

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110918\
 Data File : VN052247.D
 Acq On : 10 Nov 2018 00:16
 Operator : MD\SY
 Sample : J5903-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 RAV-RAINEY-AFTER

Quant Time: Nov 12 03:27:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 12 00:34:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	329792	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	552989	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	455795	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	160254	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	212892	47.20	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	94.40%	
35) Dibromofluoromethane	7.59	113	174751	48.79	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	97.58%	
50) Toluene-d8	10.09	98	681862	48.64	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	97.28%	
62) 4-Bromofluorobenzene	12.40	95	193479	42.68	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	85.36%	

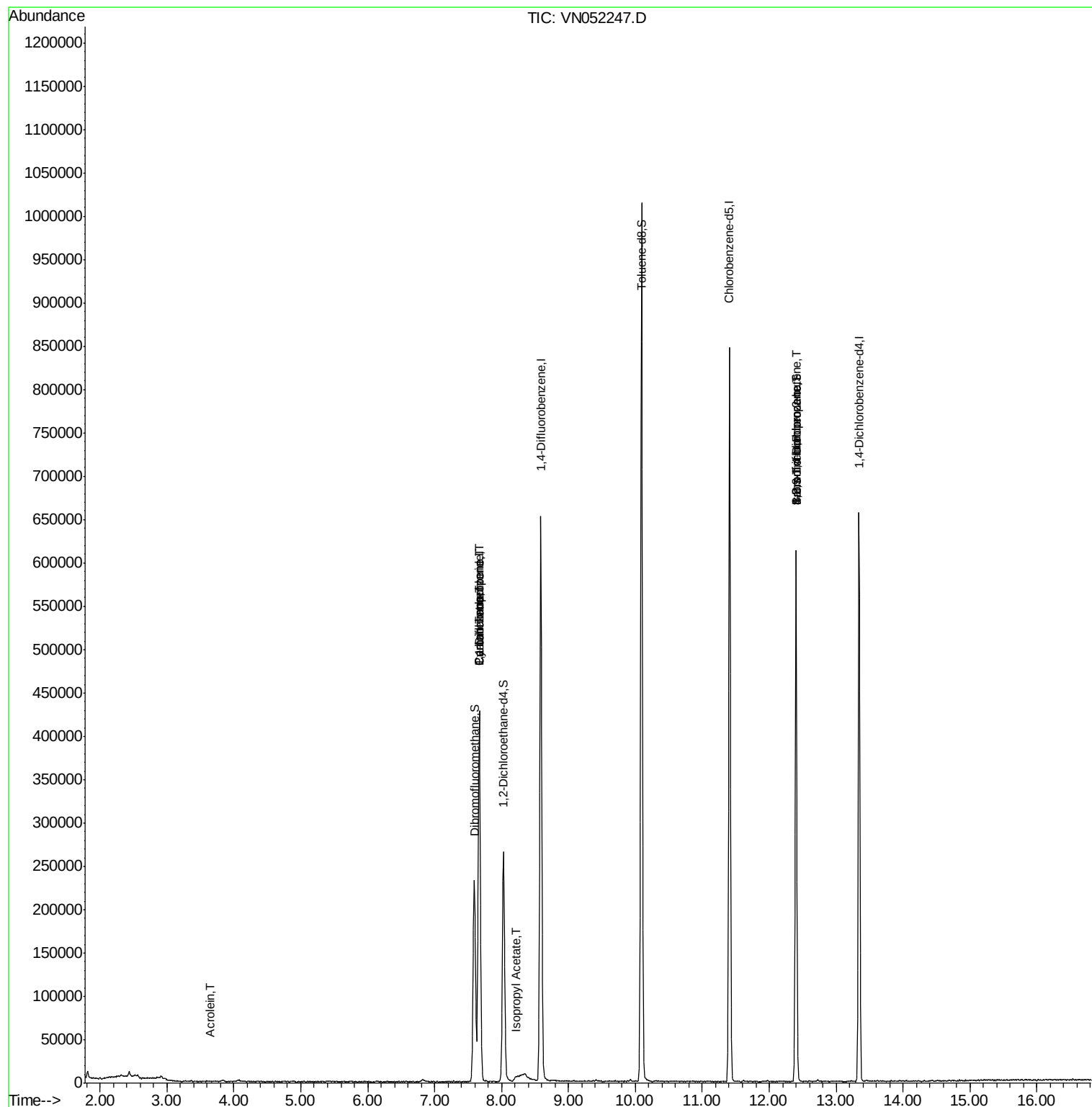
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.63	56	109	34.362	ug/l #	12
16) Acetone	3.83	43	2581	Below Cal		93
31) Cyclohexane	7.66	56	9140	0.629	ug/l #	13
36) 1,1-Dichloropropene	7.67	75	30180	5.407	ug/l #	51
38) Carbon Tetrachloride	7.67	117	34854	6.891	ug/l #	17
43) Isopropyl Acetate	8.21	43	3997	0.546	ug/l #	64
71) Bromoform	12.40	173	1203	0.616	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	106319	37.498	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	106319	127.998	ug/l #	8

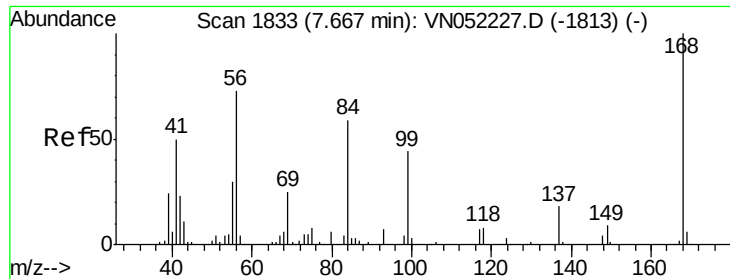
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052247.D

Acq: 10 Nov 2018 00:16

Instrument :

MSVOA_N

ClientSampleId :

