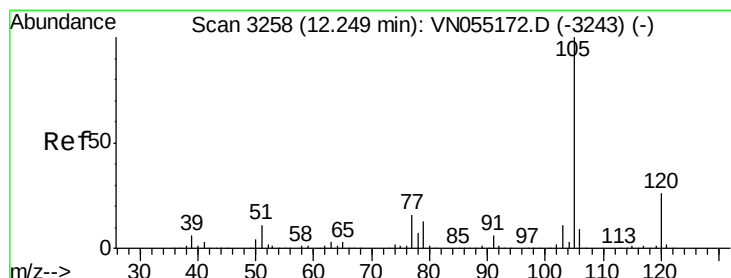
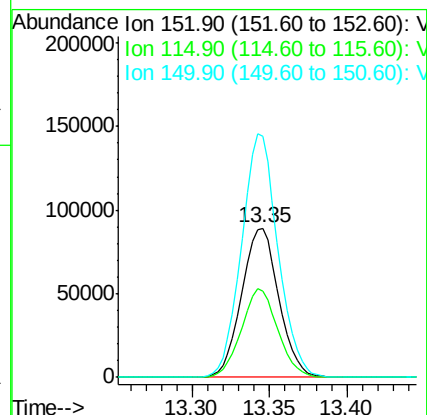
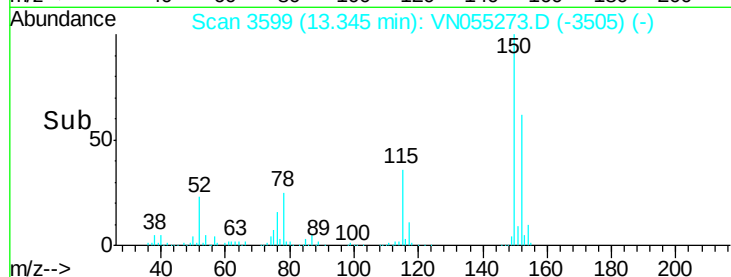
150 159.7 0.0 346.6



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



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055273.D

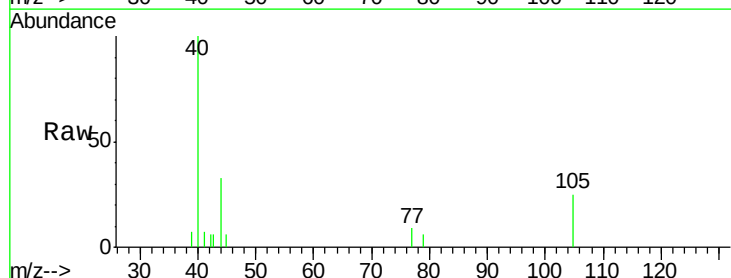
Acq: 26 Apr 2019 14:00

Tgt Ion:105 Resp: 1092

Ion Ratio Lower Upper

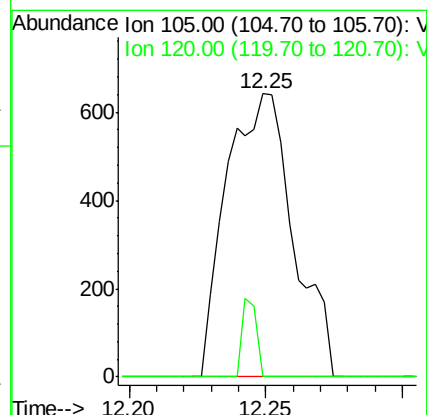
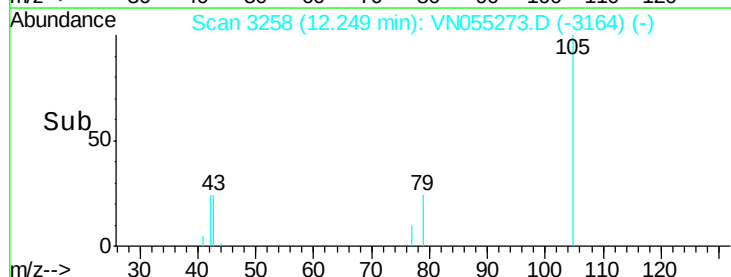
105 100

