

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081018\
 Data File : VN050530.D
 Acq On : 10 Aug 2018 20:19
 Operator : MD\SY
 Sample : PB111921ZHE#09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111921ZHE#09

Quant Time: Aug 10 23:20:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	632359	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1075288	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	926017	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	356935	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	441269	52.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.46%	
35) Dibromofluoromethane	7.59	113	406641	47.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.26%	
50) Toluene-d8	10.09	98	1469017	45.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.56%	
62) 4-Bromofluorobenzene	12.40	95	418386	37.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.68%	

Target Compounds

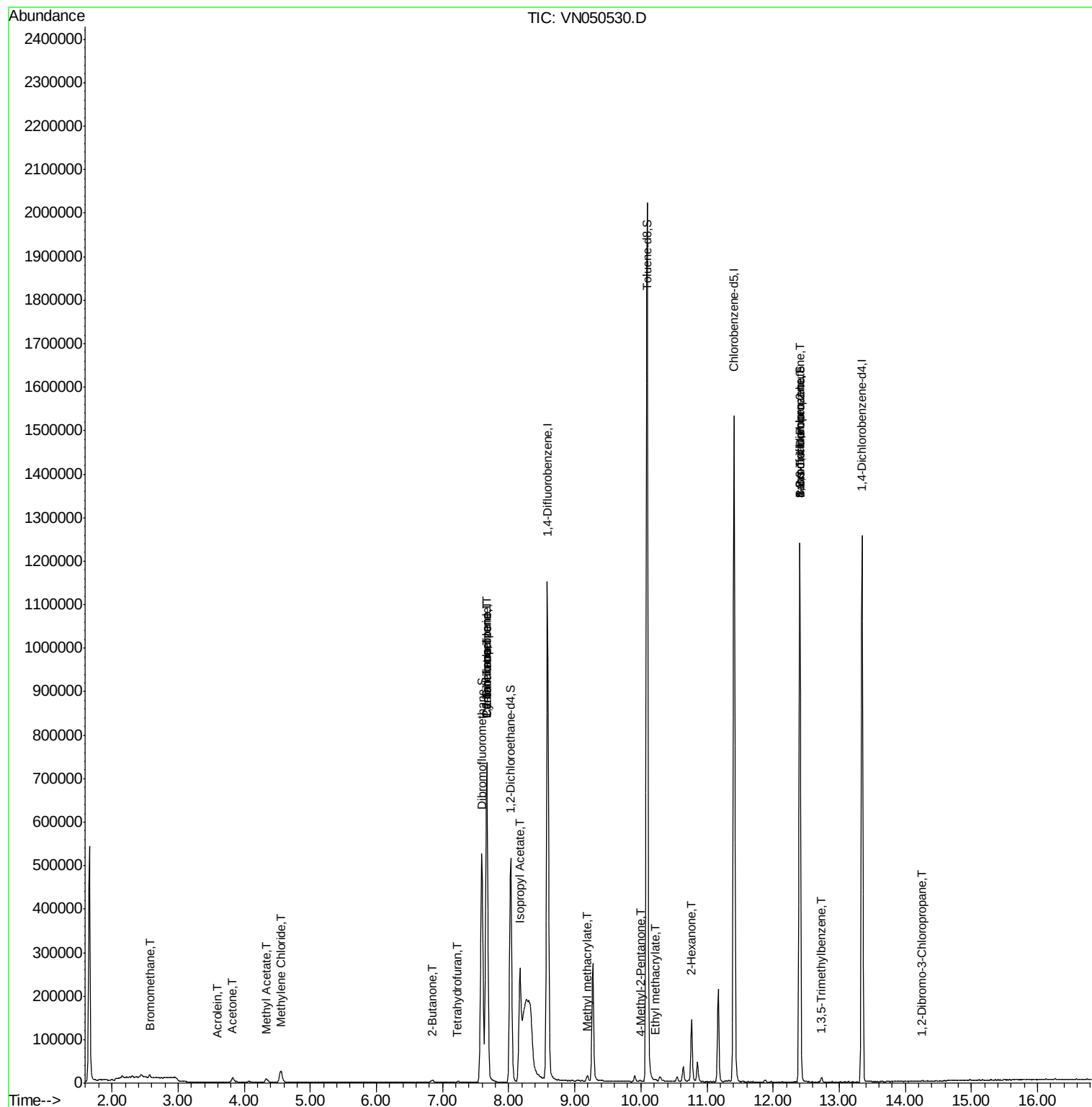
						Qvalue
3) Chloromethane	2.06	50	2554	Below Cal		97
5) Bromomethane	2.57	94	3452	0.95 ug/l	#	63
13) Acrolein	3.61	56	30	15.06 ug/l	#	15
16) Acetone	3.82	43	18716	7.08 ug/l		97
18) Methyl Acetate	4.34	43	15086	2.12 ug/l		96
20) Methylene Chloride	4.55	84	20373	1.13 ug/l		95
25) 2-Butanone	6.85	43	3871	0.92 ug/l	#	84
29) Tetrahydrofuran	7.21	42	694	0.31 ug/l	#	59
31) Cyclohexane	7.67	56	11866	0.35 ug/l	#	1
36) 1,1-Dichloropropene	7.67	75	45866	3.88 ug/l	#	48
38) Carbon Tetrachloride	7.67	117	58747	4.77 ug/l	#	16
43) Isopropyl Acetate	8.17	43	331149	22.55 ug/l		93
48) Methyl methacrylate	9.18	41	7920	1.08 ug/l	#	23
51) 4-Methyl-2-Pentanone	9.99	43	2703	0.26 ug/l	#	86
56) Ethyl methacrylate	10.23	69	2568	1.92 ug/l	#	68
59) 2-Hexanone	10.77	43	20826	2.82 ug/l	#	55
71) Bromoform	12.40	173	1243	0.20 ug/l	#	1
76) 1,2,3-Trichloropropane	12.40	75	202564	31.35 ug/l	#	100
80) 1,3,5-Trimethylbenzene	12.73	105	4767	0.22 ug/l		99
81) trans-1,4-Dichloro-2-buten	12.40	75	202564	110.16 ug/l	#	13
92) 1,2-Dibromo-3-Chloropropan	14.26	75	312	0.24 ug/l	#	1

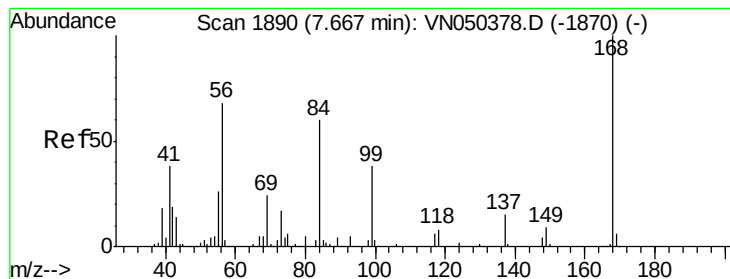
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Aug 07 05:22:15 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: VN050530.D

Acq: 10 Aug 2018 20:19

Instrument :

MSVOA_N

ClientSampleId :

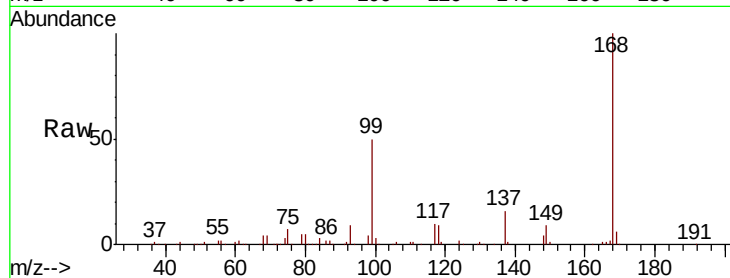
PB111921ZHE#09

Tot Ion:168 Resp: 632359

Ion Ratio Lower Upper

168 100

99 49.9 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): VN050530.D (-1797) (-)

Ion 98.90 (98.60 to 99.60): VN050530.D (-1797) (-)

7.67

250000

200000

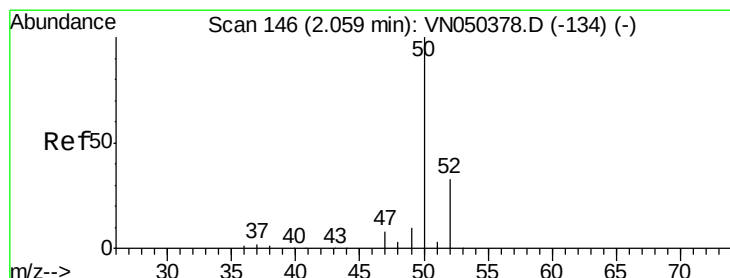
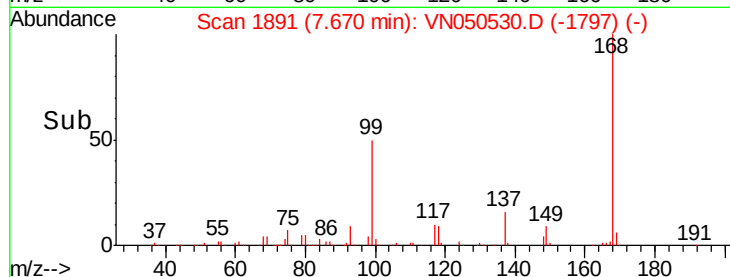
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050530.D

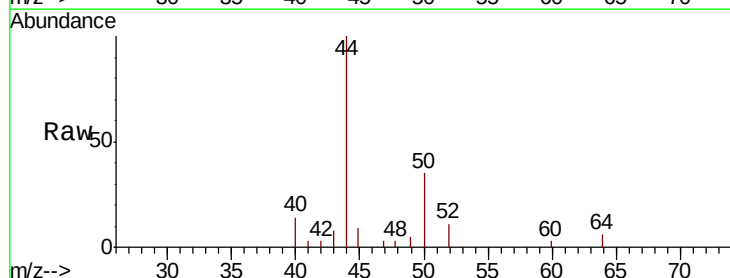
Acq: 10 Aug 2018 20:19

Tgt Ion: 50 Resp: 2554

Ion Ratio Lower Upper

50 100

52 31.0 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN050530.D (-53) (-)

Ion 51.90 (51.60 to 52.60): VN050530.D (-53) (-)

