

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061918\
 Data File : VN049396.D
 Acq On : 19 Jun 2018 19:55
 Operator : MD\SY
 Sample : PB110363ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 20 04:33:24 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	1180185	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1871658	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1489733	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	396569	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	798126	50.99	ug/l	0.00
Spiked Amount			Recovery	=	101.98%	
35) Dibromofluoromethane	7.59	113	701966	46.36	ug/l	0.00
Spiked Amount			Recovery	=	92.72%	
50) Toluene-d8	10.09	98	2540902	44.07	ug/l	0.00
Spiked Amount			Recovery	=	88.14%	
62) 4-Bromofluorobenzene	12.41	95	614863	32.25	ug/l	0.00
Spiked Amount			Recovery	=	64.50%	

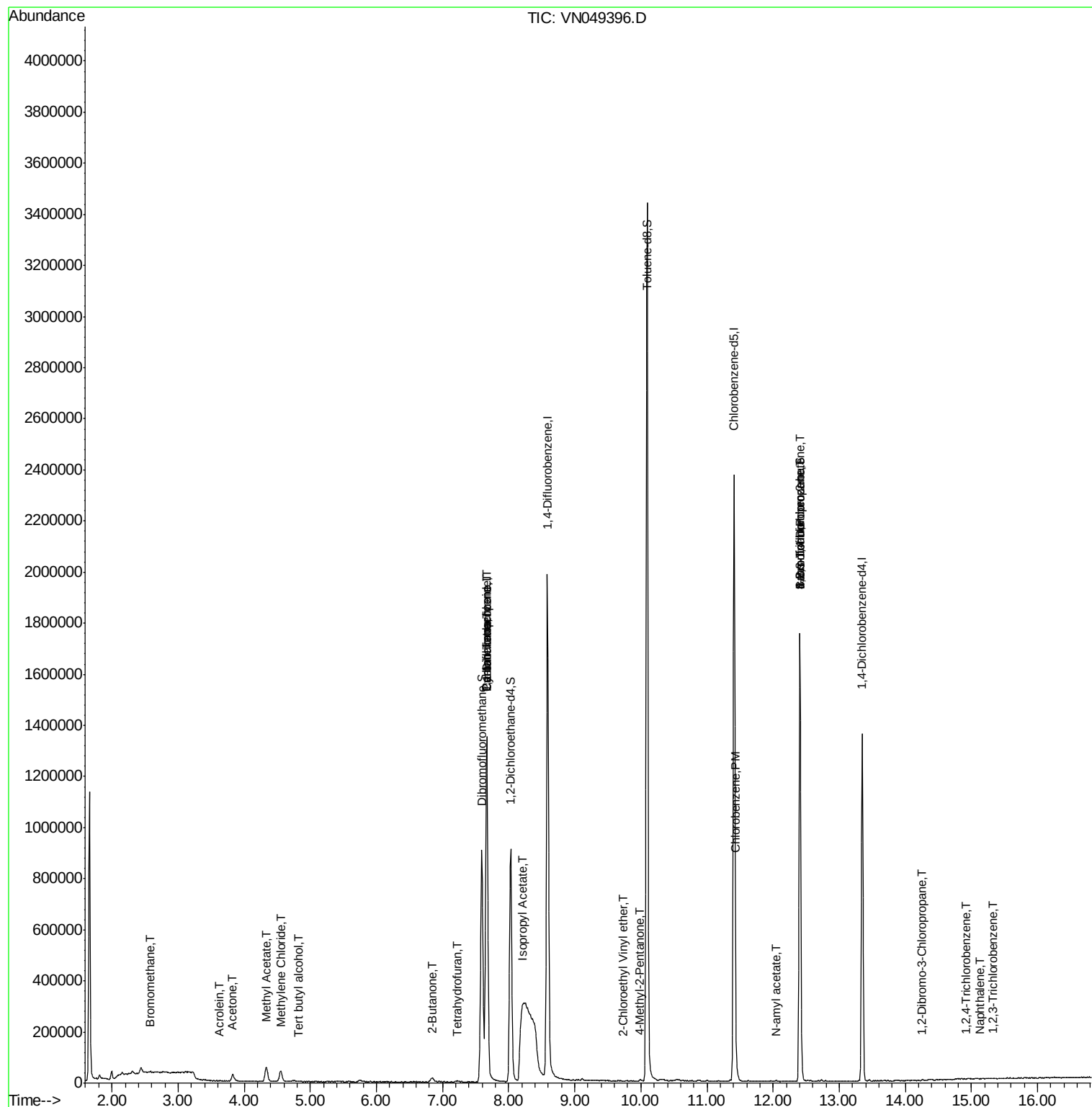
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	3884	0.40	ug/l #	77
11) Tert butyl alcohol	4.82	59	410	0.45	ug/l #	70
13) Acrolein	3.61	56	542	0.56	ug/l #	66
16) Acetone	3.82	43	44964	11.83	ug/l #	87
18) Methyl Acetate	4.34	43	112341	9.69	ug/l	98
20) Methylene Chloride	4.55	84	31752	2.00	ug/l	90
25) 2-Butanone	6.85	43	10031	1.97	ug/l	96
29) Tetrahydrofuran	7.22	42	2363	0.72	ug/l	94
31) Cyclohexane	7.67	56	21772	0.77	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	83978	3.91	ug/l #	49
38) Carbon Tetrachloride	7.67	117	105986	4.77	ug/l #	17
43) Isopropyl Acetate	8.20	43	262550	11.78	ug/l #	64
51) 4-Methyl-2-Pentanone	9.99	43	4600	0.39	ug/l	95
58) 2-Chloroethyl Vinyl ether	9.73	63	110	14.34	ug/l #	51
65) Chlorobenzene	11.44	112	22446	0.58	ug/l	91
71) Bromoform	12.41	173	4674	0.50	ug/l #	1
74) N-amyl acetate	12.04	43	3076	0.36	ug/l #	53
75) 1,1,2,2-Tetrachloroethane	12.55	83	118	Below	Cal #	26
76) 1,2,3-Trichloropropane	12.40	75	293793	43.42	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	293793	137.23	ug/l #	9
90) Hexachloroethane	14.01	117	68	Below	Cal #	9
92) 1,2-Dibromo-3-Chloropropan	14.26	75	391	0.32	ug/l #	4
93) 1,2,4-Trichlorobenzene	14.92	180	621	4.83	ug/l #	52
95) Naphthalene	15.14	128	1029	2.17	ug/l #	78
96) 1,2,3-Trichlorobenzene	15.32	180	236	3.49	ug/l #	26

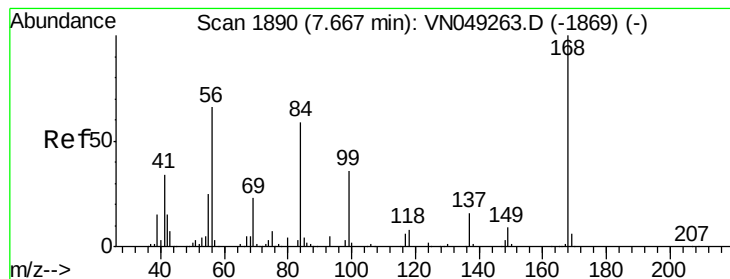
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN049396.D

Acq: 19 Jun 2018 19:55

Instrument :

MSVOA_N

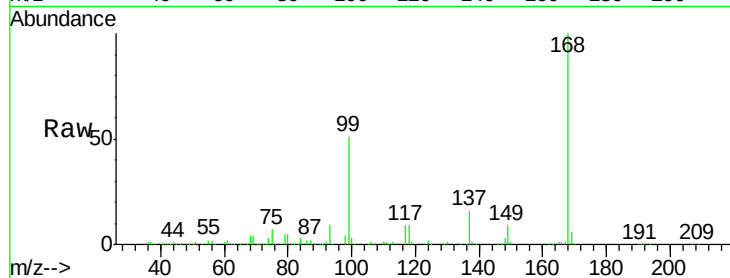
ClientSampleId :

Tot Ion:168 Resp: 1180185

Ion Ratio Lower Upper

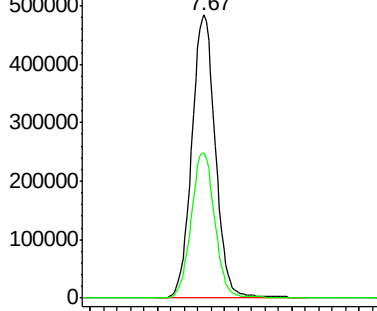
168 100

99 51.2 45.8 68.6

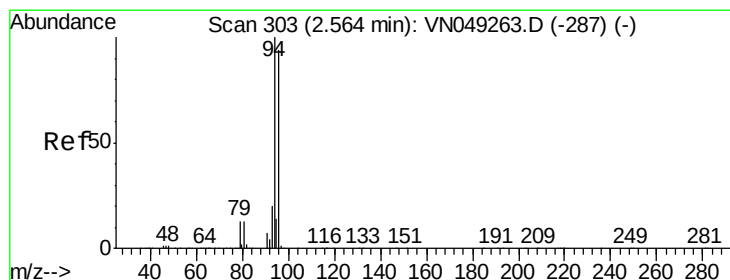
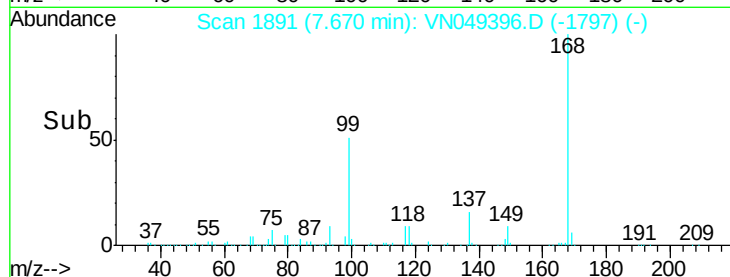


Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



Time--> 7.50 7.60 7.70 7.80 7.90



#5

Bromomethane

Concen: 0.40 ug/l

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN049396.D

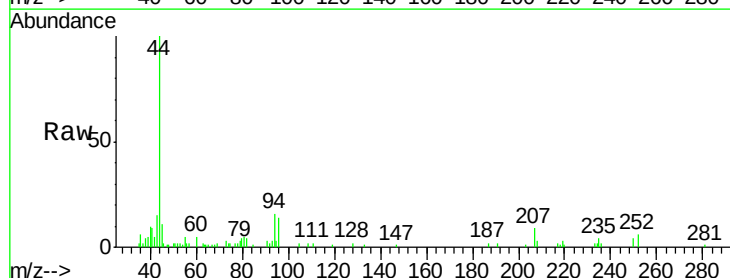
Acq: 19 Jun 2018 19:55

Tgt Ion: 94 Resp: 3884

Ion Ratio Lower Upper

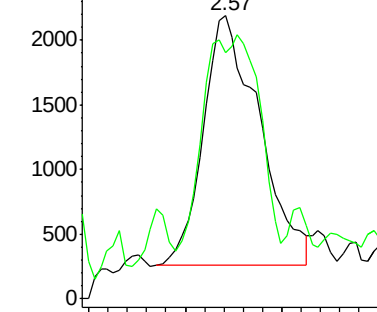
94 100

96 69.1 72.8 109.2#

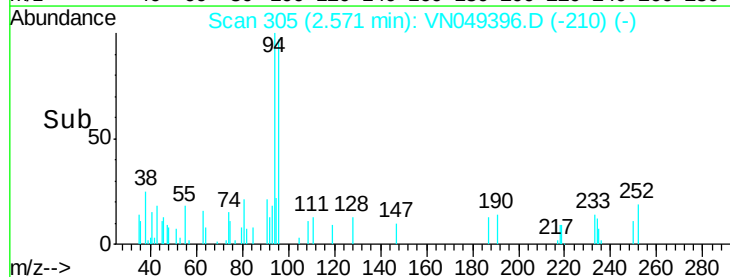


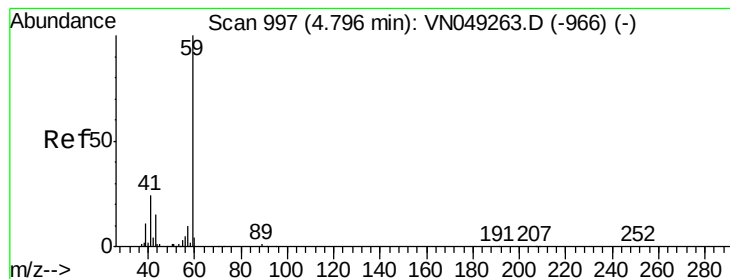
Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



