

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081018\
 Data File : VN050521.D
 Acq On : 10 Aug 2018 16:36
 Operator : MD\SY
 Sample : PB111921ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111921ZHE#02

Quant Time: Aug 10 23:17:28 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	690425	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1144203	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	986579	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	394684	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	473753	51.36	ug/l	0.00
Spiked Amount			Recovery	=	102.72%	
35) Dibromofluoromethane	7.59	113	435895	47.48	ug/l	0.00
Spiked Amount			Recovery	=	94.96%	
50) Toluene-d8	10.09	98	1557596	45.12	ug/l	0.00
Spiked Amount			Recovery	=	90.24%	
62) 4-Bromofluorobenzene	12.40	95	452782	38.49	ug/l	0.00
Spiked Amount			Recovery	=	76.98%	

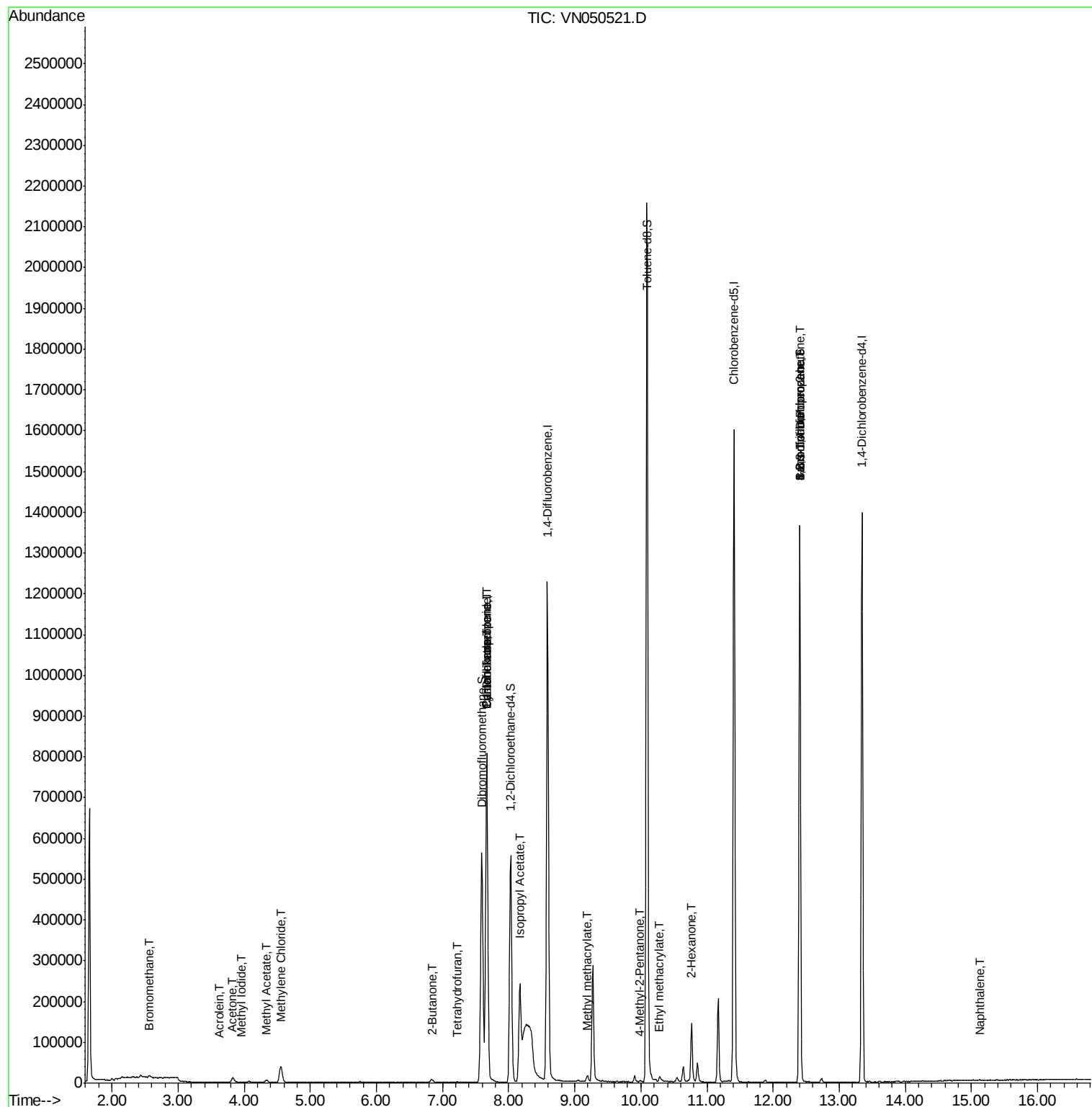
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	3044	Below Cal		91
5) Bromomethane	2.56	94	4177	1.03 ug/l	#	73
10) Methyl Iodide	3.96	142	971	0.28 ug/l	#	76
13) Acrolein	3.61	56	61	15.09 ug/l	#	15
16) Acetone	3.82	43	21161	7.34 ug/l		98
18) Methyl Acetate	4.33	43	11396	1.41 ug/l		96
20) Methylene Chloride	4.55	84	30830	2.18 ug/l		94
25) 2-Butanone	6.86	43	4646	1.02 ug/l	#	83
29) Tetrahydrofuran	7.23	42	1254	0.51 ug/l	#	66
31) Cyclohexane	7.66	56	12486	0.32 ug/l	#	1
36) 1,1-Dichloropropene	7.67	75	47519	3.78 ug/l	#	48
38) Carbon Tetrachloride	7.67	117	62134	4.74 ug/l	#	16
43) Isopropyl Acetate	8.17	43	315787	20.21 ug/l		96
48) Methyl methacrylate	9.18	41	8862	1.13 ug/l	#	20
51) 4-Methyl-2-Pentanone	9.99	43	2329	0.21 ug/l		97
56) Ethyl methacrylate	10.27	69	119	1.72 ug/l	#	1
59) 2-Hexanone	10.77	43	20928	2.66 ug/l	#	55
71) Bromoform	12.40	173	2438	0.37 ug/l	#	1
76) 1,2,3-Trichloropropane	12.40	75	218088	30.53 ug/l	#	100
81) trans-1,4-Dichloro-2-buten	12.40	75	218088	107.26 ug/l	#	13
95) Naphthalene	15.13	128	516	3.65 ug/l	#	69

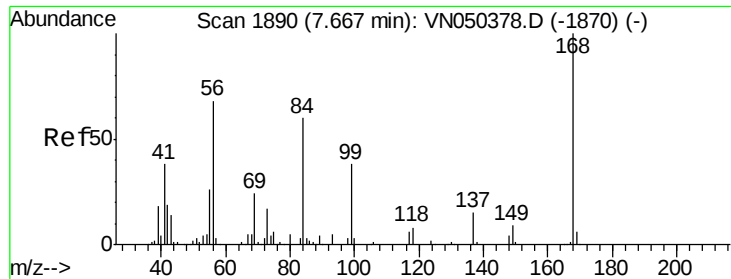
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Aug 07 05:22:15 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050521.D

Acq: 10 Aug 2018 16:36

Instrument :

MSVOA_N

ClientSampleId :

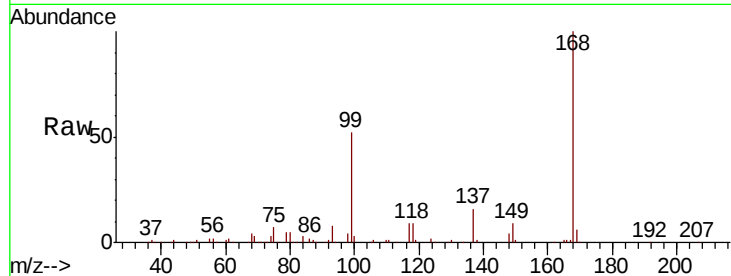
PB111921ZHE#02

Tot Ion:168 Resp: 690425

Ion Ratio Lower Upper

168 100

99 51.6 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

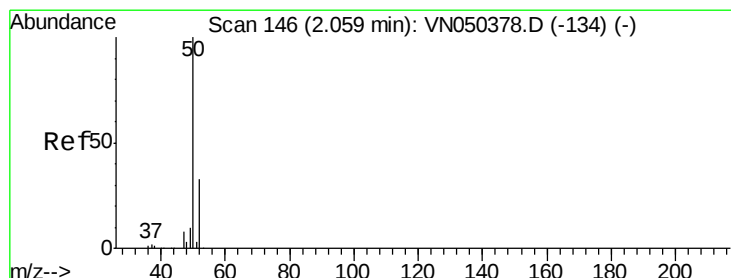
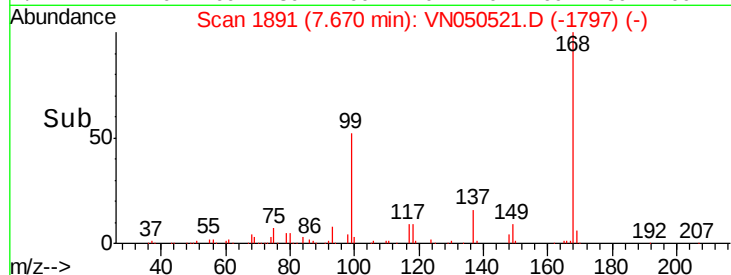
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050521.D

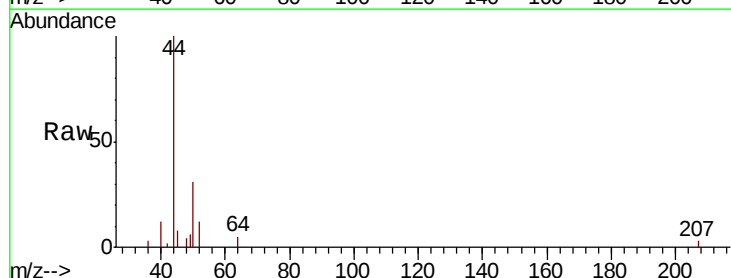
Acq: 10 Aug 2018 16:36

Tgt Ion: 50 Resp: 3044

Ion Ratio Lower Upper

50 100

52 37.5 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.06

2000

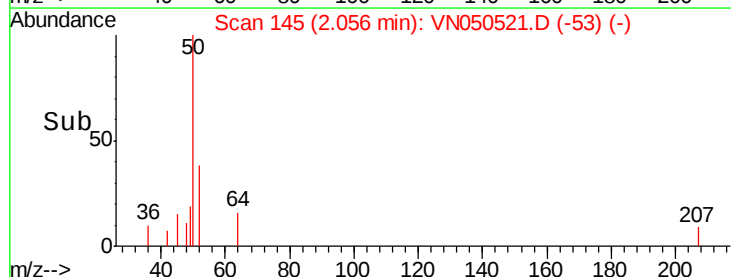
1500

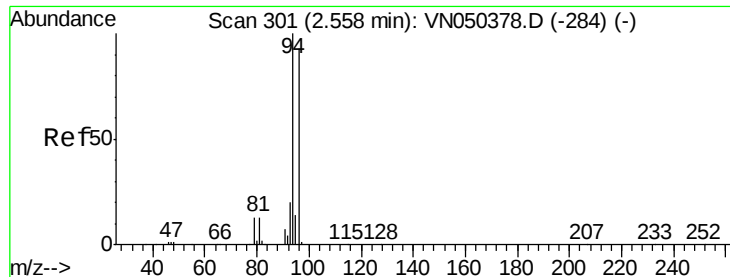
1000

500

0

Time-->





#5

Bromomethane

Concen: 1.03 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.01 min

Lab File: VN050521.D

Acq: 10 Aug 2018 16:36

Instrument :