2.06

2000

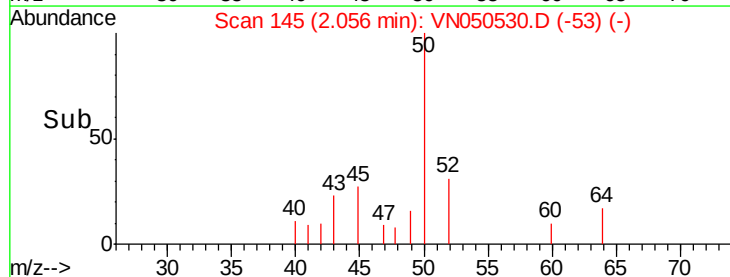
1500

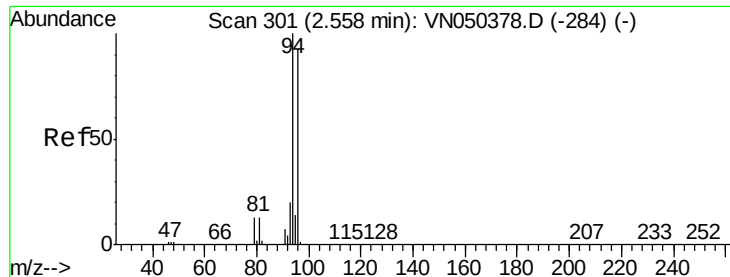
1000

500

0

Time-->





#5

Bromomethane

Concen: 0.95 ug/l

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN050530.D

Acq: 10 Aug 2018 20:19

Instrument :

MSVOA_N

ClientSampleId :

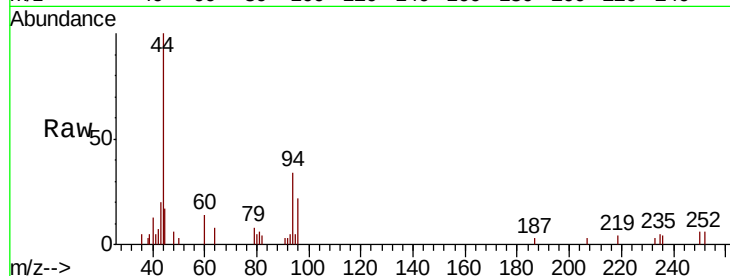
PB111921ZHE#09

Tot Ion: 94 Resp: 3452

Ion Ratio Lower Upper

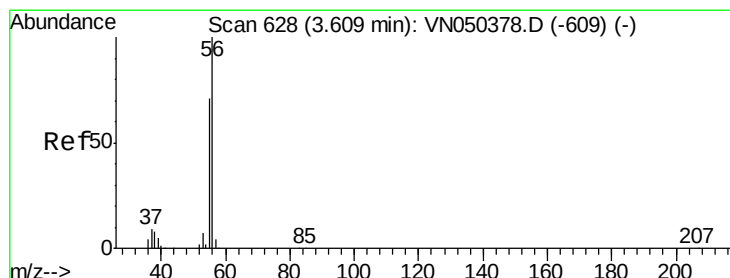
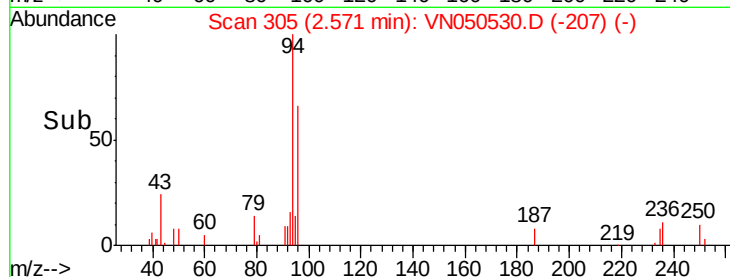
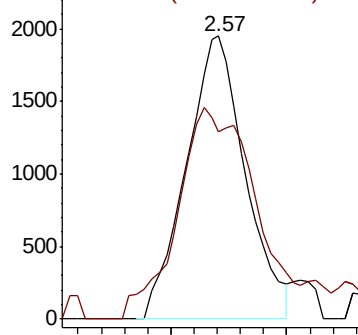
94 100

96 57.6 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#13

Acrolein

Concen: 15.06 ug/l

RT: 3.61 min Scan# 627

Delta R.T. -0.00 min

Lab File: VN050530.D

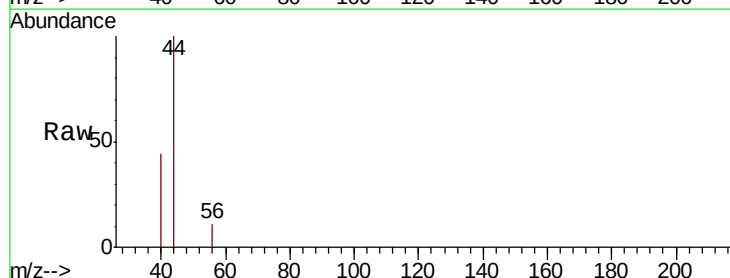
Acq: 10 Aug 2018 20:19

Tgt Ion: 56 Resp: 30

Ion Ratio Lower Upper

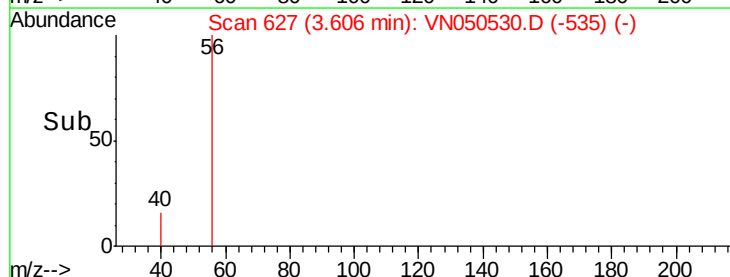
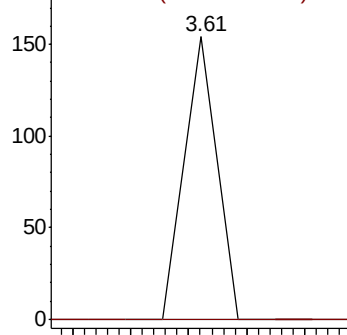
56 100

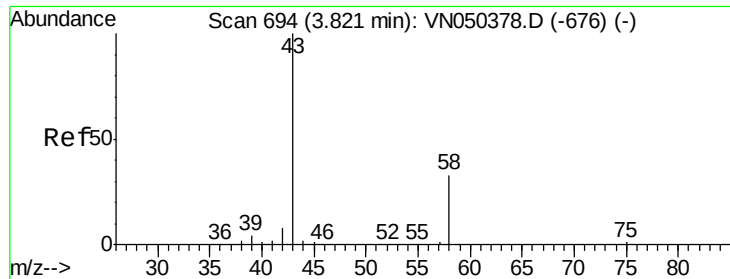
55 0.0 55.8 83.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 7.08 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050530.D

Acq: 10 Aug 2018 20:19

Instrument :

MSVOA_N

ClientSampleId :

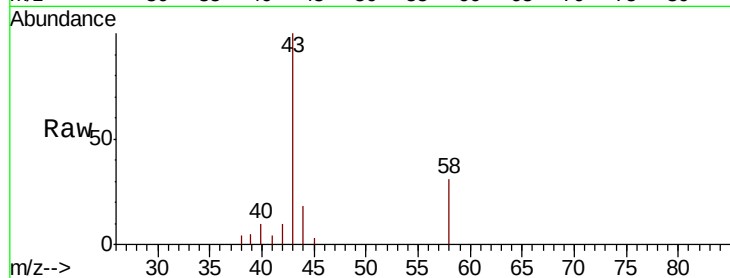
PB111921ZHE#09

Tot Ion: 43 Resp: 18716

Ion Ratio Lower Upper

43 100

58 30.6 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN050530.D (-676) (-)

Ion 58.00 (57.70 to 58.70): VN050530.D (-676) (-)

8000

6000

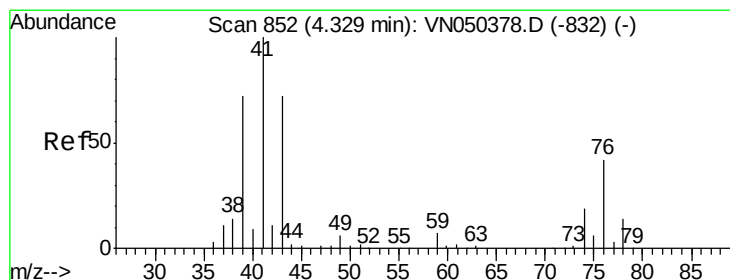
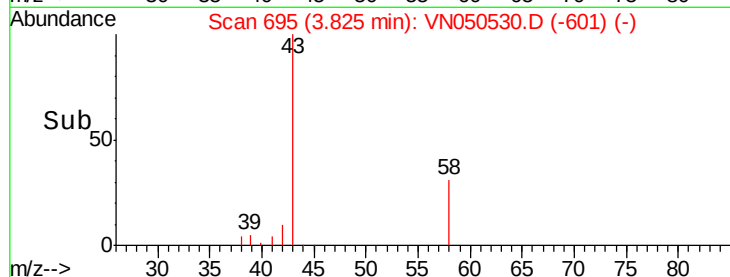
4000

2000

0

3.75 3.80 3.85 3.90

Time-->



#18

Methyl Acetate

Concen: 2.12 ug/l

RT: 4.34 min Scan# 855

Delta R.T. 0.01 min

Lab File: VN050530.D

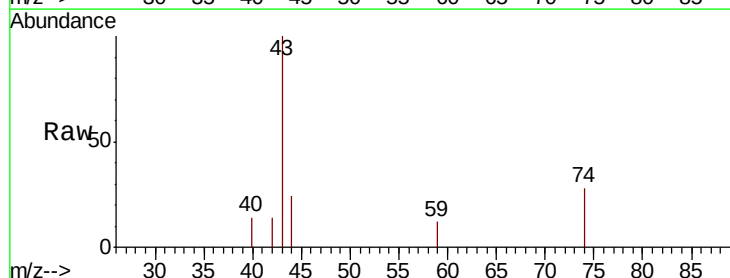
Acq: 10 Aug 2018 20:19

Tgt Ion: 43 Resp: 15086

Ion Ratio Lower Upper

43 100

74 25.9 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN050530.D (-832) (-)

Ion 74.00 (73.70 to 74.70): VN050530.D (-832) (-)