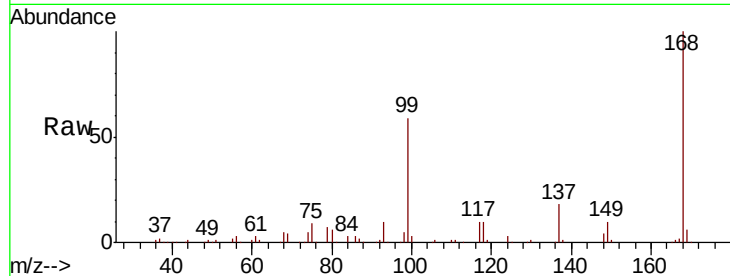
RAV-RAINEY-AFTER

Tot Ion:168 Resp: 329792

Ion Ratio Lower Upper

168 100

99 59.4 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

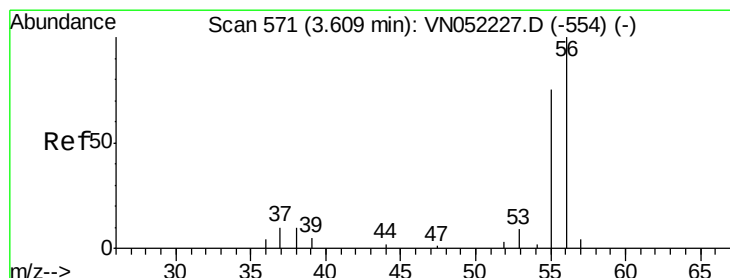
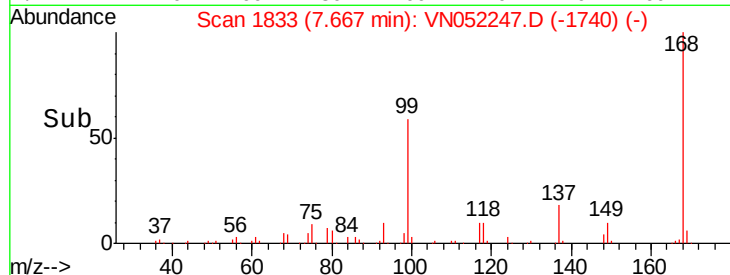
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#13

Acrolein

Concen: 34.362 ug/l

RT: 3.63 min Scan# 577

Delta R.T. 0.02 min

Lab File: VN052247.D

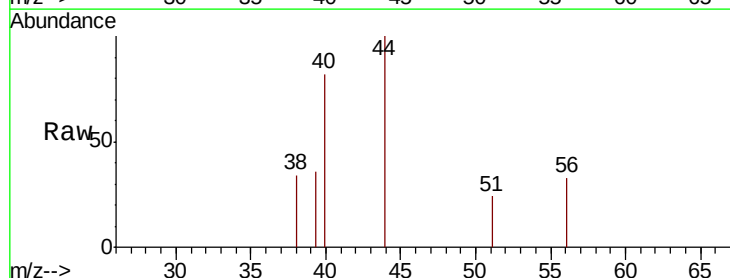
Acq: 10 Nov 2018 00:16

Tgt Ion: 56 Resp: 109

Ion Ratio Lower Upper

56 100

55 0.0 59.9 89.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.63

200

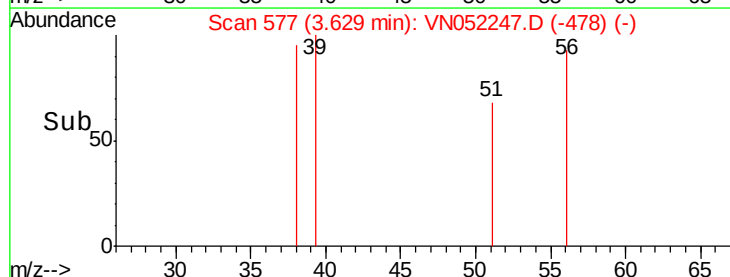
150

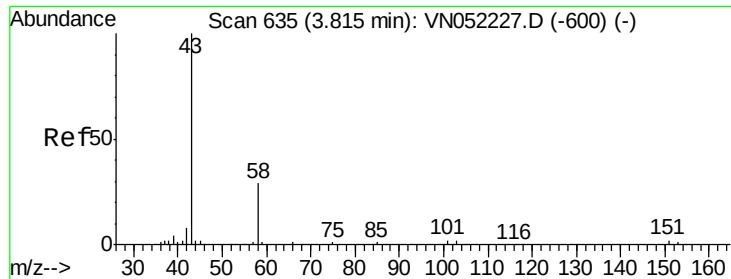
100

50

0

Time--> 3.61 3.62 3.63 3.64





#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN052247.D

Acq: 10 Nov 2018 00:16

Instrument :

MSVOA_N

ClientSampleId :

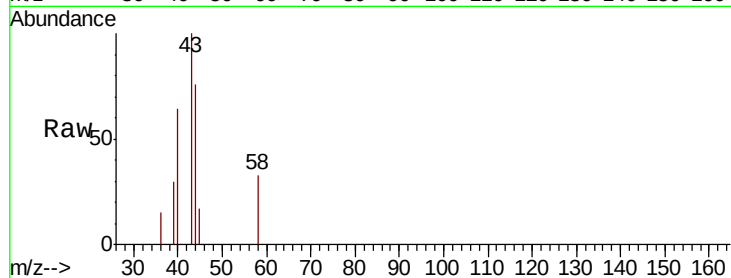
RAV-RAINEY-AFTER

Tot Ion: 43 Resp: 2581

Ion Ratio Lower Upper

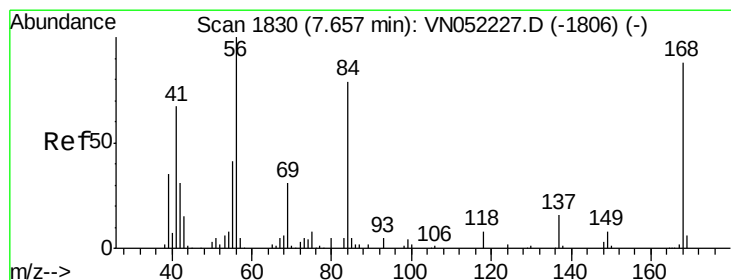
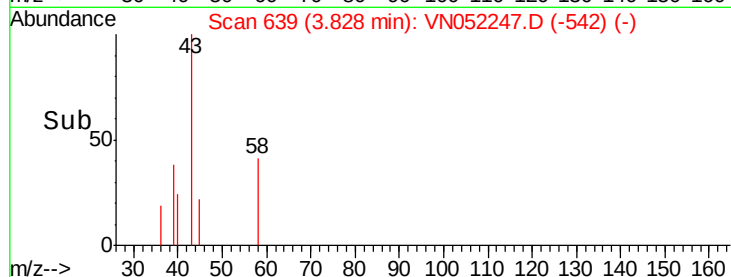
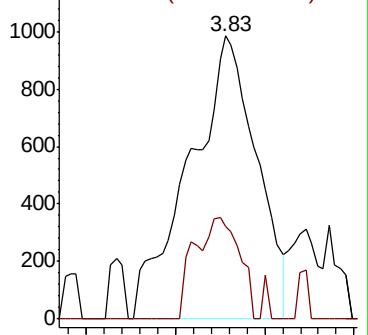
43 100

