

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033019\
 Data File : VN054821.D
 Acq On : 31 Mar 2019 00:24
 Operator : JC/SP
 Sample : K2164-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
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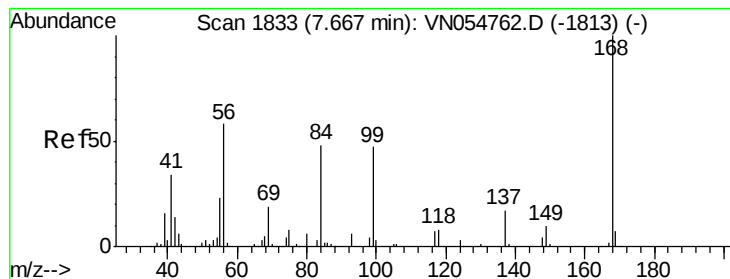
Quant Time: Mar 31 04:42:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	532448	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	856531	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	712255	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	246897	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	349638	48.71	ug/l	0.00
Spiked Amount			Recovery	=	97.42%	
35) Dibromofluoromethane	7.59	113	270794	47.42	ug/l	0.00
Spiked Amount			Recovery	=	94.84%	
50) Toluene-d8	10.09	98	1015119	47.82	ug/l	0.00
Spiked Amount			Recovery	=	95.64%	
62) 4-Bromofluorobenzene	12.40	95	307397	43.54	ug/l	0.00
Spiked Amount			Recovery	=	87.08%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.58	94	674	Below Cal		90
13) Acrolein	3.62	56	402	1.202	ug/l #	33
16) Acetone	3.83	43	2154	1.258	ug/l #	74
18) Methyl Acetate	4.35	43	1463	Below Cal	#	58
20) Methylene Chloride	4.54	84	1300	0.215	ug/l	90
31) Cyclohexane	7.67	56	11573	Below Cal	#	28
36) 1,1-Dichloropropene	7.67	75	41305	5.175	ug/l #	48
38) Carbon Tetrachloride	7.67	117	49783	6.422	ug/l #	15
71) Bromoform	12.40	173	3396	1.111	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.40	83	234	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	160493	37.418	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	160493	145.547	ug/l #	11
83) tert-Butylbenzene	12.99	119	147	Below Cal	#	42
95) Naphthalene	15.13	128	2037	0.229	ug/l #	78

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054821.D

Acq: 31 Mar 2019 00:24

Instrument :

MSVOA_N

ClientSampleId :

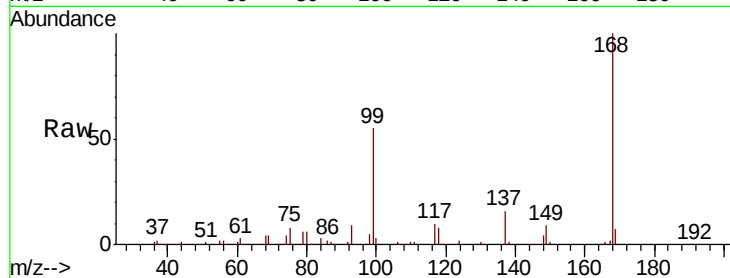
TRIP-BLANK

Tot Ion:168 Resp: 532448

Ion Ratio Lower Upper

168 100

99 55.0 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN054762.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN054762.D (-1813) (-)

7.67

250000

200000

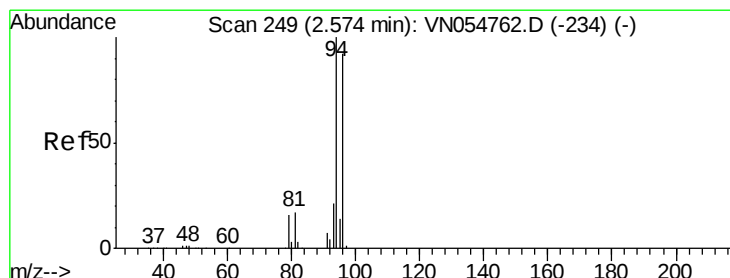
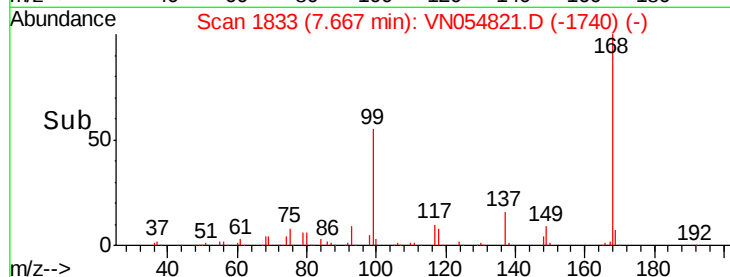
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 251

Delta R.T. 0.01 min

Lab File: VN054821.D

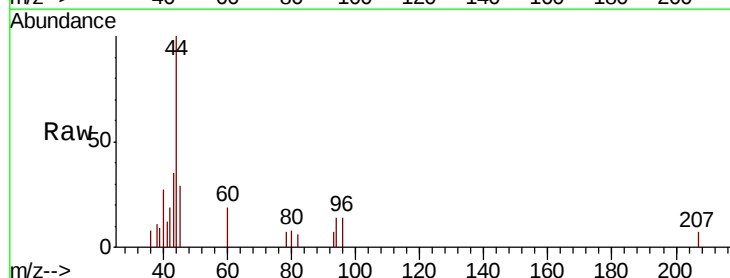
Acq: 31 Mar 2019 00:24

Tgt Ion: 94 Resp: 674

Ion Ratio Lower Upper

94 100

96 105.8 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VN054762.D (-234) (-)

Ion 95.90 (95.60 to 96.60): VN054762.D (-234) (-)

2.58

400

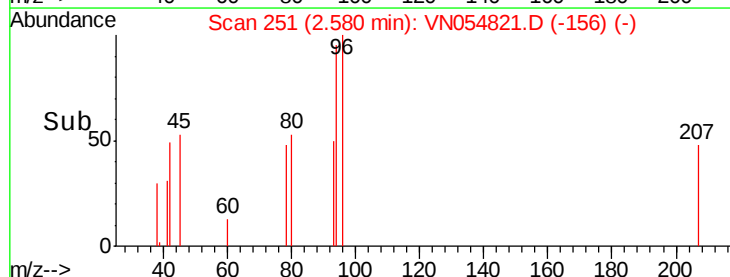
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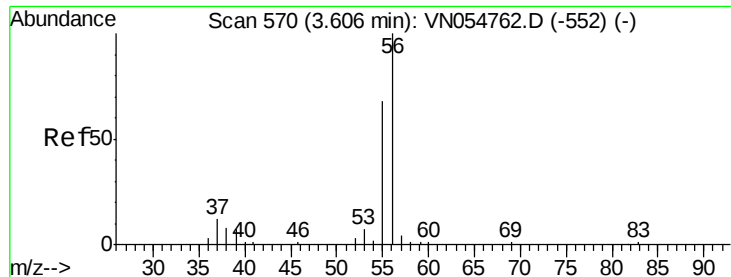
200

100

0

Time-->





#13

Acrolein

Concen: 1.202 ug/l

RT: 3.62 min Scan# 575

Delta R.T. 0.02 min

Lab File: VN054821.D

Acq: 31 Mar 2019 00:24

Instrument :

MSVOA_N

ClientSampled :