Time--> 2.50 2.55 2.60



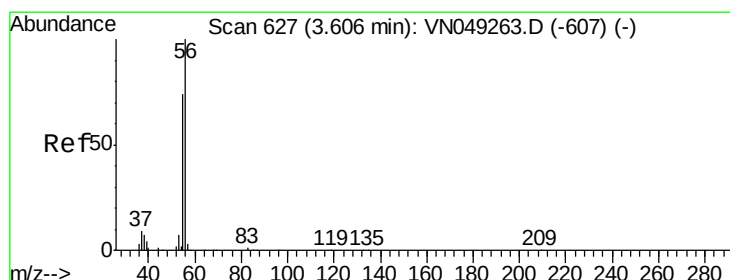
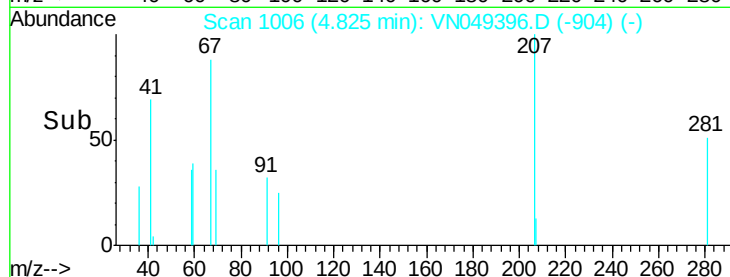
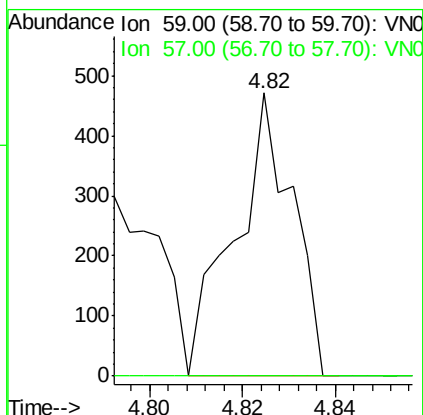
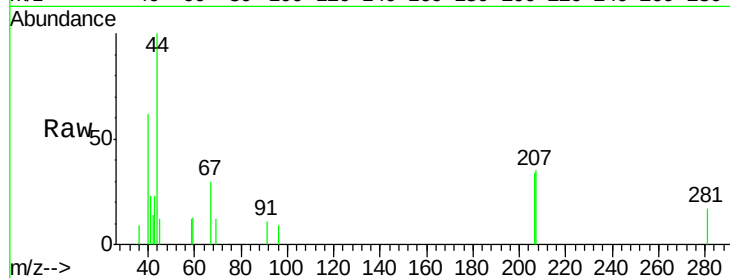


#11

Tert butyl alcohol
 Concen: 0.45 ug/l
 RT: 4.82 min Scan# 1006
 Delta R.T. 0.03 min
 Lab File: VN049396.D
 Acq: 19 Jun 2018 19:55

Instrument :
 MSVOA_N
 ClientSampled :

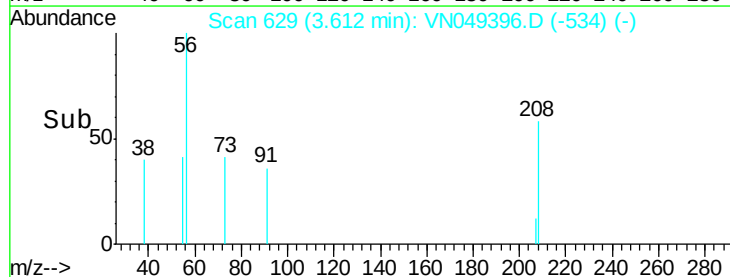
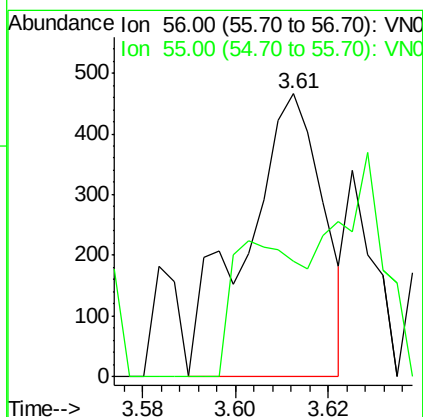
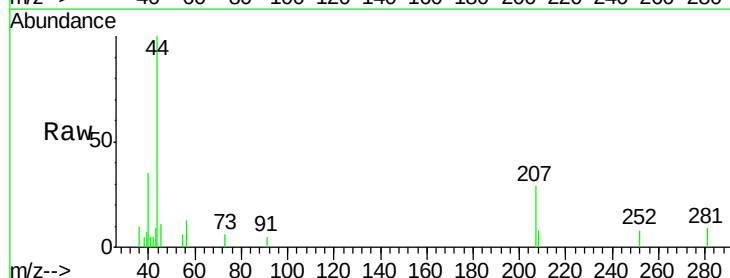
Tot Ion: 59 Resp: 410
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.6#

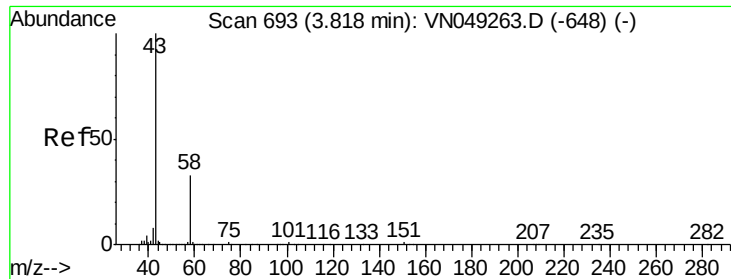


#13

Acrolein
 Concen: 0.56 ug/l
 RT: 3.61 min Scan# 629
 Delta R.T. 0.01 min
 Lab File: VN049396.D
 Acq: 19 Jun 2018 19:55

Tgt Ion: 56 Resp: 542
 Ion Ratio Lower Upper
 56 100
 55 43.4 57.1 85.7#





#16

Acetone

Concen: 11.83 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN049396.D

Acq: 19 Jun 2018 19:55

Instrument :

MSVOA_N

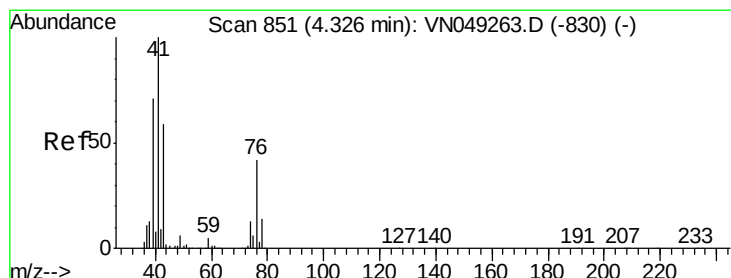
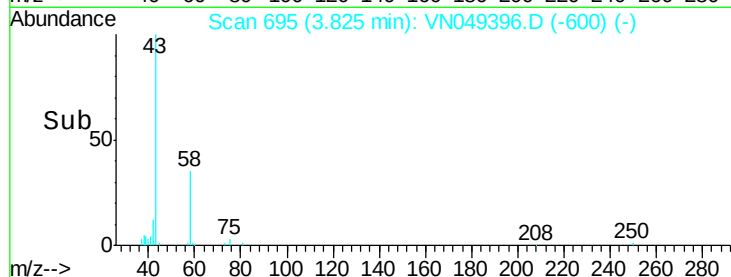
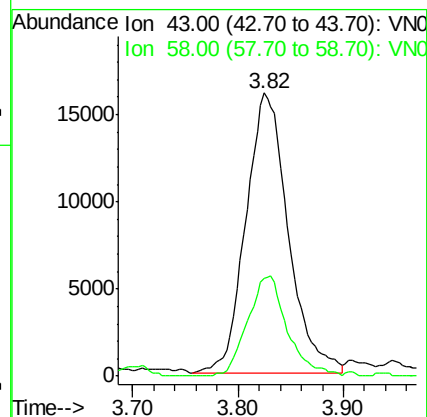
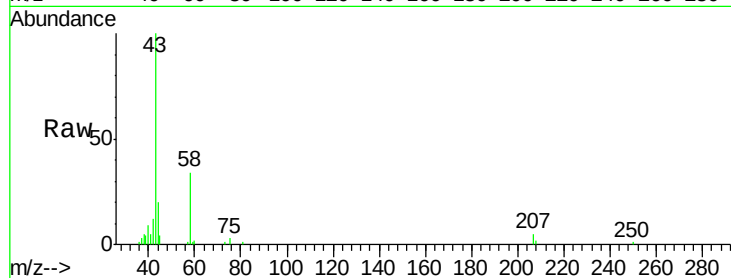
ClientSampleId :

Tot Ion: 43 Resp: 44964

Ion Ratio Lower Upper

43 100

58 34.9 22.4 33.6#



#18

Methyl Acetate

Concen: 9.69 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN049396.D

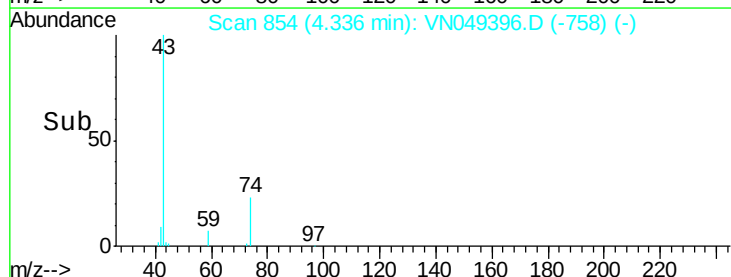
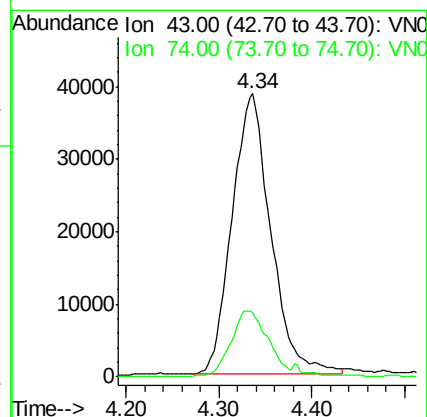
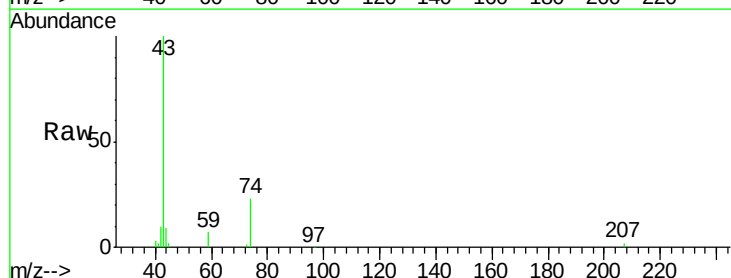
Acq: 19 Jun 2018 19:55

