

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033019\
 Data File : VN054822.D
 Acq On : 31 Mar 2019 00:51
 Operator : JC/SP
 Sample : K2164-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
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Quant Time: Mar 31 04:42:53 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	517613	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	857662	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	718031	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	258887	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	351787	50.42	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.84%	
35) Dibromofluoromethane	7.59	113	275337	48.15	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	96.30%	
50) Toluene-d8	10.09	98	1016845	47.83	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	95.66%	
62) 4-Bromofluorobenzene	12.40	95	312491	44.20	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	88.40%	

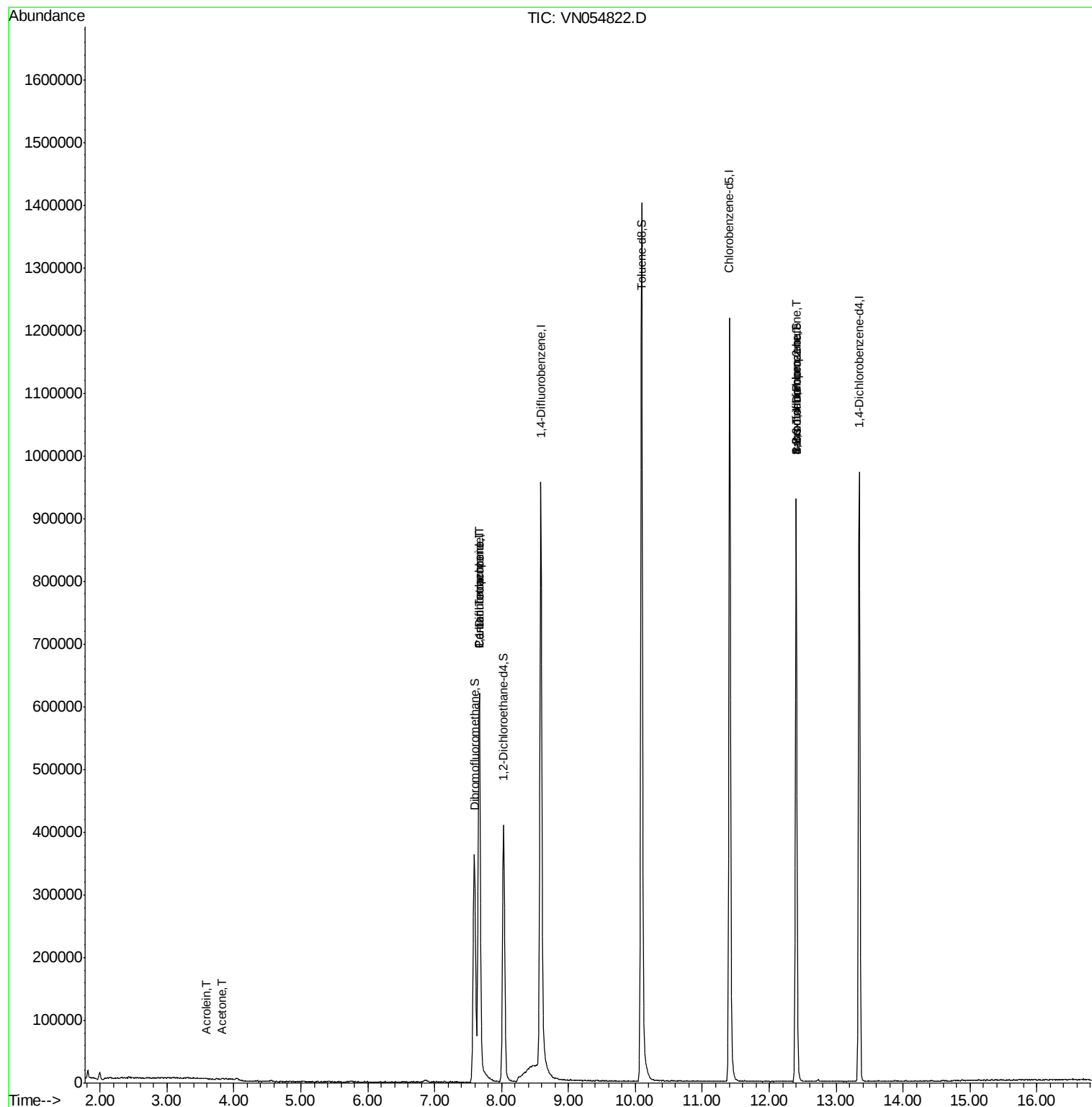
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	348	Below Cal		83
13) Acrolein	3.60	56	92	0.283	ug/l #	1
16) Acetone	3.83	43	767	0.461	ug/l #	69
18) Methyl Acetate	4.33	43	1829	Below Cal	#	66
31) Cyclohexane	7.66	56	11862	Below Cal	#	25
36) 1,1-Dichloropropene	7.66	75	39482	4.940	ug/l #	48
38) Carbon Tetrachloride	7.66	117	49701	6.403	ug/l #	17
71) Bromoform	12.41	173	3485	1.131	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.42	83	68	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	163876	36.437	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	163876	141.732	ug/l #	11
83) tert-Butylbenzene	13.01	119	60	Below Cal	#	28

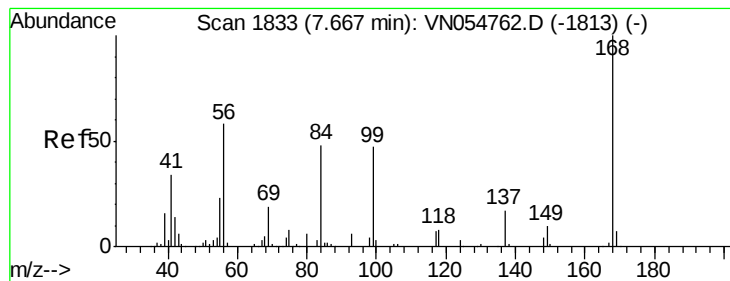
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN054822.D

Acq: 31 Mar 2019 00:51

Instrument :

MSVOA_N

ClientSampleId :

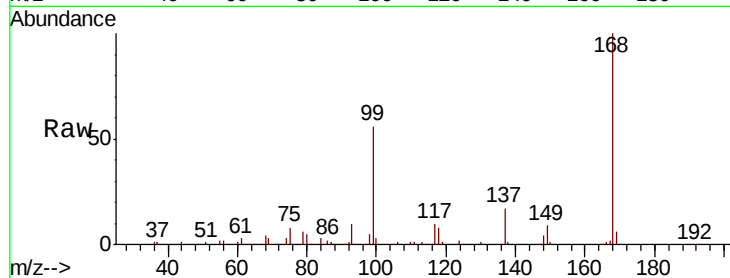
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Tot Ion:168 Resp: 517613

Ion Ratio Lower Upper

168 100

99 56.1 37.1 55.7#



Abundance Ion 167.90 (167.60 to 168.60): VN054822.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN054822.D (-1740) (-)