MSVOA_N

ClientSampleId :

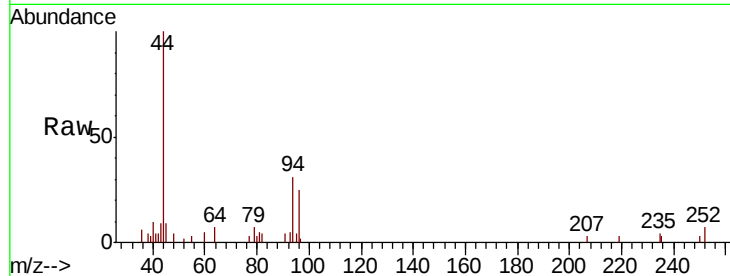
PB111921ZHE#02

Tot Ion: 94 Resp: 4177

Ion Ratio Lower Upper

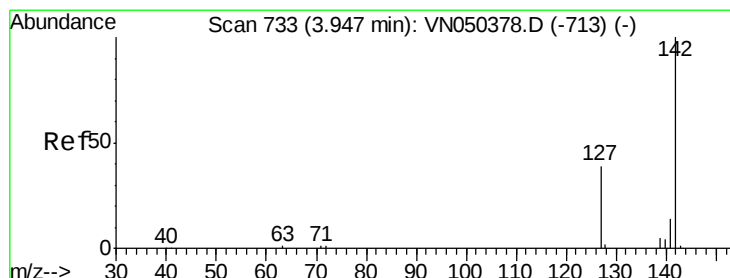
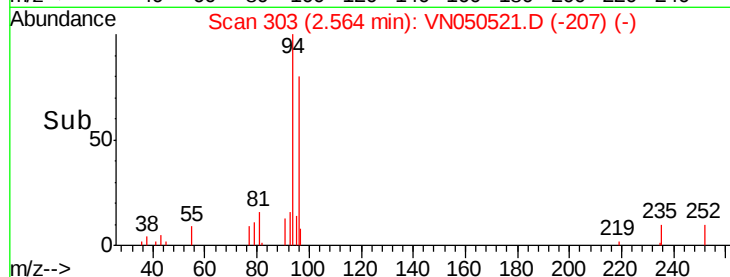
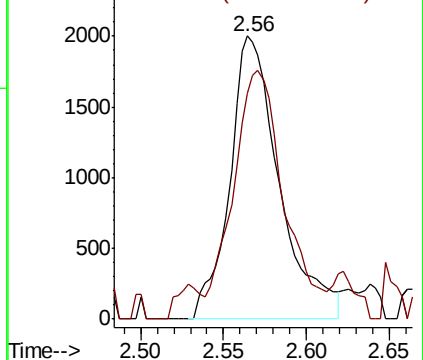
94 100

96 67.5 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#10

Methyl Iodide

Concen: 0.28 ug/l

RT: 3.96 min Scan# 737

Delta R.T. 0.01 min

Lab File: VN050521.D

Acq: 10 Aug 2018 16:36

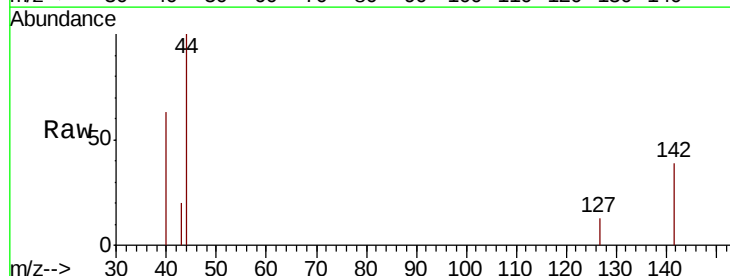
Tgt Ion: 142 Resp: 971

Ion Ratio Lower Upper

142 100

127 27.0 33.4 50.2#

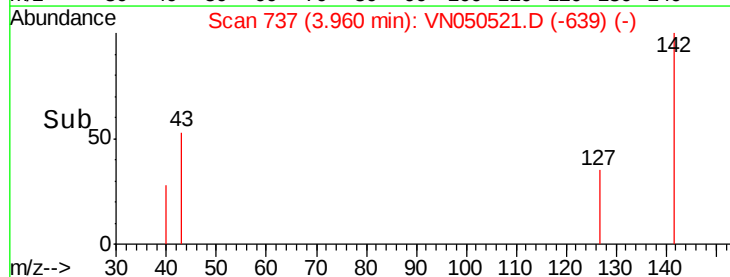
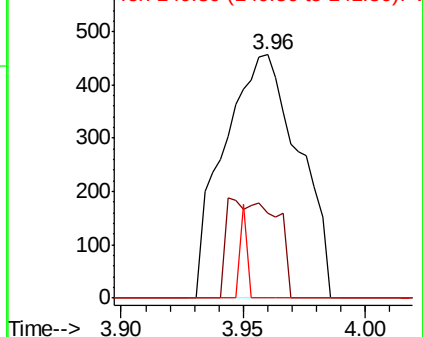
141 3.5 11.6 17.4#

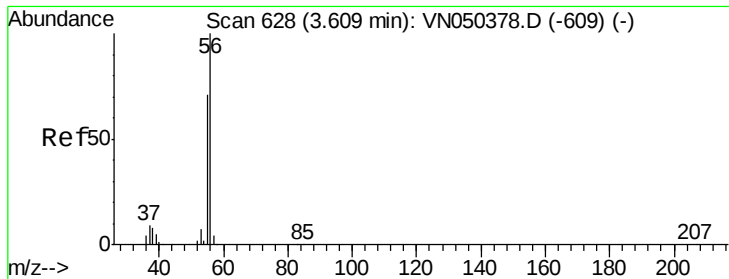


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#13

Acrolein

Concen: 15.09 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN050521.D

Acq: 10 Aug 2018 16:36

Instrument :

MSVOA_N

ClientSampleId :

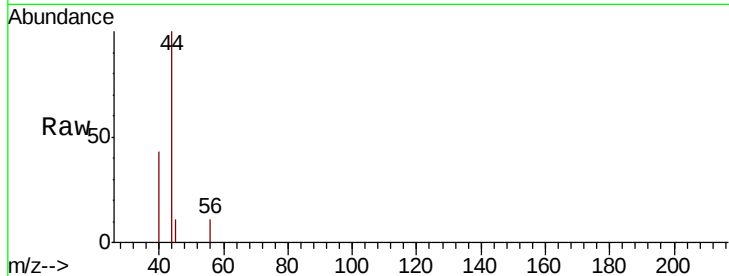
PB111921ZHE#02

Tot Ion: 56 Resp: 61

Ion Ratio Lower Upper

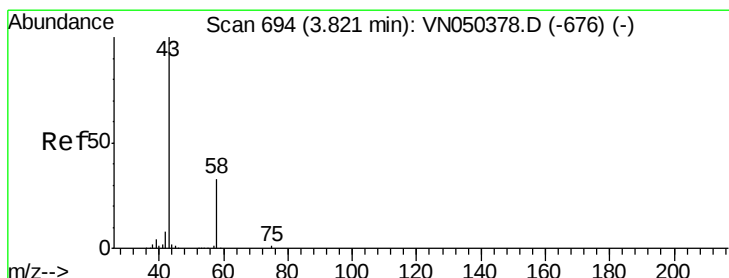
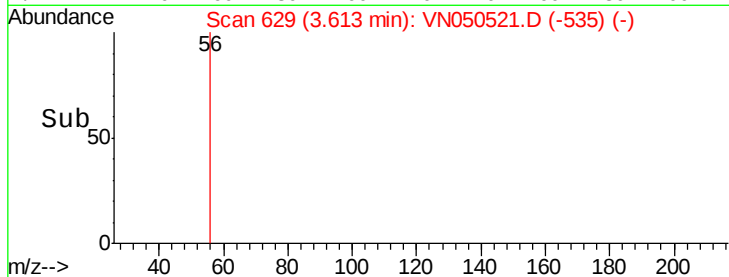
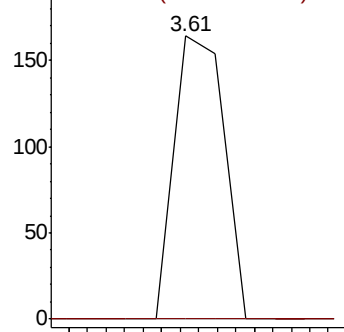
56 100

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: 7.34 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050521.D

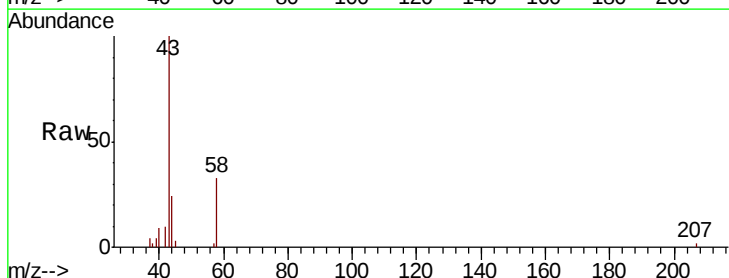
Acq: 10 Aug 2018 16:36

Tgt Ion: 43 Resp: 21161

Ion Ratio Lower Upper

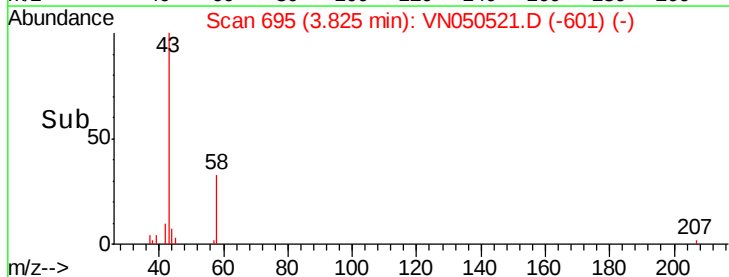
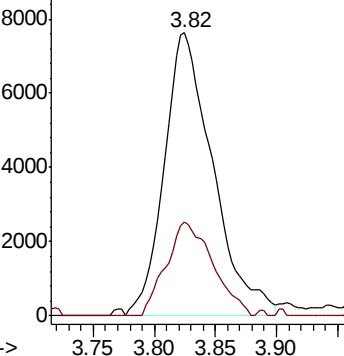
43 100