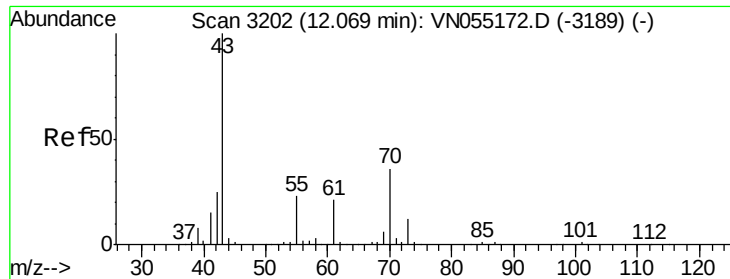
120 6.0 13.1 39.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 0.200 ug/l

RT: 12.06 min Scan# 3200

Delta R.T. -0.01 min

Lab File: VN055273.D

Acq: 26 Apr 2019 14:00

Instrument :

MSVOA_N

ClientSampled :

MW-3

Tot Ion: 43 Resp: 769

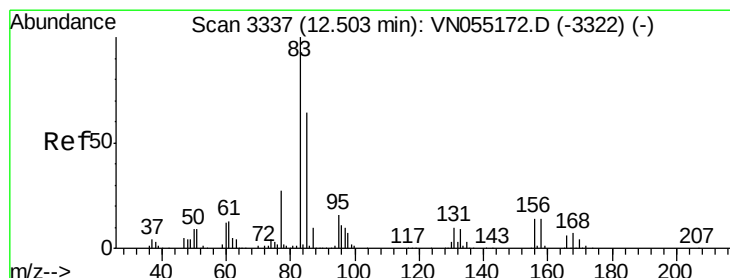
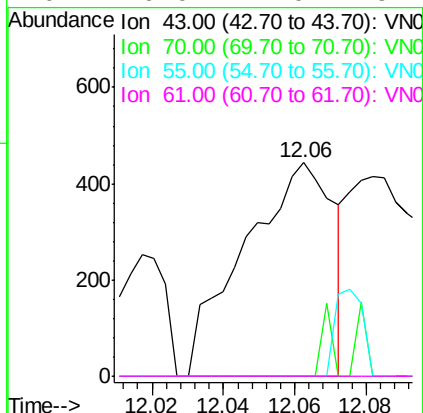
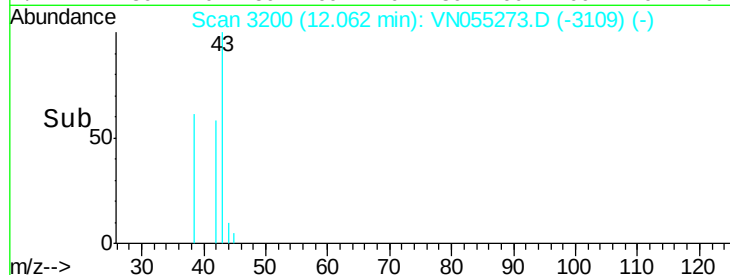
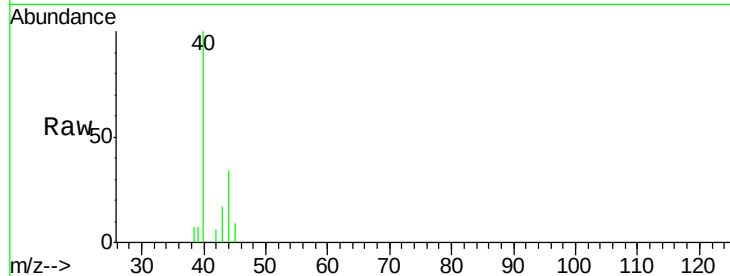
Ion Ratio Lower Upper