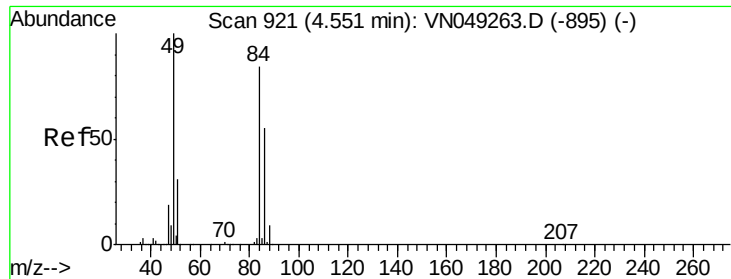
Tgt Ion: 43 Resp: 112341

Ion Ratio Lower Upper

43 100

74 22.5 17.4 26.0

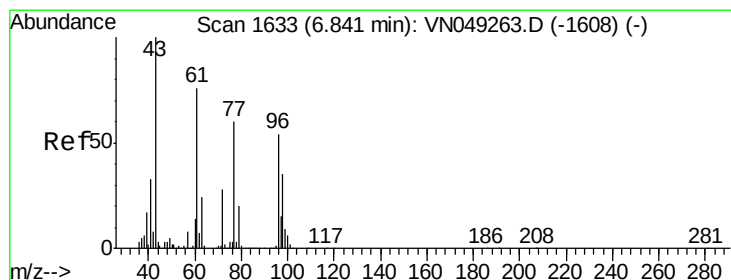
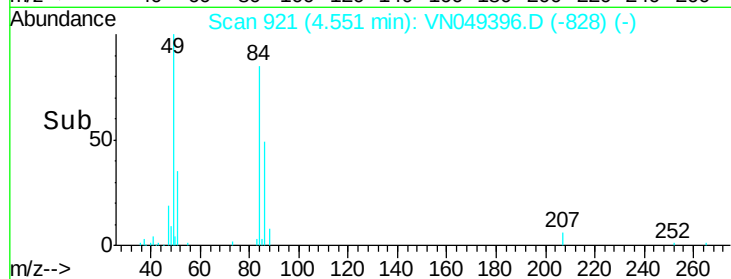
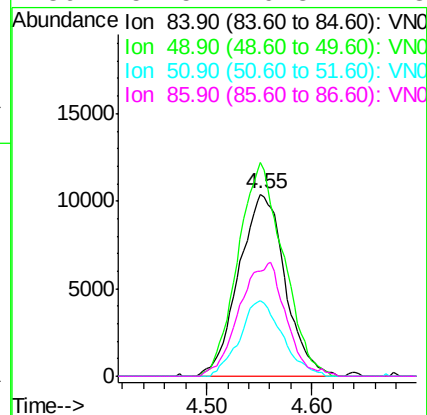
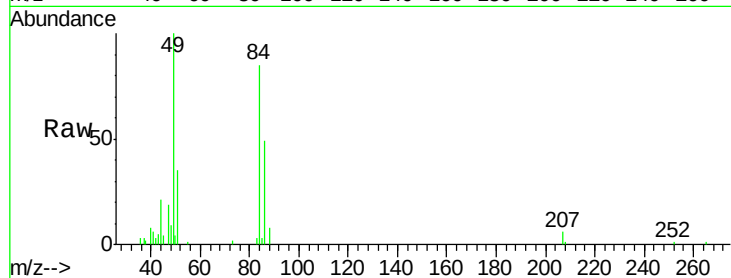




#20
Methylene Chloride
Concen: 2.00 ug/l
RT: 4.55 min Scan# 921
Delta R.T. -0.00 min
Lab File: VN049396.D
Acq: 19 Jun 2018 19:55

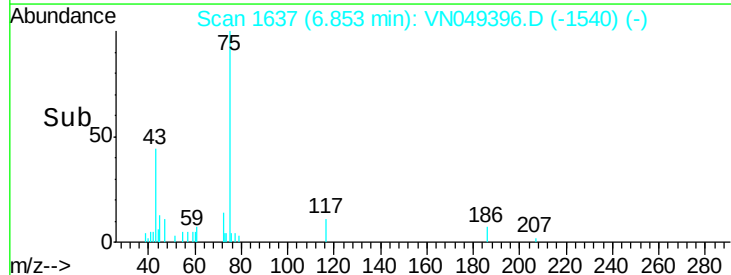
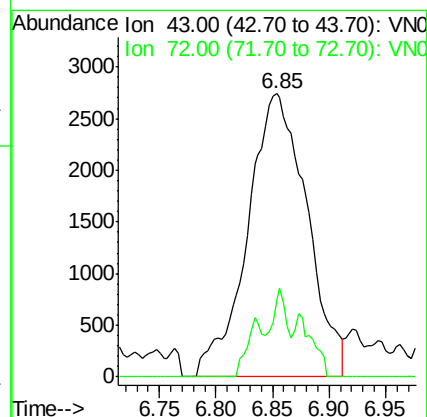
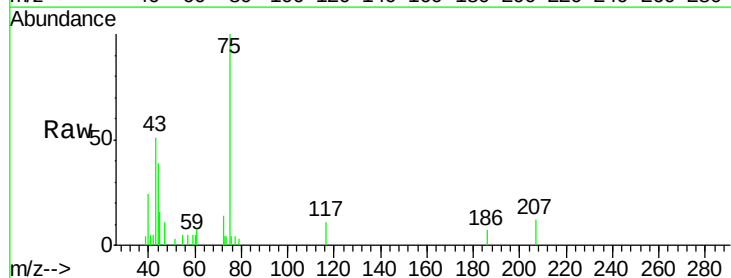
Instrument :
MSVOA_N
ClientSampleId :

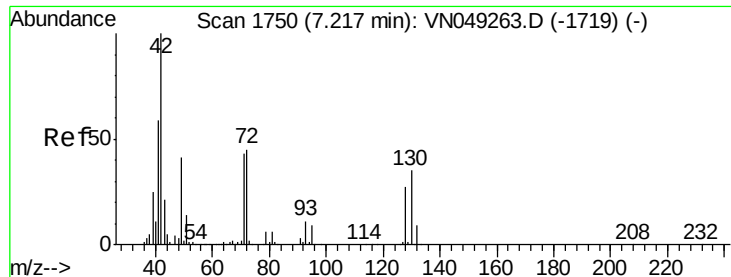
Tot Ion: 84 Resp: 31752
Ion Ratio Lower Upper
84 100
49 117.4 106.9 160.3
51 41.6 32.7 49.1
86 57.5 49.8 74.8



#25
2-Butanone
Concen: 1.97 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VN049396.D
Acq: 19 Jun 2018 19:55

Tgt Ion: 43 Resp: 10031
Ion Ratio Lower Upper
43 100
72 27.4 20.2 30.2

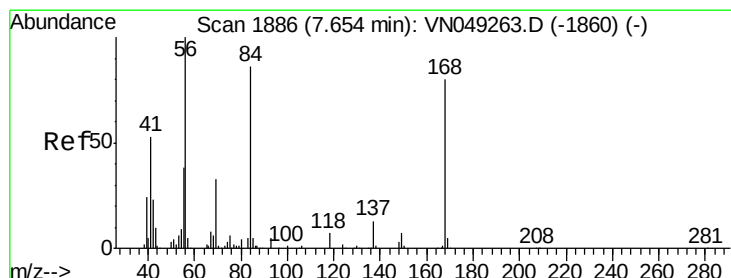
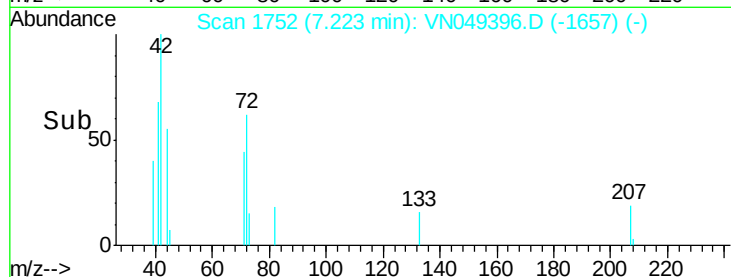
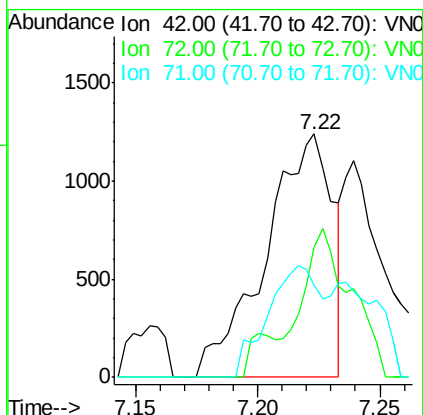
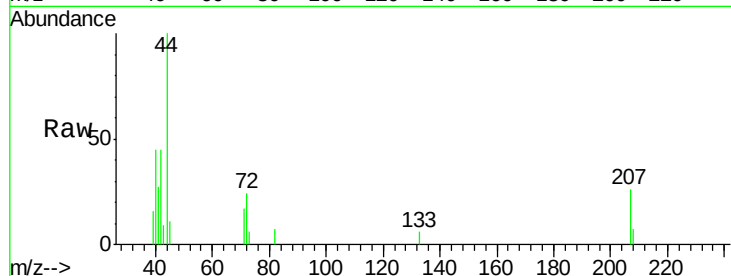




#29
Tetrahydrofuran
Concen: 0.72 ug/l
RT: 7.22 min Scan# 1752
Delta R.T. 0.01 min
Lab File: VN049396.D
Acq: 19 Jun 2018 19:55

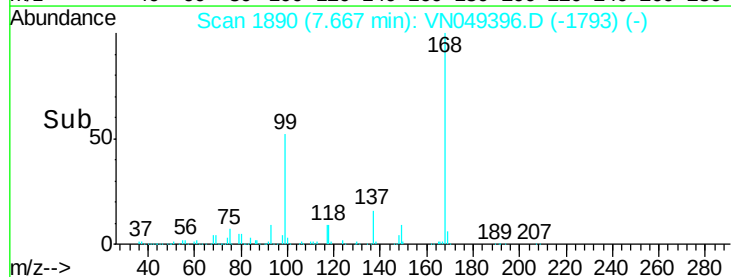
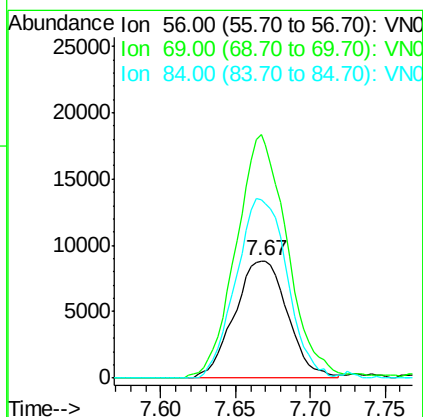
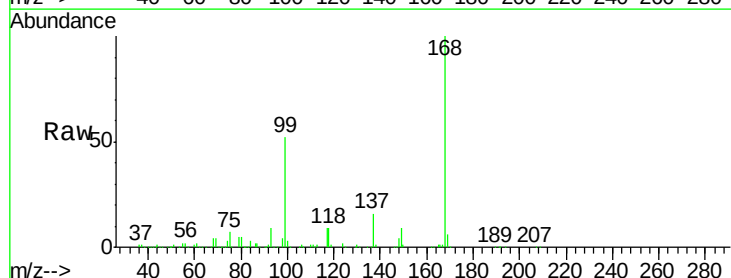
Instrument :
MSVOA_N
ClientSampled :

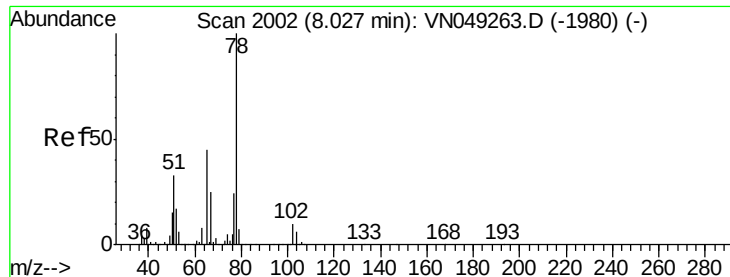
Tot Ion: 42 Resp: 2363
Ion Ratio Lower Upper
42 100
72 44.9 32.2 48.4
71 35.1 30.5 45.7



#31
Cyclohexane
Concen: 0.77 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049396.D
Acq: 19 Jun 2018 19:55

Tgt Ion: 56 Resp: 21772
Ion Ratio Lower Upper
56 100
69 205.4 25.0 37.4#
84 152.2 64.6 96.8#