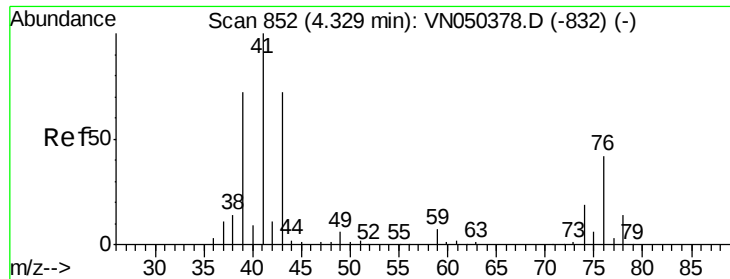
58 33.2 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

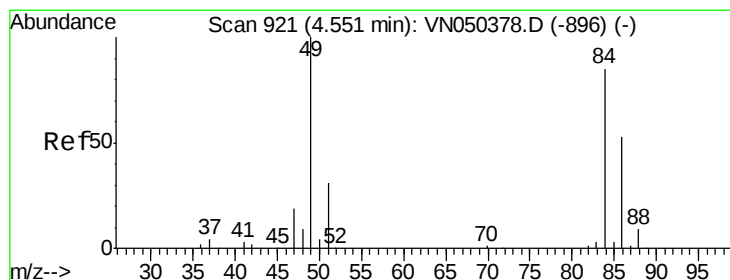
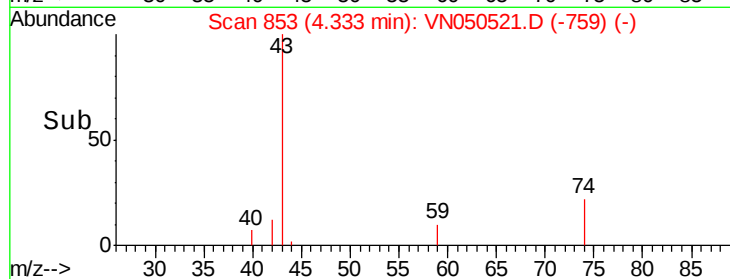
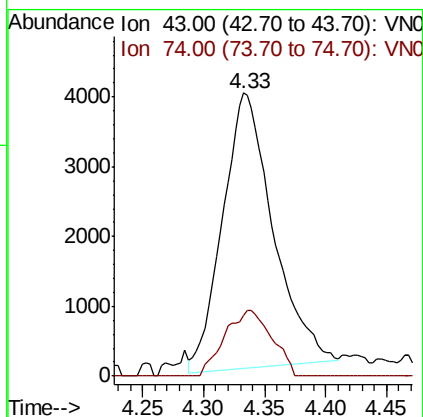
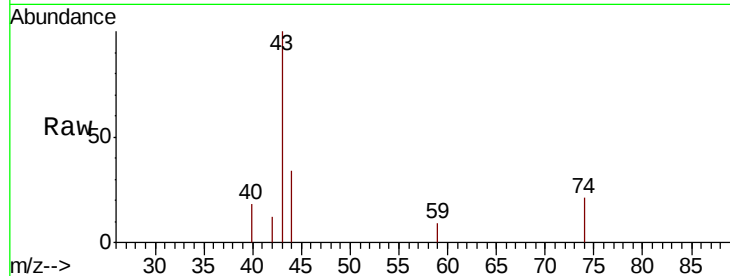




#18
Methyl Acetate
Concen: 1.41 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.00 min
Lab File: VN050521.D
Acq: 10 Aug 2018 16:36

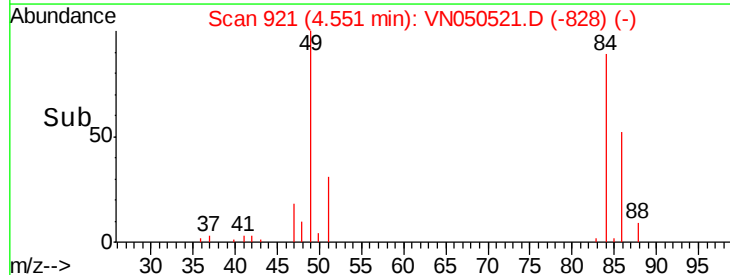
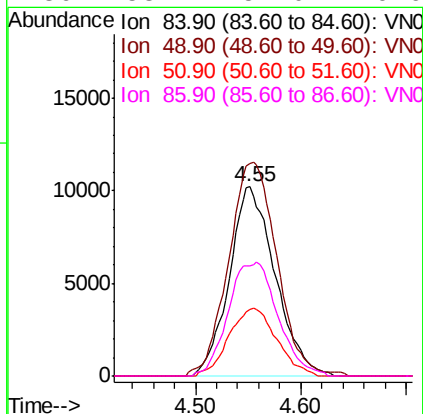
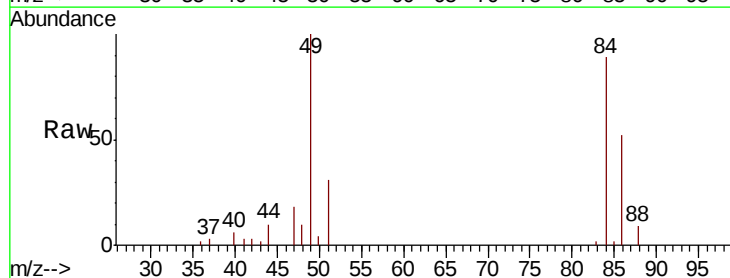
Instrument :
MSVOA_N
ClientSampleId :
PB111921ZHE#02

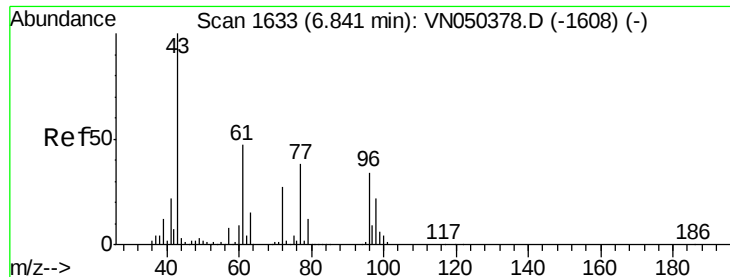
Tot Ion: 43 Resp: 11396
Ion Ratio Lower Upper
43 100
74 22.2 19.2 28.8



#20
Methylene Chloride
Concen: 2.18 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050521.D
Acq: 10 Aug 2018 16:36

Tgt Ion: 84 Resp: 30830
Ion Ratio Lower Upper
84 100
49 110.4 94.8 142.2
51 35.3 28.3 42.5
86 58.1 51.0 76.6

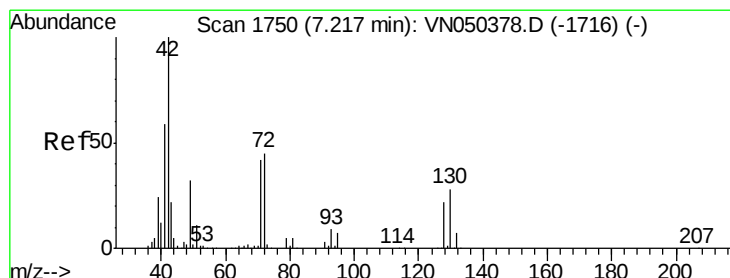
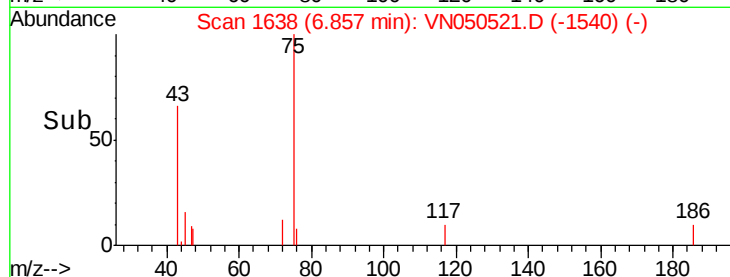
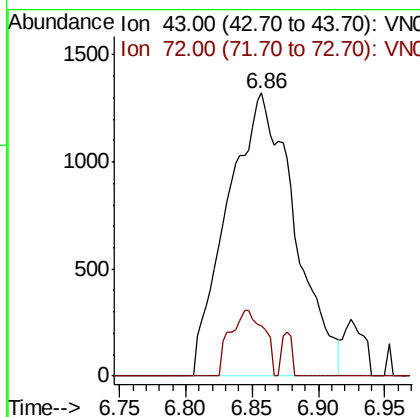
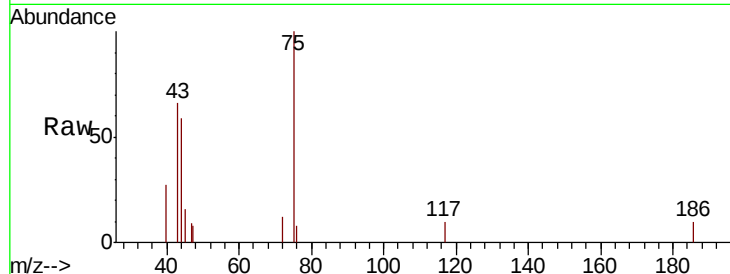




#25
 2-Butanone
 Concen: 1.02 ug/l
 RT: 6.86 min Scan# 1638
 Delta R.T. 0.02 min
 Lab File: VN050521.D
 Acq: 10 Aug 2018 16:36

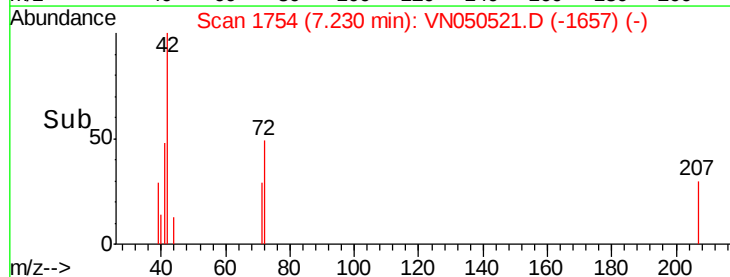
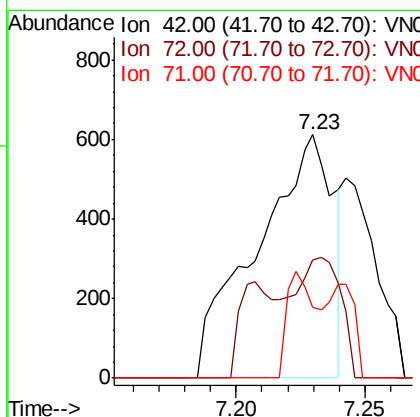
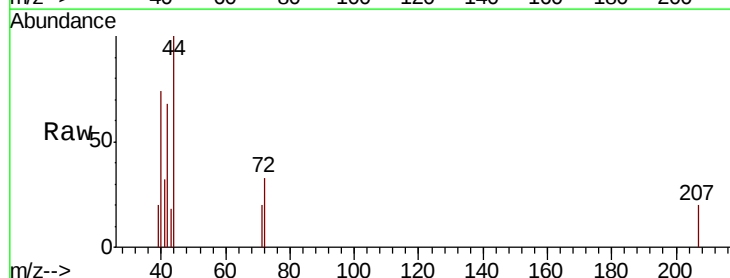
Instrument :
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 ClientSampleId :
 PB111921ZHE#02

