

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033019\
 Data File : VN054825.D
 Acq On : 31 Mar 2019 2:11
 Operator : JC/SP
 Sample : K2164-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3

Quant Time: Mar 31 04:43:38 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	506252	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	851645	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	702657	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	244715	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	348180	51.02	ug/l	0.00
Spiked Amount			Recovery	=	102.04%	
35) Dibromofluoromethane	7.59	113	272823	48.05	ug/l	0.00
Spiked Amount			Recovery	=	96.10%	
50) Toluene-d8	10.09	98	1002991	47.51	ug/l	0.00
Spiked Amount			Recovery	=	95.02%	
62) 4-Bromofluorobenzene	12.40	95	306559	43.67	ug/l	0.00
Spiked Amount			Recovery	=	87.34%	

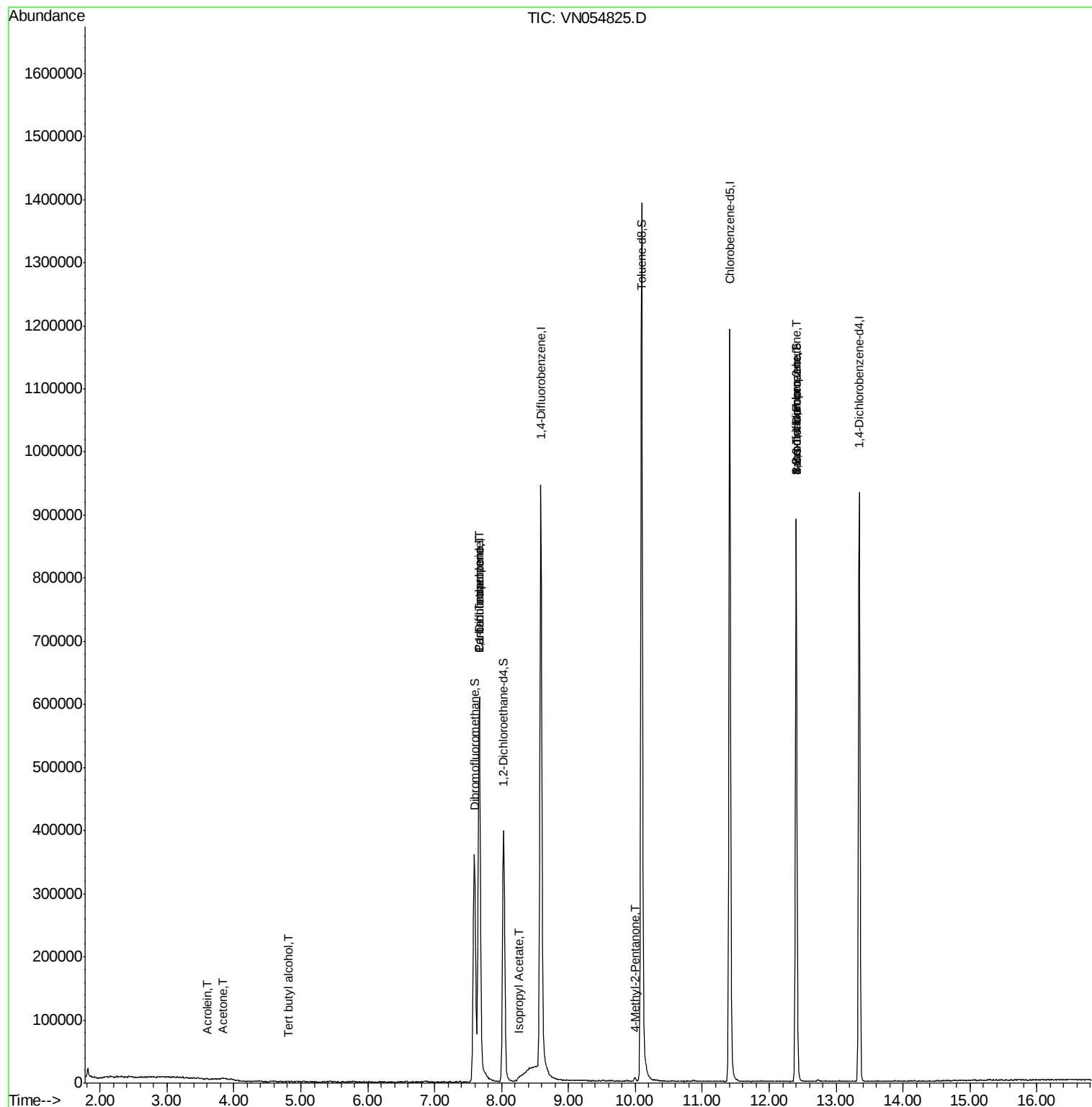
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.58	94	480	Below Cal	#	2
11) Tert butyl alcohol	4.81	59	158	0.444	ug/l #	70
13) Acrolein	3.61	56	209	0.658	ug/l #	14
16) Acetone	3.83	43	924	0.568	ug/l #	83
18) Methyl Acetate	4.34	43	1000	Below Cal	#	49
31) Cyclohexane	7.66	56	11505	Below Cal	#	7
36) 1,1-Dichloropropene	7.66	75	38593	4.863	ug/l #	48
38) Carbon Tetrachloride	7.67	117	49394	6.408	ug/l #	16
43) Isopropyl Acetate	8.25	43	3316	0.351	ug/l #	60
51) 4-Methyl-2-Pentanone	9.99	43	4599	0.865	ug/l	92
71) Bromoform	12.40	173	1342	0.445	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	29	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	160603	37.778	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	160603	146.946	ug/l #	11

