

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062818\
 Data File : VN049622.D
 Acq On : 29 Jun 2018 6:00
 Operator : MD\SY
 Sample : J3612-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 29 08:37:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:02:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1180067	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1907465	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1582220	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	581579	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	772779	49.37	ug/l	0.00
Spiked Amount			Recovery	=	98.74%	
35) Dibromofluoromethane	7.59	113	102358	6.63	ug/l	0.00
Spiked Amount			Recovery	=	13.26%	
50) Toluene-d8	10.09	98	2570767	43.75	ug/l	0.00
Spiked Amount			Recovery	=	87.50%	
62) 4-Bromofluorobenzene	12.40	95	736872	37.93	ug/l	0.00
Spiked Amount			Recovery	=	75.86%	

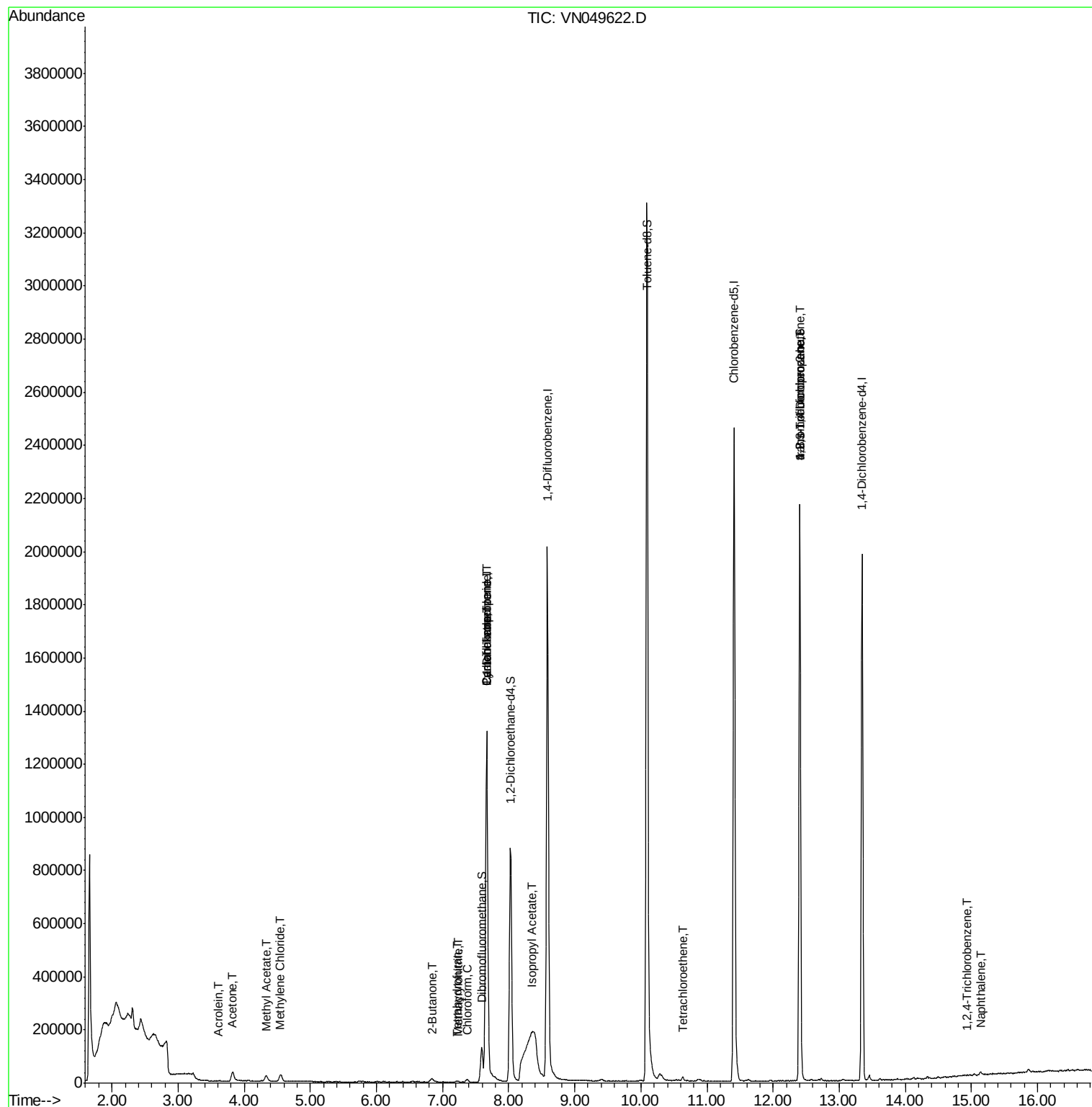
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	1826	1.90	ug/l	91
16) Acetone	3.82	43	67512	17.77	ug/l	96
18) Methyl Acetate	4.33	43	18289	1.58	ug/l	98
20) Methylene Chloride	4.54	84	19566	1.23	ug/l	88
25) 2-Butanone	6.84	43	5896	1.16	ug/l	96
29) Tetrahydrofuran	7.21	42	1587	0.48	ug/l #	88
30) Chloroform	7.37	83	9930	0.37	ug/l	100
31) Cyclohexane	7.66	56	21677	0.76	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	80462	3.68	ug/l #	50
38) Carbon Tetrachloride	7.67	117	106359	4.70	ug/l #	18
41) Methacrylonitrile	7.22	41	2332	0.36	ug/l #	100
43) Isopropyl Acetate	8.36	43	490509	21.60	ug/l #	64
64) Tetrachloroethene	10.63	164	3598	0.22	ug/l	90
75) 1,1,2,2-Tetrachloroethane	12.48	83	61	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	361797	36.46	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	361797	115.23	ug/l #	9
90) Hexachloroethane	14.00	117	96	Below Cal	#	9
93) 1,2,4-Trichlorobenzene	14.92	180	71	4.75	ug/l #	85
95) Naphthalene	15.14	128	8375	2.60	ug/l	96

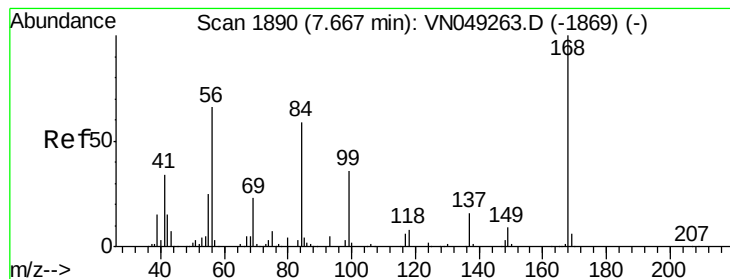
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049622.D

Acq: 29 Jun 2018 6:00

Instrument :

MSVOA_N

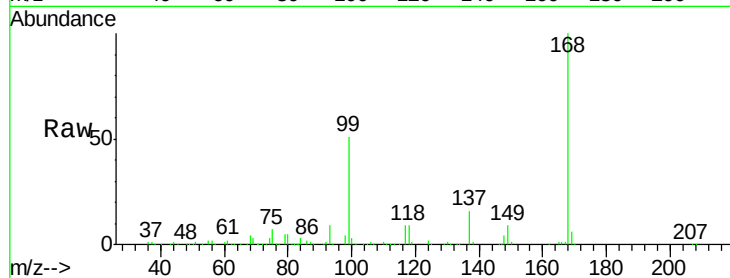
ClientSampleId :

Tot Ion:168 Resp: 1180067

Ion Ratio Lower Upper

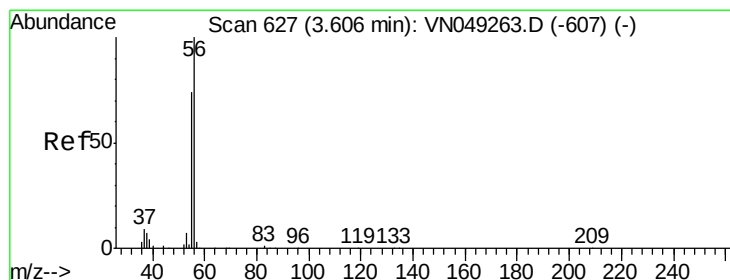
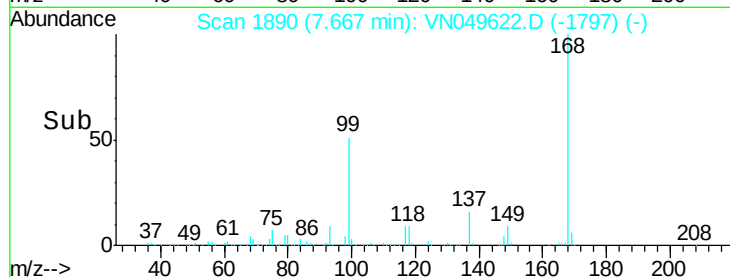
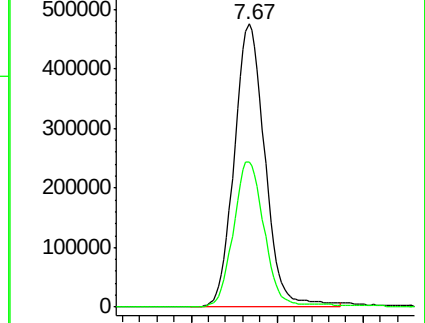
168 100