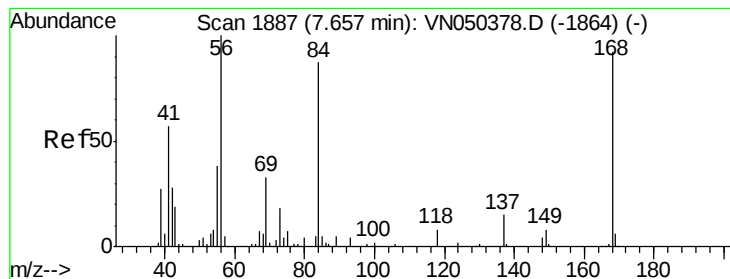
Tot Ion: 43 Resp: 4646
 Ion Ratio Lower Upper
 43 100
 72 18.0 21.5 32.3#



#29
 Tetrahydrofuran
 Concen: 0.51 ug/l
 RT: 7.23 min Scan# 1754
 Delta R.T. 0.01 min
 Lab File: VN050521.D
 Acq: 10 Aug 2018 16:36

Tgt Ion: 42 Resp: 1254
 Ion Ratio Lower Upper
 42 100
 72 27.1 35.9 53.9#
 71 16.5 33.7 50.5#





#31

Cyclohexane

Concen: 0.32 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. 0.01 min

Lab File: VN050521.D

Acq: 10 Aug 2018 16:36

Instrument :

MSVOA_N

ClientSampleId :

PB111921ZHE#02

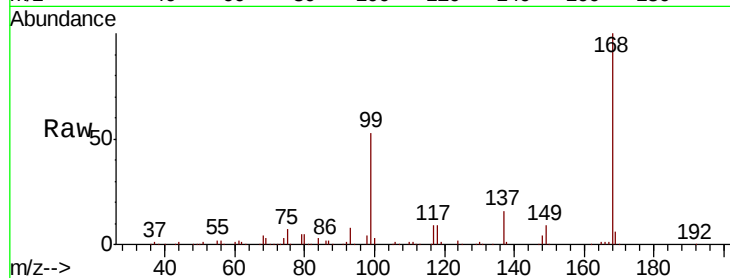
Tot Ion: 56 Resp: 12486

Ion Ratio Lower Upper

56 100

69 184.3 26.2 39.4#

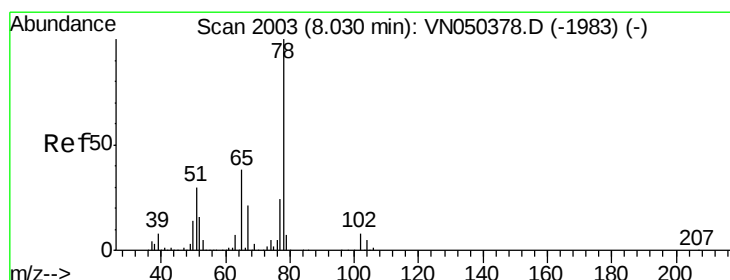
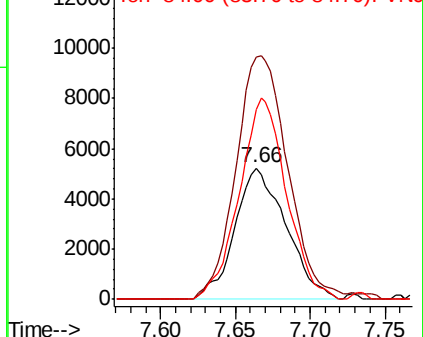
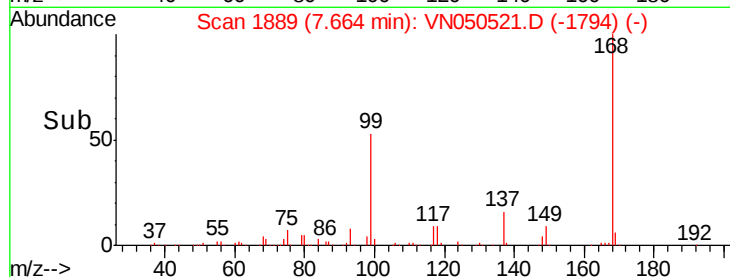
84 144.6 67.4 101.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 51.36 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050521.D

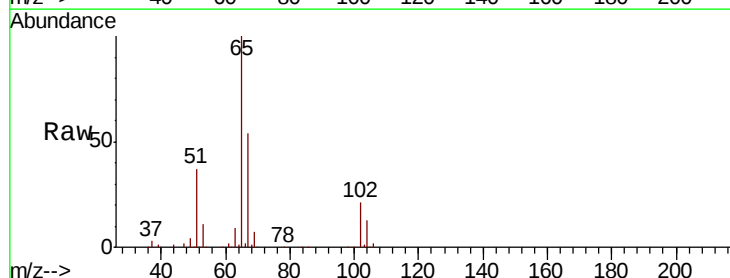
Acq: 10 Aug 2018 16:36

Tgt Ion: 65 Resp: 473753

Ion Ratio Lower Upper

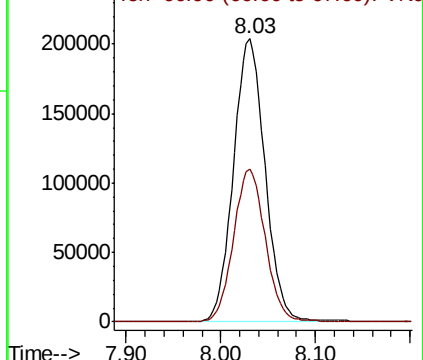
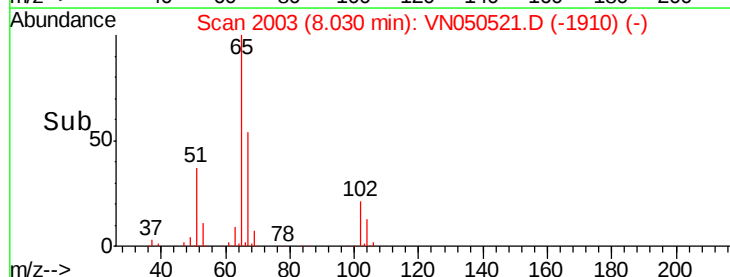
65 100

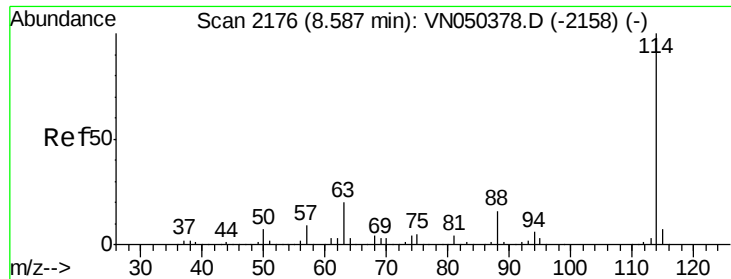
67 54.4 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

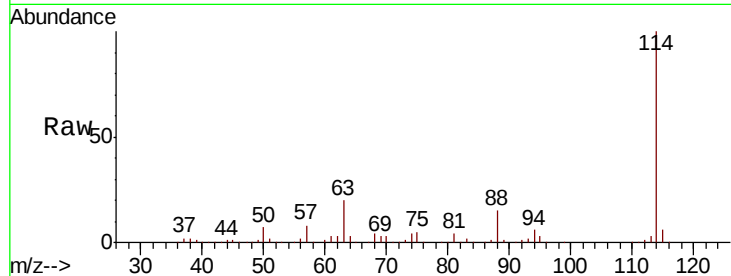




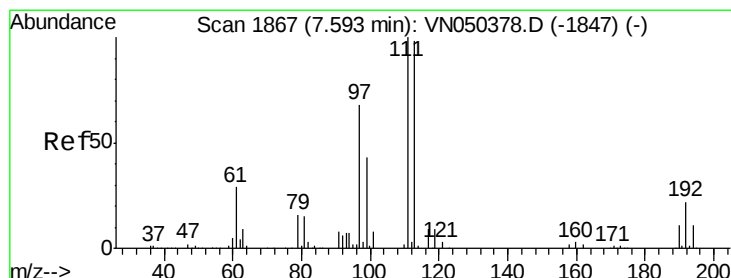
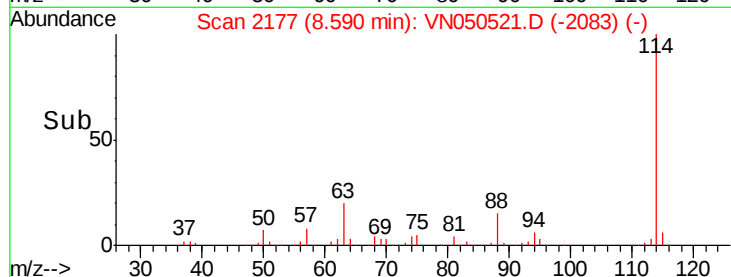
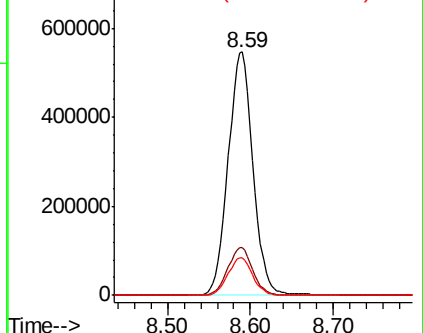
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050521.D
 Acq: 10 Aug 2018 16:36

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111921ZHE#02

Tot Ion:114 Resp: 1144203
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 40.0
 88 15.2 0.0 31.2