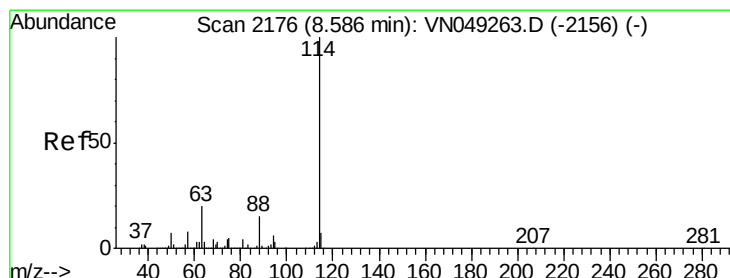
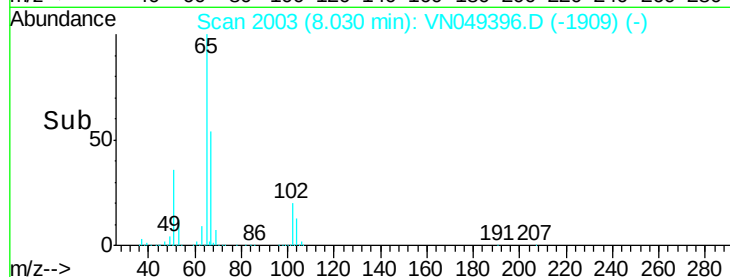
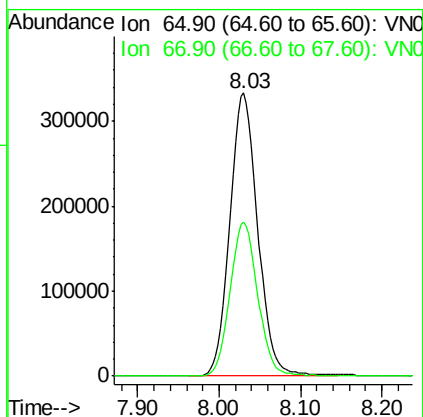
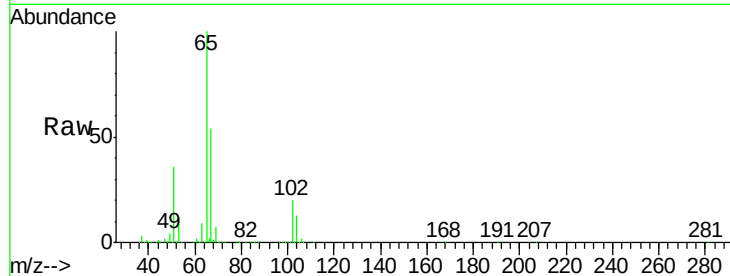




#33
 1,2-Dichloroethane-d4
 Concen: 50.99 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049396.D
 Acq: 19 Jun 2018 19:55

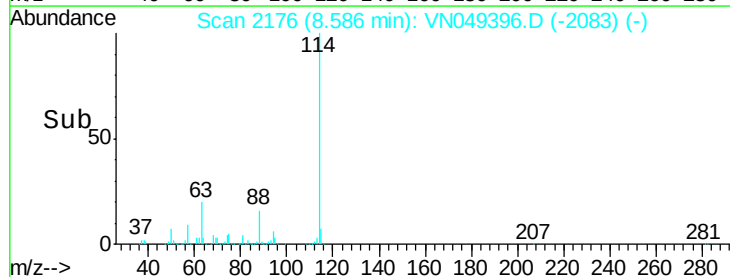
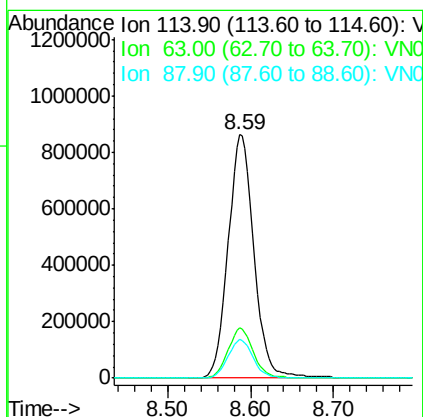
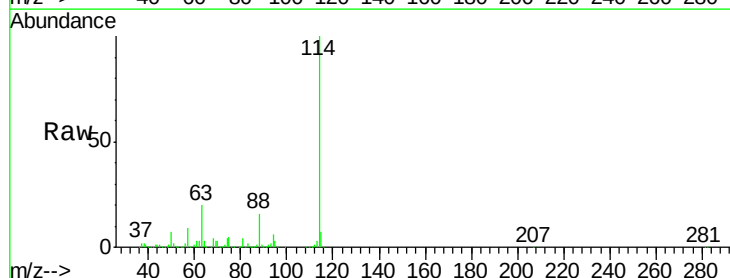
Instrument :
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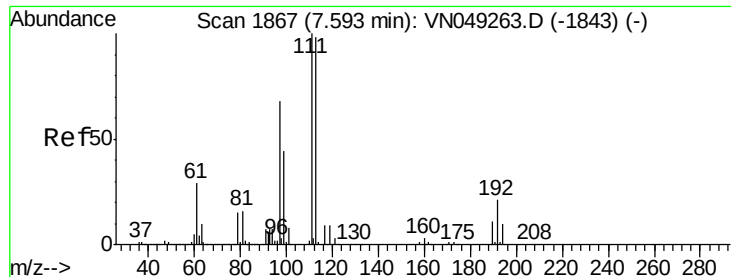
Tot Ion: 65 Resp: 798126
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN049396.D
 Acq: 19 Jun 2018 19:55

Tgt Ion: 114 Resp: 1871658
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 44.4
 88 15.8 0.0 31.4

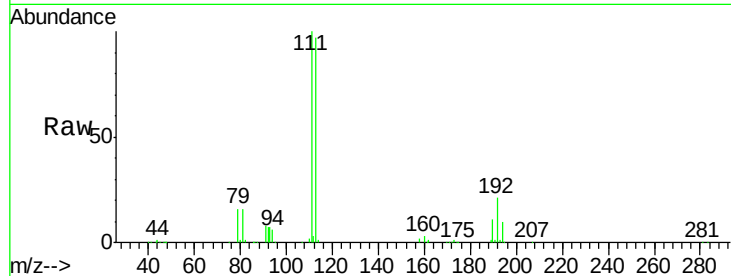




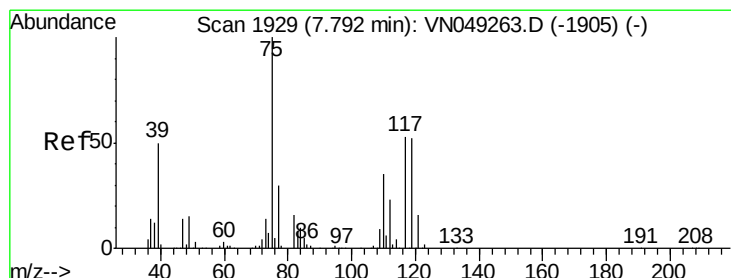
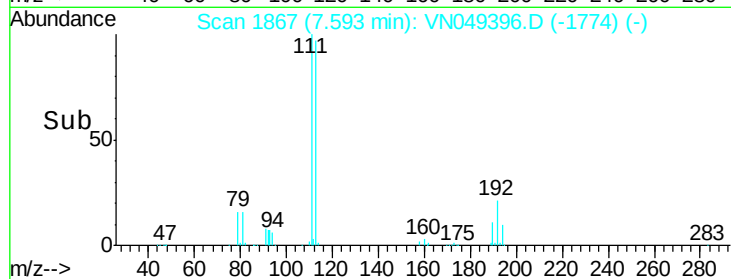
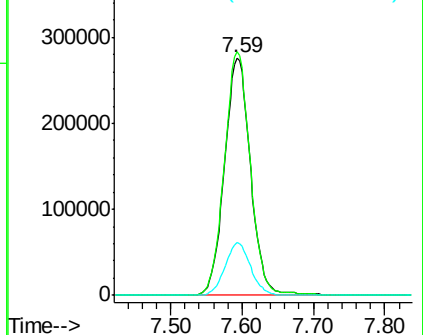
#35
 Dibromofluoromethane
 Concen: 46.36 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN049396.D
 Acq: 19 Jun 2018 19:55

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.4	123.6
192	21.9	15.0	22.6

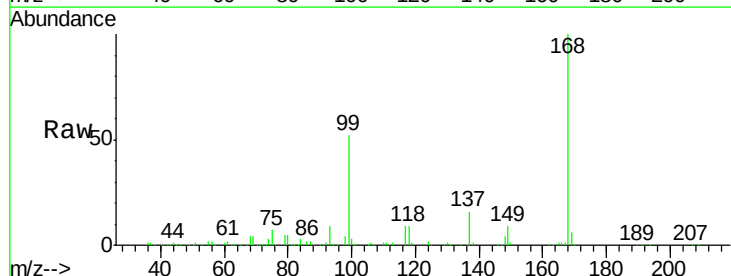


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

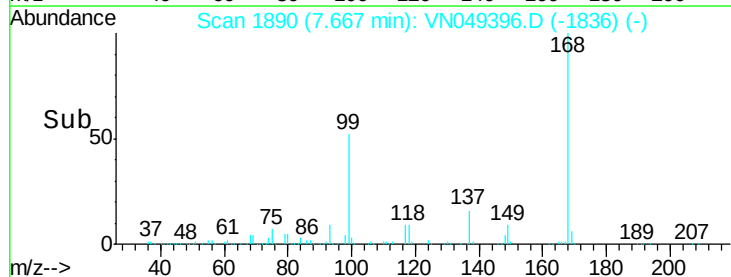
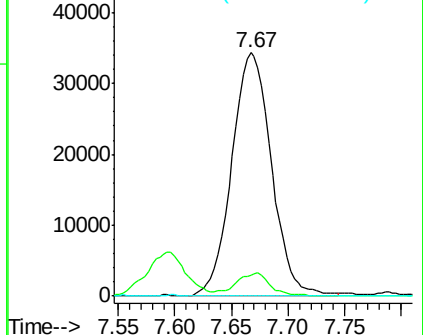


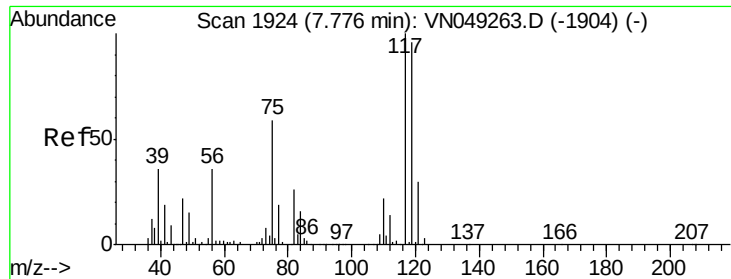
#36
 1,1-Dichloropropene
 Concen: 3.91 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049396.D
 Acq: 19 Jun 2018 19:55

Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.7	17.0	50.9#
77	0.0	24.4	36.6#



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VNO

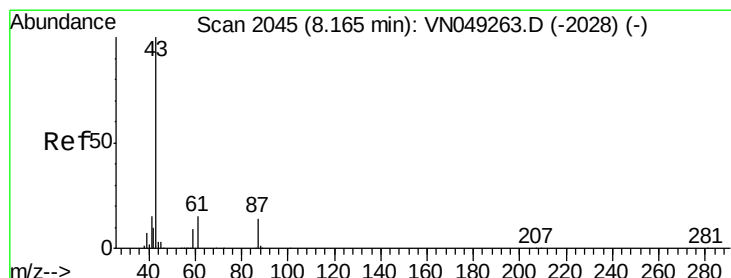
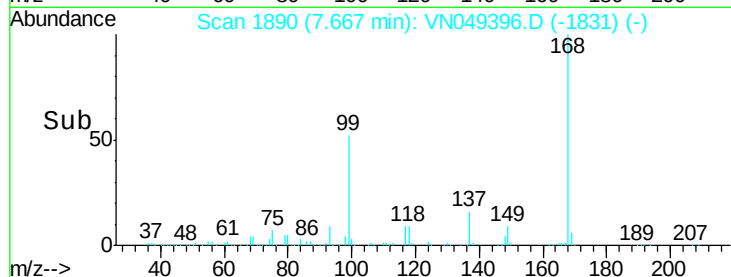
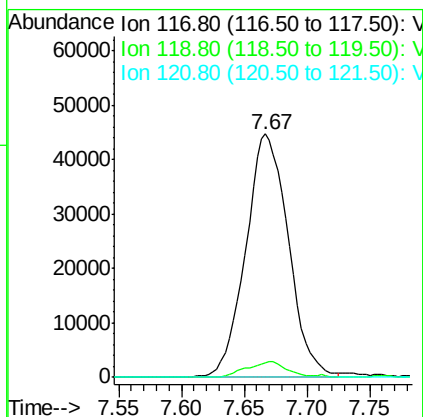
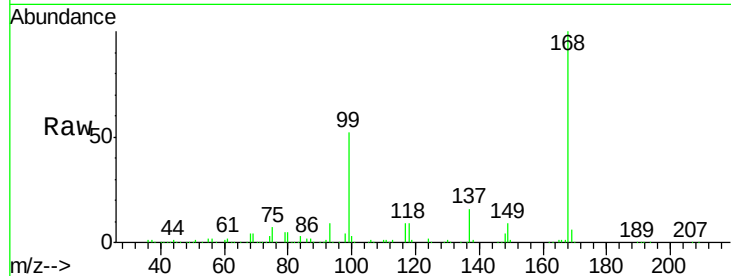