99 51.5 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#13

Acrolein

Concen: 1.90 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN049622.D

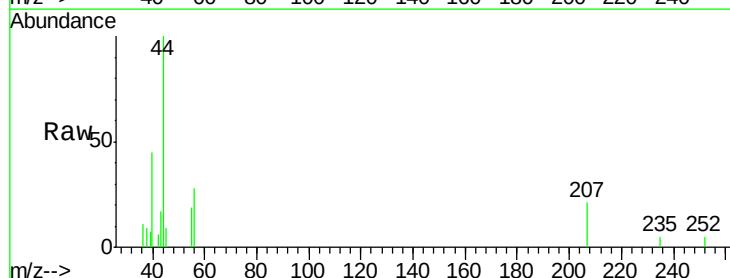
Acq: 29 Jun 2018 6:00

Tgt Ion: 56 Resp: 1826

Ion Ratio Lower Upper

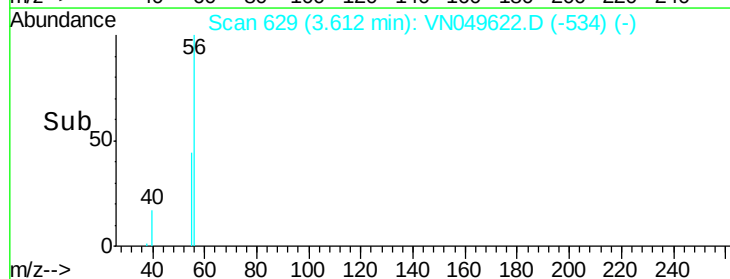
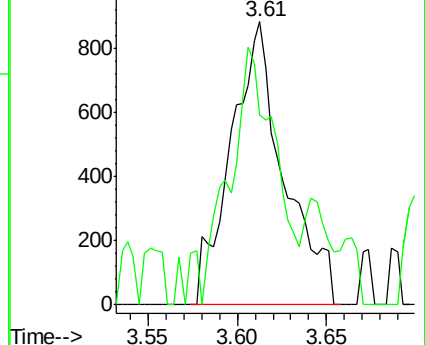
56 100

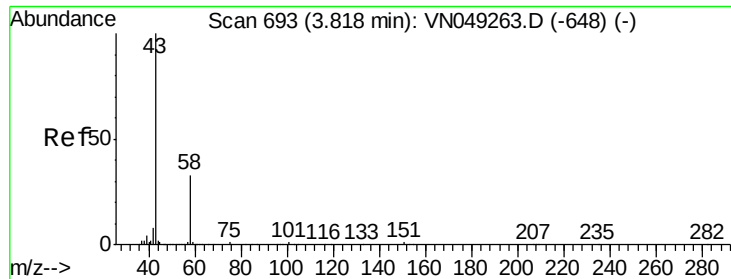
55 79.2 57.1 85.7



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 17.77 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN049622.D

Acq: 29 Jun 2018 6:00

Instrument :

MSVOA_N

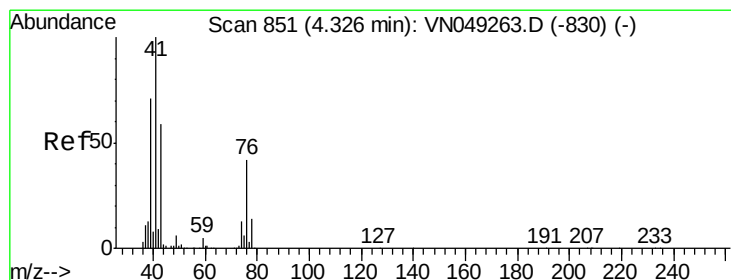
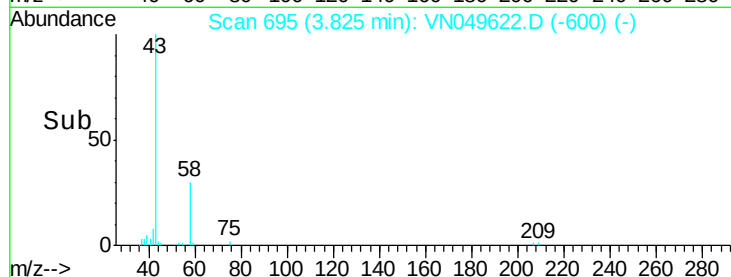
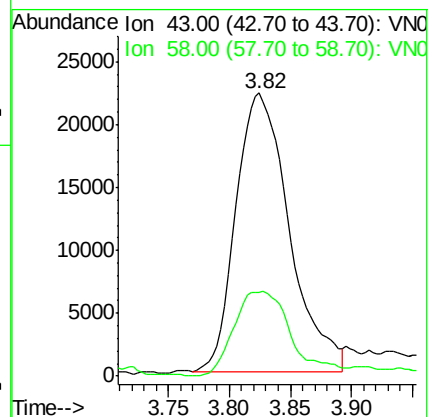
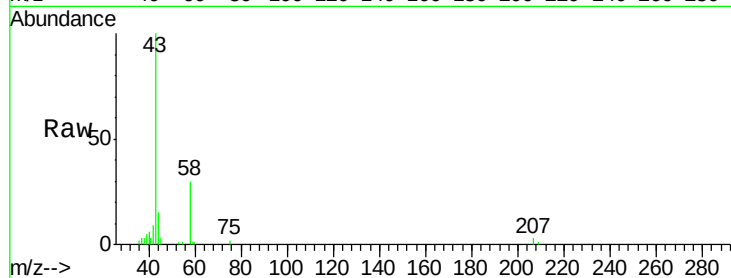
ClientSampled :

Tot Ion: 43 Resp: 67512

Ion Ratio Lower Upper

43 100

58 30.2 22.4 33.6



#18

Methyl Acetate

Concen: 1.58 ug/l

RT: 4.33 min Scan# 851

Delta R.T. 0.00 min

Lab File: VN049622.D

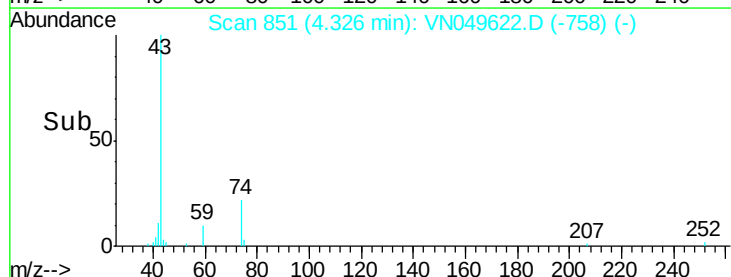
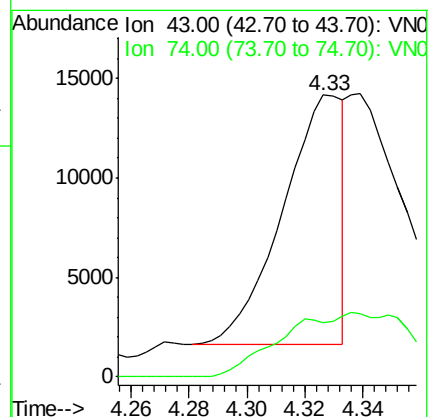
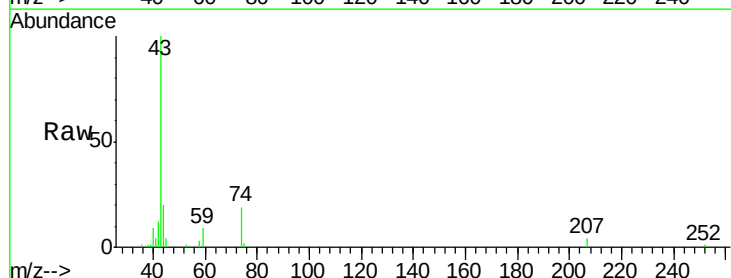
Acq: 29 Jun 2018 6:00

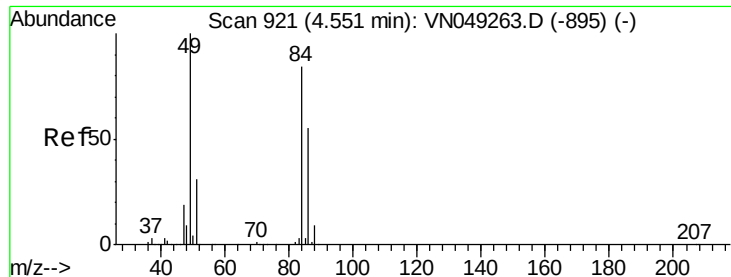
Tgt Ion: 43 Resp: 18289

Ion Ratio Lower Upper

43 100

74 20.9 17.4 26.0

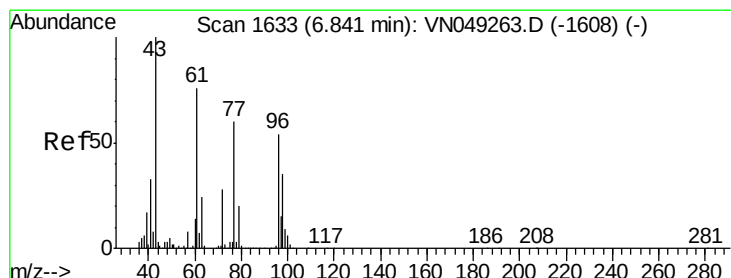
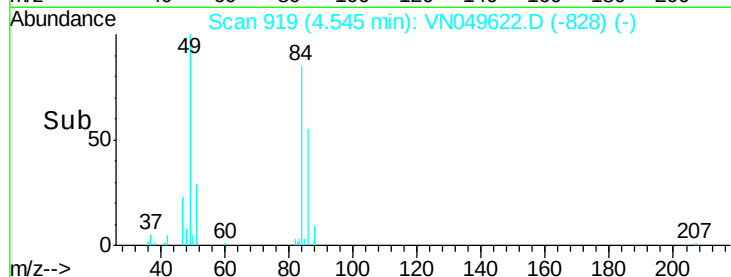
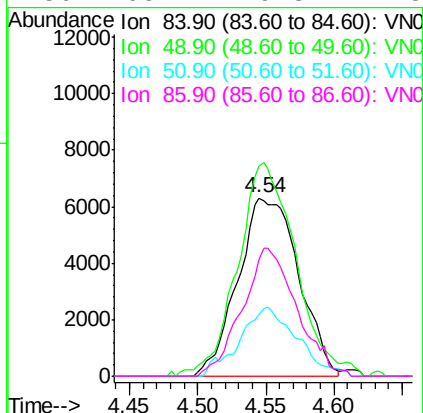
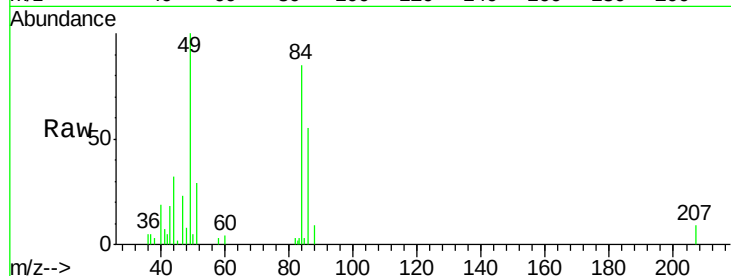




