

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061918\
 Data File : VN049403.D
 Acq On : 19 Jun 2018 22:56
 Operator : MD\SY
 Sample : PB110363ZHE#15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 20 04:35:17 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	1159103	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1871380	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1525220	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	425556	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	796990	51.84	ug/l	0.00
Spiked Amount						
			Recovery	=	103.68%	
35) Dibromofluoromethane	7.59	113	695798	45.96	ug/l	0.00
Spiked Amount						
			Recovery	=	91.92%	
50) Toluene-d8	10.09	98	2533400	43.95	ug/l	0.00
Spiked Amount						
			Recovery	=	87.90%	
62) 4-Bromofluorobenzene	12.41	95	632199	33.17	ug/l	0.00
Spiked Amount						
			Recovery	=	66.34%	

Target Compounds

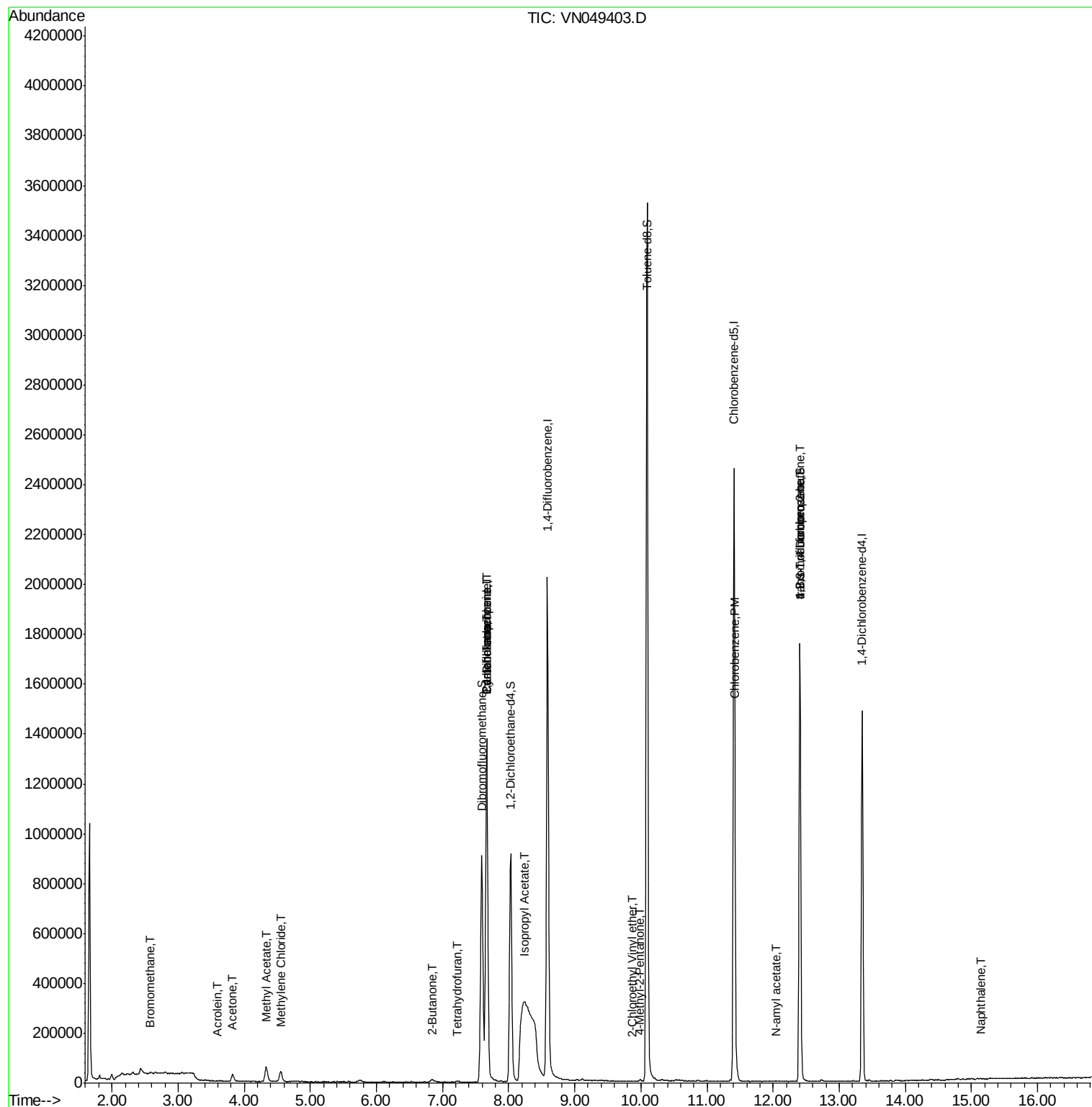
						Qvalue
5) Bromomethane	2.57	94	2901	0.30	ug/l #	80
13) Acrolein	3.61	56	306	0.32	ug/l #	73
16) Acetone	3.82	43	46027	12.33	ug/l	99
18) Methyl Acetate	4.33	43	114357	10.05	ug/l	98
20) Methylene Chloride	4.55	84	30456	1.95	ug/l #	84
25) 2-Butanone	6.85	43	7599	1.52	ug/l	96
29) Tetrahydrofuran	7.21	42	1423	0.44	ug/l	94
31) Cyclohexane	7.67	56	21957	0.79	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	84259	3.93	ug/l #	49
38) Carbon Tetrachloride	7.67	117	106346	4.79	ug/l #	17
43) Isopropyl Acetate	8.23	43	453745	20.37	ug/l #	65
51) 4-Methyl-2-Pentanone	9.99	43	4402	0.38	ug/l #	80
58) 2-Chloroethyl Vinyl ether	9.87	63	29	14.33	ug/l #	51
65) Chlorobenzene	11.43	112	21266	0.54	ug/l	91
74) N-amyl acetate	12.05	43	2871	0.31	ug/l #	47
75) 1,1,2,2-Tetrachloroethane	12.43	83	167	Below	Cal #	1
76) 1,2,3-Trichloropropane	12.40	75	305631	42.09	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	305631	133.03	ug/l #	9
90) Hexachloroethane	13.62	117	31	Below	Cal #	9
95) Naphthalene	15.14	128	325	2.11	ug/l #	69

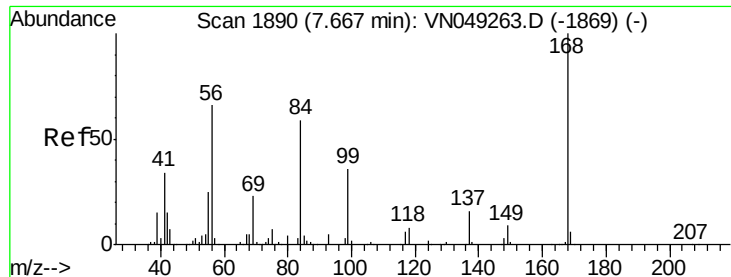
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN049403.D

Acq: 19 Jun 2018 22:56

Instrument :

MSVOA_N

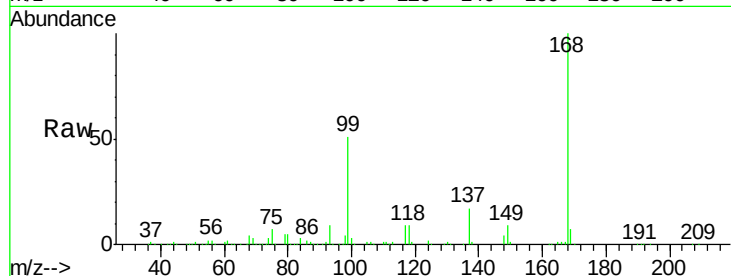
ClientSampleId :

Tot Ion:168 Resp: 1159103

Ion Ratio Lower Upper

168 100

99 51.0 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

500000

400000

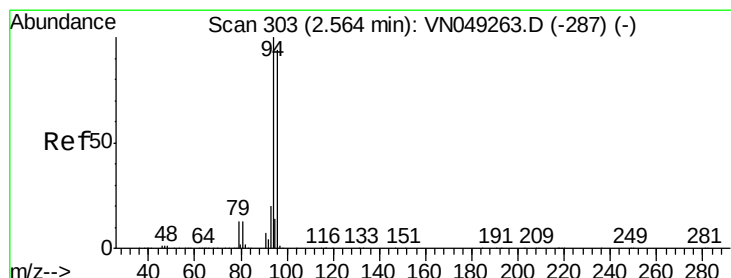
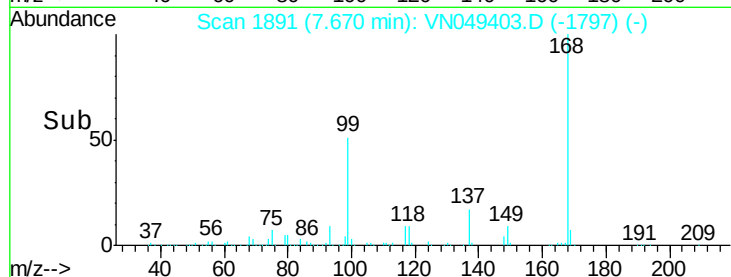
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 0.30 ug/l