7.67

250000

200000

150000

100000

50000

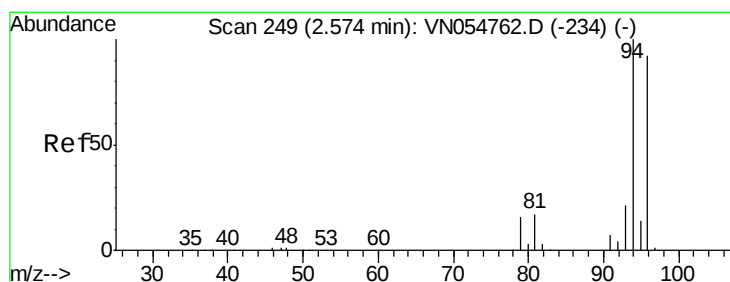
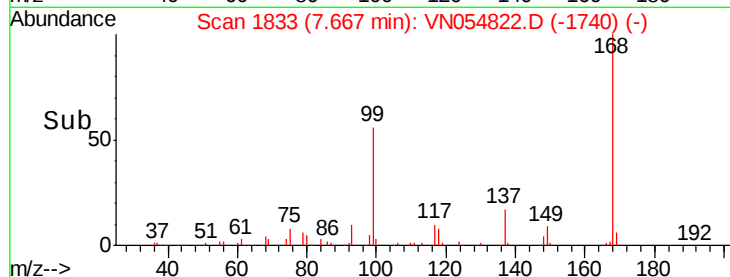
0

Time-->

7.60

7.70

7.80



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 249

Delta R.T. -0.00 min

Lab File: VN054822.D

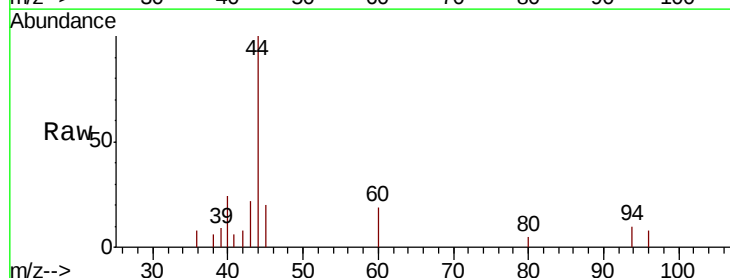
Acq: 31 Mar 2019 00:51

Tgt Ion: 94 Resp: 348

Ion Ratio Lower Upper

94 100

96 79.9 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VN054822.D (-156) (-)

Ion 95.90 (95.60 to 96.60): VN054822.D (-156) (-)

2.57

400

300

200

100

0

Time-->

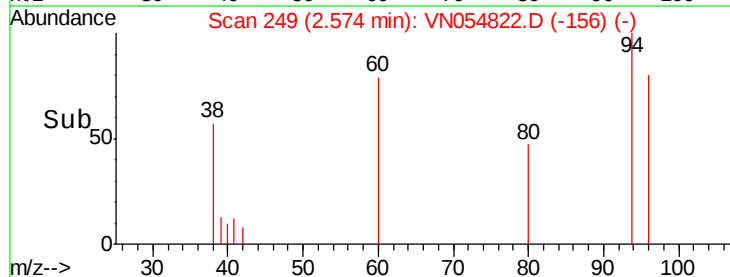
2.55

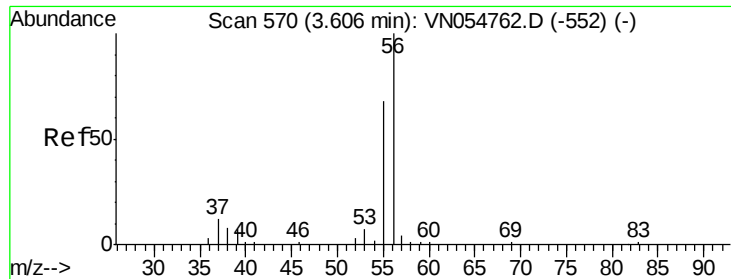
2.56

2.57

2.58

2.59





#13

Acrolein

Concen: 0.283 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN054822.D

Acq: 31 Mar 2019 00:51

Instrument :

MSVOA_N

ClientSampled :

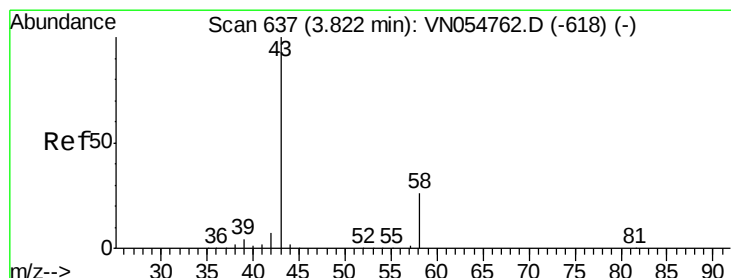
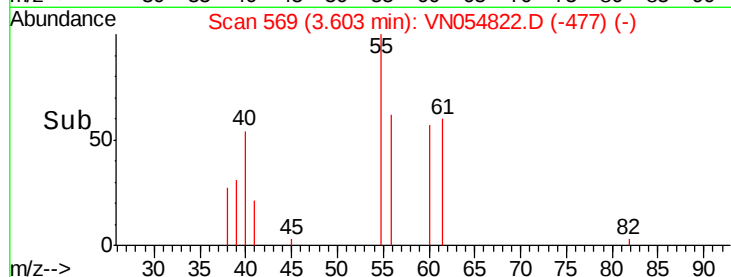
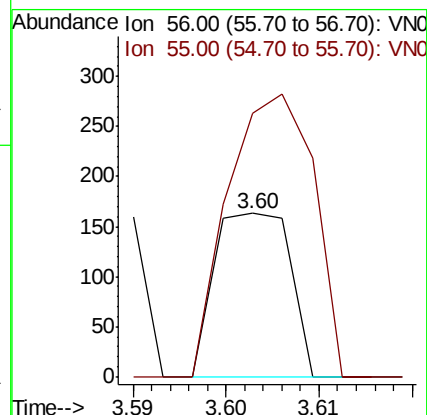
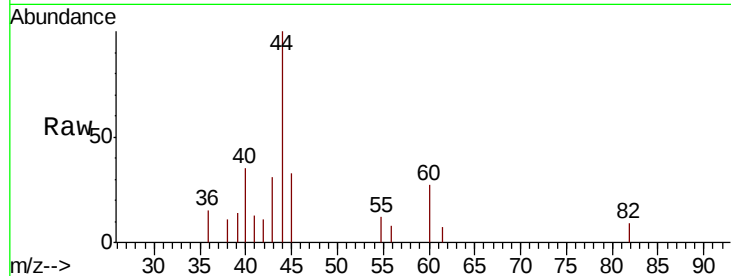
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Tot Ion: 56 Resp: 92