(#) = 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: VN054825.D

Acq: 31 Mar 2019 2:11

Instrument :

MSVOA_N

ClientSampled :

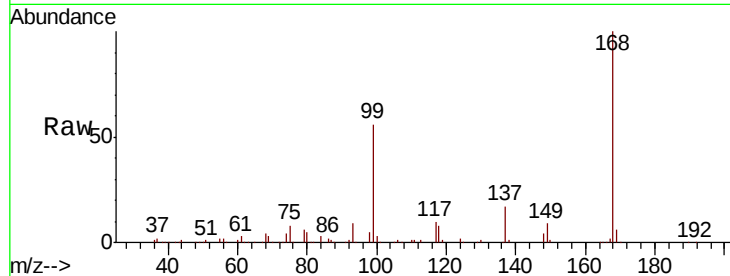
MW-3

Tot Ion:168 Resp: 506252

Ion Ratio Lower Upper

168 100

99 55.8 37.1 55.7#



Abundance Ion 167.90 (167.60 to 168.60): VN054825.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN054825.D (-1740) (-)

7.67

200000

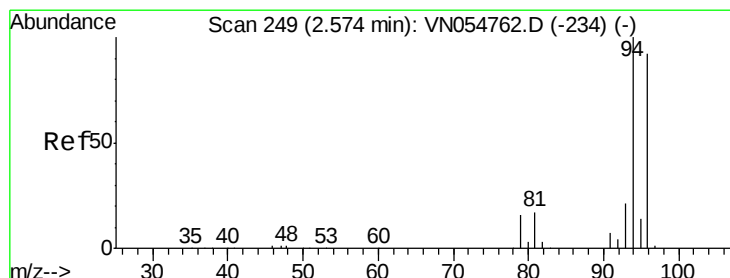
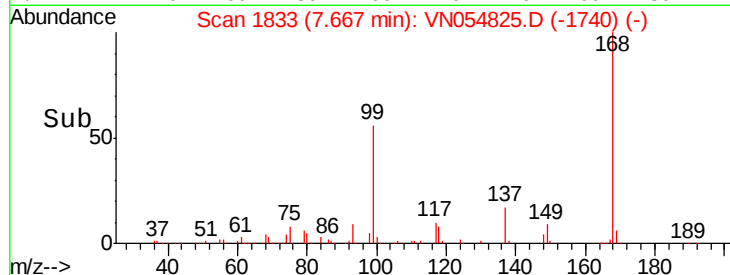
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 252