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN049403.D

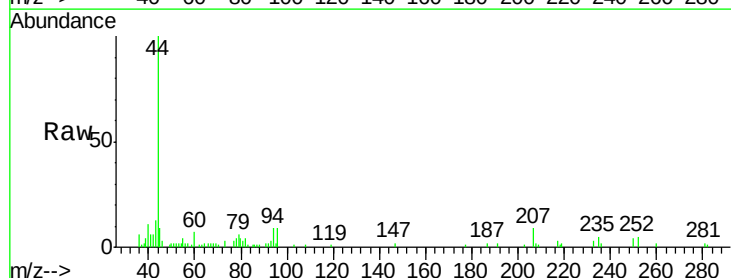
Acq: 19 Jun 2018 22:56

Tgt Ion: 94 Resp: 2901

Ion Ratio Lower Upper

94 100

96 72.1 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

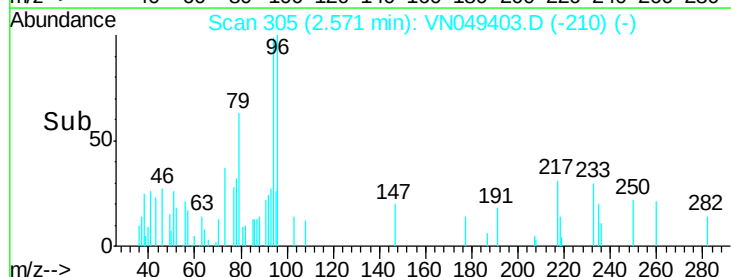
2.57

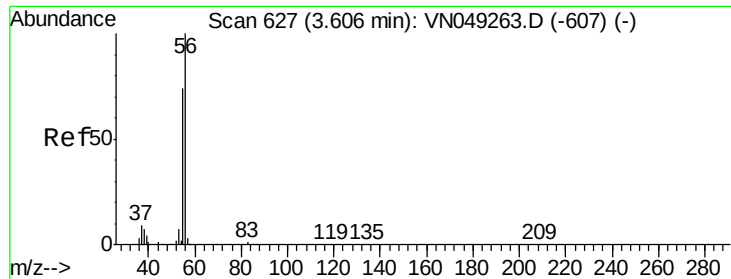
1000

500

0

Time-->

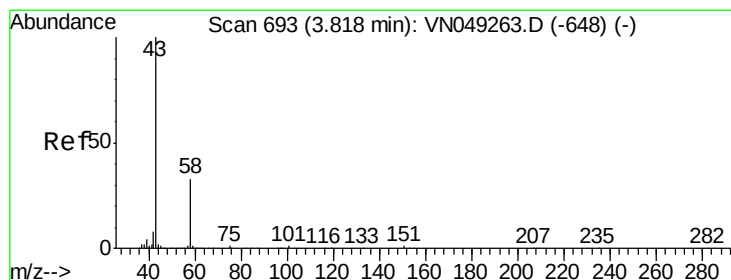
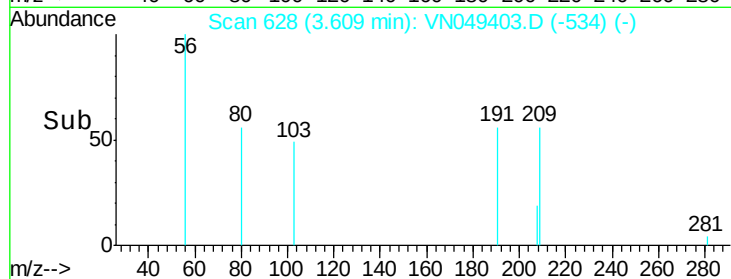
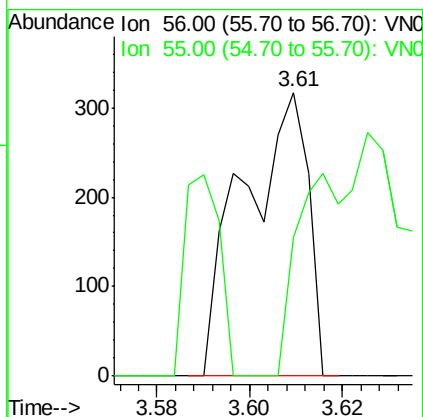
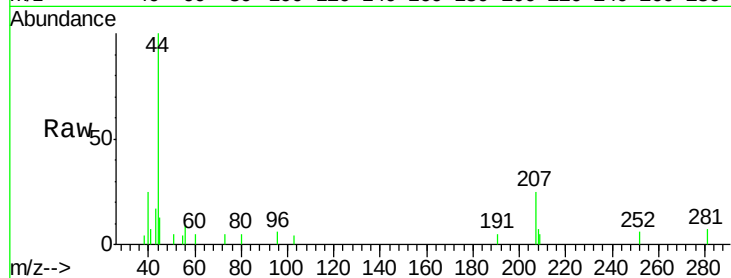




#13
Acrolein
Concen: 0.32 ug/l
RT: 3.61 min Scan# 628
Delta R.T. 0.00 min
Lab File: VN049403.D
Acq: 19 Jun 2018 22:56

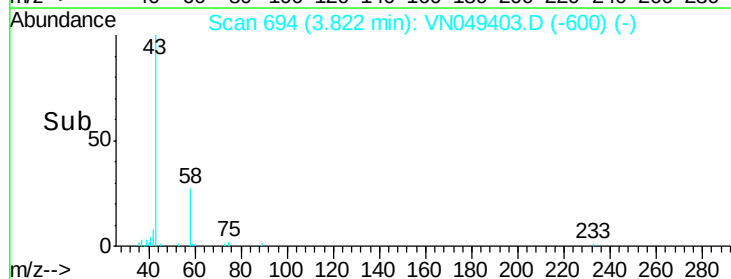
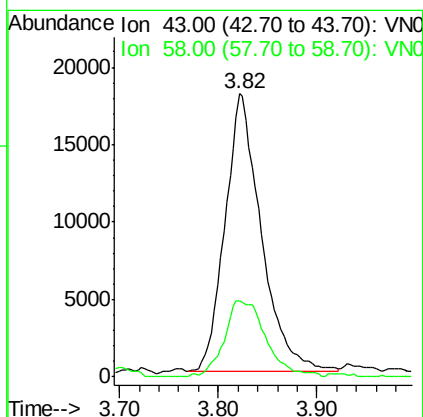
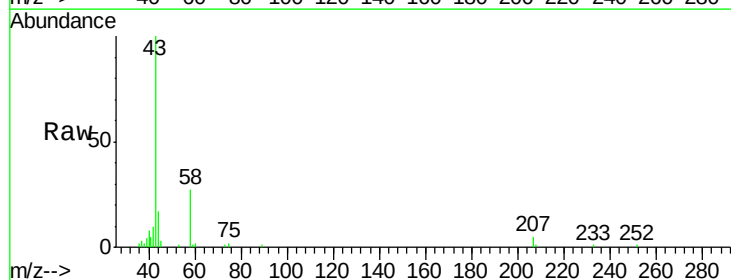
Instrument :
MSVOA_N
ClientSampled :

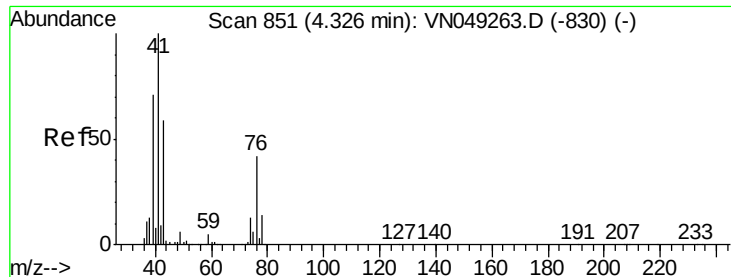
Tot Ion: 56 Resp: 306
Ion Ratio Lower Upper
56 100
55 49.0 57.1 85.7#



#16
Acetone
Concen: 12.33 ug/l
RT: 3.82 min Scan# 694
Delta R.T. 0.00 min
Lab File: VN049403.D
Acq: 19 Jun 2018 22:56

Tgt Ion: 43 Resp: 46027
Ion Ratio Lower Upper
43 100
58 27.4 22.4 33.6

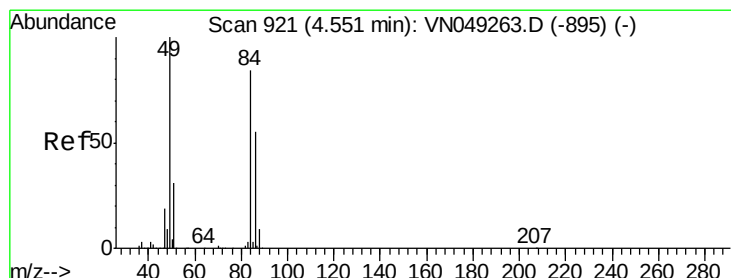
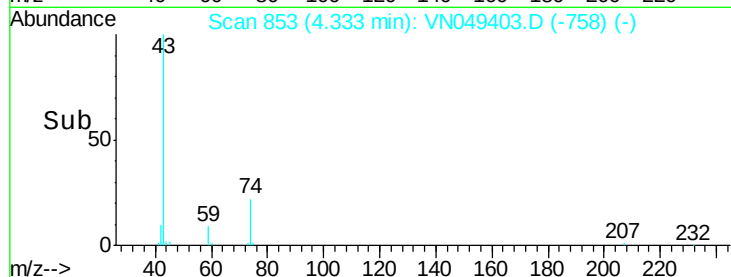
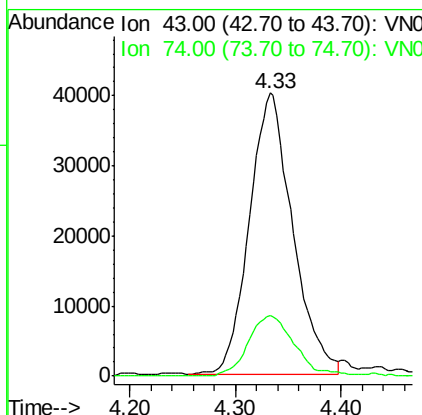
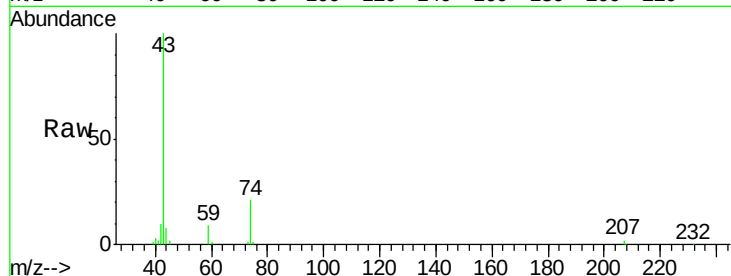




#18
Methvl Acetate
Concen: 10.05 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN049403.D
Acq: 19 Jun 2018 22:56

