

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081718\
 Data File : VN050741.D
 Acq On : 18 Aug 2018 00:51
 Operator : MD\SY
 Sample : VN0817WBL03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 18 04:26:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 08:07:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	585972	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	950613	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	808414	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	259281	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	401566	54.37	ug/l	0.00
Spiked Amount			Recovery	=	108.74%	
35) Dibromofluoromethane	7.59	113	375355	49.46	ug/l	0.00
Spiked Amount			Recovery	=	98.92%	
50) Toluene-d8	10.09	98	1328484	46.51	ug/l	0.00
Spiked Amount			Recovery	=	93.02%	
62) 4-Bromofluorobenzene	12.40	95	338988	35.92	ug/l	0.00
Spiked Amount			Recovery	=	71.84%	

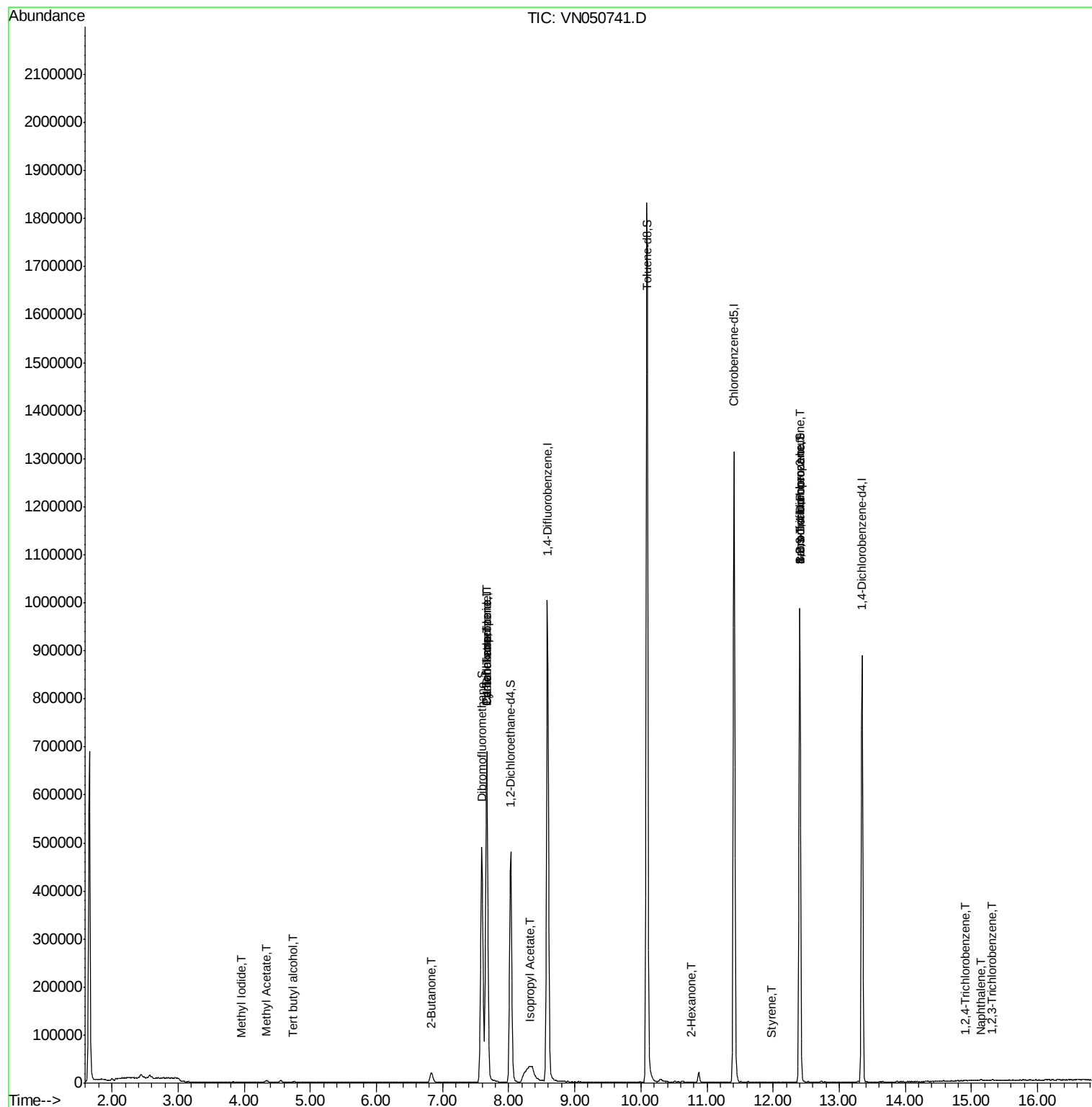
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2693	Below Cal		100
5) Bromomethane	2.57	94	3687	Below Cal		98
6) Chloroethane	2.70	64	72	Below Cal	#	43
10) Methyl Iodide	3.94	142	1034	7.13	ug/l #	58
11) Tert butyl alcohol	4.74	59	834	2.07	ug/l #	72
16) Acetone	3.82	43	983	Below Cal	#	82
18) Methyl Acetate	4.34	43	6750	0.31	ug/l	97
20) Methylene Chloride	4.54	84	1189	Below Cal	#	92
25) 2-Butanone	6.84	43	1387	0.46	ug/l #	48
31) Cyclohexane	7.66	56	10995	0.64	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	41413	3.91	ug/l #	48
38) Carbon Tetrachloride	7.67	117	53518	4.88	ug/l #	17
43) Isopropyl Acetate	8.31	43	57578	5.28	ug/l #	60
59) 2-Hexanone	10.75	43	1288	0.27	ug/l #	30
70) Styrene	11.98	104	286	0.95	ug/l #	26
71) Bromoform	12.40	173	3431	0.69	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	199	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	159892	37.92	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	159892	137.10	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.92	180	621	2.80	ug/l #	88
95) Naphthalene	15.14	128	2422	4.08	ug/l #	79
96) 1,2,3-Trichlorobenzene	15.32	180	817	2.12	ug/l #	70

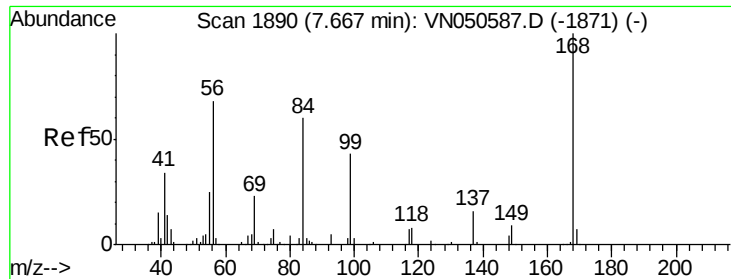
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Aug 14 08:07:08 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: VN050741.D

Acq: 18 Aug 2018 00:51

Instrument :

MSVOA_N

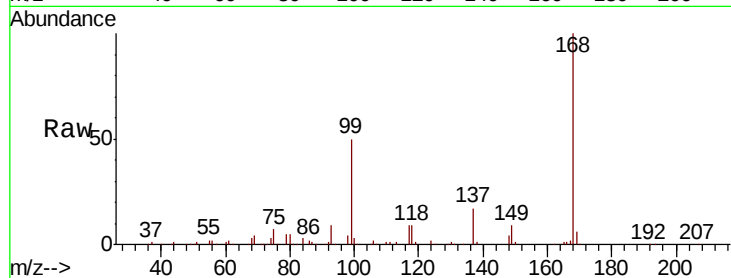
ClientSampleId :

Tot Ion:168 Resp: 585972

Ion Ratio Lower Upper

168 100

99 49.9 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

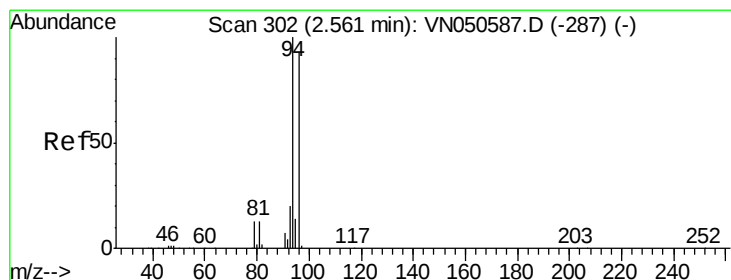
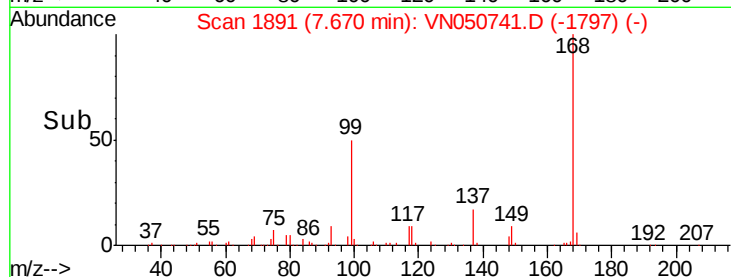
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN050741.D

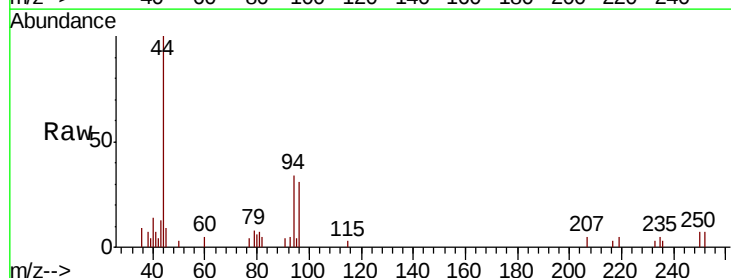
Acq: 18 Aug 2018 00:51

Tgt Ion: 94 Resp: 3687

Ion Ratio Lower Upper

94 100

96 90.8 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.57

2000

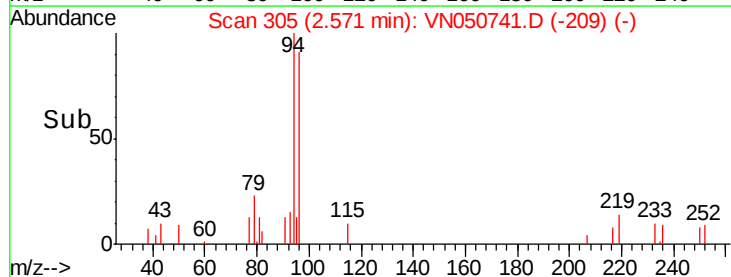
1500

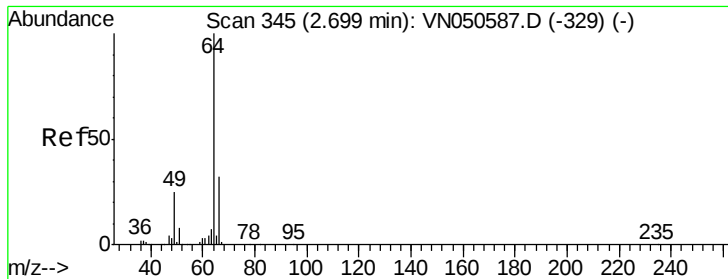
1000

500

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 2.70 min Scan# 344

Delta R.T. -0.00 min

Lab File: VN050741.D

Acq: 18 Aug 2018 00:51

Instrument :