Ion Ratio Lower Upper

56 100

55 196.7 56.7 85.1#



#16

Acetone

Concen: 0.461 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN054822.D

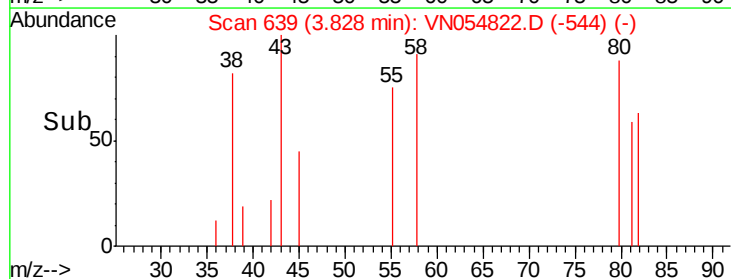
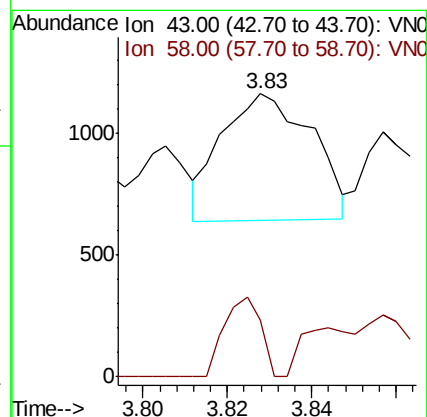
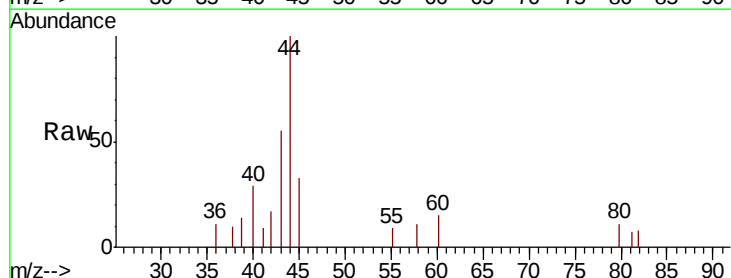
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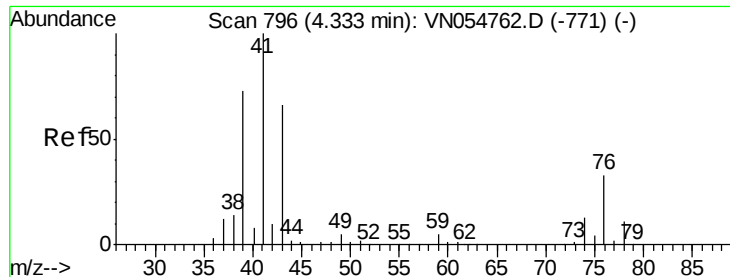
Tgt Ion: 43 Resp: 767

Ion Ratio Lower Upper

43 100

58 56.1 29.9 44.9#

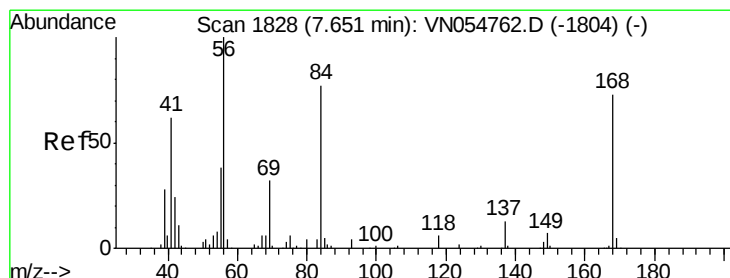
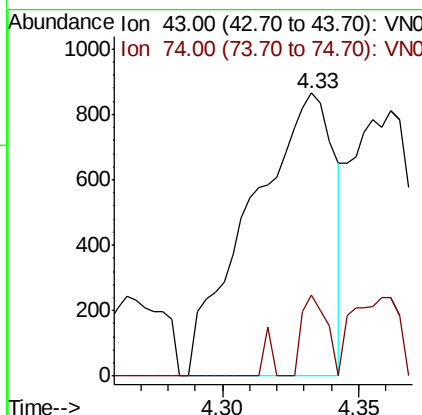
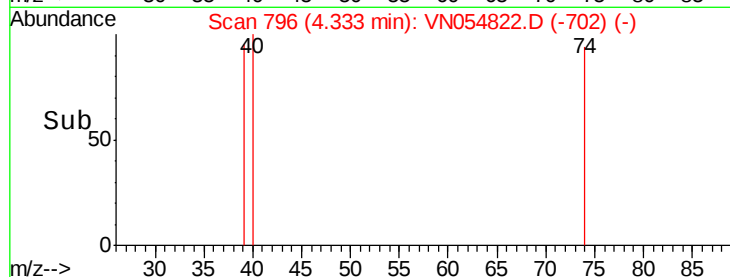
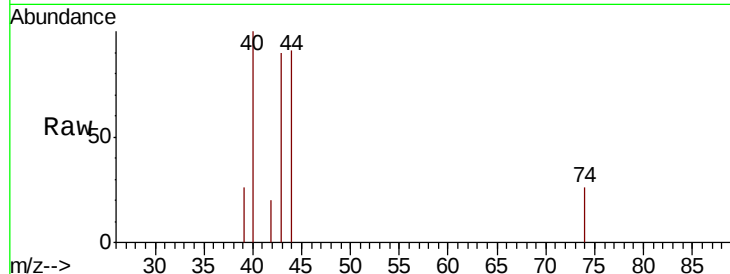




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN054822.D
Acq: 31 Mar 2019 00:51

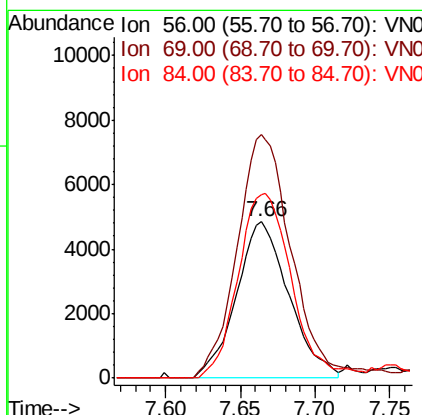
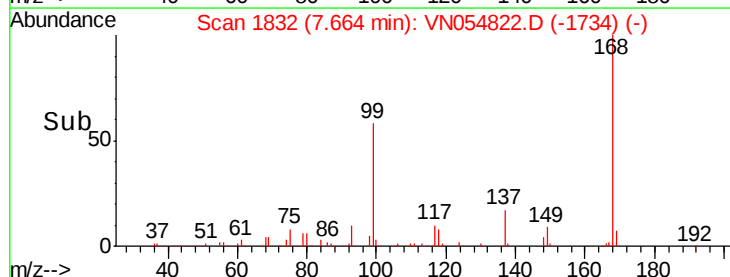
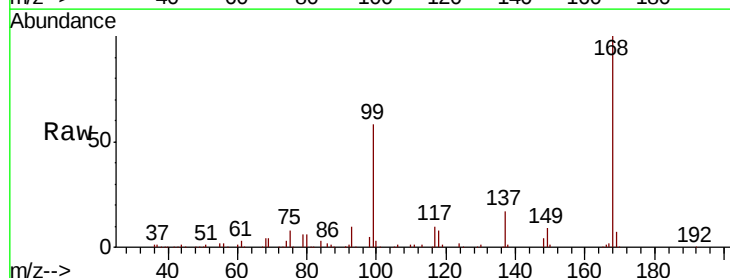
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ClientSampleId :
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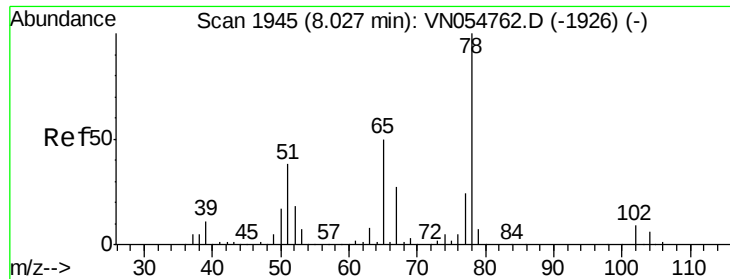
Tot Ion: 43 Resp: 1829
Ion Ratio Lower Upper
43 100
74 8.4 20.8 31.2#



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054822.D
Acq: 31 Mar 2019 00:51

Tgt Ion: 56 Resp: 11862
Ion Ratio Lower Upper
56 100
69 155.8 27.8 41.6#
84 117.5 74.6 111.8#