43 100

70 3.8 29.0 43.6#

55 0.0 18.5 27.7#

61 0.0 17.0 25.4#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055273.D

Acq: 26 Apr 2019 14:00

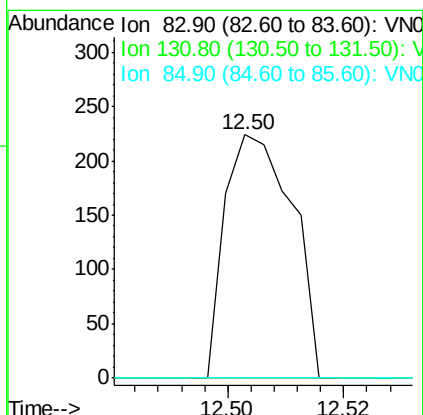
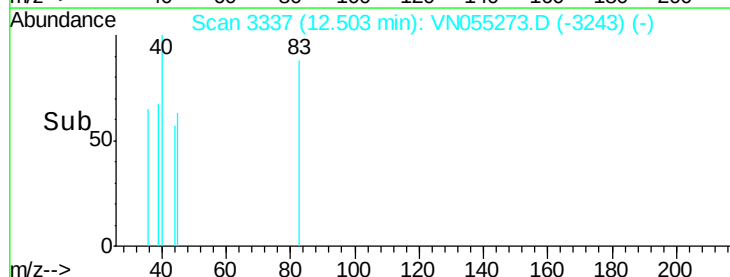
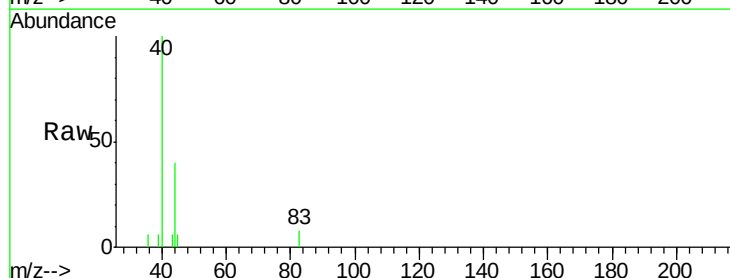
Tgt Ion: 83 Resp: 180

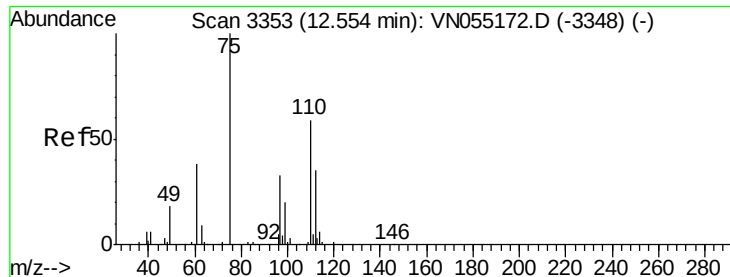
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 0.0 32.1 96.3#





#76

1,2,3-Trichloropropane

Concen: 40.918 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055273.D

Acq: 26 Apr 2019 14:00

Instrument :

MSVOA_N

ClientSampleId :

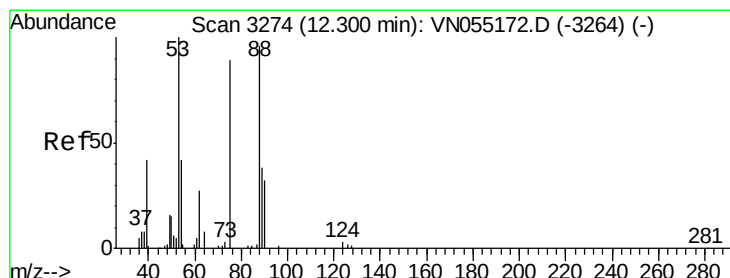
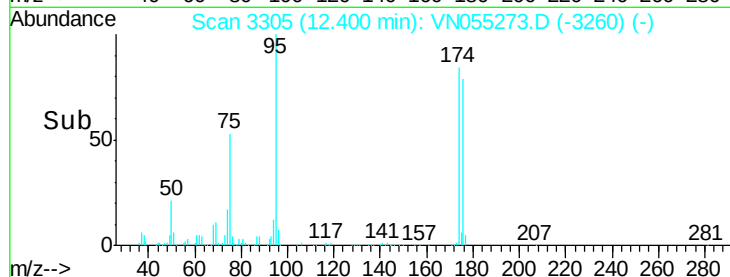
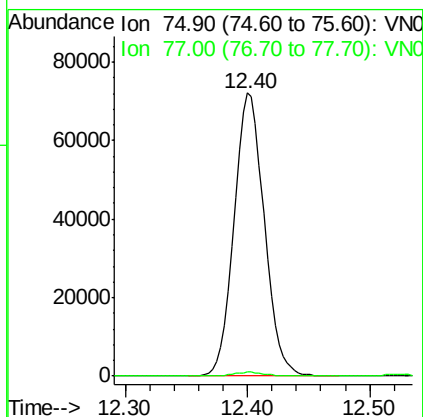
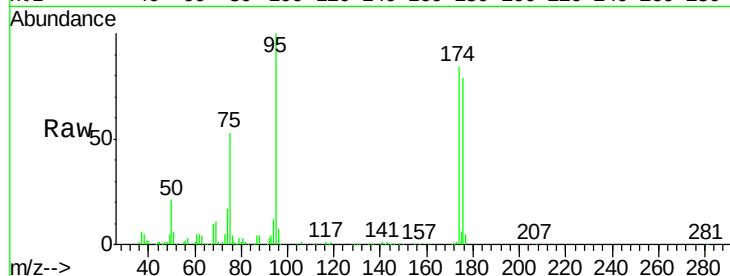
MW-3