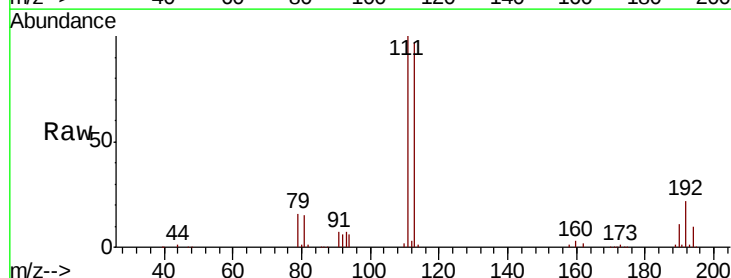


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

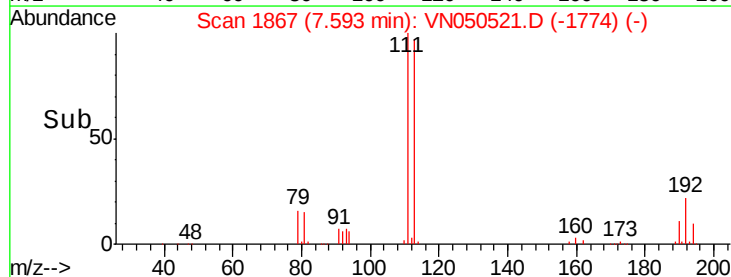
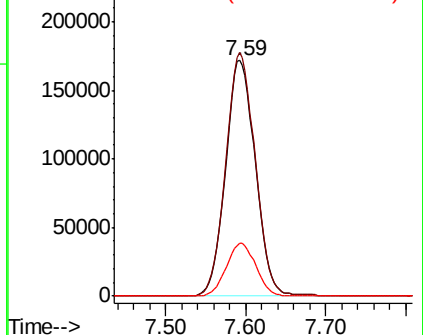


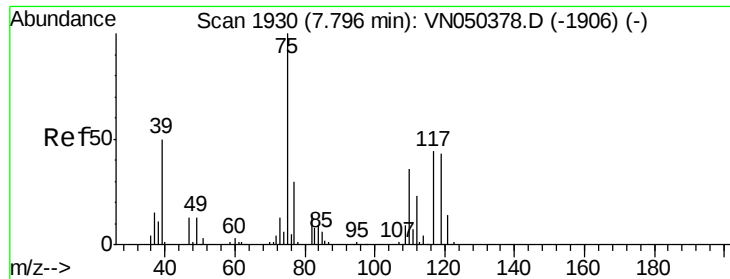
#35
 Dibromofluoromethane
 Concen: 47.48 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050521.D
 Acq: 10 Aug 2018 16:36

Tgt Ion:113 Resp: 435895
 Ion Ratio Lower Upper
 113 100
 111 101.5 80.7 121.1
 192 22.2 17.8 26.6



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

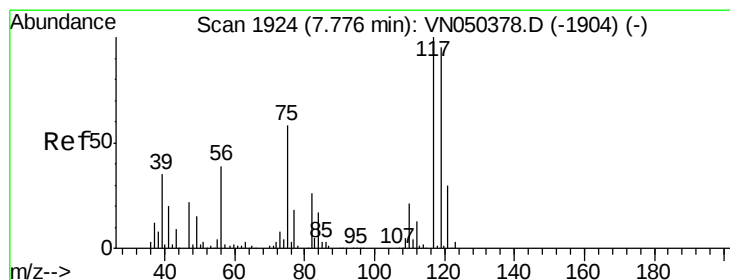
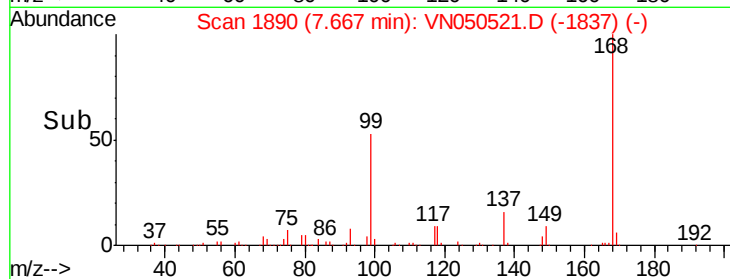
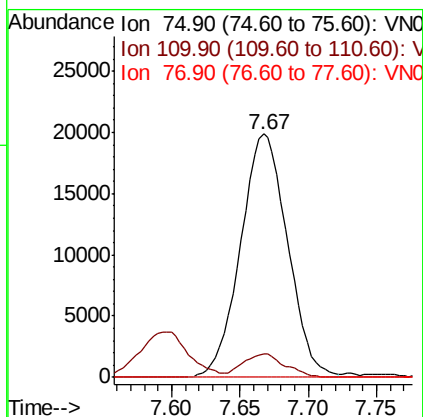
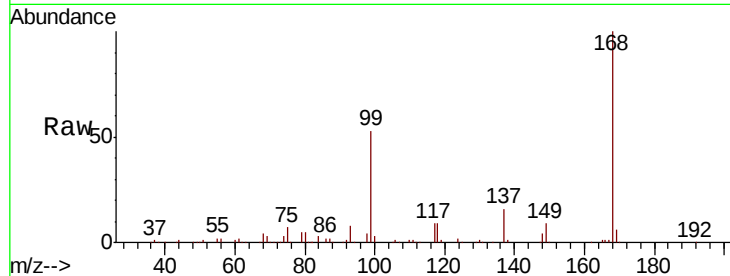




#36
 1,1-Dichloropropene
 Concen: 3.78 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050521.D
 Acq: 10 Aug 2018 16:36

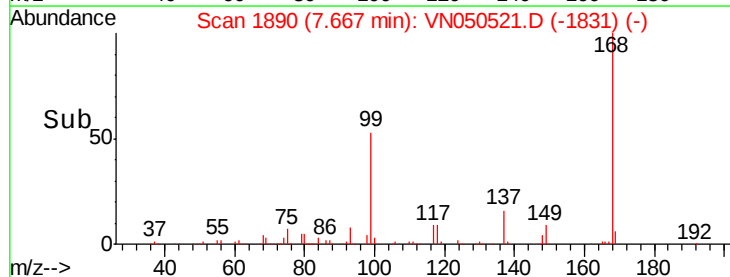
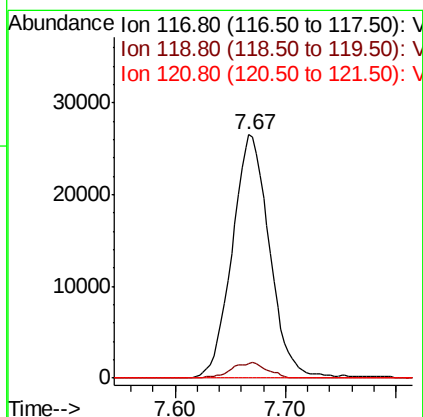
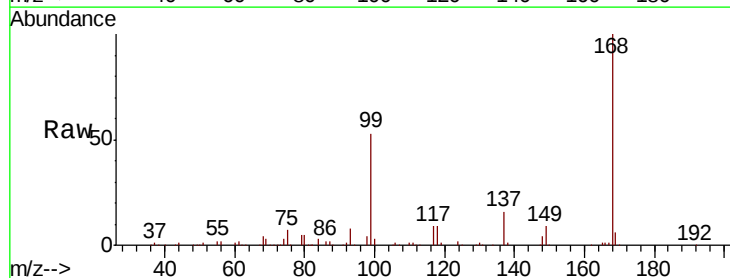
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111921ZHE#02

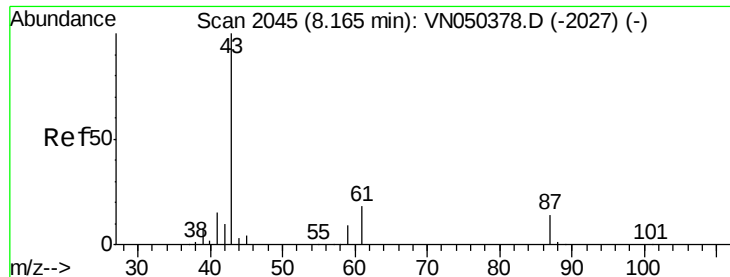
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.7	18.4	55.2#
77	0.0	25.3	37.9#



#38
 Carbon Tetrachloride
 Concen: 4.74 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN050521.D
 Acq: 10 Aug 2018 16:36

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.9	77.4	116.0#
121	0.0	23.9	35.9#





#43

Isopropyl Acetate

Concen: 20.21 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050521.D

Acq: 10 Aug 2018 16:36

Instrument :

MSVOA_N

ClientSampleId :

PB111921ZHE#02

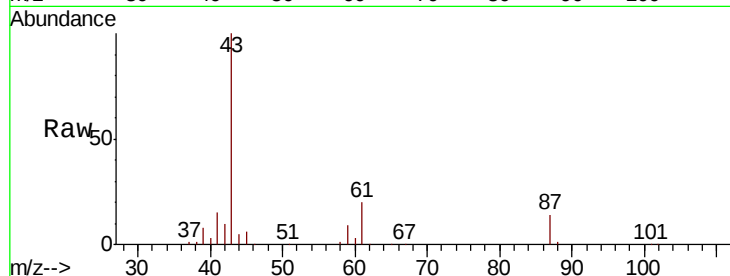
Tot Ion: 43 Resp: 315787

Ion Ratio Lower Upper

43 100

61 17.9 15.8 23.6

87 11.7 10.3 15.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

150000

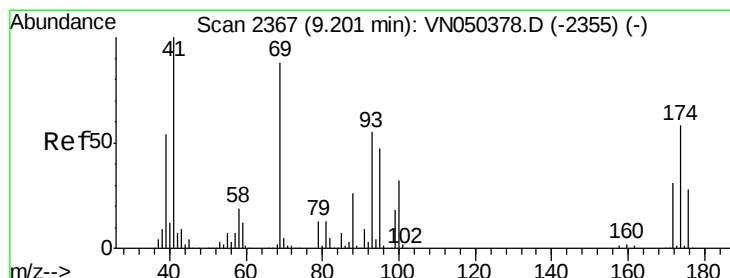
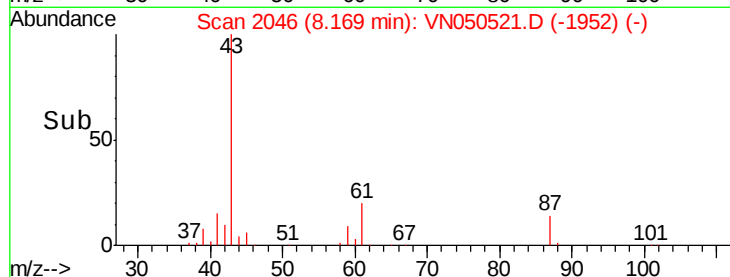
100000