Delta R.T. 0.01 min

Lab File: VN054825.D

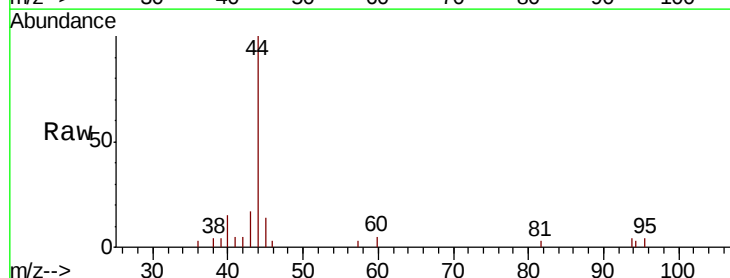
Acq: 31 Mar 2019 2:11

Tgt Ion: 94 Resp: 480

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN054825.D (-156) (-)

Ion 95.90 (95.60 to 96.60): VN054825.D (-156) (-)

2.58

400

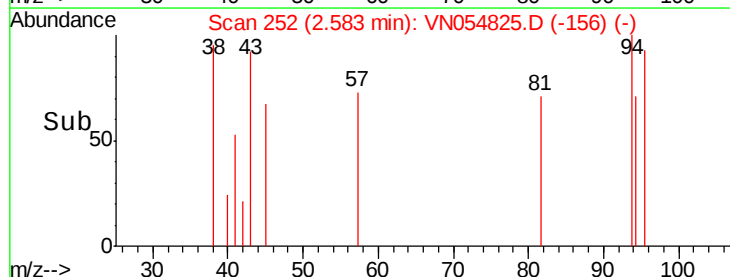
300

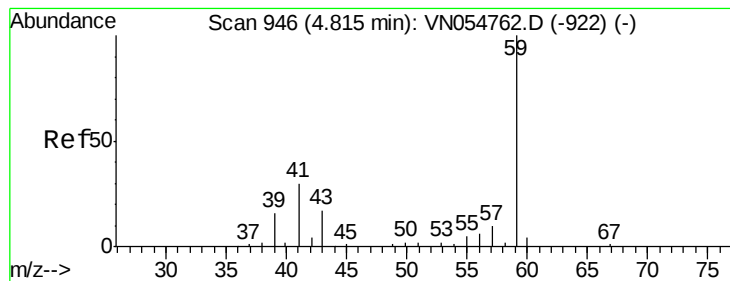
200

100

0

Time--> 2.54 2.56 2.58 2.60





#11

Tert butyl alcohol

Concen: 0.444 ug/l

RT: 4.81 min Scan# 944

Delta R.T. -0.01 min

Lab File: VN054825.D

Acq: 31 Mar 2019 2:11

Instrument :

MSVOA_N

ClientSampled :

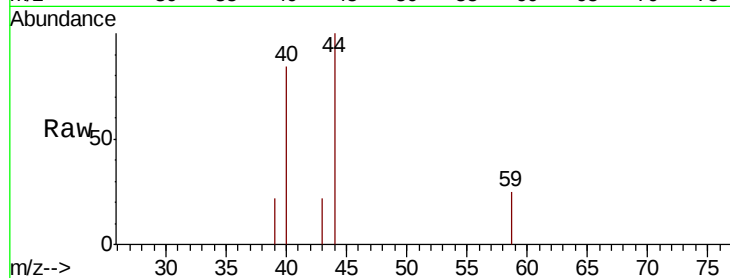
MW-3

Tot Ion: 59 Resp: 158

Ion Ratio Lower Upper

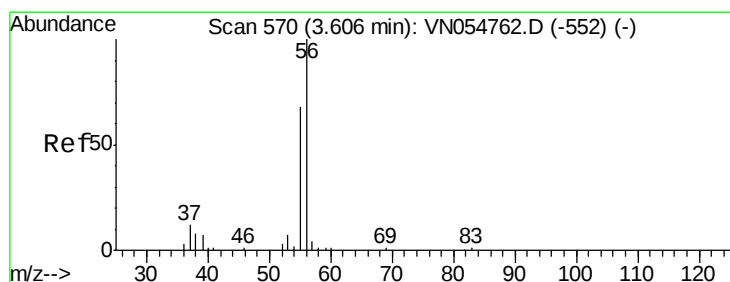
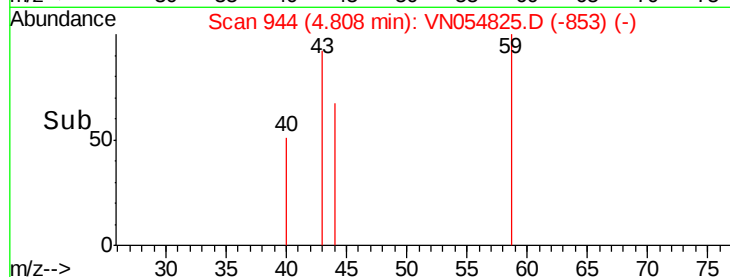
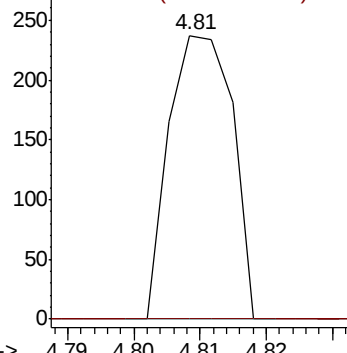
59 100