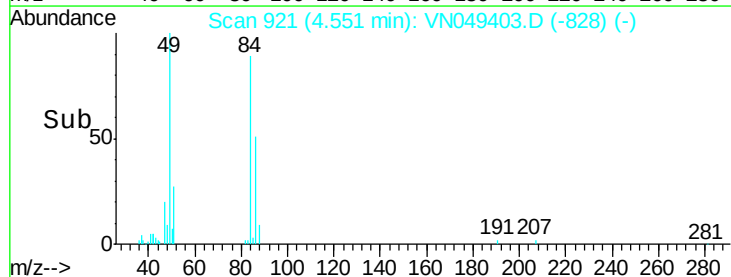
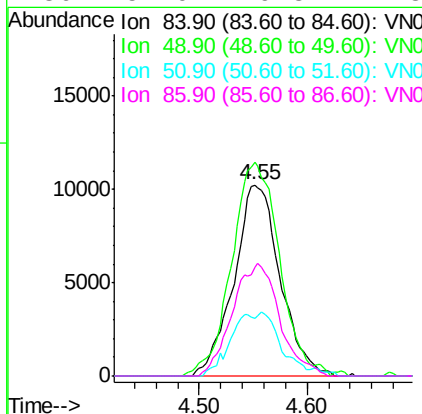
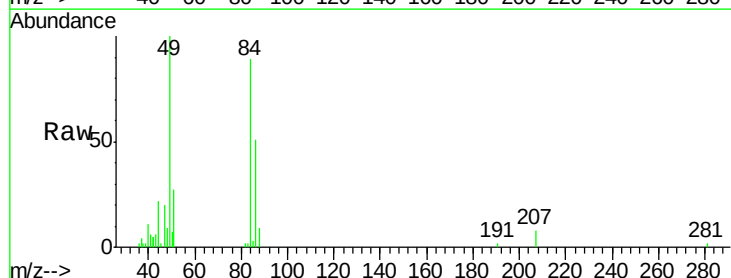
Instrument :
MSVOA_N
ClientSampleId :

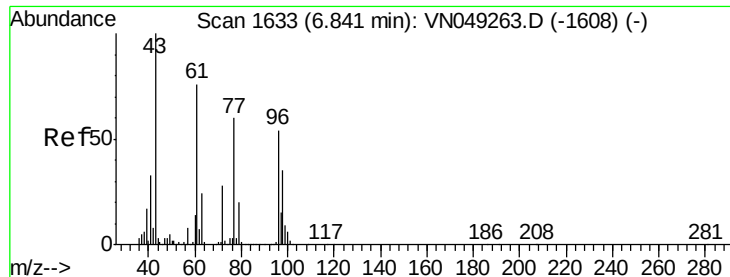
Tot Ion: 43 Resp: 114357
Ion Ratio Lower Upper
43 100
74 22.9 17.4 26.0



#20
Methylene Chloride
Concen: 1.95 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN049403.D
Acq: 19 Jun 2018 22:56

Tgt Ion: 84 Resp: 30456
Ion Ratio Lower Upper
84 100
49 109.9 106.9 160.3
51 30.2 32.7 49.1#
86 57.0 49.8 74.8

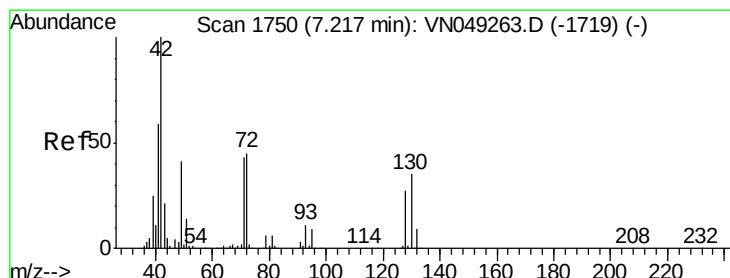
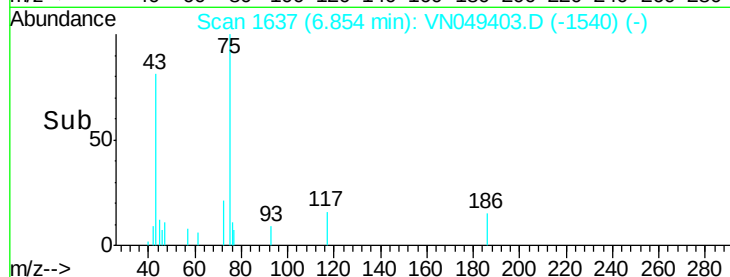
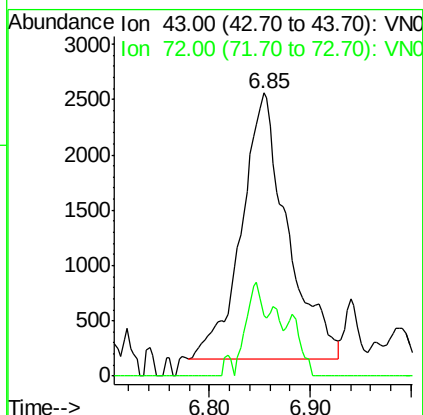
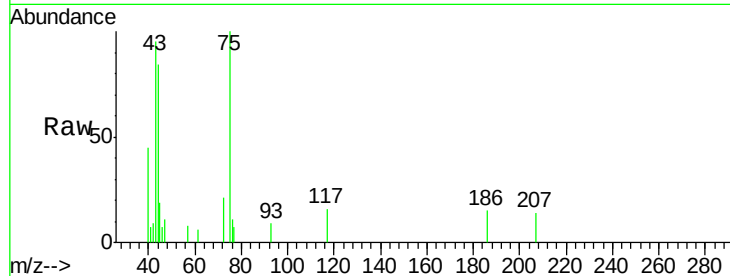




#25
2-Butanone
Concen: 1.52 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VN049403.D
Acq: 19 Jun 2018 22:56

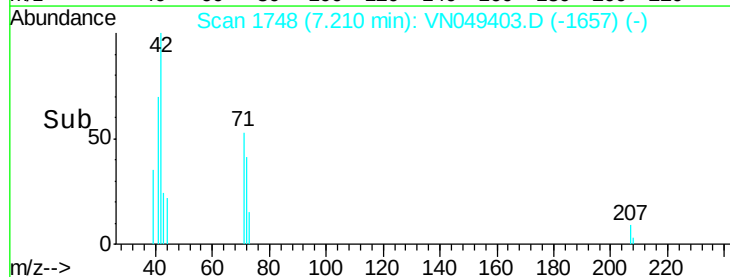
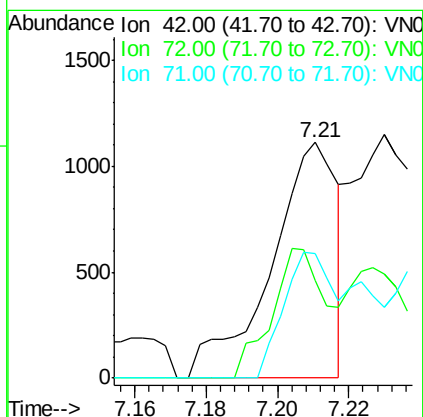
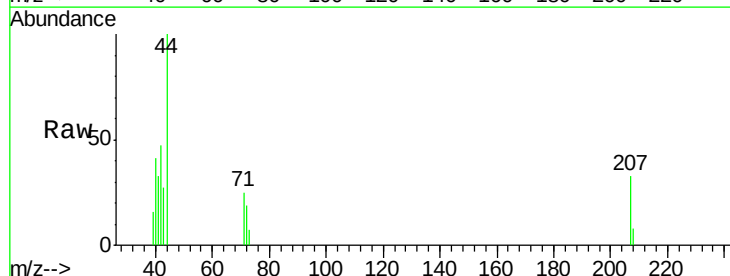
Instrument :
MSVOA_N
ClientSampled :

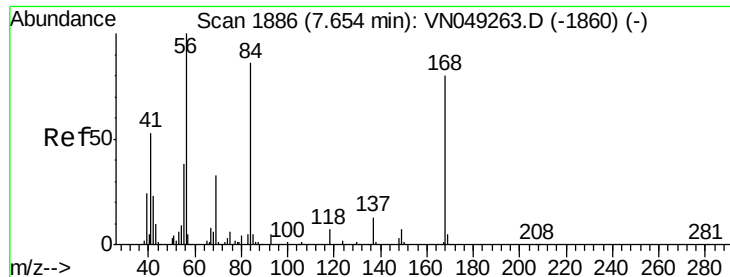
Tot Ion: 43 Resp: 7599
Ion Ratio Lower Upper
43 100
72 23.0 20.2 30.2



#29
Tetrahydrofuran
Concen: 0.44 ug/l
RT: 7.21 min Scan# 1748
Delta R.T. -0.01 min
Lab File: VN049403.D
Acq: 19 Jun 2018 22:56

Tgt Ion: 42 Resp: 1423
Ion Ratio Lower Upper
42 100
72 45.3 32.2 48.4
71 39.9 30.5 45.7

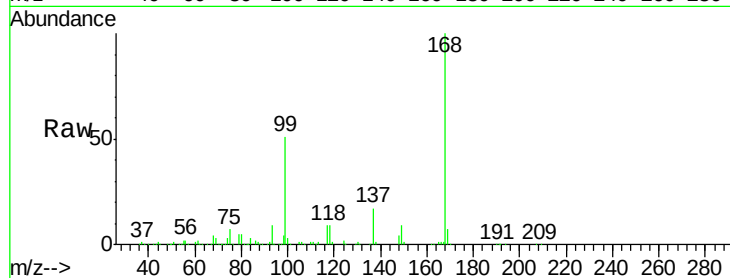




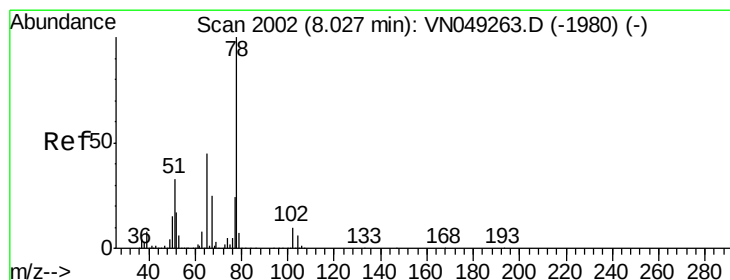
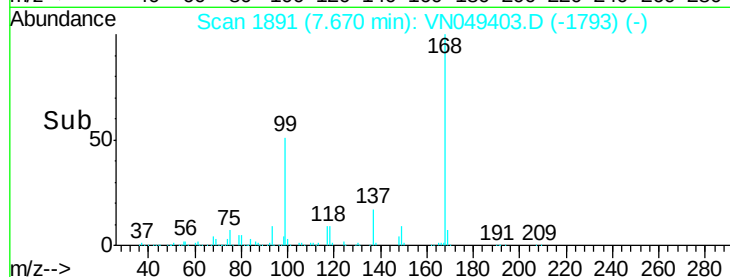
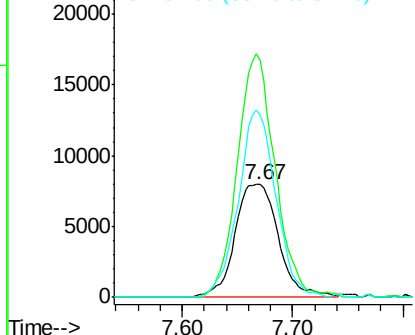
#31
Cyclohexane
Concen: 0.79 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.02 min
Lab File: VN049403.D
Acq: 19 Jun 2018 22:56