MSVOA_N

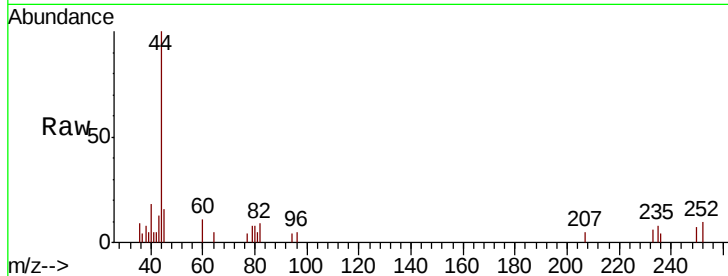
ClientSampled :

Tot Ion: 64 Resp: 72

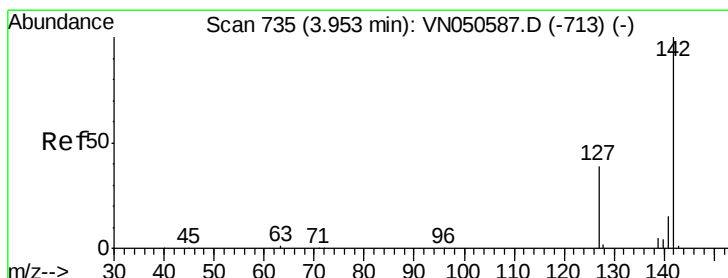
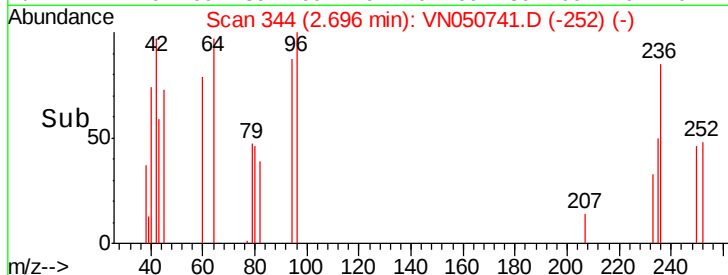
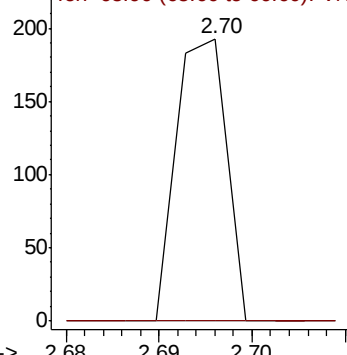
Ion Ratio Lower Upper

64 100

66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN050741.D (-252) (-)



#10

Methyl Iodide

Concen: 7.13 ug/l

RT: 3.94 min Scan# 732

Delta R.T. -0.01 min

Lab File: VN050741.D

Acq: 18 Aug 2018 00:51

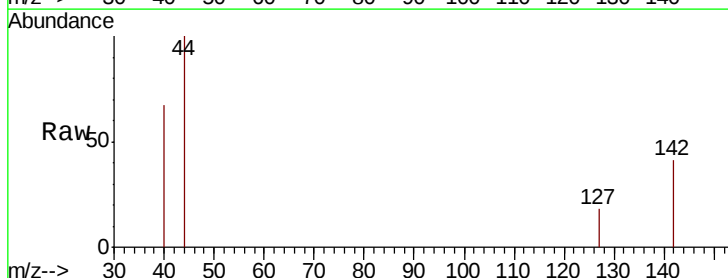
Tgt Ion: 142 Resp: 1034

Ion Ratio Lower Upper

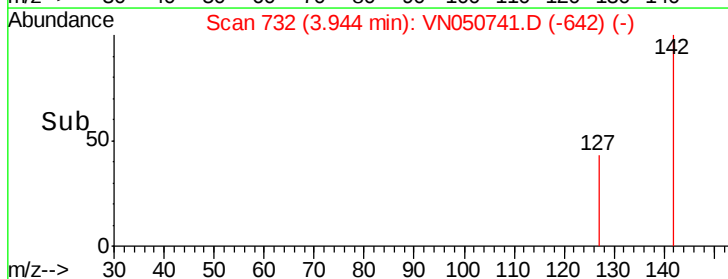
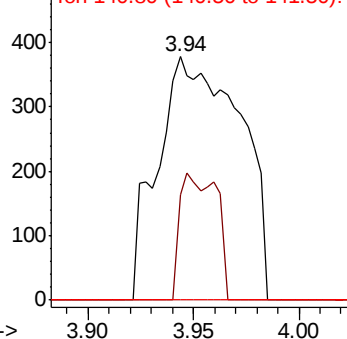
142 100

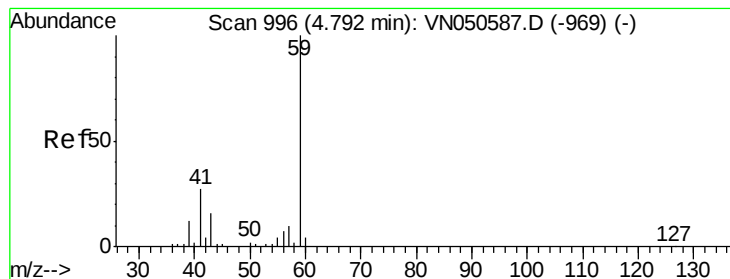
127 13.3 32.6 49.0#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): VN050741.D (-642) (-)



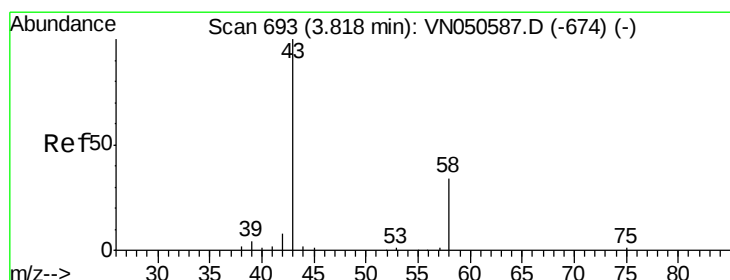
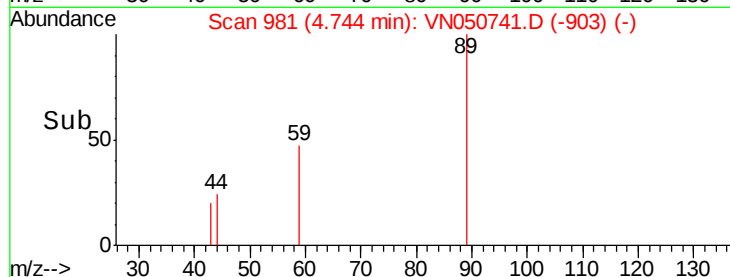
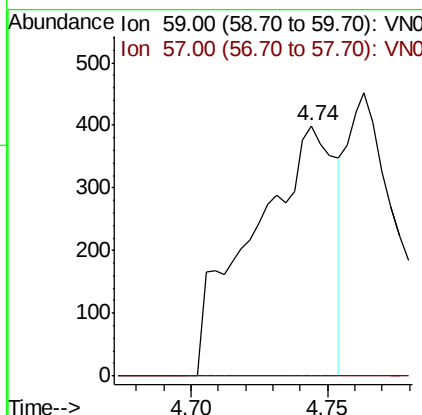
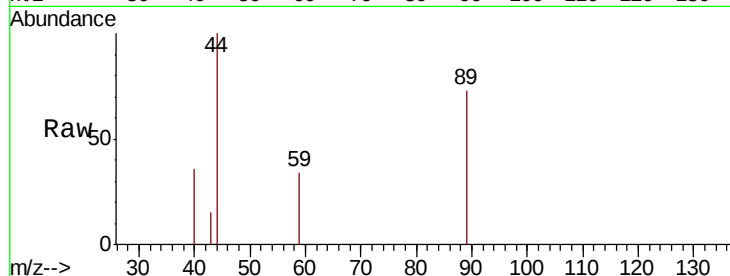


#11

Tert butyl alcohol
 Concen: 2.07 ug/l
 RT: 4.74 min Scan# 981
 Delta R.T. -0.05 min
 Lab File: VN050741.D
 Acq: 18 Aug 2018 00:51

Instrument :
 MSVOA_N
 ClientSampled :

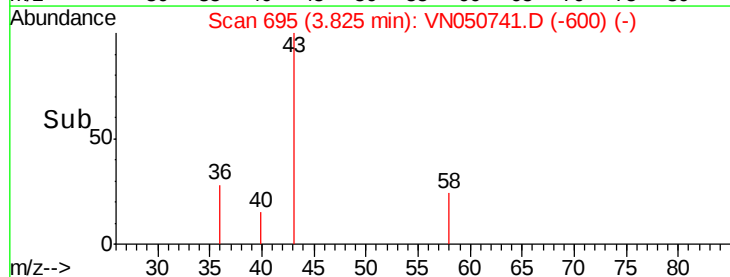
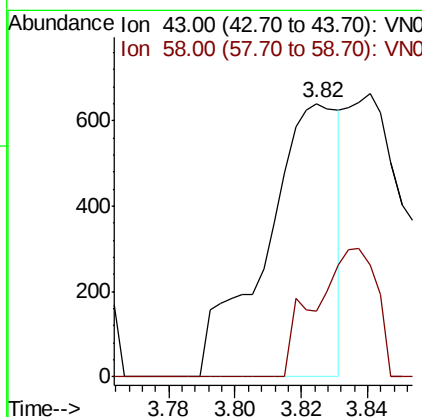
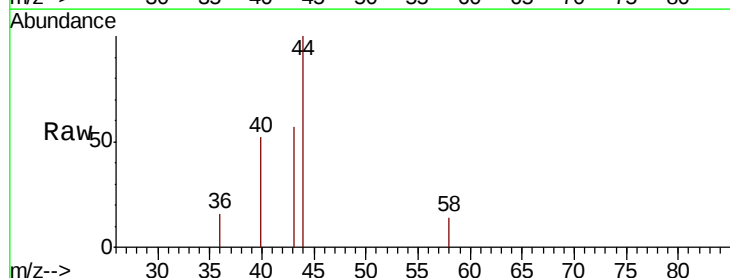
Tot Ion: 59 Resp: 834
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

