

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061818\
 Data File : VN049356.D
 Acq On : 18 Jun 2018 20:48
 Operator : MD\SY
 Sample : PB110313ZHE#09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 19 01:35:43 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	1204379	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1935614	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1549243	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	468978	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	811813	50.82	ug/l	0.00
Spiked Amount			Recovery	=	101.64%	
35) Dibromofluoromethane	7.59	113	716207	45.73	ug/l	0.00
Spiked Amount			Recovery	=	91.46%	
50) Toluene-d8	10.09	98	2580598	43.28	ug/l	0.00
Spiked Amount			Recovery	=	86.56%	
62) 4-Bromofluorobenzene	12.41	95	663175	33.64	ug/l	0.00
Spiked Amount			Recovery	=	67.28%	

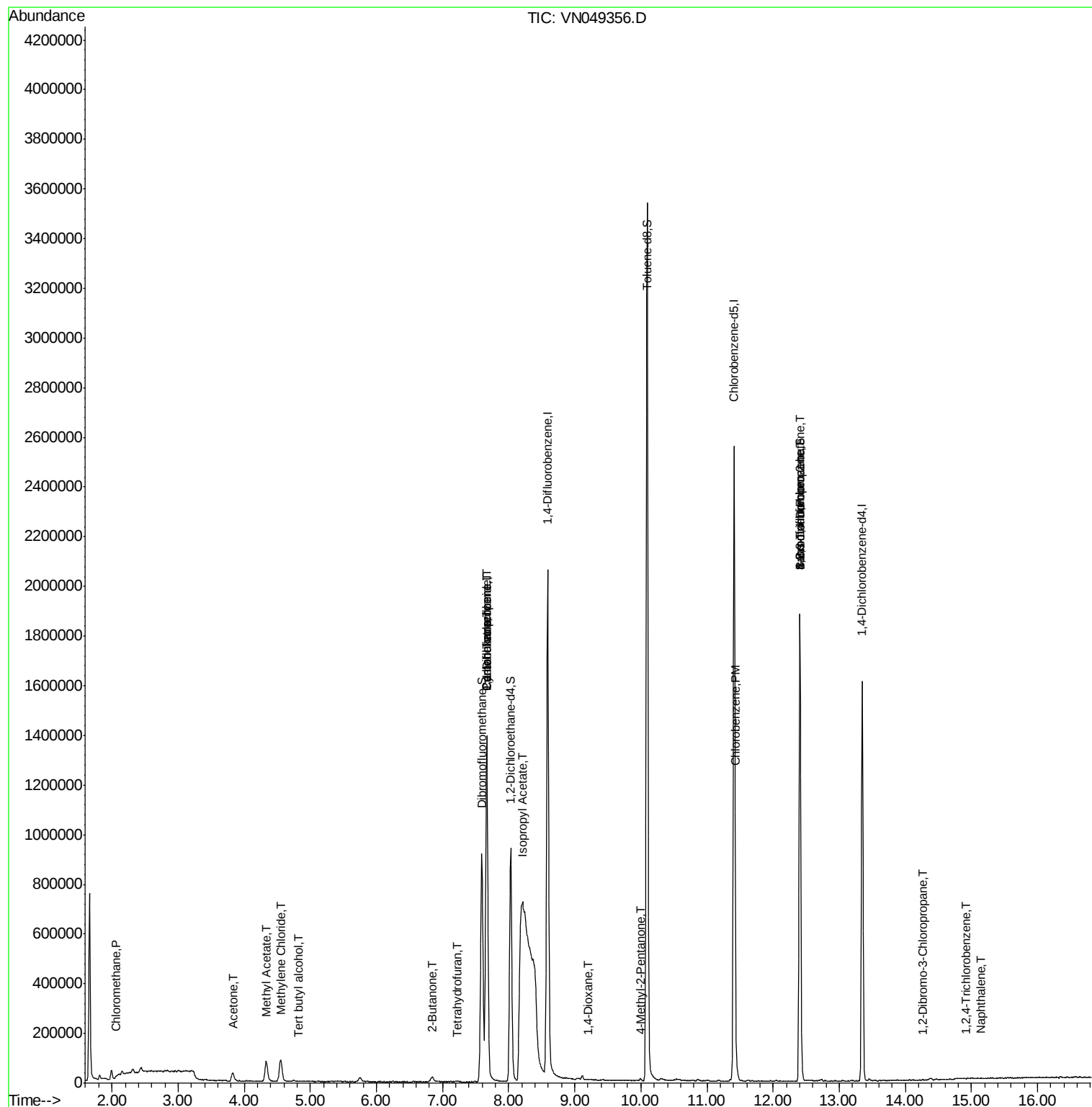
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	3898	0.22	ug/l	99
11) Tert butyl alcohol	4.81	59	575	0.61	ug/l	# 70
16) Acetone	3.83	43	56619	14.60	ug/l	93
18) Methyl Acetate	4.33	43	159617	13.50	ug/l	94
20) Methylene Chloride	4.55	84	67357	4.16	ug/l	94
25) 2-Butanone	6.85	43	8525	1.64	ug/l	92
29) Tetrahydrofuran	7.23	42	886	0.26	ug/l	# 79
31) Cyclohexane	7.67	56	21748	0.75	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	83445	3.76	ug/l	# 50
38) Carbon Tetrachloride	7.67	117	108558	4.73	ug/l	# 18
43) Isopropyl Acetate	8.21	43	1036747	44.99	ug/l	# 64
49) 1,4-Dioxane	9.22	88	312	2.08	ug/l	# 1
51) 4-Methyl-2-Pentanone	9.99	43	6071	0.50	ug/l	# 80
65) Chlorobenzene	11.44	112	23109	0.58	ug/l	99
71) Bromoform	12.41	173	3105	0.32	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.51	83	250	Below	Cal	# 26
76) 1,2,3-Trichloropropane	12.41	75	318094	39.75	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.41	75	318094	125.64	ug/l	# 9
90) Hexachloroethane	13.65	117	58	Below	Cal	# 9
92) 1,2-Dibromo-3-Chloropropan	14.26	75	714	0.50	ug/l	# 4
93) 1,2,4-Trichlorobenzene	14.92	180	64	4.75	ug/l	# 13
95) Naphthalene	15.14	128	910	2.15	ug/l	# 90

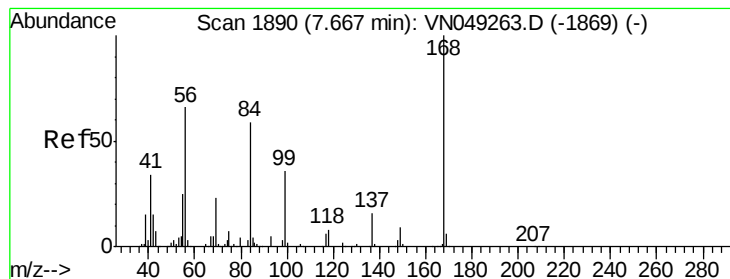
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN061818\
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Acq On : 18 Jun 2018 20:48
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Quant Time: Jun 19 01:35:43 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:02:01 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049356.D

Acq: 18 Jun 2018 20:48

Instrument :

MSVOA_N

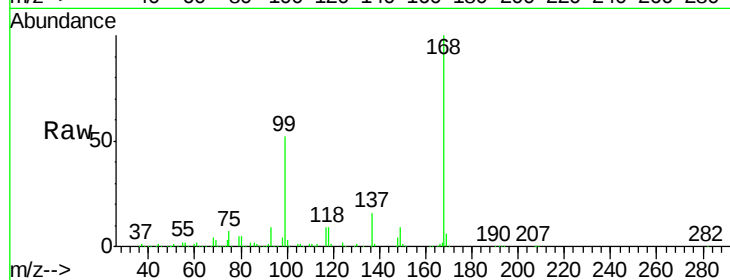
ClientSampleId :

Tot Ion:168 Resp: 1204379

Ion Ratio Lower Upper

168 100

99 51.7 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

500000

400000

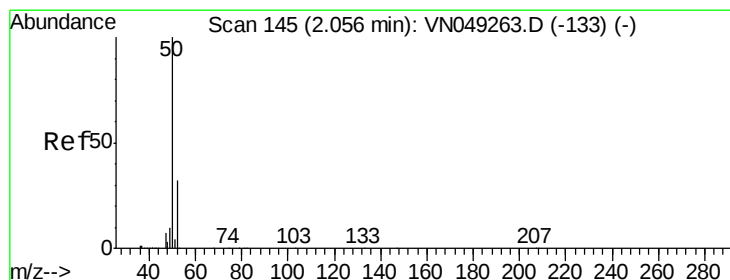
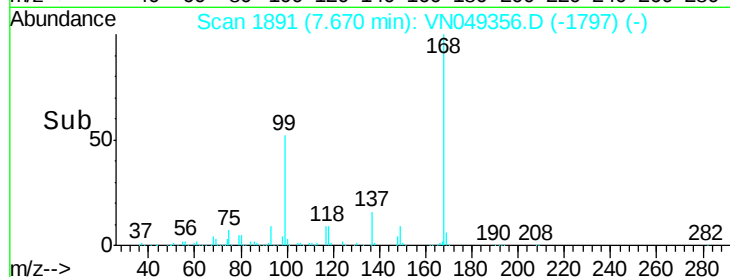
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: 0.22 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN049356.D