57 0.0 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#13

Acrolein

Concen: 0.658 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN054825.D

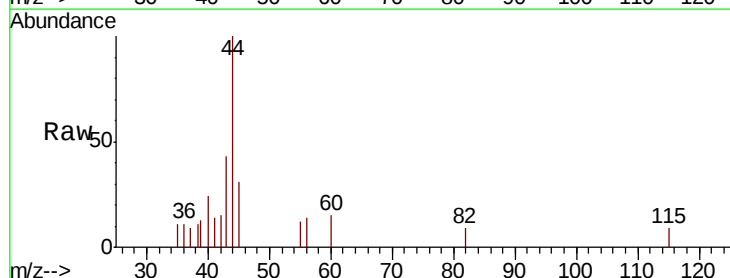
Acq: 31 Mar 2019 2:11

Tgt Ion: 56 Resp: 209

Ion Ratio Lower Upper

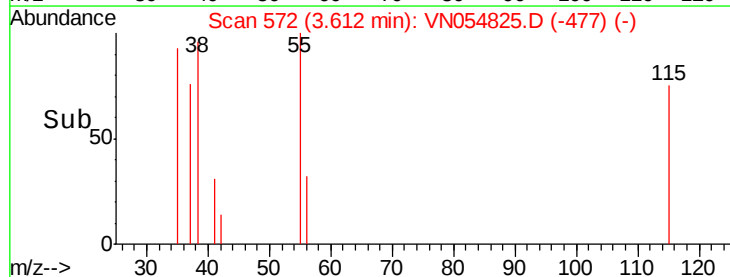
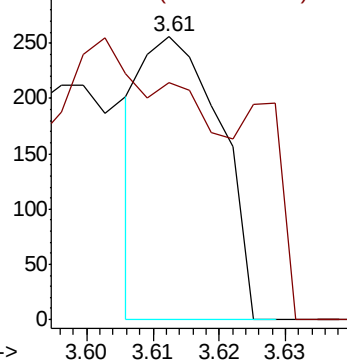
56 100

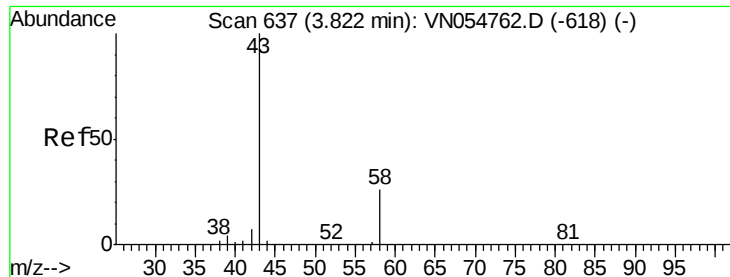
55 0.0 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 0.568 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN054825.D

Acq: 31 Mar 2019 2:11

Instrument :

MSVOA_N

ClientSampled :