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 21957
Ion Ratio Lower Upper
56 100
69 210.3 25.0 37.4#
84 161.6 64.6 96.8#

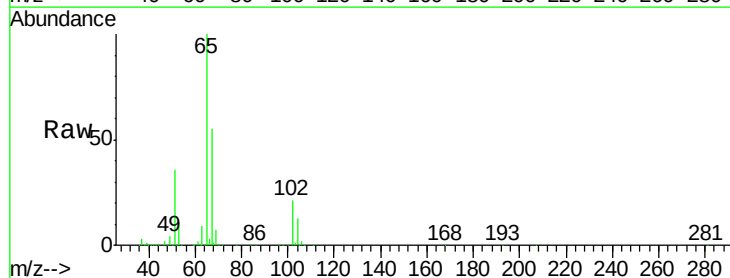


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

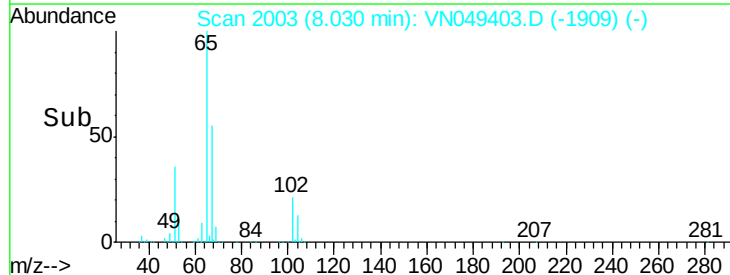
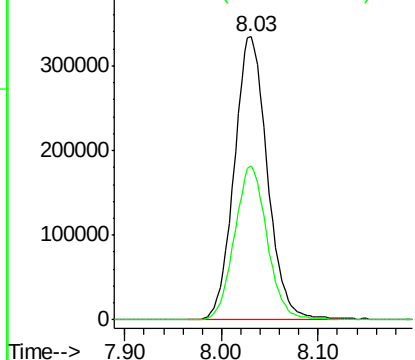


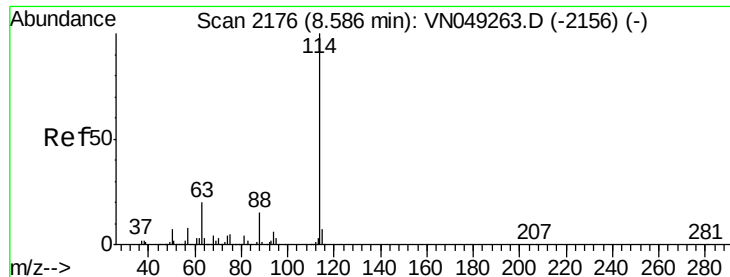
#33
1,2-Dichloroethane-d4
Concen: 51.84 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049403.D
Acq: 19 Jun 2018 22:56

Tgt Ion: 65 Resp: 796990
Ion Ratio Lower Upper
65 100
67 53.5 0.0 103.8



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

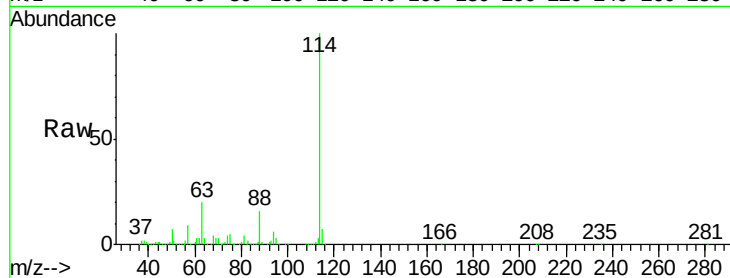




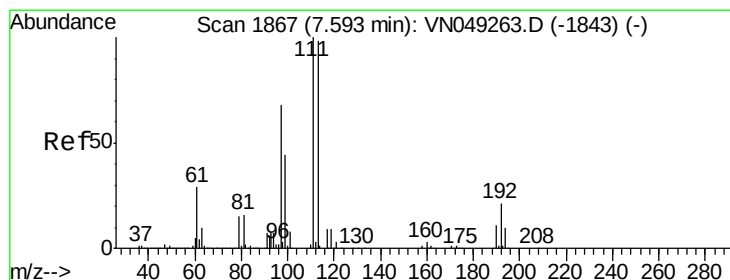
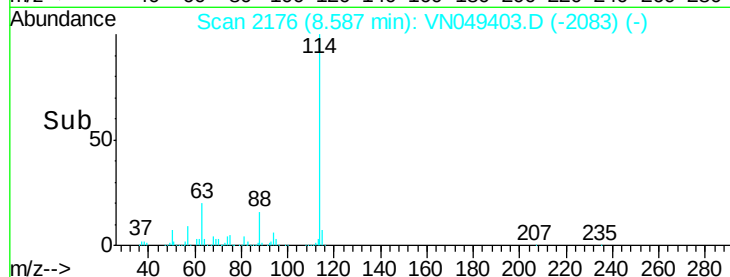
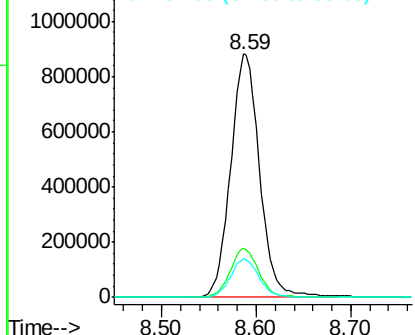
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN049403.D
 Acq: 19 Jun 2018 22:56

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:114 Resp: 1871380
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 44.4
 88 15.7 0.0 31.4

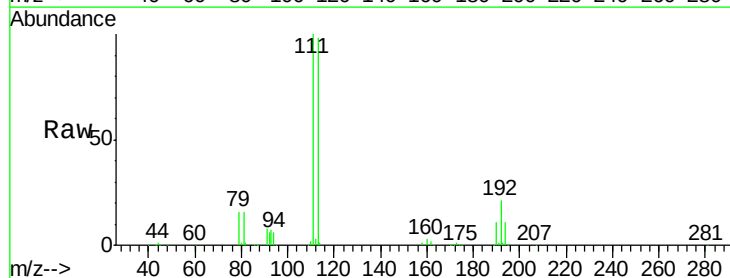


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

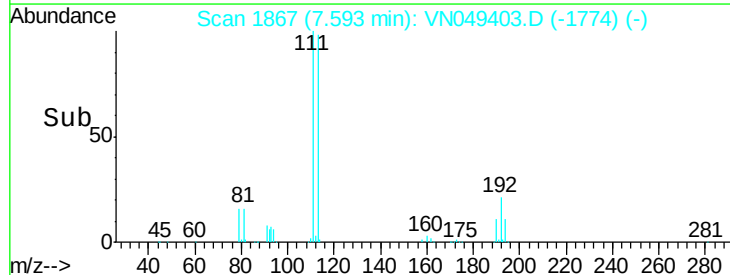
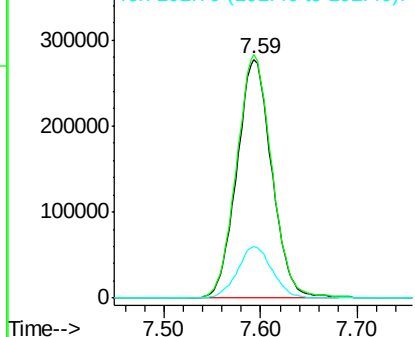


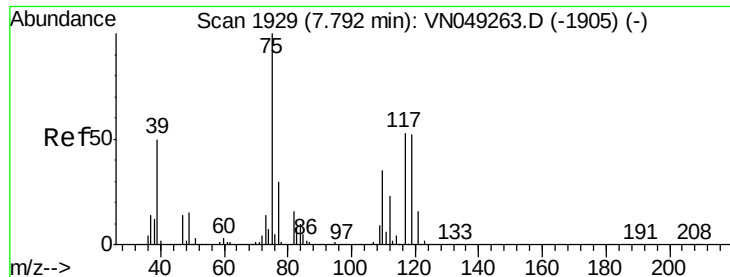
#35
 Dibromofluoromethane
 Concen: 45.96 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049403.D
 Acq: 19 Jun 2018 22:56

Tgt Ion:113 Resp: 695798
 Ion Ratio Lower Upper
 113 100
 111 103.3 82.4 123.6
 192 21.5 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

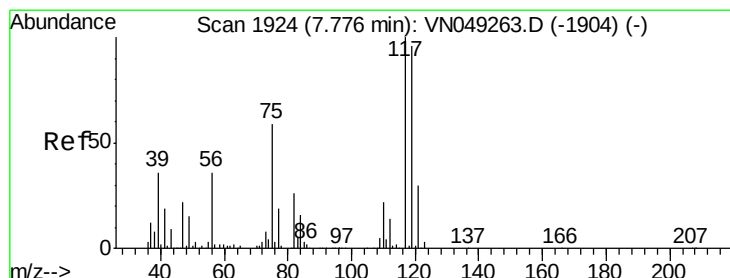
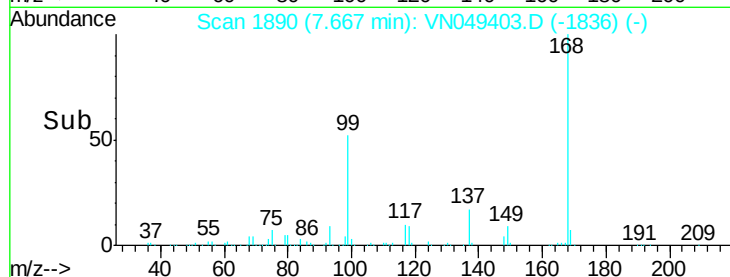
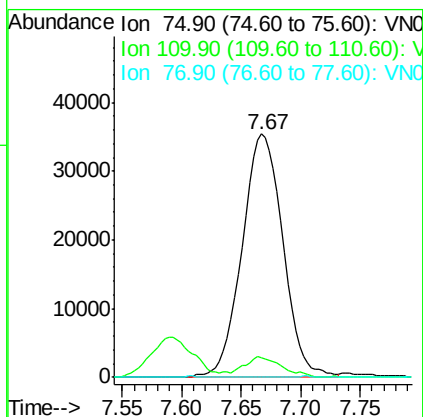
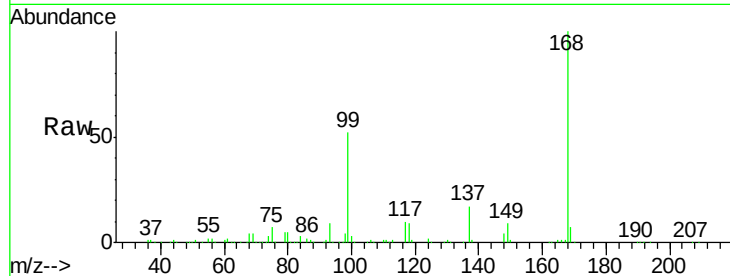