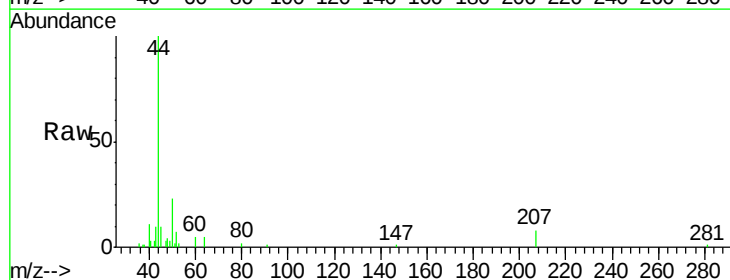
Acq: 18 Jun 2018 20:48

Tgt Ion: 50 Resp: 3898

Ion Ratio Lower Upper

50 100

52 32.2 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

3000

2500

2000

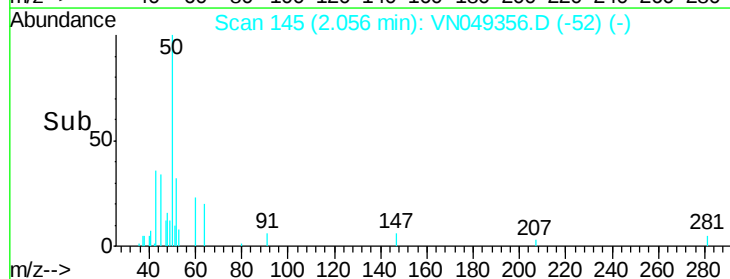
1500

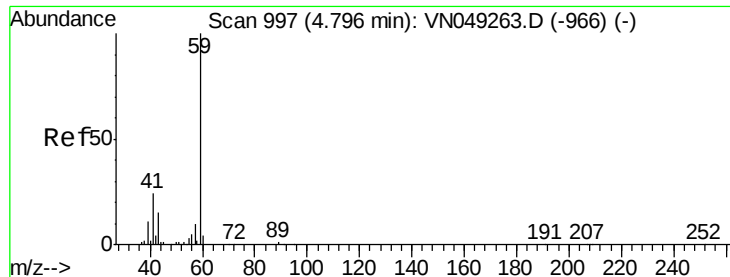
1000

500

0

Time--> 2.00 2.05 2.10



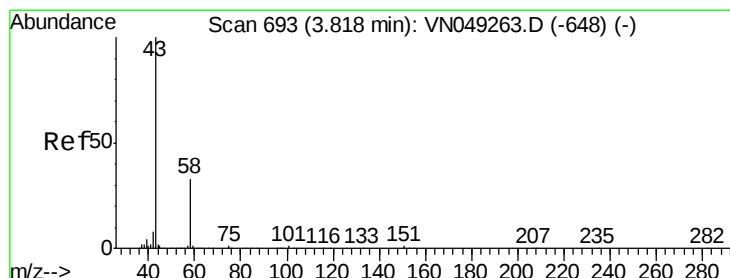
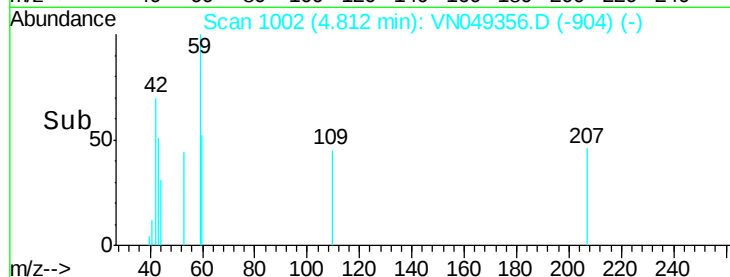
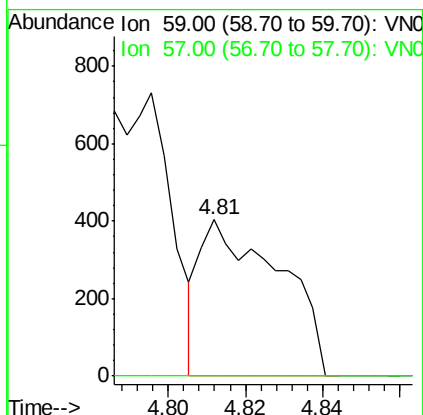
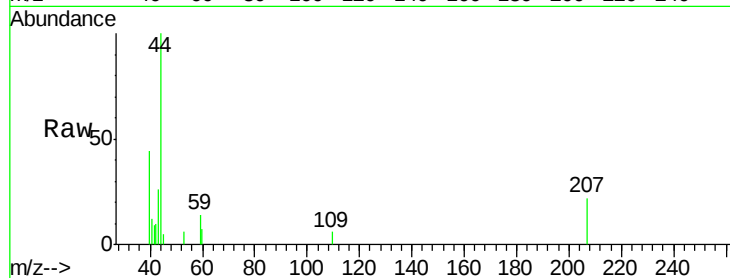


#11

Tert butyl alcohol
 Concen: 0.61 ug/l
 RT: 4.81 min Scan# 1002
 Delta R.T. 0.02 min
 Lab File: VN049356.D
 Acq: 18 Jun 2018 20:48

Instrument :
 MSVOA_N
 ClientSampled :

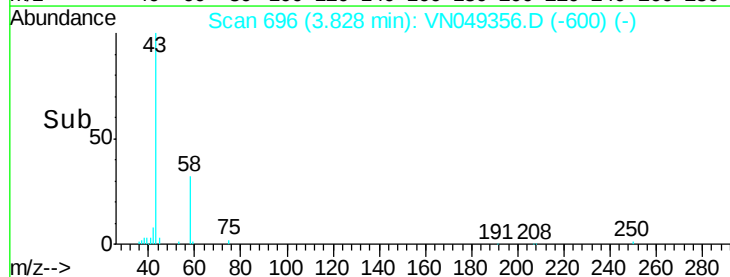
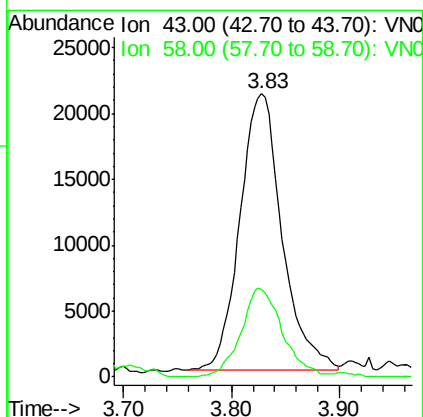
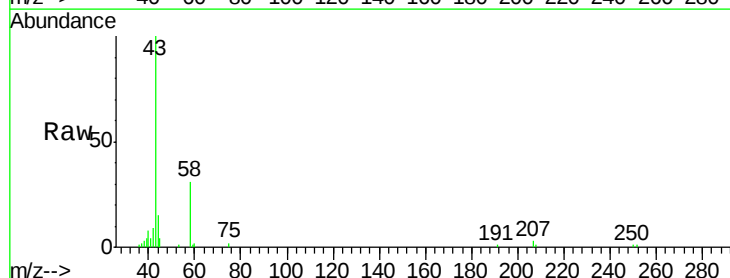
Tot Ion: 59 Resp: 575
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.6#

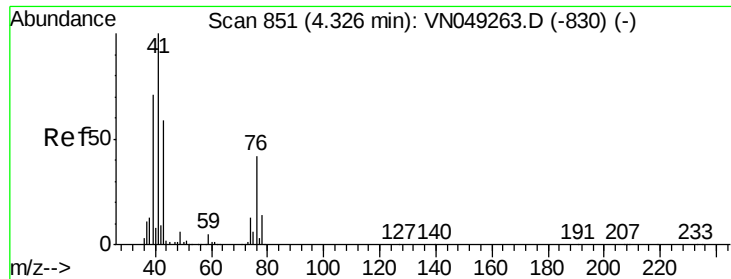


#16

Acetone
 Concen: 14.60 ug/l
 RT: 3.83 min Scan# 696
 Delta R.T. 0.01 min
 Lab File: VN049356.D
 Acq: 18 Jun 2018 20:48

Tgt Ion: 43 Resp: 56619
 Ion Ratio Lower Upper
 43 100
 58 31.8 22.4 33.6

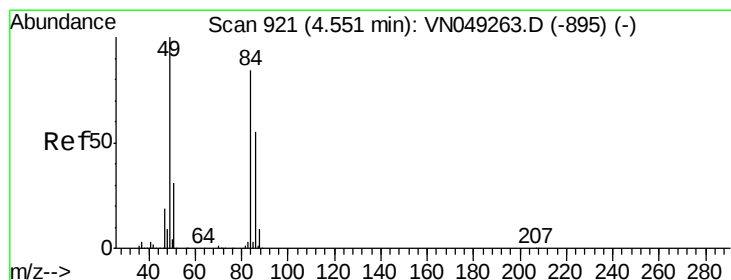
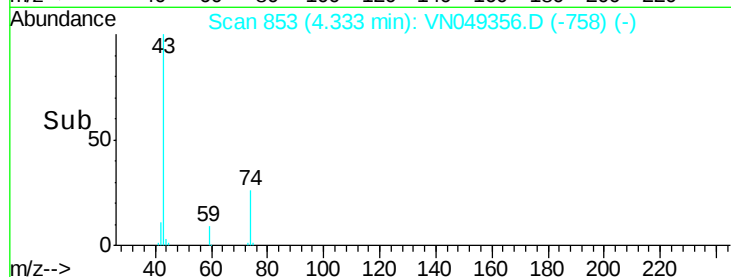
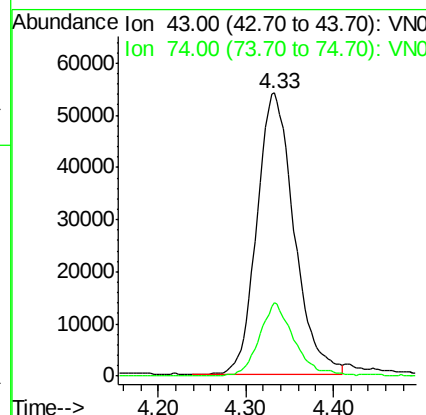
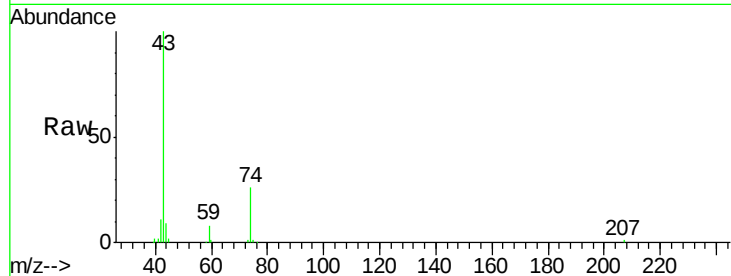




#18
Methvl Acetate
Concen: 13.50 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN049356.D
Acq: 18 Jun 2018 20:48

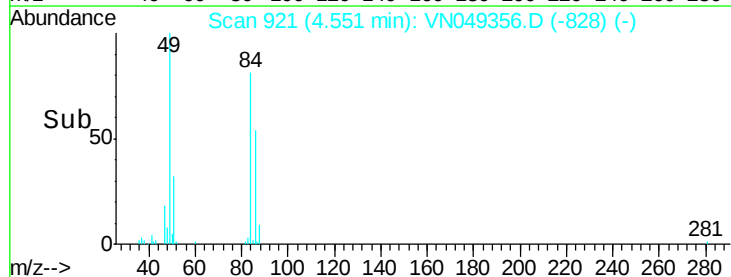
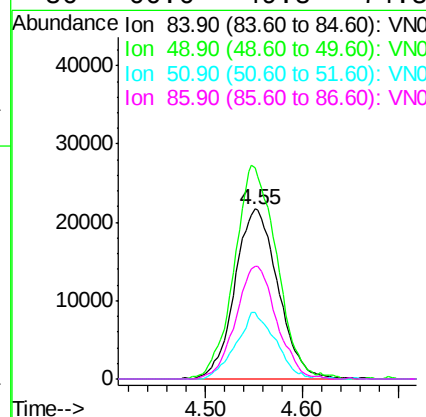
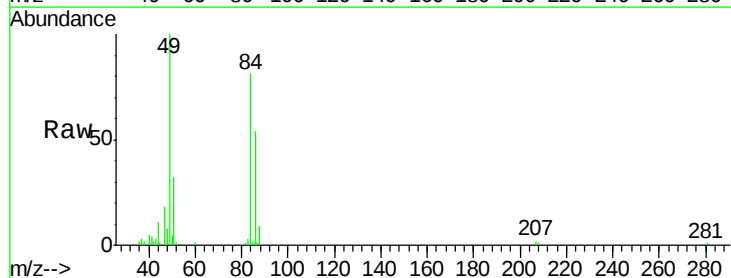
Instrument :
MSVOA_N
ClientSampleId :