6000

5000

4000

3000

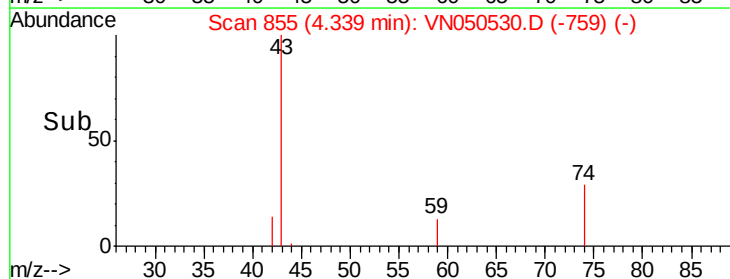
2000

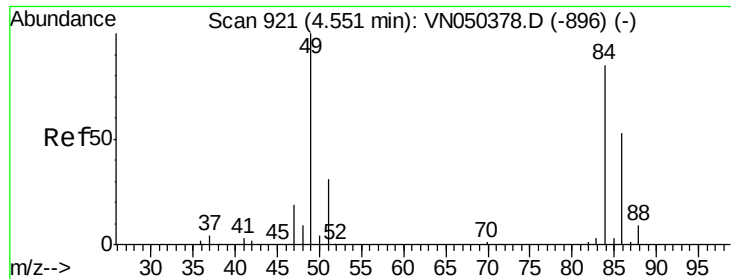
1000

0

4.25 4.30 4.35 4.40

Time-->

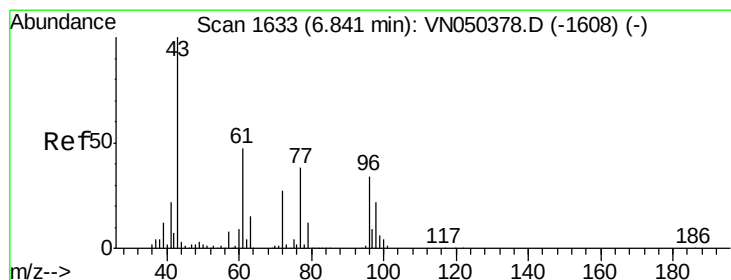
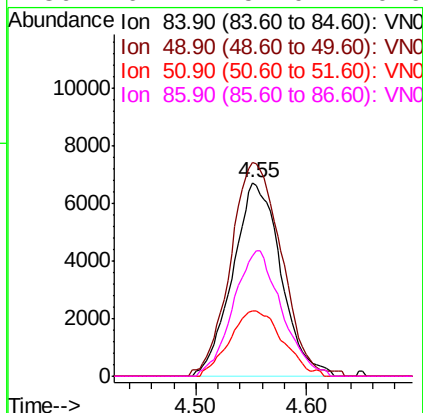
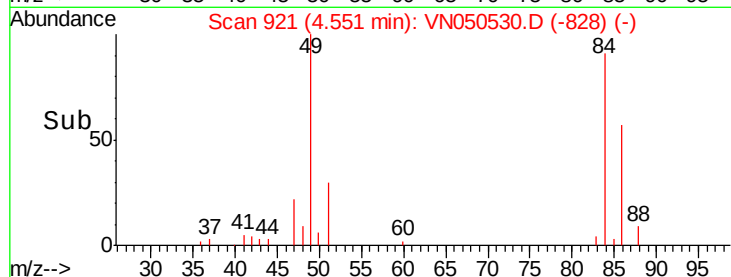
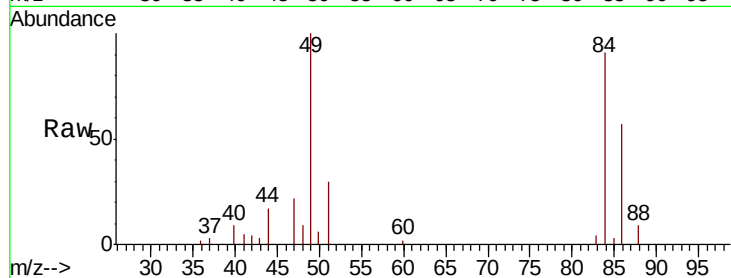




#20
Methvlene Chloride
Concen: 1.13 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050530.D
Acq: 10 Aug 2018 20:19

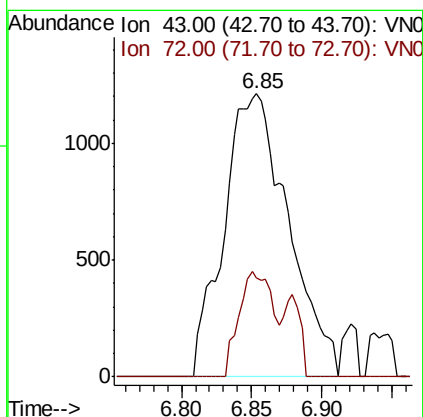
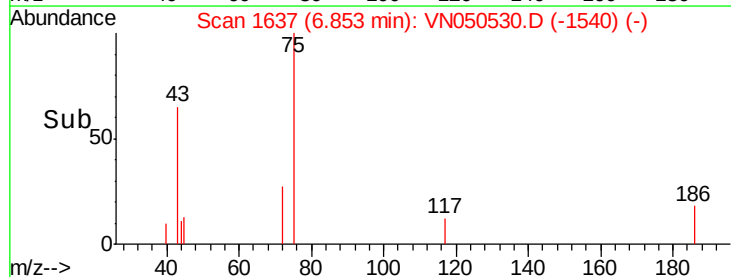
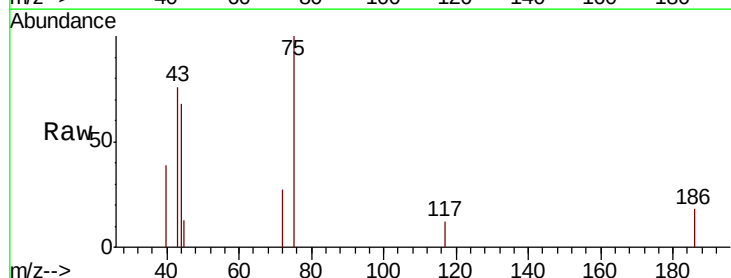
Instrument :
MSVOA_N
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PB111921ZHE#09

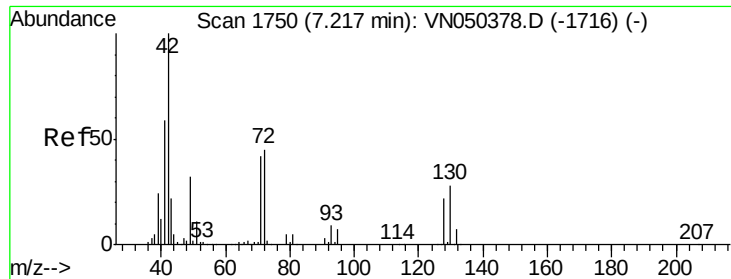
Tot Ion:	84	Resp:	20373
Ion	Ratio	Lower	Upper
84	100		
49	110.3	94.8	142.2
51	33.5	28.3	42.5
86	62.4	51.0	76.6



#25
2-Butanone
Concen: 0.92 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VN050530.D
Acq: 10 Aug 2018 20:19

Tgt Ion:	43	Resp:	3871
Ion	Ratio	Lower	Upper
43	100		
72	35.1	21.5	32.3#

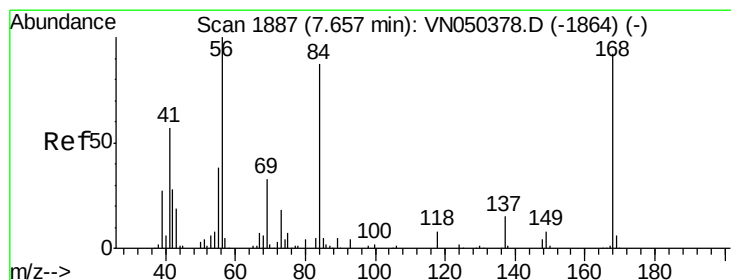
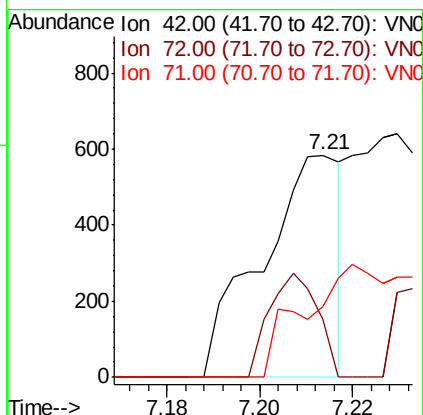
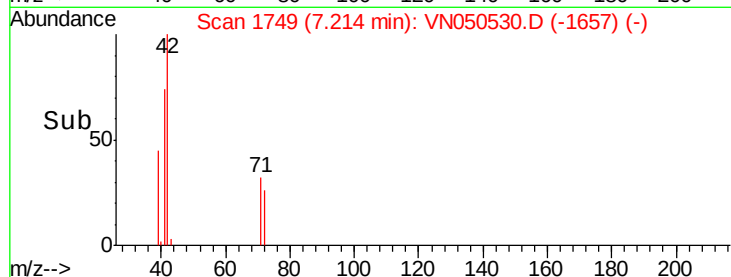
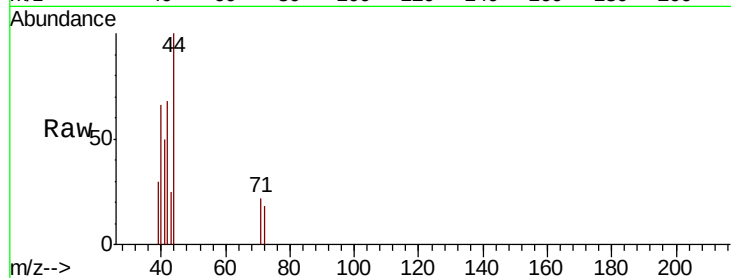




#29
Tetrahydrofuran
Concen: 0.31 ug/l
RT: 7.21 min Scan# 1749
Delta R.T. -0.00 min
Lab File: VN050530.D
Acq: 10 Aug 2018 20:19

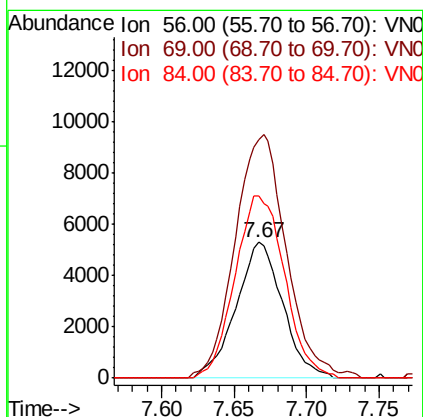
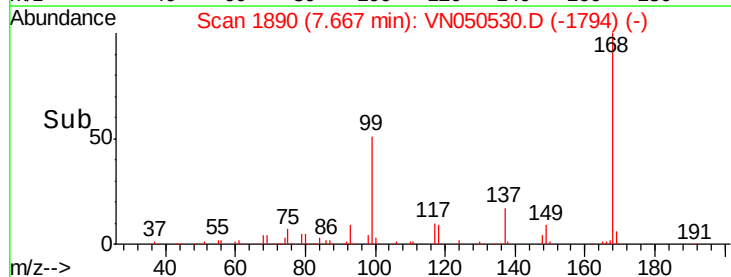
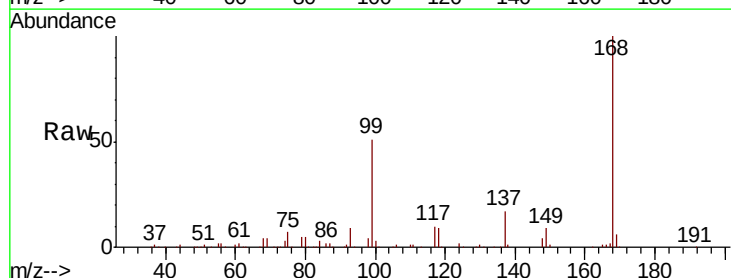
Instrument :
MSVOA_N
ClientSampleId :
PB111921ZHE#09

