

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081618\
 Data File : VN050706.D
 Acq On : 16 Aug 2018 17:10
 Operator : MD\SY
 Sample : PB112098ZHE#10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 17 04:32:26 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	610574	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1035171	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	870978	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	303214	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	426562	55.42	ug/l	0.00
Spiked Amount			Recovery	=	110.84%	
35) Dibromofluoromethane	7.59	113	399623	48.35	ug/l	0.00
Spiked Amount			Recovery	=	96.70%	
50) Toluene-d8	10.09	98	1408445	45.28	ug/l	0.00
Spiked Amount			Recovery	=	90.56%	
62) 4-Bromofluorobenzene	12.40	95	375092	36.50	ug/l	0.00
Spiked Amount			Recovery	=	73.00%	

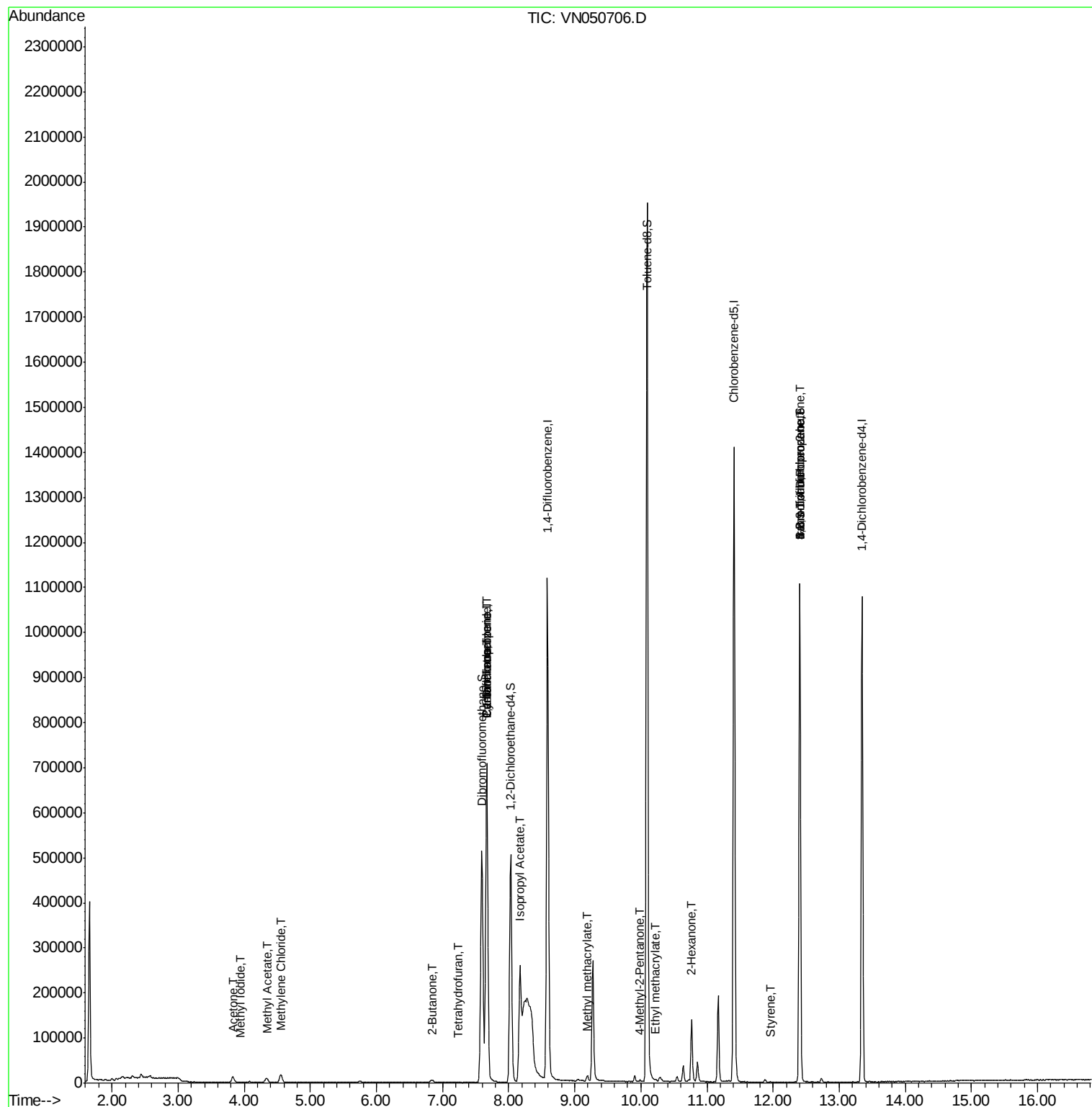
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2692	Below Cal		92
5) Bromomethane	2.57	94	2942	Below Cal		90
6) Chloroethane	2.71	64	147	Below Cal	#	43
10) Methyl Iodide	3.95	142	545	7.040	ug/l #	56
16) Acetone	3.82	43	21997	10.055	ug/l	92
18) Methyl Acetate	4.34	43	19904	2.742	ug/l	93
20) Methylene Chloride	4.55	84	13106	0.533	ug/l	91
25) 2-Butanone	6.85	43	4451	1.411	ug/l #	86
29) Tetrahydrofuran	7.22	42	587	0.356	ug/l #	50
31) Cyclohexane	7.67	56	11288	0.626	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	41792	3.627	ug/l #	48
38) Carbon Tetrachloride	7.67	117	54994	4.600	ug/l #	16
43) Isopropyl Acetate	8.17	43	333061	28.058	ug/l #	92
48) Methyl methacrylate	9.18	41	7382	1.236	ug/l #	20
51) 4-Methyl-2-Pentanone	9.99	43	2652	0.330	ug/l	95
56) Ethyl methacrylate	10.23	69	2451	2.141	ug/l #	73
59) 2-Hexanone	10.77	43	19303	3.725	ug/l #	58
70) Styrene	11.96	104	120	0.946	ug/l #	26
71) Bromoform	12.40	173	3527	0.655	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.40	83	169	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	177137	35.868	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	177137	129.879	ug/l #	13

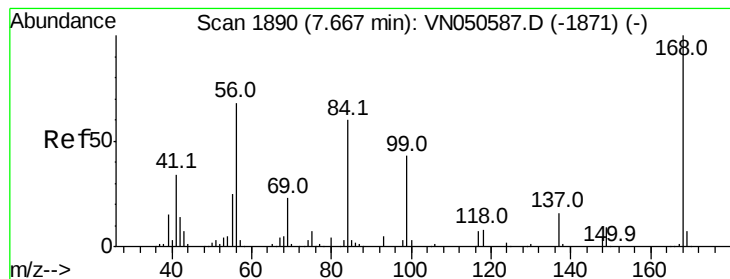
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050706.D

Acq: 16 Aug 2018 17:10

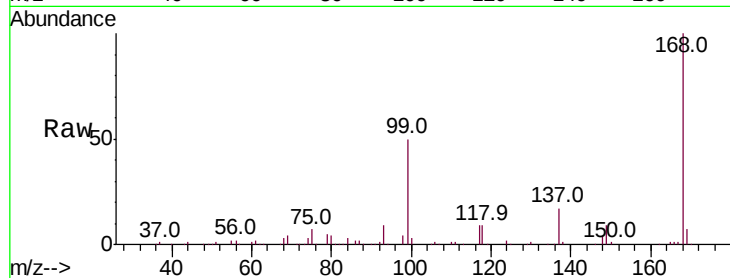
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 610574

Ion Ratio Lower Upper

168 100

99 50.1 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

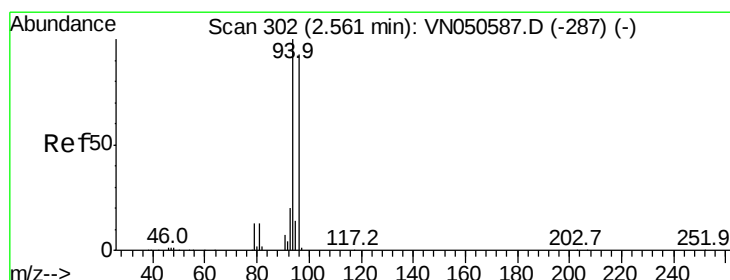
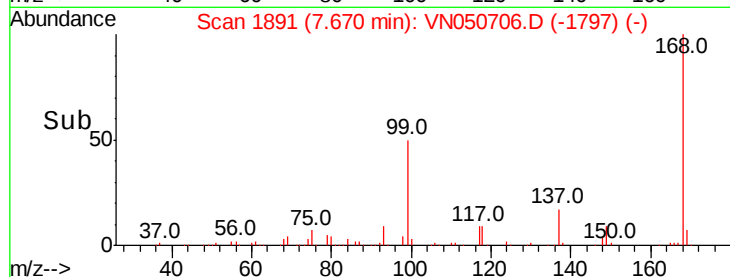
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050706.D

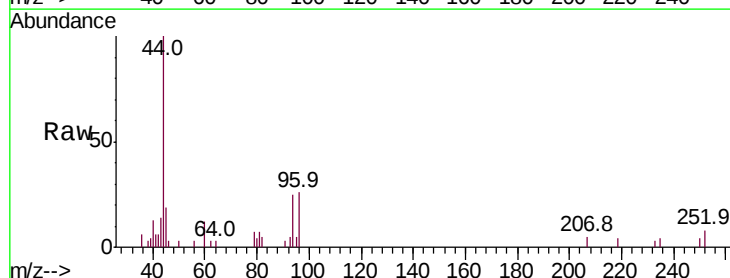
Acq: 16 Aug 2018 17:10

Tgt Ion: 94 Resp: 2942

Ion Ratio Lower Upper

94 100

96 102.5 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

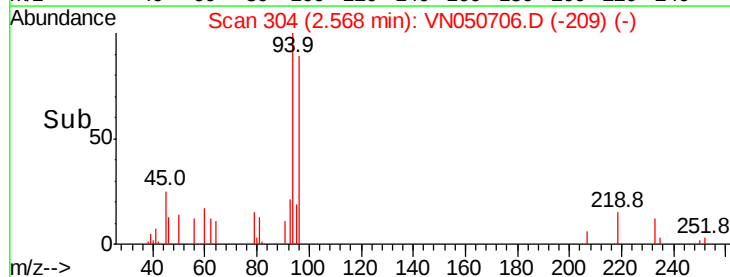
1500

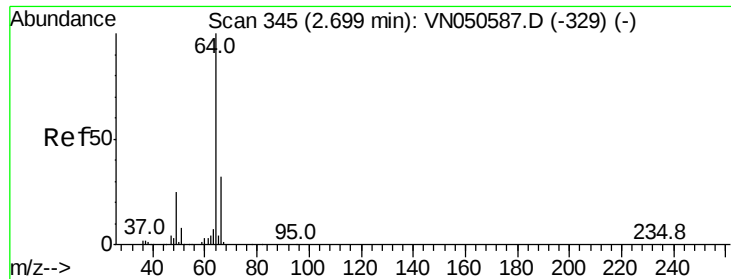
1000

500

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 2.71 min Scan# 347

Delta R.T. 0.01 min

Lab File: VN050706.D

Acq: 16 Aug 2018 17:10

Instrument :