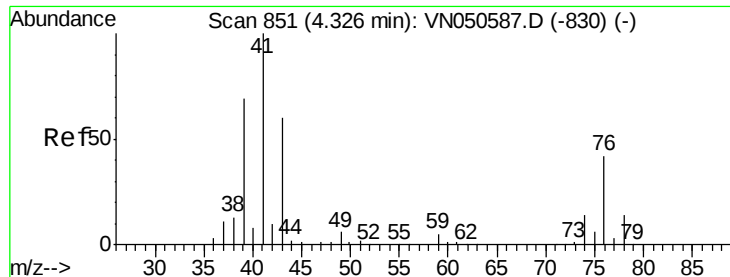


#16

Acetone
 Concen: Below Cal
 RT: 3.82 min Scan# 695
 Delta R.T. 0.01 min
 Lab File: VN050741.D
 Acq: 18 Aug 2018 00:51

Tgt Ion: 43 Resp: 983
 Ion Ratio Lower Upper
 43 100
 58 23.9 27.1 40.7#

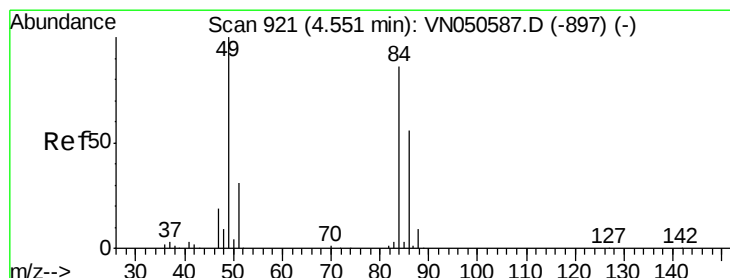
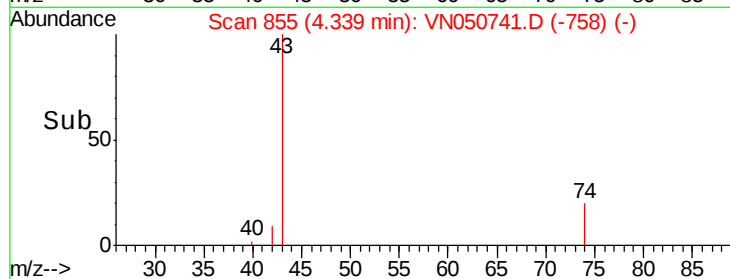
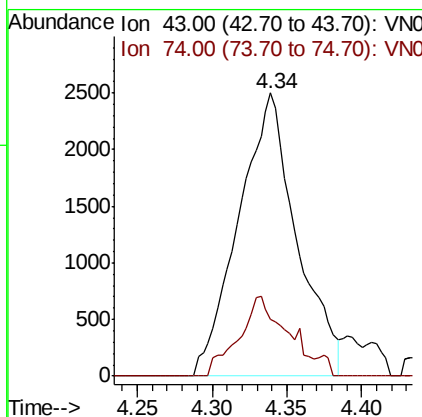
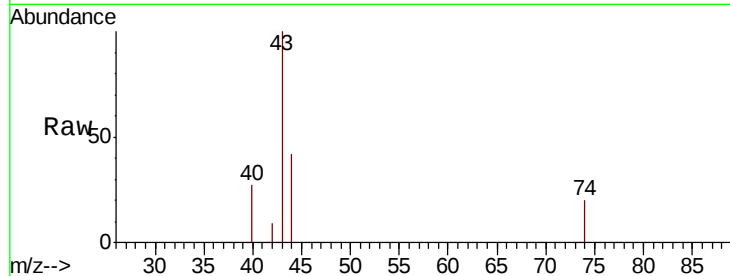




#18
Methyl Acetate
Concen: 0.31 ug/l
RT: 4.34 min Scan# 855
Delta R.T. 0.01 min
Lab File: VN050741.D
Acq: 18 Aug 2018 00:51

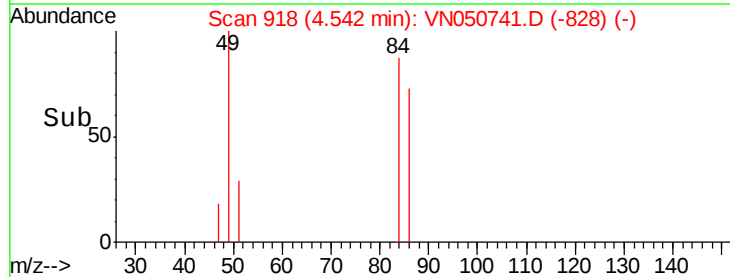
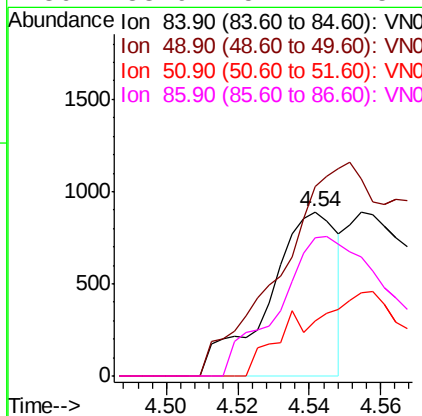
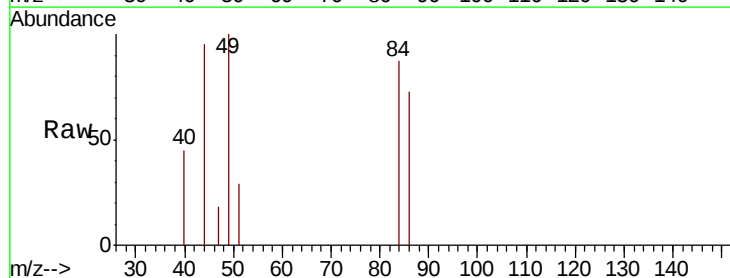
Instrument :
MSVOA_N
ClientSampled :

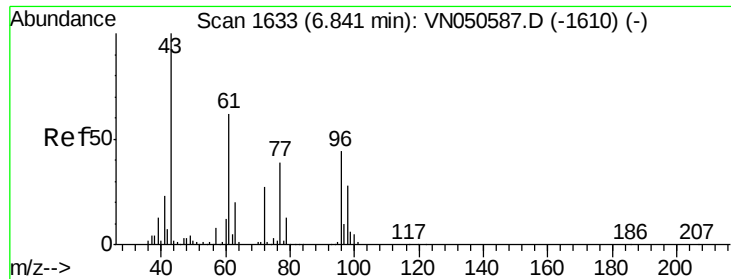
Tot Ion: 43 Resp: 6750
Ion Ratio Lower Upper
43 100
74 23.3 19.7 29.5



#20
Methylene Chloride
Concen: Below Cal
RT: 4.54 min Scan# 918
Delta R.T. -0.01 min
Lab File: VN050741.D
Acq: 18 Aug 2018 00:51

Tgt Ion: 84 Resp: 1189
Ion Ratio Lower Upper
84 100
49 115.5 92.6 138.8
51 33.4 28.6 43.0
86 83.9 52.2 78.2#





#25

2-Butanone

Concen: 0.46 ug/l

RT: 6.84 min Scan# 1633

Delta R.T. -0.00 min

Lab File: VN050741.D

Acq: 18 Aug 2018 00:51

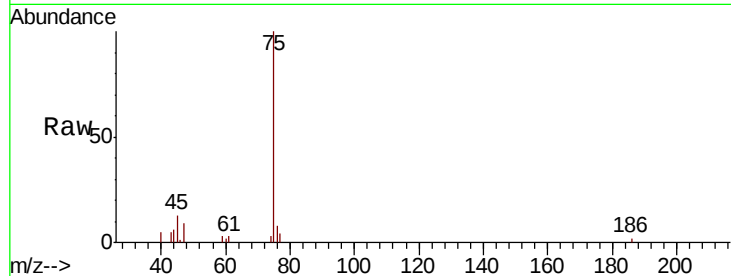
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 1387

Ion Ratio Lower Upper

43 100

72 0.0 21.8 32.6#

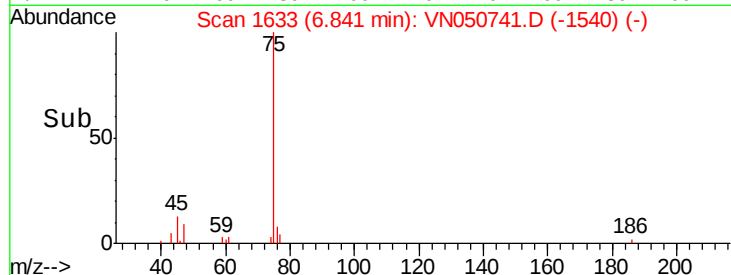


Abundance Ion 43.00 (42.70 to 43.70): VN0

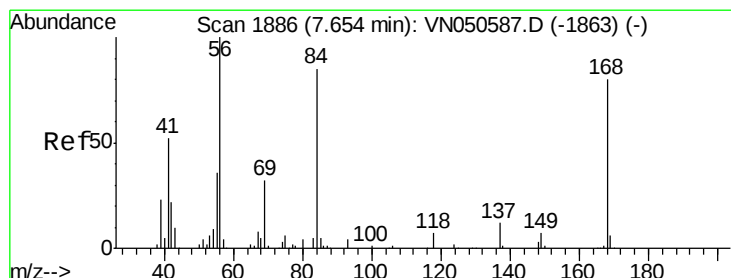
Ion 72.00 (71.70 to 72.70): VN0

6.84

6.80 6.85



Time-->



#31

Cyclohexane

Concen: 0.64 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. 0.01 min

Lab File: VN050741.D

Acq: 18 Aug 2018 00:51

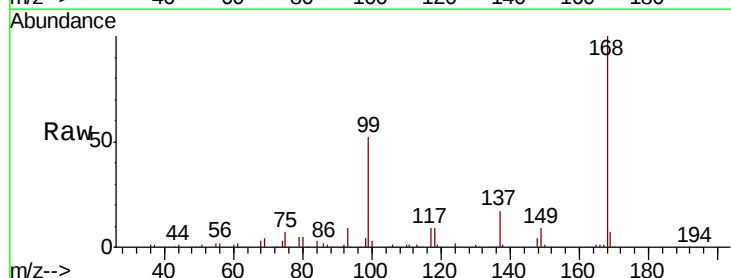
Tgt Ion: 56 Resp: 10995

Ion Ratio Lower Upper

56 100

69 191.5 25.8 38.6#

84 153.0 67.8 101.6#



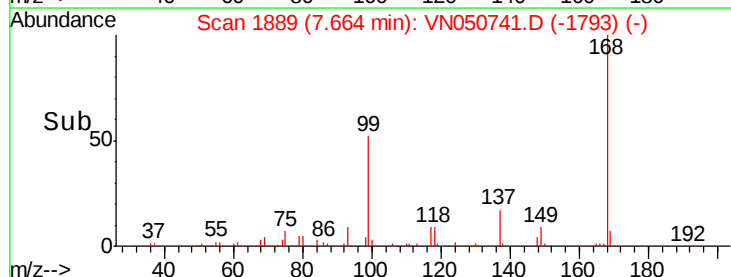
Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