#38
Carbon Tetrachloride
Concen: 4.77 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN049396.D
Acq: 19 Jun 2018 19:55

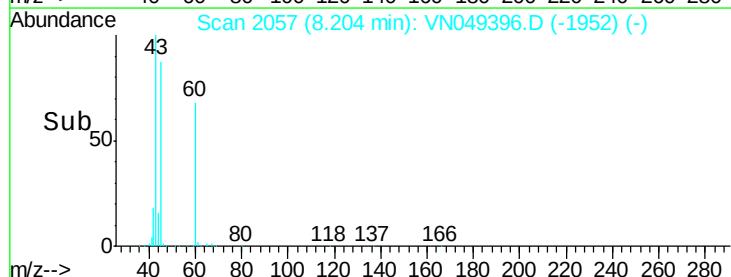
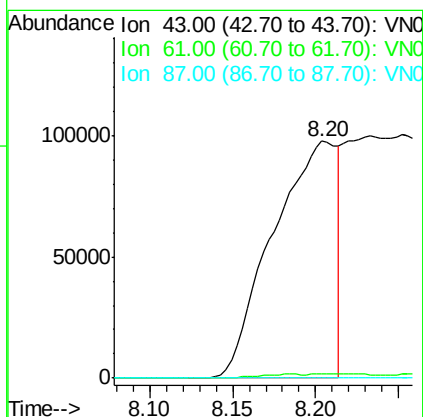
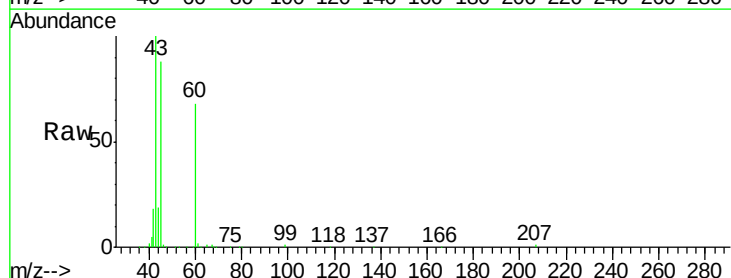
Instrument :
MSVOA_N
ClientSampled :

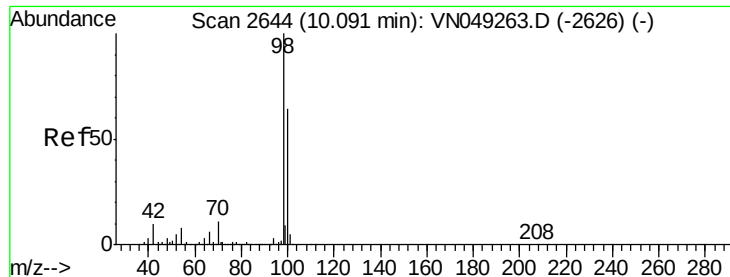
Tot Ion:117 Resp: 105986
Ion Ratio Lower Upper
117 100
119 6.0 75.6 113.4#
121 0.0 24.7 37.1#



#43
Isopropyl Acetate
Concen: 11.78 ug/l
RT: 8.20 min Scan# 2057
Delta R.T. 0.04 min
Lab File: VN049396.D
Acq: 19 Jun 2018 19:55

Tgt Ion: 43 Resp: 262550
Ion Ratio Lower Upper
43 100
61 0.0 14.2 21.4#
87 0.0 9.4 14.0#

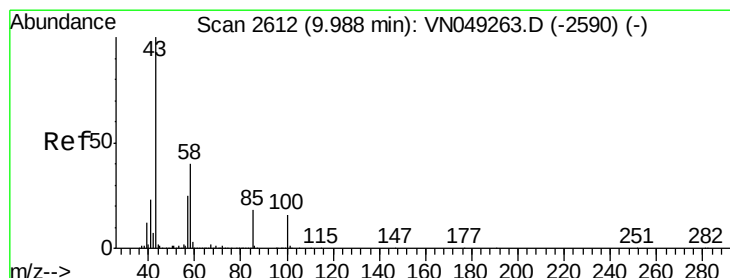
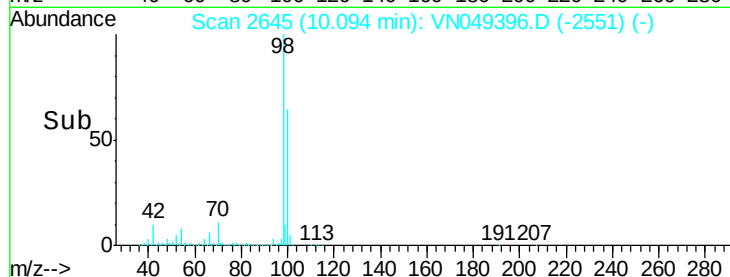
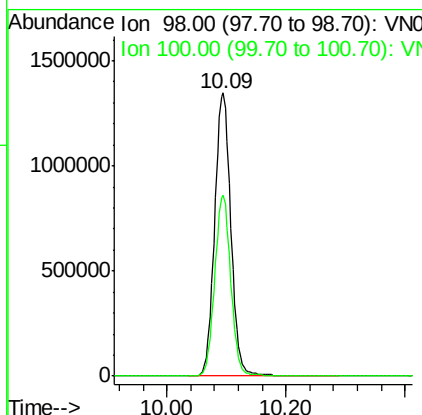
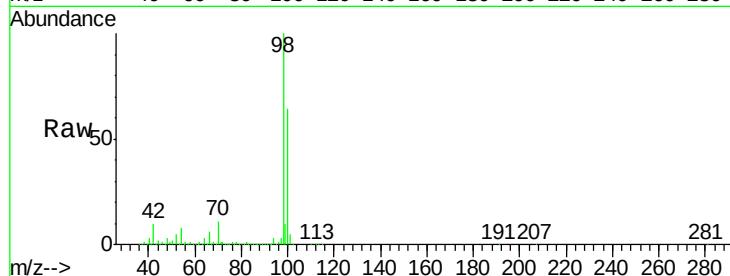




#50
Toluene-d8
Concen: 44.07 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049396.D
Acq: 19 Jun 2018 19:55

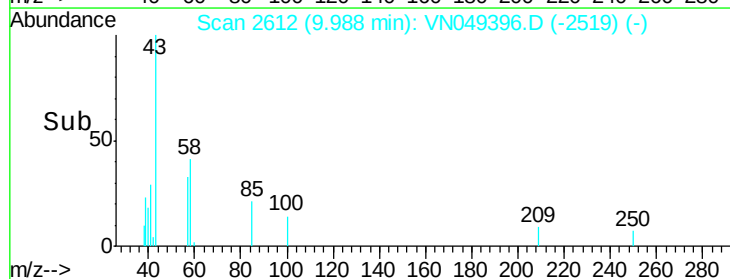
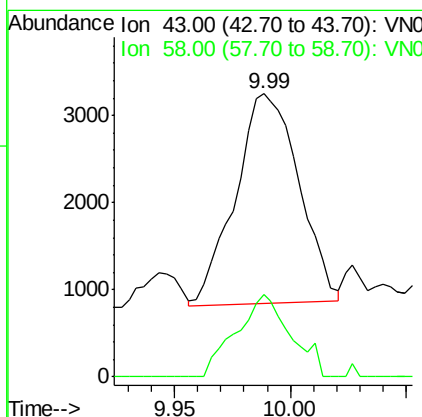
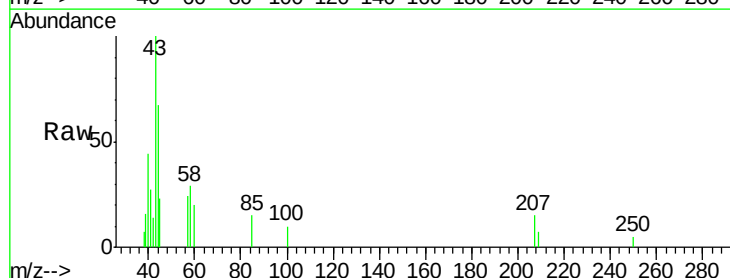
Instrument :
MSVOA_N
ClientSampled :

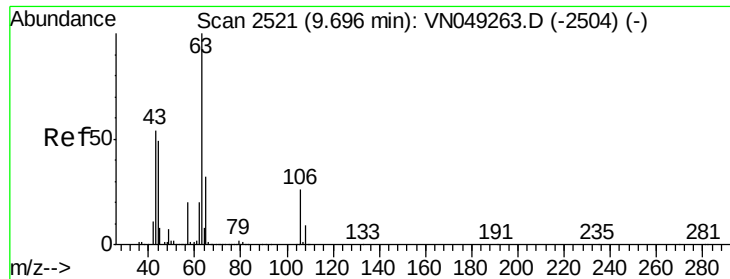
Tot Ion: 98 Resp: 2540902
Ion Ratio Lower Upper
98 100
100 63.2 49.8 74.8



#51
4-Methyl-2-Pentanone
Concen: 0.39 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. -0.00 min
Lab File: VN049396.D
Acq: 19 Jun 2018 19:55

Tgt Ion: 43 Resp: 4600
Ion Ratio Lower Upper
43 100
58 33.5 29.0 43.6





#58

2-Chloroethyl Vinyl ether

Concen: 14.34 ug/l

RT: 9.73 min Scan# 2531

Delta R.T. 0.03 min

Lab File: VN049396.D

Acq: 19 Jun 2018 19:55

Instrument :

MSVOA_N

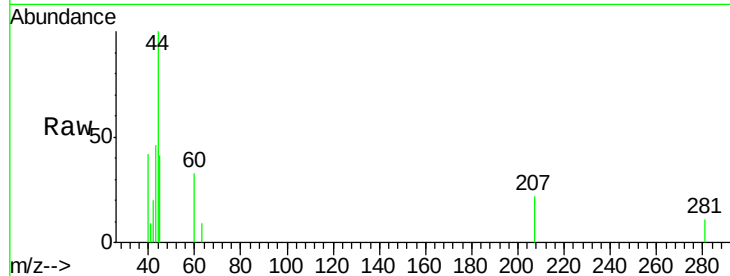
ClientSampleId :

Tot Ion: 63 Resp: 110

Ion Ratio Lower Upper

63 100

106 0.0 19.4 29.2#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.73

200

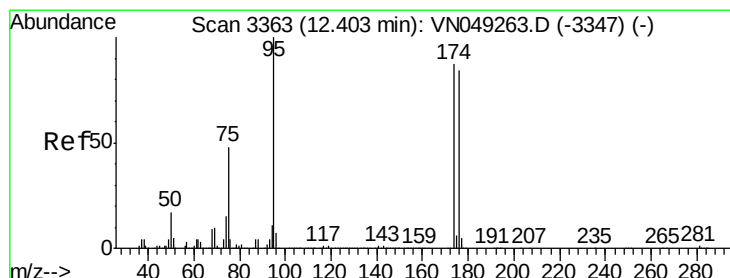
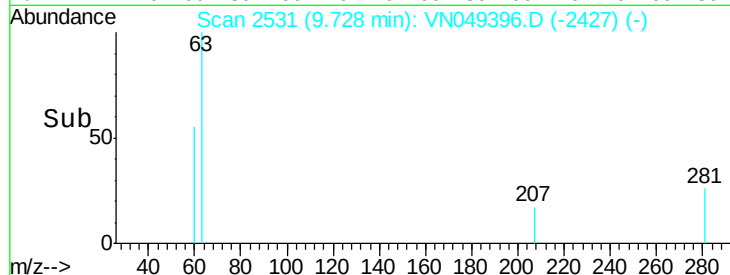
150