MSVOA_N

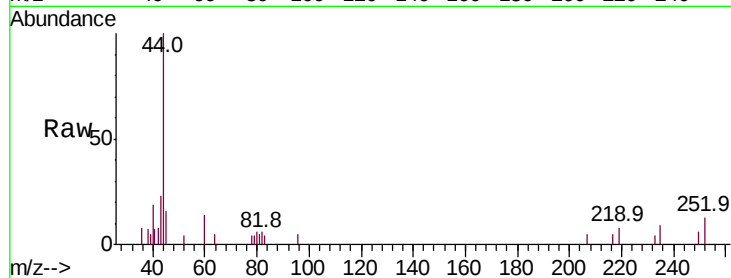
ClientSampleId :

Tot Ion: 64 Resp: 147

Ion Ratio Lower Upper

64 100

66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN050587.D (-329) (-)

Ion 65.90 (65.60 to 66.60): VN050587.D (-329) (-)

2.71

200

150

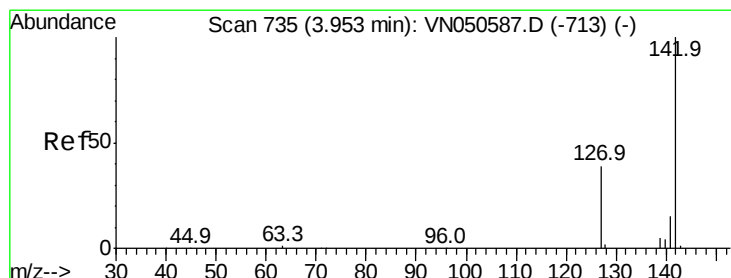
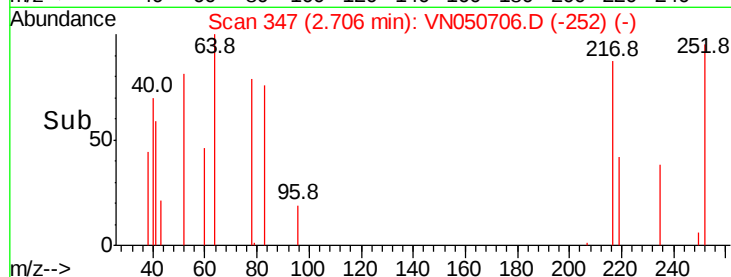
100

50

0

2.69 2.70 2.71 2.72

Time-->



#10

Methyl Iodide

Concen: 7.040 ug/l

RT: 3.95 min Scan# 734

Delta R.T. -0.00 min

Lab File: VN050706.D

Acq: 16 Aug 2018 17:10

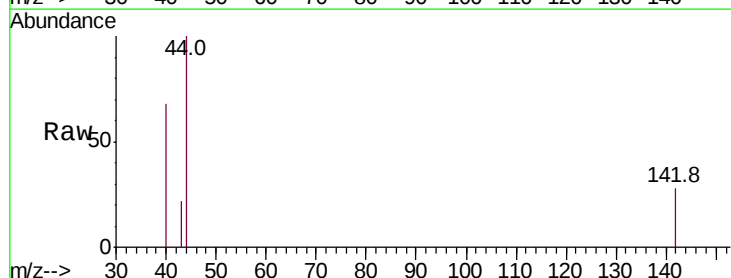
Tgt Ion: 142 Resp: 545

Ion Ratio Lower Upper

142 100

127 11.0 32.6 49.0#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): VN050587.D (-713) (-)

Ion 126.80 (126.50 to 127.50): VN050587.D (-713) (-)

Ion 140.80 (140.50 to 141.50): VN050587.D (-713) (-)

3.95

400

300

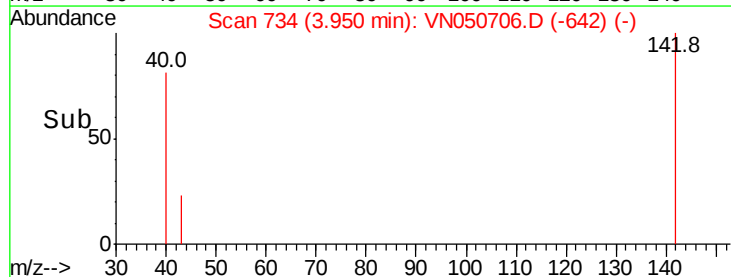
200

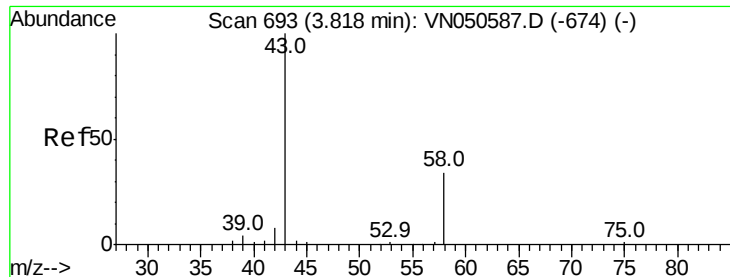
100

0

3.92 3.94 3.96 3.98

Time-->





#16

Acetone

Concen: 10.055 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN050706.D

Acq: 16 Aug 2018 17:10

Instrument :

MSVOA_N

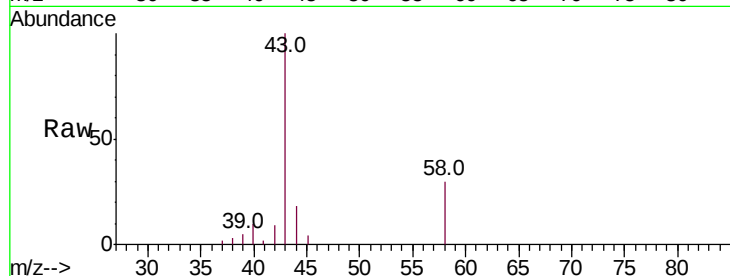
ClientSampled :

Tot Ion: 43 Resp: 21997

Ion Ratio Lower Upper

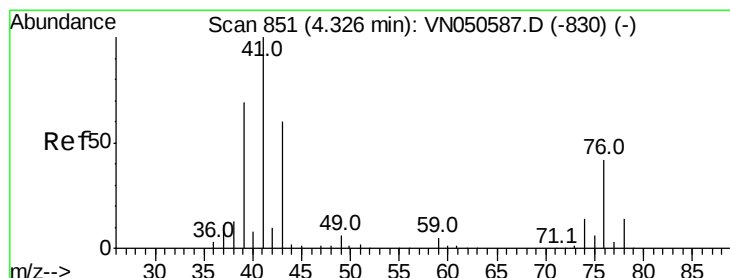
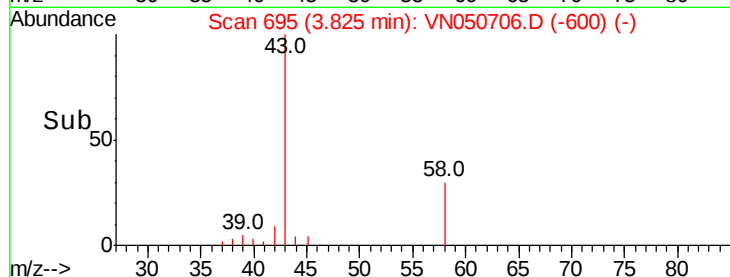
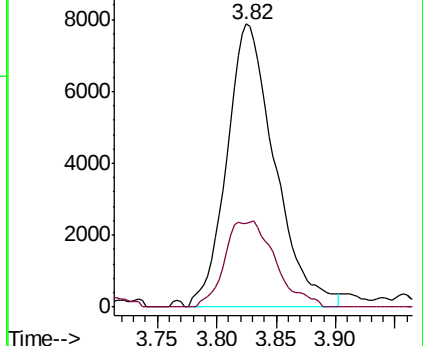
43 100

58 29.5 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 2.742 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN050706.D

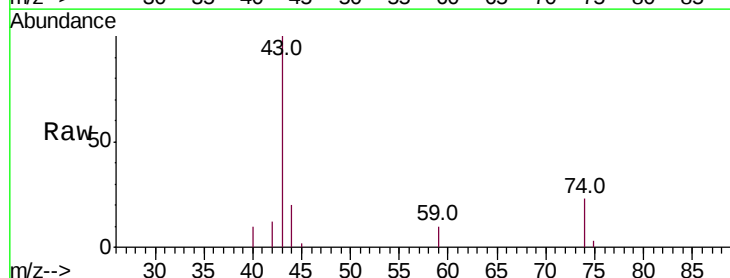
Acq: 16 Aug 2018 17:10

Tgt Ion: 43 Resp: 19904

Ion Ratio Lower Upper

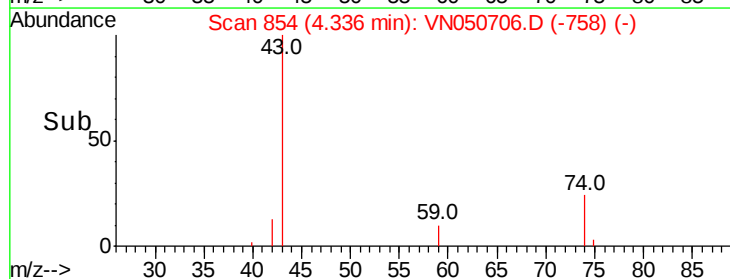
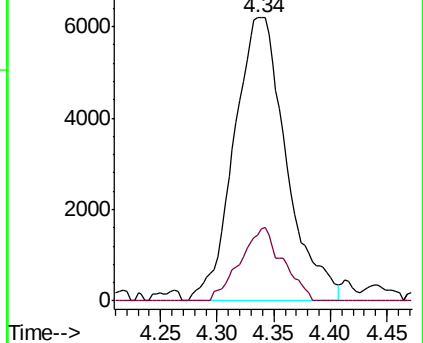
43 100

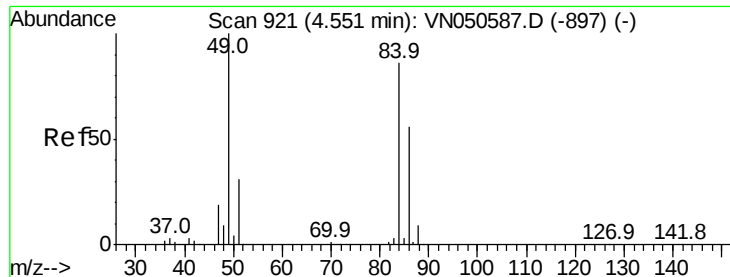
74 21.2 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