58 32.6 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#31

Cyclohexane

Concen: 0.629 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN052247.D

Acq: 10 Nov 2018 00:16

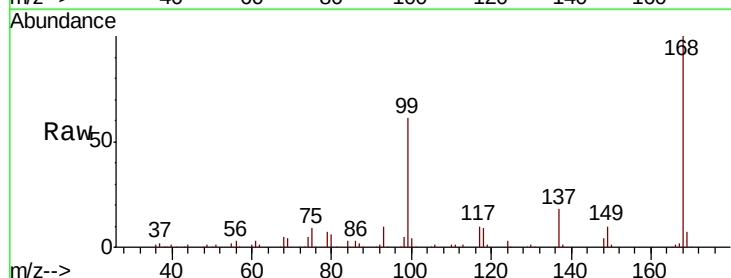
Tgt Ion: 56 Resp: 9140

Ion Ratio Lower Upper

56 100

69 148.9 24.8 37.2#

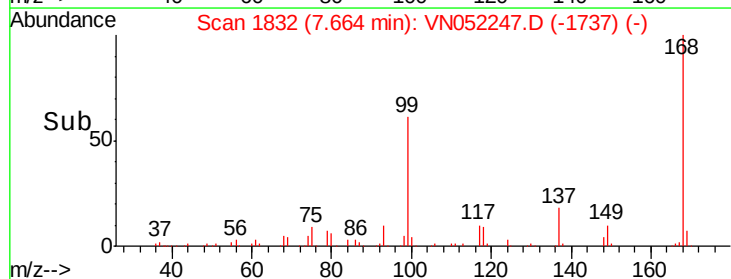
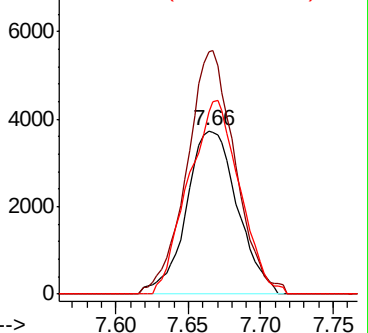
84 111.4 63.1 94.7#

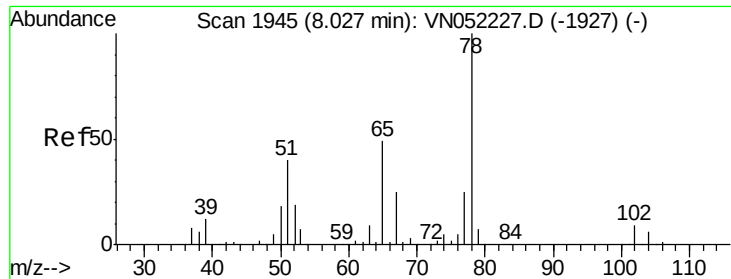


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

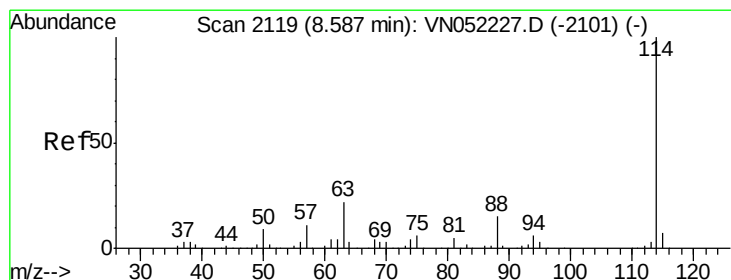
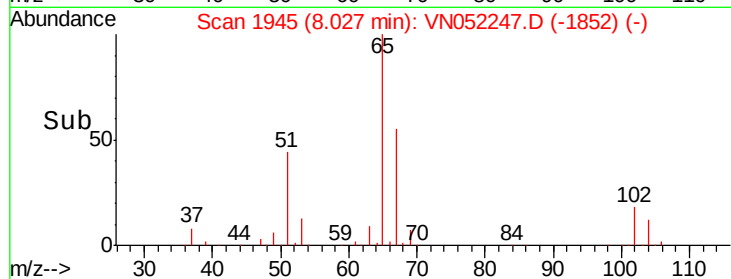
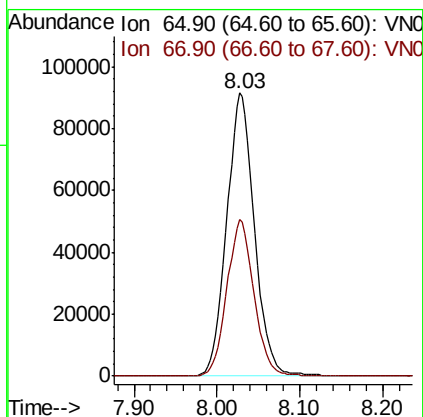
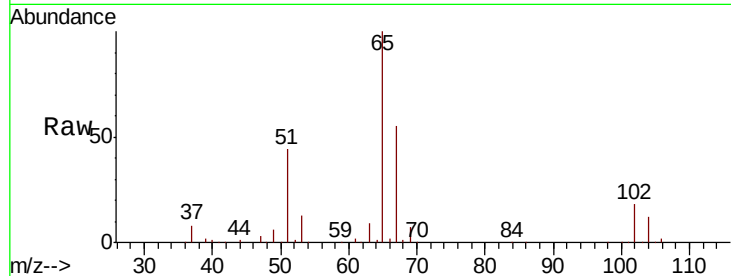




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052247.D
 Acq: 10 Nov 2018 00:16