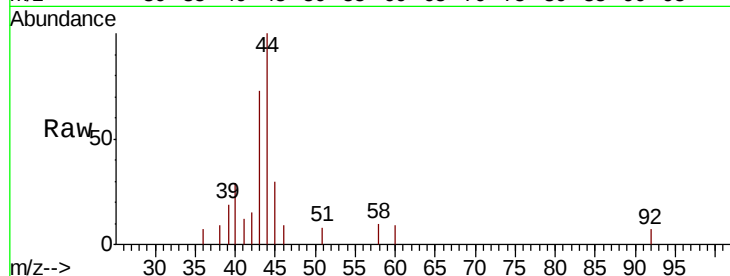
MW-3

Tot Ion: 43 Resp: 924

Ion Ratio Lower Upper

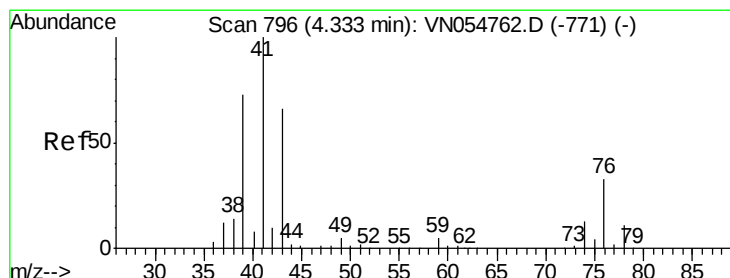
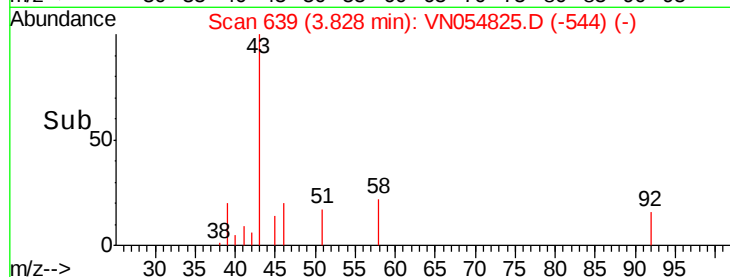
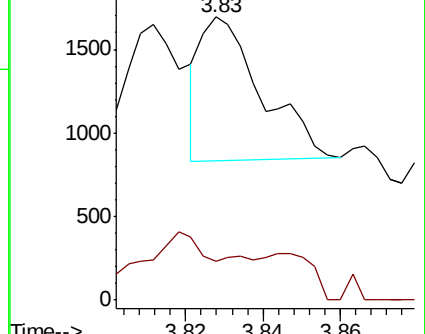
43 100

58 27.4 29.9 44.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 797

Delta R.T. 0.00 min

Lab File: VN054825.D

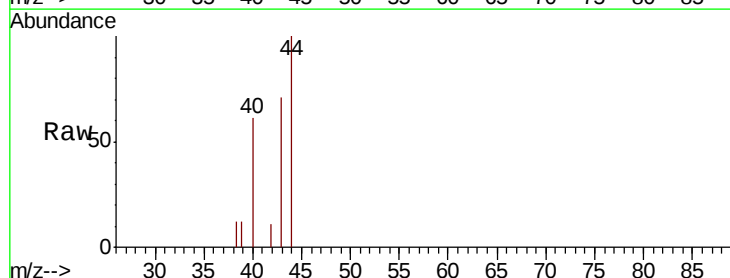
Acq: 31 Mar 2019 2:11

Tgt Ion: 43 Resp: 1000

Ion Ratio Lower Upper

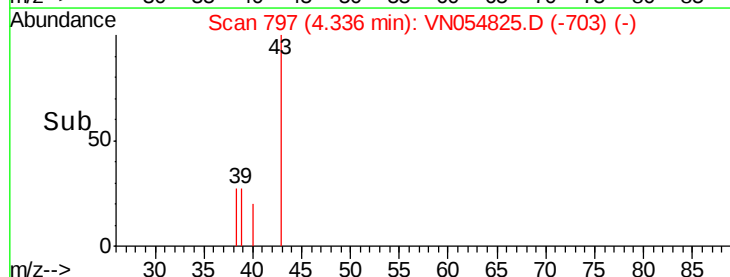
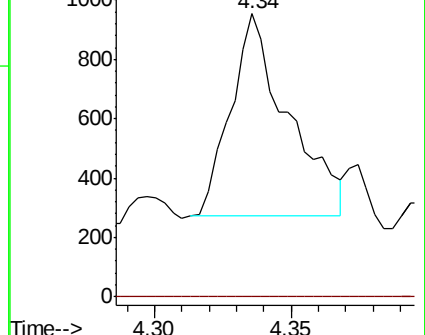
43 100