Tot Ion: 75 Resp: 123796

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 155.113 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055273.D

Acq: 26 Apr 2019 14:00

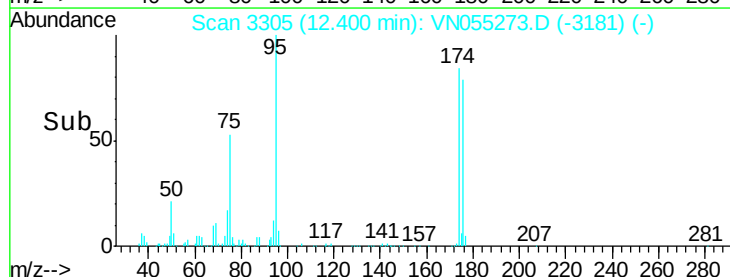
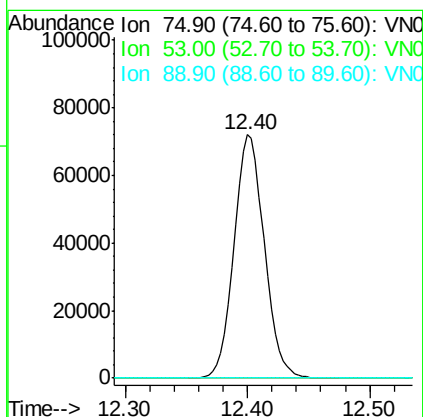
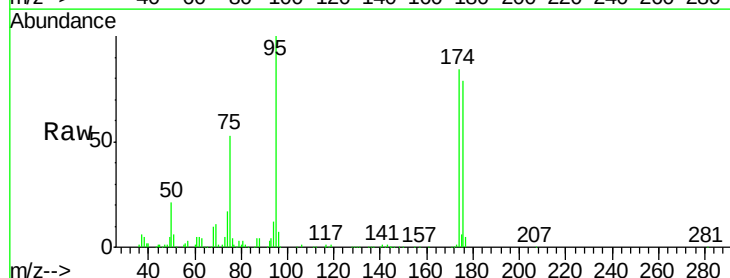
Tgt Ion: 75 Resp: 123796

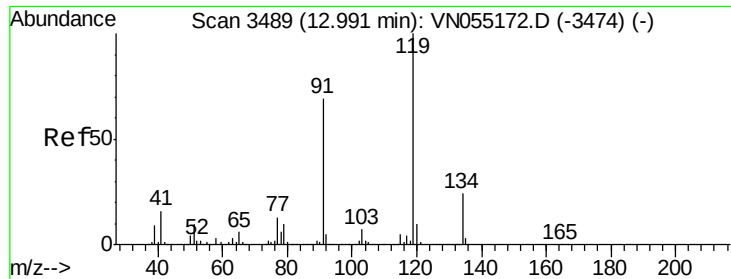
Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.0 36.7 55.1#