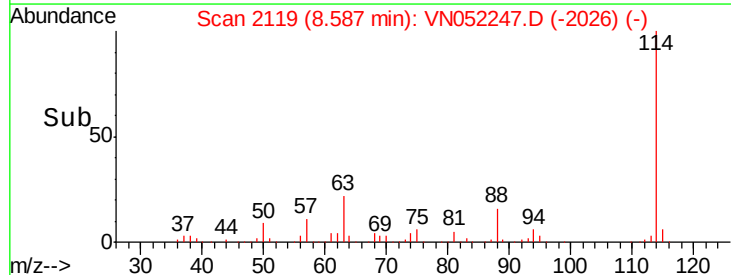
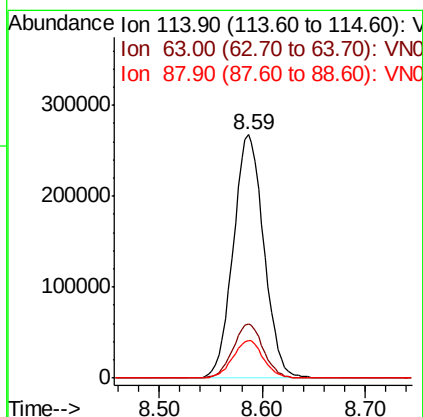
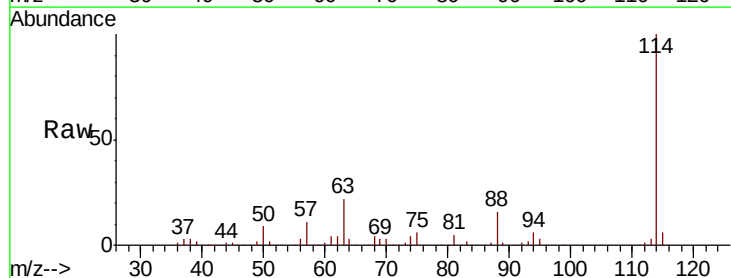
Instrument :
 MSVOA_N
 ClientSampleId :
 RAV-RAINEY-AFTER

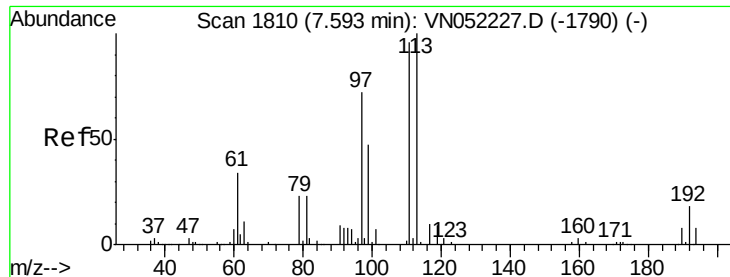
Tot Ion: 65 Resp: 212892
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052247.D
 Acq: 10 Nov 2018 00:16

Tgt Ion: 114 Resp: 552989
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 43.4
 88 15.6 0.0 30.2

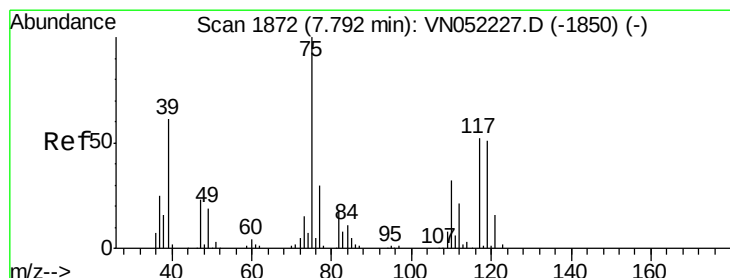
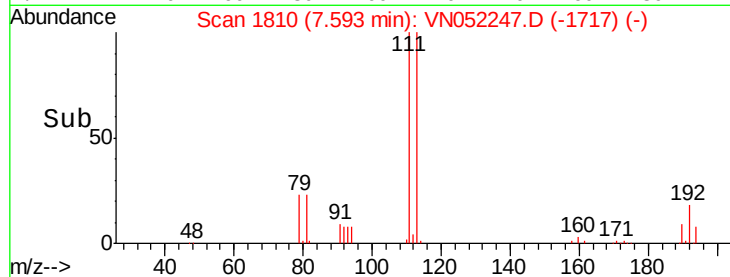
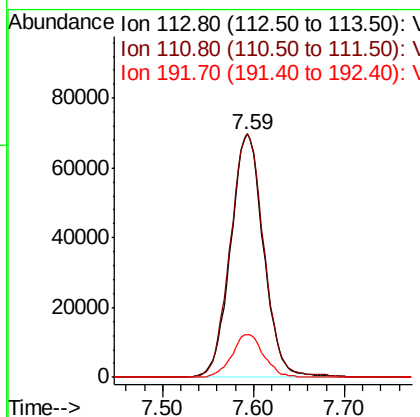
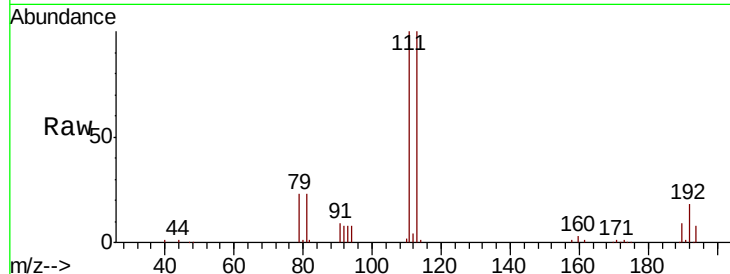




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052247.D
 Acq: 10 Nov 2018 00:16