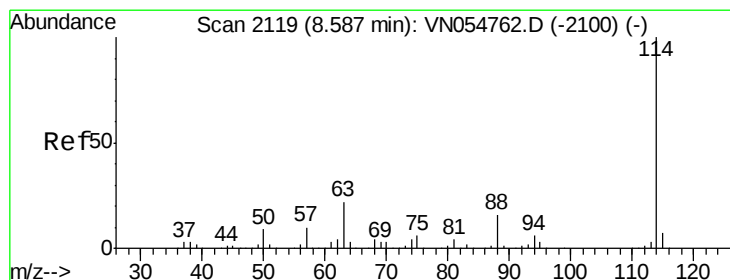
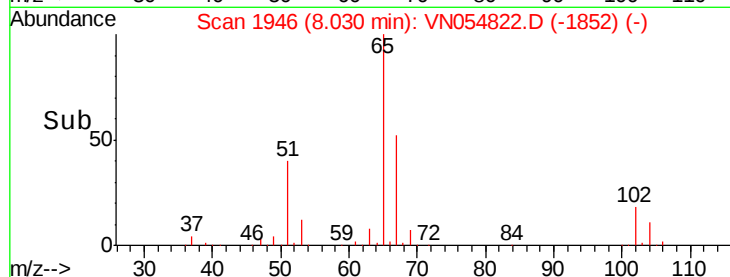
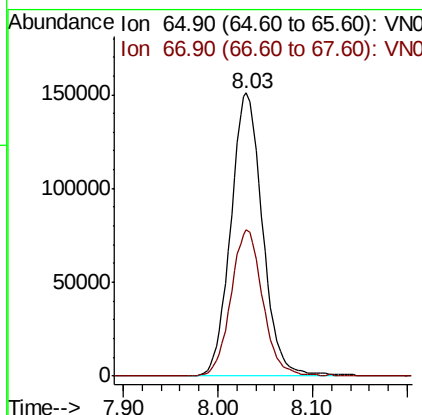
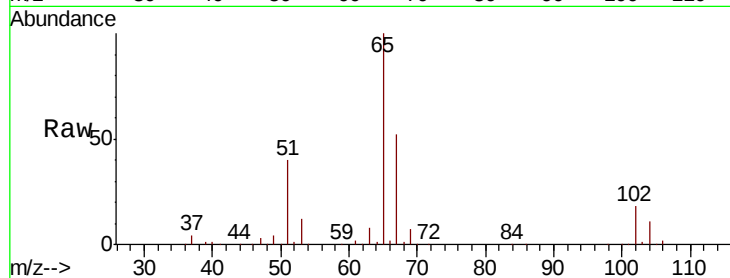




#33
 1,2-Dichloroethane-d4
 Concen: 50.417 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN054822.D
 Acq: 31 Mar 2019 00:51

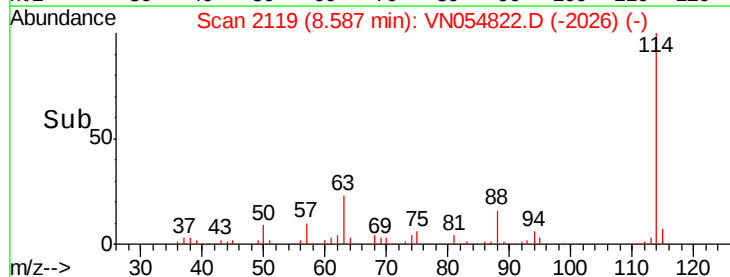
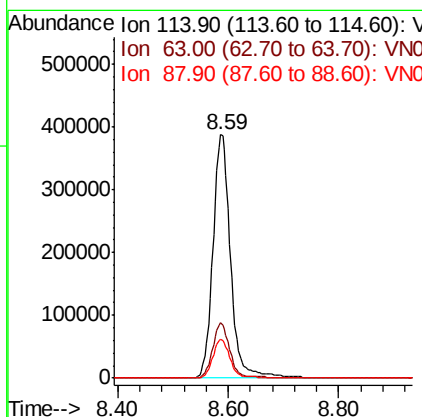
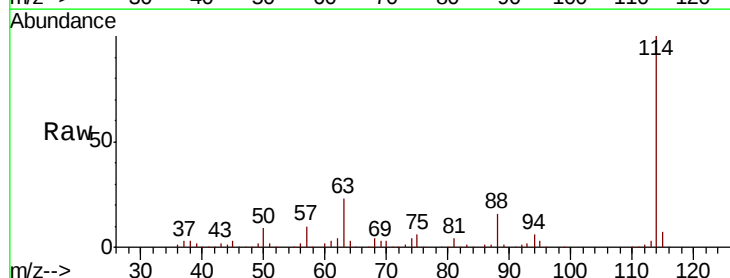
Instrument :
 MSVOA_N
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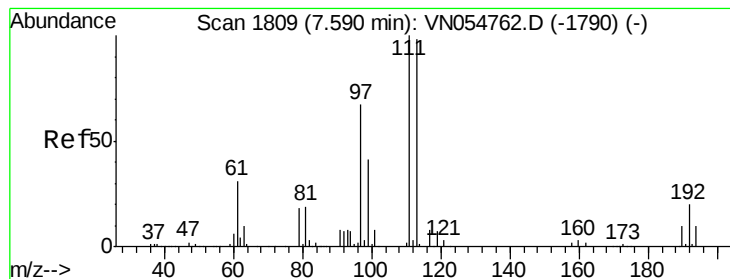
Tot Ion: 65 Resp: 351787
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054822.D
 Acq: 31 Mar 2019 00:51

Tgt Ion: 114 Resp: 857662
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 35.2
 88 16.0 0.0 30.2





#35

Dibromofluoromethane

Concen: 48.153 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054822.D

Acq: 31 Mar 2019 00:51

Instrument :

MSVOA_N

ClientSampled :

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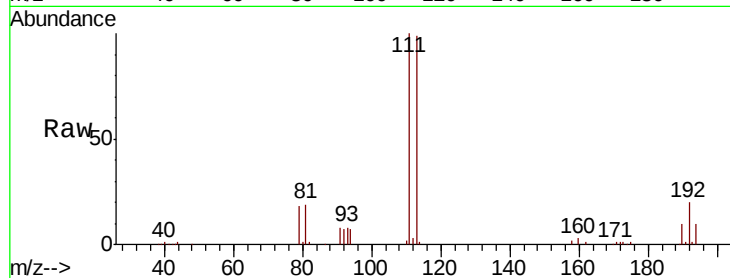
Tot Ion:113 Resp: 275337

Ion Ratio Lower Upper

113 100

111 102.3 82.2 123.4

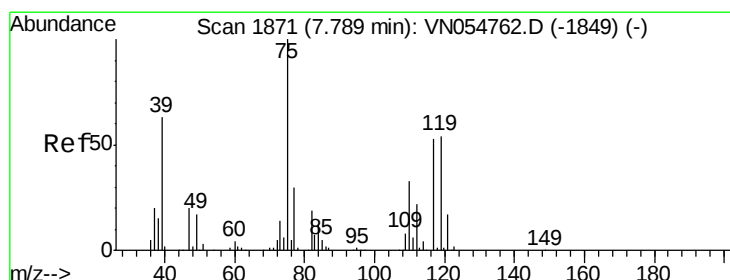
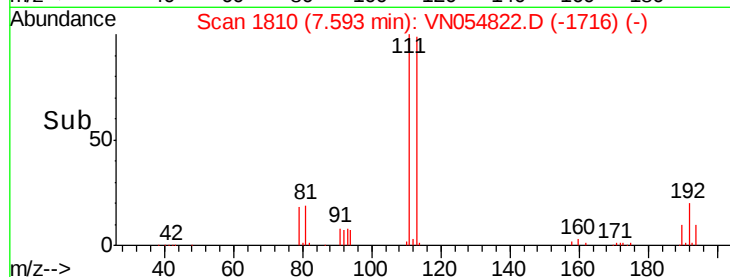
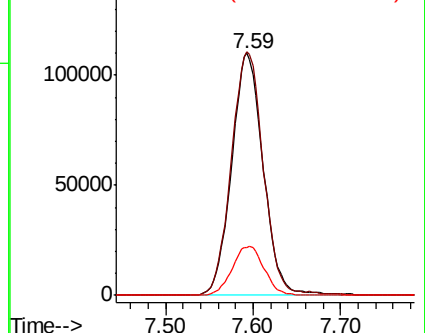
192 20.5 19.2 28.8