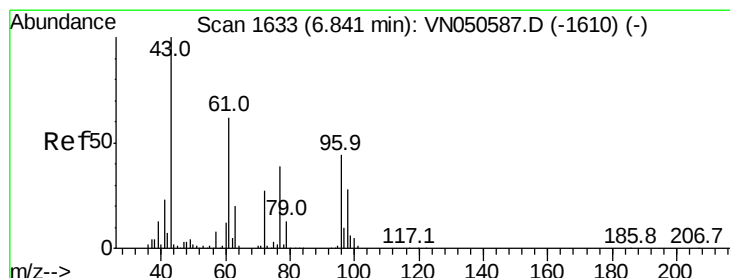
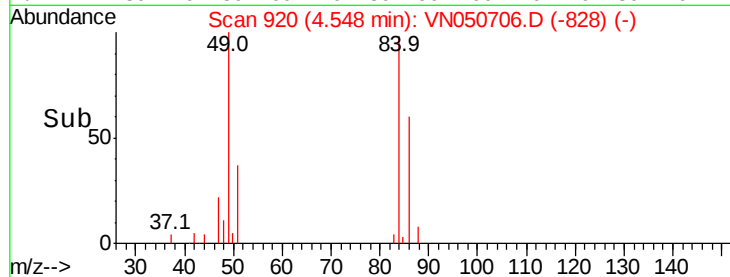
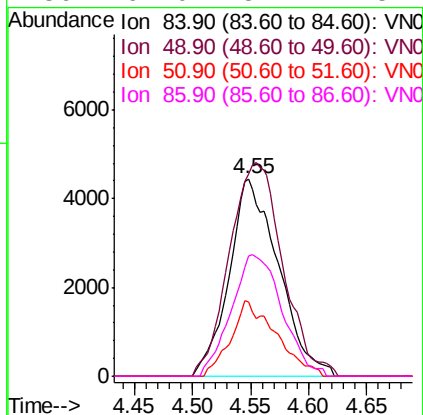
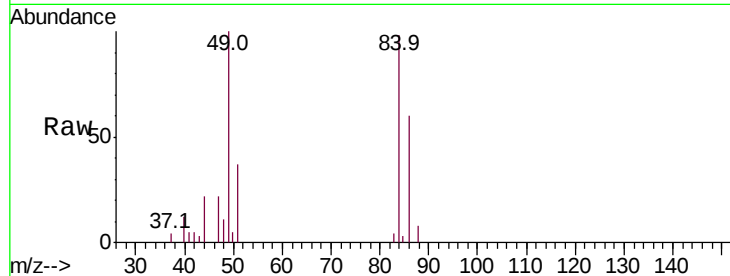




#20
Methvlene Chloride
Concen: 0.533 ug/l
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN050706.D
Acq: 16 Aug 2018 17:10

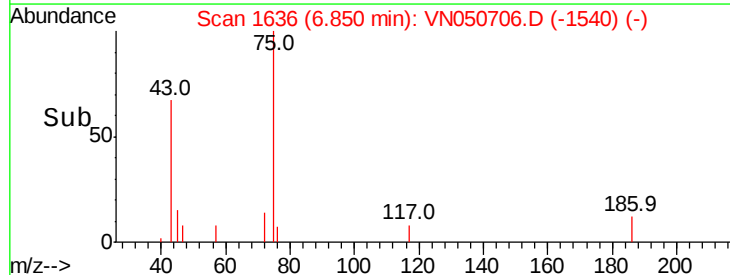
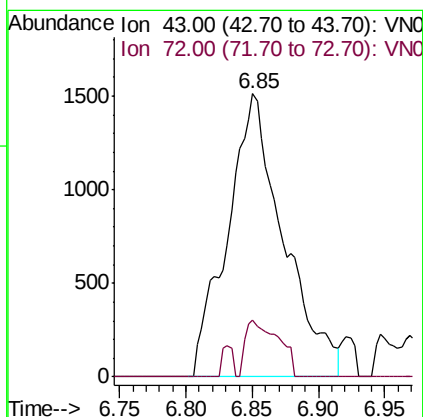
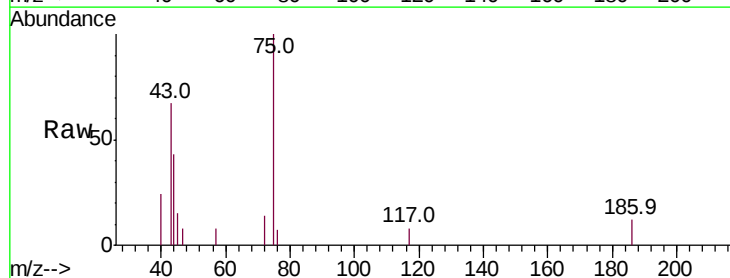
Instrument :
MSVOA_N
ClientSampleId :

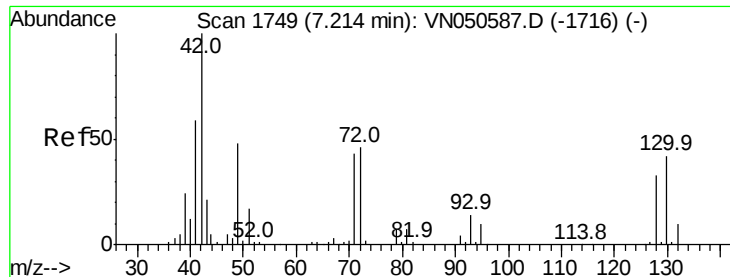
Tot Ion: 84 Resp: 13106
Ion Ratio Lower Upper
84 100
49 102.5 92.6 138.8
51 37.8 28.6 43.0
86 61.0 52.2 78.2



#25
2-Butanone
Concen: 1.411 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN050706.D
Acq: 16 Aug 2018 17:10

Tgt Ion: 43 Resp: 4451
Ion Ratio Lower Upper
43 100
72 20.2 21.8 32.6#





#29

Tetrahydrofuran

Concen: 0.356 ug/l

RT: 7.22 min Scan# 1751

Delta R.T. 0.01 min

Lab File: VN050706.D

Acq: 16 Aug 2018 17:10

Instrument :
MSVOA_N
ClientSampled :

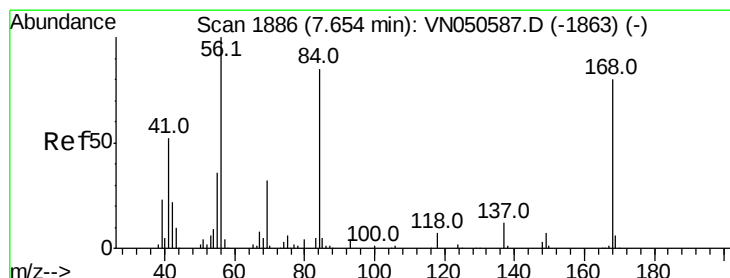
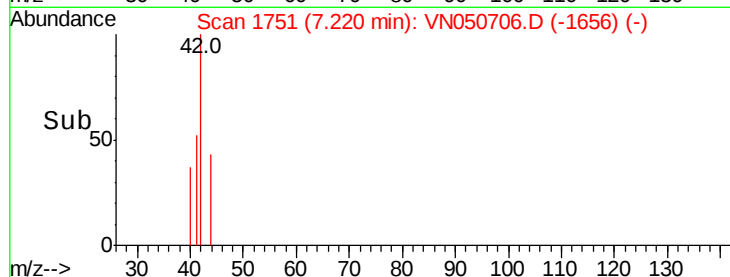
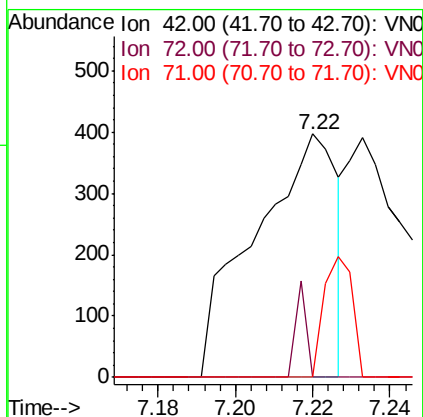
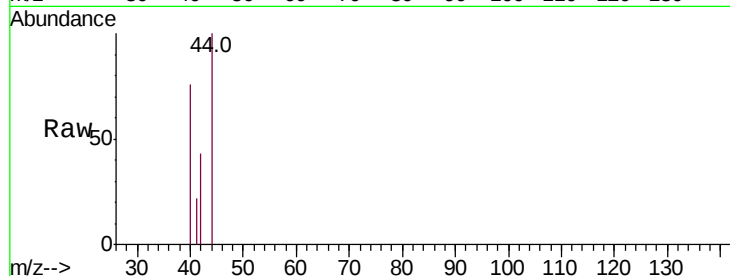
Tot Ion: 42 Resp: 587

Ion Ratio Lower Upper

42 100

72 5.1 35.8 53.6#

71 17.0 33.4 50.0#



#31

Cyclohexane

Concen: 0.626 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050706.D

Acq: 16 Aug 2018 17:10

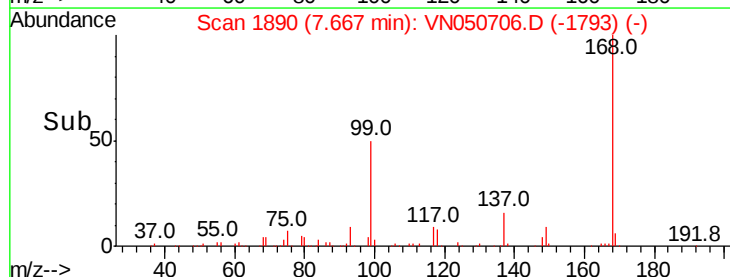
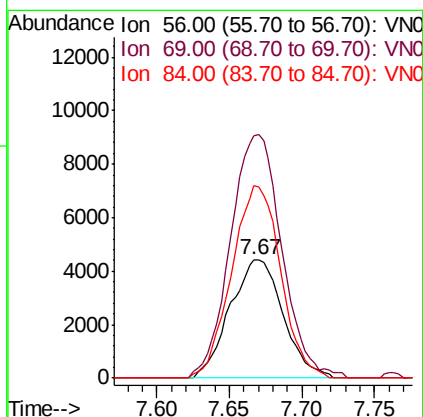
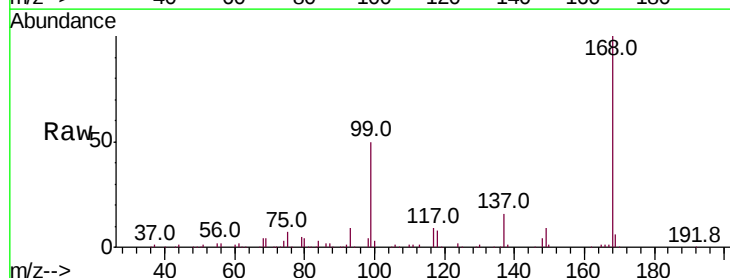
Tgt Ion: 56 Resp: 11288