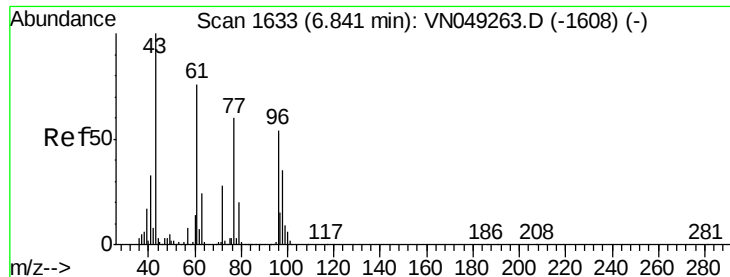
Tot Ion: 43 Resp: 159617
Ion Ratio Lower Upper
43 100
74 24.6 17.4 26.0



#20
Methylene Chloride
Concen: 4.16 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN049356.D
Acq: 18 Jun 2018 20:48

Tgt Ion: 84 Resp: 67357
Ion Ratio Lower Upper
84 100
49 124.2 106.9 160.3
51 39.2 32.7 49.1
86 66.6 49.8 74.8





#25

2-Butanone

Concen: 1.64 ug/l

RT: 6.85 min Scan# 1637

Delta R.T. 0.01 min

Lab File: VN049356.D

Acq: 18 Jun 2018 20:48

Instrument :

MSVOA_N

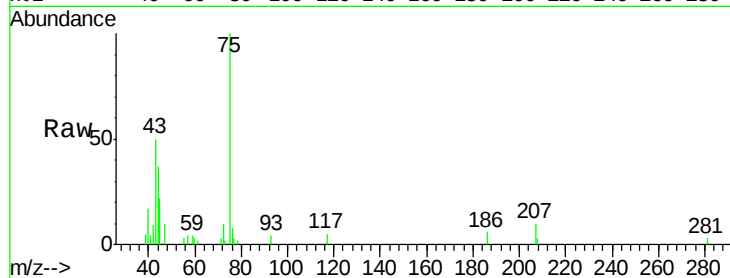
ClientSampleId :

Tot Ion: 43 Resp: 8525

Ion Ratio Lower Upper

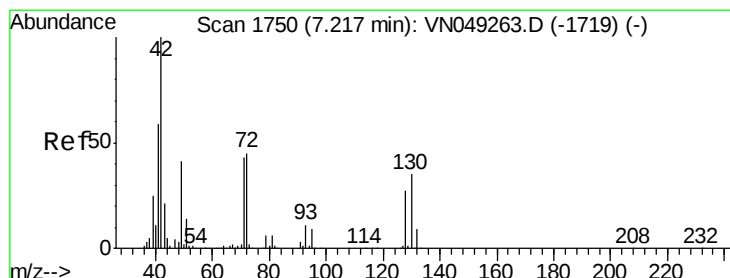
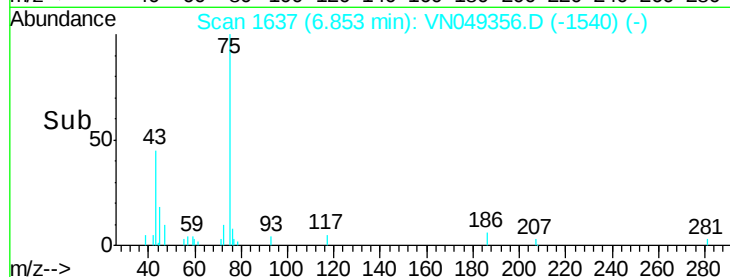
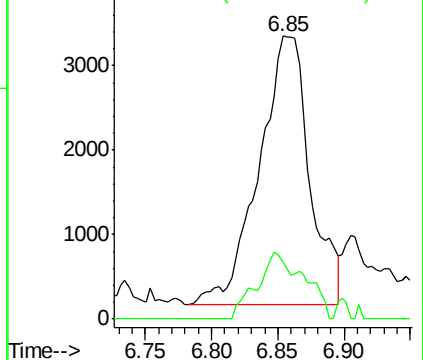
43 100

72 21.0 20.2 30.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 0.26 ug/l

RT: 7.23 min Scan# 1753

Delta R.T. 0.01 min

Lab File: VN049356.D

Acq: 18 Jun 2018 20:48

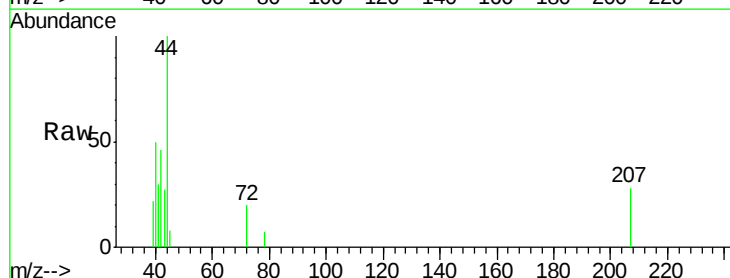
Tgt Ion: 42 Resp: 886

Ion Ratio Lower Upper

42 100

72 32.2 32.2 48.4#

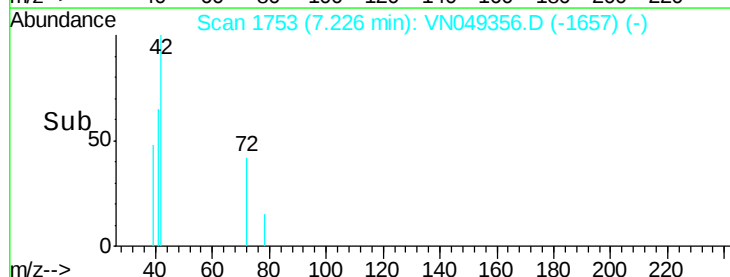
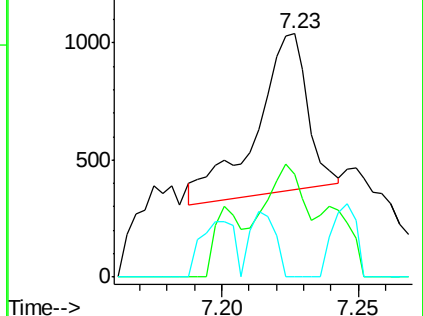
71 20.0 30.5 45.7#

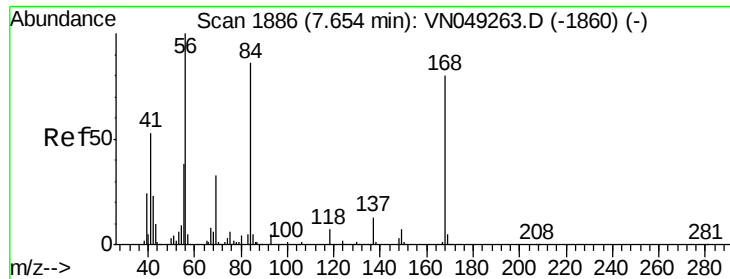


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





#31

Cyclohexane

Concen: 0.75 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN049356.D

Acq: 18 Jun 2018 20:48

Instrument :
MSVOA_N
ClientSampled :

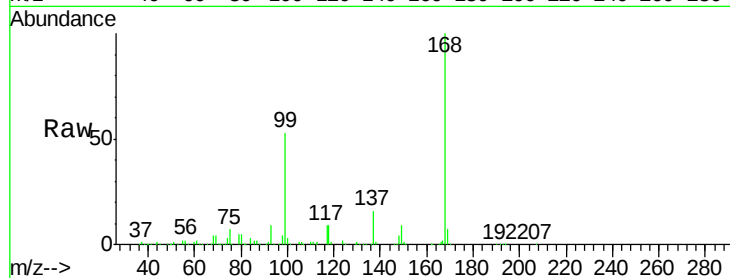
Tot Ion: 56 Resp: 21748

Ion Ratio Lower Upper

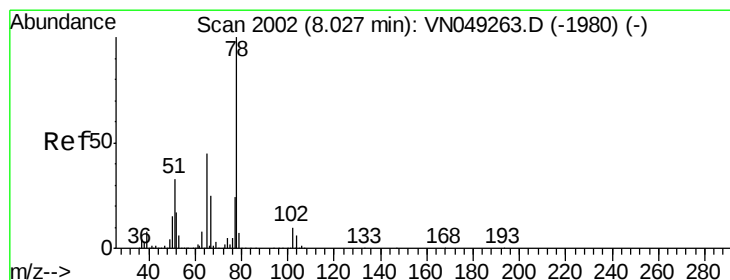
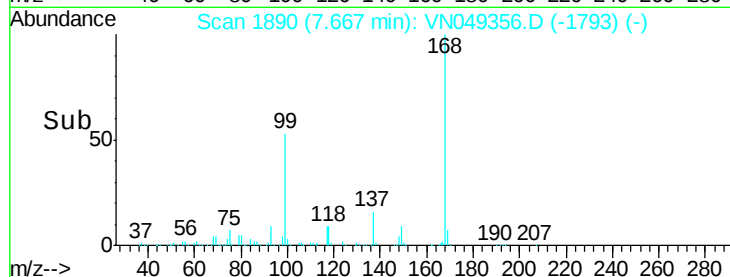
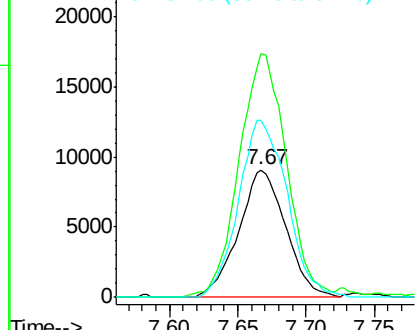
56 100

69 188.7 25.0 37.4#

84 138.5 64.6 96.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 50.82 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049356.D

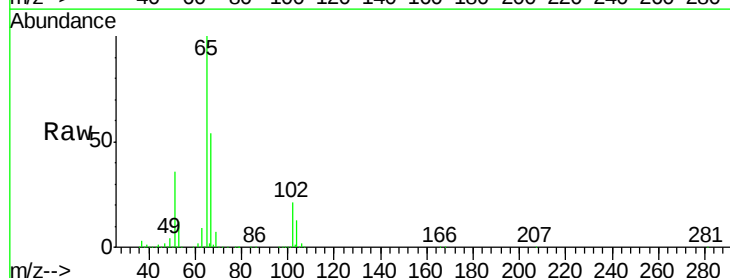
Acq: 18 Jun 2018 20:48

Tgt Ion: 65 Resp: 811813

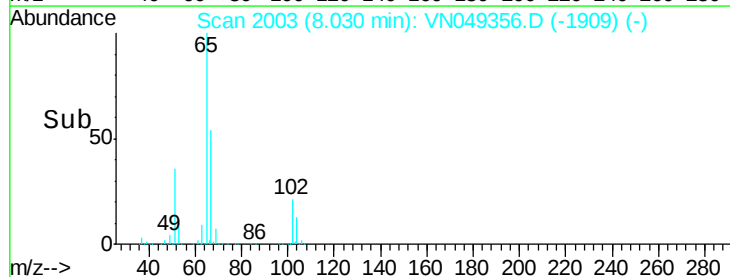
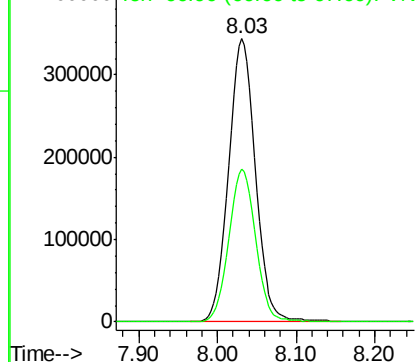
Ion Ratio Lower Upper