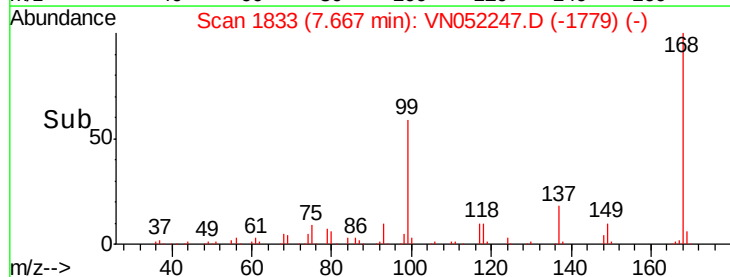
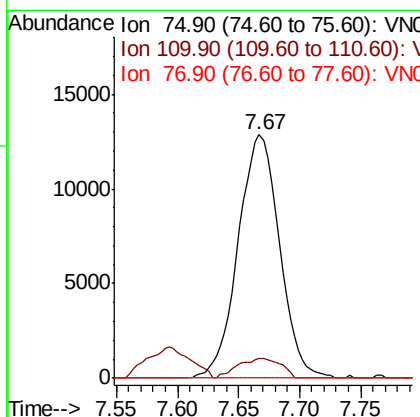
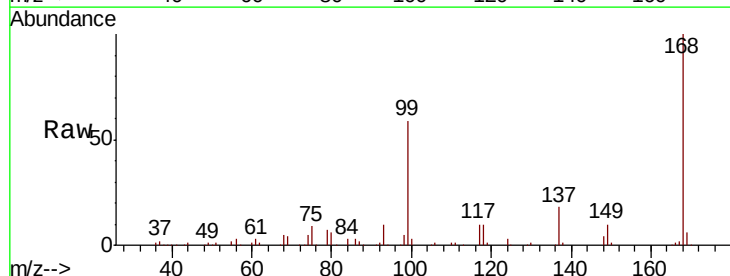
Instrument :
 MSVOA_N
 ClientSampleId :
 RAV-RAINEY-AFTER

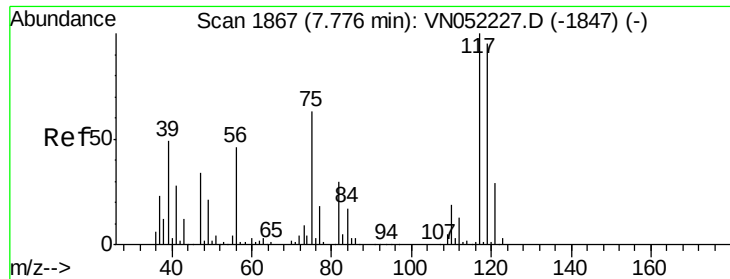
Tot Ion:113 Resp: 174751
 Ion Ratio Lower Upper
 113 100
 111 101.8 80.2 120.4
 192 17.1 14.1 21.1



#36
 1,1-Dichloropropene
 Concen: 5.407 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052247.D
 Acq: 10 Nov 2018 00:16

Tgt Ion: 75 Resp: 30180
 Ion Ratio Lower Upper
 75 100
 110 8.4 16.4 49.4#
 77 0.0 23.9 35.9#





#38

Carbon Tetrachloride

Concen: 6.891 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052247.D

Acq: 10 Nov 2018 00:16

Instrument :

MSVOA_N

ClientSampleId :

RAV-RAINEY-AFTER

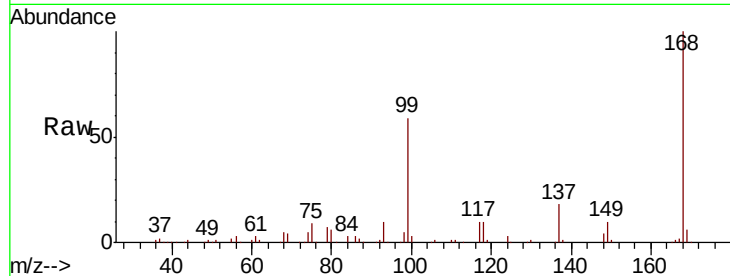
Tot Ion:117 Resp: 34854

Ion Ratio Lower Upper

117 100

119 5.3 75.8 113.8#

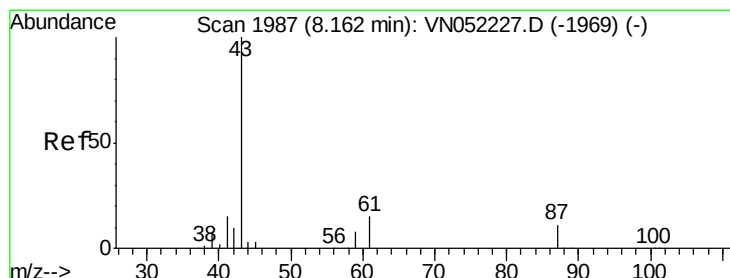
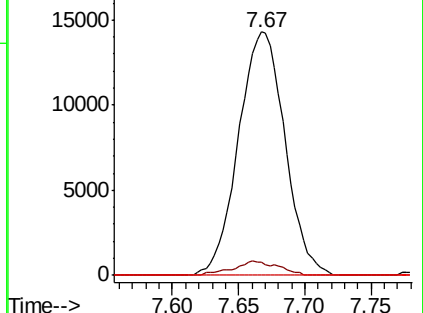
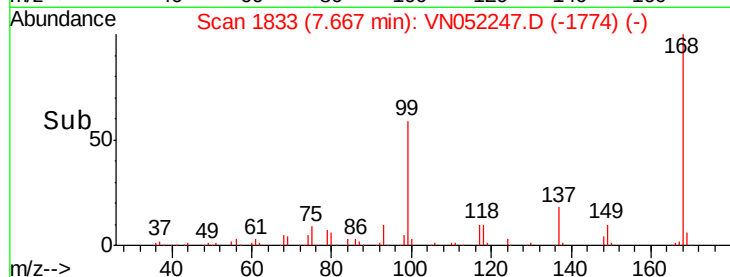
121 0.0 23.4 35.2#