#36
 1,1-Dichloropropene
 Concen: 3.93 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049403.D
 Acq: 19 Jun 2018 22:56

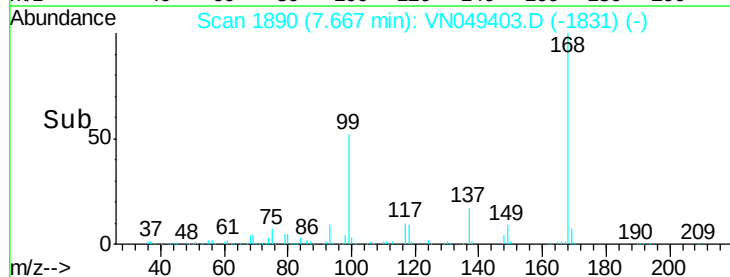
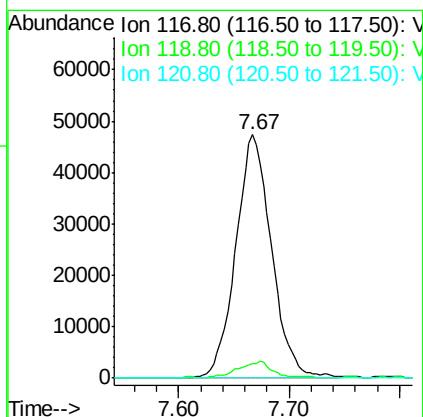
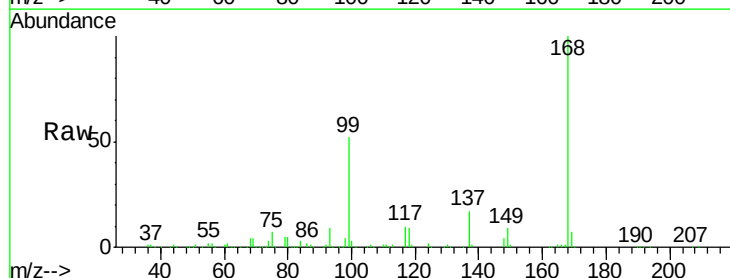
Instrument :
 MSVOA_N
 ClientSampleId :

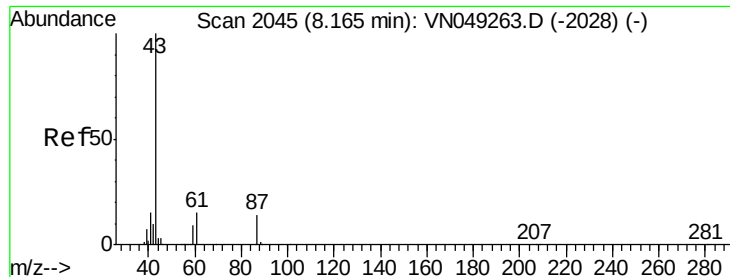
Tot Ion: 75 Resp: 84259
 Ion Ratio Lower Upper
 75 100
 110 7.7 17.0 50.9#
 77 0.0 24.4 36.6#



#38
 Carbon Tetrachloride
 Concen: 4.79 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN049403.D
 Acq: 19 Jun 2018 22:56

Tgt Ion: 117 Resp: 106346
 Ion Ratio Lower Upper
 117 100
 119 5.8 75.6 113.4#
 121 0.0 24.7 37.1#





#43

Isopropyl Acetate

Concen: 20.37 ug/l

RT: 8.23 min Scan# 2066

Delta R.T. 0.07 min

Lab File: VN049403.D

Acq: 19 Jun 2018 22:56

Instrument :

MSVOA_N

ClientSampleId :

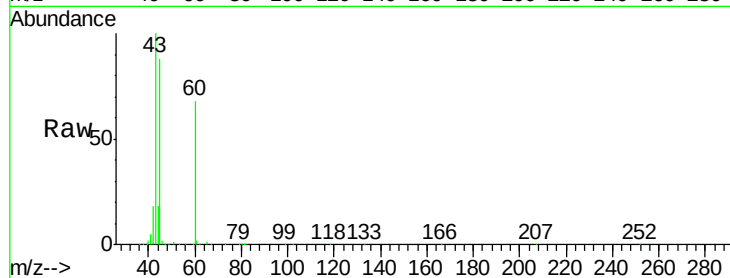
Tot Ion: 43 Resp: 453745

Ion Ratio Lower Upper

43 100

61 1.3 14.2 21.4#

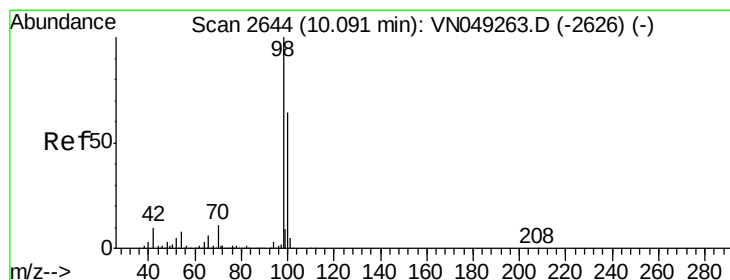
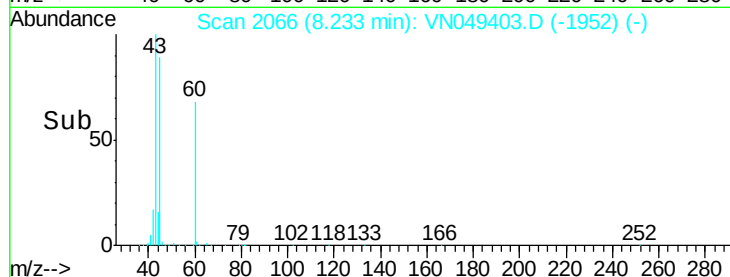
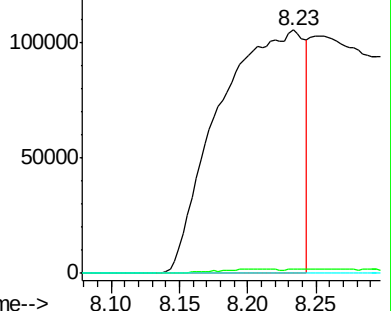
87 0.0 9.4 14.0#



Abundance Ion 43.00 (42.70 to 43.70): VN049403.D (-2066) (-)

Ion 61.00 (60.70 to 61.70): VN049403.D (-2066) (-)

Ion 87.00 (86.70 to 87.70): VN049403.D (-2066) (-)



#50

Toluene-d8

Concen: 43.95 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN049403.D

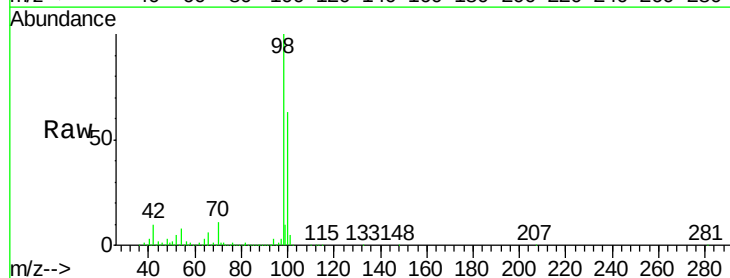
Acq: 19 Jun 2018 22:56

Tgt Ion: 98 Resp: 2533400

Ion Ratio Lower Upper

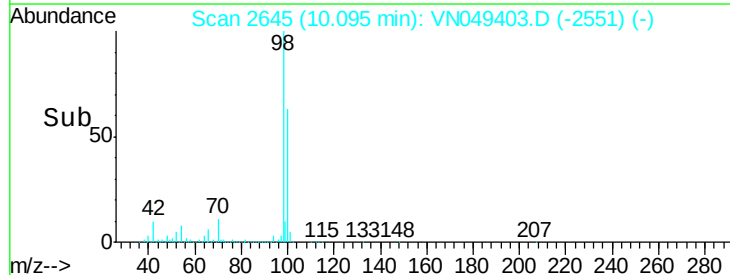
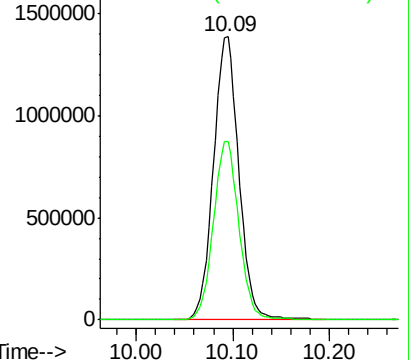
98 100

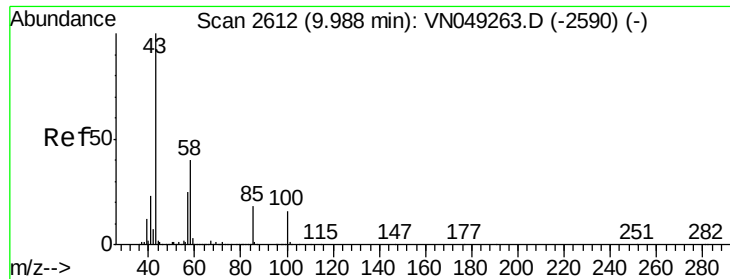
100 63.3 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VN049403.D (-2645) (-)