#20
Methvlene Chloride
Concen: 1.23 ug/l
RT: 4.54 min Scan# 919
Delta R.T. -0.01 min
Lab File: VN049622.D
Acq: 29 Jun 2018 6:00

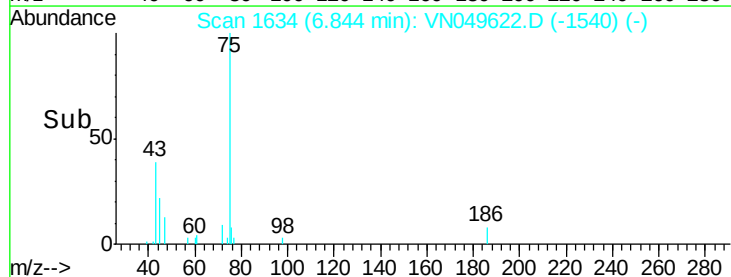
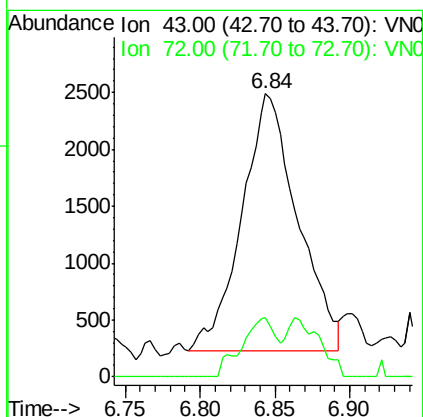
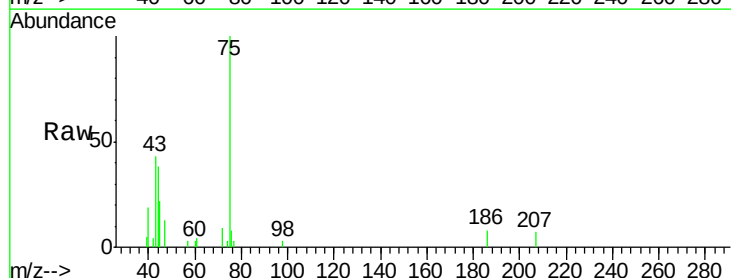
Instrument :
MSVOA_N
ClientSampled :

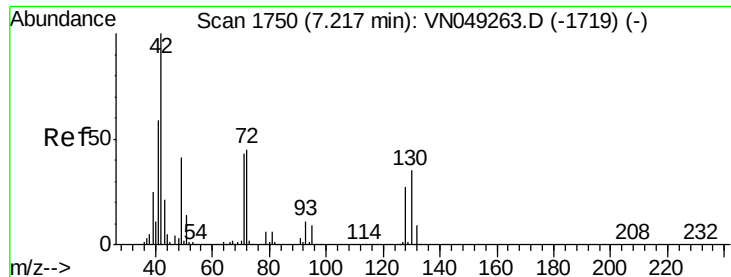
Tot Ion:	84	Resp:	19566
Ion	Ratio	Lower	Upper
84	100		
49	114.3	106.9	160.3
51	34.7	32.7	49.1
86	65.4	49.8	74.8



#25
2-Butanone
Concen: 1.16 ug/l
RT: 6.84 min Scan# 1634
Delta R.T. 0.00 min
Lab File: VN049622.D
Acq: 29 Jun 2018 6:00

Tgt Ion:	43	Resp:	5896
Ion	Ratio	Lower	Upper
43	100		
72	23.1	20.2	30.2

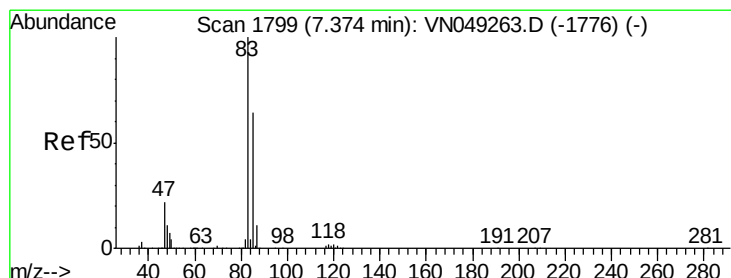
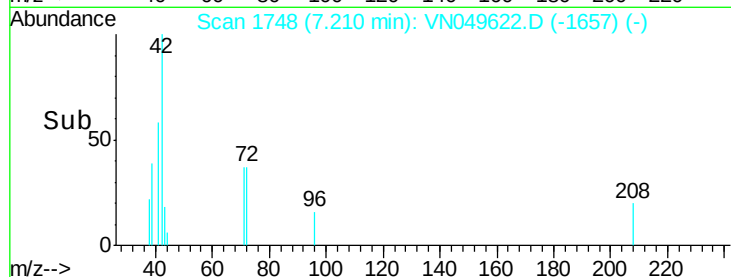
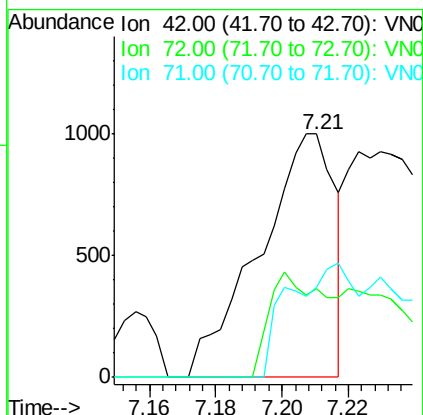
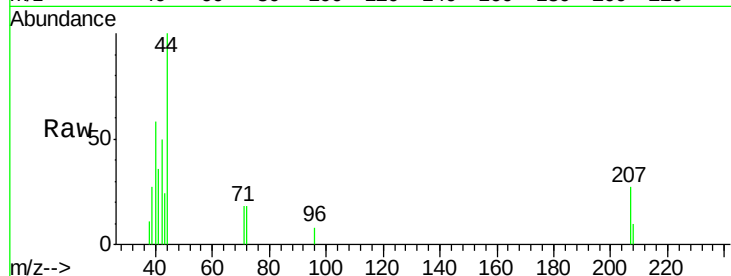




#29
Tetrahydrofuran
Concen: 0.48 ug/l
RT: 7.21 min Scan# 1748
Delta R.T. -0.01 min
Lab File: VN049622.D
Acq: 29 Jun 2018 6:00

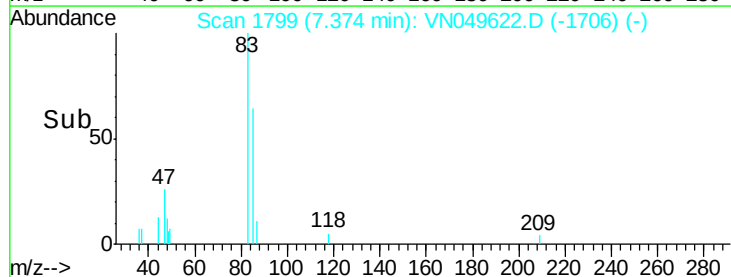
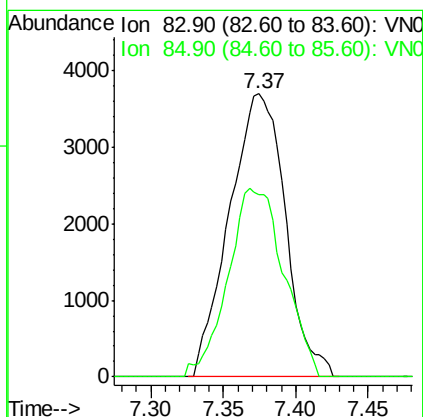
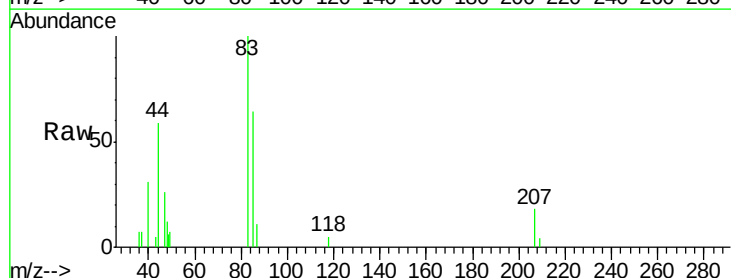
Instrument :
MSVOA_N
ClientSampled :

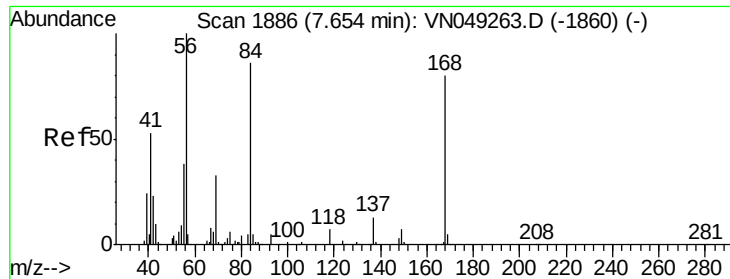
Tot Ion: 42 Resp: 1587
Ion Ratio Lower Upper
42 100
72 29.0 32.2 48.4#
71 40.9 30.5 45.7



#30
Chloroform
Concen: 0.37 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN049622.D
Acq: 29 Jun 2018 6:00