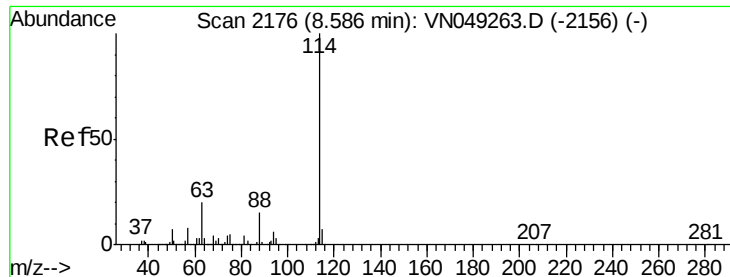
65 100

67 53.8 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

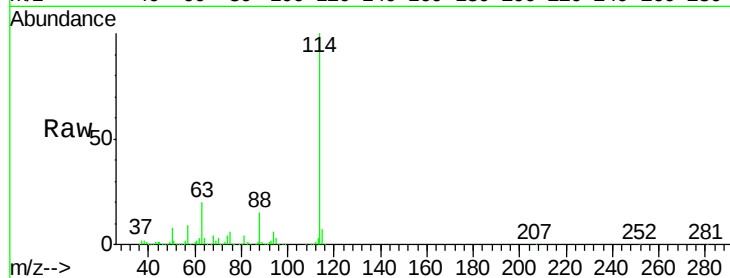




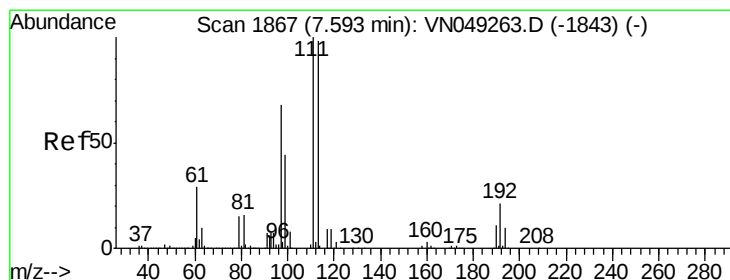
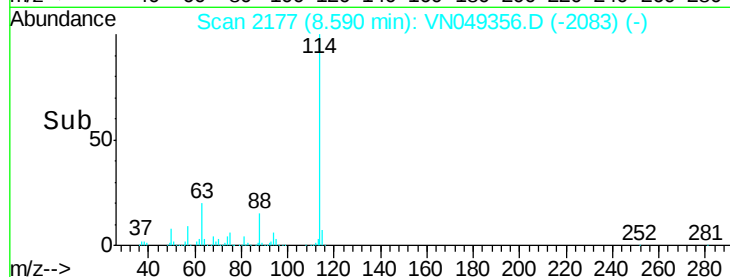
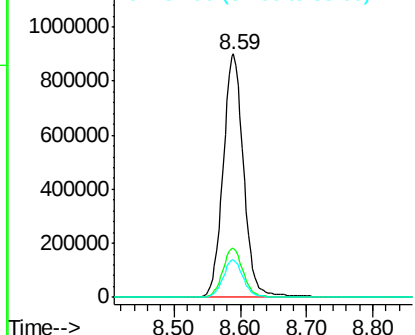
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049356.D
 Acq: 18 Jun 2018 20:48

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 1935614
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 44.4
 88 15.4 0.0 31.4

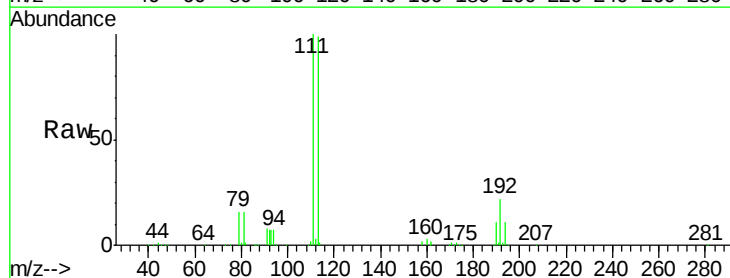


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

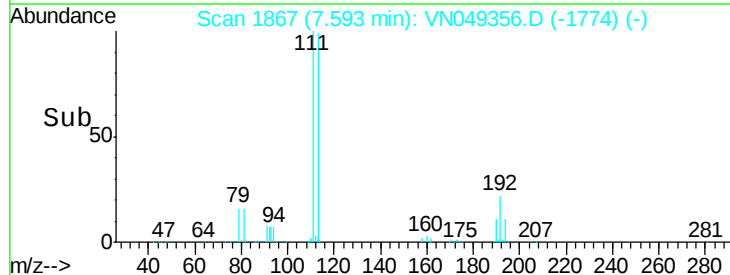
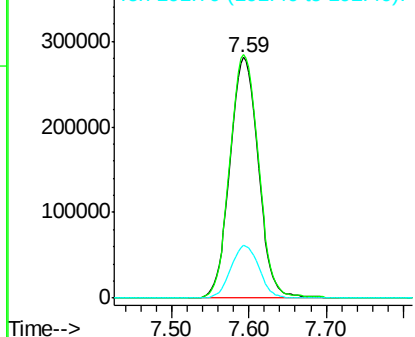


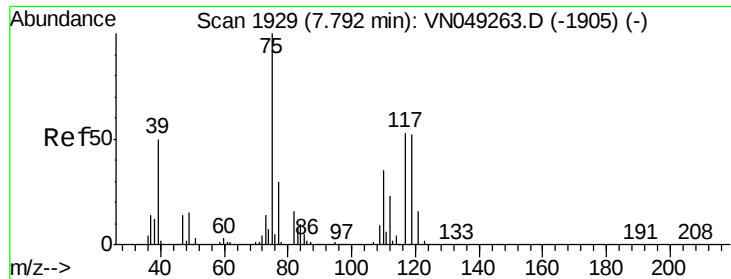
#35
 Dibromofluoromethane
 Concen: 45.73 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049356.D
 Acq: 18 Jun 2018 20:48

Tgt Ion:113 Resp: 716207
 Ion Ratio Lower Upper
 113 100
 111 102.1 82.4 123.6
 192 21.8 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

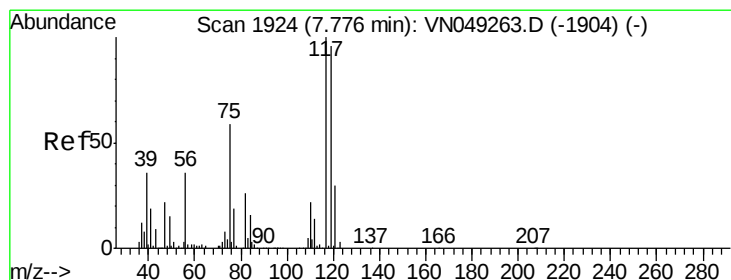
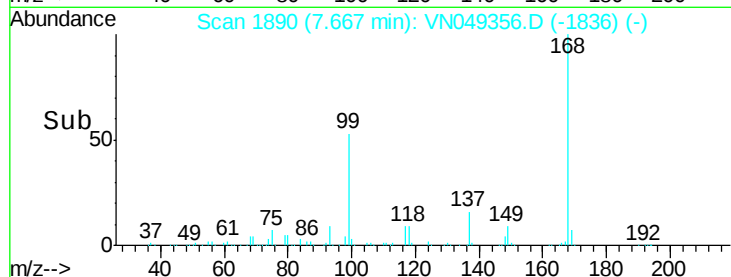
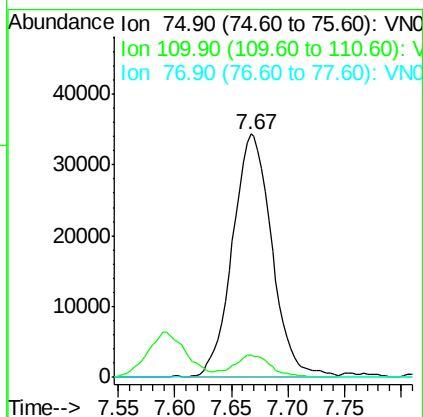
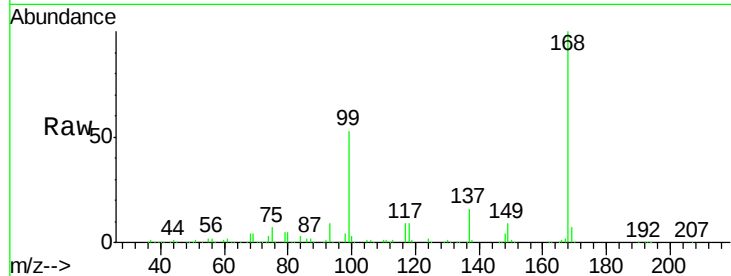




#36
 1,1-Dichloropropene
 Concen: 3.76 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049356.D
 Acq: 18 Jun 2018 20:48

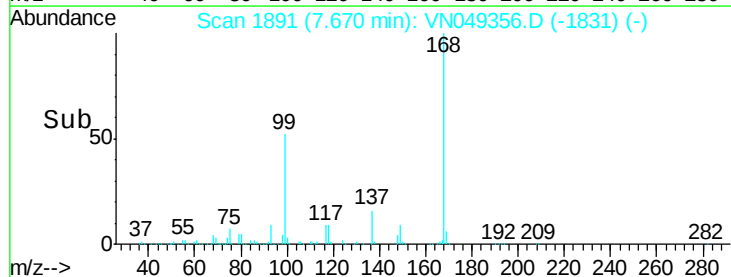
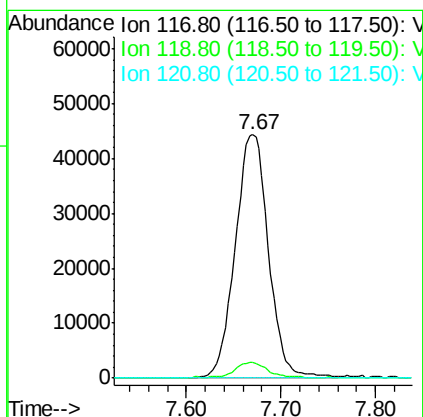
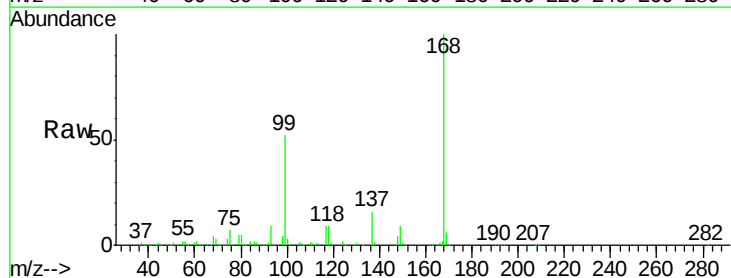
Instrument :
 MSVOA_N
 ClientSampleId :