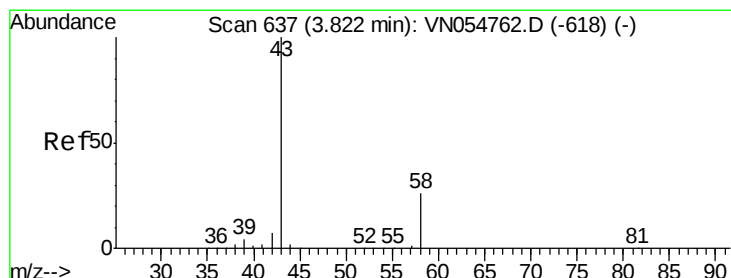
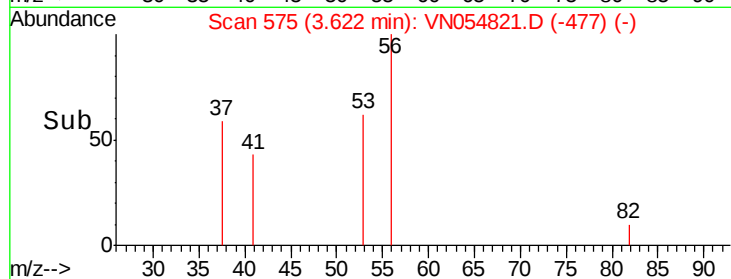
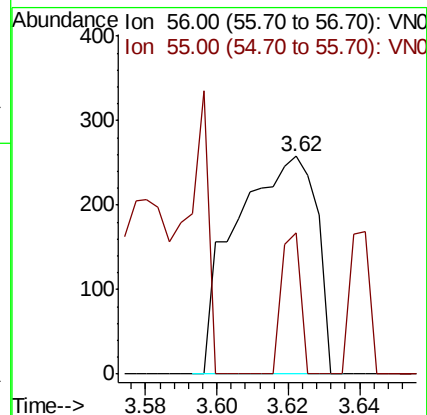
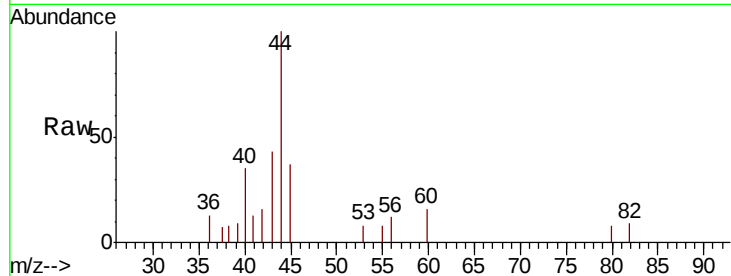
TRIP-BLANK

Tot Ion: 56 Resp: 402

Ion Ratio Lower Upper

56 100

55 15.4 56.7 85.1#



#16

Acetone

Concen: 1.258 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.01 min

Lab File: VN054821.D

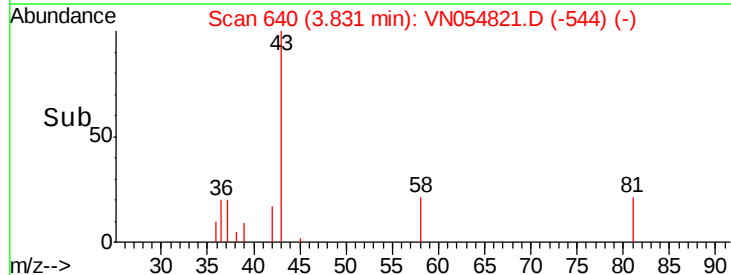
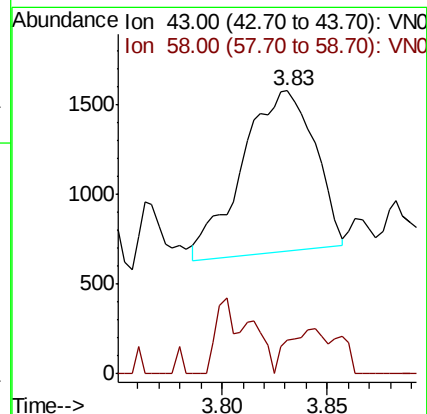
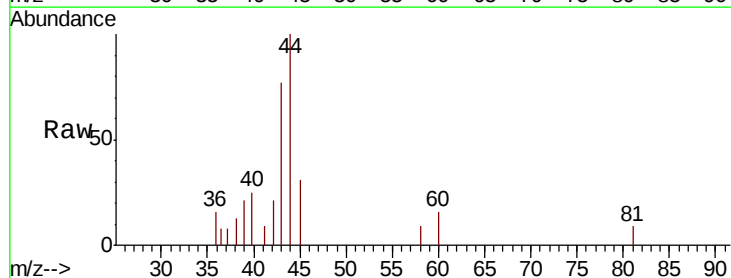
Acq: 31 Mar 2019 00:24

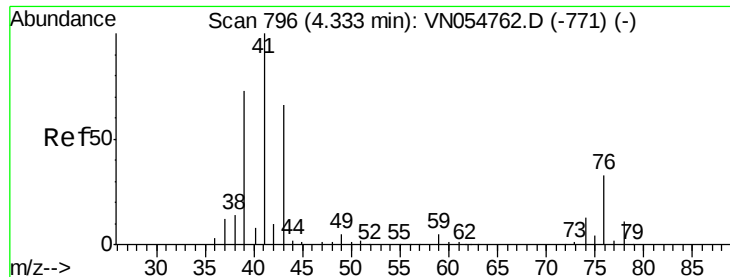
Tgt Ion: 43 Resp: 2154

Ion Ratio Lower Upper

43 100

58 21.8 29.9 44.9#

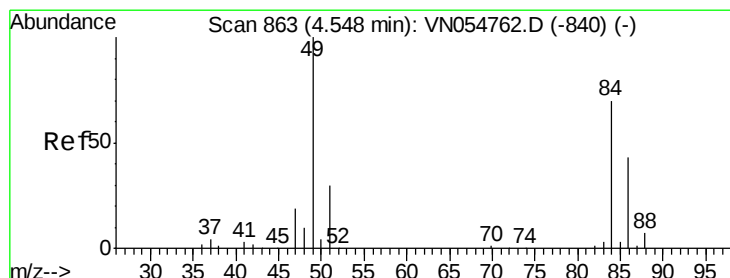
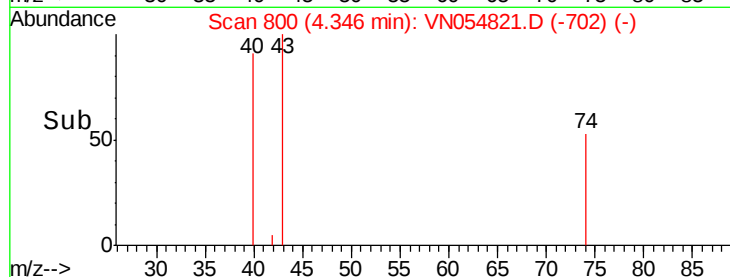
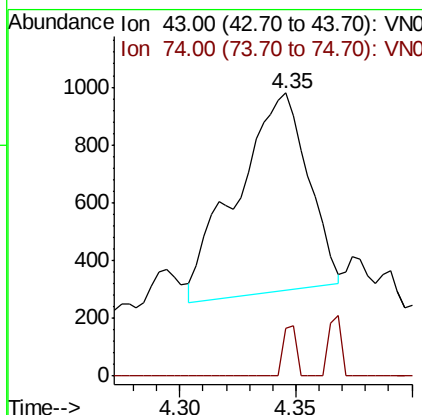
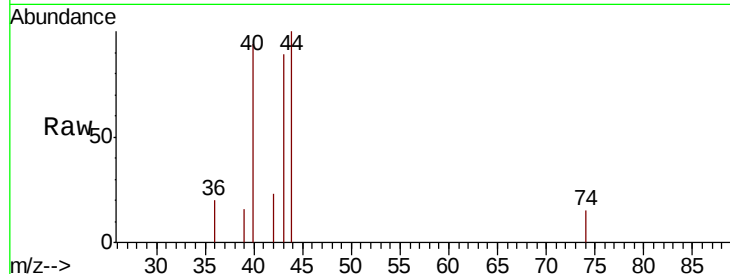