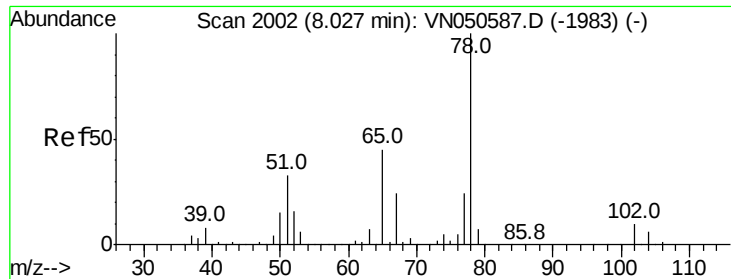
Ion Ratio Lower Upper

56 100

69 204.7 25.8 38.6#

84 162.7 67.8 101.6#

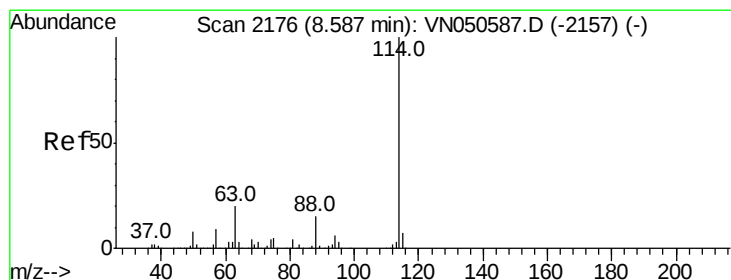
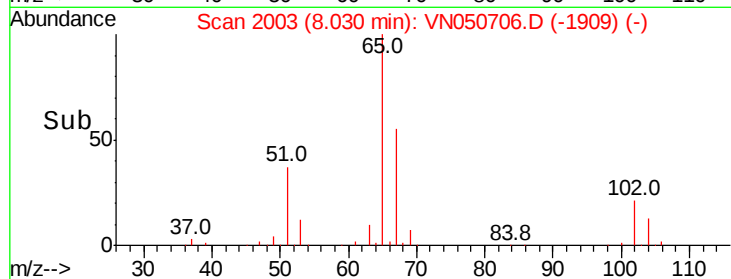
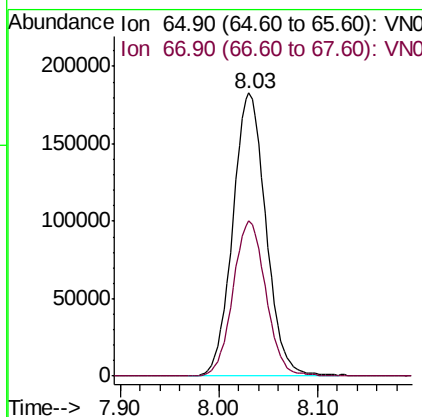
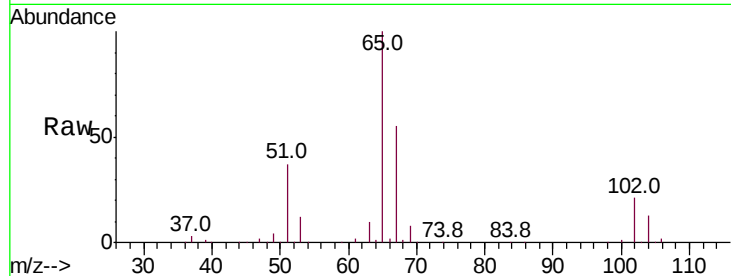




#33
 1,2-Dichloroethane-d4
 Concen: 55.424 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050706.D
 Acq: 16 Aug 2018 17:10

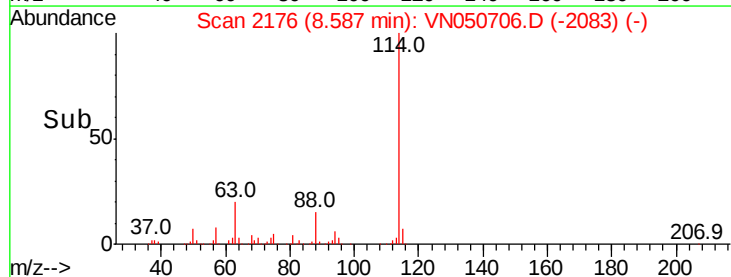
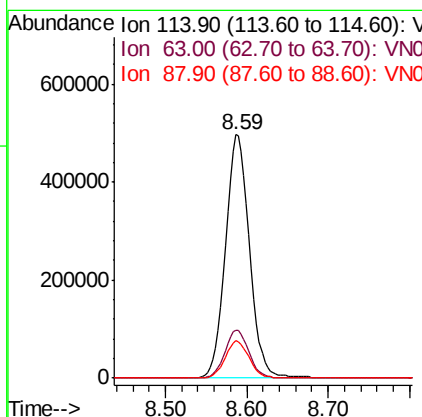
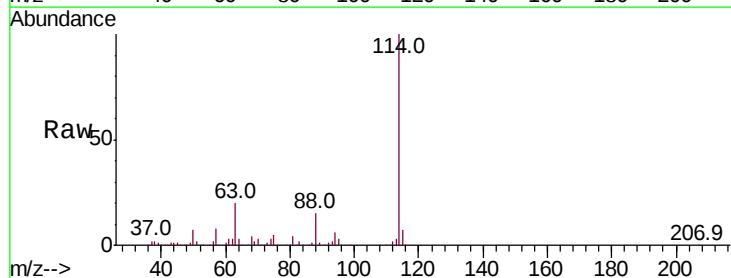
Instrument :
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 ClientSampleId :

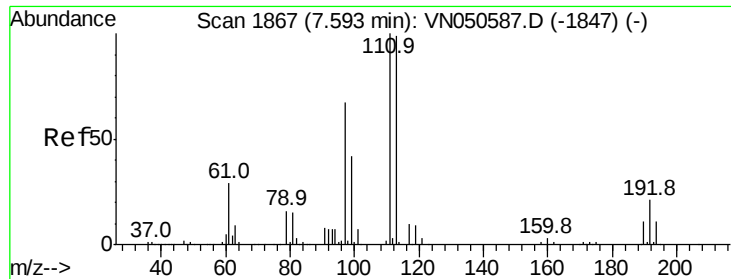
Tot Ion: 65 Resp: 426562
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050706.D
 Acq: 16 Aug 2018 17:10

Tgt Ion: 114 Resp: 1035171
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 40.0
 88 15.2 0.0 30.8

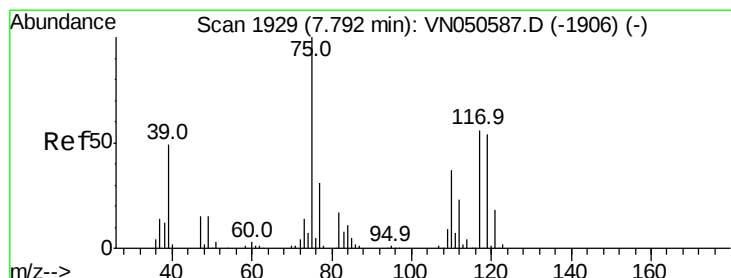
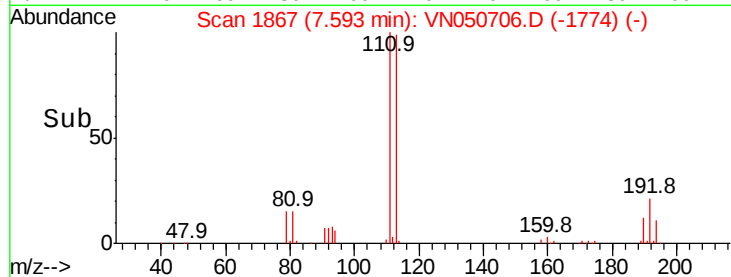
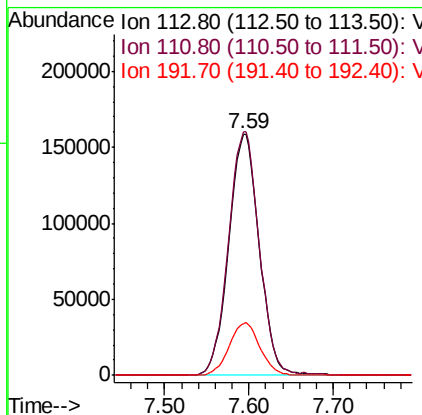
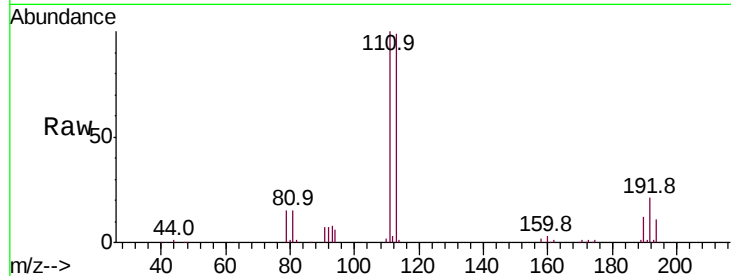




#35
 Dibromofluoromethane
 Concen: 48.355 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050706.D
 Acq: 16 Aug 2018 17:10

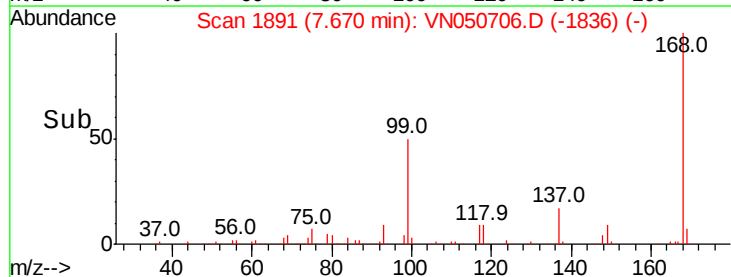
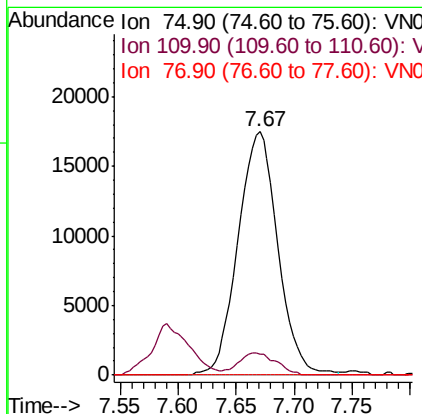
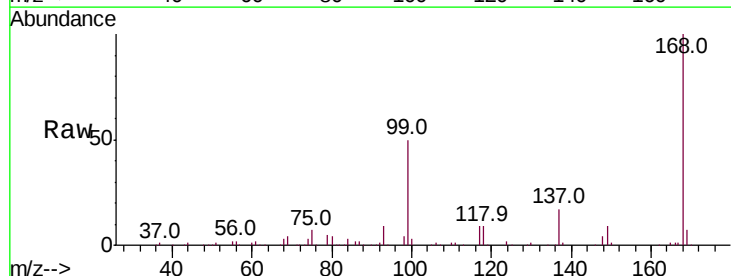
Instrument :
 MSVOA_N
 ClientSampleId :