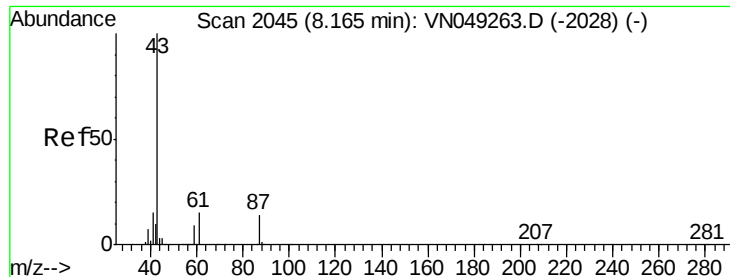
Tot Ion	75	Resp	83445
Ion Ratio	100	Lower	Upper
75	100		
110	8.5	17.0	50.9#
77	0.0	24.4	36.6#



#38
 Carbon Tetrachloride
 Concen: 4.73 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN049356.D
 Acq: 18 Jun 2018 20:48

Tgt Ion	117	Resp	108558
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#



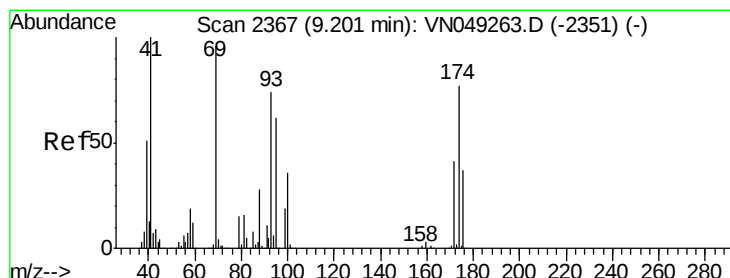
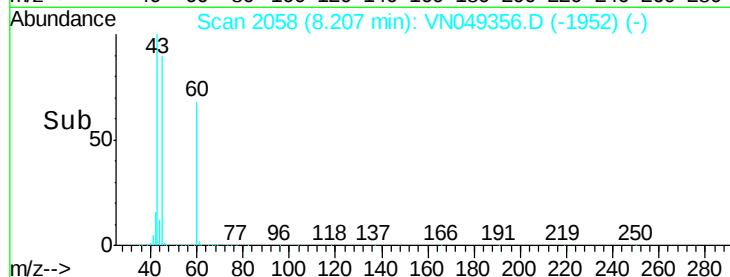
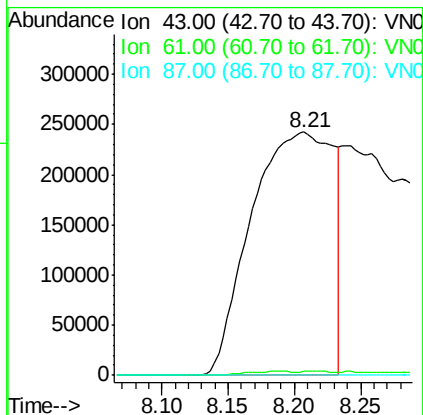
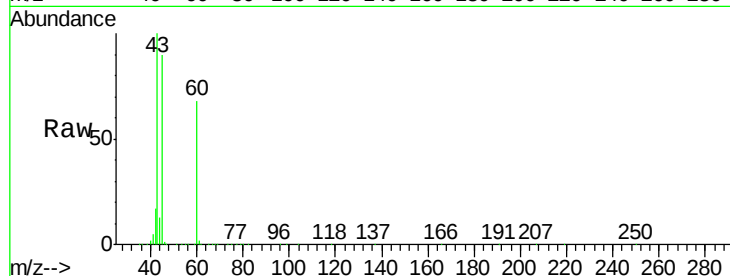


#43

Isopropyl Acetate
 Concen: 44.99 ug/l
 RT: 8.21 min Scan# 2058
 Delta R.T. 0.04 min
 Lab File: VN049356.D
 Acq: 18 Jun 2018 20:48

Instrument :
 MSVOA_N
 ClientSampleId :

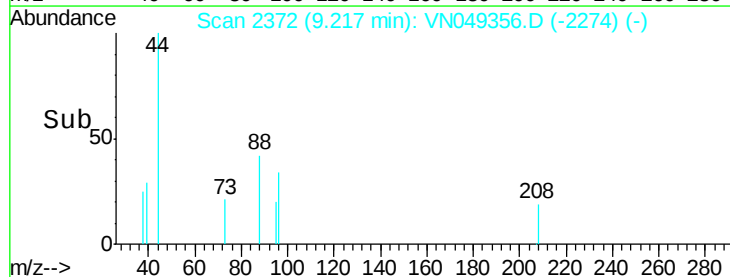
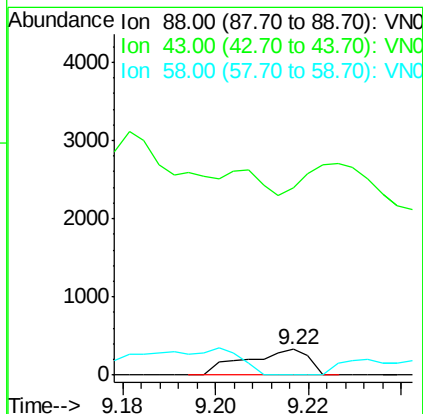
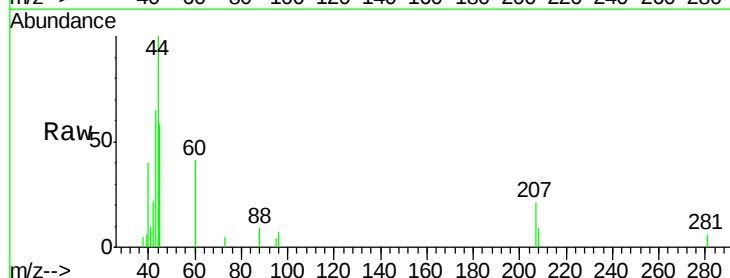
Tot Ion: 43 Resp: 1036747
 Ion Ratio Lower Upper
 43 100
 61 0.3 14.2 21.4#
 87 0.0 9.4 14.0#

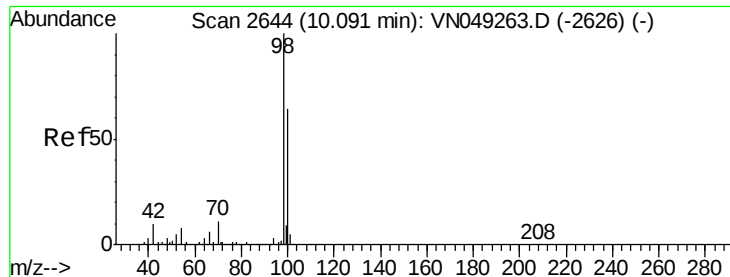


#49

1,4-Dioxane
 Concen: 2.08 ug/l
 RT: 9.22 min Scan# 2372
 Delta R.T. 0.02 min
 Lab File: VN049356.D
 Acq: 18 Jun 2018 20:48

Tgt Ion: 88 Resp: 312
 Ion Ratio Lower Upper
 88 100
 43 223.1 30.9 46.3#
 58 73.4 58.9 88.3





#50

Toluene-d8

Concen: 43.28 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN049356.D

Acq: 18 Jun 2018 20:48

Instrument :

MSVOA_N

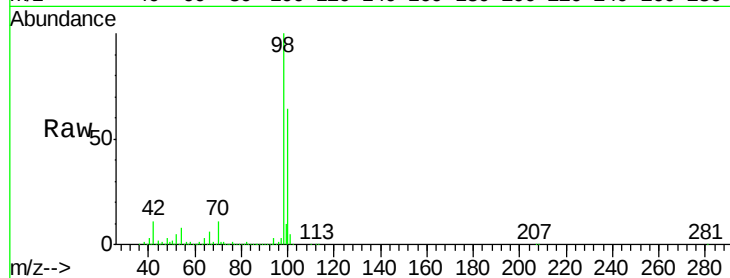
ClientSampleId :

Tot Ion: 98 Resp: 2580598

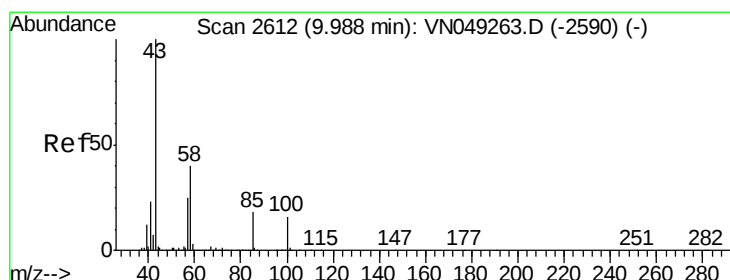
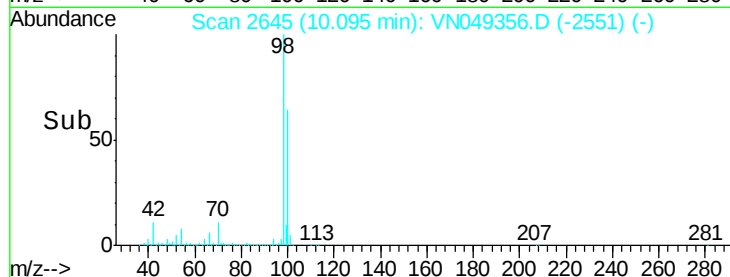
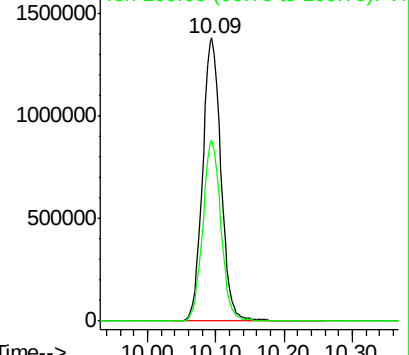
Ion Ratio Lower Upper

98 100

100 63.0 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VN049263.D (-2626) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.50 ug/l