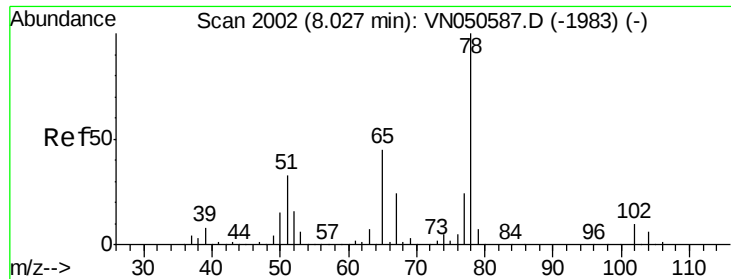
Ion 84.00 (83.70 to 84.70): VN0

7.66

7.60 7.65 7.70 7.75



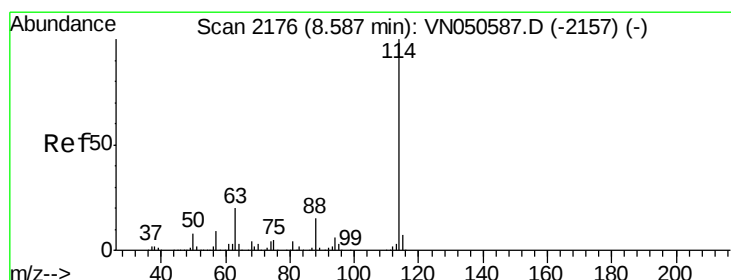
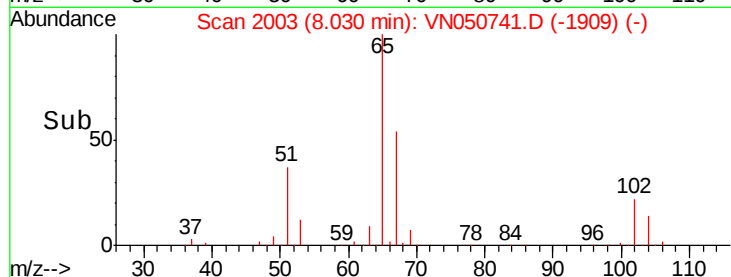
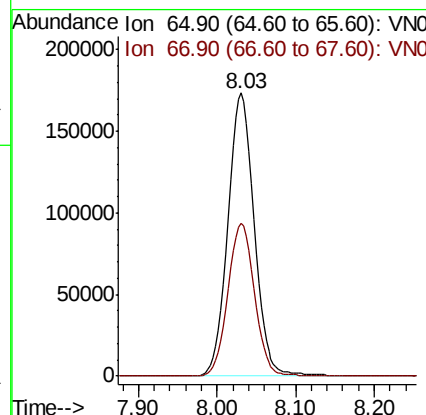
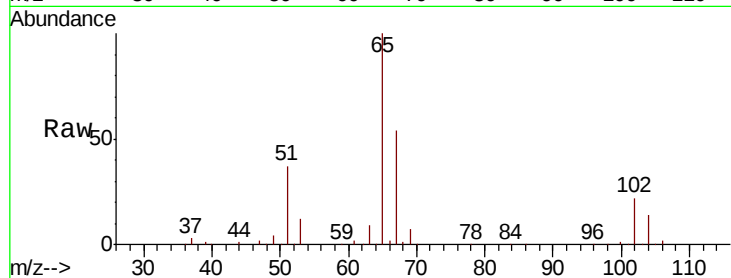
Time-->



#33
 1,2-Dichloroethane-d4
 Concen: 54.37 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050741.D
 Acq: 18 Aug 2018 00:51

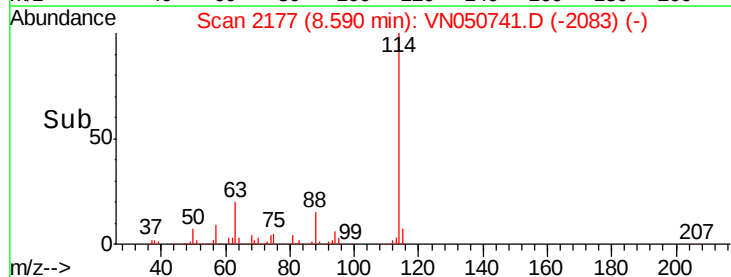
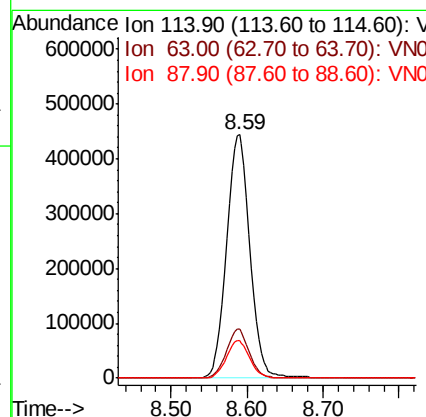
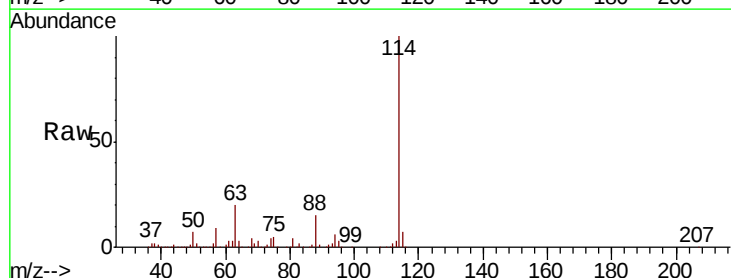
Instrument :
 MSVOA_N
 ClientSampleId :

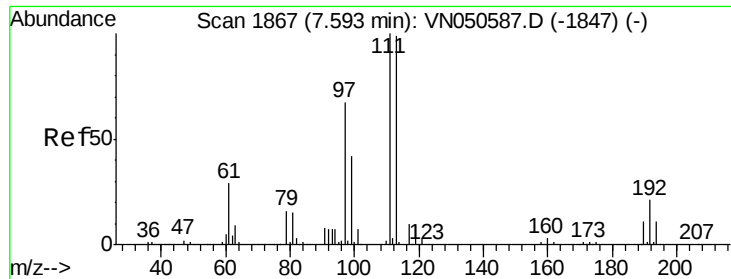
Tot Ion: 65 Resp: 401566
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050741.D
 Acq: 18 Aug 2018 00:51

Tgt Ion: 114 Resp: 950613
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 40.0
 88 15.2 0.0 30.8





#35

Dibromofluoromethane

Concen: 49.46 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VN050741.D

Acq: 18 Aug 2018 00:51

Instrument :
MSVOA_N
ClientSampleId :

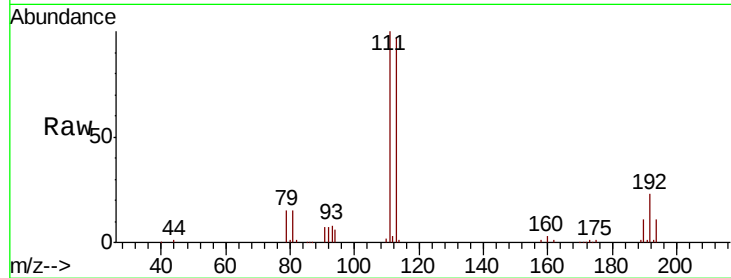
Tot Ion:113 Resp: 375355

Ion Ratio Lower Upper

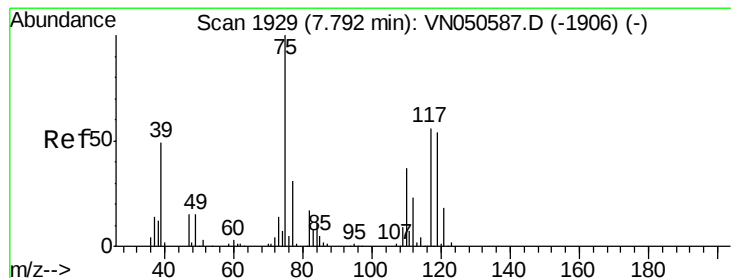
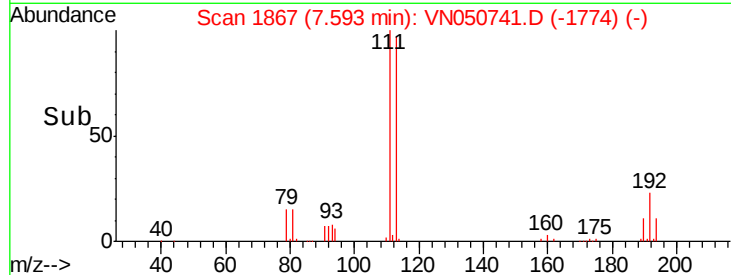
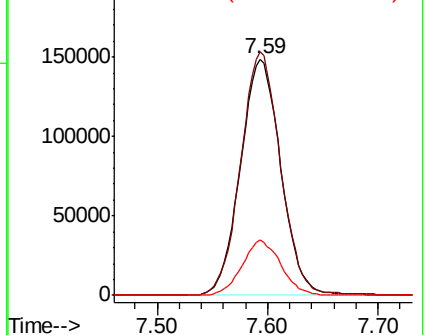
113 100