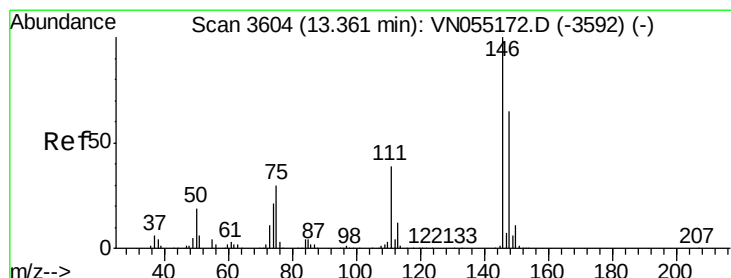
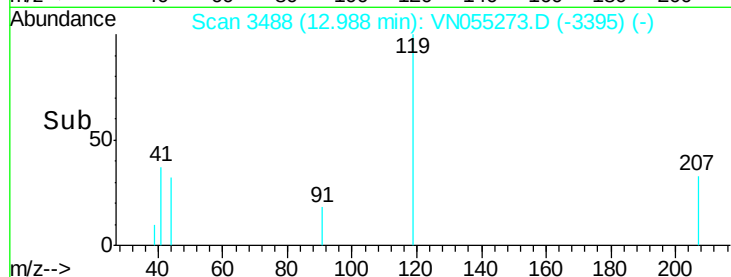
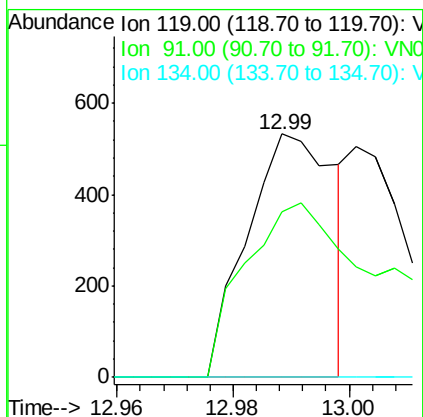
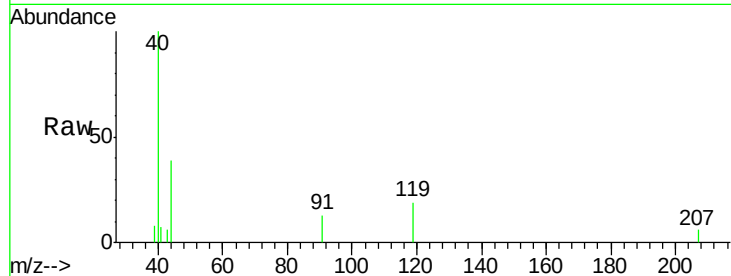




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3488
 Delta R.T. -0.00 min
 Lab File: VN055273.D
 Acq: 26 Apr 2019 14:00

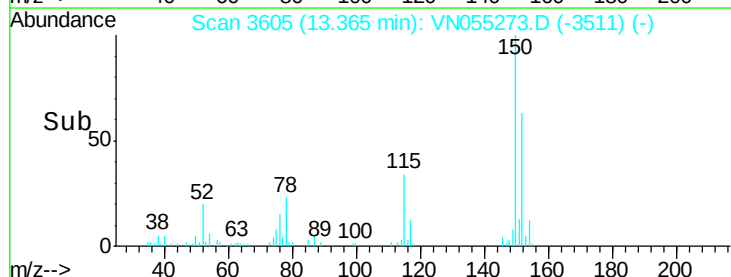
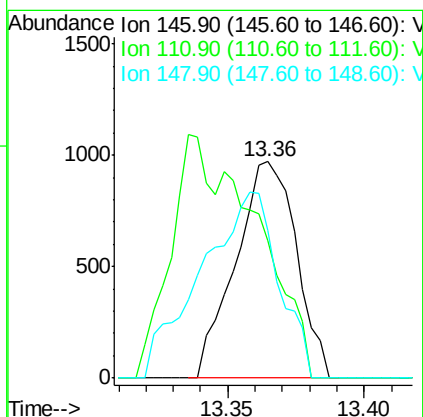
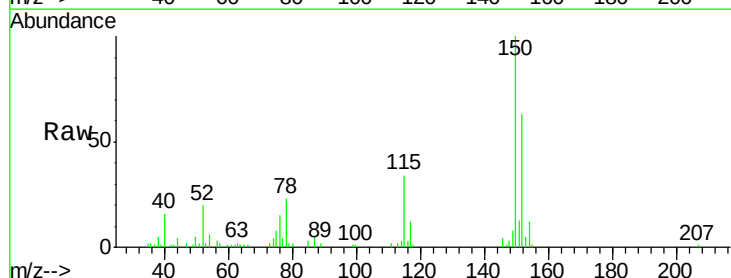
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3

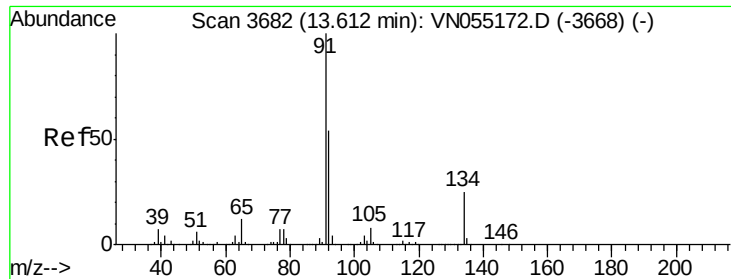
Tot Ion:119 Resp: 558
 Ion Ratio Lower Upper
 119 100
 91 103.9 33.8 101.3#
 134 0.0 13.2 39.5#