RT: 9.99 min Scan# 2613

Delta R.T. 0.00 min

Lab File: VN049356.D

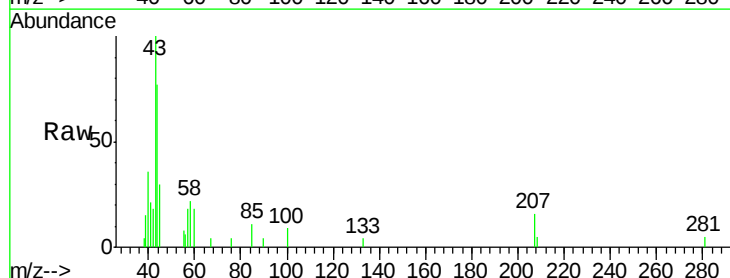
Acq: 18 Jun 2018 20:48

Tgt Ion: 43 Resp: 6071

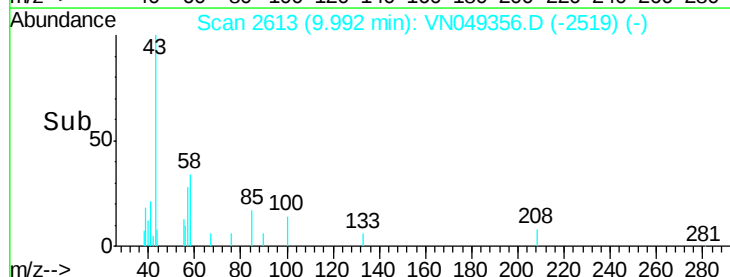
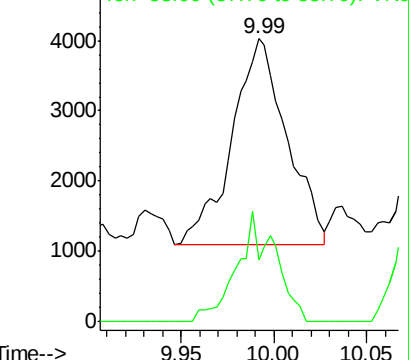
Ion Ratio Lower Upper

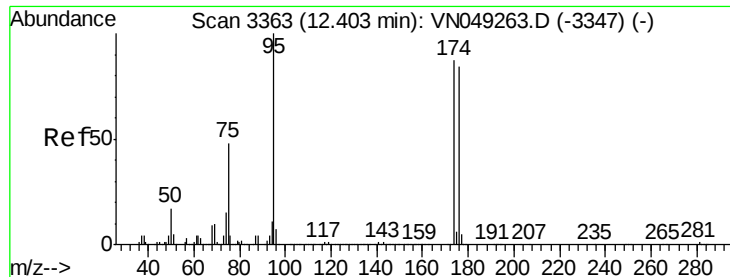
43 100

58 24.5 29.0 43.6#



Abundance Ion 43.00 (42.70 to 43.70): VN049263.D (-2590) (-)





#62

4-Bromofluorobenzene

Concen: 33.64 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN049356.D

Acq: 18 Jun 2018 20:48

Instrument :

MSVOA_N

ClientSampleId :

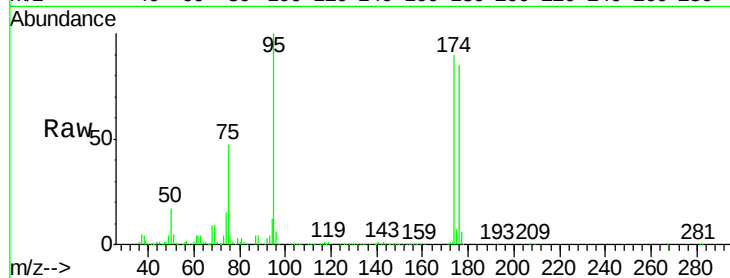
Tot Ion: 95 Resp: 663175

Ion Ratio Lower Upper

95 100

174 89.5 0.0 165.6

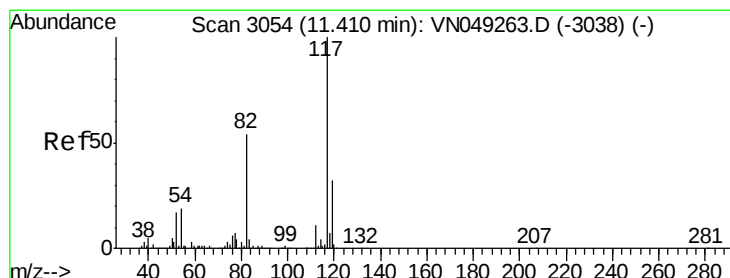
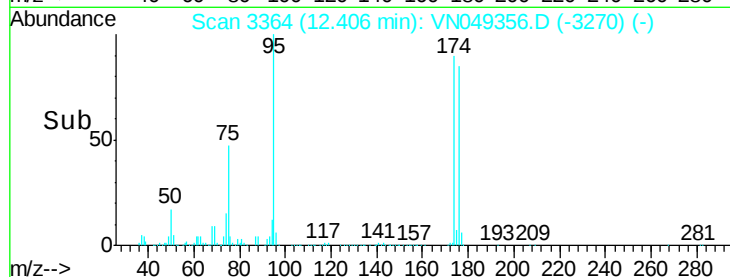
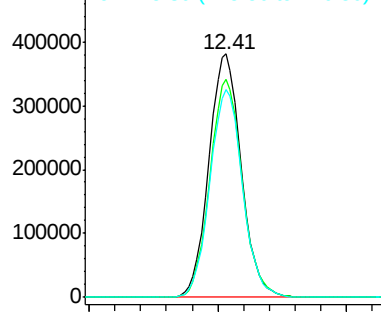
176 85.9 0.0 157.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049356.D

Acq: 18 Jun 2018 20:48

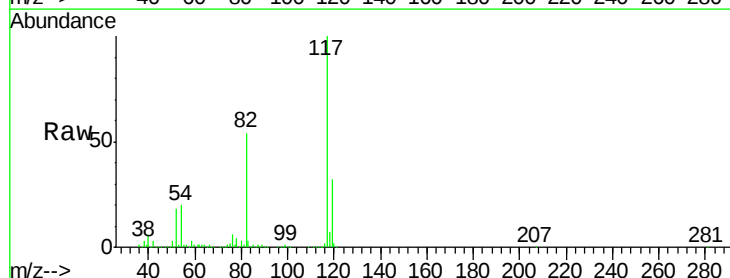
Tgt Ion: 117 Resp: 1549243

Ion Ratio Lower Upper

117 100

82 53.5 45.9 68.9

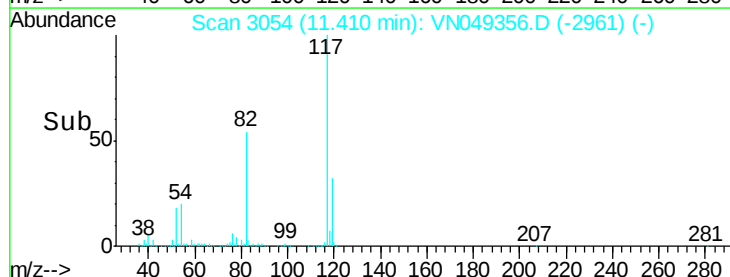
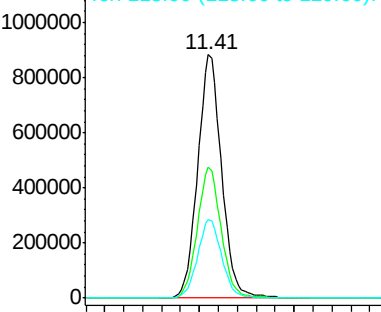
119 32.5 25.5 38.3

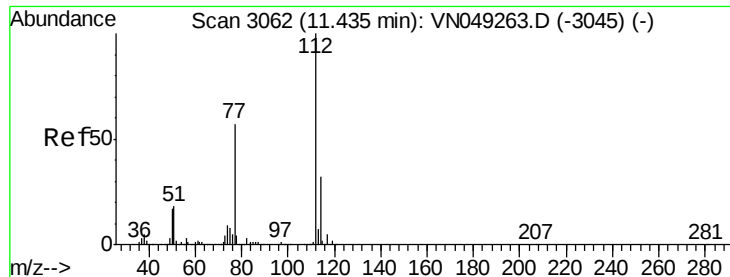


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#65

Chlorobenzene

Concen: 0.58 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN049356.D

Acq: 18 Jun 2018 20:48

Instrument :

MSVOA_N

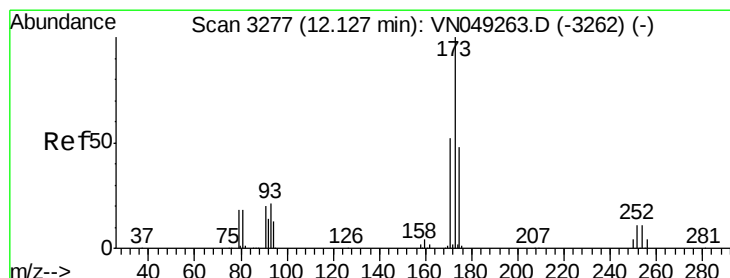
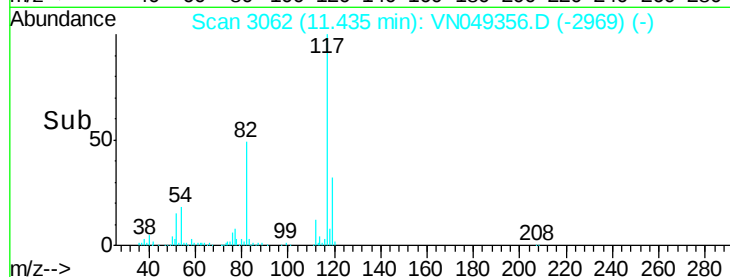
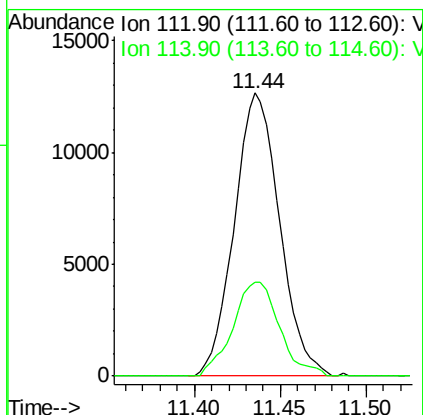
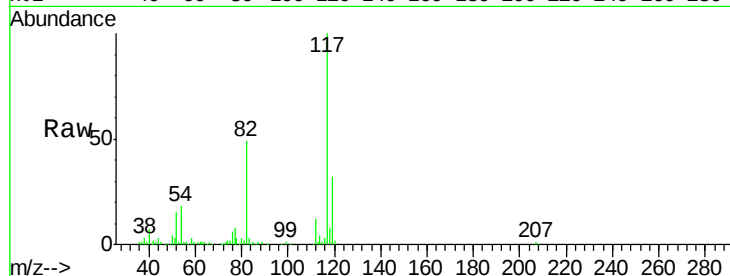
ClientSampleId :