#18
Methyl Acetate
Concen: Below Cal
RT: 4.35 min Scan# 800
Delta R.T. 0.01 min
Lab File: VN054821.D
Acq: 31 Mar 2019 00:24

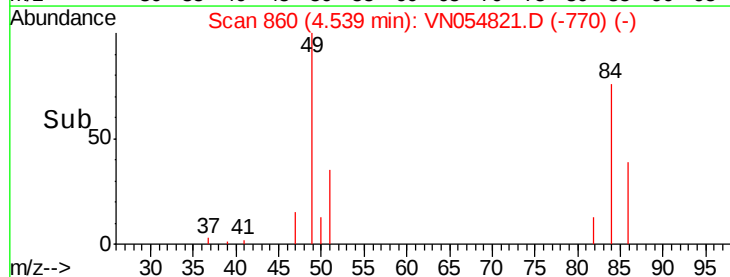
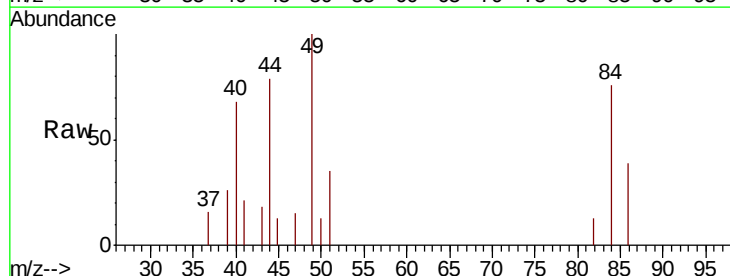
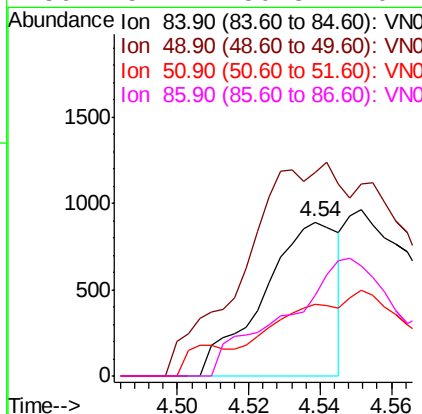
Instrument :
MSVOA_N
ClientSampled :
TRIP-BLANK

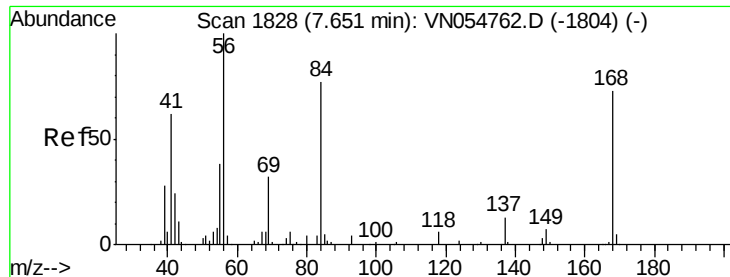
Tot Ion: 43 Resp: 1463
Ion Ratio Lower Upper
43 100
74 4.5 20.8 31.2#



#20
Methylene Chloride
Concen: 0.215 ug/l
RT: 4.54 min Scan# 860
Delta R.T. -0.01 min
Lab File: VN054821.D
Acq: 31 Mar 2019 00:24

Tgt Ion: 84 Resp: 1300
Ion Ratio Lower Upper
84 100
49 104.6 89.7 134.5
51 30.0 28.2 42.4
86 52.1 50.8 76.2





#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN054821.D

Acq: 31 Mar 2019 00:24

Instrument :

MSVOA_N

ClientSampled :

TRIP-BLANK

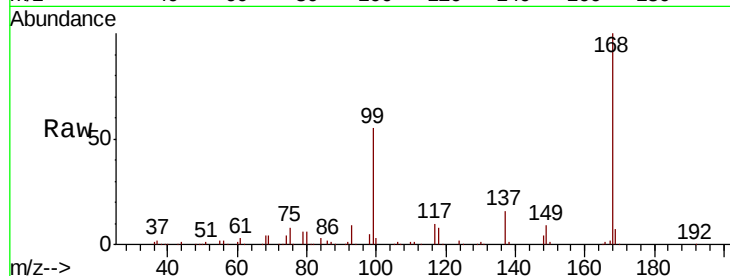
Tot Ion: 56 Resp: 11573

Ion Ratio Lower Upper

56 100

69 159.5 27.8 41.6#

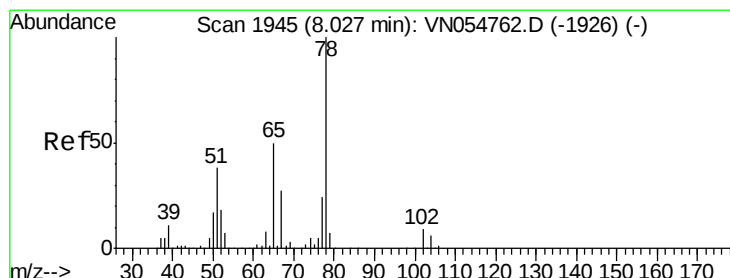
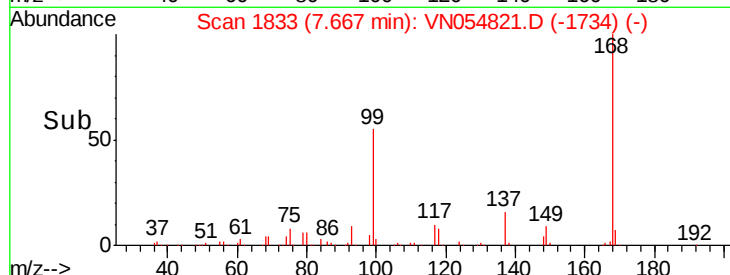
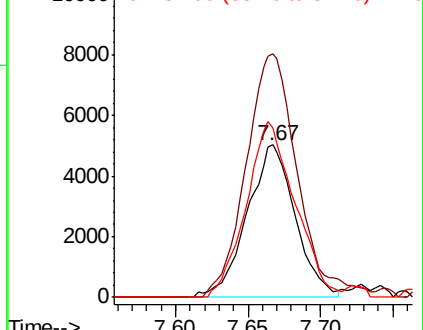
84 111.3 74.6 111.8



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 48.713 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN054821.D

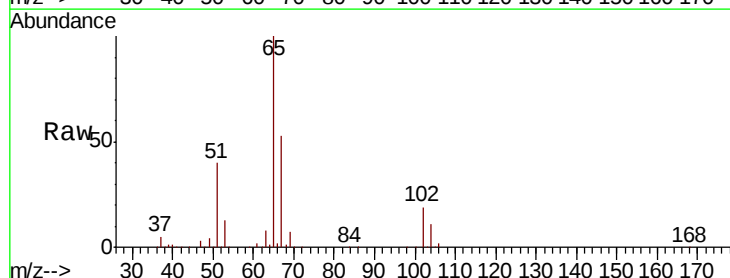
Acq: 31 Mar 2019 00:24

Tgt Ion: 65 Resp: 349638

Ion Ratio Lower Upper

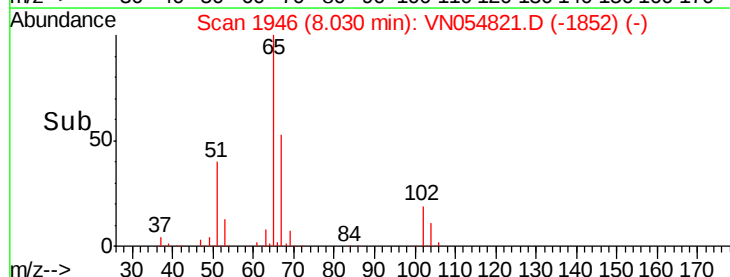
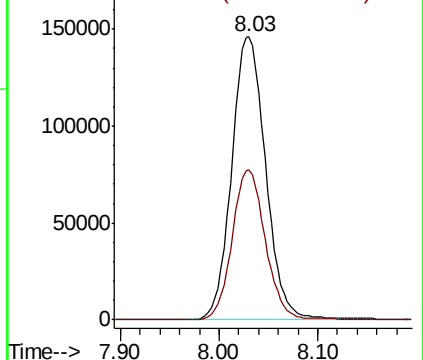
65 100