Ion 100.00 (99.70 to 100.70): VN049403.D (-2645) (-)

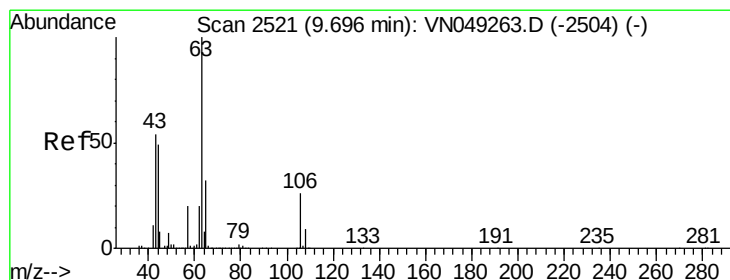
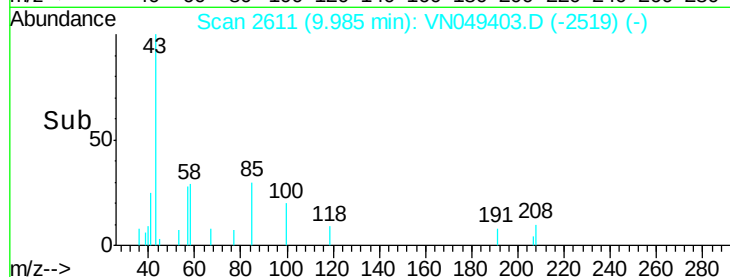
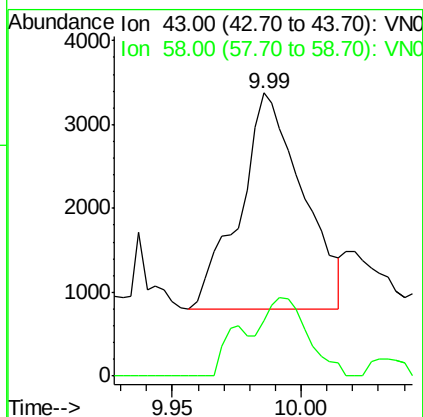
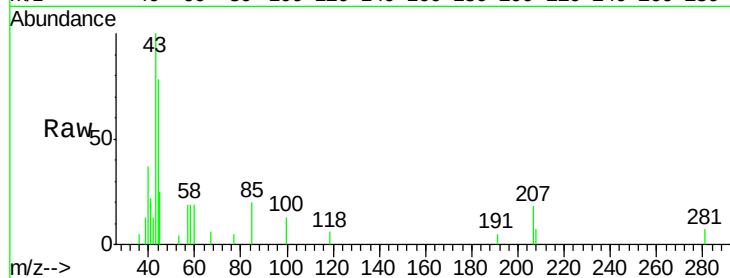




#51
 4-Methyl-2-Pentanone
 Concen: 0.38 ug/l
 RT: 9.99 min Scan# 2611
 Delta R.T. -0.00 min
 Lab File: VN049403.D
 Acq: 19 Jun 2018 22:56

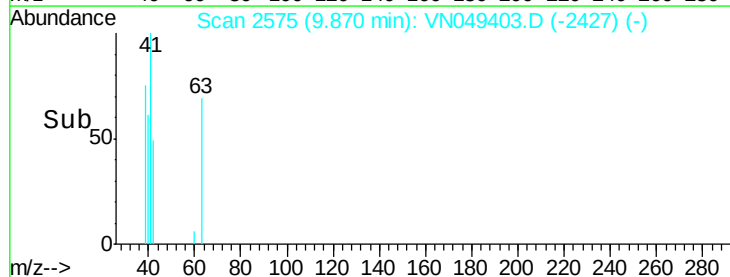
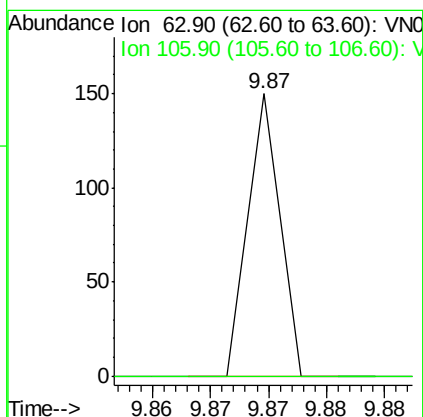
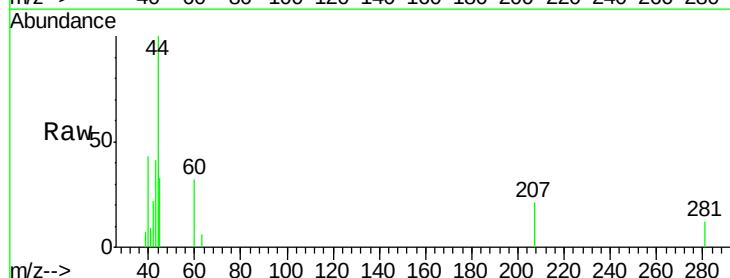
Instrument :
 MSVOA_N
 ClientSampled :

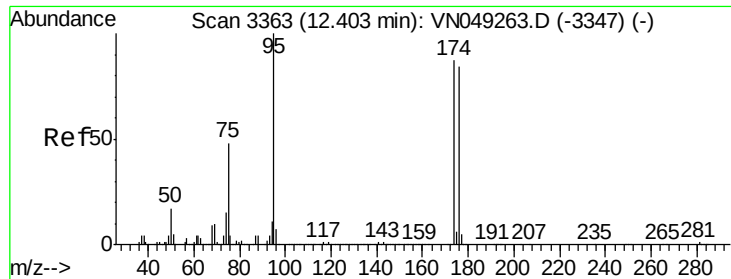
Tot Ion: 43 Resp: 4402
 Ion Ratio Lower Upper
 43 100
 58 24.8 29.0 43.6#



#58
 2-Chloroethyl Vinyl ether
 Concen: 14.33 ug/l
 RT: 9.87 min Scan# 2575
 Delta R.T. 0.17 min
 Lab File: VN049403.D
 Acq: 19 Jun 2018 22:56

Tgt Ion: 63 Resp: 29
 Ion Ratio Lower Upper
 63 100
 106 0.0 19.4 29.2#

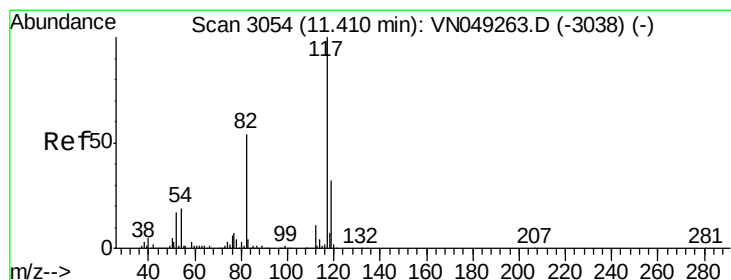
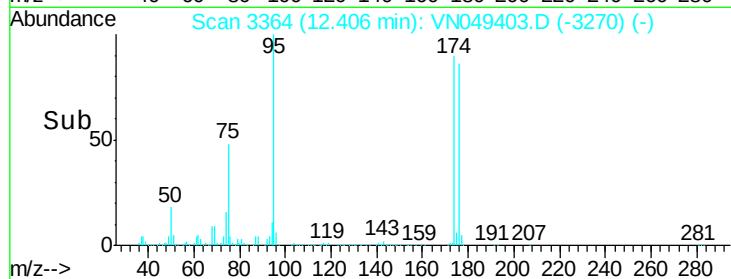
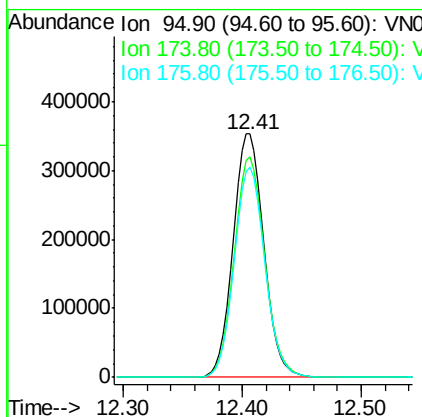
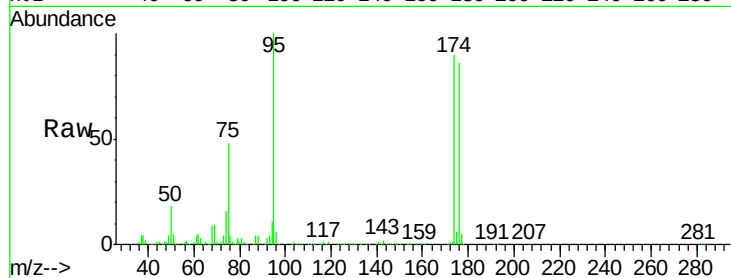




#62
4-Bromofluorobenzene
Concen: 33.17 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN049403.D
Acq: 19 Jun 2018 22:56

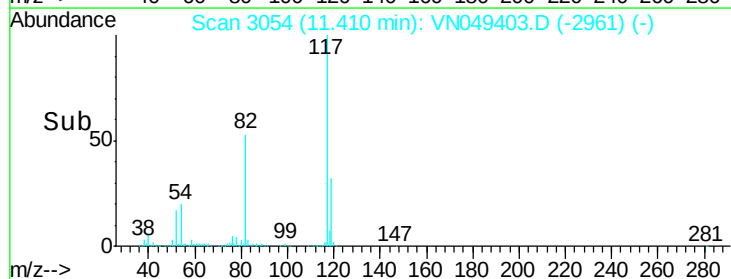
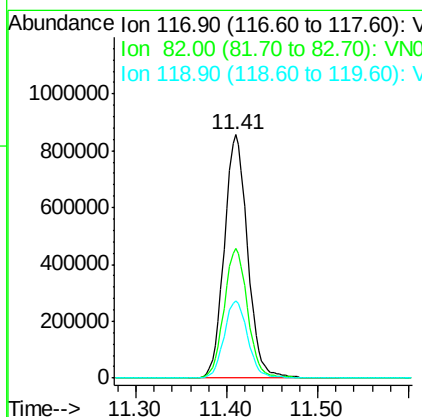
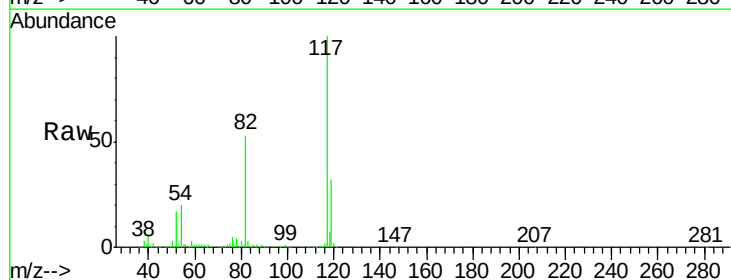
Instrument :
MSVOA_N
ClientSampleId :