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: 4.940 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054822.D

Acq: 31 Mar 2019 00:51

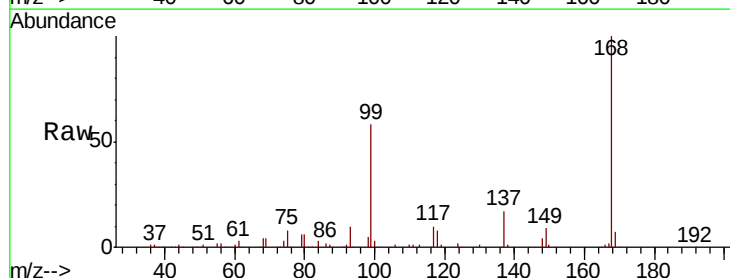
Tgt Ion: 75 Resp: 39482

Ion Ratio Lower Upper

75 100

110 8.7 19.1 57.5#

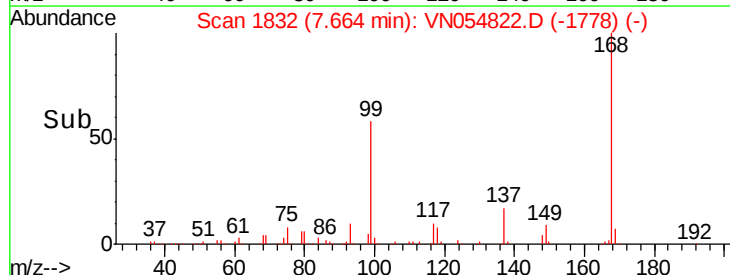
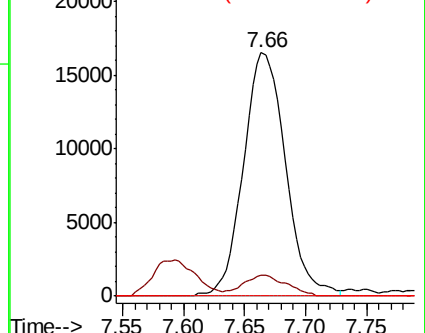
77 0.0 25.0 37.4#

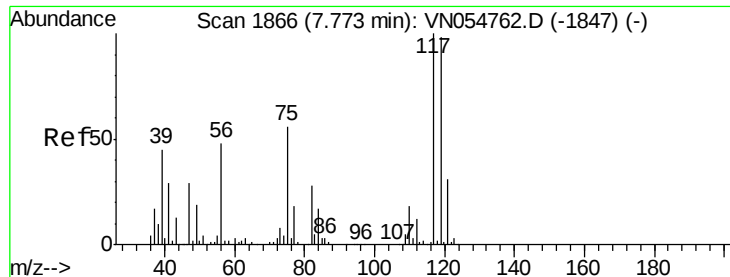


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.403 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054822.D

Acq: 31 Mar 2019 00:51

Instrument :

MSVOA_N

ClientSampled :

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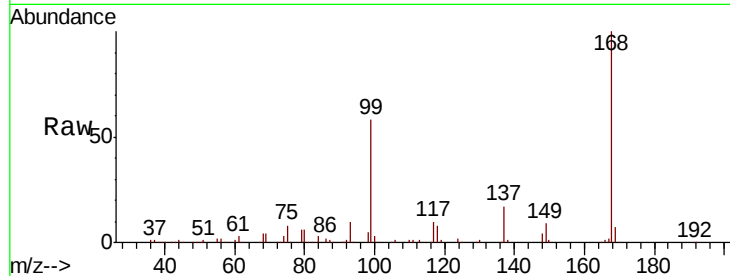
Tot Ion:117 Resp: 49701

Ion Ratio Lower Upper

117 100

119 5.8 76.3 114.5#

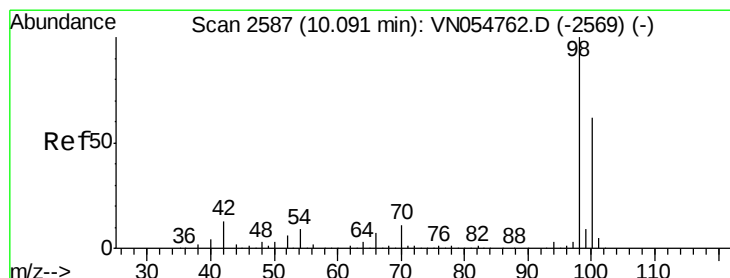
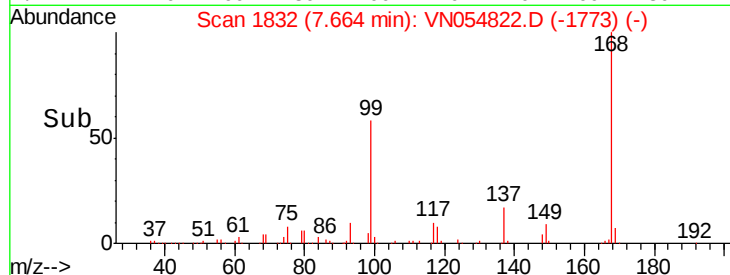
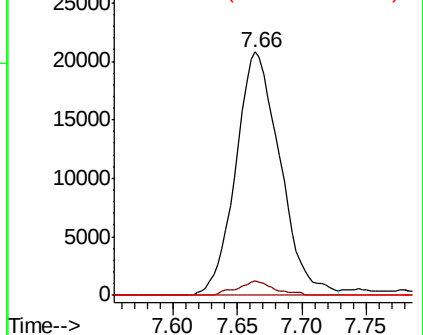
121 0.0 24.6 36.8#



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



#50

Toluene-d8

Concen: 47.833 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054822.D

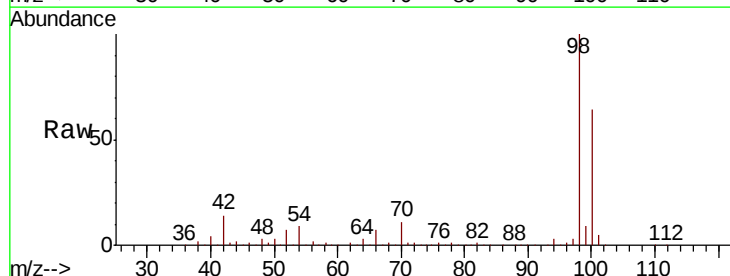
Acq: 31 Mar 2019 00:51

Tgt Ion: 98 Resp: 1016845

Ion Ratio Lower Upper

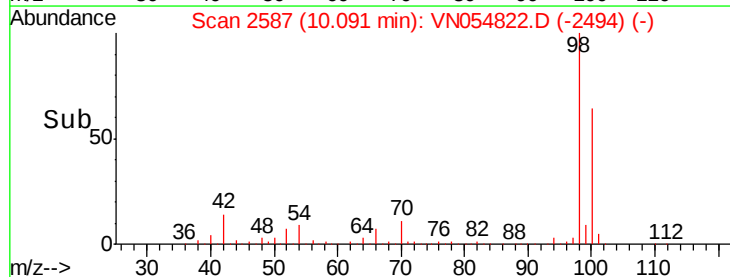
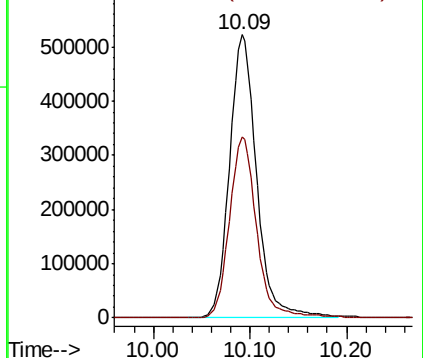
98 100