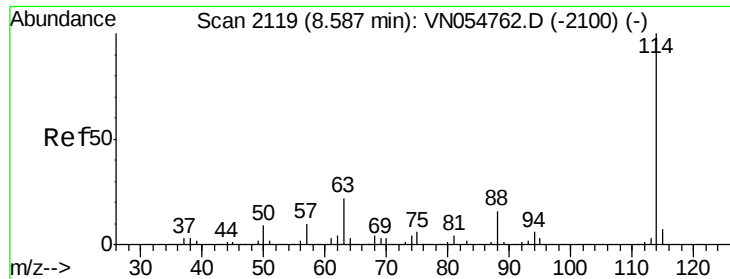
67 52.2 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN054821.D

Acq: 31 Mar 2019 00:24

Instrument :

MSVOA_N

ClientSampleId :

TRIP-BLANK

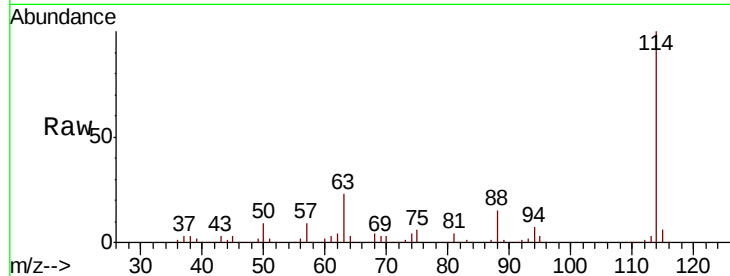
Tot Ion:114 Resp: 856531

Ion Ratio Lower Upper

114 100

63 22.6 0.0 35.2

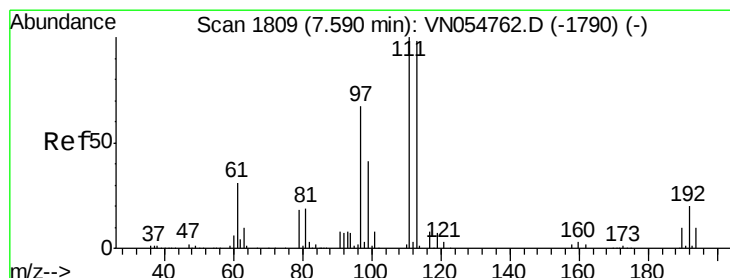
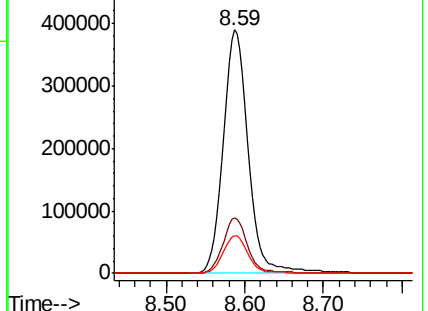
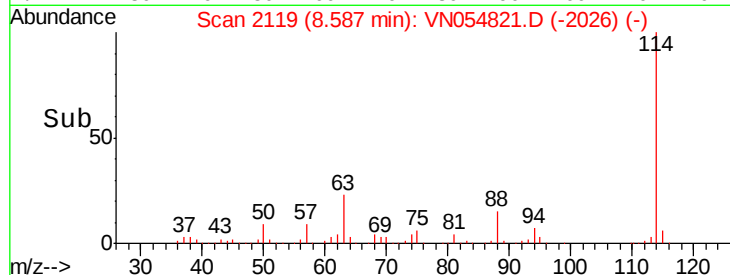
88 15.4 0.0 30.2



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: 47.421 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054821.D

Acq: 31 Mar 2019 00:24

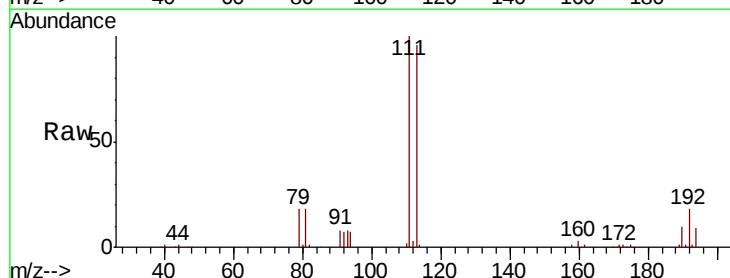
Tgt Ion:113 Resp: 270794

Ion Ratio Lower Upper

113 100

111 104.5 82.2 123.4

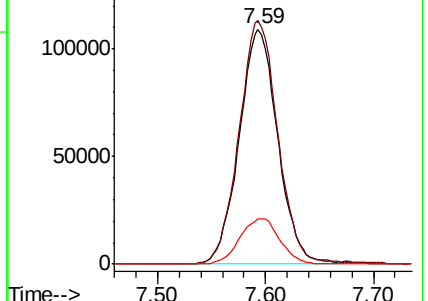
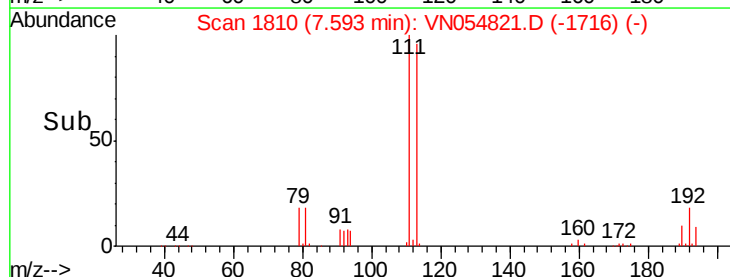
192 20.3 19.2 28.8