50000

0

8.10 8.15 8.20

Time-->



#48

Methyl methacrylate

Concen: 1.13 ug/l

RT: 9.18 min Scan# 2362

Delta R.T. -0.02 min

Lab File: VN050521.D

Acq: 10 Aug 2018 16:36

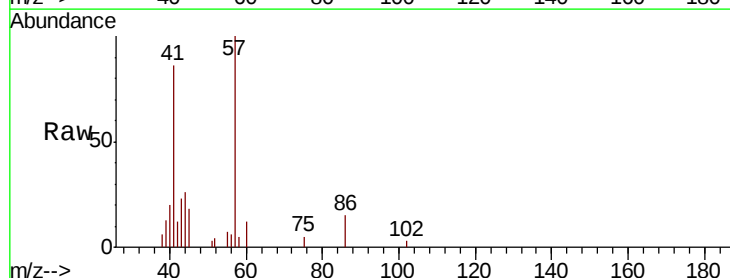
Tgt Ion: 41 Resp: 8862

Ion Ratio Lower Upper

41 100

69 0.0 70.6 105.8#

39 14.8 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

20000

15000

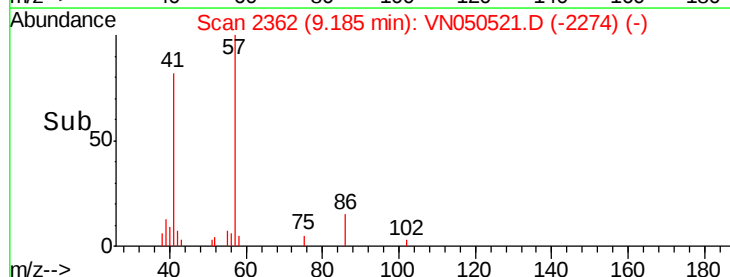
10000

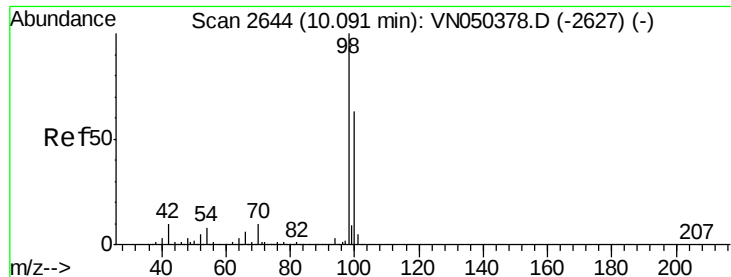
5000

0

9.10 9.15 9.20 9.25

Time-->

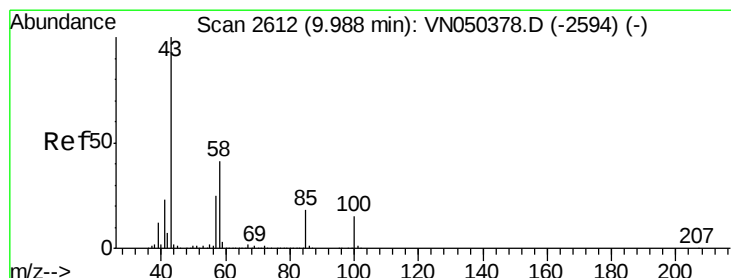
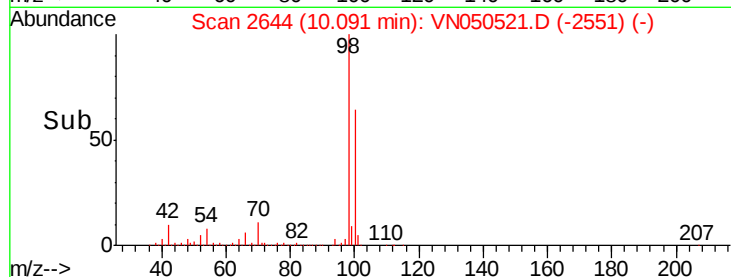
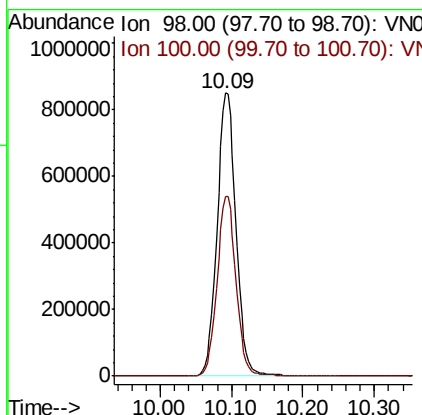
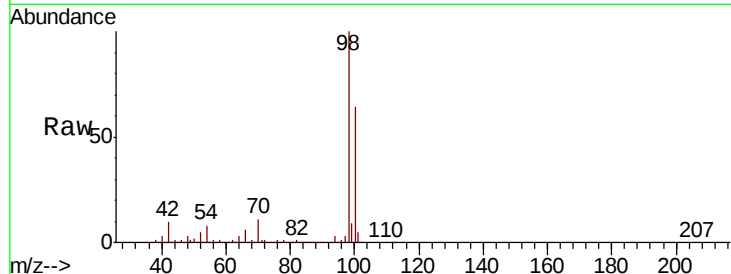




#50
Toluene-d8
Concen: 45.12 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050521.D
Acq: 10 Aug 2018 16:36

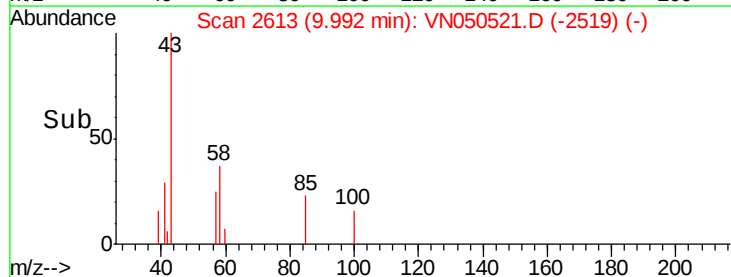
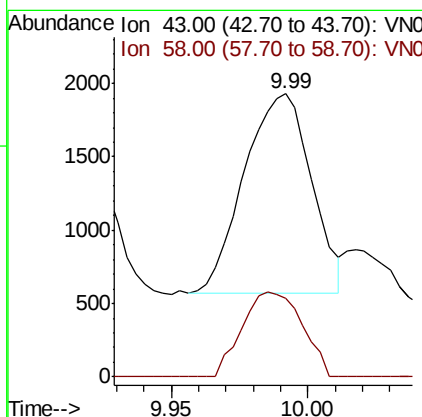
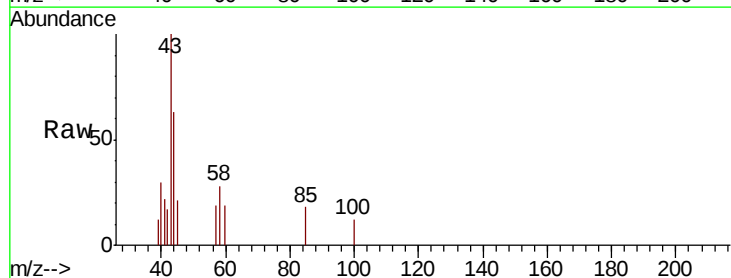
Instrument :
MSVOA_N
ClientSampleId :
PB111921ZHE#02

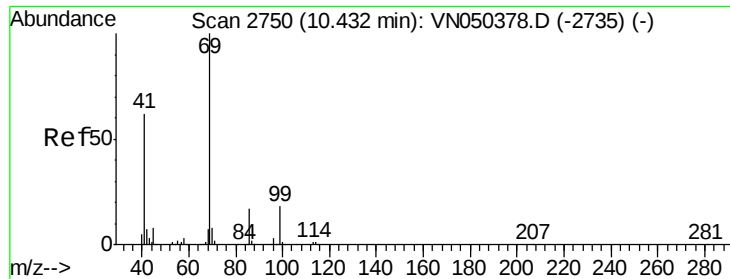
Tot Ion: 98 Resp: 1557596
Ion Ratio Lower Upper
98 100
100 63.6 50.7 76.1



#51
4-Methyl-2-Pentanone
Concen: 0.21 ug/l
RT: 9.99 min Scan# 2613
Delta R.T. 0.00 min
Lab File: VN050521.D
Acq: 10 Aug 2018 16:36

Tgt Ion: 43 Resp: 2329
Ion Ratio Lower Upper
43 100
58 38.0 31.9 47.9





#56

Ethyl methacrylate

Concen: 1.72 ug/l

RT: 10.27 min Scan# 2701

Delta R.T. -0.16 min

Lab File: VN050521.D

Acq: 10 Aug 2018 16:36

Instrument :

MSVOA_N

ClientSampleId :

PB111921ZHE#02

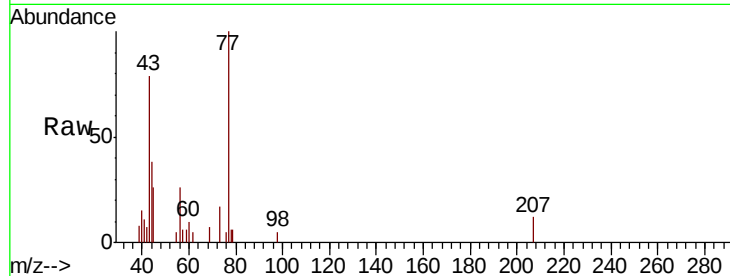
Tot Ion: 69 Resp: 119

Ion Ratio Lower Upper

69 100

41 1121.0 51.0 76.4#

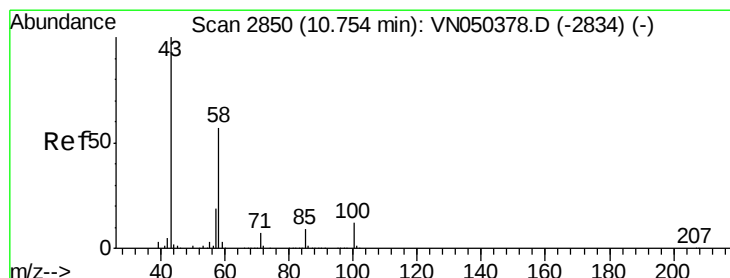
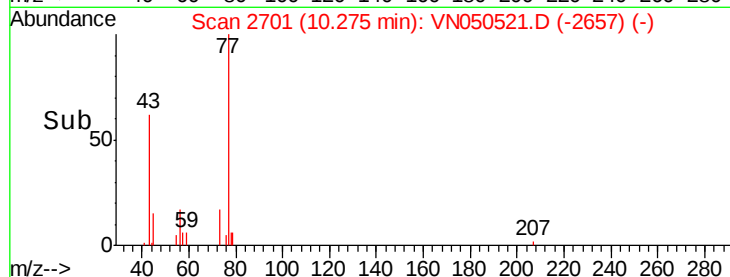
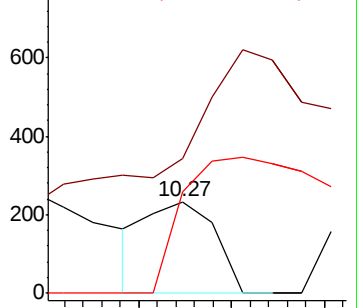
39 359.7 26.6 40.0#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 2.66 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050521.D