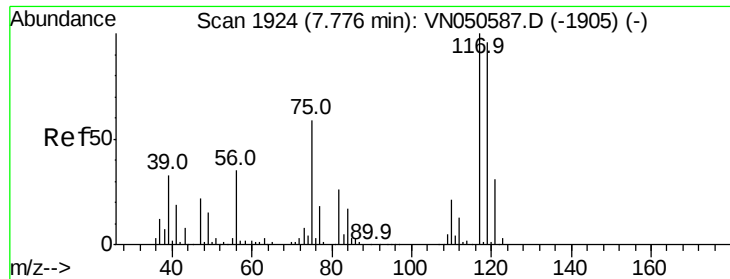
Tot Ion:113 Resp: 399623
 Ion Ratio Lower Upper
 113 100
 111 101.2 81.0 121.6
 192 21.9 17.6 26.4



#36
 1,1-Dichloropropene
 Concen: 3.627 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.12 min
 Lab File: VN050706.D
 Acq: 16 Aug 2018 17:10

Tgt Ion: 75 Resp: 41792
 Ion Ratio Lower Upper
 75 100
 110 8.6 18.3 54.9#
 77 0.0 25.0 37.4#

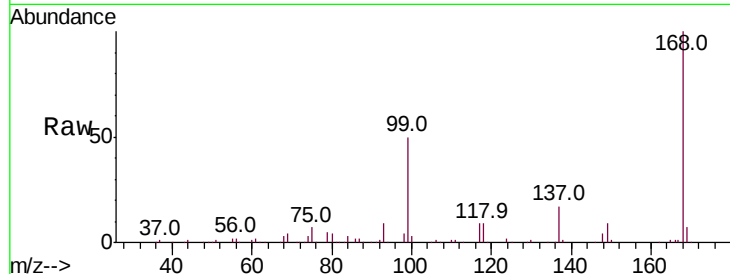




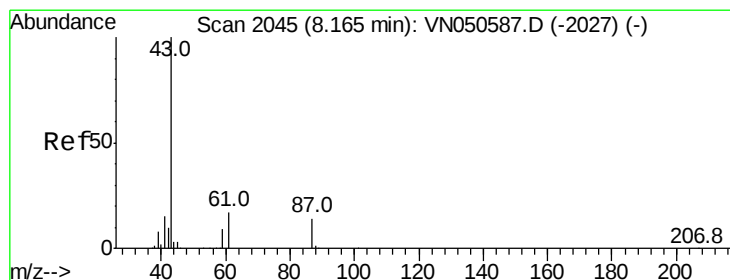
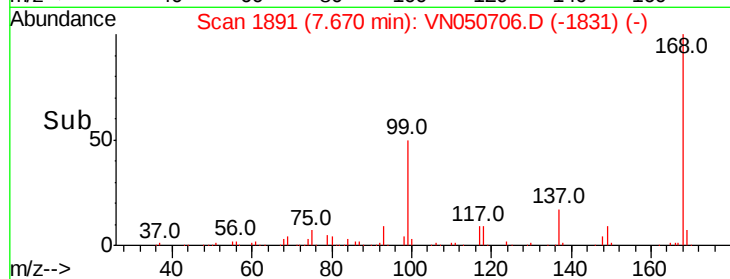
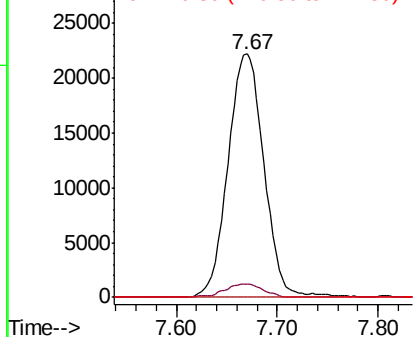
#38
Carbon Tetrachloride
Concen: 4.600 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN050706.D
Acq: 16 Aug 2018 17:10

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 54994
Ion Ratio Lower Upper
117 100
119 5.3 76.6 115.0#
121 0.0 25.0 37.6#

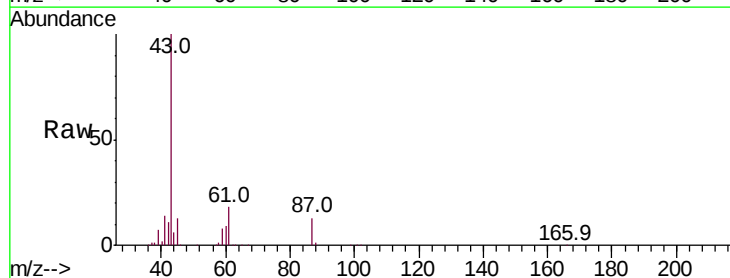


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

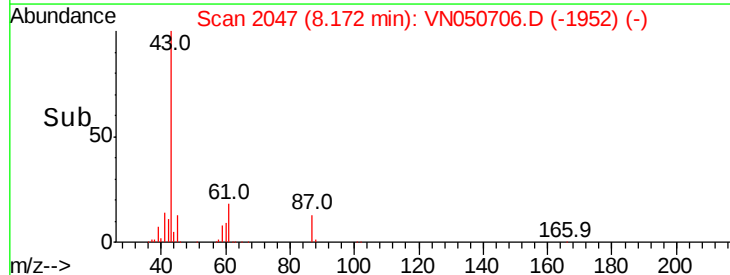
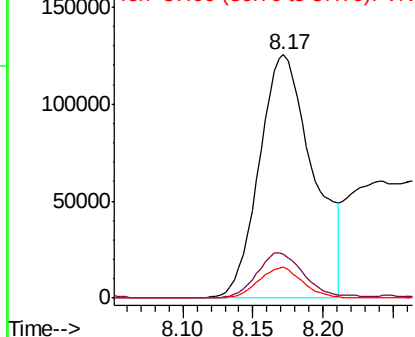


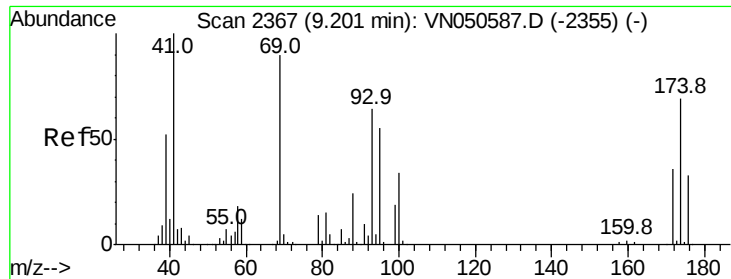
#43
Isopropyl Acetate
Concen: 28.058 ug/l
RT: 8.17 min Scan# 2047
Delta R.T. 0.01 min
Lab File: VN050706.D
Acq: 16 Aug 2018 17:10

Tgt Ion: 43 Resp: 333061
Ion Ratio Lower Upper
43 100
61 16.4 16.2 24.2
87 10.4 10.9 16.3#



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

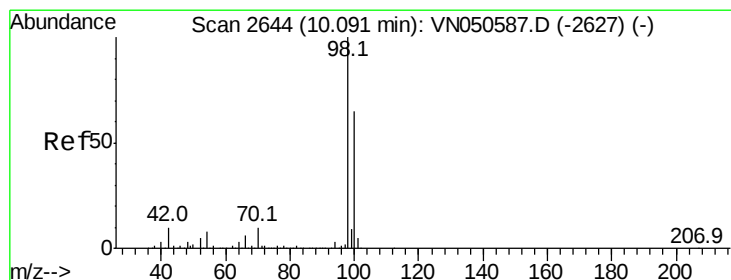
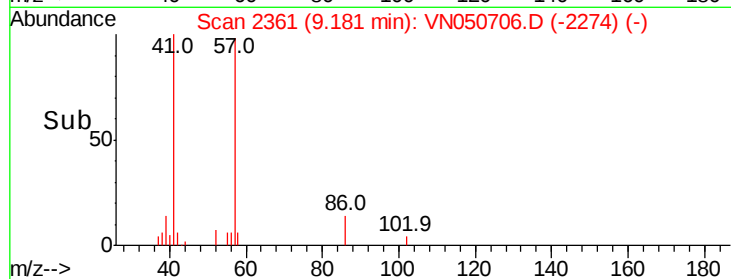
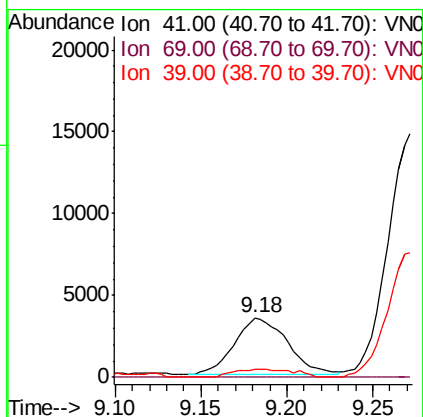
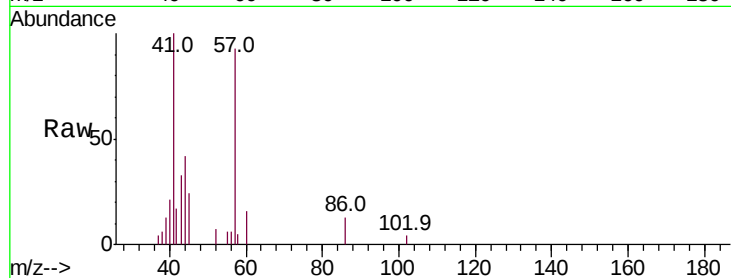




#48
Methyl methacrylate
Concen: 1.236 ug/l
RT: 9.18 min Scan# 2361
Delta R.T. -0.02 min
Lab File: VN050706.D
Acq: 16 Aug 2018 17:10