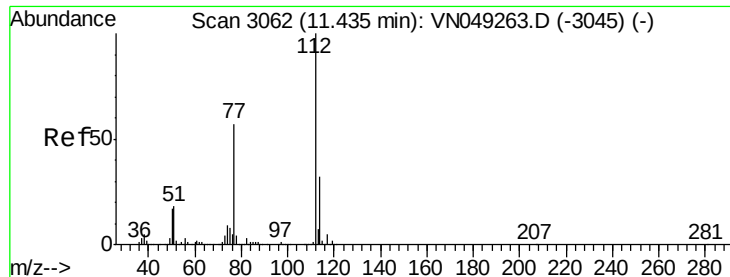
Tot Ion: 95 Resp: 632199
Ion Ratio Lower Upper
95 100
174 90.3 0.0 165.6
176 86.1 0.0 157.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049403.D
Acq: 19 Jun 2018 22:56

Tgt Ion: 117 Resp: 1525220
Ion Ratio Lower Upper
117 100
82 53.2 45.9 68.9
119 31.9 25.5 38.3





#65

Chlorobenzene

Concen: 0.54 ug/l

RT: 11.43 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VN049403.D

Acq: 19 Jun 2018 22:56

Instrument :

MSVOA_N

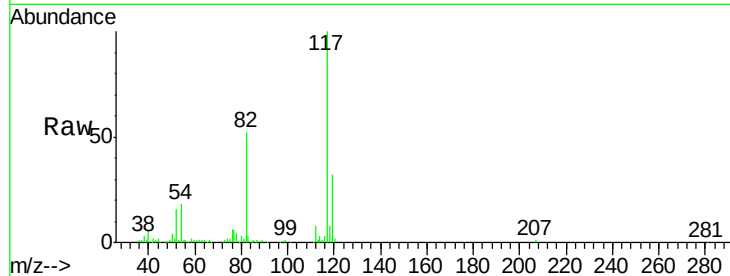
ClientSampleId :

Tot Ion:112 Resp: 21266

Ion Ratio Lower Upper

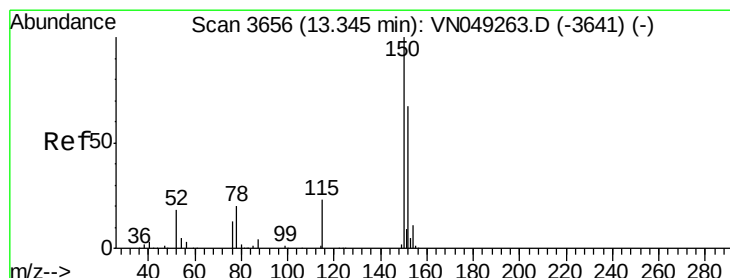
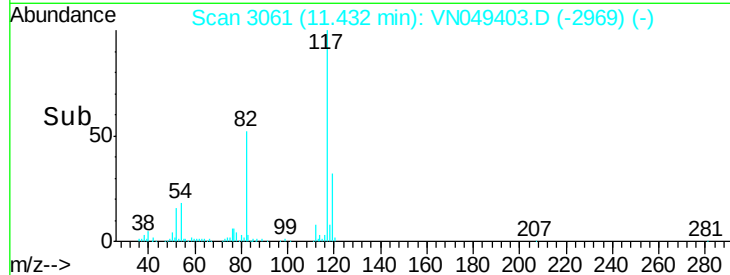
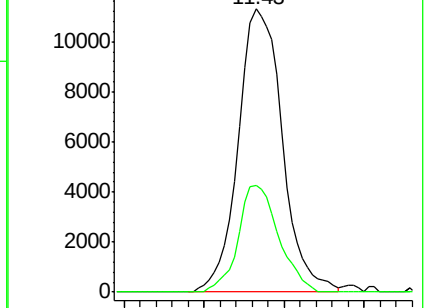
112 100

114 37.8 26.2 39.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): 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: VN049403.D

Acq: 19 Jun 2018 22:56

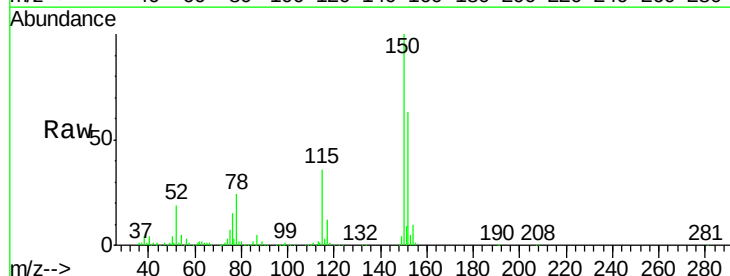
Tgt Ion:152 Resp: 425556

Ion Ratio Lower Upper

152 100

115 56.5 28.7 86.1

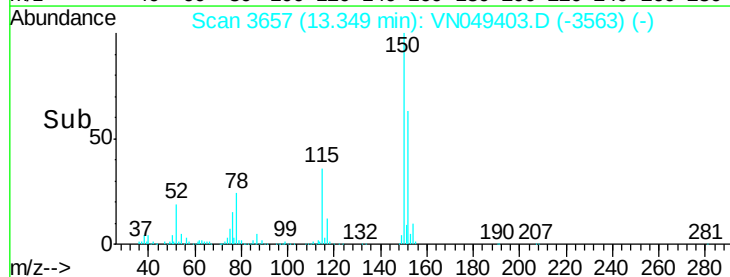
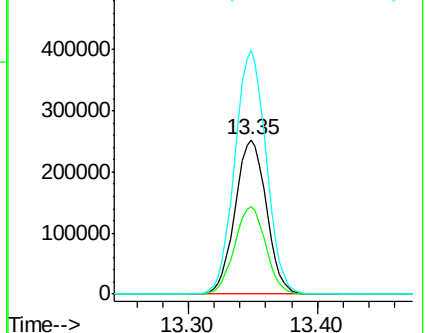
150 158.6 0.0 351.0

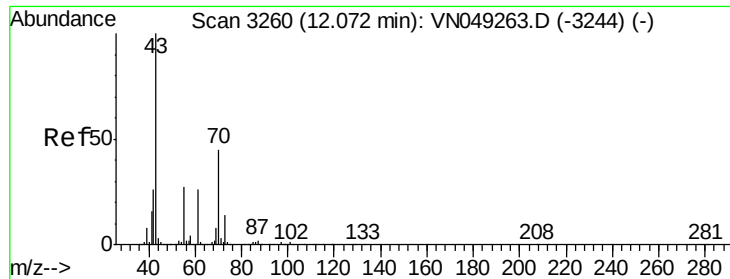


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.31 ug/l

RT: 12.05 min Scan# 3253

Delta R.T. -0.02 min

Lab File: VN049403.D

Acq: 19 Jun 2018 22:56

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2871

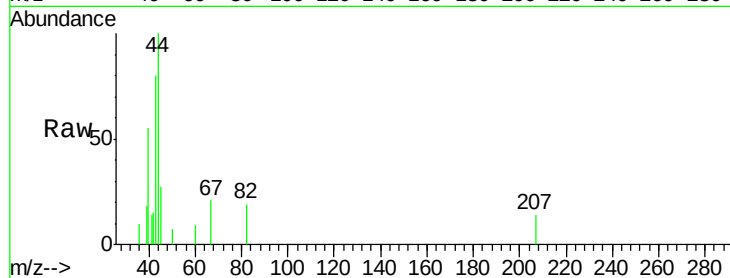
Ion Ratio Lower Upper

43 100

70 0.0 30.3 45.5#

55 2.1 19.4 29.2#

61 0.0 17.8 26.6#

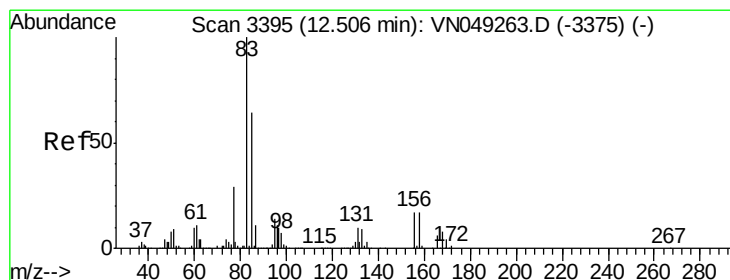
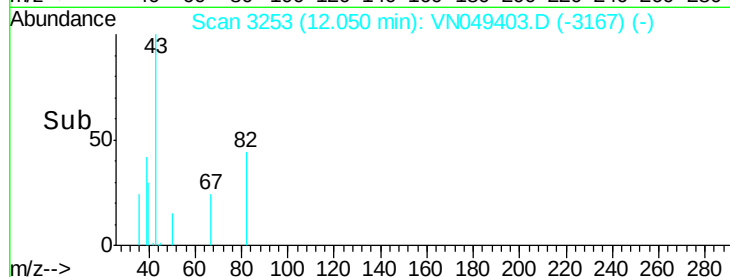
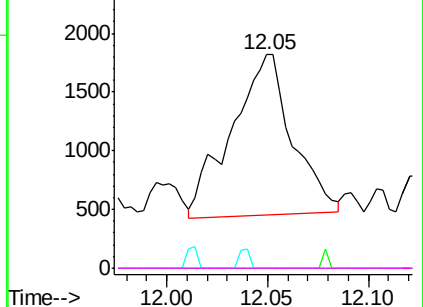