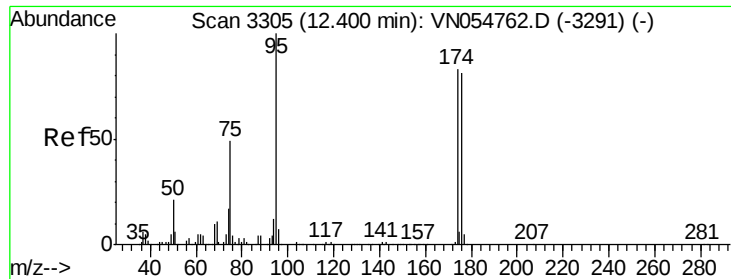
100 64.1 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN





#62

4-Bromofluorobenzene

Concen: 44.200 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054822.D

Acq: 31 Mar 2019 00:51

Instrument :

MSVOA_N

ClientSampleId :

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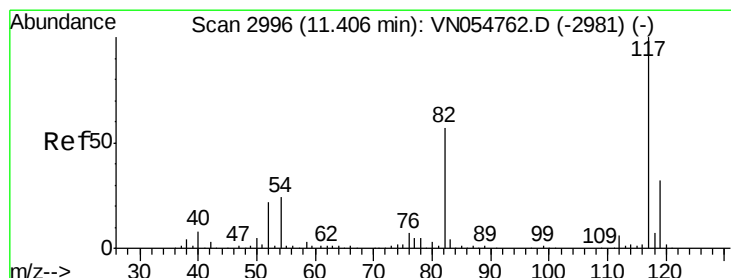
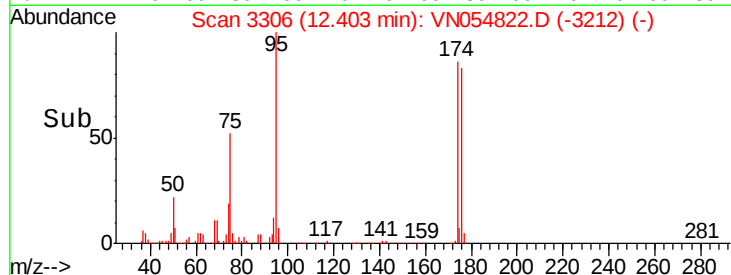
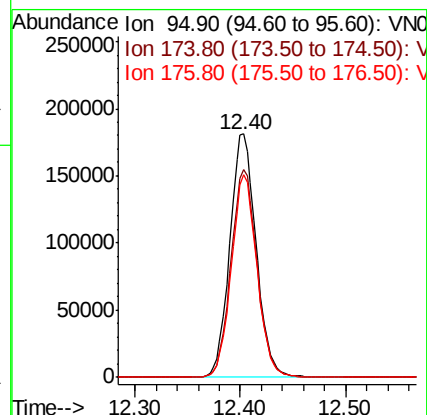
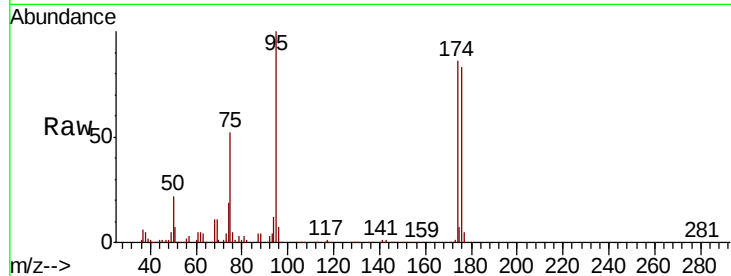
Tot Ion: 95 Resp: 312491

Ion Ratio Lower Upper

95 100

174 84.6 0.0 191.0

176 80.9 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: VN054822.D

Acq: 31 Mar 2019 00:51

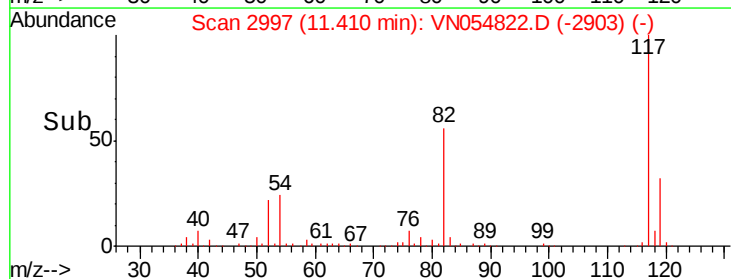
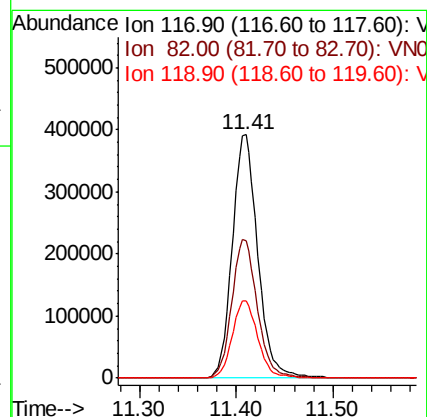
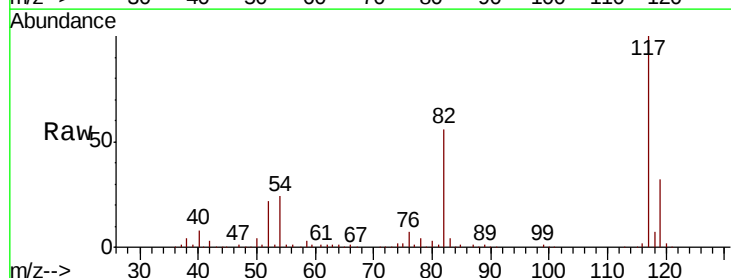
Tgt Ion: 117 Resp: 718031

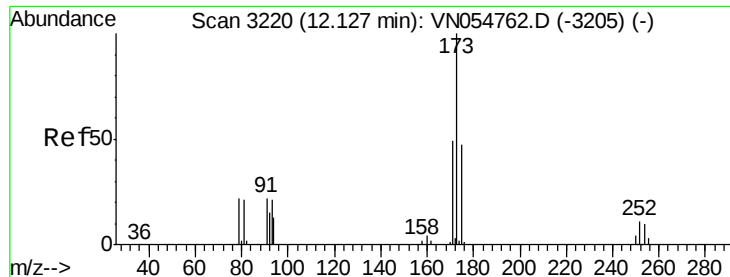
Ion Ratio Lower Upper

117 100

82 56.3 40.0 60.0

119 31.5 25.8 38.6





#71

Bromoform

Concen: 1.131 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN054822.D

Acq: 31 Mar 2019 00:51

Instrument :

MSVOA_N

ClientSampleId :