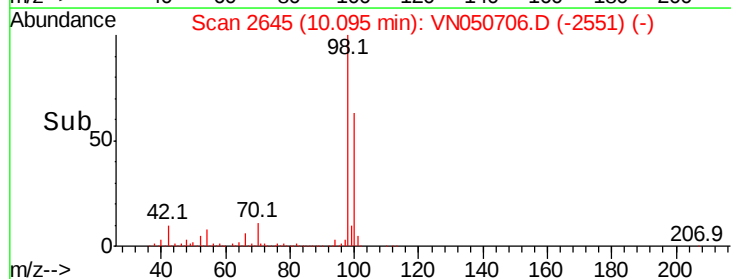
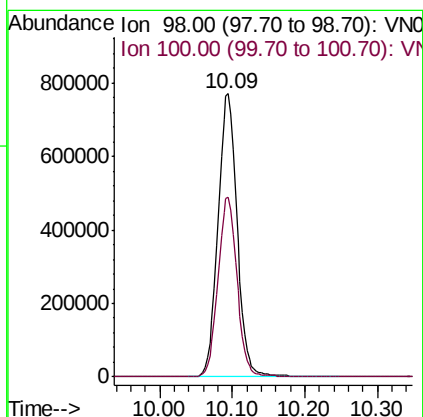
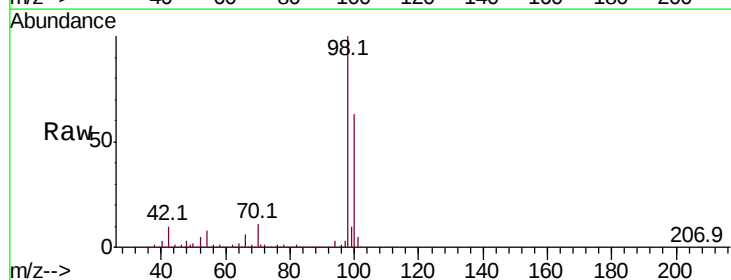
Instrument :
MSVOA_N
ClientSampled :

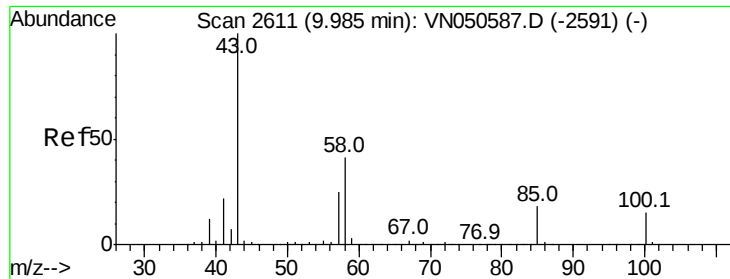
Tot Ion: 41 Resp: 7382
Ion Ratio Lower Upper
41 100
69 0.0 73.4 110.0#
39 16.4 43.0 64.6#



#50
Toluene-d8
Concen: 45.282 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050706.D
Acq: 16 Aug 2018 17:10

Tgt Ion: 98 Resp: 1408445
Ion Ratio Lower Upper
98 100
100 63.3 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 0.330 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN050706.D

Acq: 16 Aug 2018 17:10

Instrument :

MSVOA_N

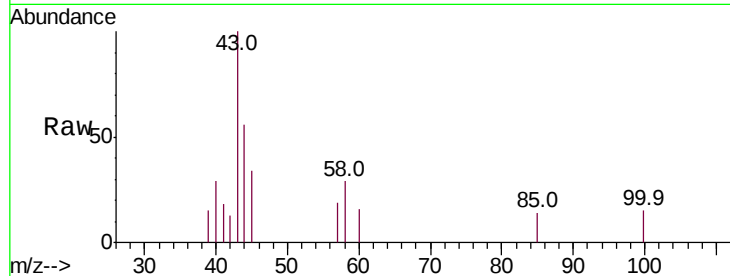
ClientSampled :

Tot Ion: 43 Resp: 2652

Ion Ratio Lower Upper

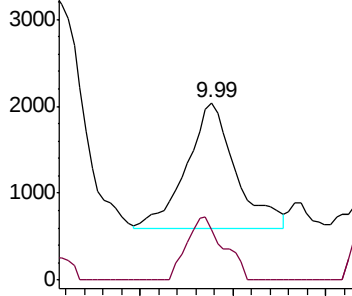
43 100

58 37.7 32.5 48.7

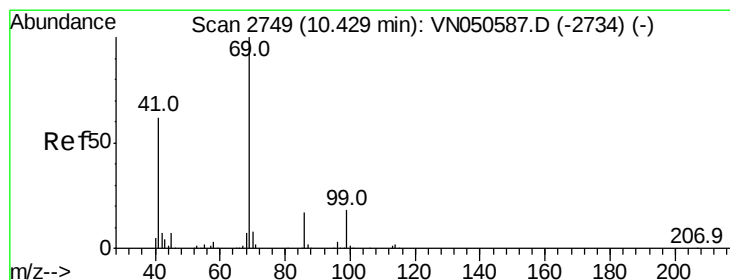
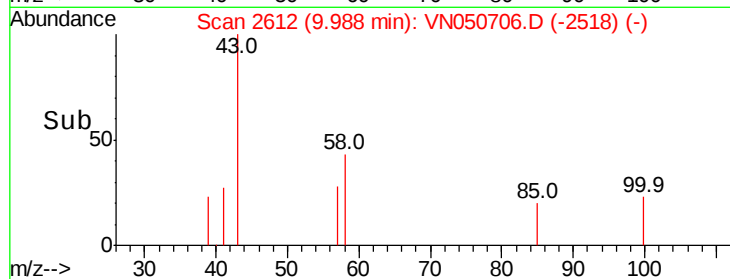


Abundance Ion 43.00 (42.70 to 43.70): VN050587.D (-2591) (-)

Ion 58.00 (57.70 to 58.70): VN050587.D (-2591) (-)



Time-->



#56

Ethyl methacrylate

Concen: 2.141 ug/l

RT: 10.23 min Scan# 2686

Delta R.T. -0.20 min

Lab File: VN050706.D

Acq: 16 Aug 2018 17:10

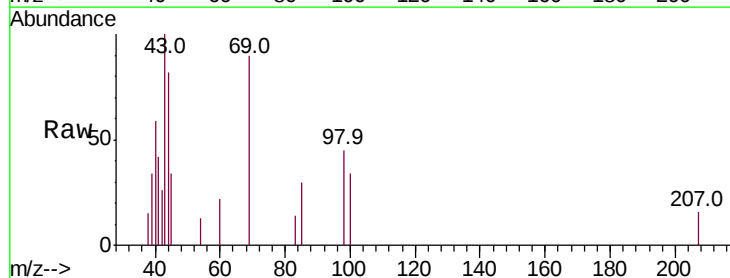
Tgt Ion: 69 Resp: 2451

Ion Ratio Lower Upper

69 100

41 36.5 49.7 74.5#

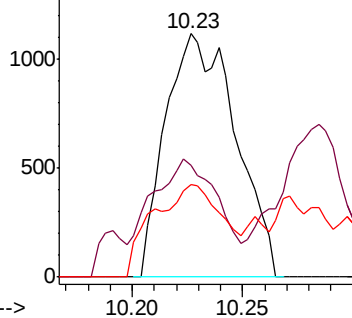
39 38.2 24.2 36.2#



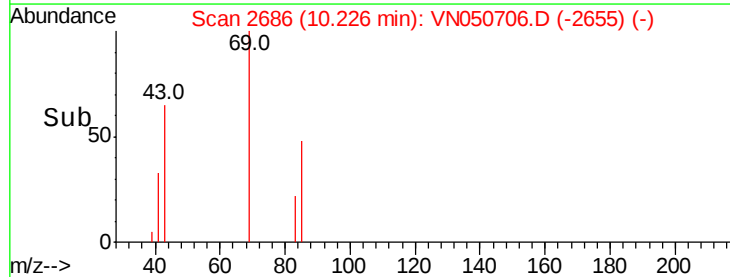
Abundance Ion 69.00 (68.70 to 69.70): VN050587.D (-2734) (-)

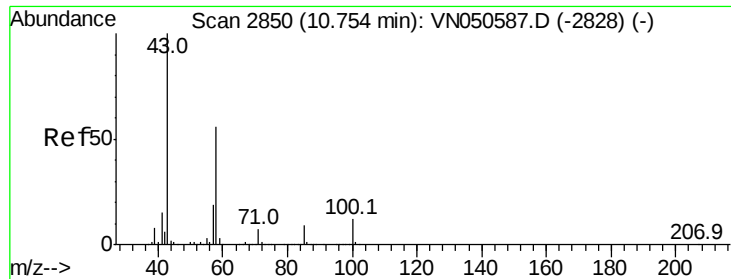
Ion 41.00 (40.70 to 41.70): VN050587.D (-2734) (-)

Ion 39.00 (38.70 to 39.70): VN050587.D (-2734) (-)



Time-->





#59

2-Hexanone

Concen: 3.725 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050706.D

Acq: 16 Aug 2018 17:10

Instrument :

MSVOA_N

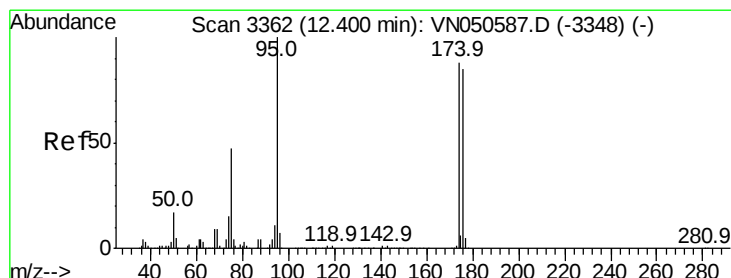
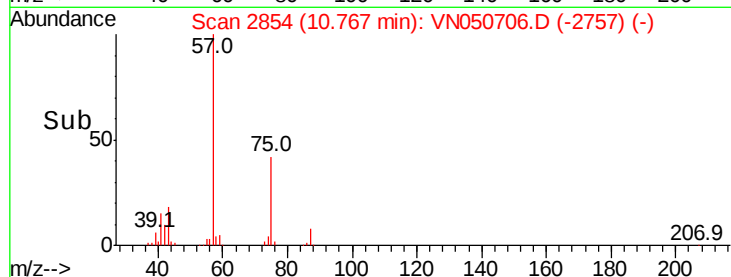
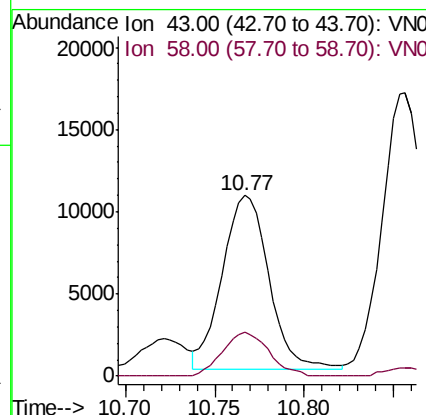
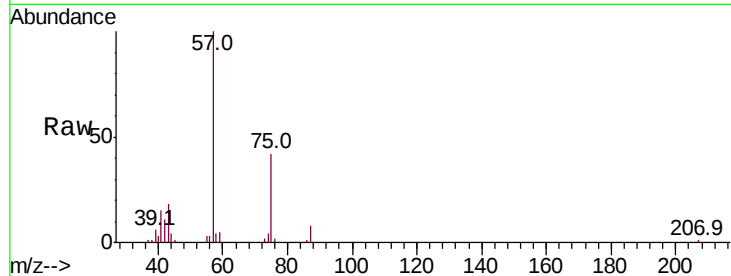
ClientSampleId :