111 102.5 81.0 121.6

192 22.5 17.6 26.4



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



#36

1,1-Dichloropropene

Concen: 3.91 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN050741.D

Acq: 18 Aug 2018 00:51

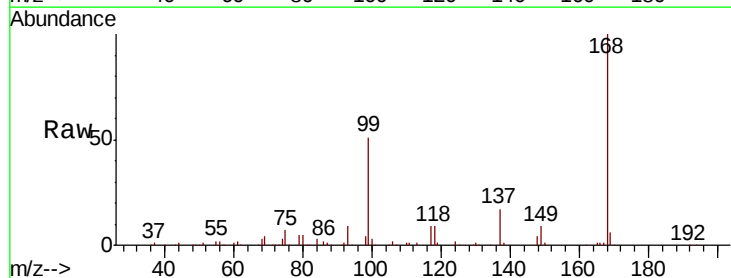
Tgt Ion: 75 Resp: 41413

Ion Ratio Lower Upper

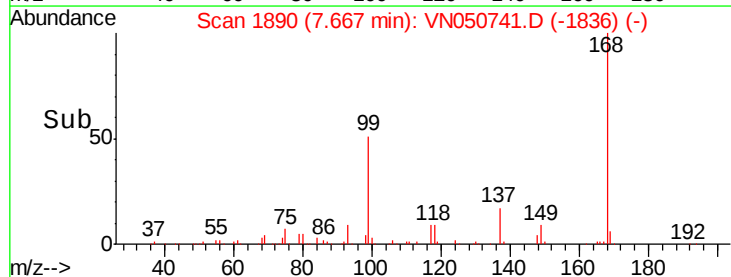
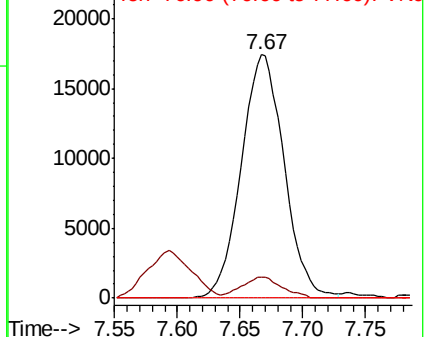
75 100

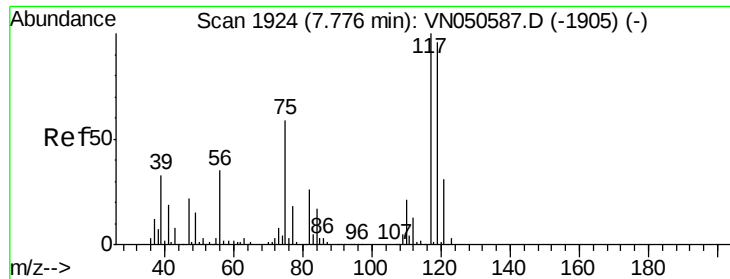
110 8.1 18.3 54.9#

77 0.0 25.0 37.4#



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

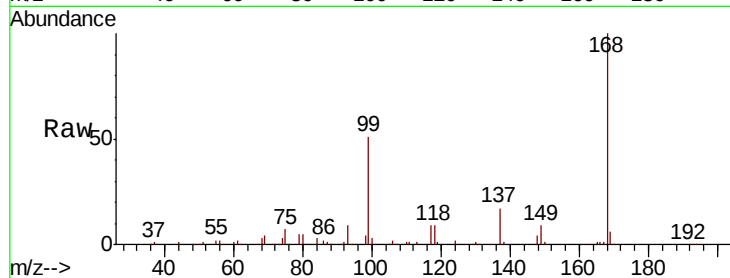




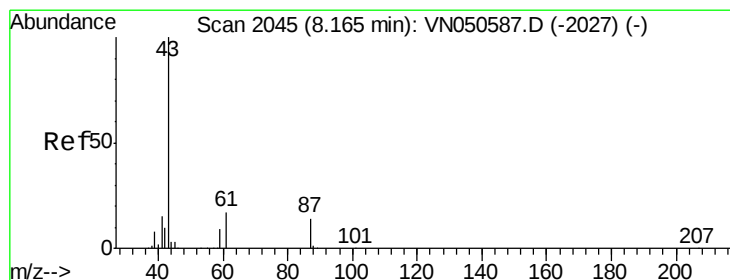
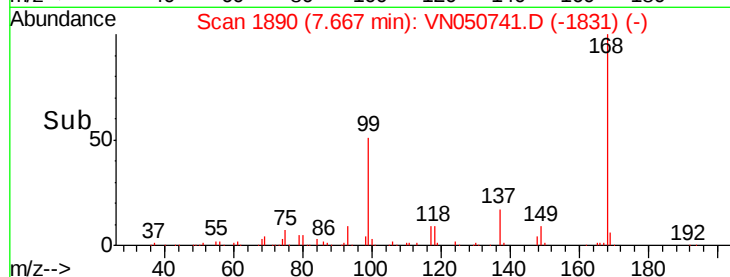
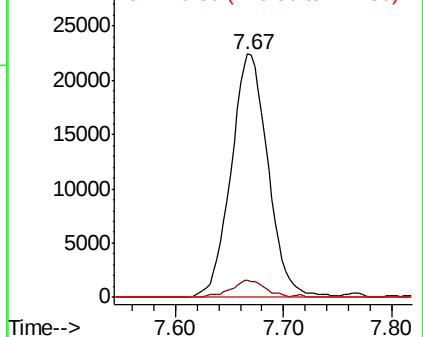
#38
Carbon Tetrachloride
Concen: 4.88 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN050741.D
Acq: 18 Aug 2018 00:51

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 53518
Ion Ratio Lower Upper
117 100
119 7.0 76.6 115.0#
121 0.0 25.0 37.6#

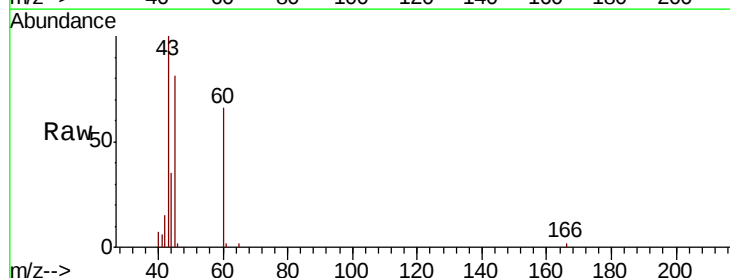


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

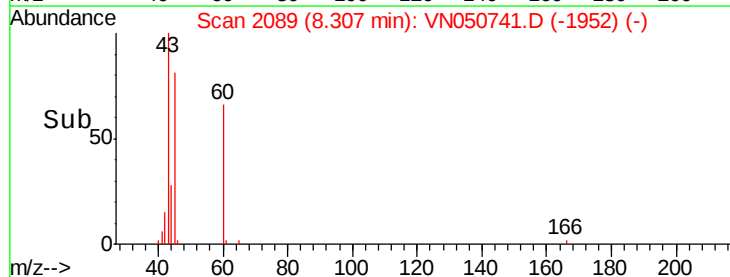
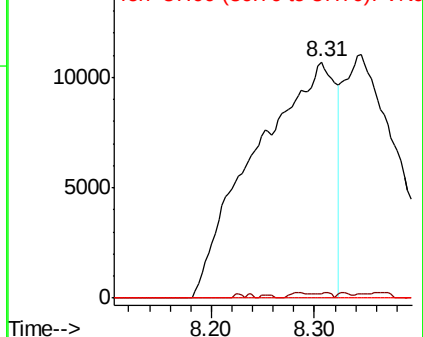


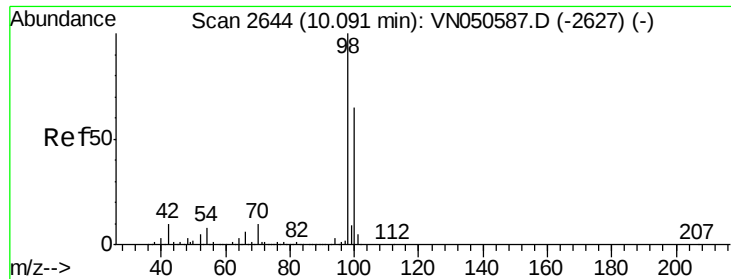
#43
Isopropyl Acetate
Concen: 5.28 ug/l
RT: 8.31 min Scan# 2089
Delta R.T. 0.14 min
Lab File: VN050741.D
Acq: 18 Aug 2018 00:51

Tgt Ion: 43 Resp: 57578
Ion Ratio Lower Upper
43 100
61 0.0 16.2 24.2#
87 0.0 10.9 16.3#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: 46.51 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN050741.D

Acq: 18 Aug 2018 00:51

Instrument :

MSVOA_N

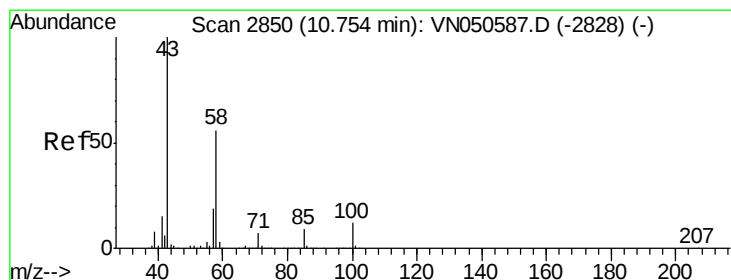
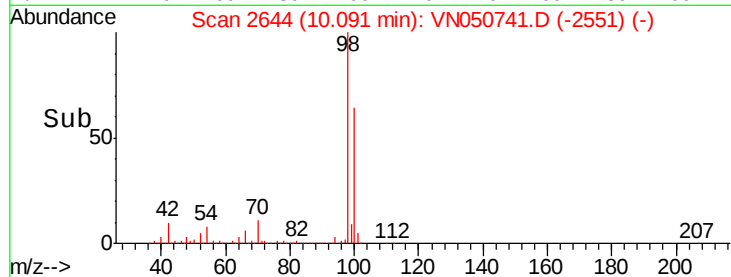
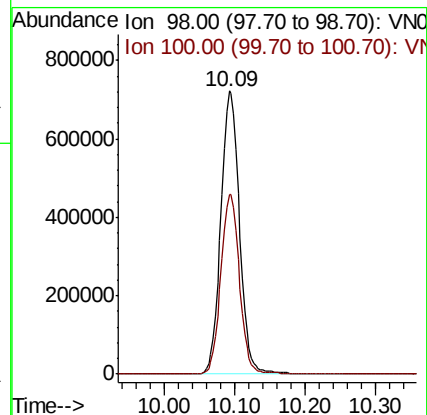
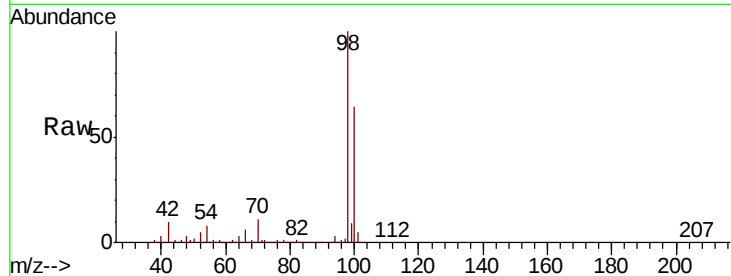
ClientSampled :