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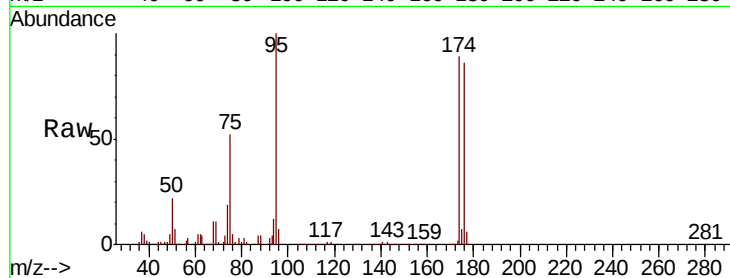
Tot Ion:173 Resp: 3485

Ion Ratio Lower Upper

173 100

175 484.6 24.4 73.2#

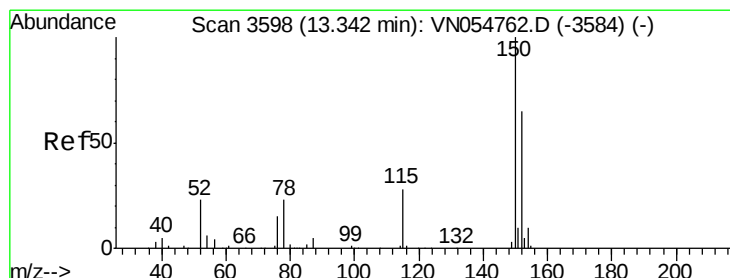
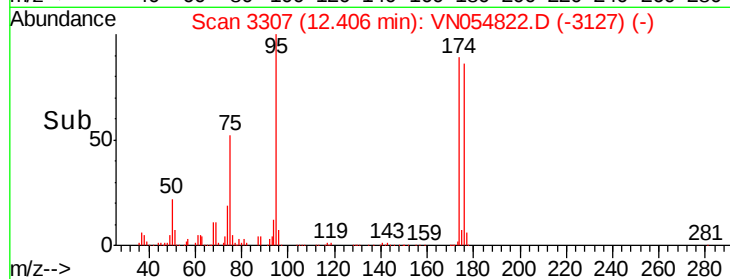
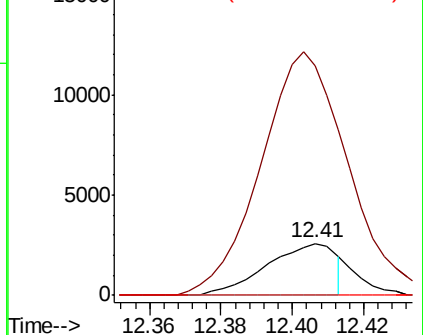
254 0.0 0.1 0.1#



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: VN054822.D

Acq: 31 Mar 2019 00:51

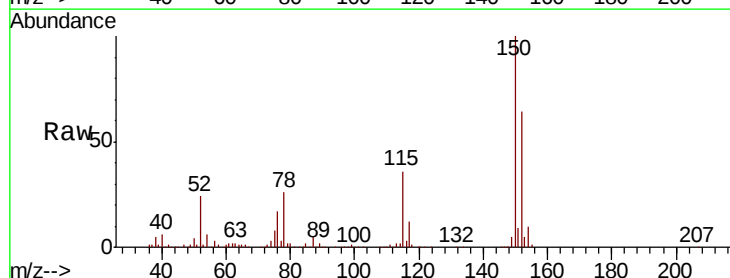
Tgt Ion:152 Resp: 258887

Ion Ratio Lower Upper

152 100

115 57.9 27.2 81.6

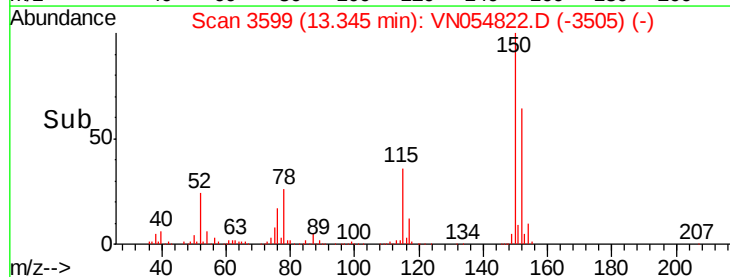
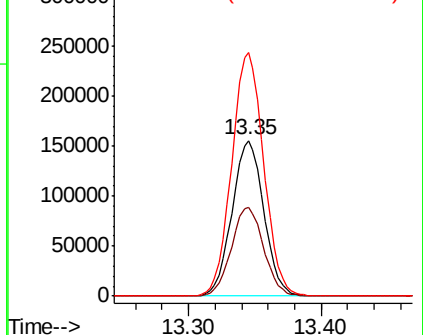
150 157.4 0.0 349.2

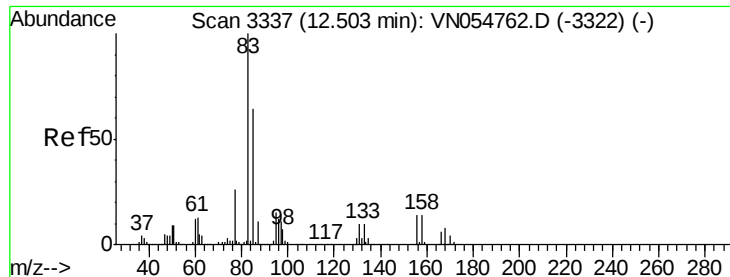


Abundance Ion 151.90 (151.60 to 152.60): V

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: 12.42 min Scan# 3310

Delta R.T. -0.09 min

Lab File: VN054822.D

Acq: 31 Mar 2019 00:51

Instrument :

MSVOA_N

ClientSampleId :

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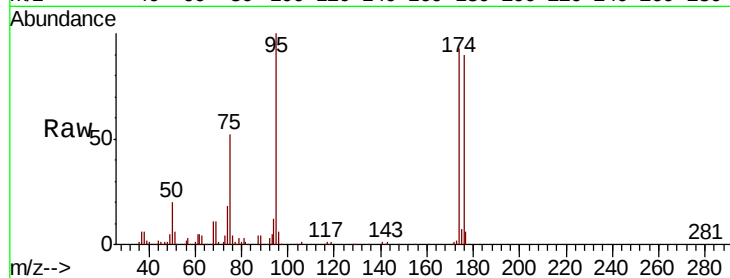
Tot Ion: 83 Resp: 68

Ion Ratio Lower Upper

83 100

131 535.3 5.8 17.4#

85 0.0 32.2 96.6#

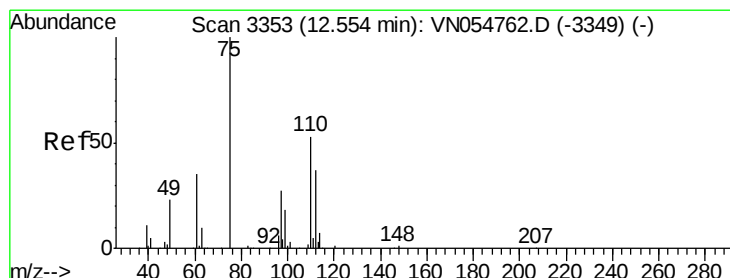
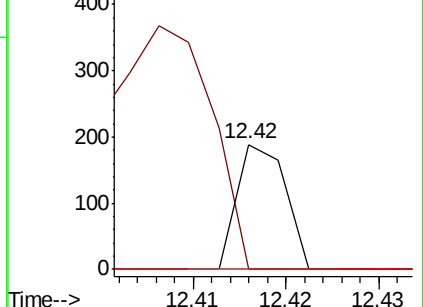
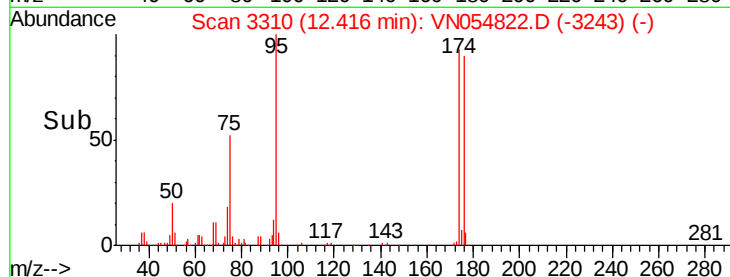