100

50

0

Time--> 9.71 9.72 9.73 9.74



#62

4-Bromofluorobenzene

Concen: 32.25 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN049396.D

Acq: 19 Jun 2018 19:55

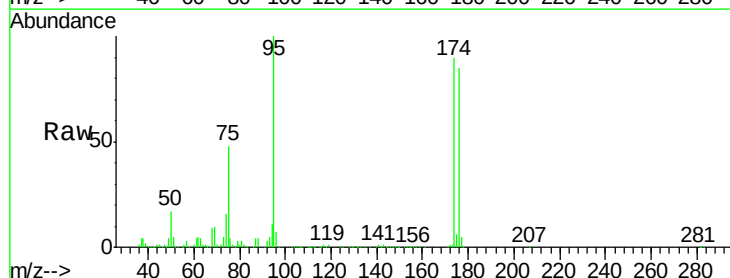
Tgt Ion: 95 Resp: 614863

Ion Ratio Lower Upper

95 100

174 88.7 0.0 165.6

176 85.5 0.0 157.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.41

400000

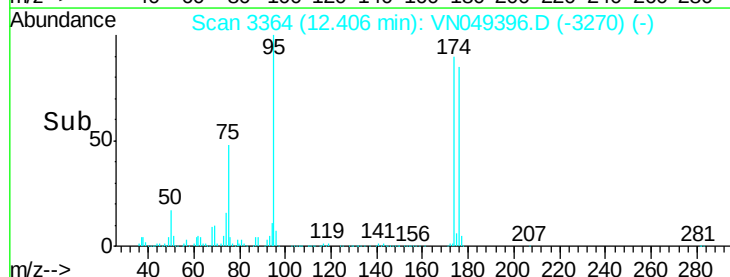
300000

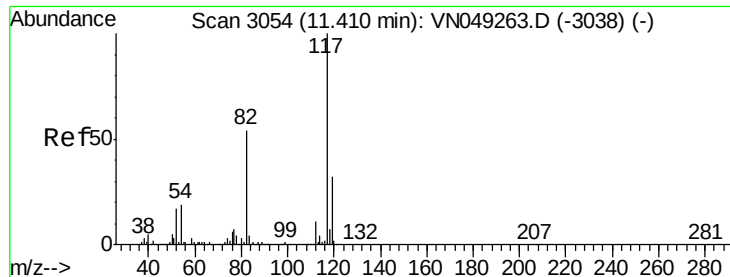
200000

100000

0

Time--> 12.30 12.40 12.50

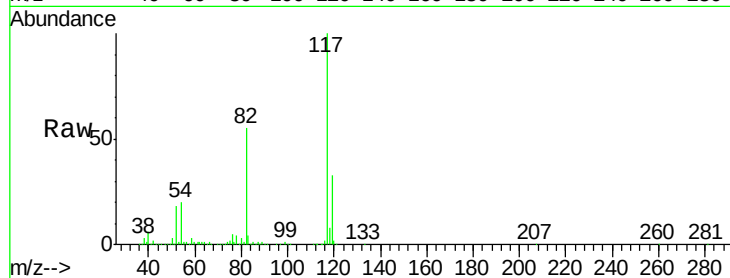




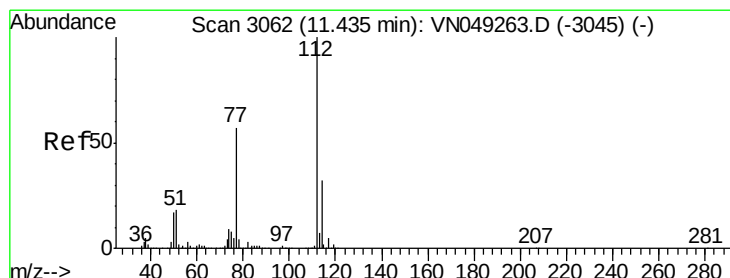
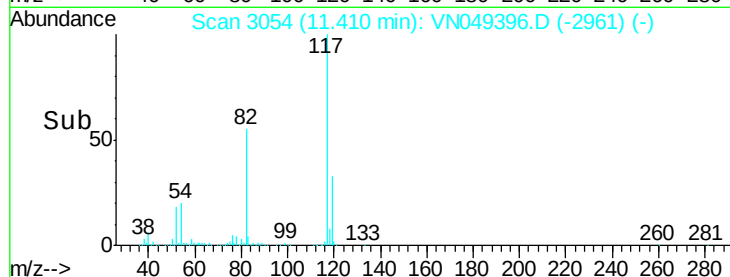
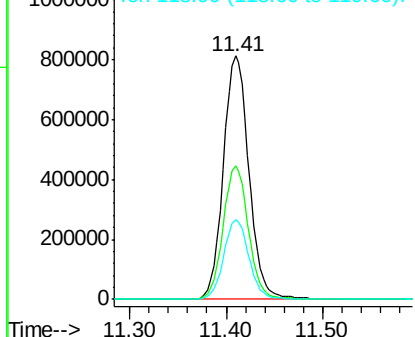
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN049396.D
Acq: 19 Jun 2018 19:55

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 1489733
Ion Ratio Lower Upper
117 100
82 54.7 45.9 68.9
119 32.5 25.5 38.3

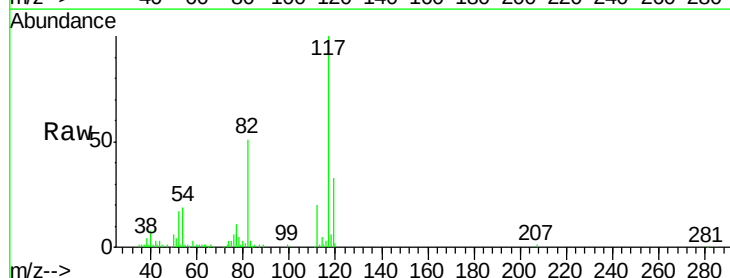


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

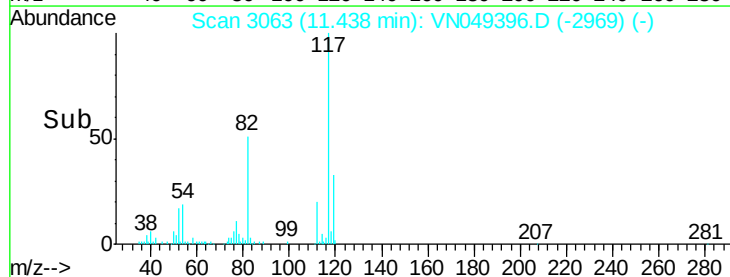
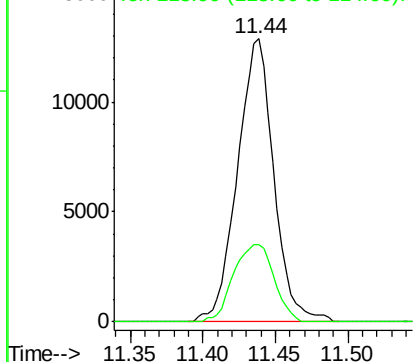


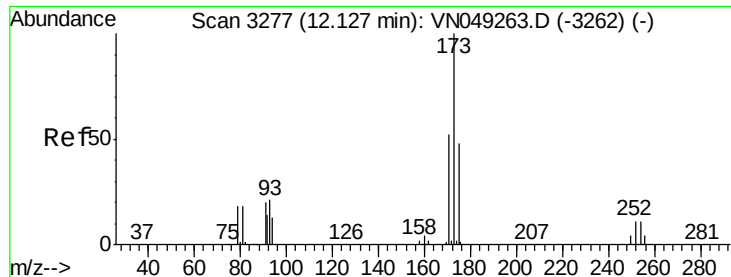
#65
Chlorobenzene
Concen: 0.58 ug/l
RT: 11.44 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN049396.D
Acq: 19 Jun 2018 19:55

Tgt Ion:112 Resp: 22446
Ion Ratio Lower Upper
112 100
114 27.5 26.2 39.4



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#71

Bromoform

Concen: 0.50 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN049396.D

Acq: 19 Jun 2018 19:55

Instrument :

MSVOA_N

ClientSampleId :

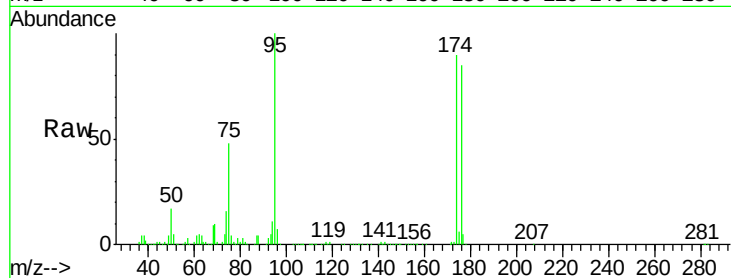
Tot Ion:173 Resp: 4674

Ion Ratio Lower Upper

173 100

175 641.9 24.5 73.5#

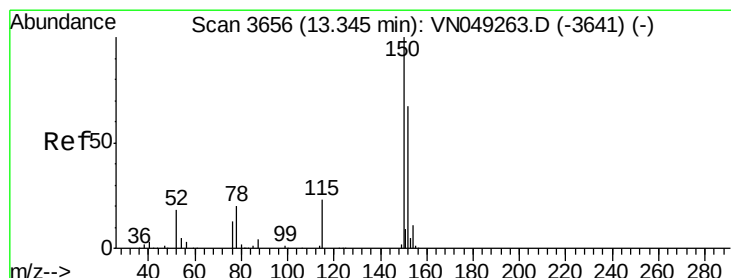
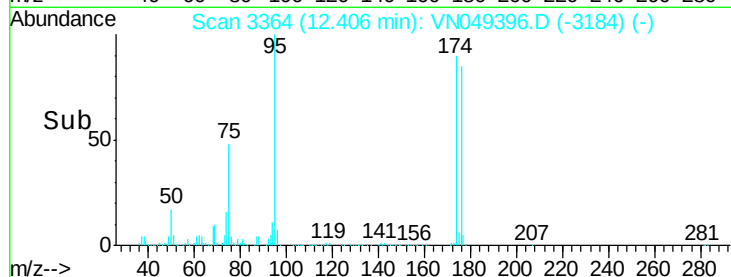
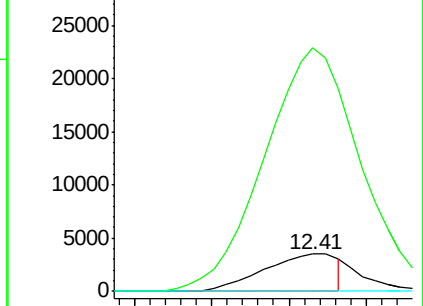
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049396.D

Acq: 19 Jun 2018 19:55

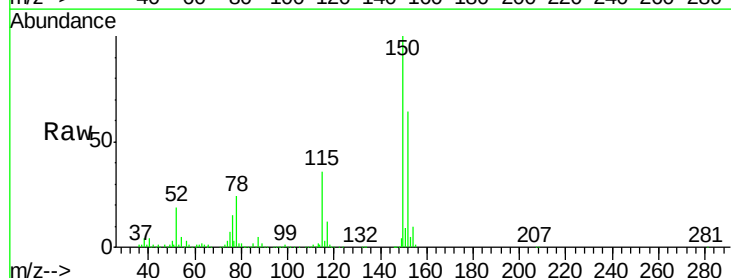
Tgt Ion:152 Resp: 396569

Ion Ratio Lower Upper

152 100

115 56.6 28.7 86.1

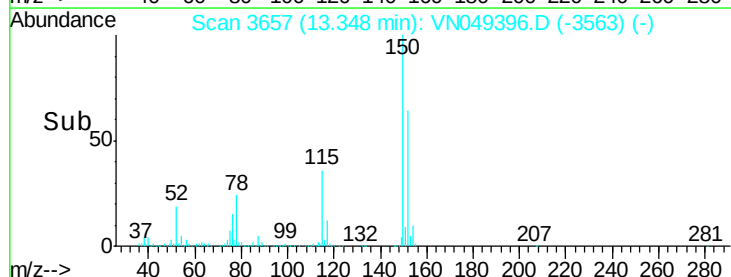
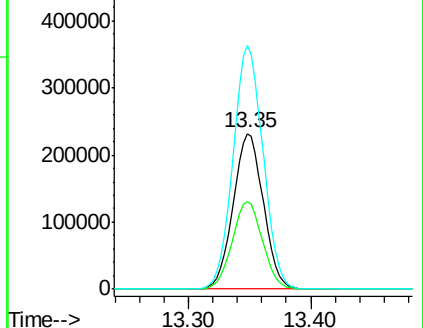
150 155.7 0.0 351.0