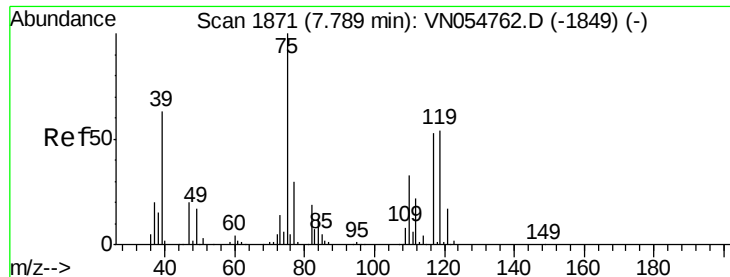


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

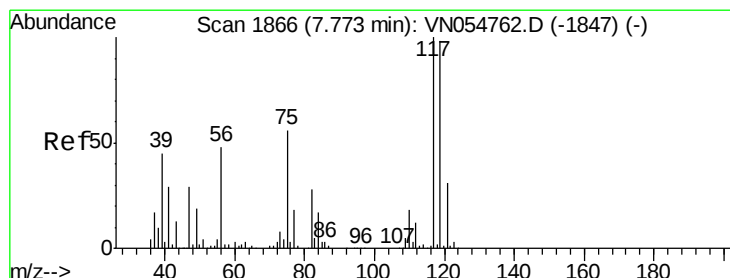
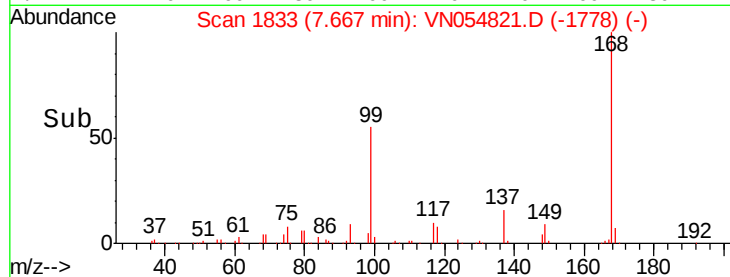
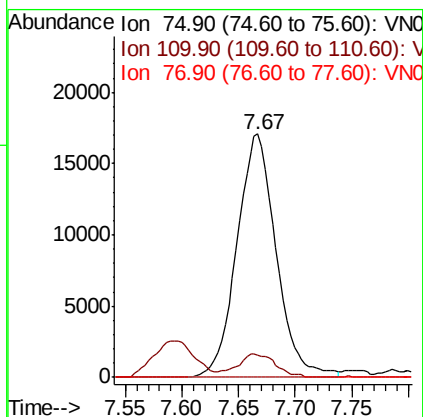
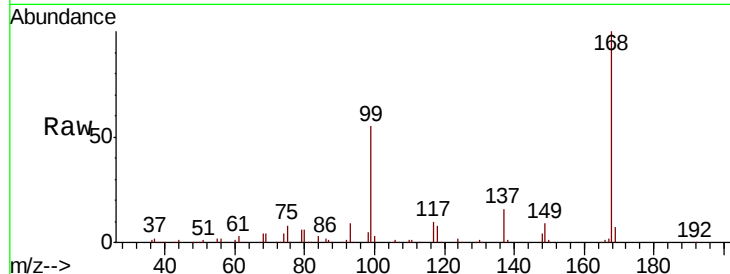




#36
 1,1-Dichloropropene
 Concen: 5.175 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054821.D
 Acq: 31 Mar 2019 00:24

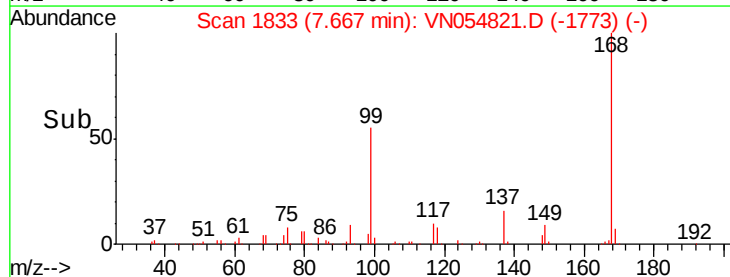
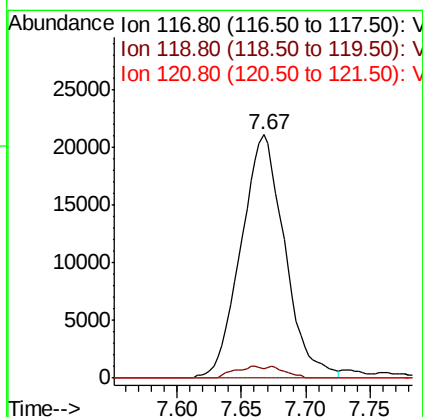
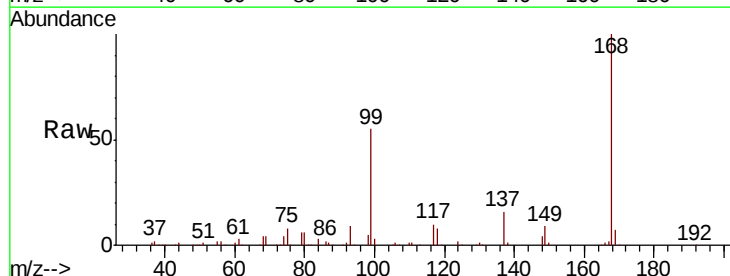
Instrument :
 MSVOA_N
 ClientSampleId :
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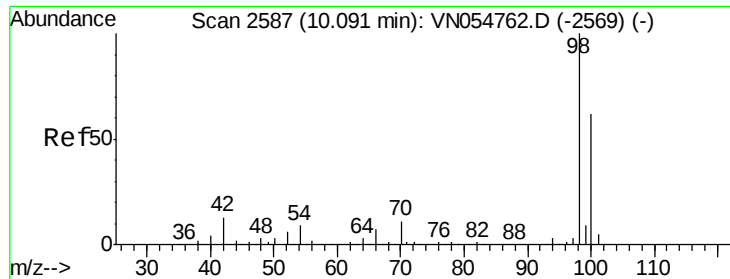
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.4	19.1	57.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.422 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN054821.D
 Acq: 31 Mar 2019 00:24

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.0	76.3	114.5#
121	0.0	24.6	36.8#





#50

Toluene-d8

Concen: 47.815 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054821.D

Acq: 31 Mar 2019 00:24

Instrument :

MSVOA_N

ClientSampleId :

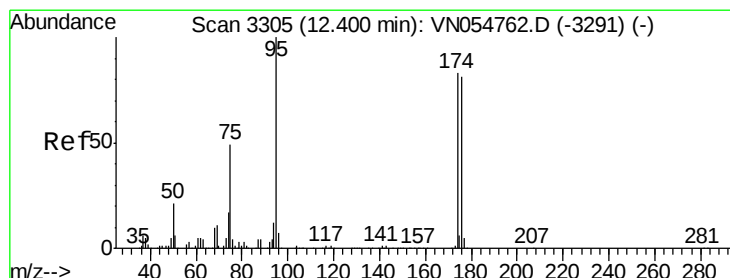
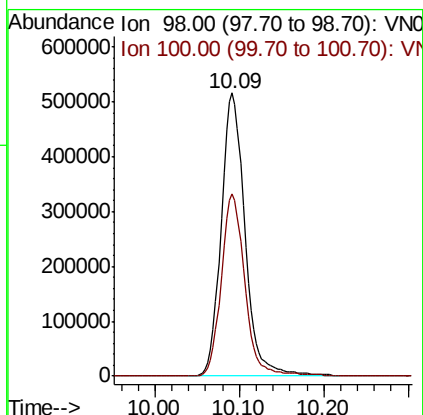
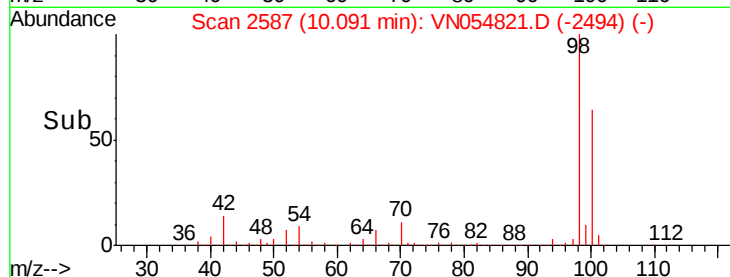
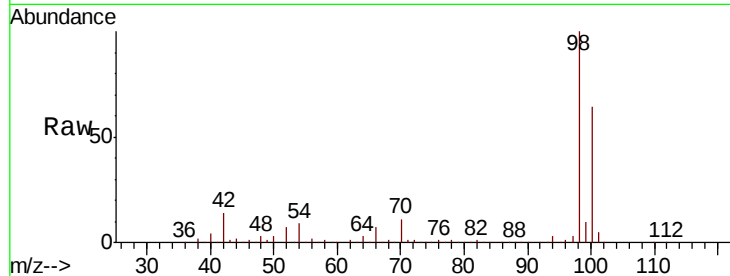
TRIP-BLANK