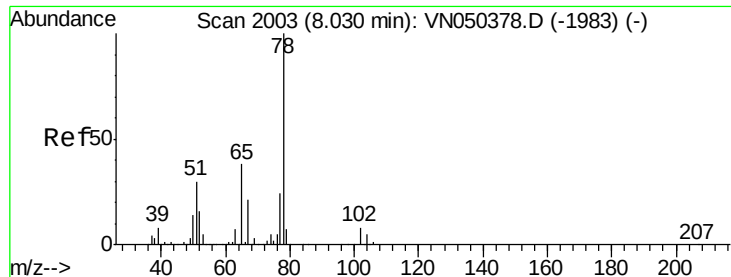
Tot Ion: 42 Resp: 694
Ion Ratio Lower Upper
42 100
72 28.7 35.9 53.9#
71 79.5 33.7 50.5#



#31
Cyclohexane
Concen: 0.35 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050530.D
Acq: 10 Aug 2018 20:19

Tgt Ion: 56 Resp: 11866
Ion Ratio Lower Upper
56 100
69 175.7 26.2 39.4#
84 134.2 67.4 101.0#

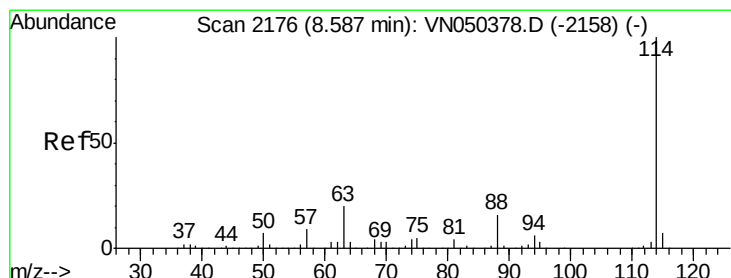
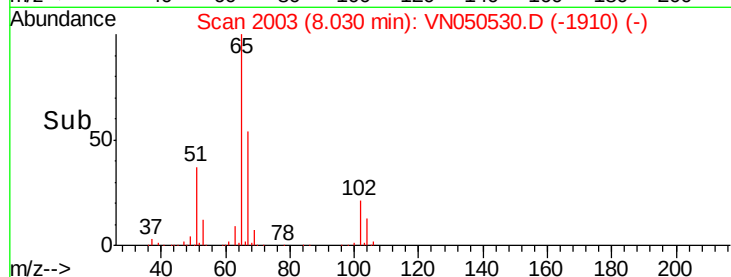
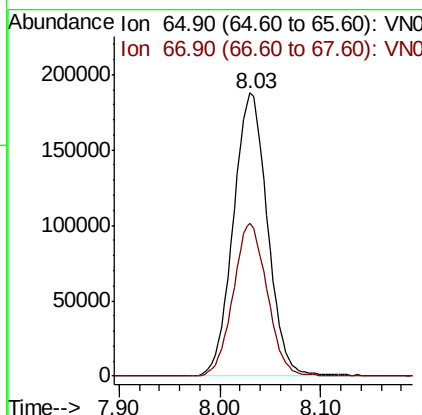
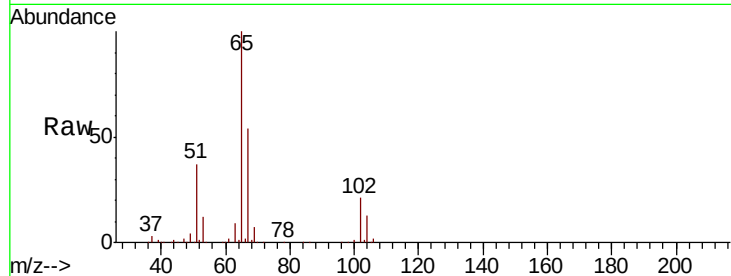




#33
 1,2-Dichloroethane-d4
 Concen: 52.23 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. -0.00 min
 Lab File: VN050530.D
 Acq: 10 Aug 2018 20:19

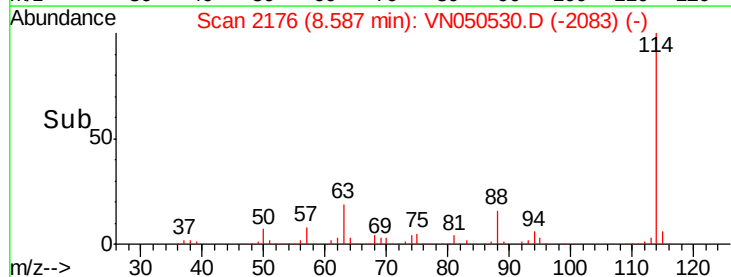
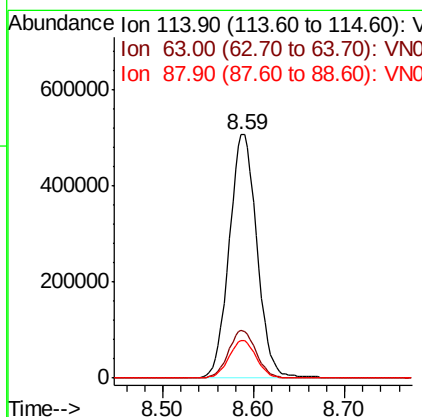
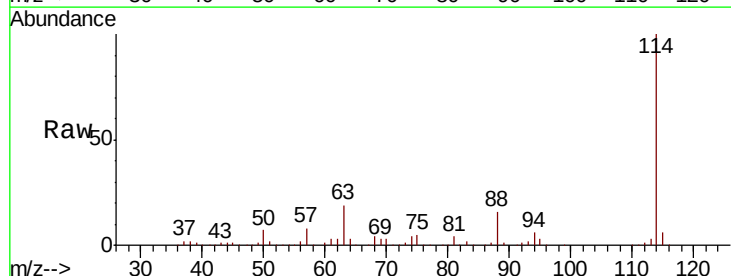
Instrument :
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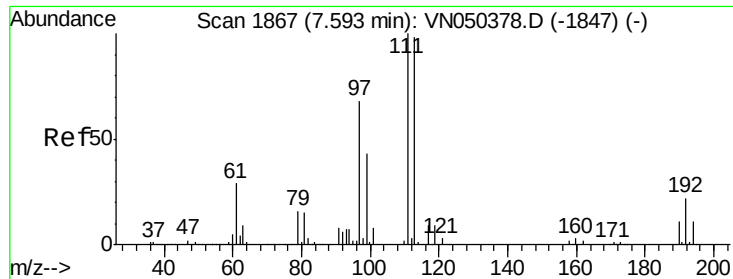
Tot Ion: 65 Resp: 441269
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050530.D
 Acq: 10 Aug 2018 20:19

Tgt Ion: 114 Resp: 1075288
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 40.0
 88 15.5 0.0 31.2

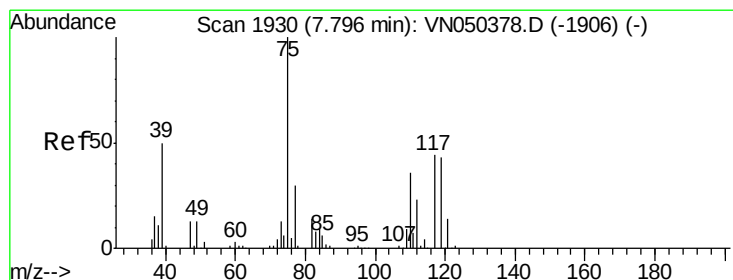
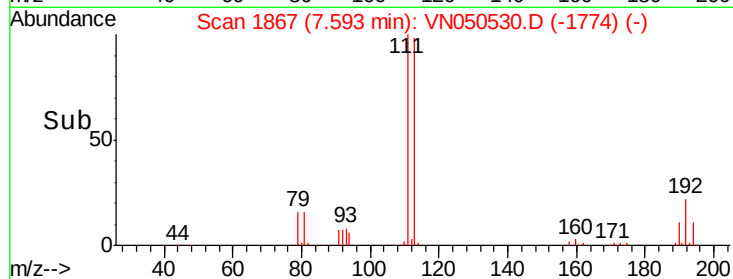
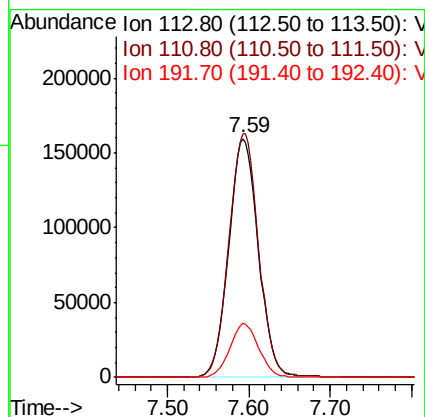
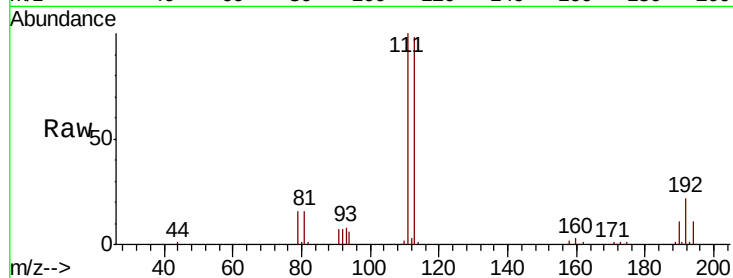




#35
 Dibromofluoromethane
 Concen: 47.13 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050530.D
 Acq: 10 Aug 2018 20:19