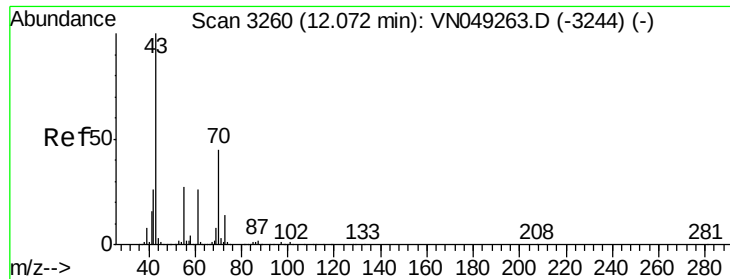


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.36 ug/l

RT: 12.04 min Scan# 3250

Delta R.T. -0.03 min

Lab File: VN049396.D

Acq: 19 Jun 2018 19:55

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 3076

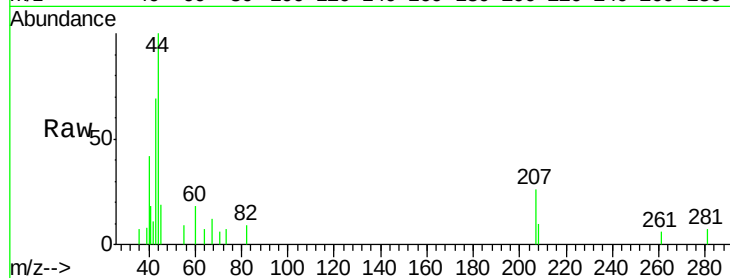
Ion Ratio Lower Upper

43 100

70 0.0 30.3 45.5#

55 13.2 19.4 29.2#

61 0.0 17.8 26.6#

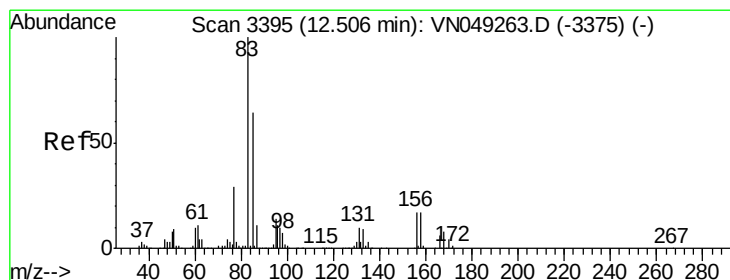
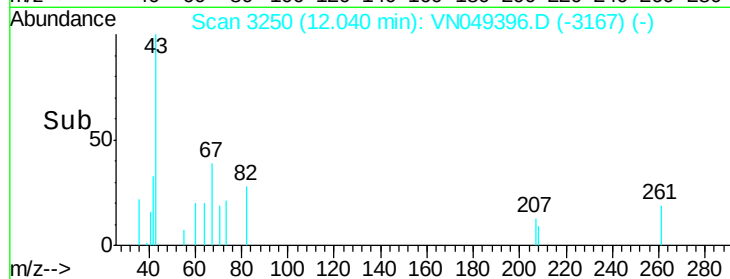
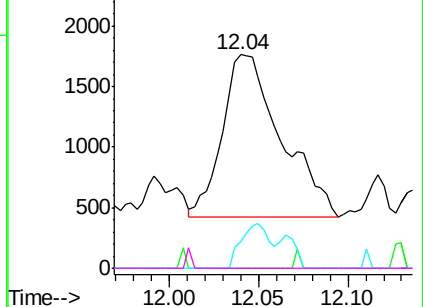


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.55 min Scan# 3408

Delta R.T. 0.04 min

Lab File: VN049396.D

Acq: 19 Jun 2018 19:55

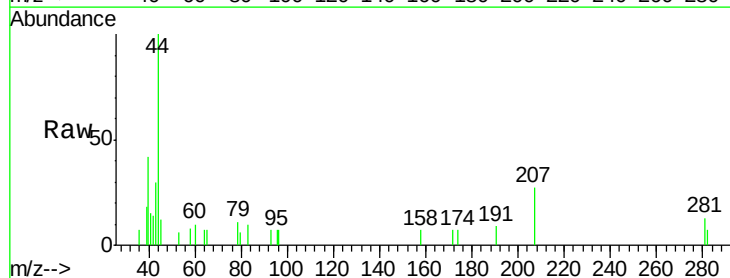
Tgt Ion: 83 Resp: 118

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

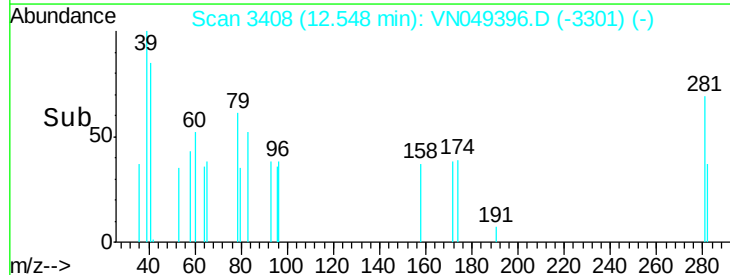
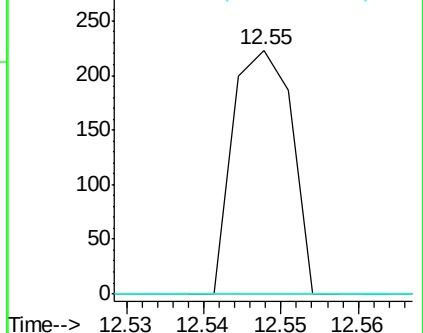
85 0.0 32.0 96.0#

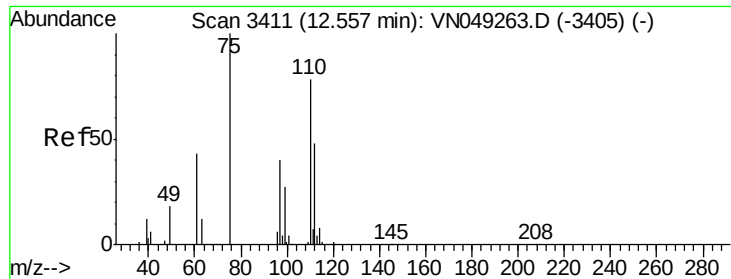


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0





#76

1,2,3-Trichloropropane

Concen: 43.42 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049396.D

Acq: 19 Jun 2018 19:55

Instrument :

MSVOA_N

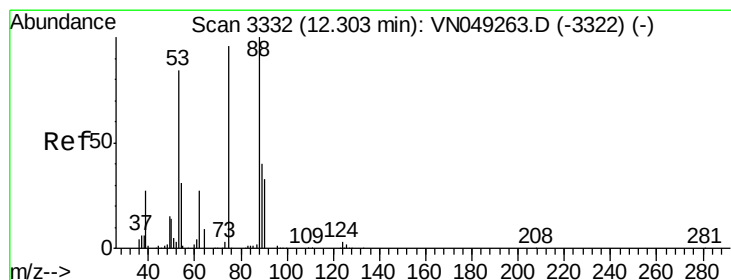
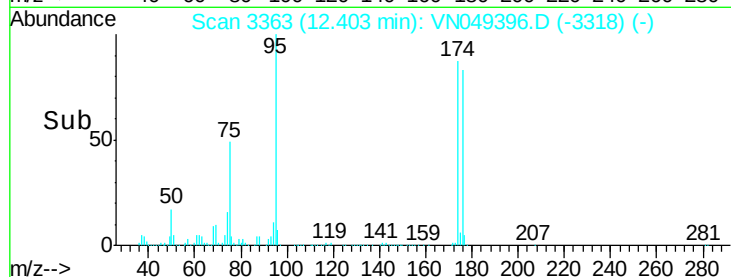
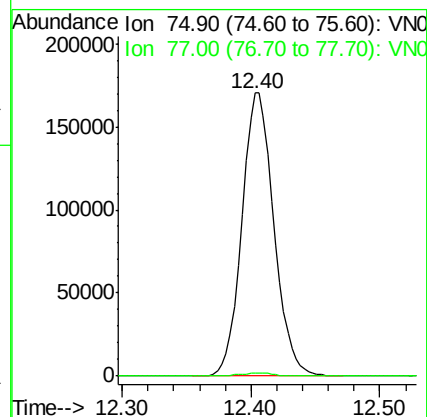
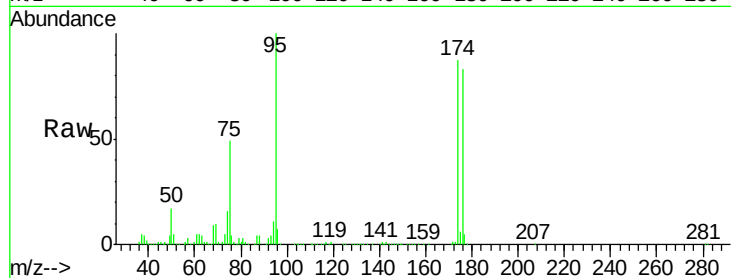
ClientSampleId :

Tot Ion: 75 Resp: 293793

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 137.23 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049396.D

Acq: 19 Jun 2018 19:55

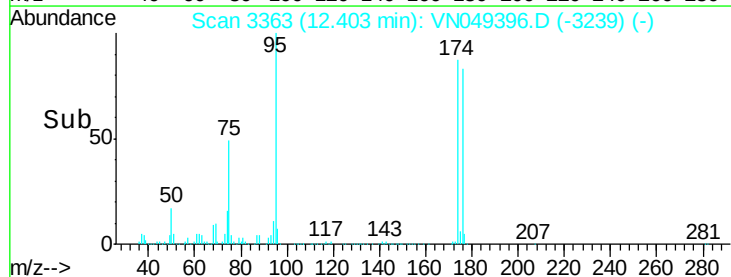
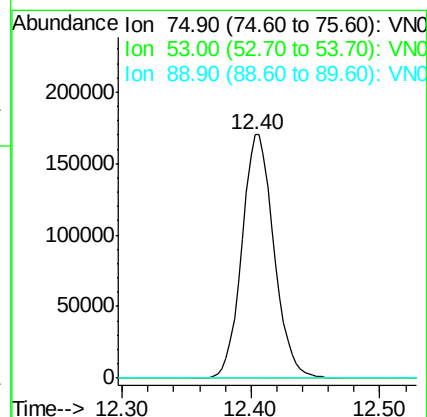
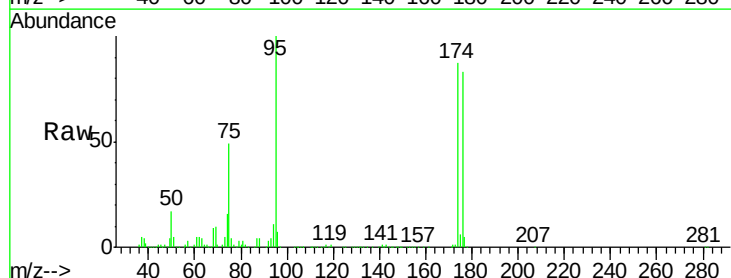
Tgt Ion: 75 Resp: 293793