Abundance Ion 82.90 (82.60 to 83.60): VN054822.D (-3243) (-)

Ion 130.80 (130.50 to 131.50): VN054822.D (-3243) (-)

Ion 84.90 (84.60 to 85.60): VN054822.D (-3243) (-)

Time-->



#76

1,2,3-Trichloropropane

Concen: 36.437 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN054822.D

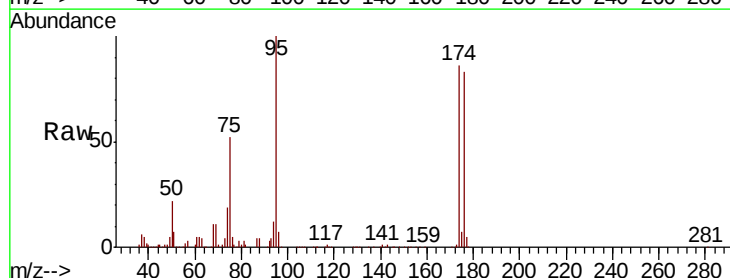
Acq: 31 Mar 2019 00:51

Tgt Ion: 75 Resp: 163876

Ion Ratio Lower Upper

75 100

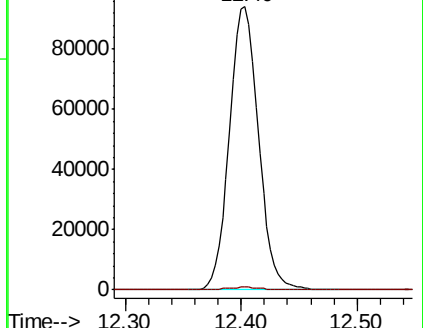
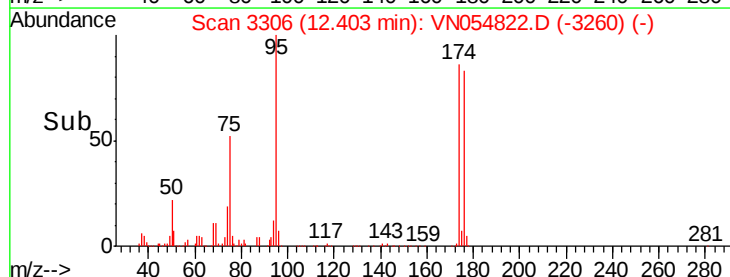
77 1.0 0.0 0.0#

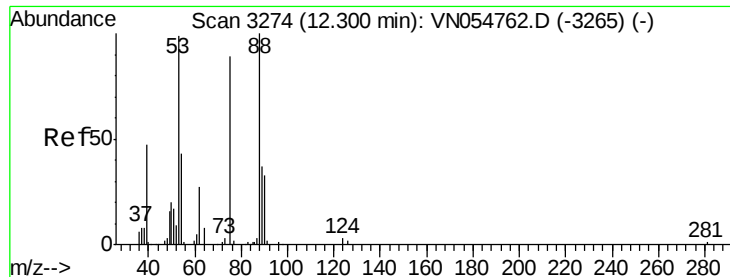


Abundance Ion 74.90 (74.60 to 75.60): VN054822.D (-3260) (-)

Ion 77.00 (76.70 to 77.70): VN054822.D (-3260) (-)

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 141.732 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN054822.D

Acq: 31 Mar 2019 00:51

Instrument :

MSVOA_N

ClientSampled :

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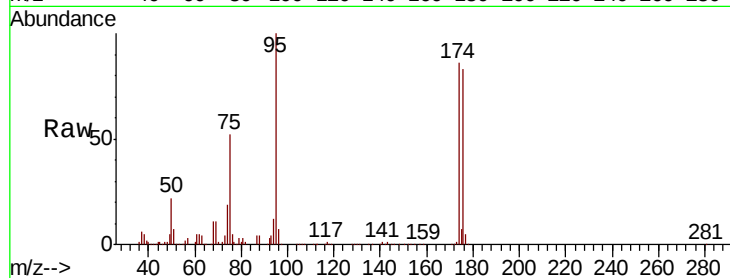
Tot Ion: 75 Resp: 163876

Ion Ratio Lower Upper

75 100

53 0.1 76.2 114.2#

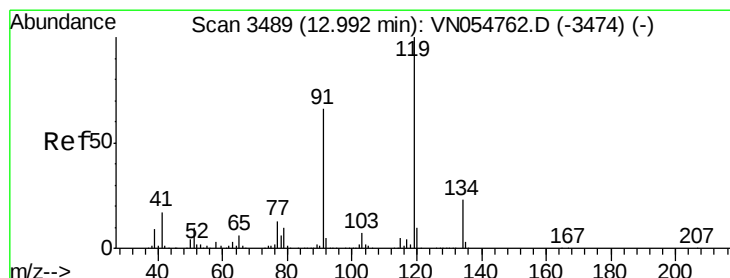
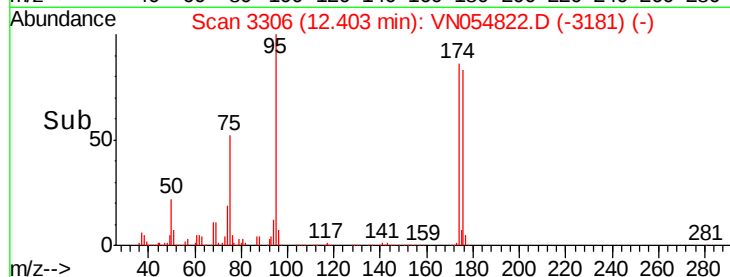
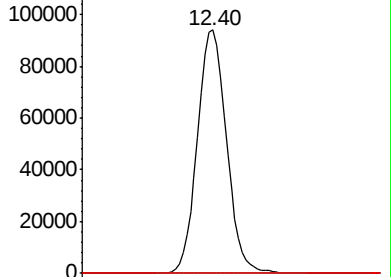
89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN054822.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN054822.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN054822.D (-3181) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 13.01 min Scan# 3495

Delta R.T. 0.02 min

Lab File: VN054822.D

Acq: 31 Mar 2019 00:51

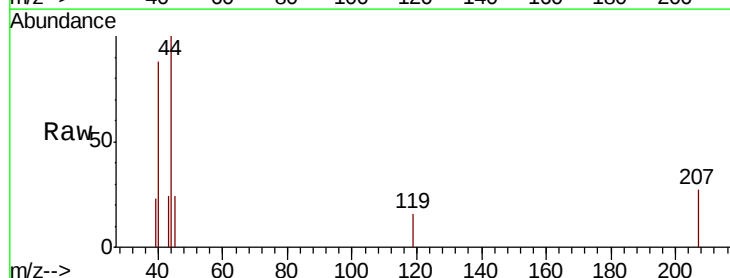
Tgt Ion: 119 Resp: 60

Ion Ratio Lower Upper

119 100

91 0.0 30.9 92.8#

134 0.0 13.2 39.6#



Abundance Ion 119.00 (118.70 to 119.70): VN054822.D (-3396) (-)

Ion 91.00 (90.70 to 91.70): VN054822.D (-3396) (-)

Ion 134.00 (133.70 to 134.70): VN054822.D (-3396) (-)