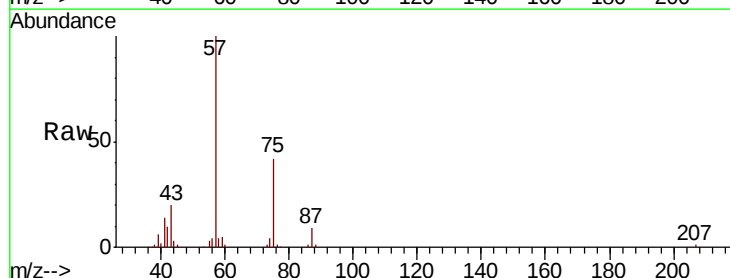
Acq: 10 Aug 2018 16:36

Tgt Ion: 43 Resp: 20928

Ion Ratio Lower Upper

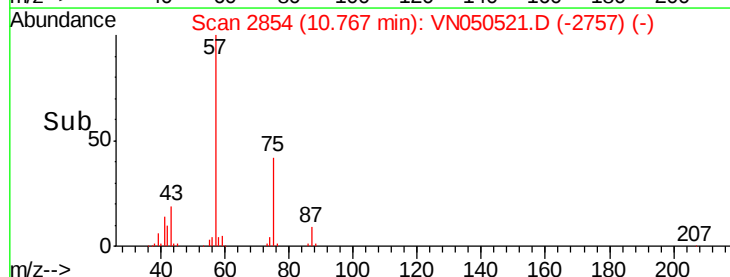
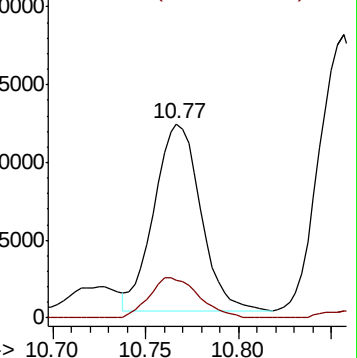
43 100

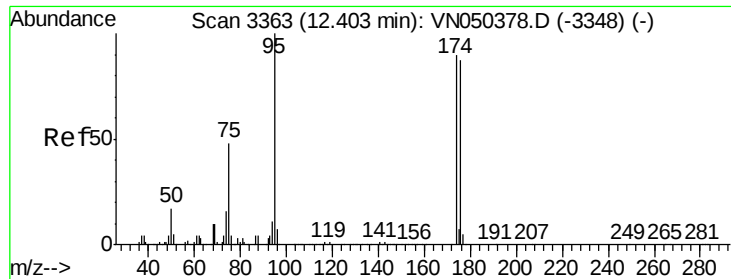
58 22.9 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

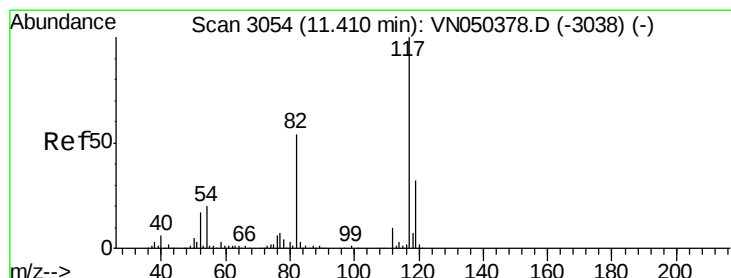
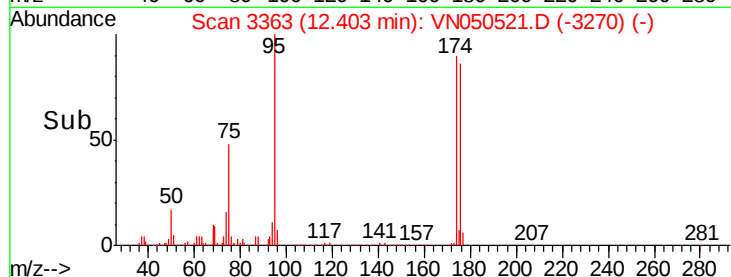
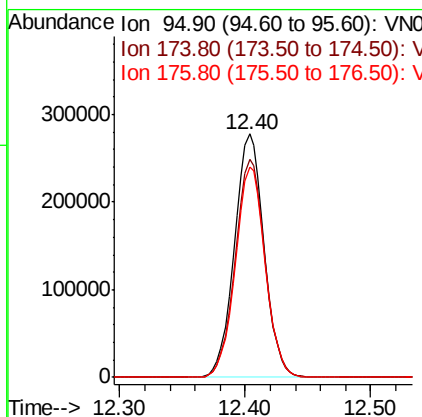
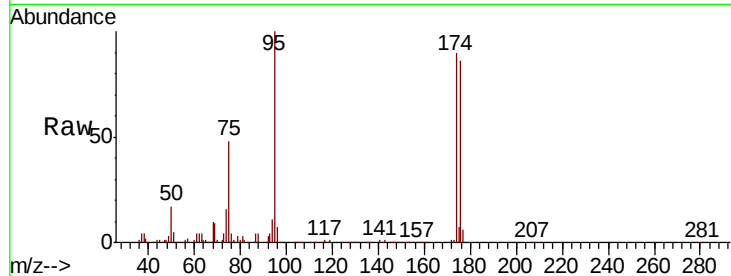




#62
4-Bromofluorobenzene
Concen: 38.49 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050521.D
Acq: 10 Aug 2018 16:36

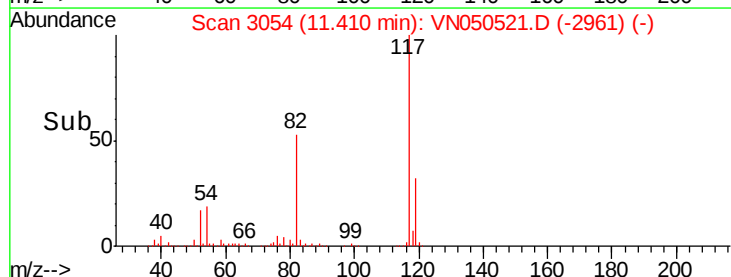
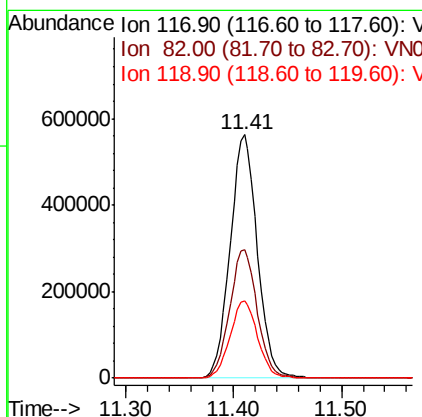
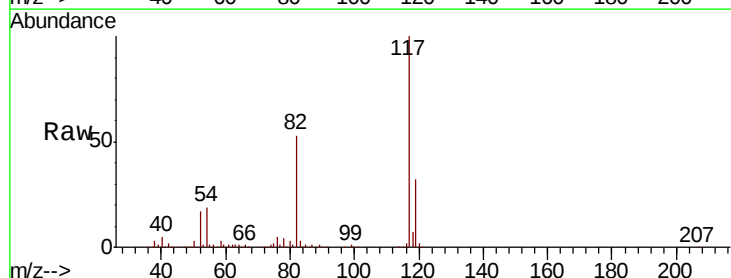
Instrument :
MSVOA_N
ClientSampleId :
PB111921ZHE#02

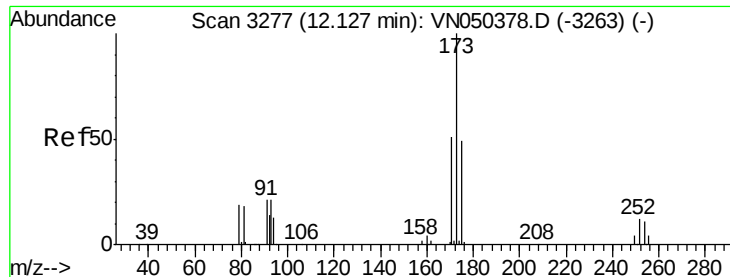
Tot Ion: 95 Resp: 452782
Ion Ratio Lower Upper
95 100
174 90.5 0.0 178.2
176 87.3 0.0 173.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050521.D
Acq: 10 Aug 2018 16:36

Tgt Ion: 117 Resp: 986579
Ion Ratio Lower Upper
117 100
82 52.9 43.7 65.5
119 31.9 26.1 39.1





#71

Bromoform

Concen: 0.37 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. 0.27 min

Lab File: VN050521.D

Acq: 10 Aug 2018 16:36

Instrument :

MSVOA_N

ClientSampleId :

PB111921ZHE#02

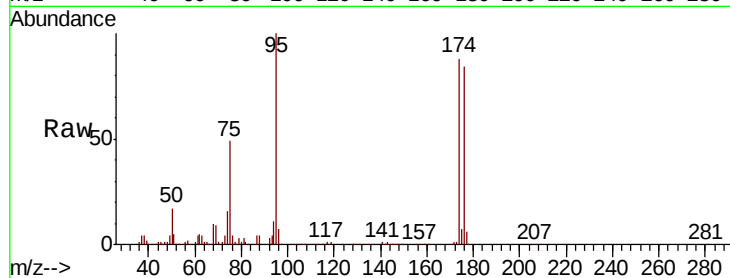
Tot Ion:173 Resp: 2438

Ion Ratio Lower Upper

173 100

175 1035.7 24.1 72.2#

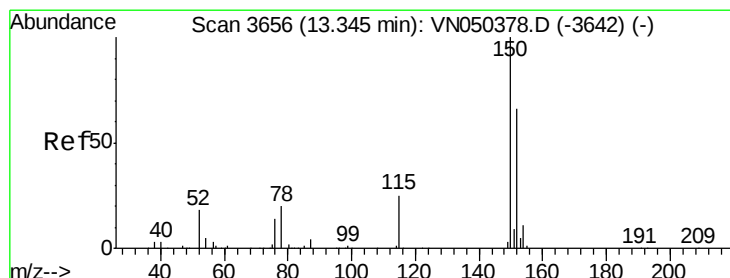
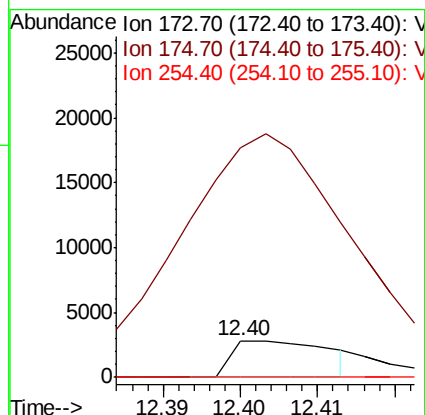
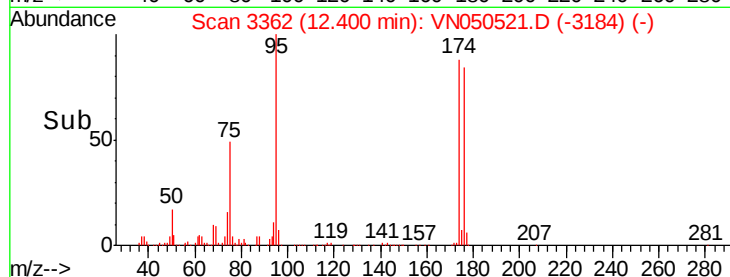
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050521.D