Tot Ion: 98 Resp: 1015119

Ion Ratio Lower Upper

98 100

100 64.0 51.2 76.8



#62

4-Bromofluorobenzene

Concen: 43.537 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054821.D

Acq: 31 Mar 2019 00:24

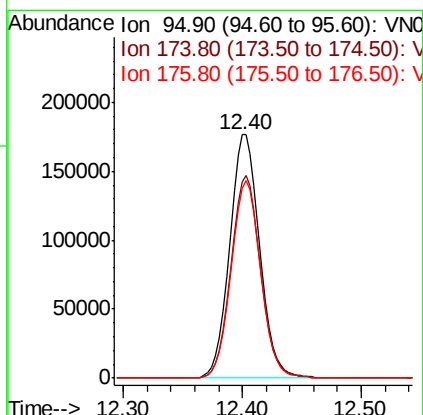
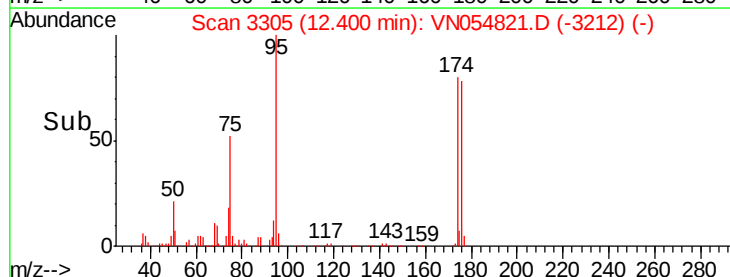
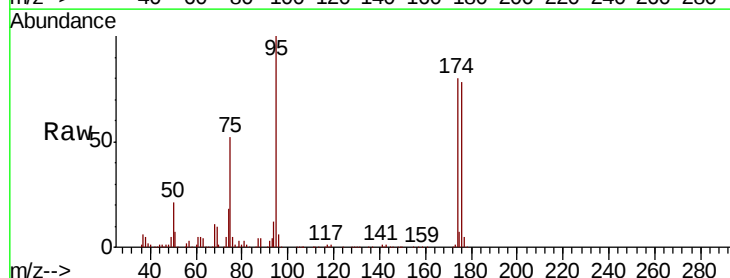
Tgt Ion: 95 Resp: 307397

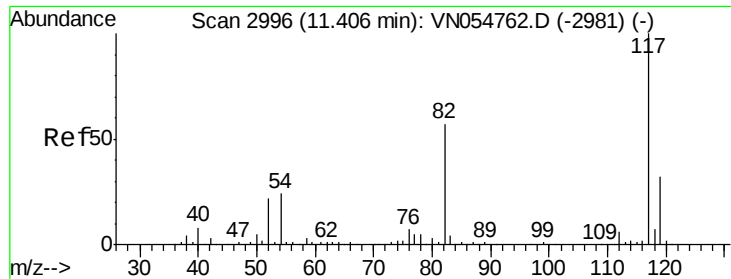
Ion Ratio Lower Upper

95 100

174 82.3 0.0 191.0

176 80.0 0.0 187.4

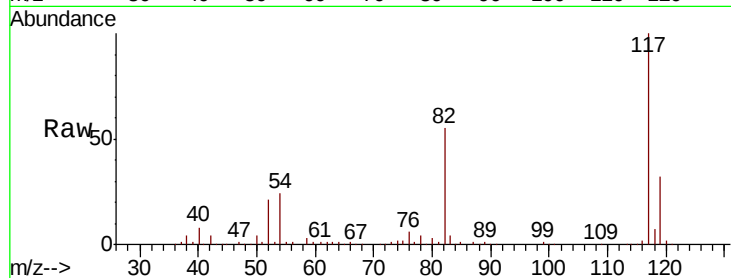




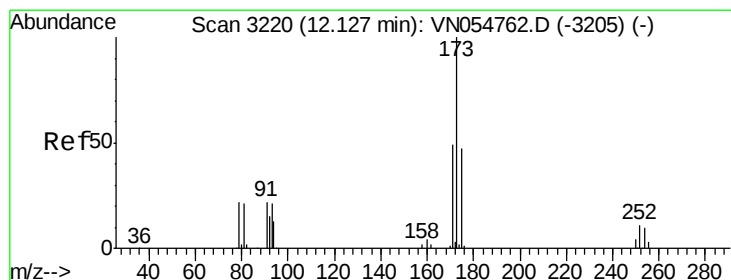
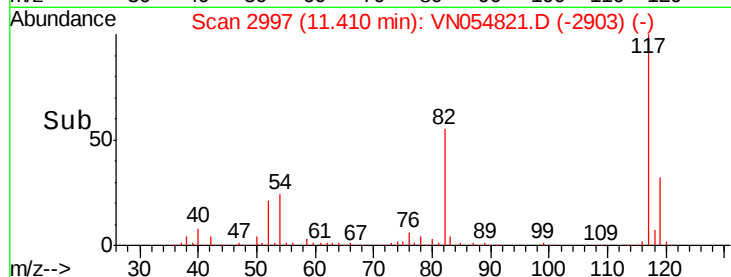
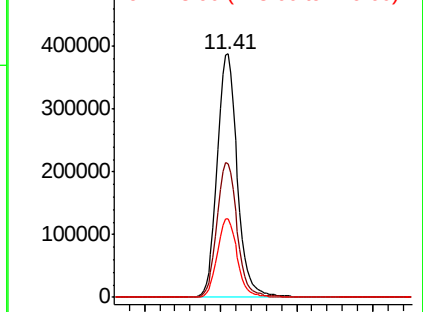
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN054821.D
Acq: 31 Mar 2019 00:24

Instrument :
MSVOA_N
ClientSampled :
TRIP-BLANK

Tot Ion:117 Resp: 712255
Ion Ratio Lower Upper
117 100
82 55.1 40.0 60.0
119 32.2 25.8 38.6

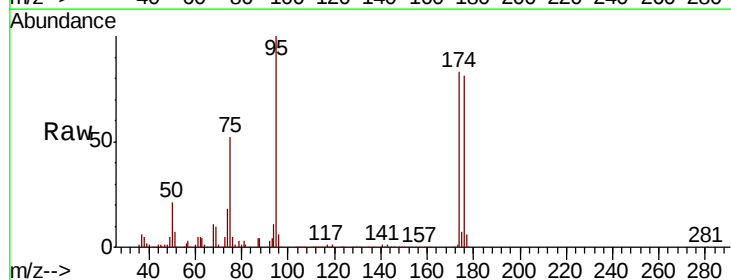


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

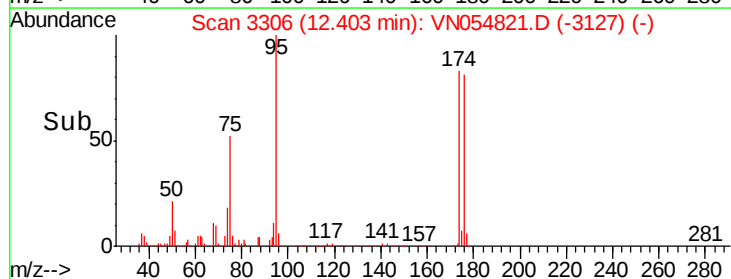
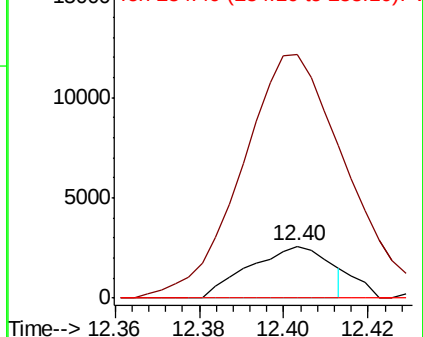