Tgt Ion: 83 Resp: 9930
Ion Ratio Lower Upper
83 100
85 64.3 51.7 77.5

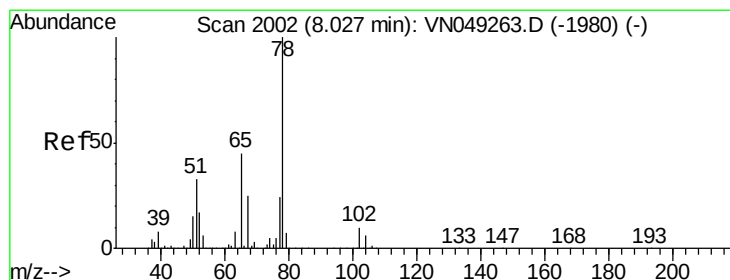
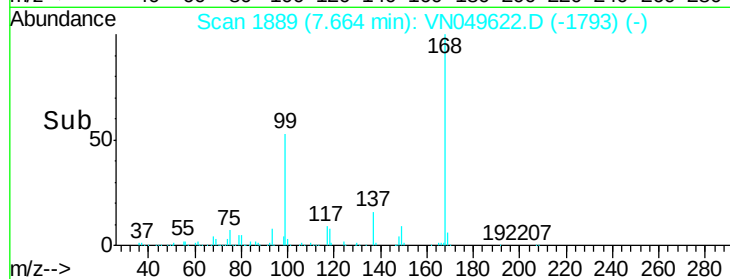
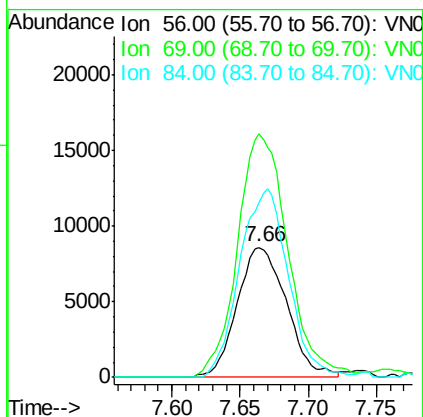
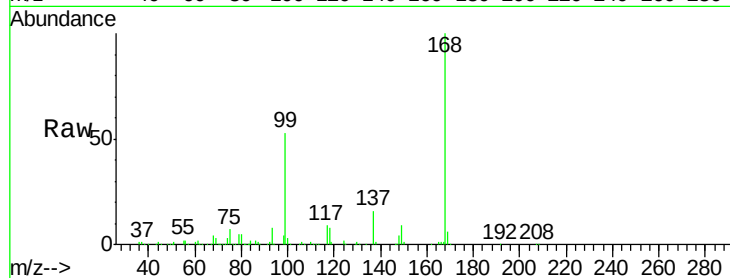




#31
Cyclohexane
Concen: 0.76 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN049622.D
Acq: 29 Jun 2018 6:00

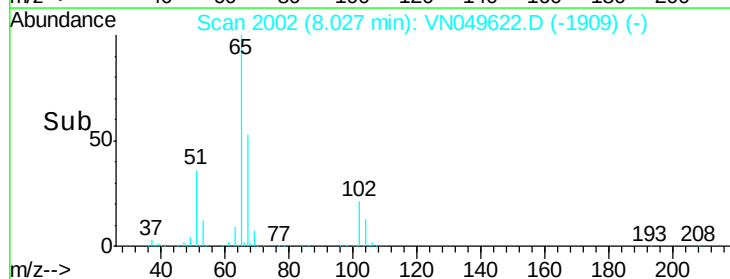
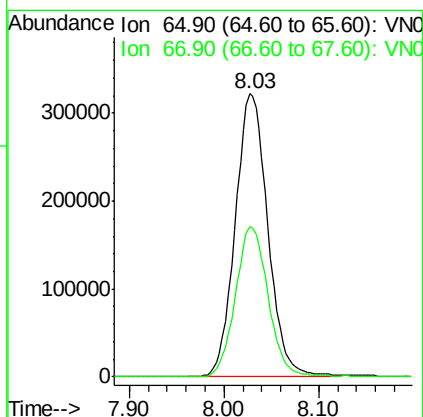
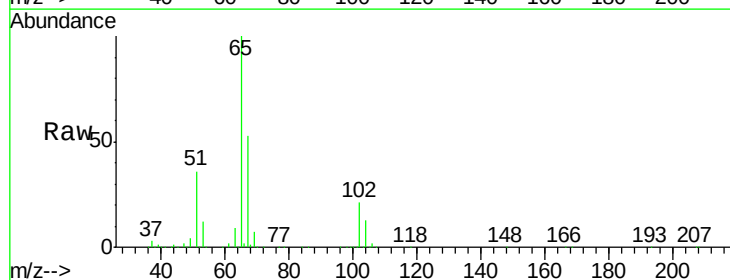
Instrument :
MSVOA_N
ClientSampled :

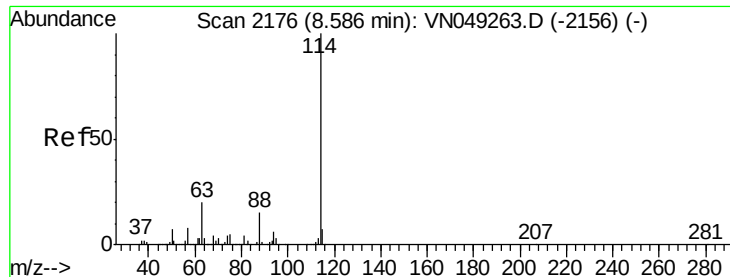
Tot Ion: 56 Resp: 21677
Ion Ratio Lower Upper
56 100
69 187.2 25.0 37.4#
84 134.2 64.6 96.8#



#33
1,2-Dichloroethane-d4
Concen: 49.37 ug/l
RT: 8.03 min Scan# 2002
Delta R.T. 0.00 min
Lab File: VN049622.D
Acq: 29 Jun 2018 6:00

Tgt Ion: 65 Resp: 772779
Ion Ratio Lower Upper
65 100
67 53.1 0.0 103.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN049622.D

Acq: 29 Jun 2018 6:00

Instrument :

MSVOA_N

ClientSampleId :

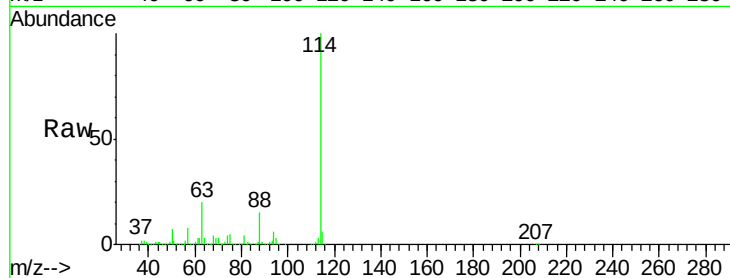
Tot Ion:114 Resp: 1907465

Ion Ratio Lower Upper

114 100

63 19.6 0.0 44.4

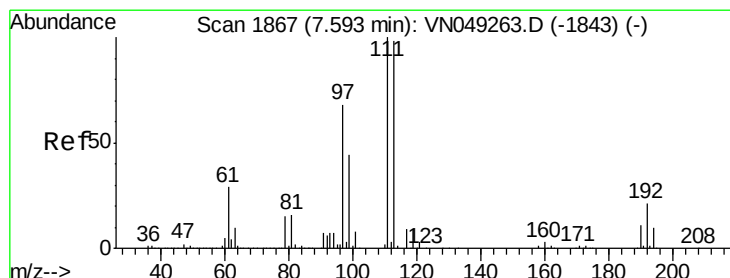
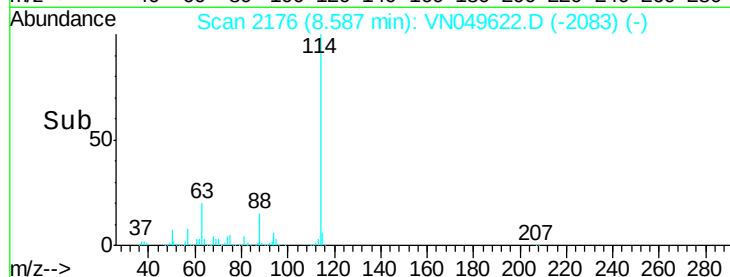
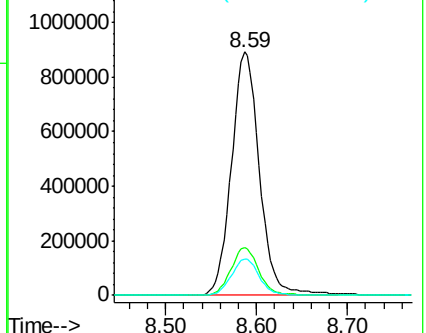
88 15.1 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 6.63 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN049622.D

Acq: 29 Jun 2018 6:00

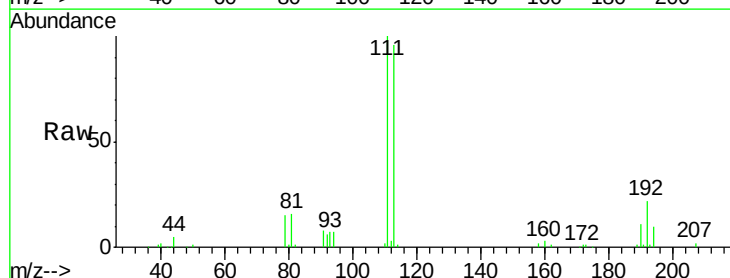
Tgt Ion:113 Resp: 102358

Ion Ratio Lower Upper

113 100

111 103.9 82.4 123.6

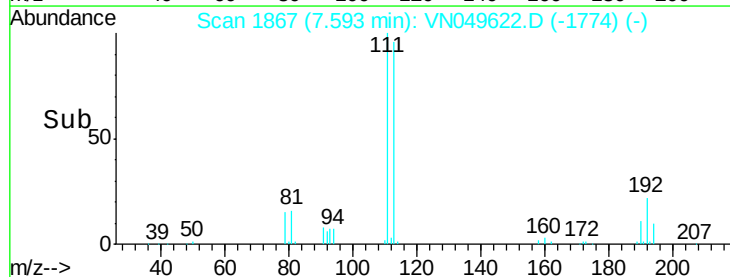
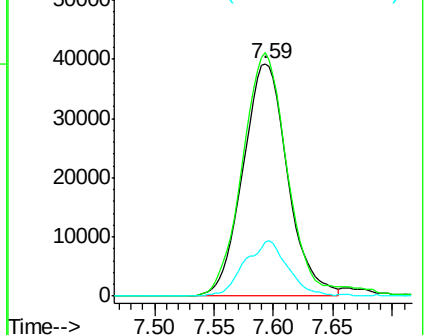
192 22.9 15.0 22.6#