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: 0.546 ug/l

RT: 8.21 min Scan# 2001

Delta R.T. 0.05 min

Lab File: VN052247.D

Acq: 10 Nov 2018 00:16

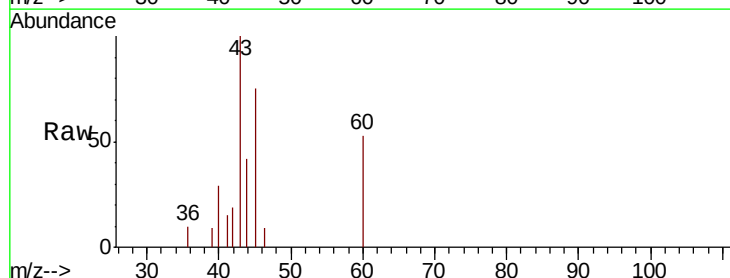
Tgt Ion: 43 Resp: 3997

Ion Ratio Lower Upper

43 100

61 0.0 14.2 21.4#

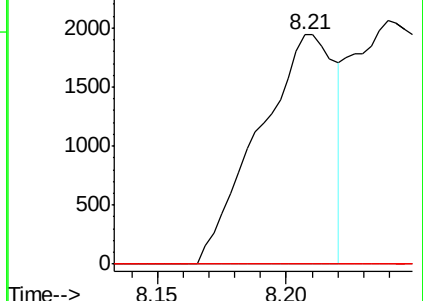
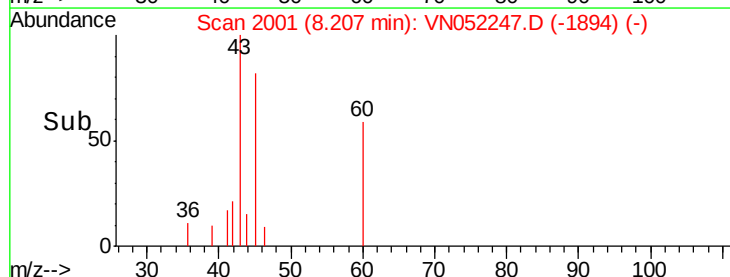
87 0.0 8.4 12.6#

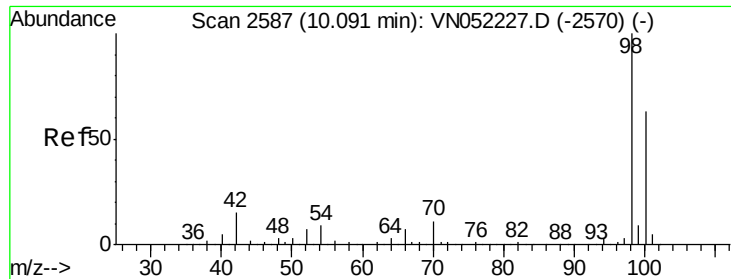


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052247.D

Acq: 10 Nov 2018 00:16

Instrument :

MSVOA_N

ClientSampleId :

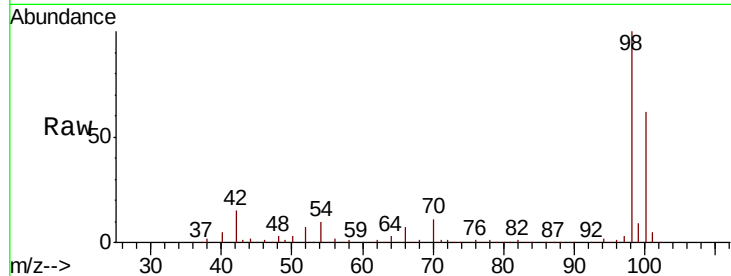
RAV-RAINEY-AFTER

Tot Ion: 98 Resp: 681862

Ion Ratio Lower Upper

98 100

100 62.6 50.2 75.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

400000

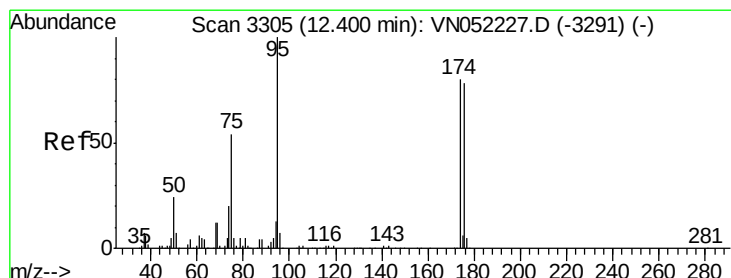
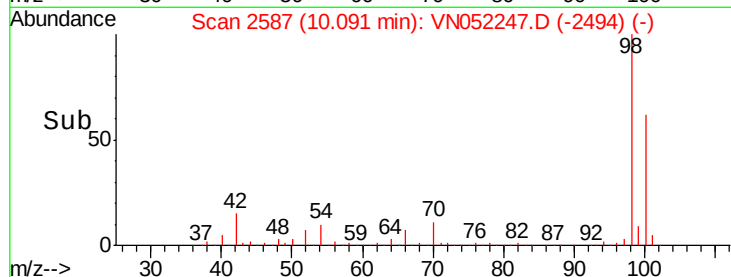
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052247.D