#88
 1,4-Dichlorobenzene
 Concen: 0.305 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN055273.D
 Acq: 26 Apr 2019 14:00

Tgt Ion:146 Resp: 1501
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.4 58.2#
 148 109.9 32.9 98.6#

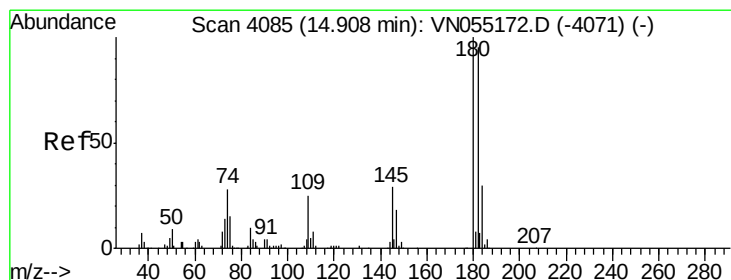
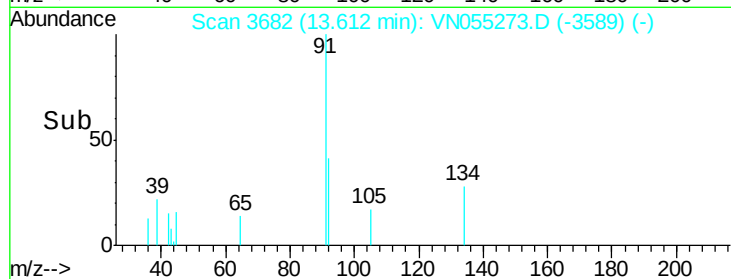
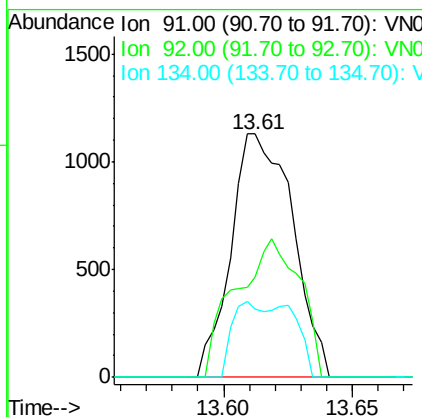
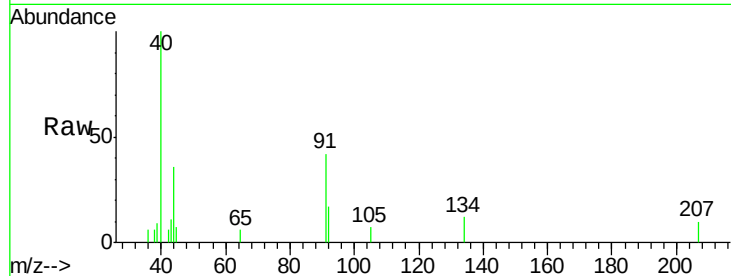




#89
n-Butylbenzene
Concen: 0.245 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN055273.D
Acq: 26 Apr 2019 14:00