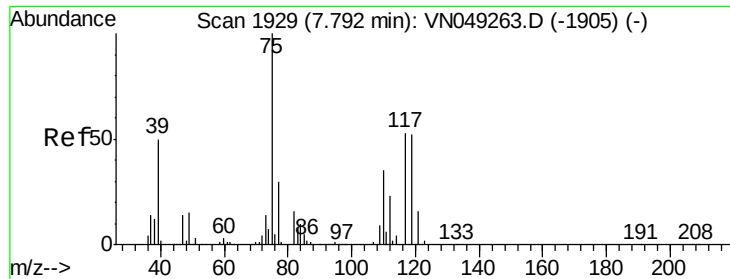


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

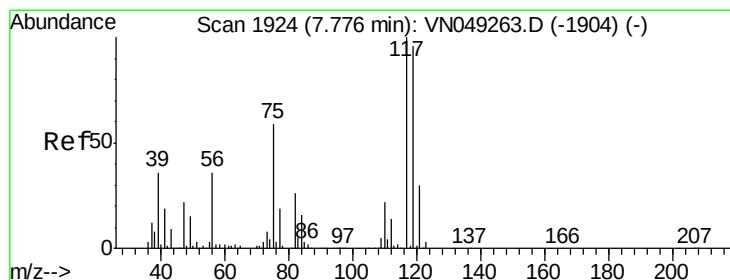
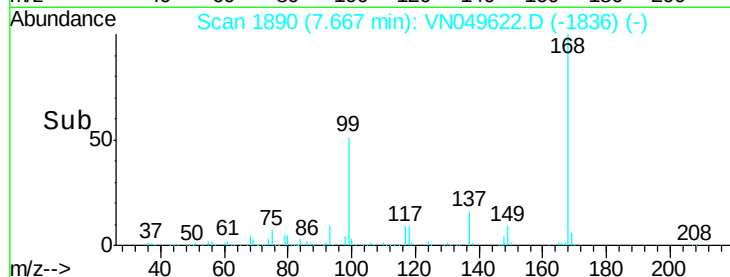
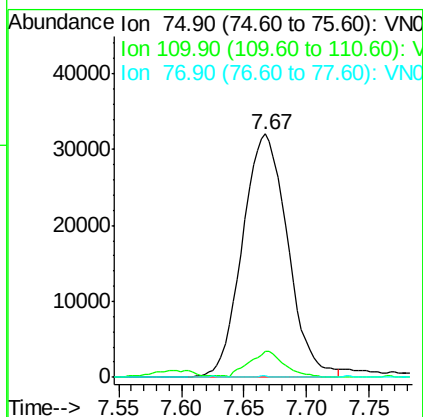
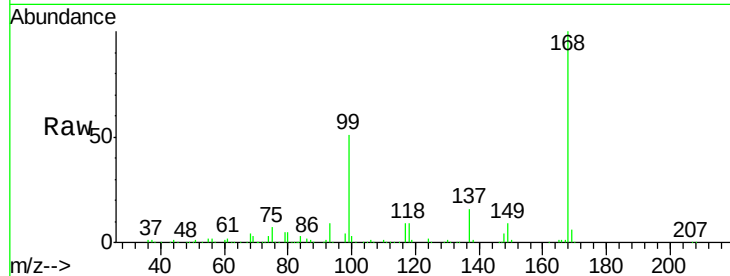




#36
 1,1-Dichloropropene
 Concen: 3.68 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049622.D
 Acq: 29 Jun 2018 6:00

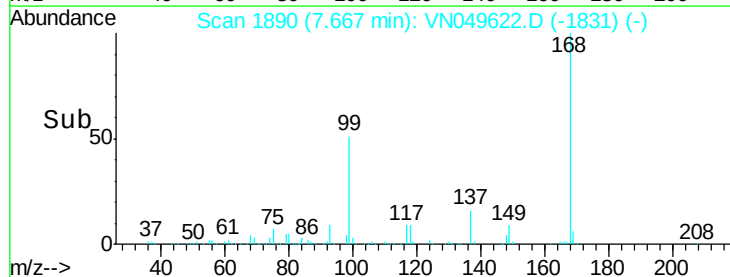
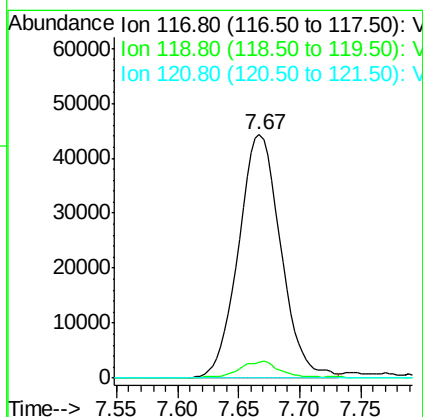
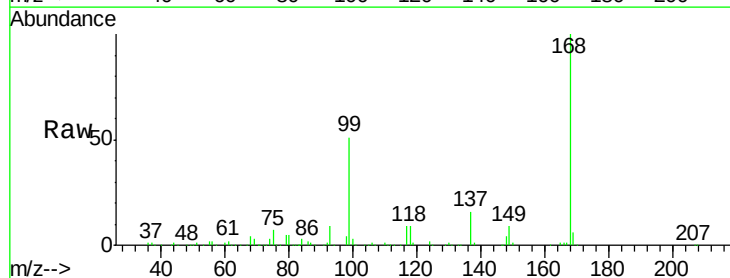
Instrument :
 MSVOA_N
 ClientSampleId :

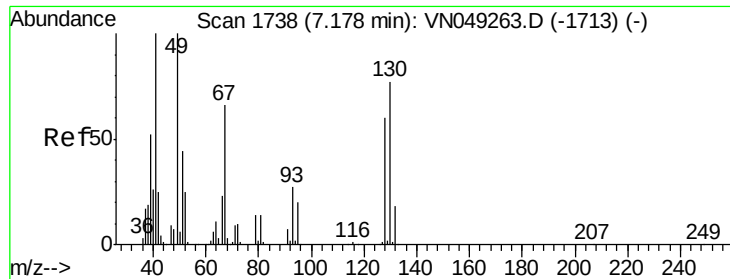
Tot Ion	75	Resp	80462
Ion Ratio	100	Lower	Upper
75	100		
110	8.4	17.0	50.9#
77	0.1	24.4	36.6#



#38
 Carbon Tetrachloride
 Concen: 4.70 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN049622.D
 Acq: 29 Jun 2018 6:00

Tgt Ion	117	Resp	106359
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	6.4	75.6	113.4#
121	0.0	24.7	37.1#

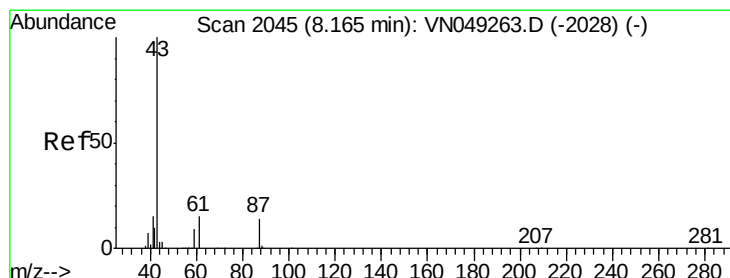
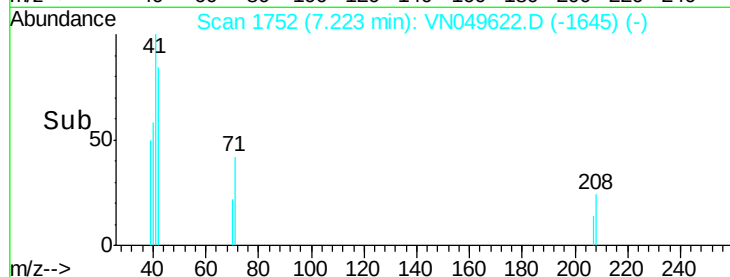
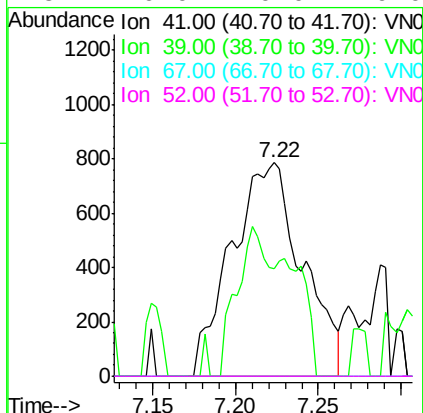
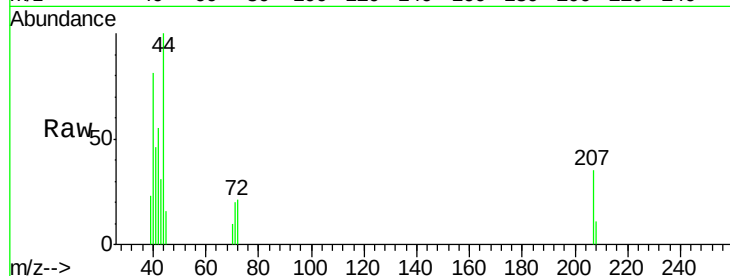




#41
Methacrylonitrile
Concen: 0.36 ug/l
RT: 7.22 min Scan# 1752
Delta R.T. 0.05 min
Lab File: VN049622.D
Acq: 29 Jun 2018 6:00