Acq: 10 Nov 2018 00:16

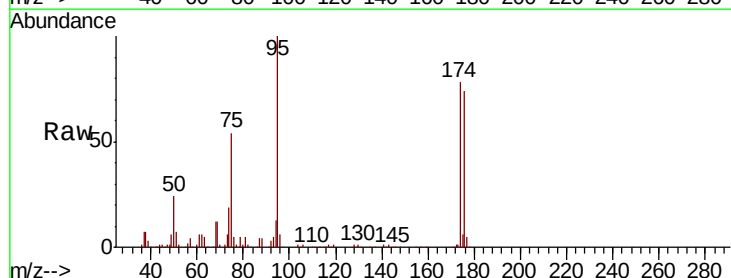
Tgt Ion: 95 Resp: 193479

Ion Ratio Lower Upper

95 100

174 79.6 0.0 159.4

176 75.8 0.0 157.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

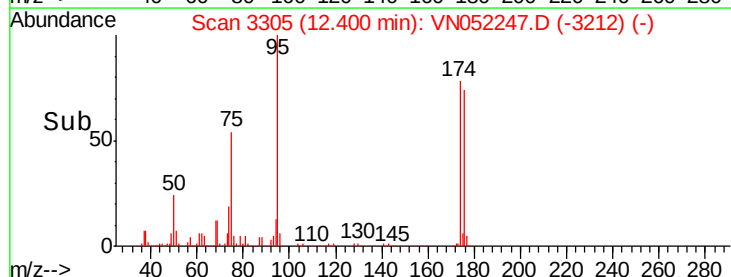
150000

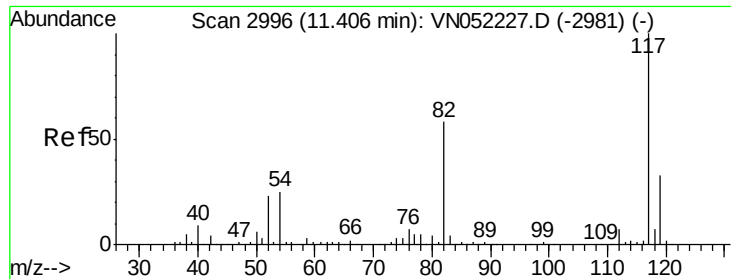
100000

50000

0

Time-->

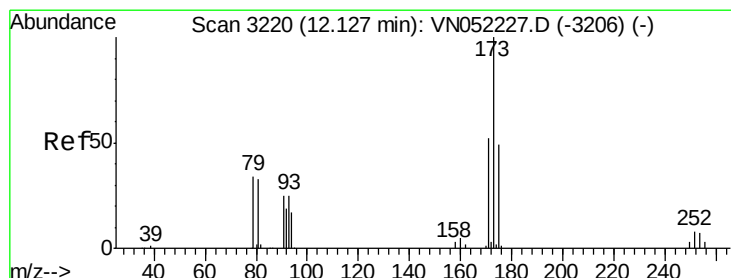
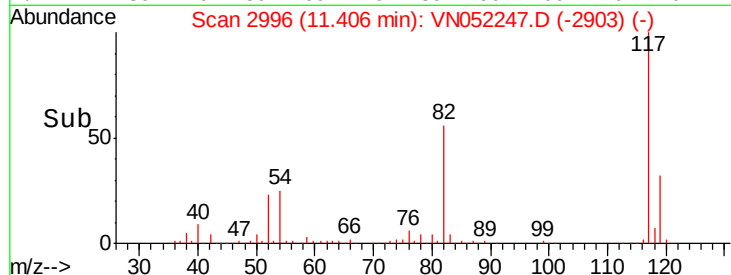
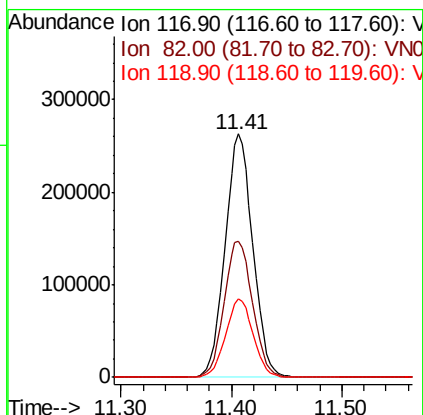
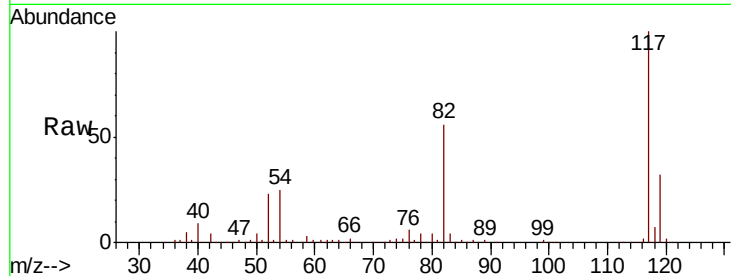




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052247.D
Acq: 10 Nov 2018 00:16

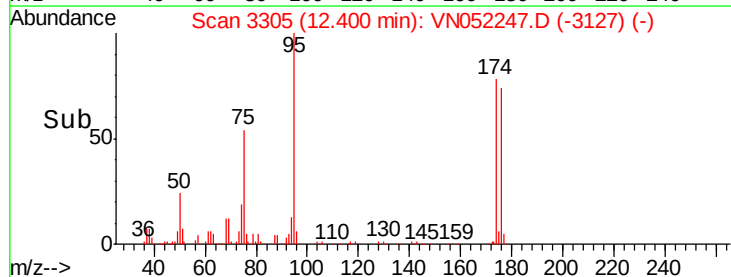
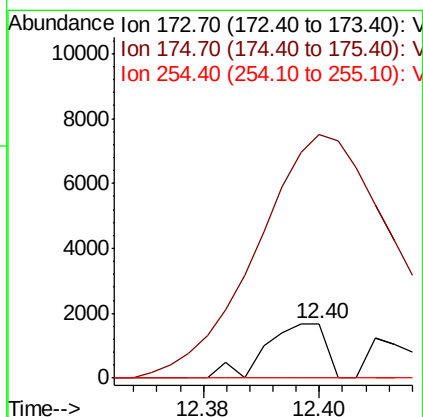
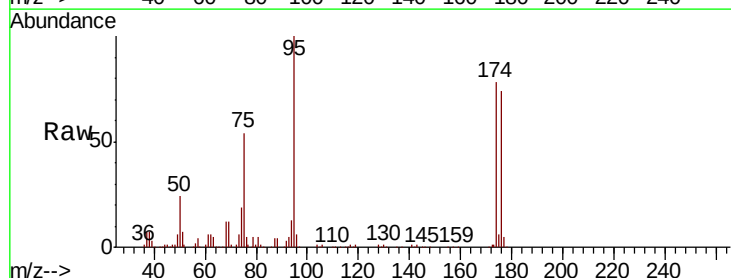
Instrument :
MSVOA_N
ClientSampleId :
RAV-RAINEY-AFTER

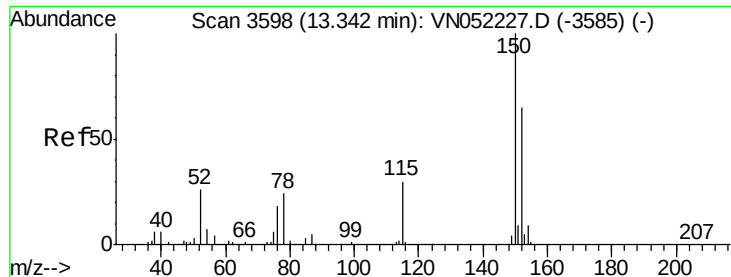
Tot Ion:117 Resp: 455795
Ion Ratio Lower Upper
117 100
82 56.0 46.2 69.2
119 32.1 26.2 39.4



#71
Bromoform
Concen: 0.616 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN052247.D
Acq: 10 Nov 2018 00:16

Tgt Ion:173 Resp: 1203
Ion Ratio Lower Upper
173 100
175 901.3 24.5 73.5#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052247.D

Acq: 10 Nov 2018 00:16

Instrument :

MSVOA_N

ClientSampleId :