Tot Ion: 98 Resp: 1328484

Ion Ratio Lower Upper

98 100

100 63.6 51.8 77.8



#59

2-Hexanone

Concen: 0.27 ug/l

RT: 10.75 min Scan# 2850

Delta R.T. -0.00 min

Lab File: VN050741.D

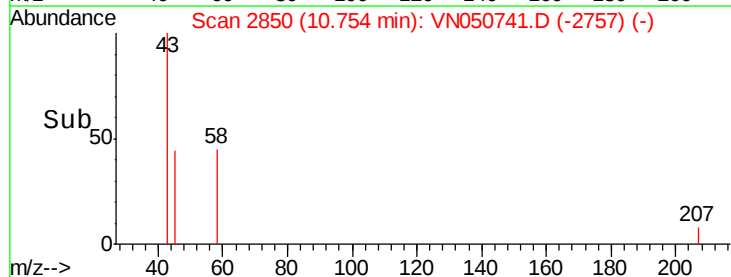
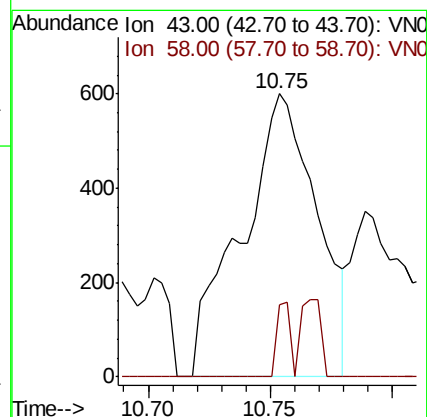
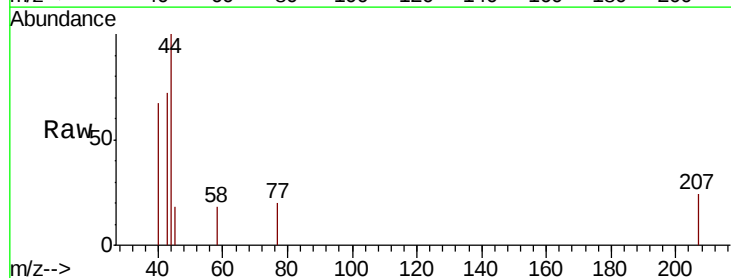
Acq: 18 Aug 2018 00:51

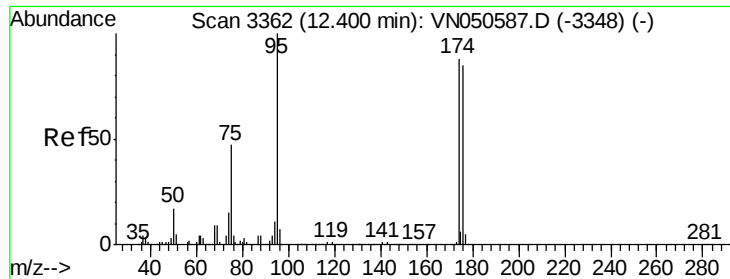
Tgt Ion: 43 Resp: 1288

Ion Ratio Lower Upper

43 100

58 4.7 28.0 84.0#





#62

4-Bromofluorobenzene

Concen: 35.92 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050741.D

Acq: 18 Aug 2018 00:51

Instrument :

MSVOA_N

ClientSampleId :

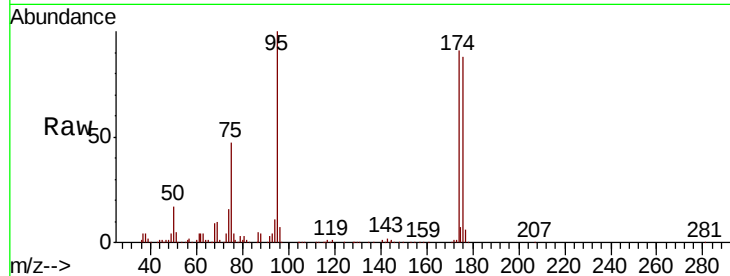
Tot Ion: 95 Resp: 338988

Ion Ratio Lower Upper

95 100

174 90.9 0.0 177.8

176 88.0 0.0 175.0

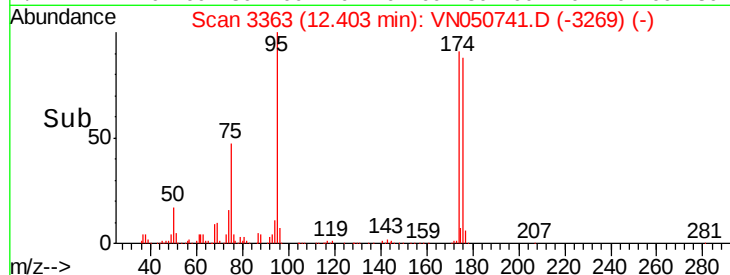


Abundance Ion 94.90 (94.60 to 95.60): VN050587.D (-3348) (-)

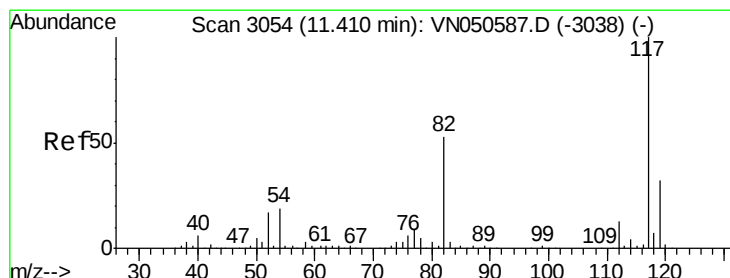
Ion 173.80 (173.50 to 174.50): VN050587.D (-3348) (-)

Ion 175.80 (175.50 to 176.50): VN050587.D (-3348) (-)

Time--> 12.30 12.40 12.50



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: VN050741.D

Acq: 18 Aug 2018 00:51

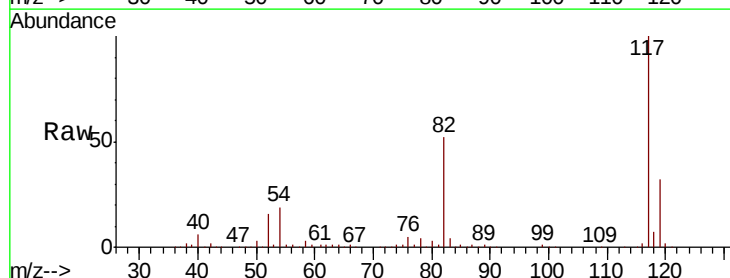
Tgt Ion: 117 Resp: 808414

Ion Ratio Lower Upper

117 100

82 52.3 42.4 63.6

119 32.1 25.8 38.8

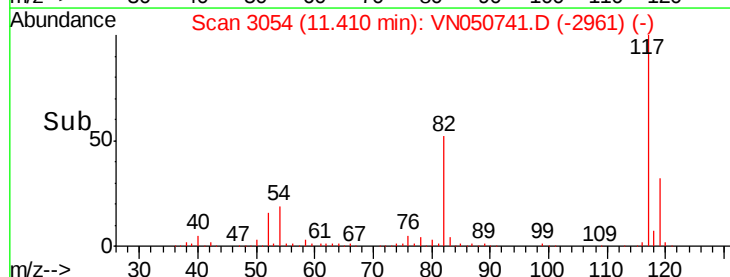


Abundance Ion 116.90 (116.60 to 117.60): VN050587.D (-3038) (-)

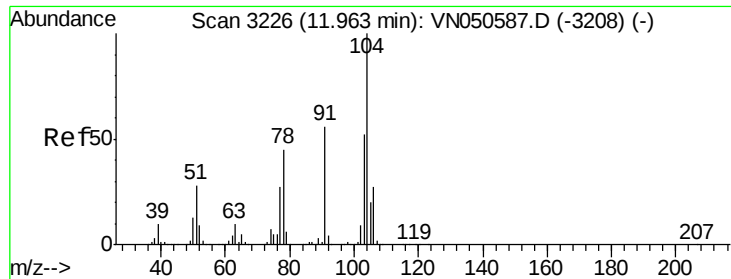
Ion 82.00 (81.70 to 82.70): VN050587.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN050587.D (-3038) (-)

Time--> 11.30 11.40 11.50



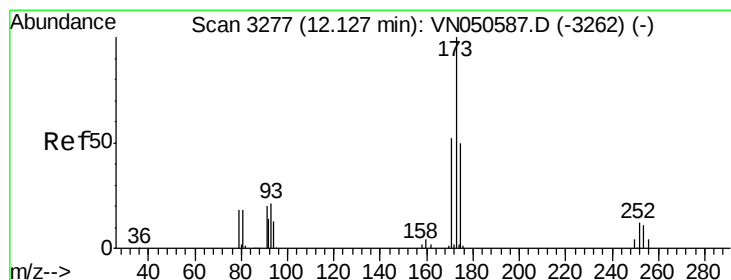
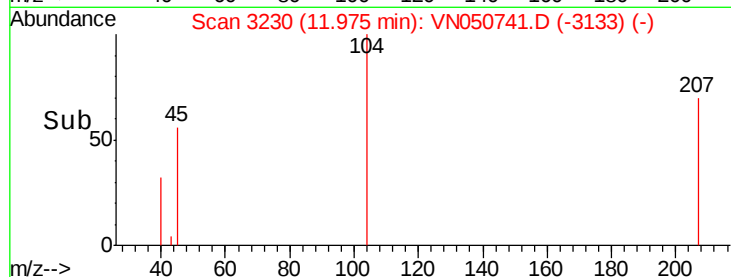
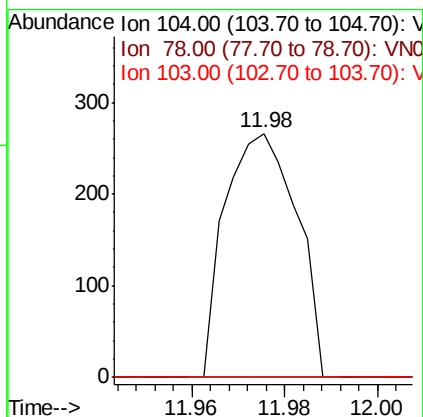
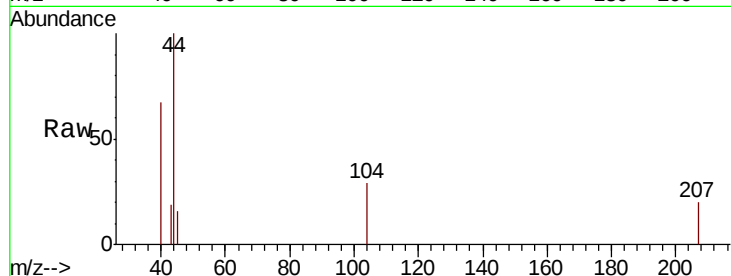
Time--> 11.30 11.40 11.50