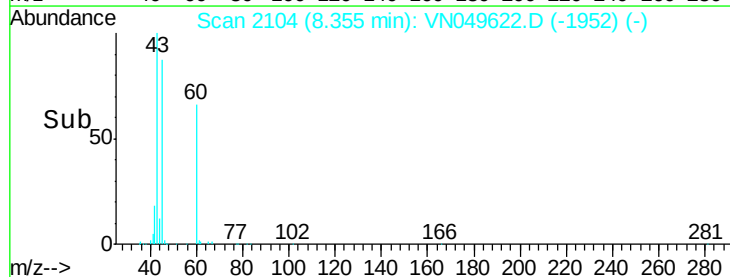
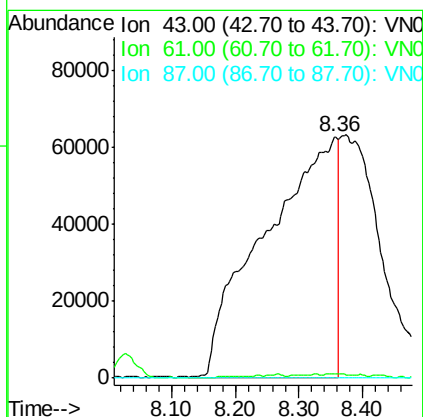
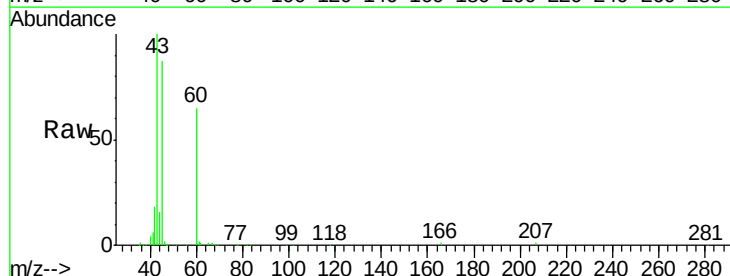
Instrument :
MSVOA_N
ClientSampled :

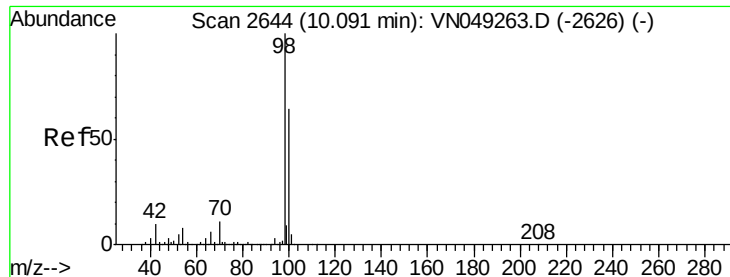
Tot Ion:	41	Resp:	2332
Ion	Ratio	Lower	Upper
41	100		
39	32.6	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 21.60 ug/l
RT: 8.36 min Scan# 2104
Delta R.T. 0.19 min
Lab File: VN049622.D
Acq: 29 Jun 2018 6:00

Tgt Ion:	43	Resp:	490509
Ion	Ratio	Lower	Upper
43	100		
61	0.0	14.2	21.4#
87	0.0	9.4	14.0#

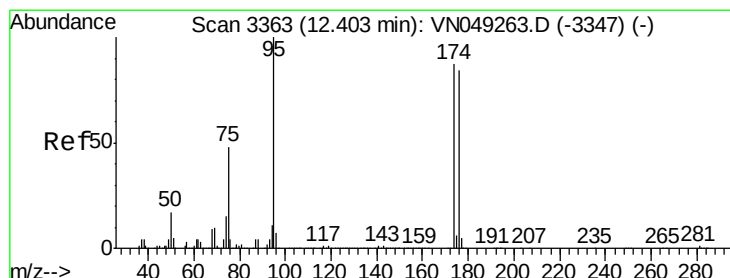
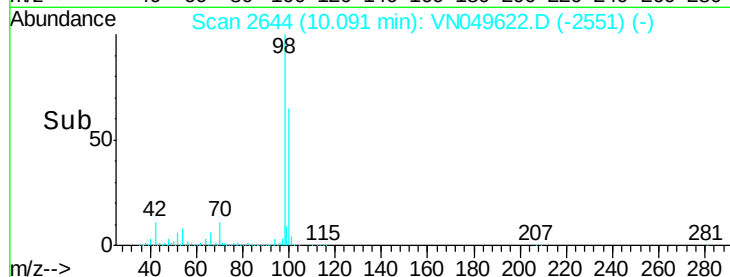
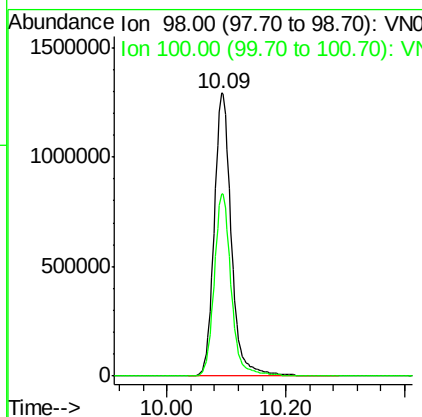
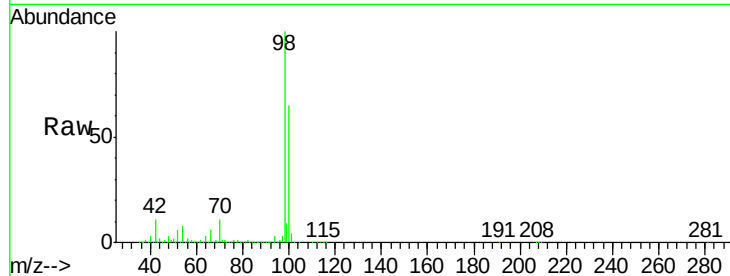




#50
Toluene-d8
Concen: 43.75 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049622.D
Acq: 29 Jun 2018 6:00

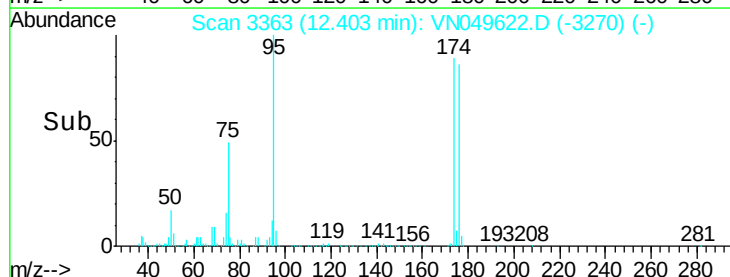
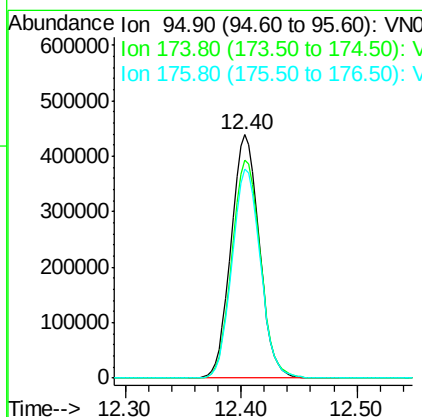
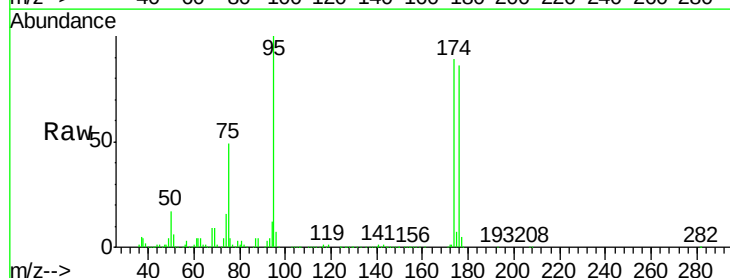
Instrument :
MSVOA_N
ClientSampled :

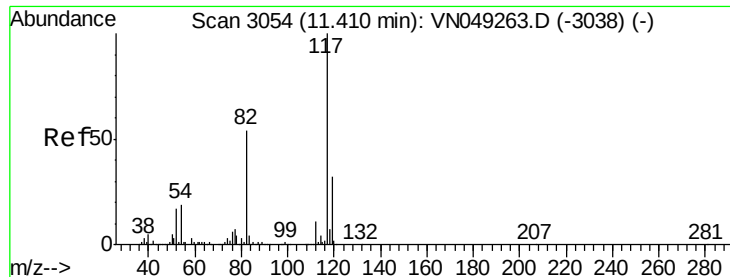
Tot Ion: 98 Resp: 2570767
Ion Ratio Lower Upper
98 100
100 63.9 49.8 74.8



#62
4-Bromofluorobenzene
Concen: 37.93 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN049622.D
Acq: 29 Jun 2018 6:00

Tgt Ion: 95 Resp: 736872
Ion Ratio Lower Upper
95 100
174 90.5 0.0 165.6
176 86.2 0.0 157.4

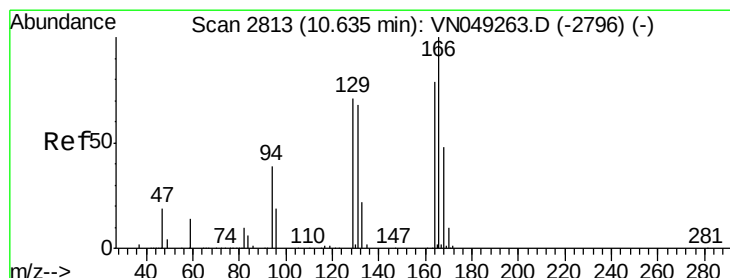
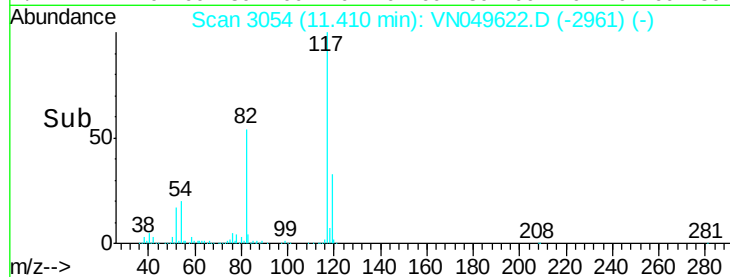
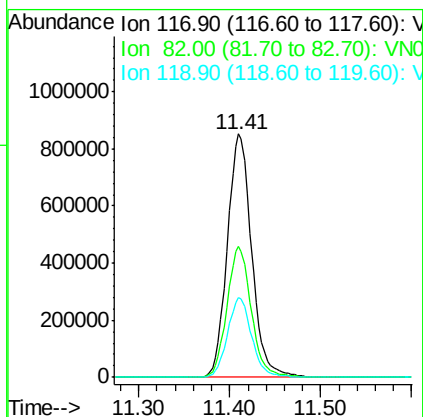
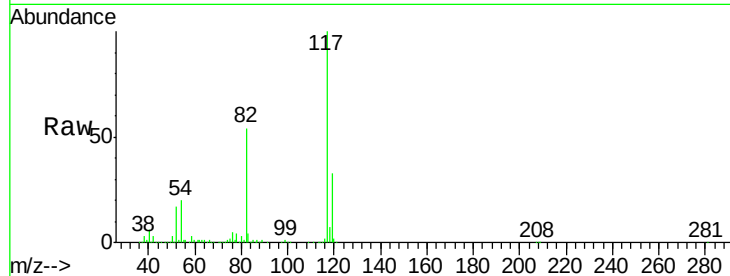