Tot Ion: 43 Resp: 19303

Ion Ratio Lower Upper

43 100

58 25.0 28.0 84.0#



#62

4-Bromofluorobenzene

Concen: 36.504 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050706.D

Acq: 16 Aug 2018 17:10

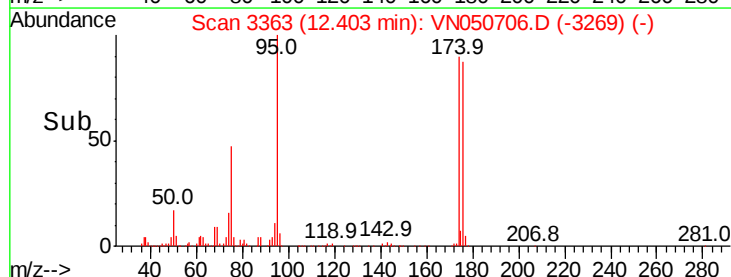
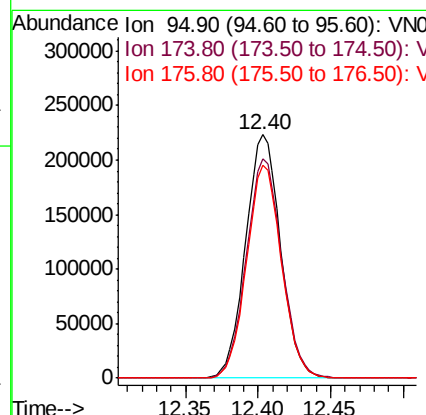
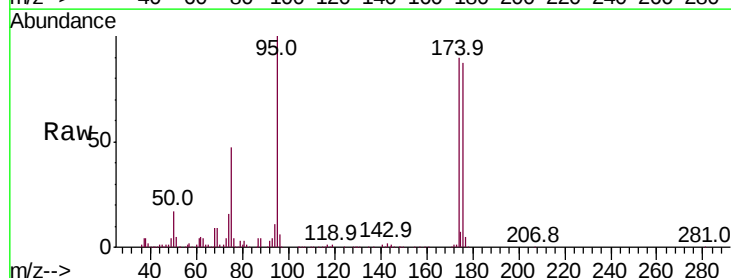
Tgt Ion: 95 Resp: 375092

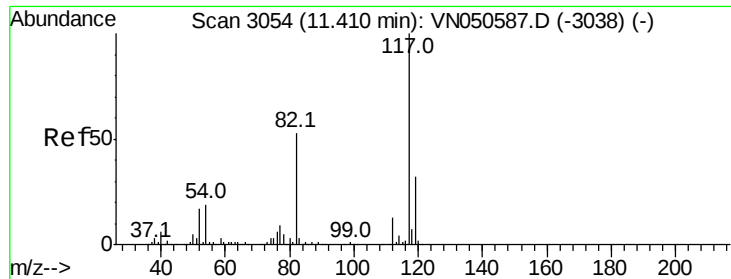
Ion Ratio Lower Upper

95 100

174 91.4 0.0 177.8

176 87.1 0.0 175.0

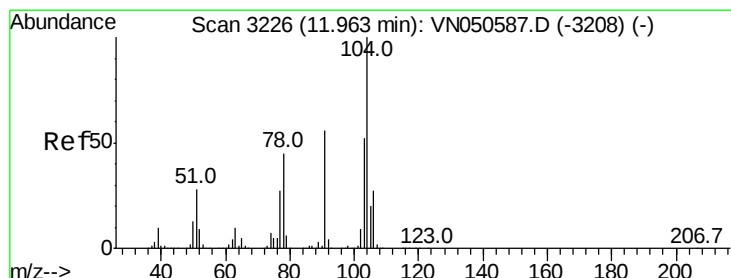
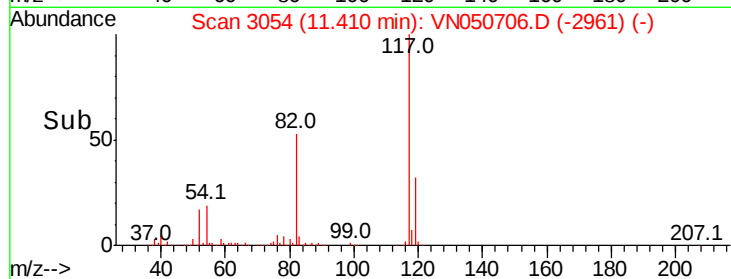
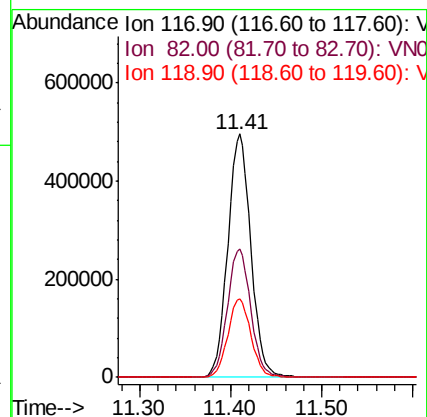
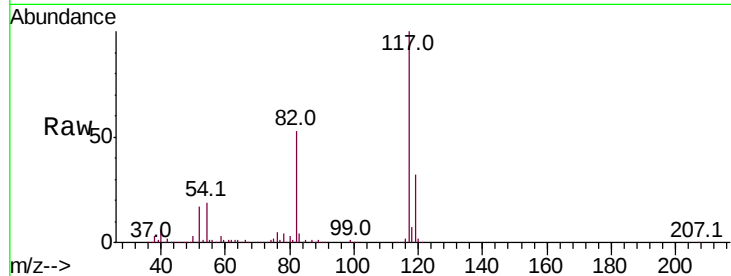




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050706.D
Acq: 16 Aug 2018 17:10

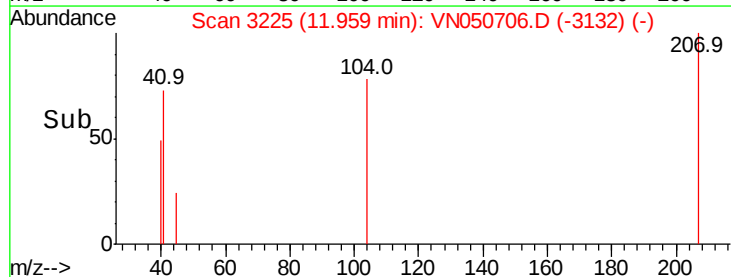
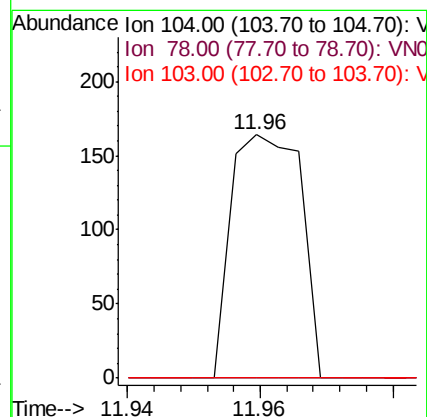
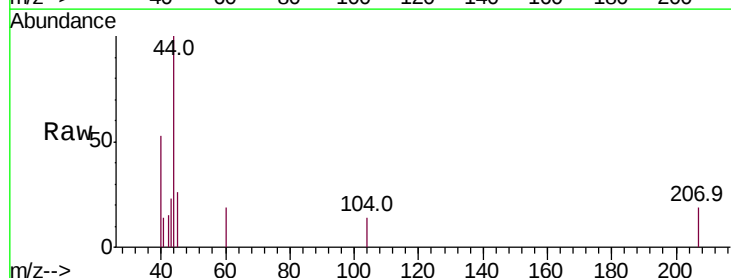
Instrument :
MSVOA_N
ClientSampled :

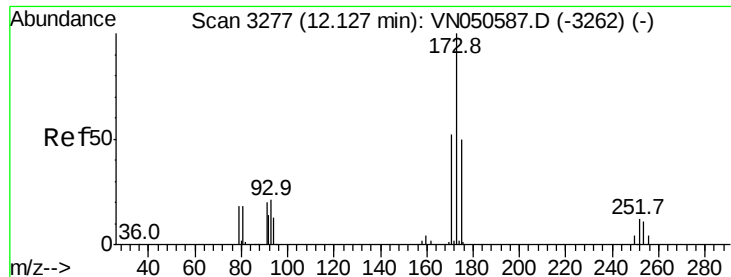
Tot Ion:117 Resp: 870978
Ion Ratio Lower Upper
117 100
82 52.9 42.4 63.6
119 32.2 25.8 38.8



#70
Styrene
Concen: 0.946 ug/l
RT: 11.96 min Scan# 3225
Delta R.T. -0.00 min
Lab File: VN050706.D
Acq: 16 Aug 2018 17:10

Tgt Ion:104 Resp: 120
Ion Ratio Lower Upper
104 100
78 0.0 39.1 58.7#
103 0.0 44.9 67.3#





#71

Bromoform

Concen: 0.655 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN050706.D

Acq: 16 Aug 2018 17:10

Instrument :

MSVOA_N

ClientSampleId :