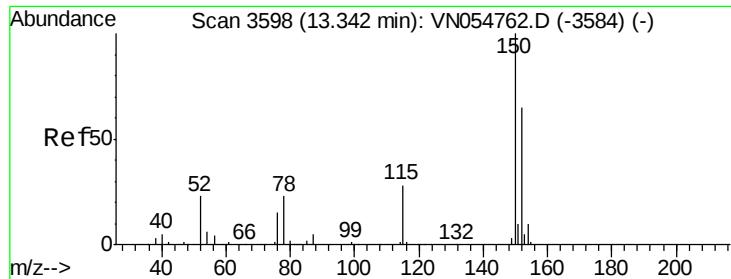
#71
Bromoform
Concen: 1.111 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN054821.D
Acq: 31 Mar 2019 00:24

Tgt Ion:173 Resp: 3396
Ion Ratio Lower Upper
173 100
175 513.2 24.4 73.2#
254 0.0 0.1 0.1#



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: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN054821.D

Acq: 31 Mar 2019 00:24

Instrument :

MSVOA_N

ClientSampleId :

TRIP-BLANK

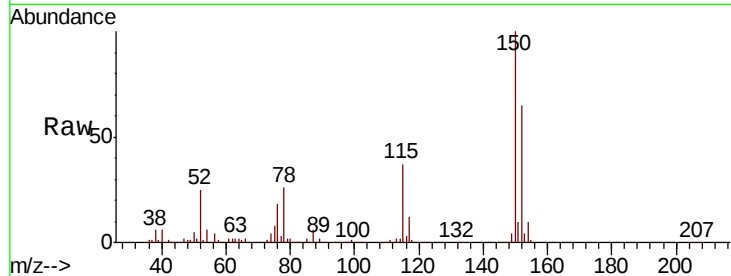
Tot Ion:152 Resp: 246897

Ion Ratio Lower Upper

152 100

115 57.5 27.2 81.6

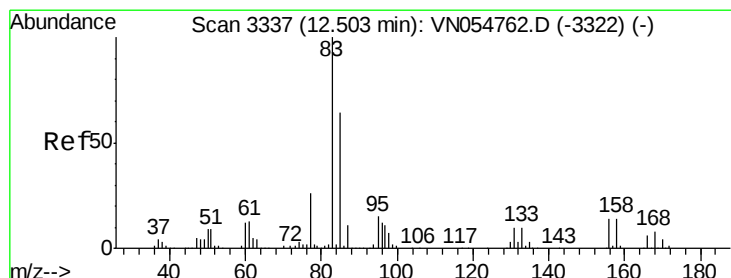
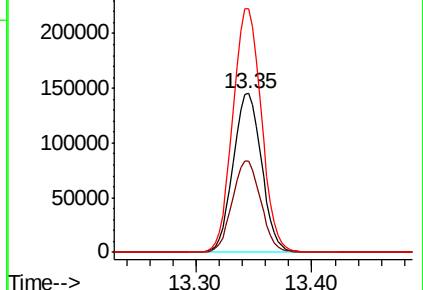
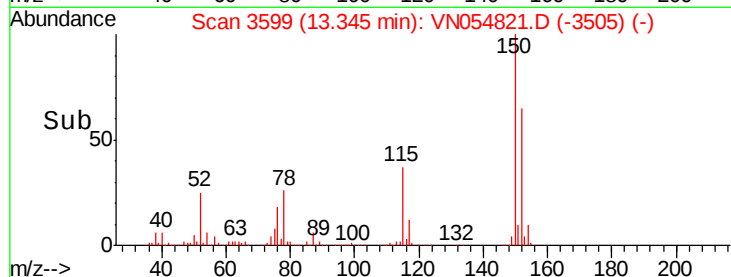
150 153.8 0.0 349.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. -0.10 min

Lab File: VN054821.D

Acq: 31 Mar 2019 00:24

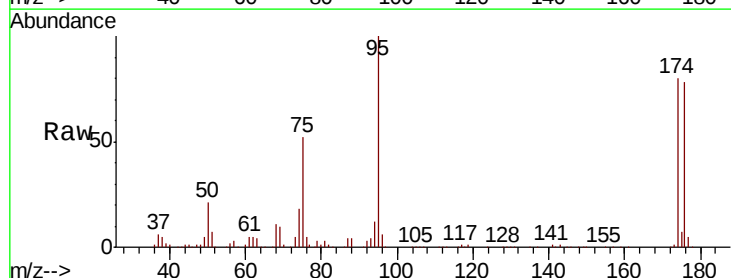
Tgt Ion: 83 Resp: 234

Ion Ratio Lower Upper

83 100

131 144.0 5.8 17.4#

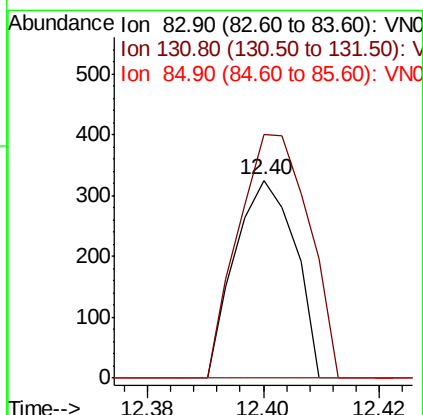
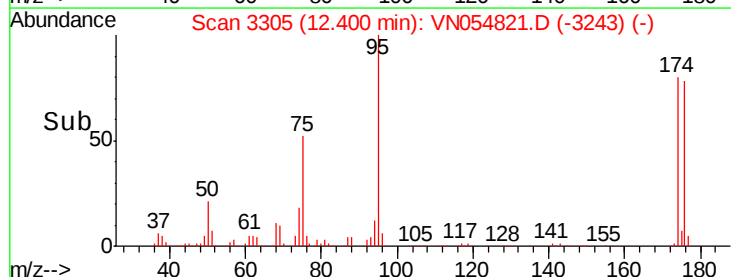
85 0.0 32.2 96.6#

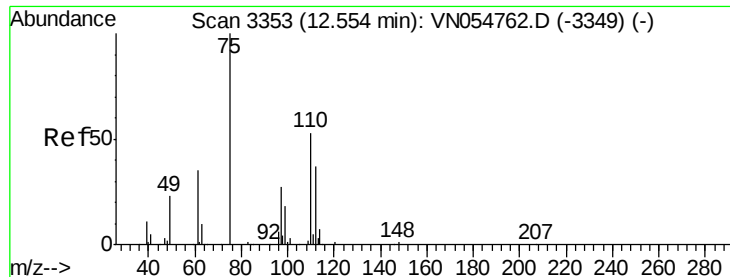


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 37.418 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN054821.D

Acq: 31 Mar 2019 00:24

Instrument :

MSVOA_N

ClientSampleId :