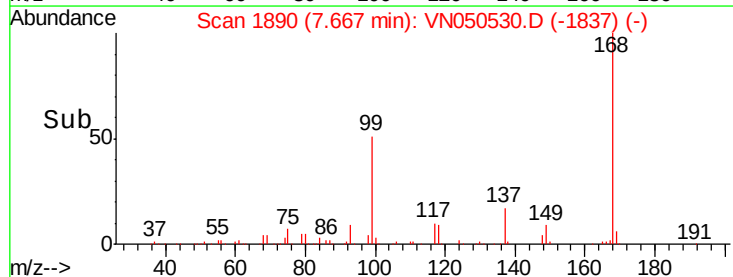
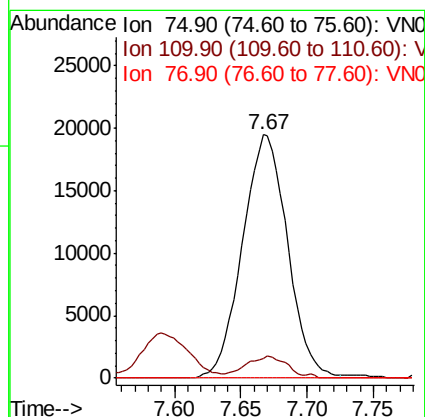
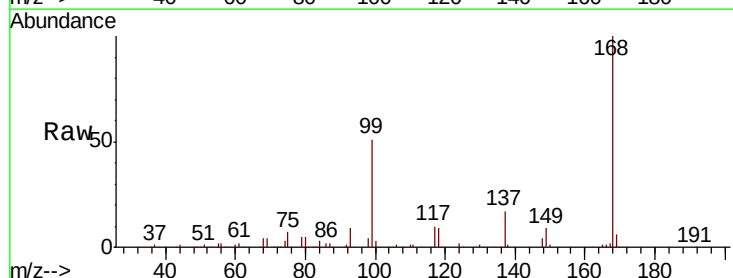
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111921ZHE#09

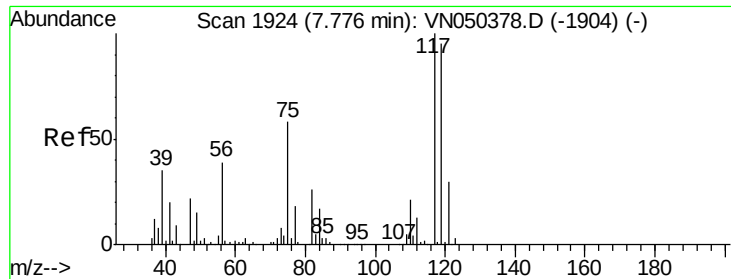
Tot Ion:113 Resp: 406641
 Ion Ratio Lower Upper
 113 100
 111 102.7 80.7 121.1
 192 22.0 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.88 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050530.D
 Acq: 10 Aug 2018 20:19

Tgt Ion: 75 Resp: 45866
 Ion Ratio Lower Upper
 75 100
 110 8.4 18.4 55.2#
 77 0.0 25.3 37.9#

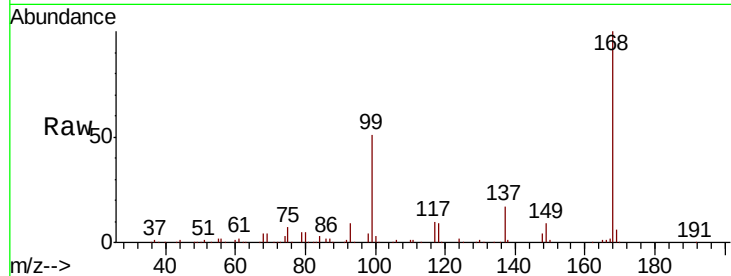




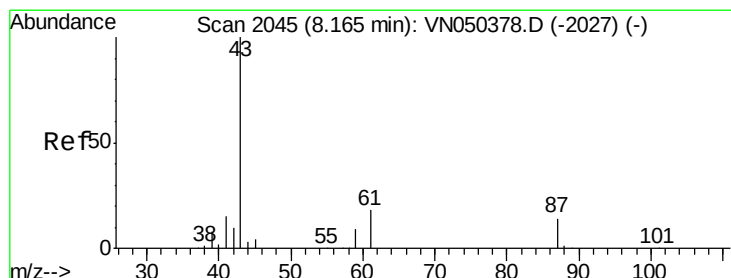
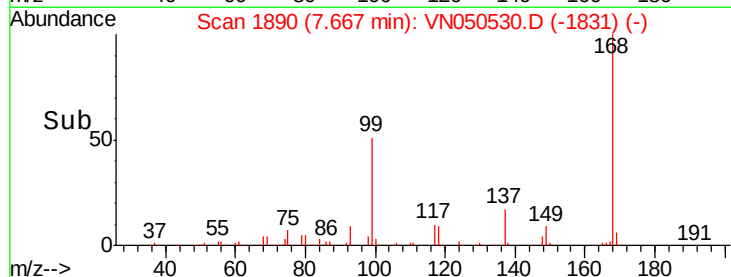
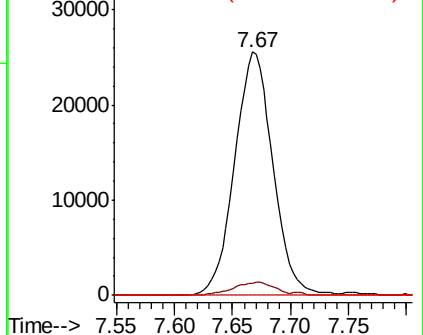
#38
Carbon Tetrachloride
Concen: 4.77 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN050530.D
Acq: 10 Aug 2018 20:19

Instrument :
MSVOA_N
ClientSampleId :
PB111921ZHE#09

Tot Ion:117 Resp: 58747
Ion Ratio Lower Upper
117 100
119 4.9 77.4 116.0#
121 0.0 23.9 35.9#

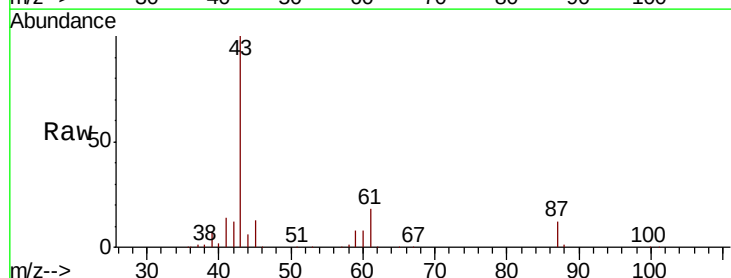


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

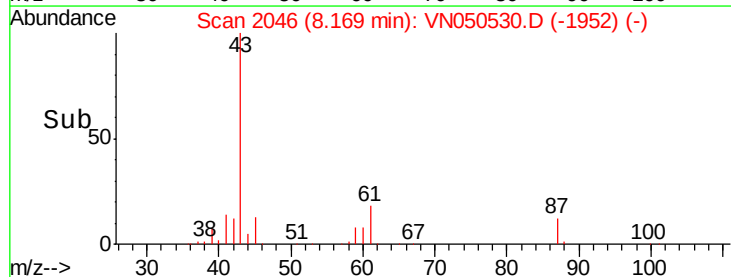
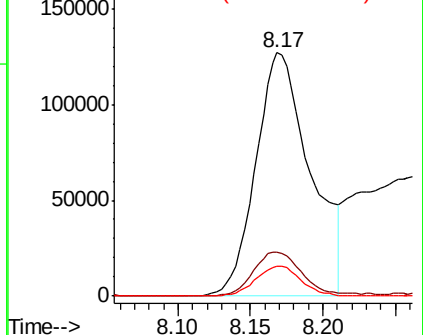


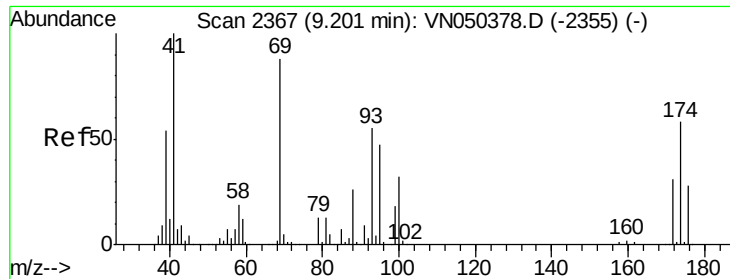
#43
Isopropyl Acetate
Concen: 22.55 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. 0.00 min
Lab File: VN050530.D
Acq: 10 Aug 2018 20:19

Tgt Ion: 43 Resp: 331149
Ion Ratio Lower Upper
43 100
61 16.6 15.8 23.6
87 10.4 10.3 15.5



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

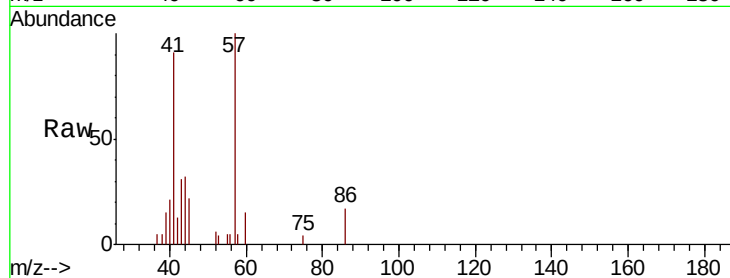




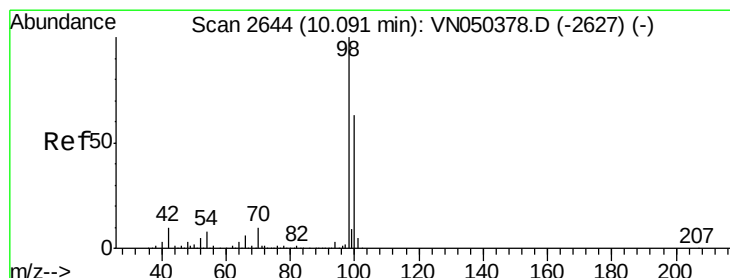
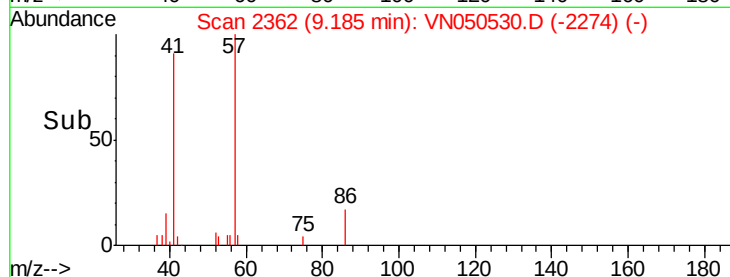
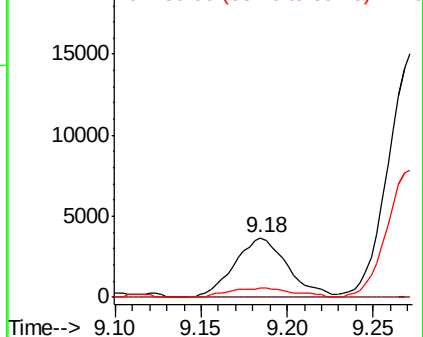
#48
Methyl methacrylate
Concen: 1.08 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN050530.D
Acq: 10 Aug 2018 20:19

Instrument :
MSVOA_N
ClientSampleId :
PB111921ZHE#09

Tot Ion: 41 Resp: 7920
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 19.0 43.9 65.9#