Acq: 10 Aug 2018 16:36

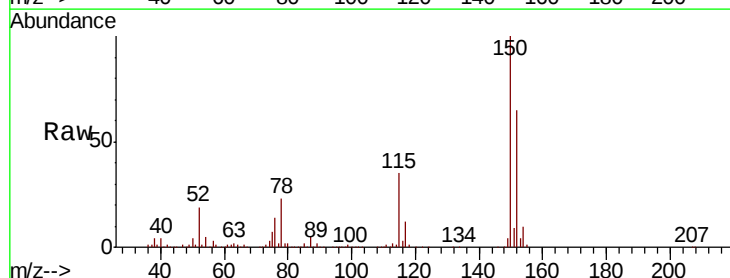
Tgt Ion:152 Resp: 394684

Ion Ratio Lower Upper

152 100

115 55.0 27.8 83.3

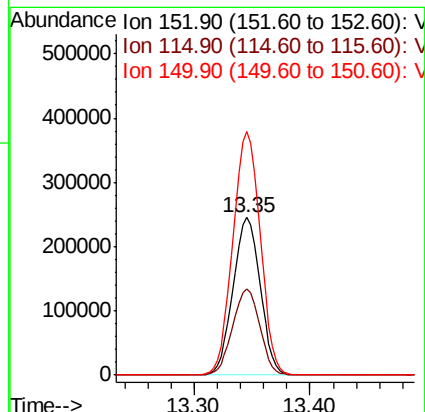
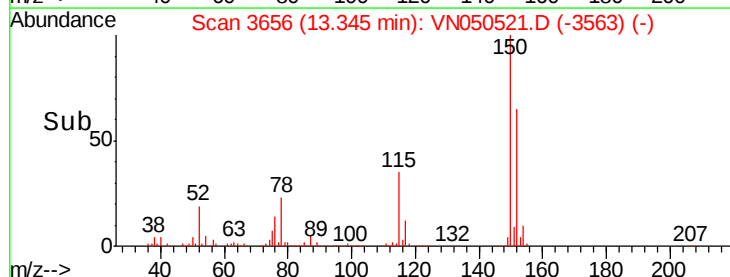
150 156.2 0.0 348.6

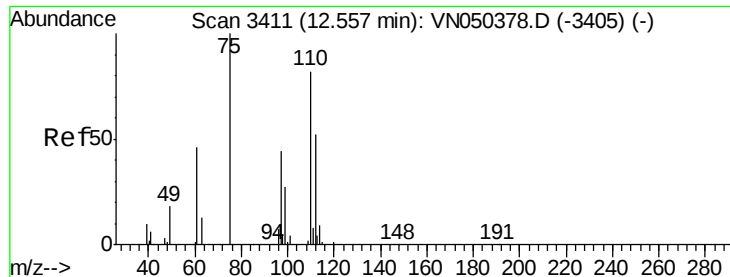


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 30.53 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050521.D

Acq: 10 Aug 2018 16:36

Instrument :

MSVOA_N

ClientSampleId :

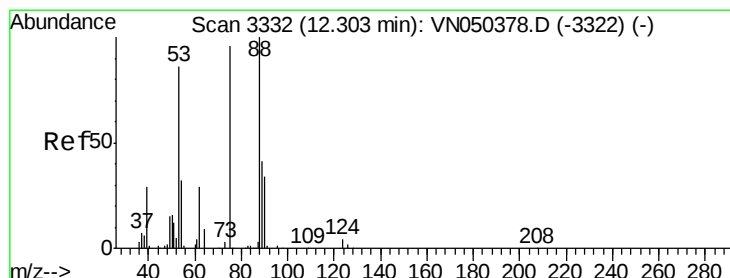
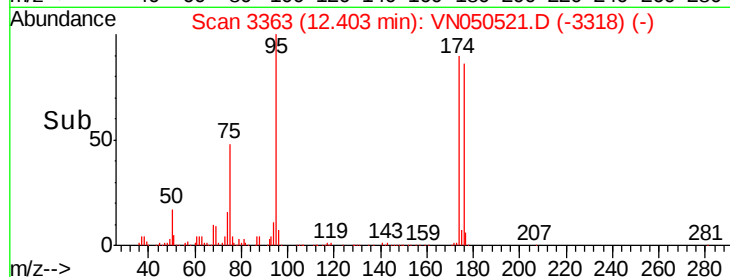
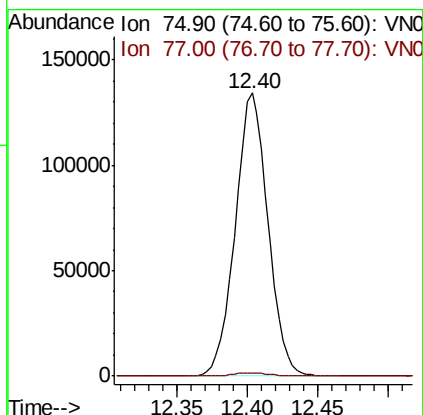
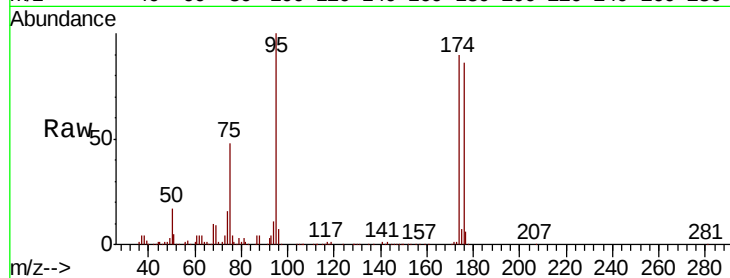
PB111921ZHE#02

Tot Ion: 75 Resp: 218088

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 107.26 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050521.D

Acq: 10 Aug 2018 16:36

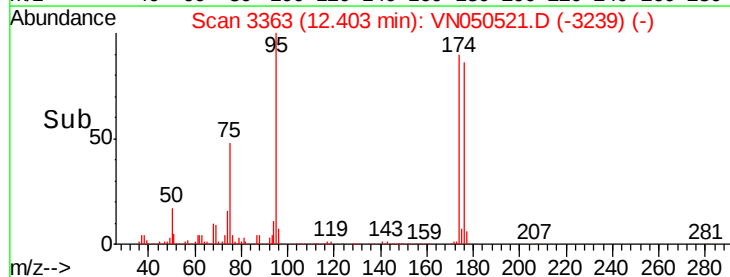
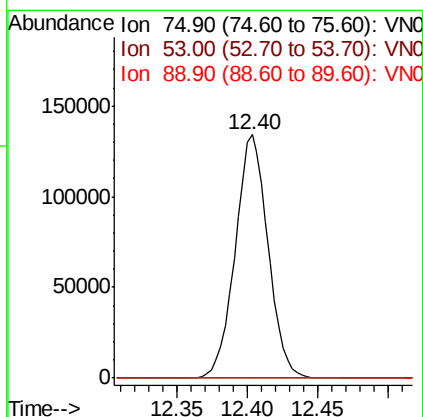
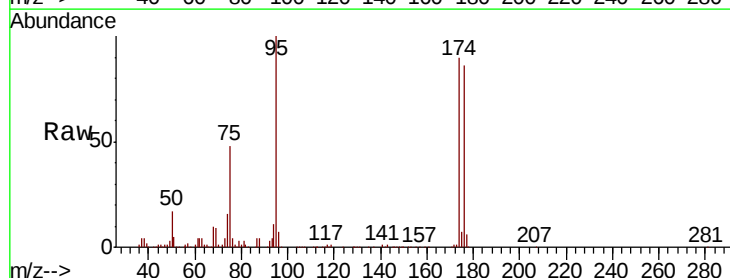
Tgt Ion: 75 Resp: 218088

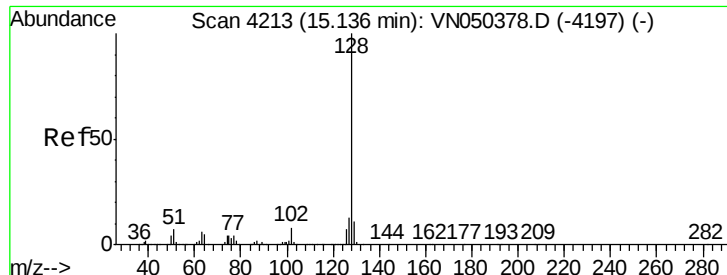
Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

89 0.0 36.0 54.0#





#95

Naphthalene

Concen: 3.65 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN050521.D

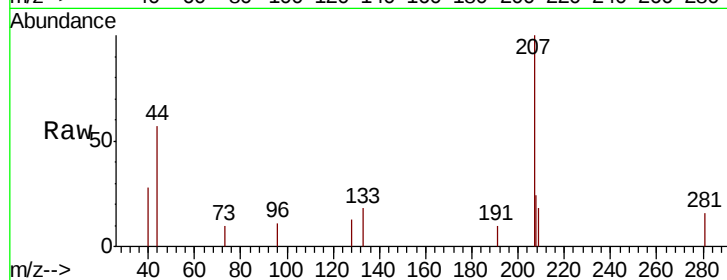
Acq: 10 Aug 2018 16:36

Instrument :

MSVOA_N

ClientSampleId :

PB111921ZHE#02



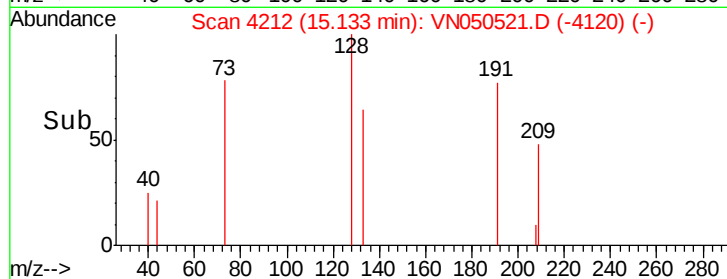
Tot Ion:128 Resp: 516

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