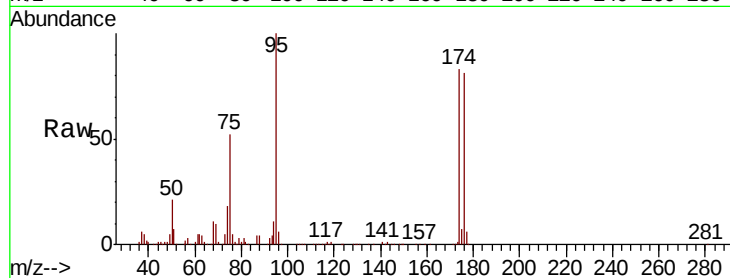
TRIP-BLANK

Tot Ion: 75 Resp: 160493

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

100000

80000

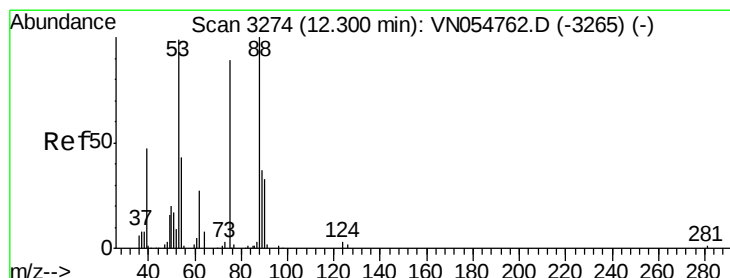
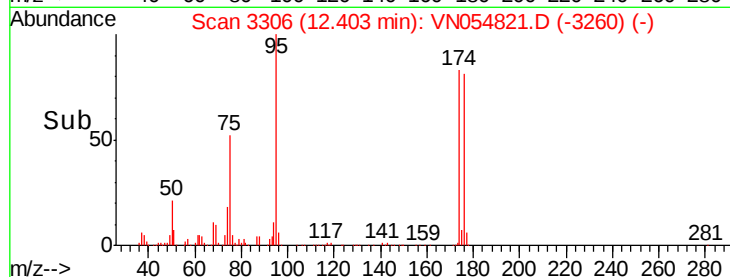
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 145.547 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN054821.D

Acq: 31 Mar 2019 00:24

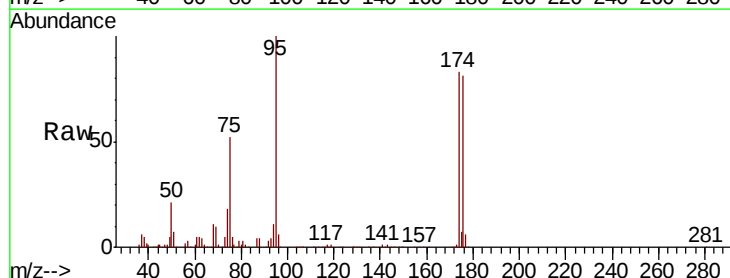
Tgt Ion: 75 Resp: 160493

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

12.40

120000

100000

80000

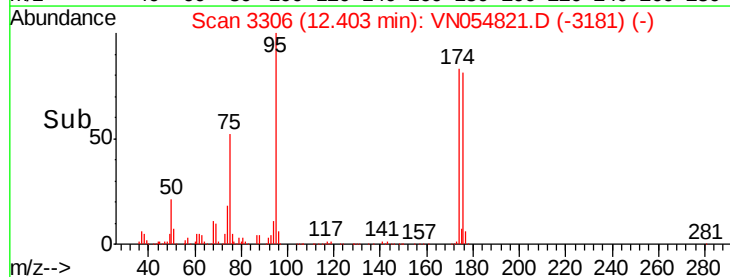
60000

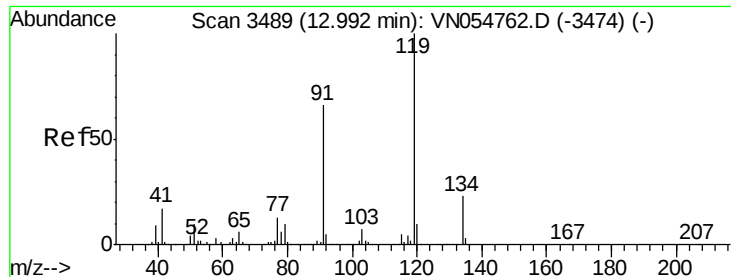
40000

20000

0

Time--> 12.30 12.40 12.50





#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN054821.D

Acq: 31 Mar 2019 00:24

Instrument :

MSVOA_N

ClientSampleId :

TRIP-BLANK

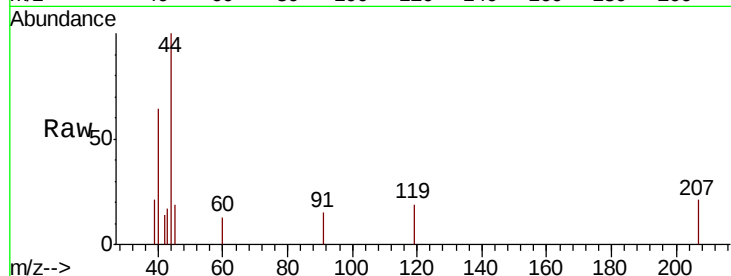
Tot Ion:119 Resp: 147

Ion Ratio Lower Upper

119 100

91 108.2 30.9 92.8#

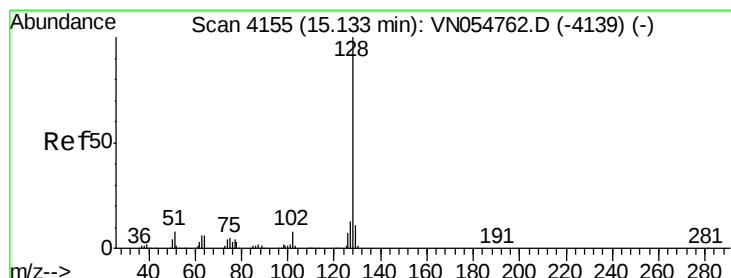
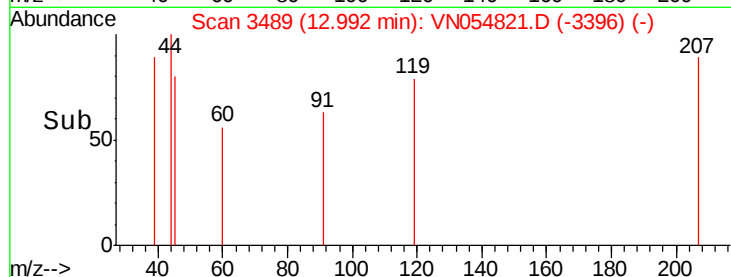
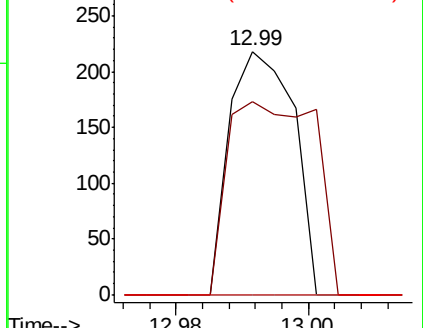
134 0.0 13.2 39.6#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#95

Naphthalene

Concen: 0.229 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN054821.D

Acq: 31 Mar 2019 00:24

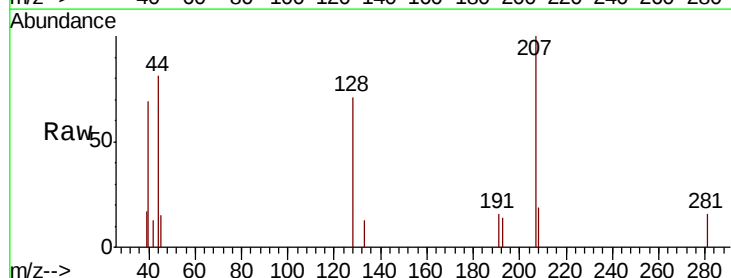
Tgt Ion:128 Resp: 2037

Ion Ratio Lower Upper

128 100

127 6.2 10.1 15.1#

129 0.0 8.7 13.1#



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