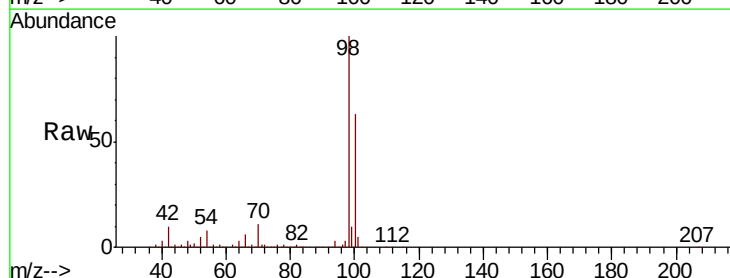


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

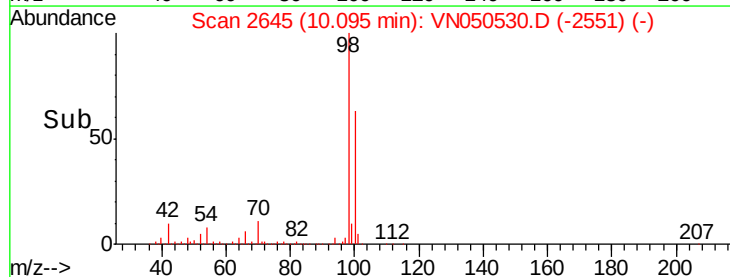
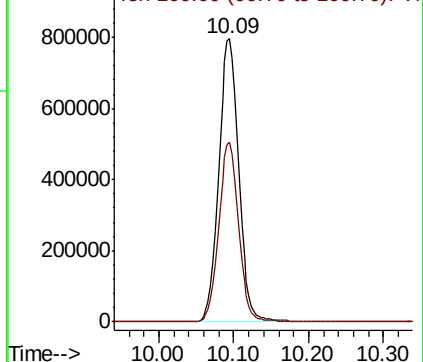


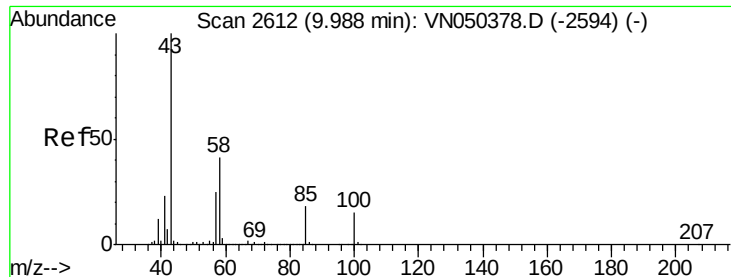
#50
Toluene-d8
Concen: 45.28 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050530.D
Acq: 10 Aug 2018 20:19

Tgt Ion: 98 Resp: 1469017
Ion Ratio Lower Upper
98 100
100 62.9 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.26 ug/l

RT: 9.99 min Scan# 2613

Delta R.T. 0.00 min

Lab File: VN050530.D

Acq: 10 Aug 2018 20:19

Instrument :

MSVOA_N

ClientSampleId :

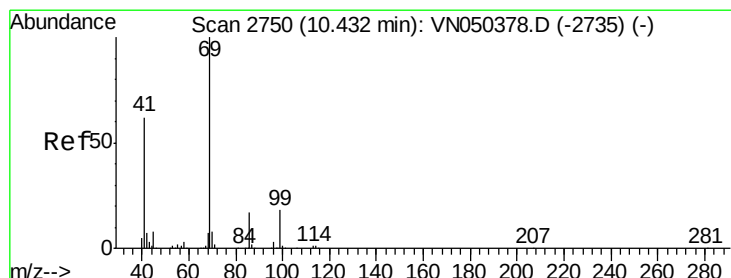
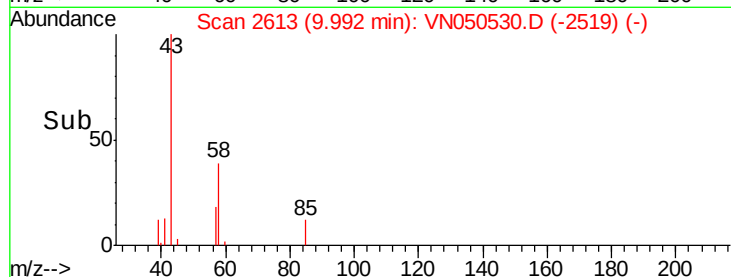
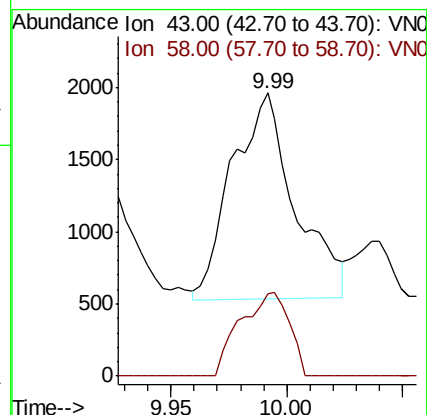
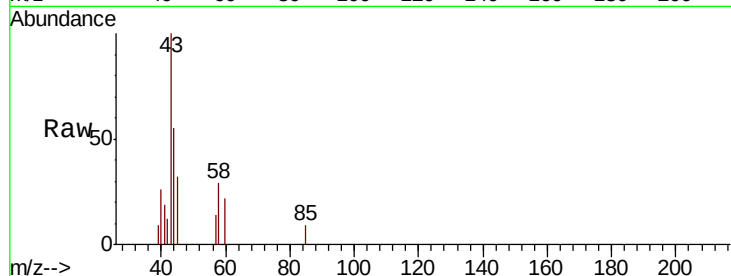
PB111921ZHE#09

Tot Ion: 43 Resp: 2703

Ion Ratio Lower Upper

43 100

58 31.3 31.9 47.9#



#56

Ethyl methacrylate

Concen: 1.92 ug/l

RT: 10.23 min Scan# 2686

Delta R.T. -0.21 min

Lab File: VN050530.D

Acq: 10 Aug 2018 20:19

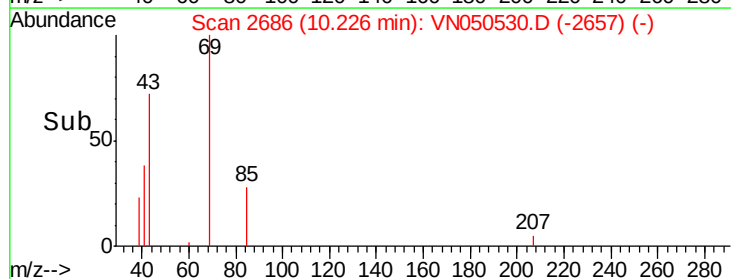
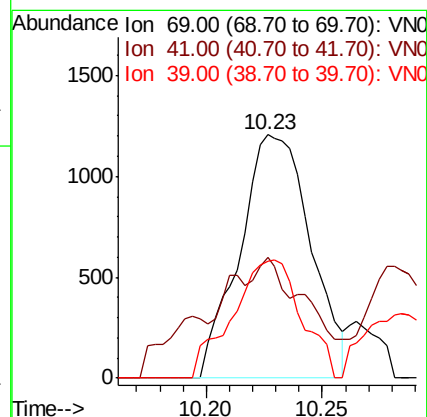
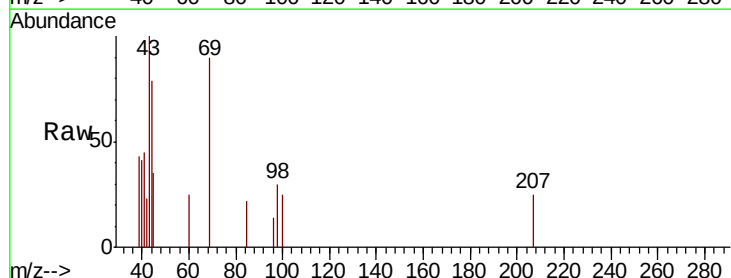
Tgt Ion: 69 Resp: 2568

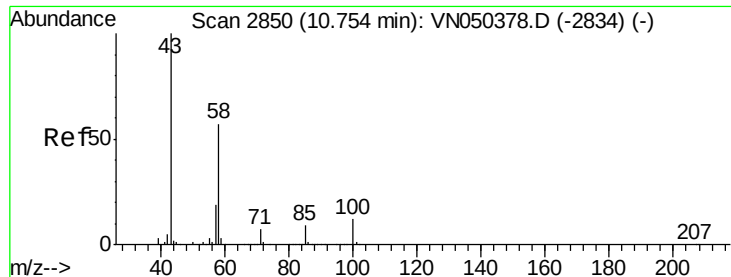
Ion Ratio Lower Upper

69 100

41 35.2 51.0 76.4#

39 47.1 26.6 40.0#





#59

2-Hexanone

Concen: 2.82 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050530.D

Acq: 10 Aug 2018 20:19

Instrument :

MSVOA_N

ClientSampleId :

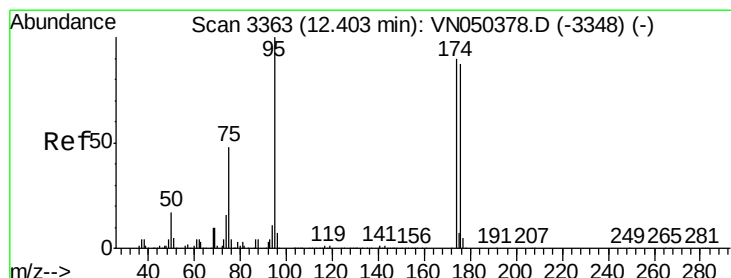
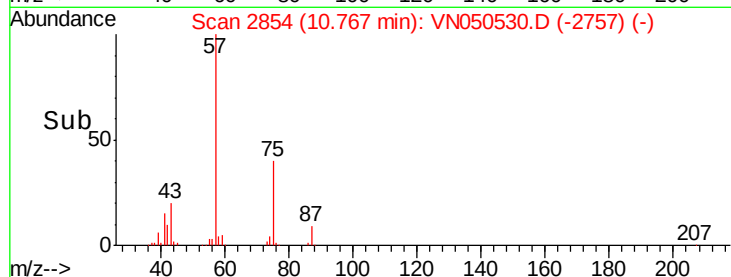
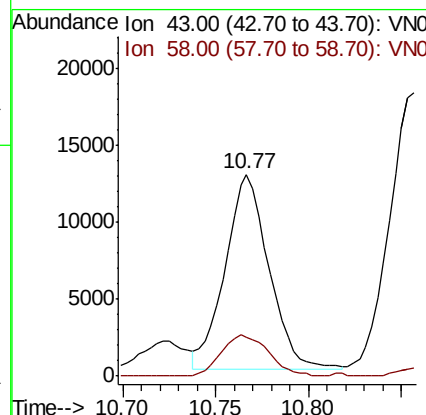
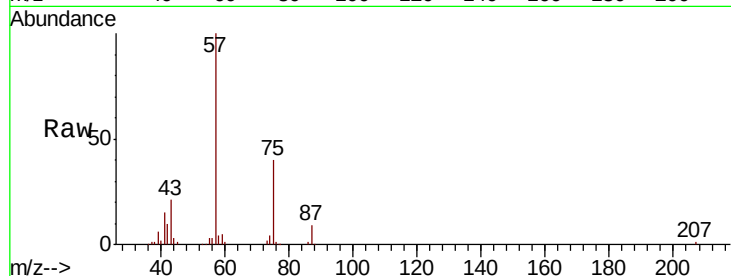
PB111921ZHE#09