RAV-RAINEY-AFTER

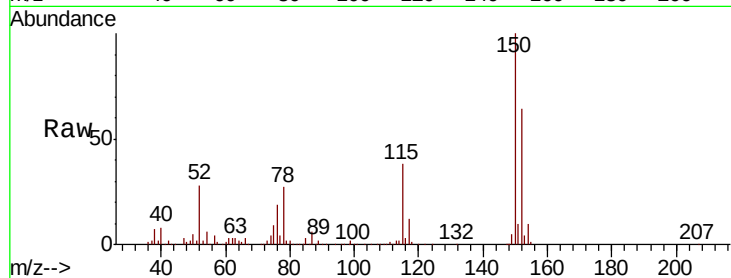
Tot Ion:152 Resp: 160254

Ion Ratio Lower Upper

152 100

115 60.1 29.8 89.5

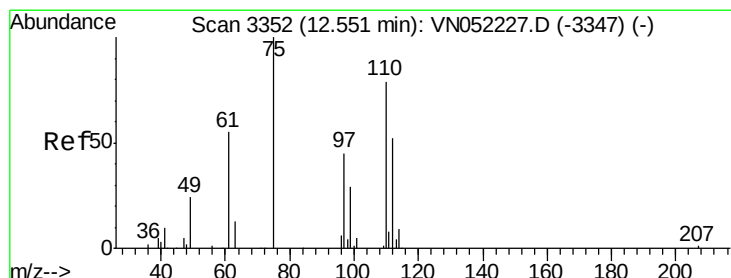
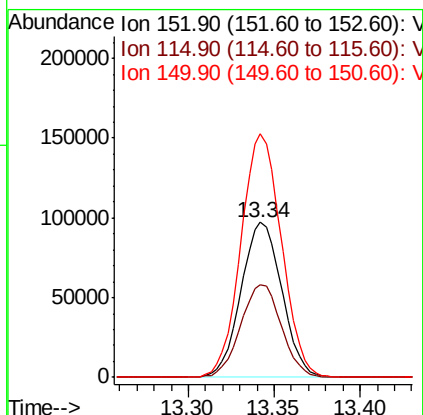
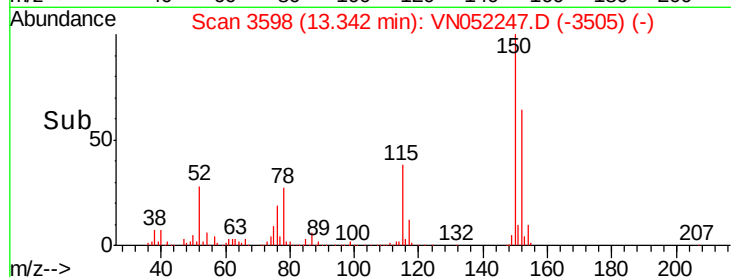
150 156.1 0.0 350.2



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



#76

1,2,3-Trichloropropane

Concen: 37.498 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052247.D

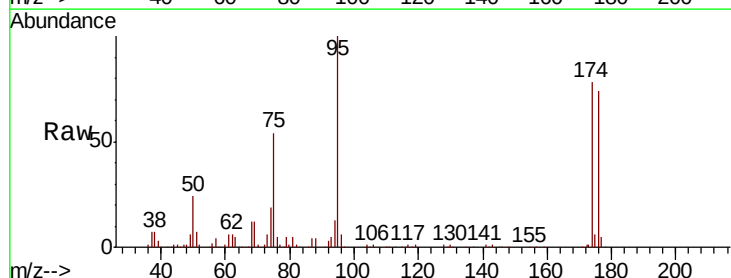
Acq: 10 Nov 2018 00:16

Tgt Ion: 75 Resp: 106319

Ion Ratio Lower Upper

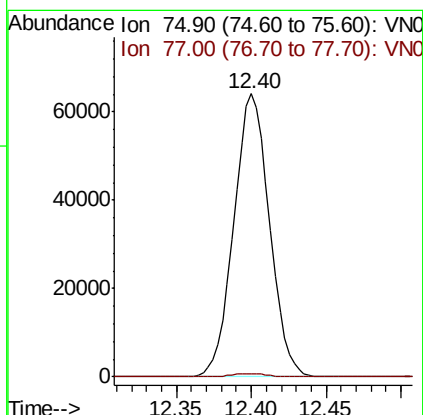
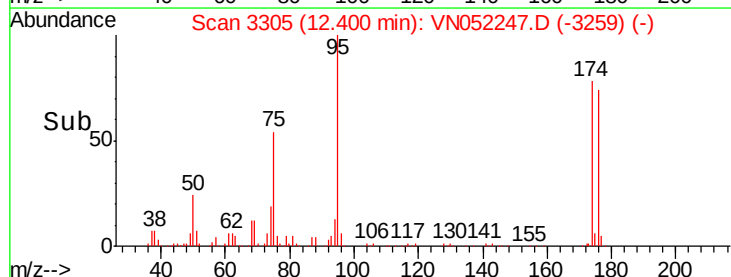
75 100

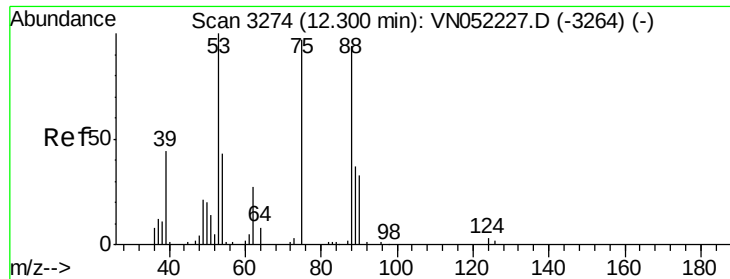
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 127.998 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052247.D

Acq: 10 Nov 2018 00:16

Instrument :

MSVOA_N

ClientSampleId :

RAV-RAINEY-AFTER

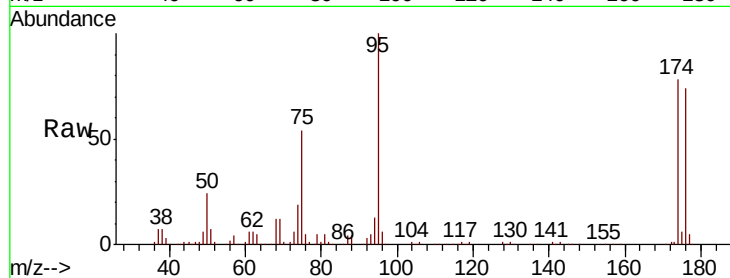
Tot Ion: 75 Resp: 106319

Ion Ratio Lower Upper

75 100

53 0.0 84.0 126.0#

89 0.0 33.7 50.5#



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