Tot Ion:112 Resp: 23109

Ion Ratio Lower Upper

112 100

114 33.1 26.2 39.4



#71

Bromoform

Concen: 0.32 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN049356.D

Acq: 18 Jun 2018 20:48

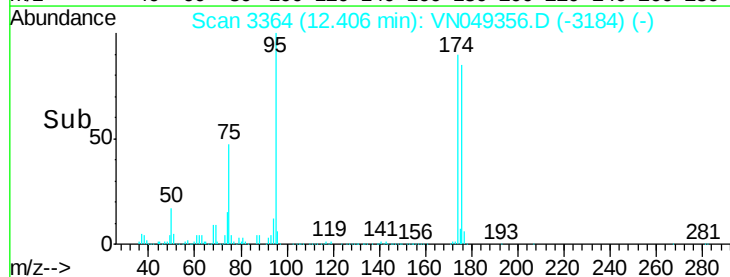
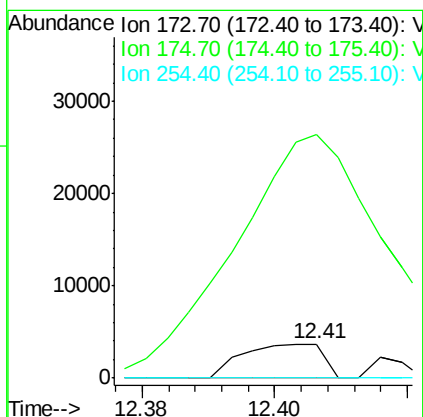
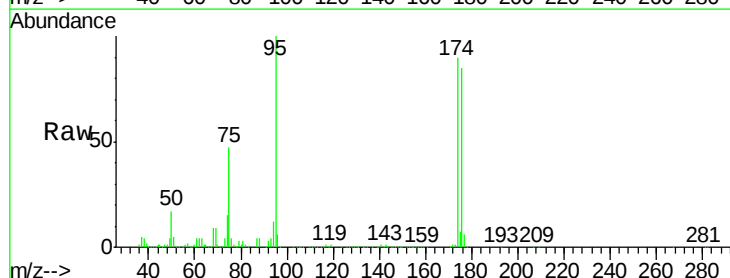
Tgt Ion:173 Resp: 3105

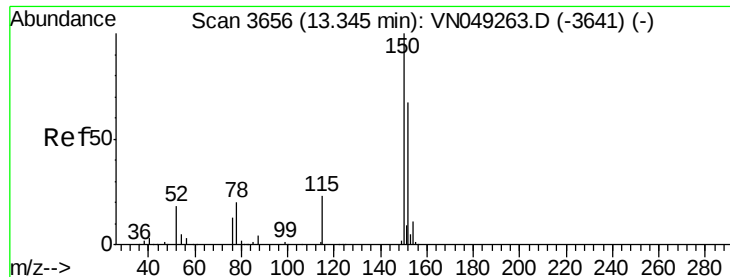
Ion Ratio Lower Upper

173 100

175 1078.4 24.5 73.5#

254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049356.D

Acq: 18 Jun 2018 20:48

Instrument :

MSVOA_N

ClientSampleId :

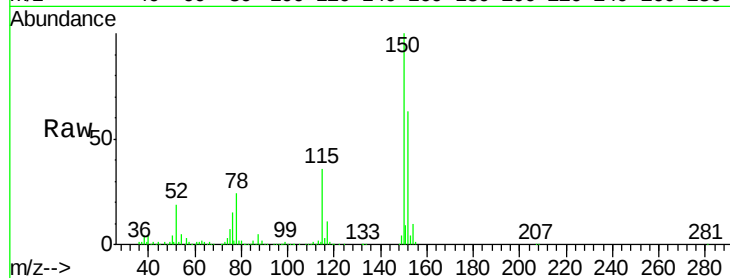
Tot Ion:152 Resp: 468978

Ion Ratio Lower Upper

152 100

115 56.0 28.7 86.1

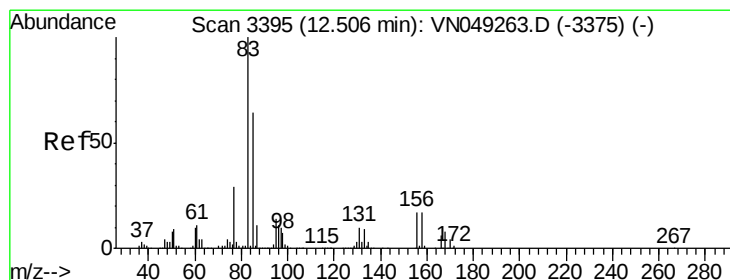
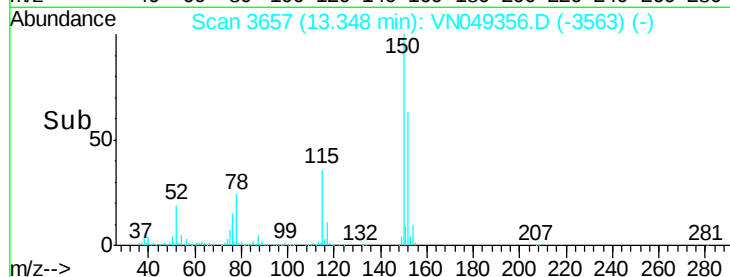
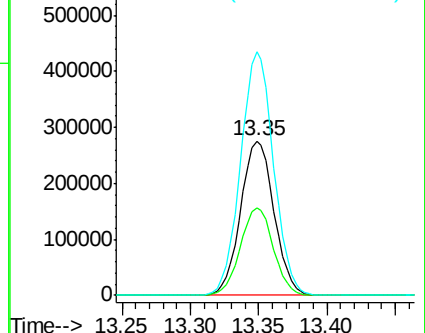
150 155.5 0.0 351.0



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: 12.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VN049356.D

Acq: 18 Jun 2018 20:48

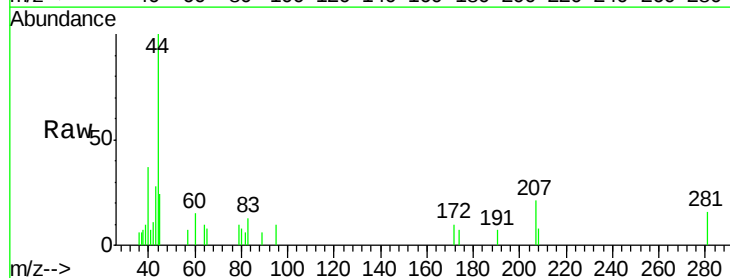
Tgt Ion: 83 Resp: 250

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

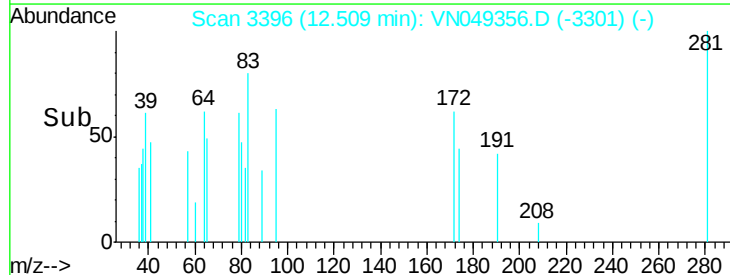
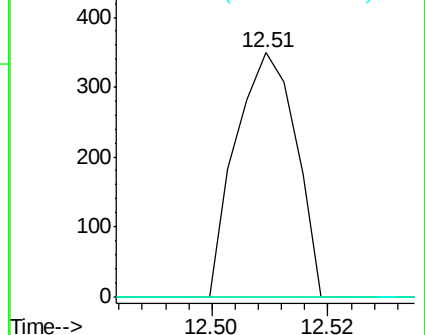
85 0.0 32.0 96.0#

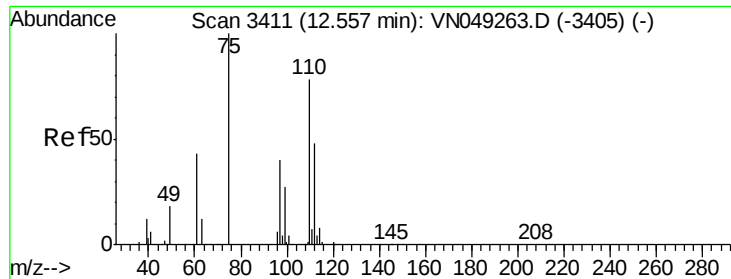


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V

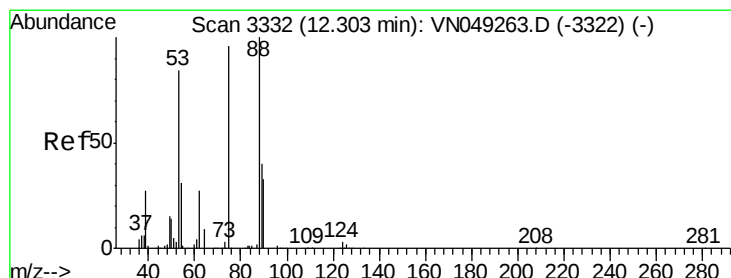
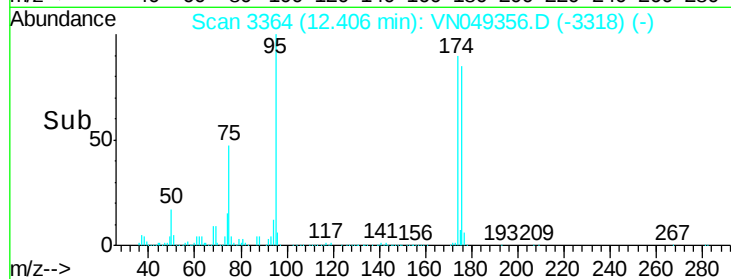
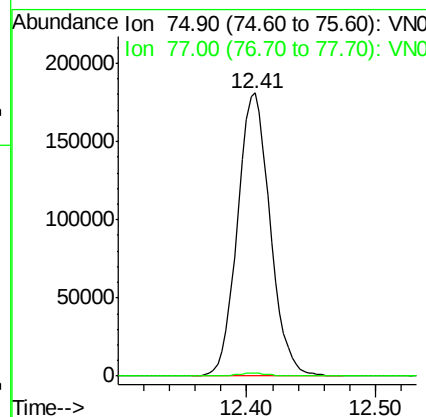
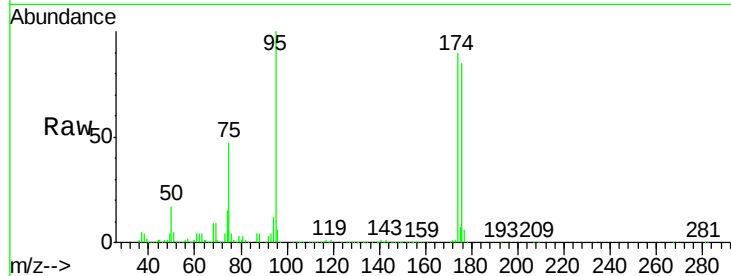




#76
 1,2,3-Trichloropropane
 Concen: 39.75 ug/l
 RT: 12.41 min Scan# 3364
 Delta R.T. -0.15 min
 Lab File: VN049356.D
 Acq: 18 Jun 2018 20:48