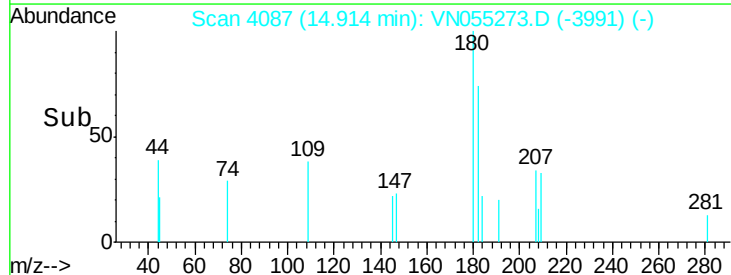
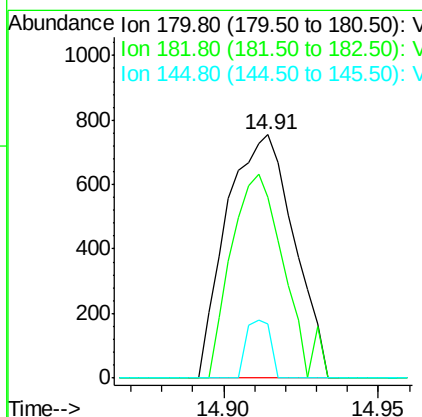
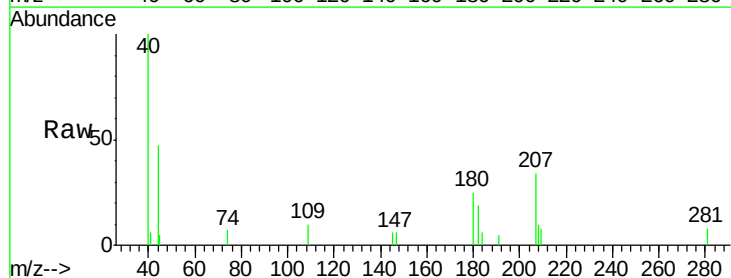
Instrument :
MSVOA_N
ClientSampled :
MW-3

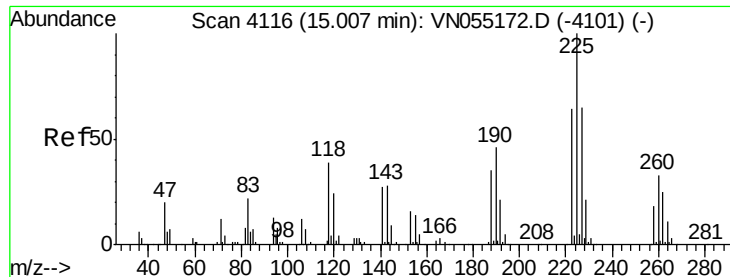
Tot Ion: 91 Resp: 1886
Ion Ratio Lower Upper
91 100
92 59.3 26.4 79.2
134 15.6 12.8 38.4



#93
1,2,4-Trichlorobenzene
Concen: 3.231 ug/l
RT: 14.91 min Scan# 4087
Delta R.T. 0.01 min
Lab File: VN055273.D
Acq: 26 Apr 2019 14:00

Tgt Ion: 180 Resp: 1144
Ion Ratio Lower Upper
180 100
182 65.6 47.8 143.4
145 8.6 14.5 43.5#





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.00 min Scan# 4115

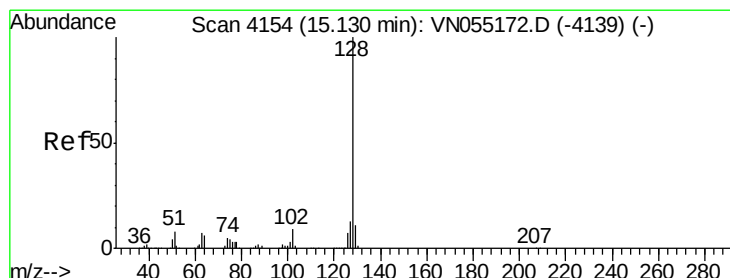
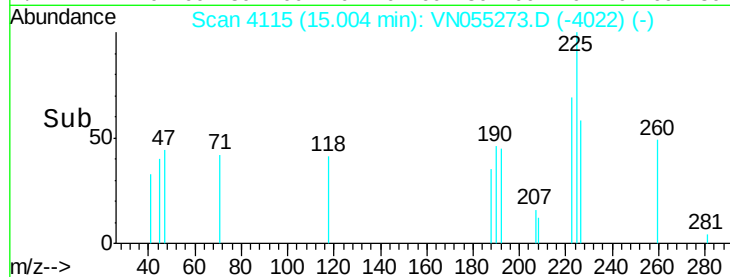
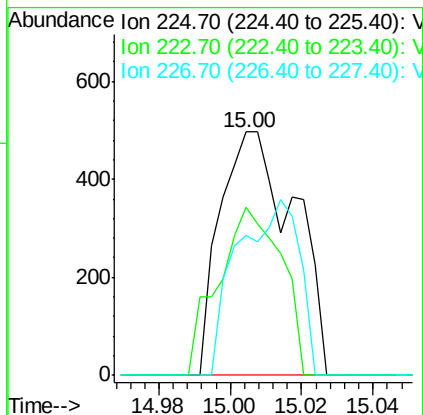
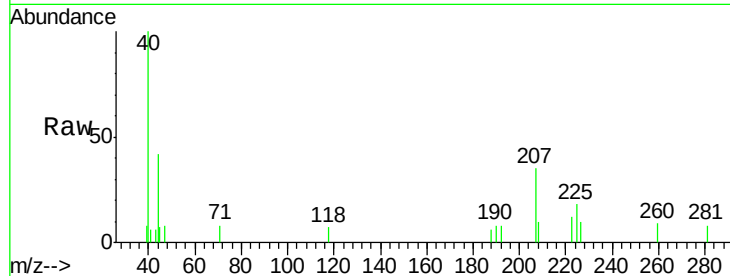
Delta R.T. -0.00 min