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049622.D
Acq: 29 Jun 2018 6:00

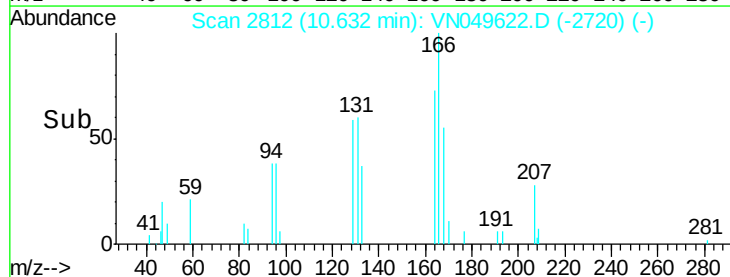
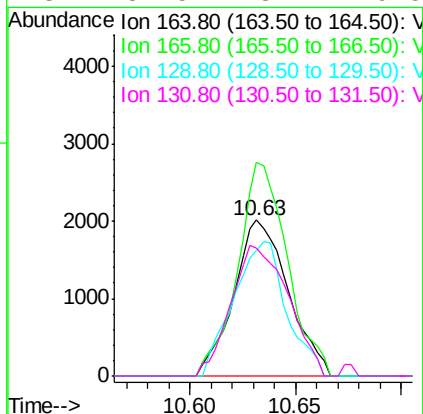
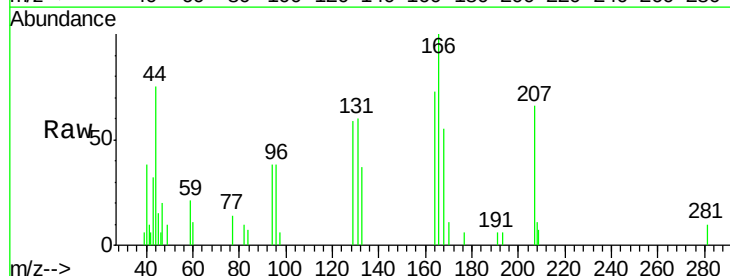
Instrument :
MSVOA_N
ClientSampleId :

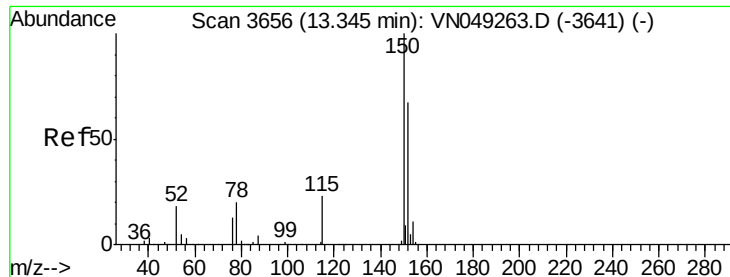
Tot Ion:117 Resp: 1582220
Ion Ratio Lower Upper
117 100
82 53.7 45.9 68.9
119 32.5 25.5 38.3



#64
Tetrachloroethene
Concen: 0.22 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. -0.00 min
Lab File: VN049622.D
Acq: 29 Jun 2018 6:00

Tgt Ion:164 Resp: 3598
Ion Ratio Lower Upper
164 100
166 137.3 101.4 152.2
129 80.9 74.1 111.1
131 82.5 73.7 110.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN049622.D

Acq: 29 Jun 2018 6:00

Instrument :

MSVOA_N

ClientSampled :

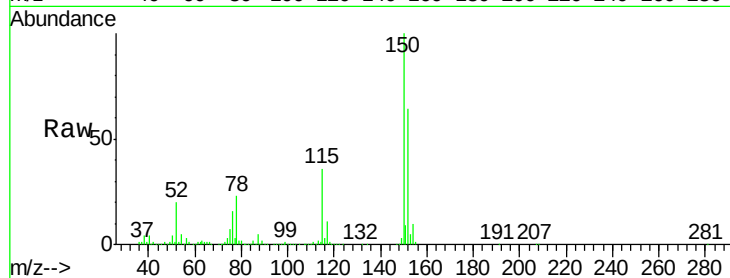
Tot Ion:152 Resp: 581579

Ion Ratio Lower Upper

152 100

115 56.3 28.7 86.1

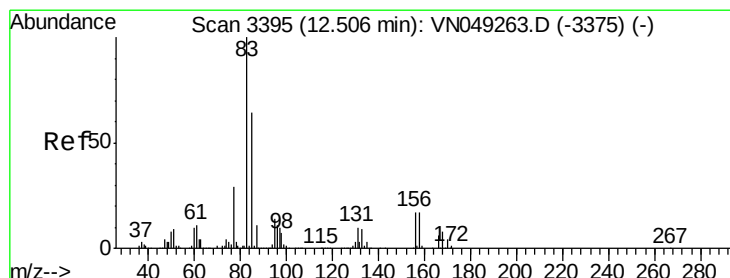
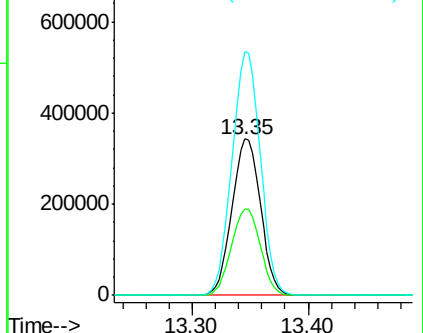
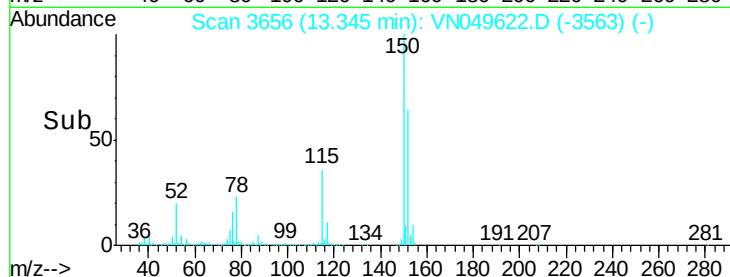
150 154.8 0.0 351.0



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: 12.48 min Scan# 3386

Delta R.T. -0.03 min

Lab File: VN049622.D

Acq: 29 Jun 2018 6:00

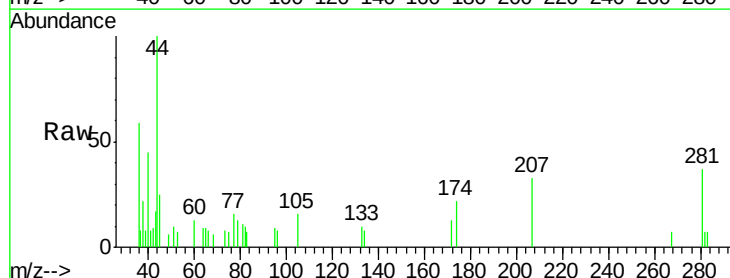
Tgt Ion: 83 Resp: 61

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

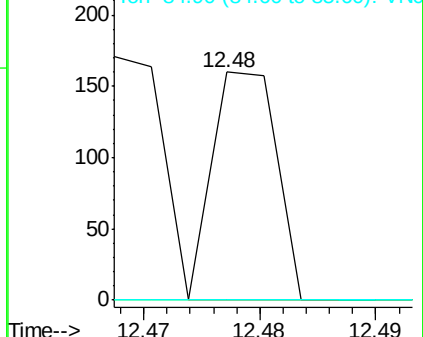
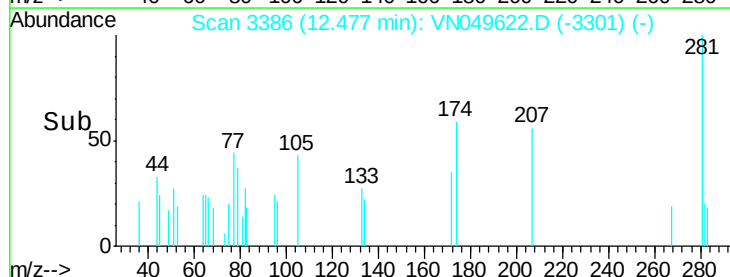
85 0.0 32.0 96.0#

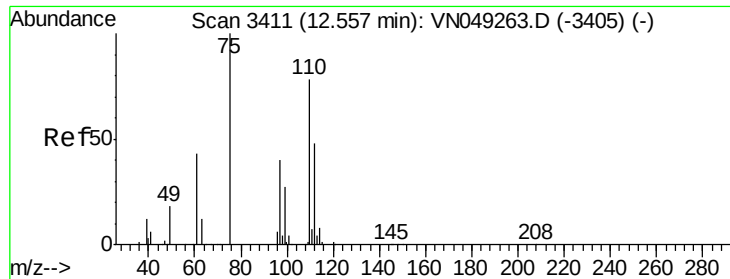


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 36.46 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049622.D

Acq: 29 Jun 2018 6:00

Instrument :