Tot Ion: 43 Resp: 20826

Ion Ratio Lower Upper

43 100

58 22.8 27.6 82.7#



#62

4-Bromofluorobenzene

Concen: 37.84 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN050530.D

Acq: 10 Aug 2018 20:19

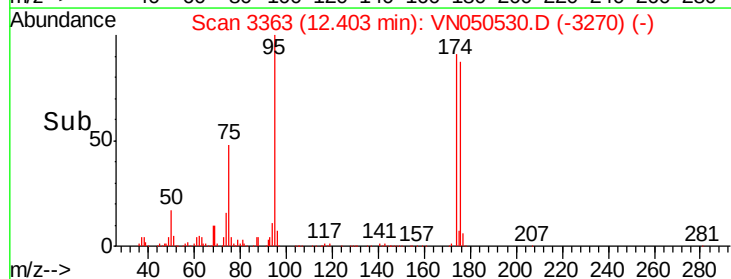
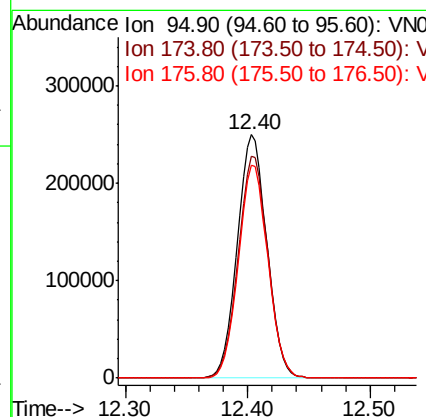
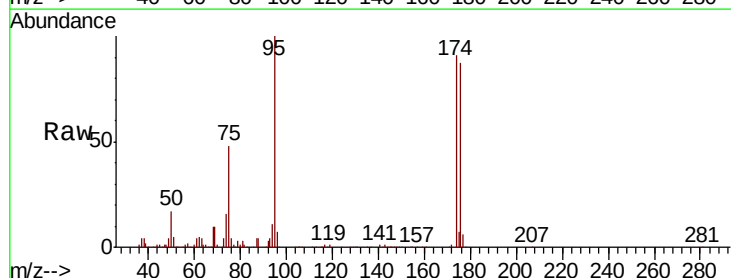
Tgt Ion: 95 Resp: 418386

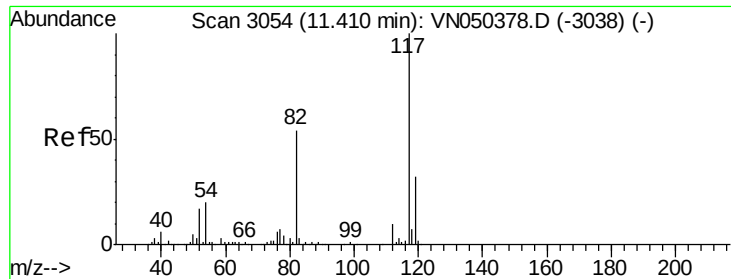
Ion Ratio Lower Upper

95 100

174 92.0 0.0 178.2

176 87.5 0.0 173.4

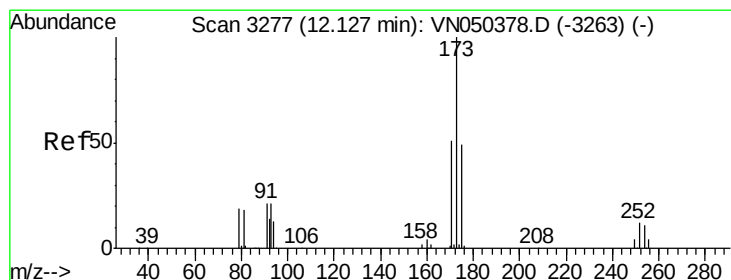
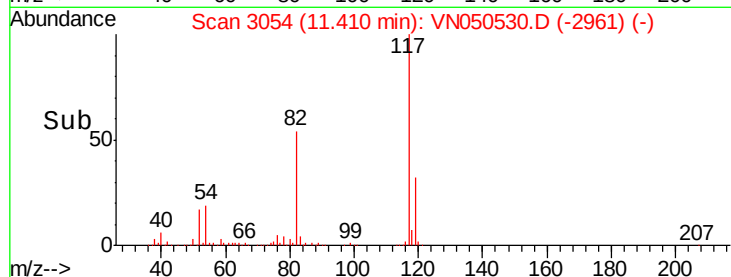
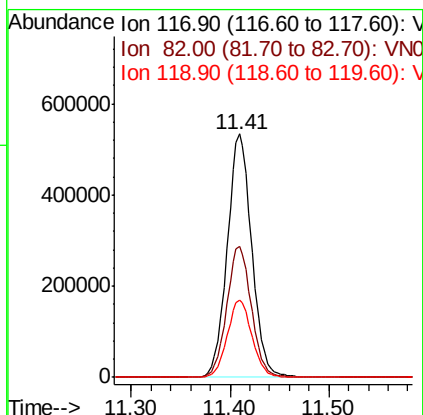
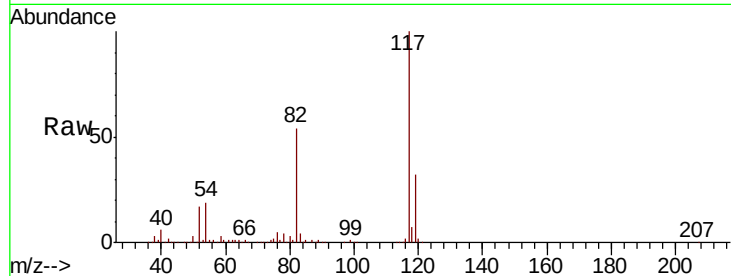




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050530.D
Acq: 10 Aug 2018 20:19

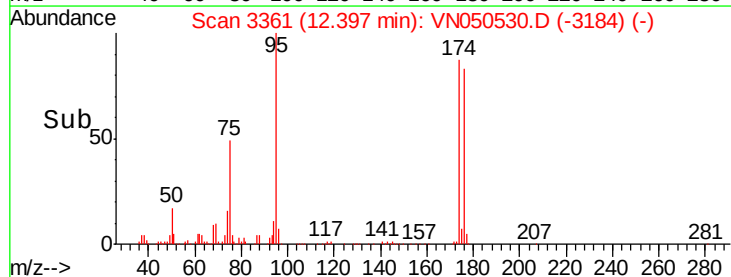
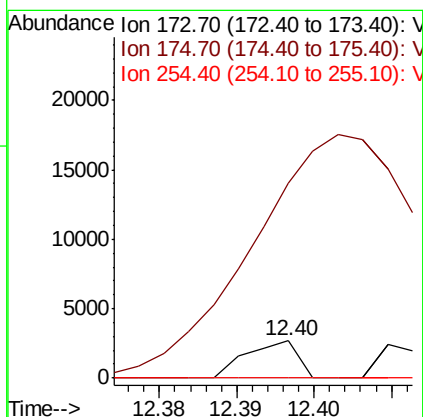
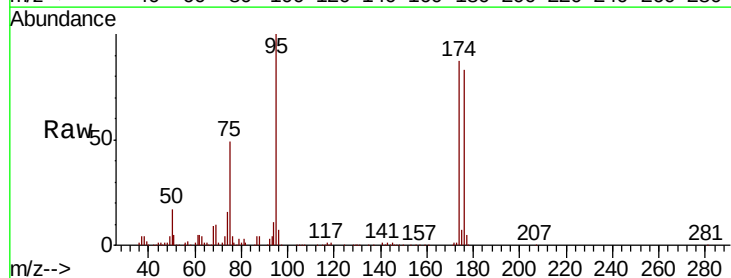
Instrument :
MSVOA_N
ClientSampleId :
PB111921ZHE#09

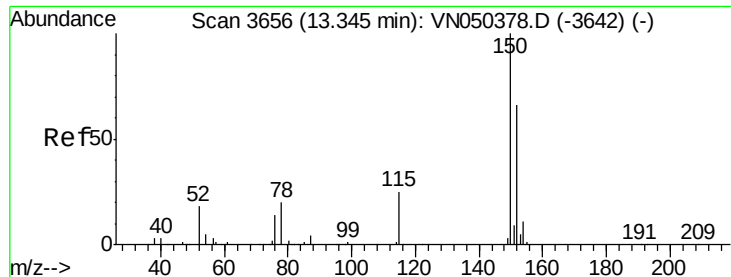
Tot Ion:117 Resp: 926017
Ion Ratio Lower Upper
117 100
82 54.1 43.7 65.5
119 31.8 26.1 39.1



#71
Bromoform
Concen: 0.20 ug/l
RT: 12.40 min Scan# 3361
Delta R.T. 0.27 min
Lab File: VN050530.D
Acq: 10 Aug 2018 20:19

Tgt Ion:173 Resp: 1243
Ion Ratio Lower Upper
173 100
175 1906.2 24.1 72.2#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN050530.D

Acq: 10 Aug 2018 20:19

Instrument :

MSVOA_N

ClientSampleId :