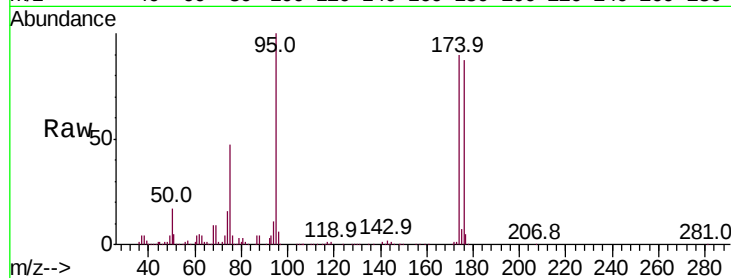
Tot Ion:173 Resp: 3527

Ion Ratio Lower Upper

173 100

175 586.6 24.4 73.2#

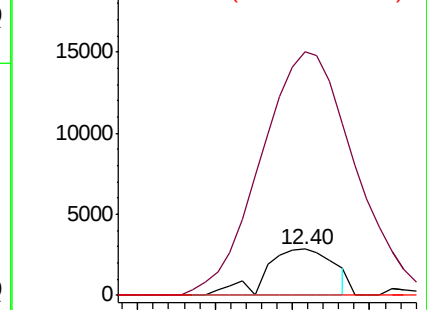
254 0.0 0.0 0.0



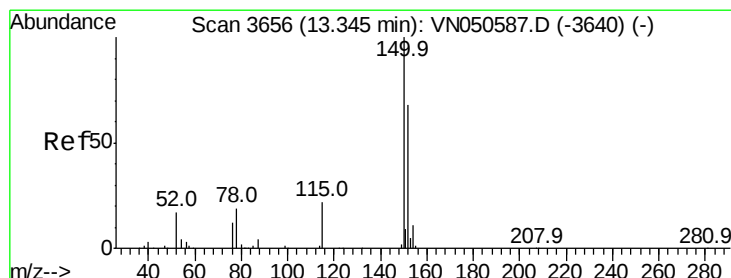
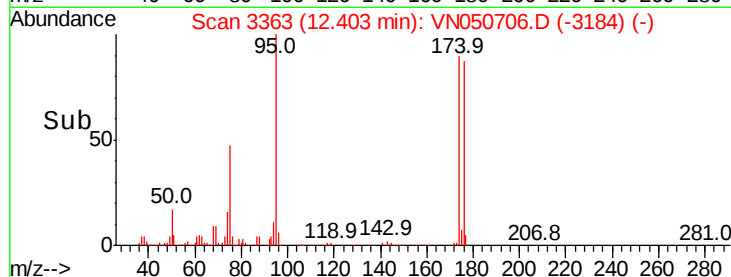
Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



Time--> 12.36 12.38 12.40 12.42



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050706.D

Acq: 16 Aug 2018 17:10

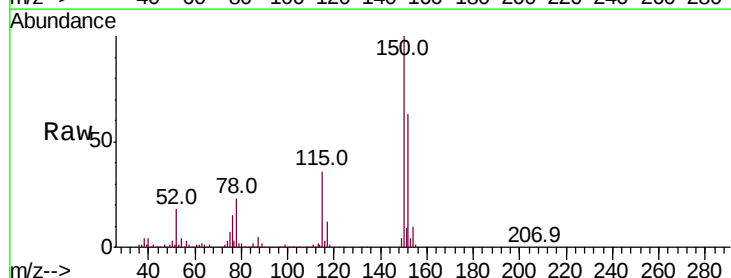
Tgt Ion:152 Resp: 303214

Ion Ratio Lower Upper

152 100

115 56.6 28.1 84.2

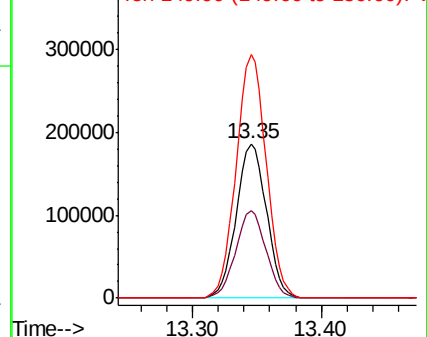
150 157.1 0.0 347.8



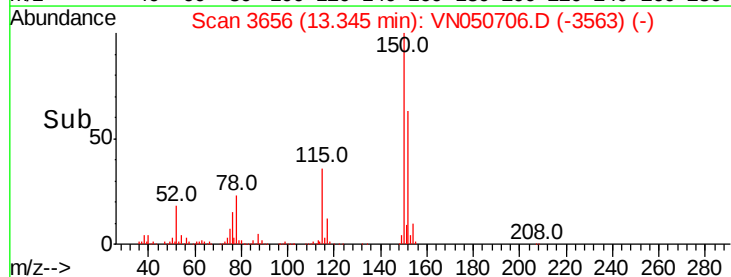
Abundance Ion 151.90 (151.60 to 152.60): V

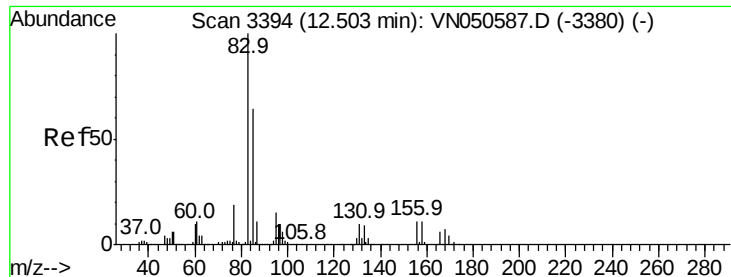
Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



Time--> 13.30 13.40





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3362

Delta R.T. -0.10 min

Lab File: VN050706.D

Acq: 16 Aug 2018 17:10

Instrument :

MSVOA_N

ClientSampleId :

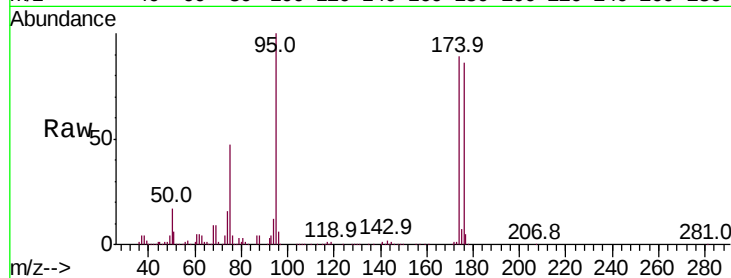
Tot Ion: 83 Resp: 169

Ion Ratio Lower Upper

83 100

131 313.0 5.3 15.9#

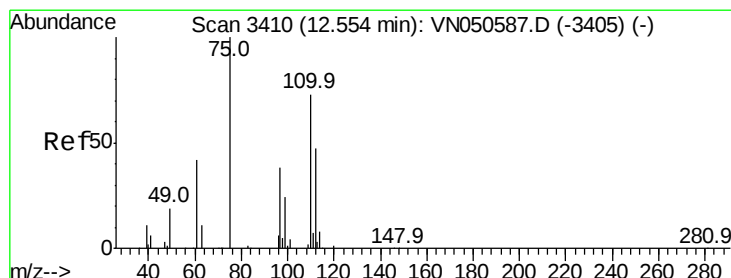
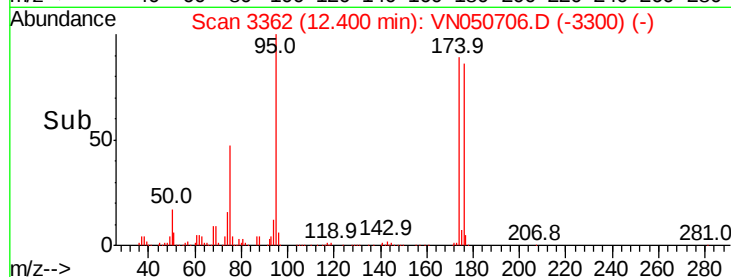
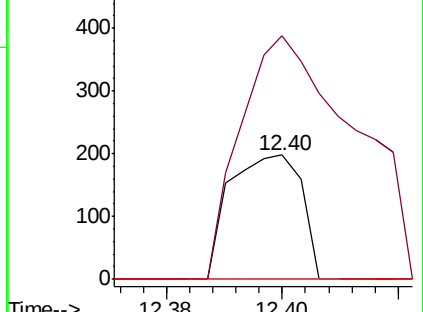
85 0.0 32.1 96.5#



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 35.868 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050706.D

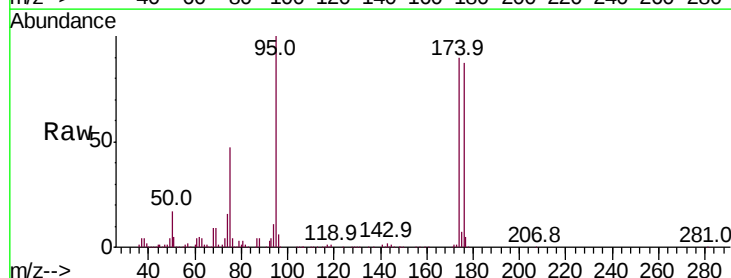
Acq: 16 Aug 2018 17:10

Tgt Ion: 75 Resp: 177137

Ion Ratio Lower Upper

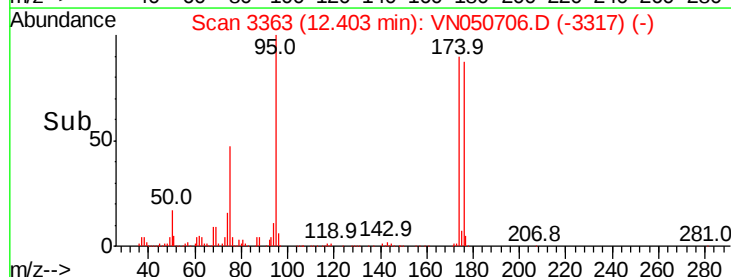
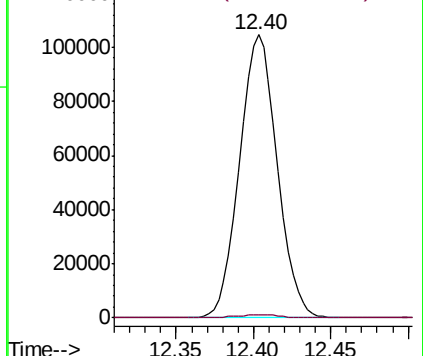
75 100

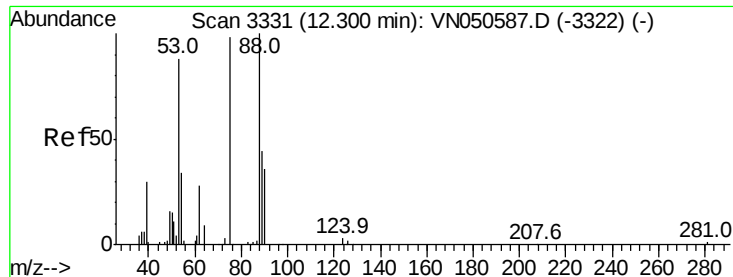
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 129.879 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050706.D

Acq: 16 Aug 2018 17:10

Instrument :

MSVOA_N

ClientSampleId :

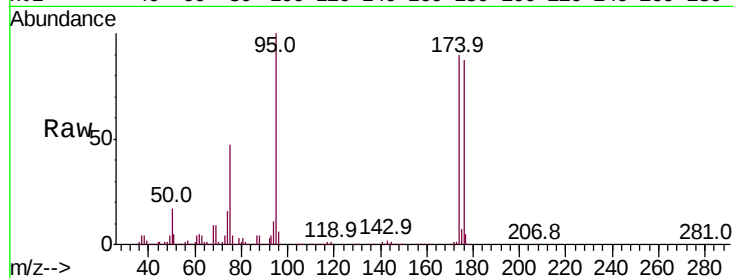
Tot Ion: 75 Resp: 177137

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): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