#70
Stvrene
Concen: 0.95 ug/l
RT: 11.98 min Scan# 3230
Delta R.T. 0.01 min
Lab File: VN050741.D
Acq: 18 Aug 2018 00:51

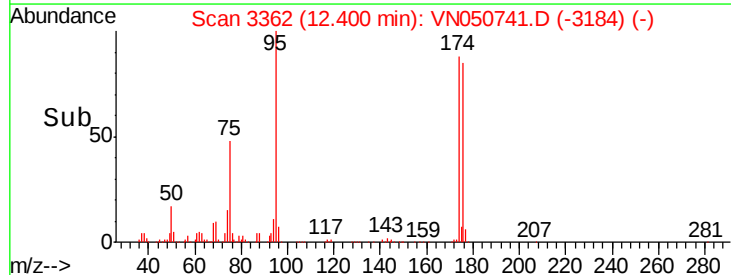
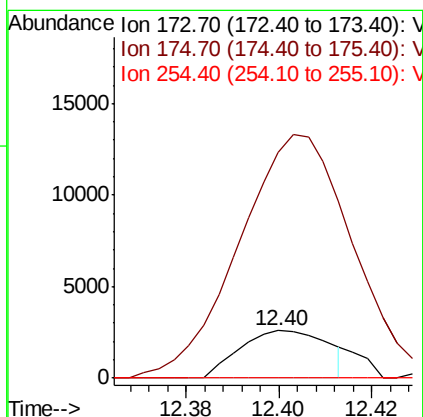
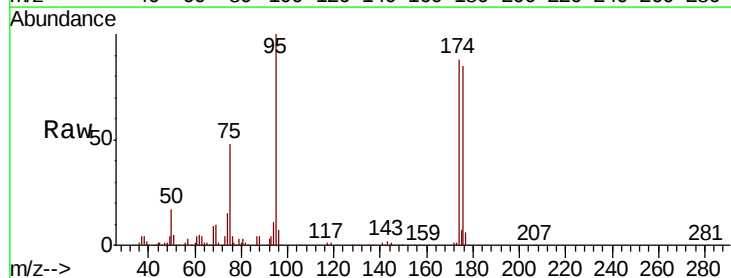
Instrument :
MSVOA_N
ClientSampleId :

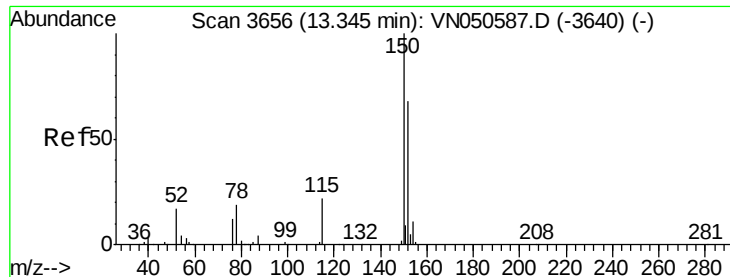
Tot Ion:104 Resp: 286
Ion Ratio Lower Upper
104 100
78 0.0 39.1 58.7#
103 0.0 44.9 67.3#



#71
Bromoform
Concen: 0.69 ug/l
RT: 12.40 min Scan# 3362
Delta R.T. 0.27 min
Lab File: VN050741.D
Acq: 18 Aug 2018 00:51

Tgt Ion:173 Resp: 3431
Ion Ratio Lower Upper
173 100
175 548.3 24.4 73.2#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN050741.D

Acq: 18 Aug 2018 00:51

Instrument :

MSVOA_N

ClientSampleId :

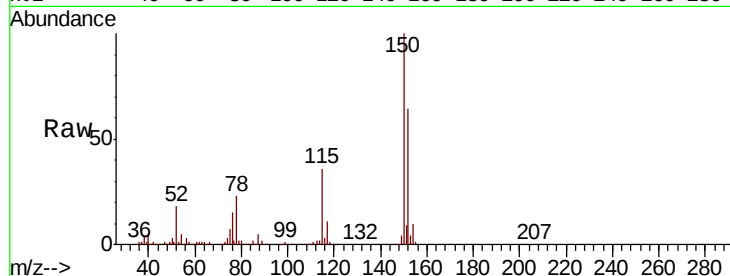
Tot Ion:152 Resp: 259281

Ion Ratio Lower Upper

152 100

115 56.1 28.1 84.2

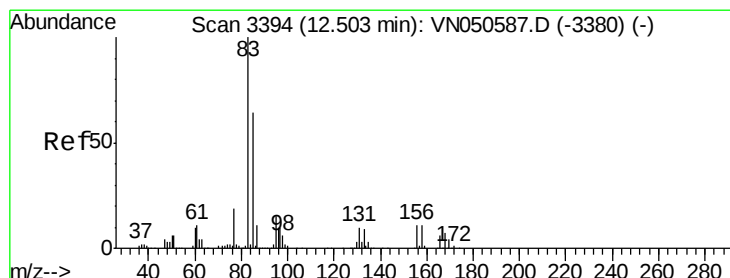
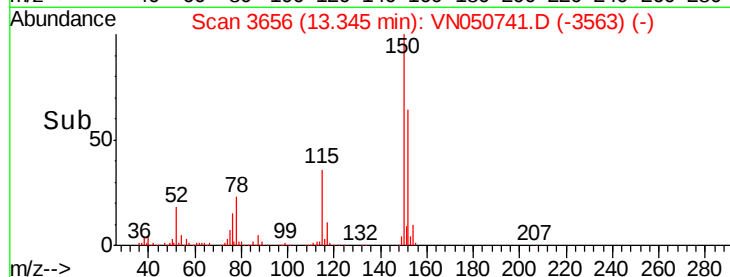
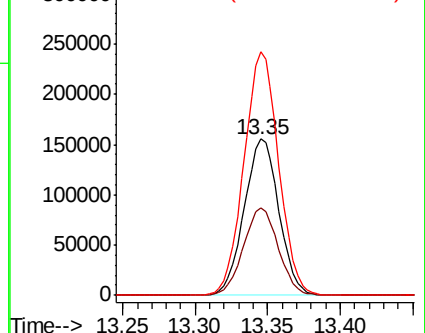
150 155.1 0.0 347.8



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: 12.41 min Scan# 3364

Delta R.T. -0.10 min

Lab File: VN050741.D

Acq: 18 Aug 2018 00:51

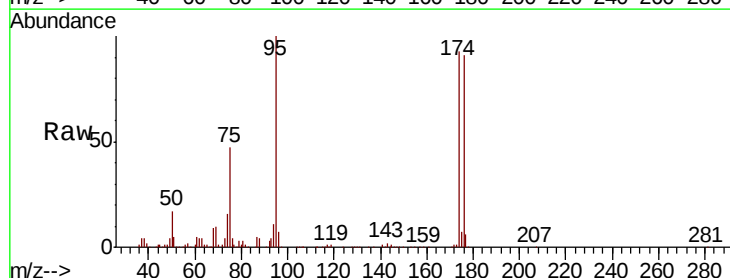
Tgt Ion: 83 Resp: 199

Ion Ratio Lower Upper

83 100

131 183.4 5.3 15.9#

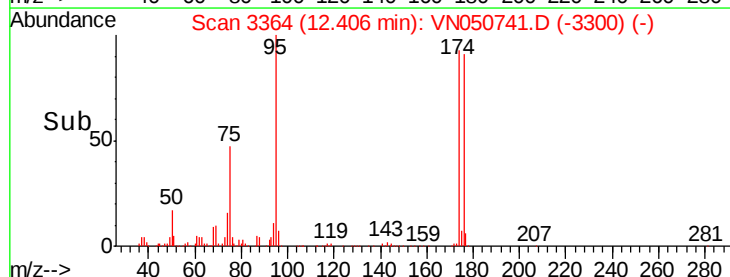
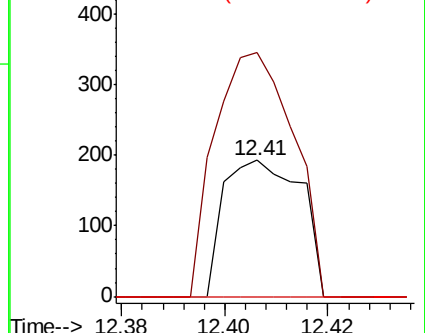
85 0.0 32.1 96.5#

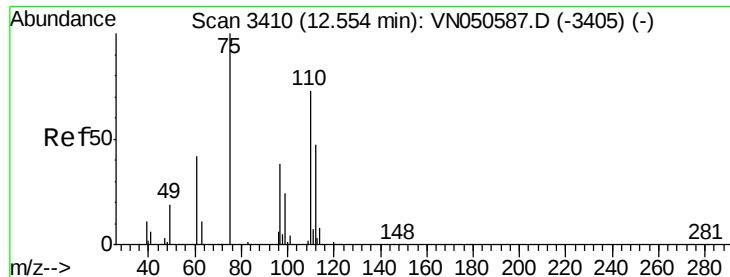


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 37.92 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050741.D

Acq: 18 Aug 2018 00:51

Instrument :

MSVOA_N

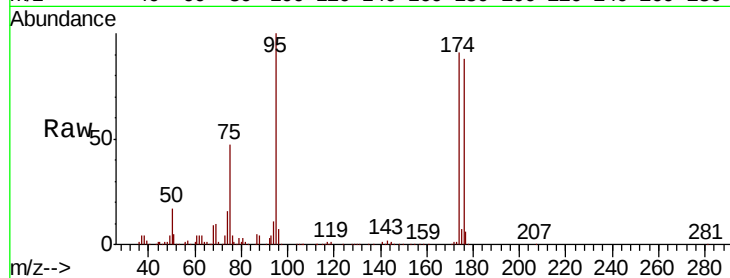
ClientSampleId :