Lab File: VN055273.D

Acq: 26 Apr 2019 14:00

Instrument :
MSVOA_N
ClientSampled :
MW-3

Tot Ion:	225	Resp:	712
Ion	Ratio	Lower	Upper
225	100		
223	59.1	32.2	96.6
227	60.1	32.6	98.0



#95

Naphthalene

Concen: 4.072 ug/l

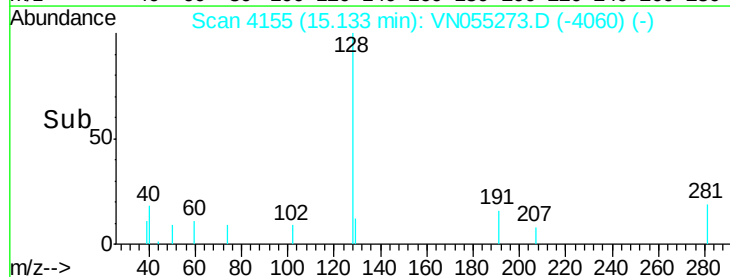
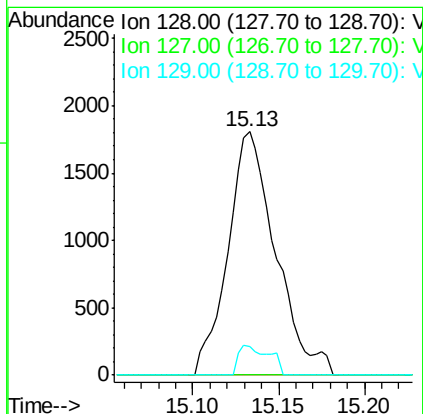
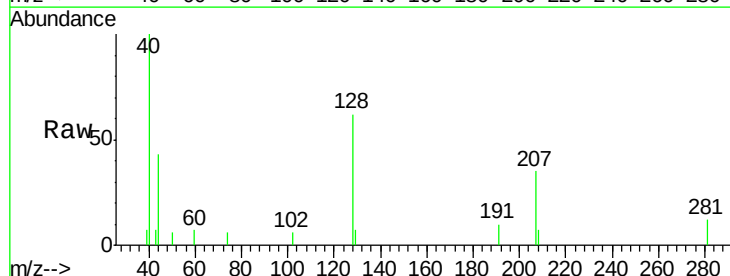
RT: 15.13 min Scan# 4155

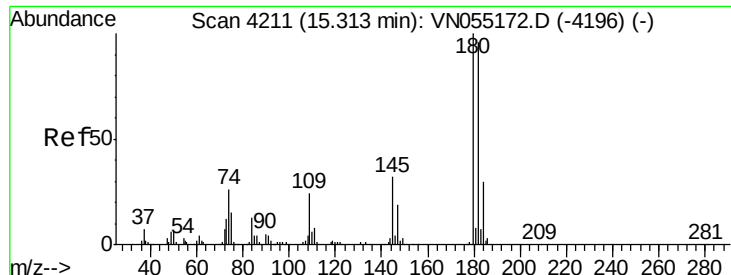
Delta R.T. 0.00 min

Lab File: VN055273.D

Acq: 26 Apr 2019 14:00

Tgt Ion:	128	Resp:	3503
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	7.7	8.8	13.2#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.593 ug/l
 RT: 15.32 min Scan# 4213
 Delta R.T. 0.01 min
 Lab File: VN055273.D
 Acq: 26 Apr 2019 14:00

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3

Tot Ion	Ratio	Lower	Upper
180	100		
182	116.3	47.2	141.6
145	18.6	15.4	46.1