PB111921ZHE#09

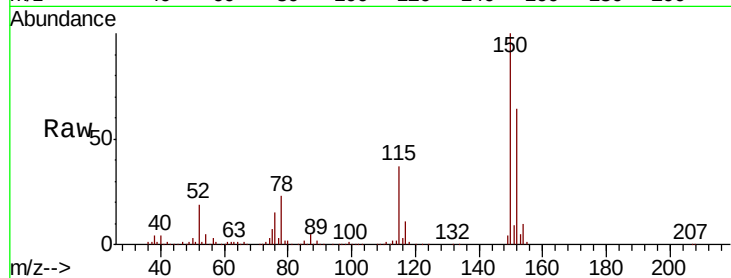
Tot Ion:152 Resp: 356935

Ion Ratio Lower Upper

152 100

115 56.3 27.8 83.3

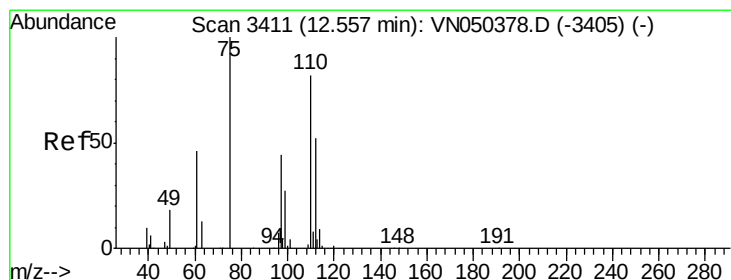
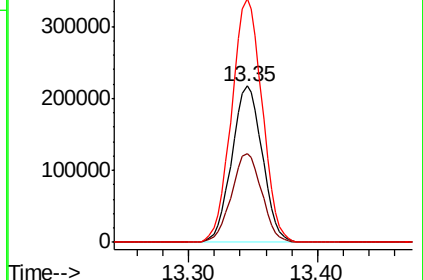
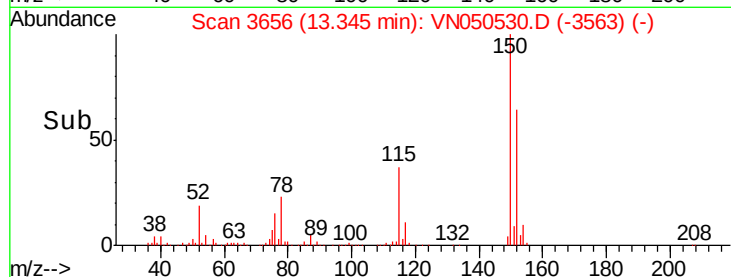
150 155.9 0.0 348.6



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



#76

1,2,3-Trichloropropane

Concen: 31.35 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050530.D

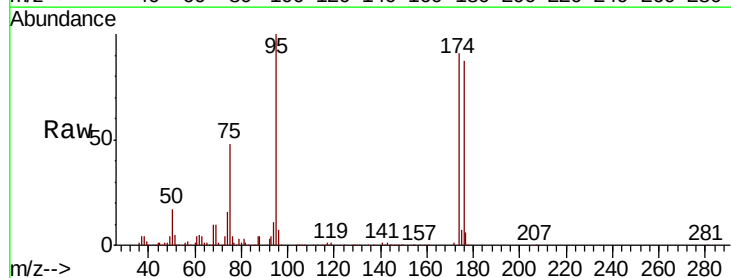
Acq: 10 Aug 2018 20:19

Tgt Ion: 75 Resp: 202564

Ion Ratio Lower Upper

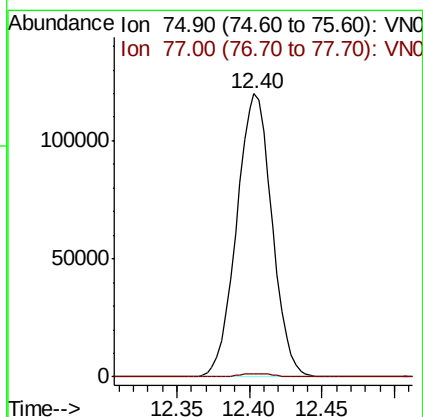
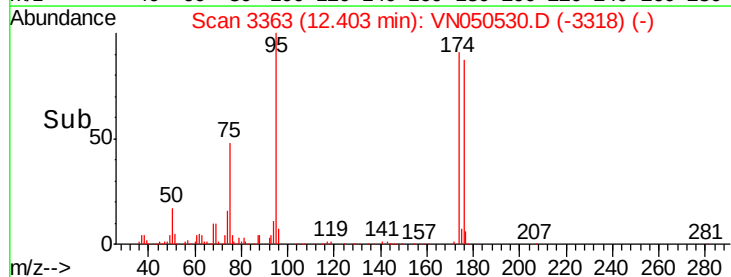
75 100

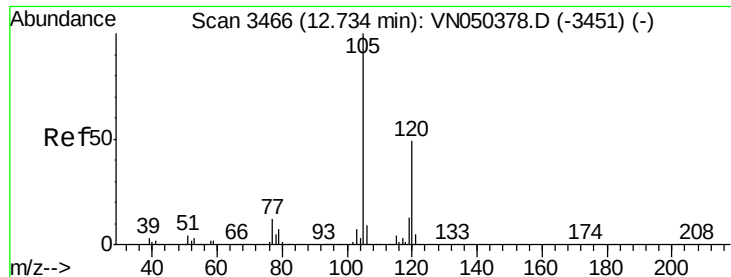
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.22 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. -0.00 min

Lab File: VN050530.D

Acq: 10 Aug 2018 20:19

Instrument :

MSVOA_N

ClientSampleId :

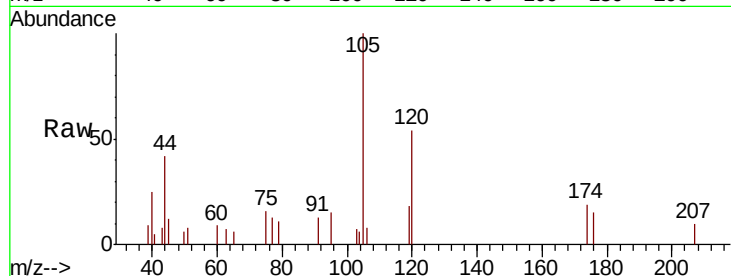
PB111921ZHE#09

Tot Ion:105 Resp: 4767

Ion Ratio Lower Upper

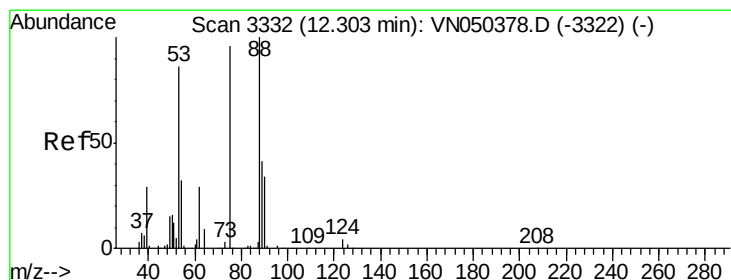
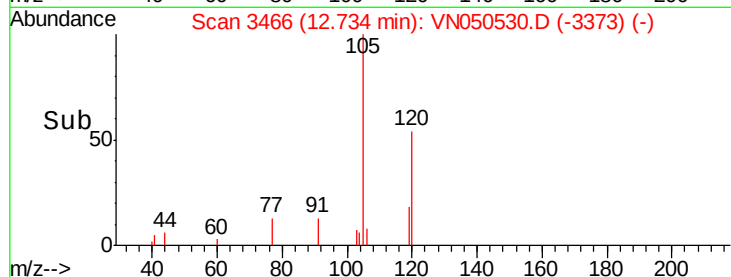
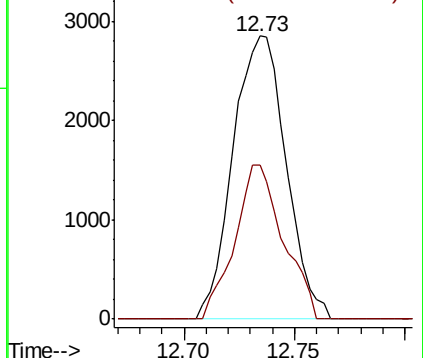
105 100

120 49.6 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 110.16 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050530.D

Acq: 10 Aug 2018 20:19

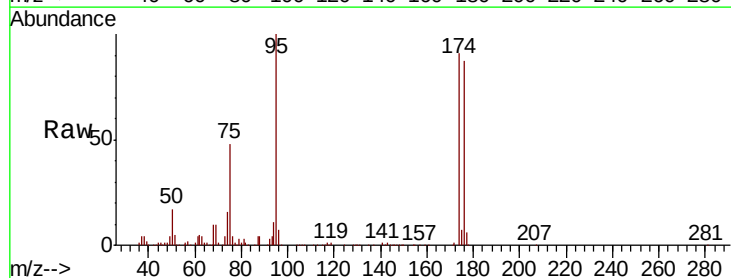
Tgt Ion: 75 Resp: 202564

Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

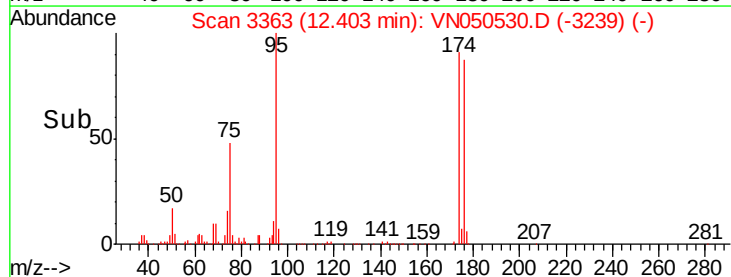
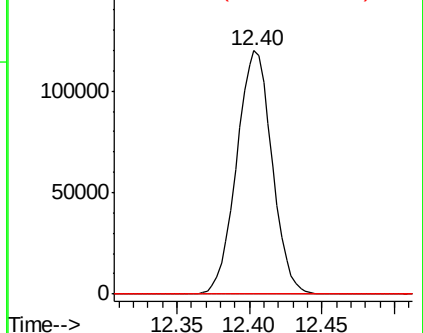
89 0.0 36.0 54.0#

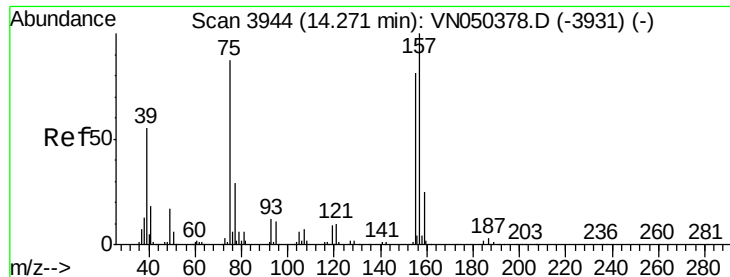


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.24 ug/l

RT: 14.26 min Scan# 3939

Delta R.T. -0.02 min

Lab File: VN050530.D

Acq: 10 Aug 2018 20:19

Instrument :

MSVOA_N

ClientSampleId :

PB111921ZHE#09

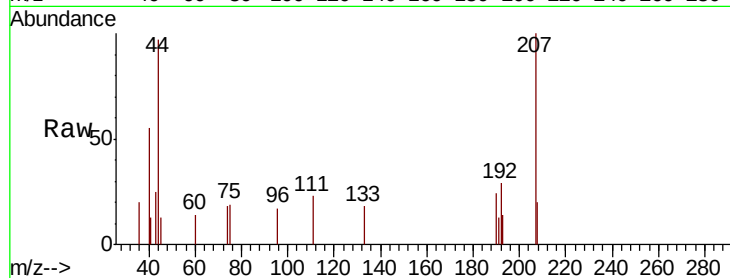
Tot Ion: 75 Resp: 312

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

157 0.0 57.2 171.6#



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