Tot Ion: 75 Resp: 159892

Ion Ratio Lower Upper

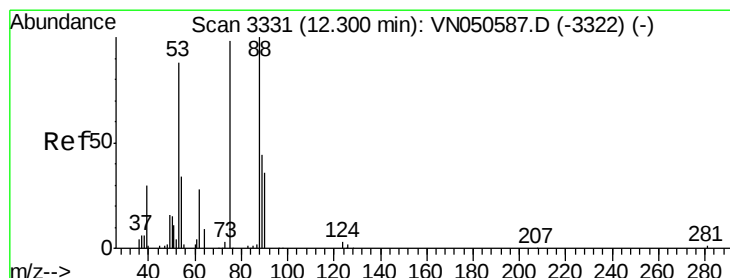
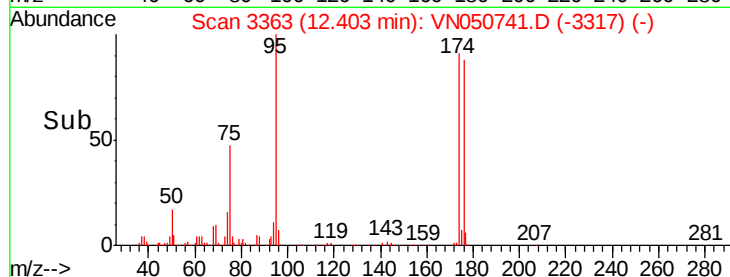
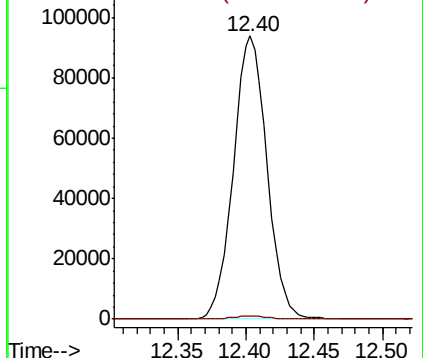
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 137.10 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050741.D

Acq: 18 Aug 2018 00:51

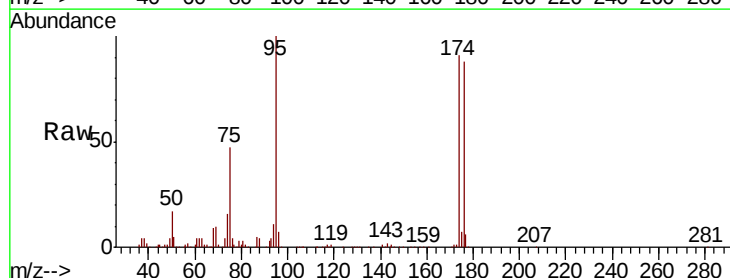
Tgt Ion: 75 Resp: 159892

Ion Ratio Lower Upper

75 100

53 0.2 72.2 108.2#

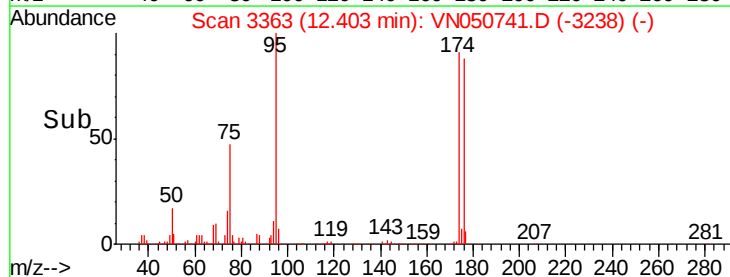
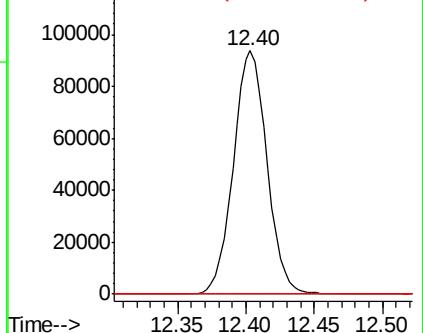
89 0.0 36.3 54.5#

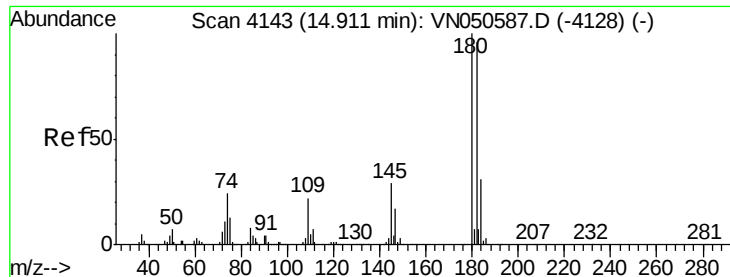


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

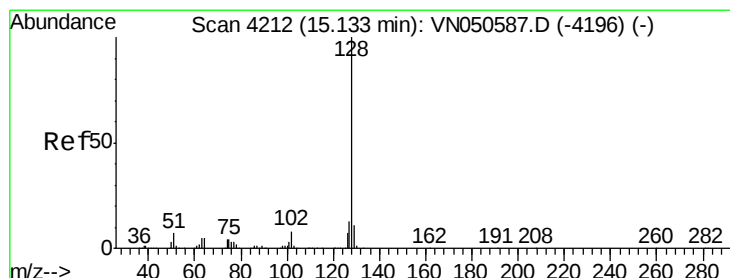
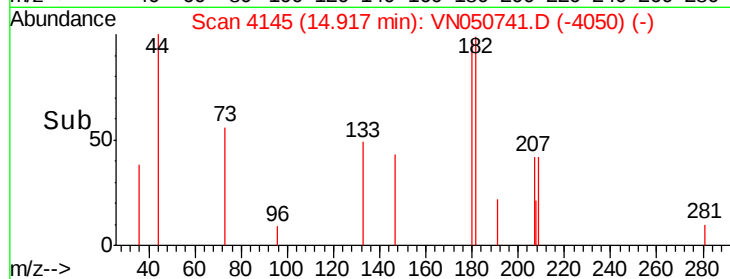
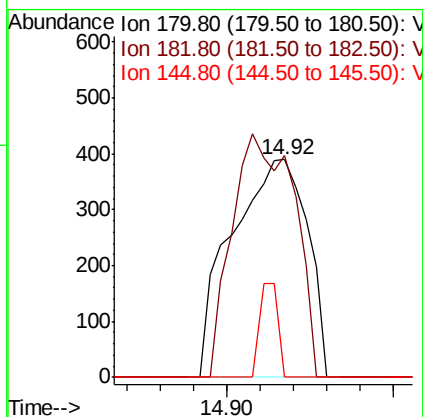
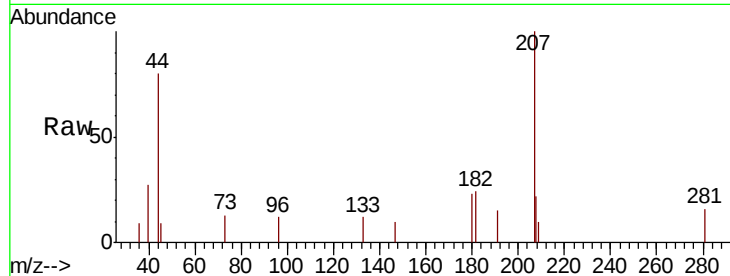




#93
 1,2,4-Trichlorobenzene
 Concen: 2.80 ug/l
 RT: 14.92 min Scan# 4145
 Delta R.T. 0.01 min
 Lab File: VN050741.D
 Acq: 18 Aug 2018 00:51

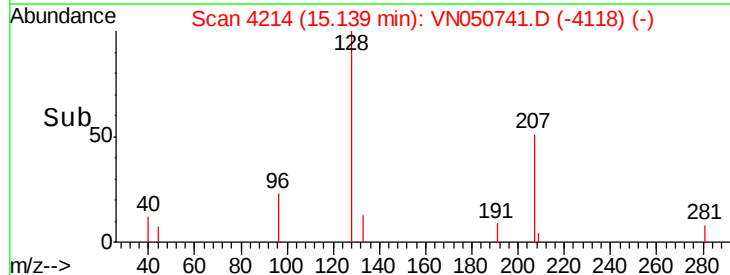
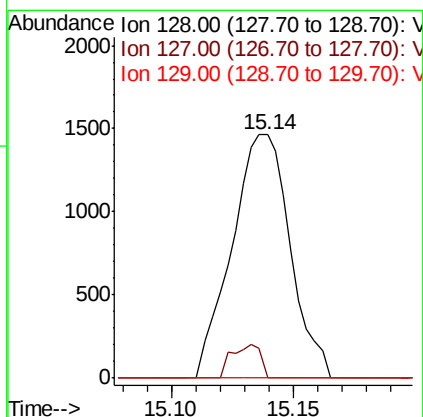
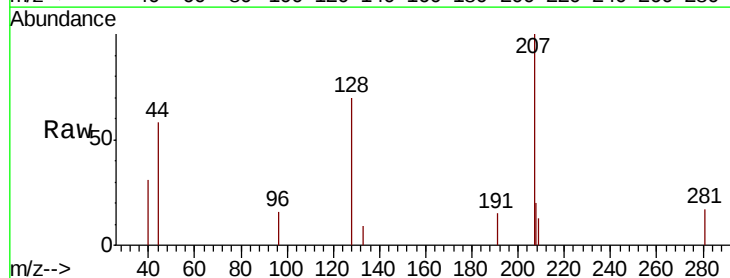
Instrument :
 MSVOA_N
 ClientSampled :

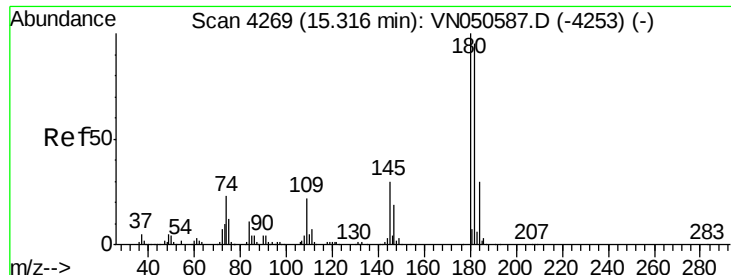
Tot Ion:180 Resp: 621
 Ion Ratio Lower Upper
 180 100
 182 91.0 47.9 143.7
 145 10.5 14.4 43.4#



#95
 Naphthalene
 Concen: 4.08 ug/l
 RT: 15.14 min Scan# 4214
 Delta R.T. 0.01 min
 Lab File: VN050741.D
 Acq: 18 Aug 2018 00:51

Tgt Ion:128 Resp: 2422
 Ion Ratio Lower Upper
 128 100
 127 6.8 10.3 15.5#
 129 0.0 8.5 12.7#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.12 ug/l
 RT: 15.32 min Scan# 4269
 Delta R.T. 0.00 min
 Lab File: VN050741.D
 Acq: 18 Aug 2018 00:51

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	121.1	47.3	141.8
145	8.7	14.6	44.0