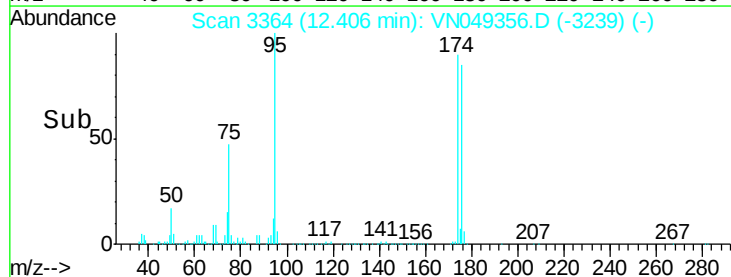
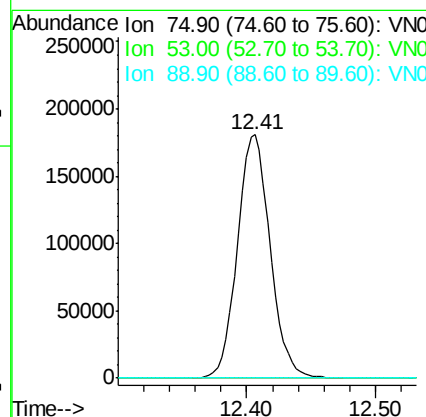
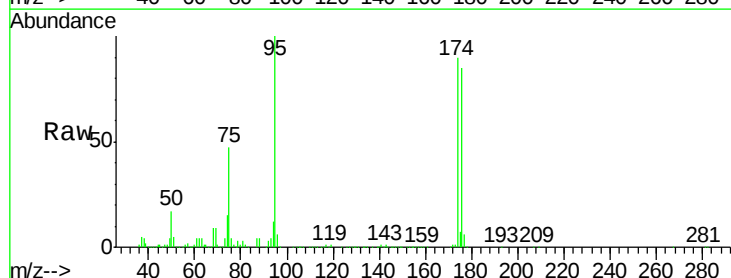
Instrument :
 MSVOA_N
 ClientSampled :

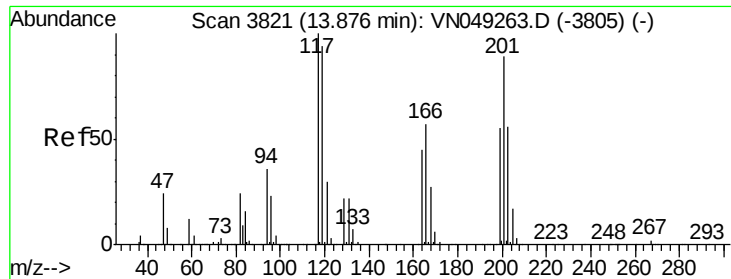
Tot Ion: 75 Resp: 318094
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 125.64 ug/l
 RT: 12.41 min Scan# 3364
 Delta R.T. 0.10 min
 Lab File: VN049356.D
 Acq: 18 Jun 2018 20:48

Tgt Ion: 75 Resp: 318094
 Ion Ratio Lower Upper
 75 100
 53 0.2 82.7 124.1#
 89 0.0 36.5 54.7#





#90

Hexachloroethane

Concen: Below Cal

RT: 13.65 min Scan# 3751

Delta R.T. -0.22 min

Lab File: VN049356.D

Acq: 18 Jun 2018 20:48

Instrument :

MSVOA_N

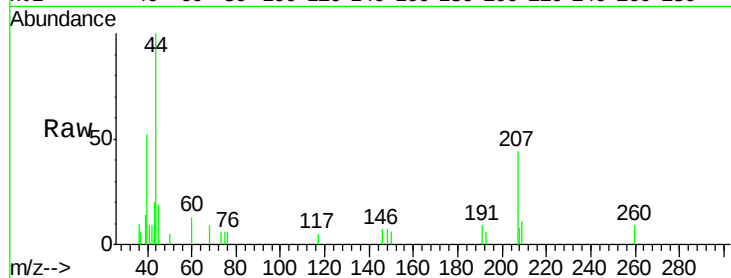
ClientSampled :

Tot Ion:117 Resp: 58

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

13.65

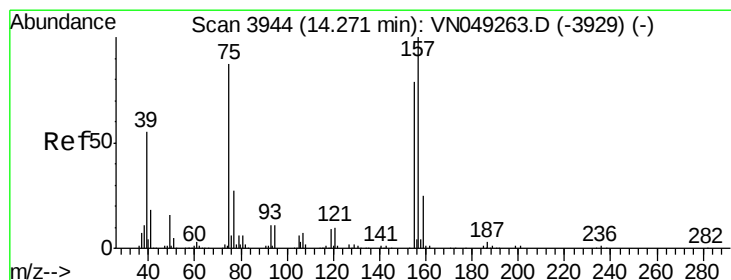
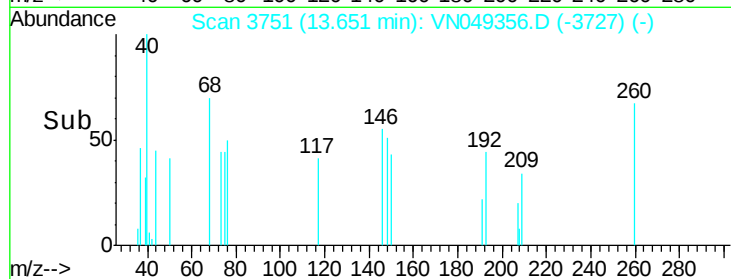
150

100

50

0

Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.50 ug/l

RT: 14.26 min Scan# 3942

Delta R.T. -0.01 min

Lab File: VN049356.D

Acq: 18 Jun 2018 20:48

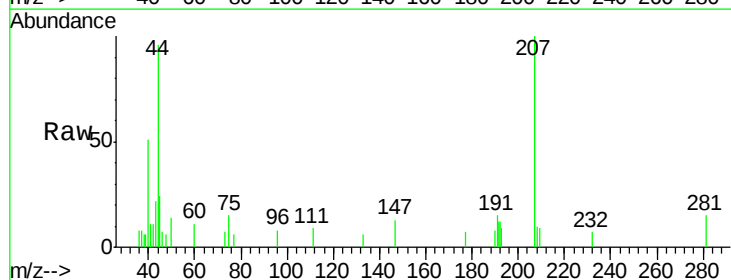
Tgt Ion: 75 Resp: 714

Ion Ratio Lower Upper

75 100

155 0.0 38.8 116.3#

157 0.0 51.0 153.1#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

500

400

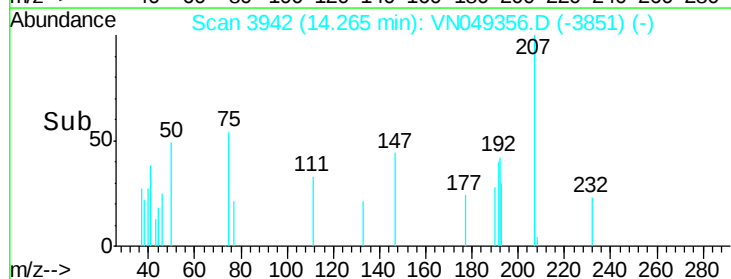
300

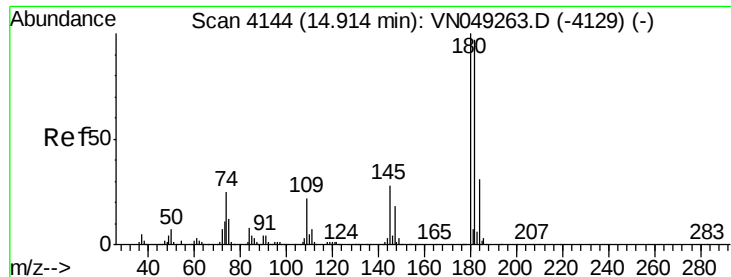
200

100

0

Time-->

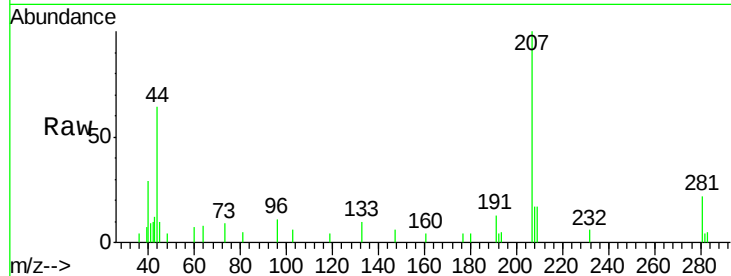




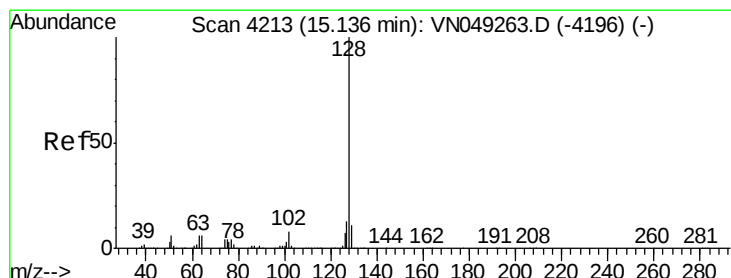
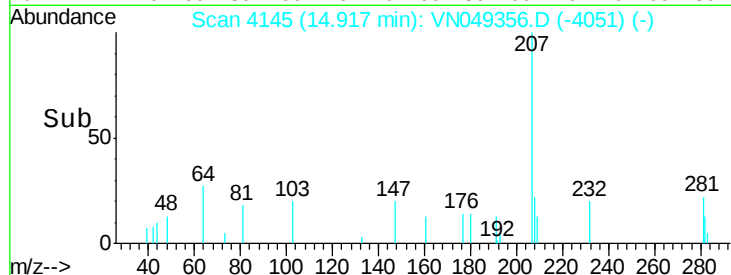
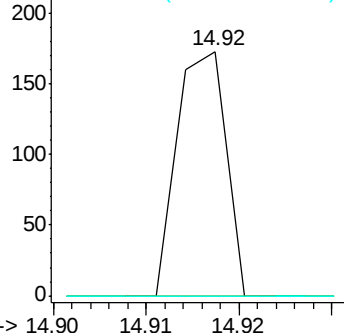
#93
 1,2,4-Trichlorobenzene
 Concen: 4.75 ug/l
 RT: 14.92 min Scan# 4145
 Delta R.T. 0.00 min
 Lab File: VN049356.D
 Acq: 18 Jun 2018 20:48

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 64
 Ion Ratio Lower Upper
 180 100
 182 0.0 46.9 140.8#
 145 0.0 14.7 44.1#

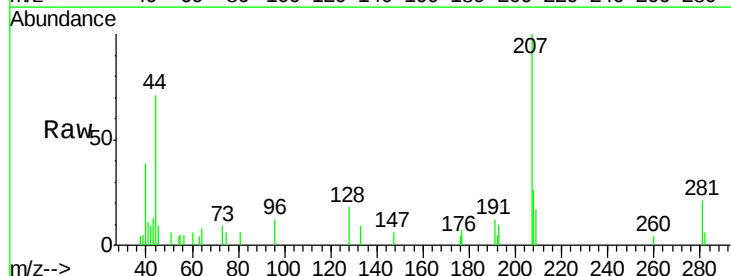


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 2.15 ug/l
 RT: 15.14 min Scan# 4214
 Delta R.T. 0.00 min
 Lab File: VN049356.D
 Acq: 18 Jun 2018 20:48

Tgt Ion:128 Resp: 910
 Ion Ratio Lower Upper
 128 100
 127 7.7 10.6 16.0#
 129 8.4 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