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 12.43 min Scan# 3372

Delta R.T. -0.07 min

Lab File: VN049403.D

Acq: 19 Jun 2018 22:56

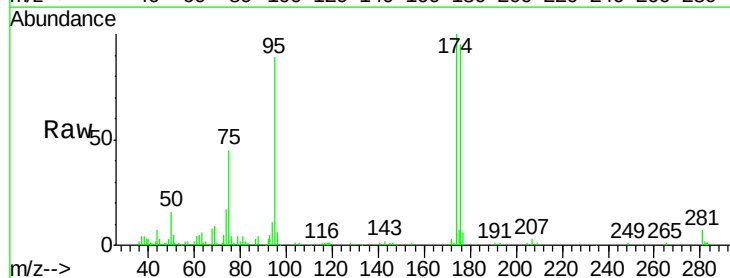
Tgt Ion: 83 Resp: 167

Ion Ratio Lower Upper

83 100

131 377.2 5.0 15.0#

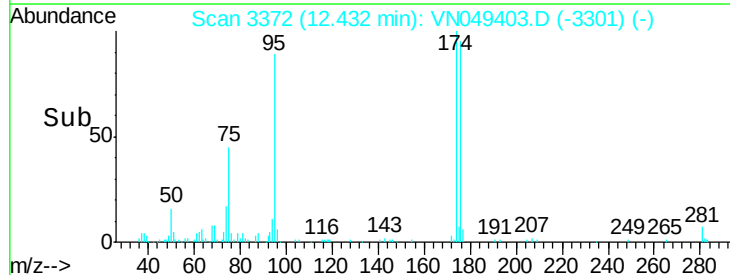
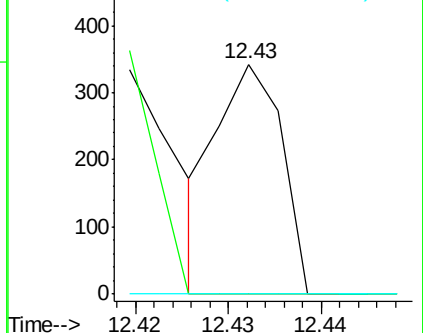
85 0.0 32.0 96.0#

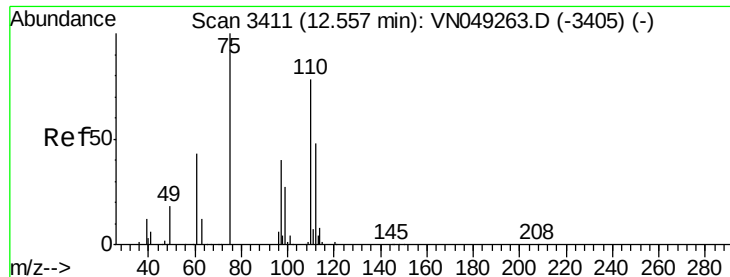


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0





#76

1,2,3-Trichloropropane

Concen: 42.09 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049403.D

Acq: 19 Jun 2018 22:56

Instrument :

MSVOA_N

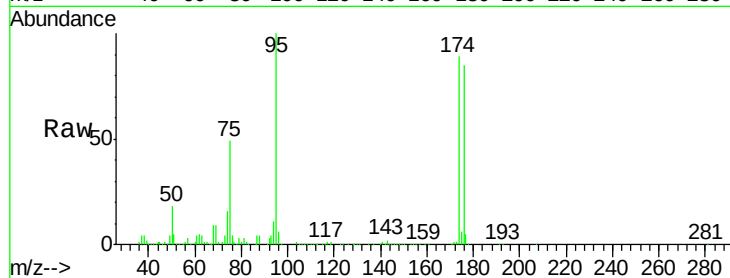
ClientSampleId :

Tot Ion: 75 Resp: 305631

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

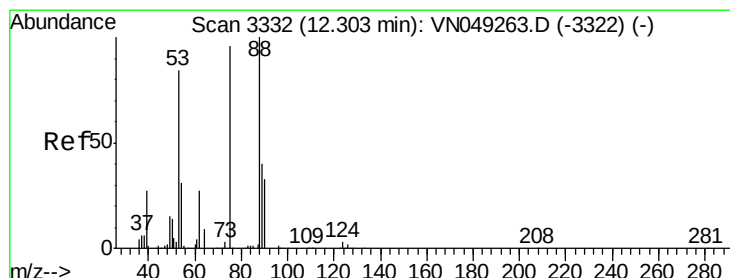
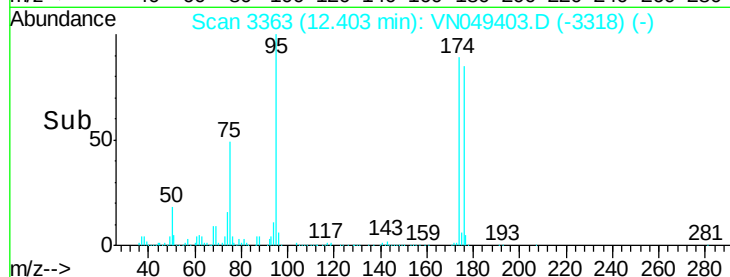
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 133.03 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049403.D

Acq: 19 Jun 2018 22:56

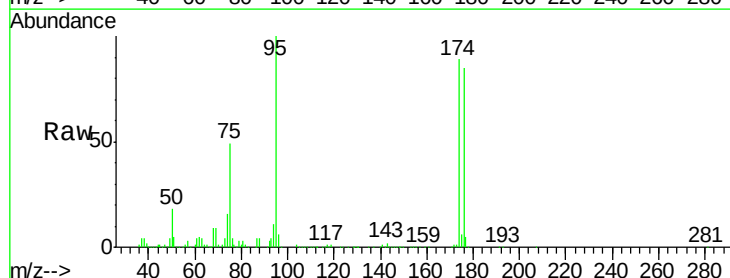
Tgt Ion: 75 Resp: 305631

Ion Ratio Lower Upper

75 100

53 0.4 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

12.40

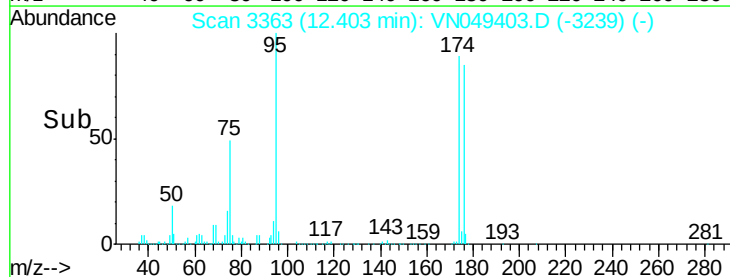
150000

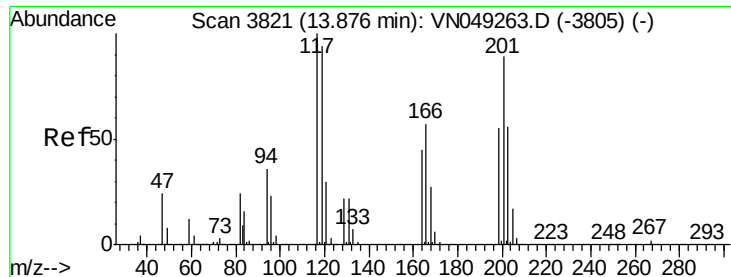
100000

50000

0

Time--> 12.30 12.40 12.50





#90

Hexachloroethane

Concen: Below Cal

RT: 13.62 min Scan# 3742

Delta R.T. -0.25 min

Lab File: VN049403.D

Acq: 19 Jun 2018 22:56

Instrument :

MSVOA_N

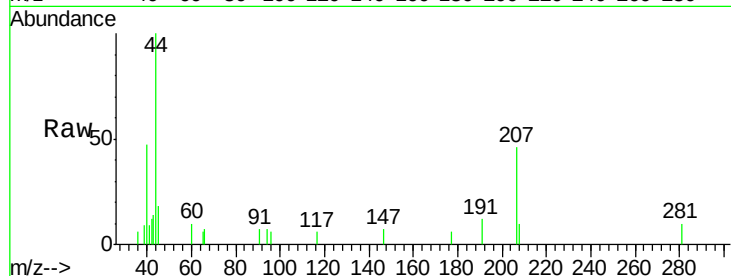
ClientSampled :

Tot Ion:117 Resp: 31

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

13.62

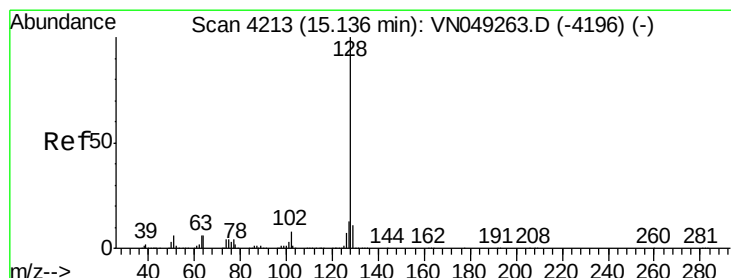
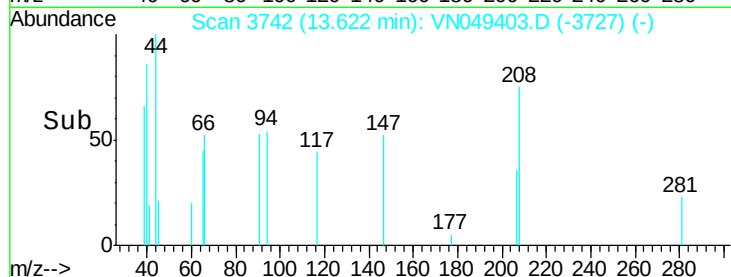
150

100

50

0

Time--> 13.61 13.62 13.63



#95

Naphthalene

Concen: 2.11 ug/l

RT: 15.14 min Scan# 4215

Delta R.T. 0.01 min

Lab File: VN049403.D

Acq: 19 Jun 2018 22:56

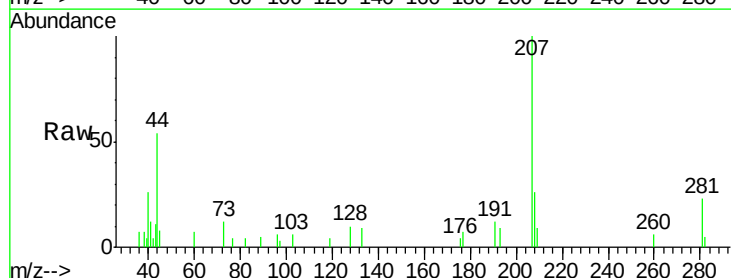
Tgt Ion:128 Resp: 325

Ion Ratio Lower Upper

128 100

127 0.0 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

15.14

600

500

400

300

200

100

0

Time--> 15.14 15.16