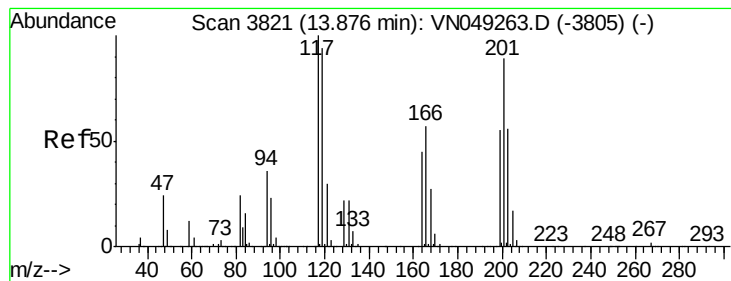
Ion Ratio Lower Upper

75 100

53 0.2 82.7 124.1#

89 0.0 36.5 54.7#





#90

Hexachloroethane

Concen: Below Cal

RT: 14.01 min Scan# 3864

Delta R.T. 0.14 min

Lab File: VN049396.D

Acq: 19 Jun 2018 19:55

Instrument :

MSVOA_N

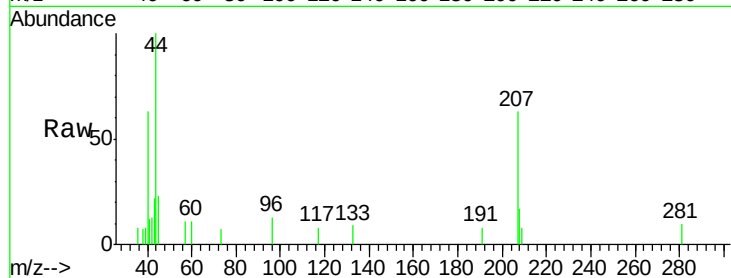
ClientSampleId :

Tot Ion:117 Resp: 68

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

14.01

200

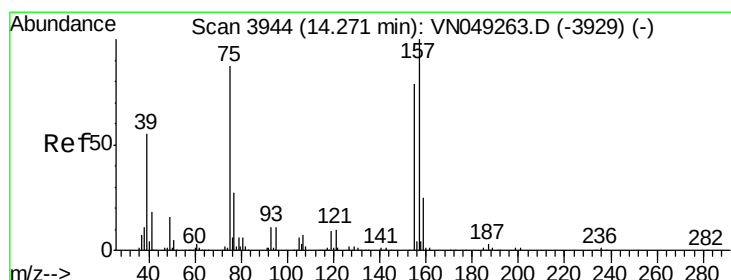
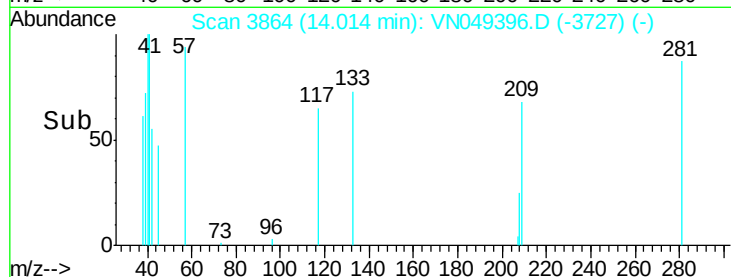
150

100

50

0

Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.32 ug/l

RT: 14.26 min Scan# 3939

Delta R.T. -0.02 min

Lab File: VN049396.D

Acq: 19 Jun 2018 19:55

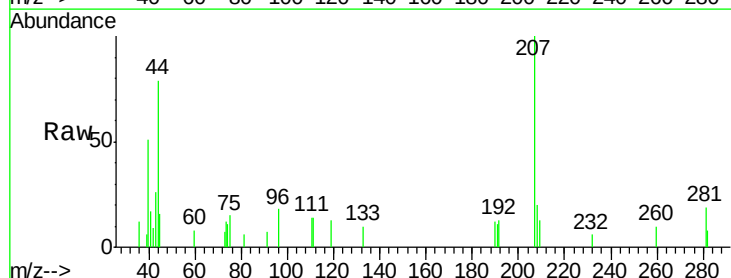
Tgt Ion: 75 Resp: 391

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): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

500

400

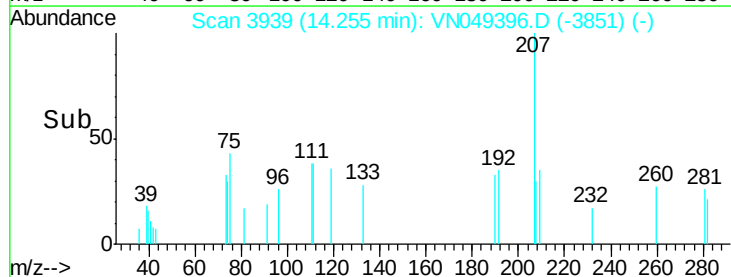
300

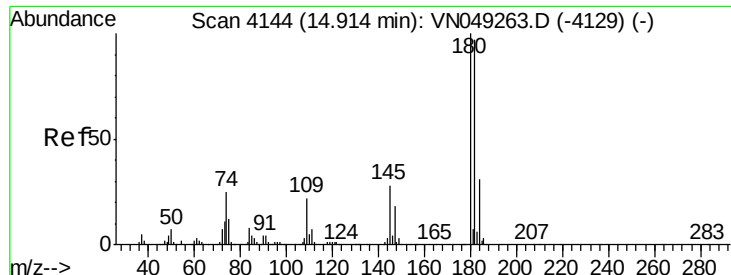
200

100

0

Time-->

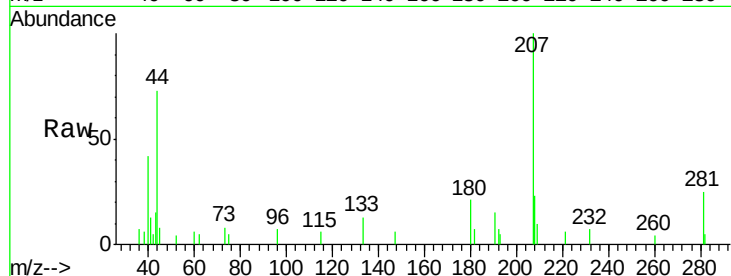




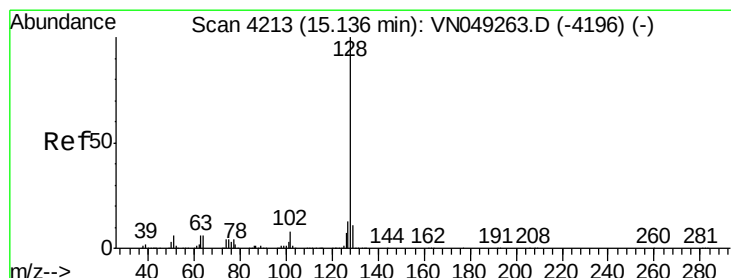
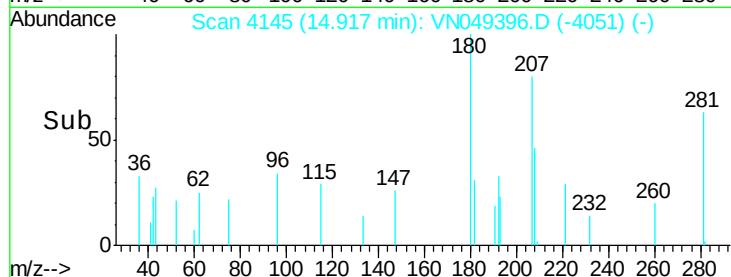
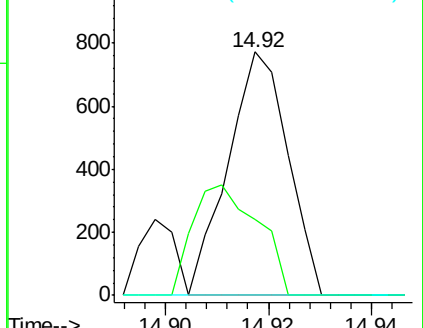
#93
 1,2,4-Trichlorobenzene
 Concen: 4.83 ug/l
 RT: 14.92 min Scan# 4145
 Delta R.T. 0.00 min
 Lab File: VN049396.D
 Acq: 19 Jun 2018 19:55

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 621
 Ion Ratio Lower Upper
 180 100
 182 49.8 46.9 140.8
 145 0.0 14.7 44.1#

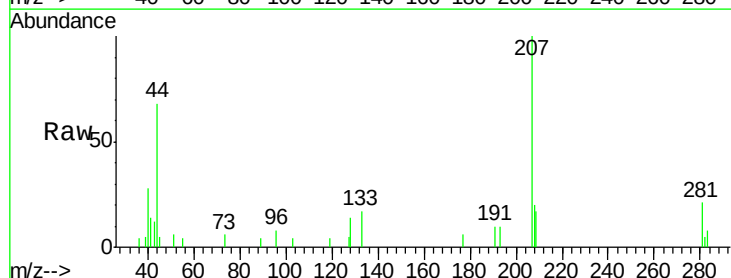


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

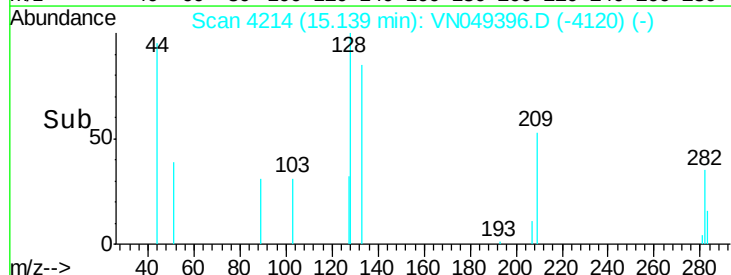
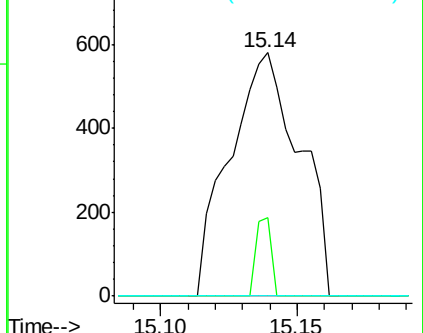


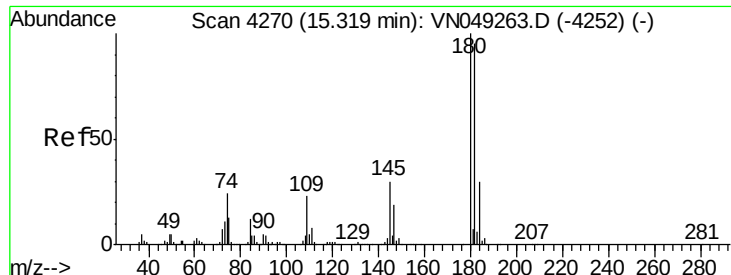
#95
 Naphthalene
 Concen: 2.17 ug/l
 RT: 15.14 min Scan# 4214
 Delta R.T. 0.00 min
 Lab File: VN049396.D
 Acq: 19 Jun 2018 19:55

Tgt Ion:128 Resp: 1029
 Ion Ratio Lower Upper
 128 100
 127 6.8 10.6 16.0#
 129 0.0 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

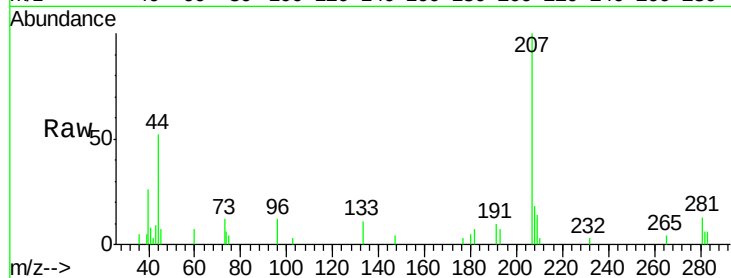




#96
 1,2,3-Trichlorobenzene
 Concen: 3.49 ug/l
 RT: 15.32 min Scan# 4271
 Delta R.T. 0.00 min
 Lab File: VN049396.D
 Acq: 19 Jun 2018 19:55

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	171.6	47.3	141.8#
145	0.0	15.6	46.7#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