MSVOA_N

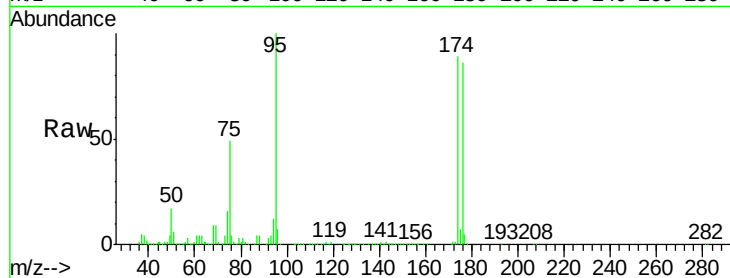
ClientSampled :

Tot Ion: 75 Resp: 361797

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

250000

200000

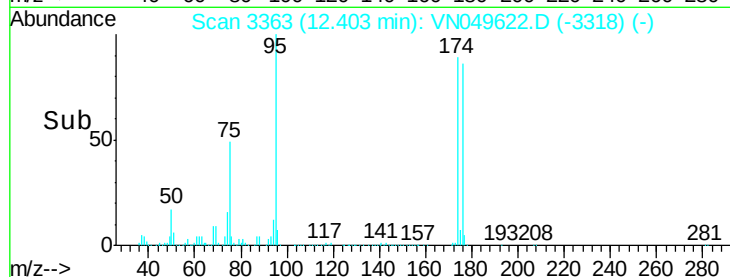
150000

100000

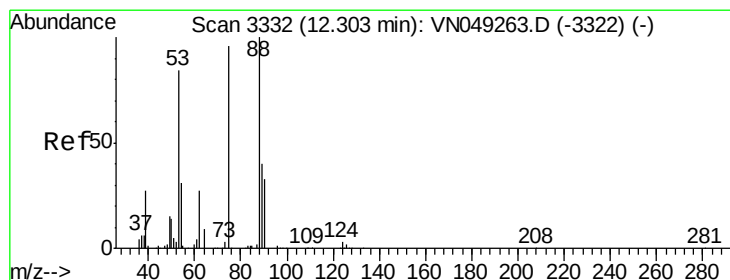
50000

0

12.30 12.40 12.50



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 115.23 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049622.D

Acq: 29 Jun 2018 6:00

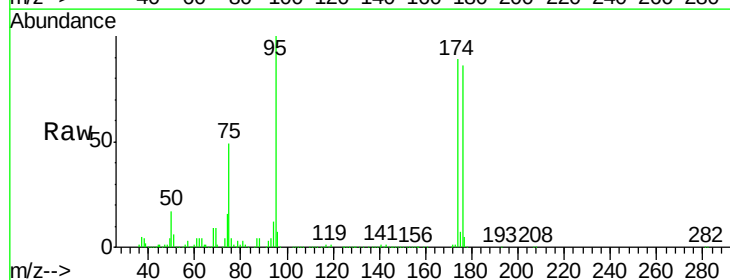
Tgt Ion: 75 Resp: 361797

Ion Ratio Lower Upper

75 100

53 0.3 82.7 124.1#

89 0.0 36.5 54.7#



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

250000

200000

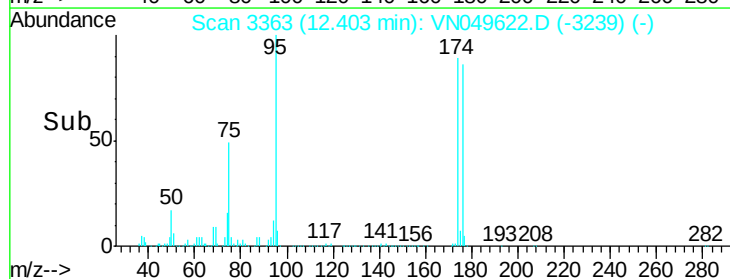
150000

100000

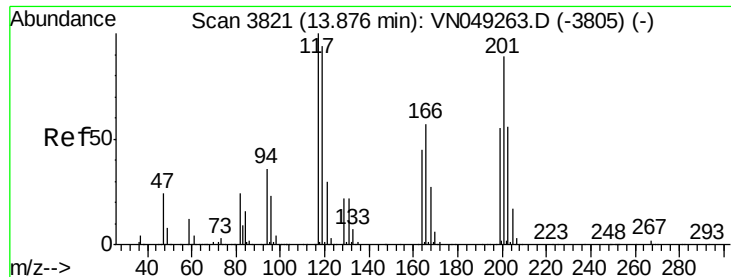
50000

0

12.30 12.40 12.50



Time-->



#90

Hexachloroethane

Concen: Below Cal

RT: 14.00 min Scan# 3859

Delta R.T. 0.12 min

Lab File: VN049622.D

Acq: 29 Jun 2018 6:00

Instrument :

MSVOA_N

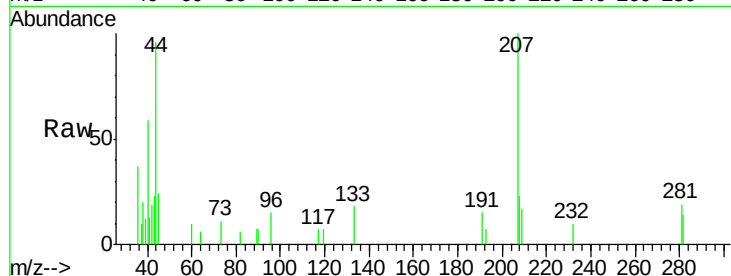
ClientSampled :

Tot Ion:117 Resp: 96

Ion Ratio Lower Upper

117 100

201 0.0 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

14.00

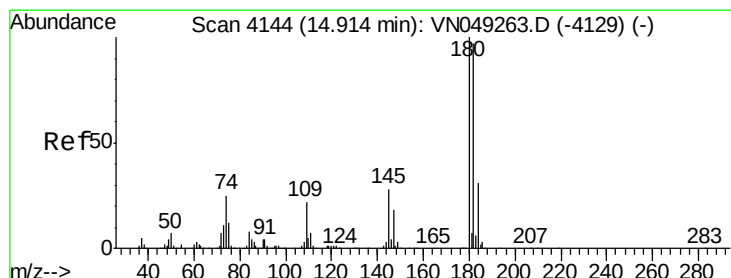
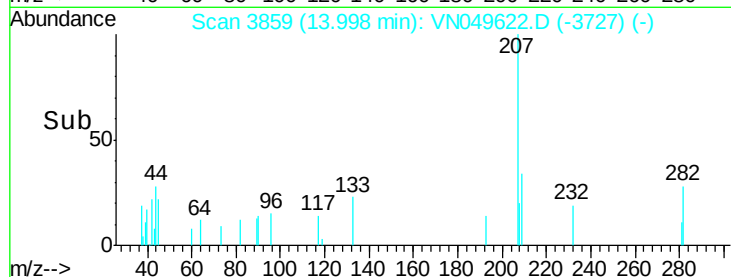
150

100

50

0

Time--> 13.98 13.99 14.00 14.01



#93

1,2,4-Trichlorobenzene

Concen: 4.75 ug/l

RT: 14.92 min Scan# 4145

Delta R.T. 0.00 min

Lab File: VN049622.D

Acq: 29 Jun 2018 6:00

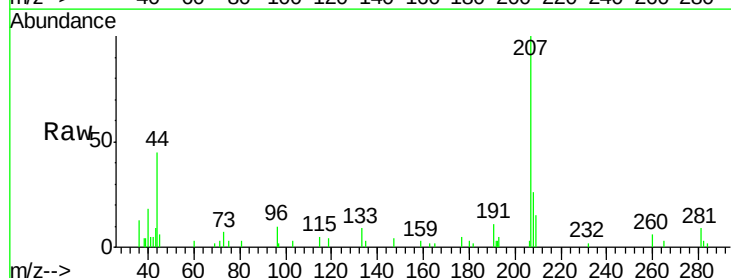
Tgt Ion:180 Resp: 71

Ion Ratio Lower Upper

180 100

182 91.5 46.9 140.8

145 0.0 14.7 44.1#



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

14.92

250

200

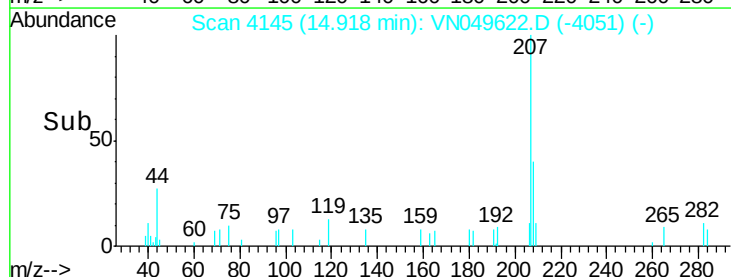
150

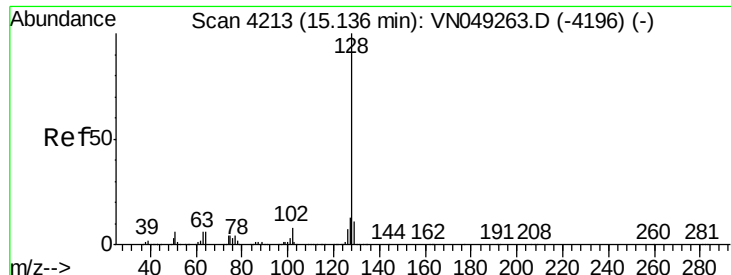
100

50

0

Time--> 14.91 14.92 14.93

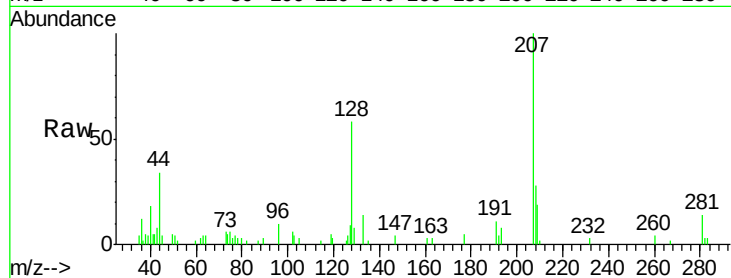




#95
Naphthalene
Concen: 2.60 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN049622.D
Acq: 29 Jun 2018 6:00

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.9	10.6	16.0
129	12.3	8.5	12.7



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