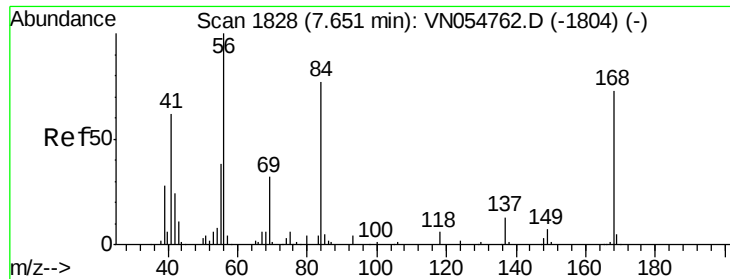
74 0.0 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

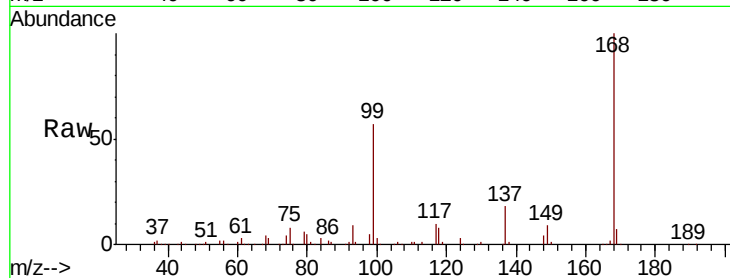




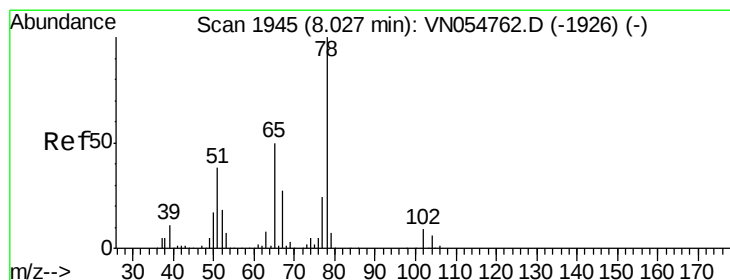
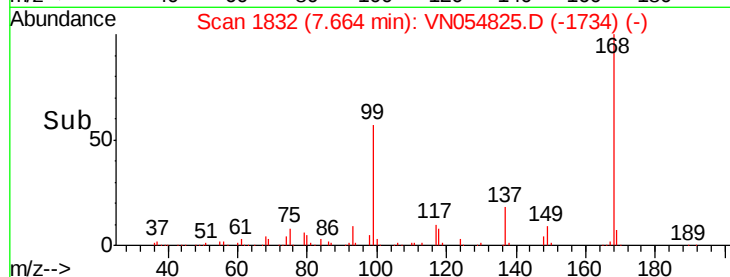
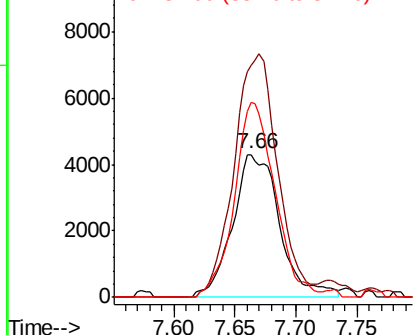
#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054825.D
Acq: 31 Mar 2019 2:11

Instrument :
MSVOA_N
ClientSampleId :
MW-3

Tot Ion: 56 Resp: 11505
Ion Ratio Lower Upper
56 100
69 162.4 27.8 41.6#
84 136.5 74.6 111.8#

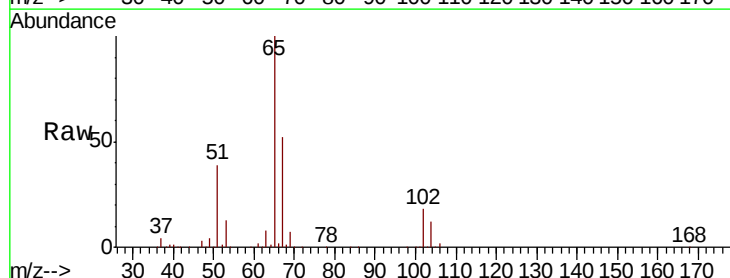


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

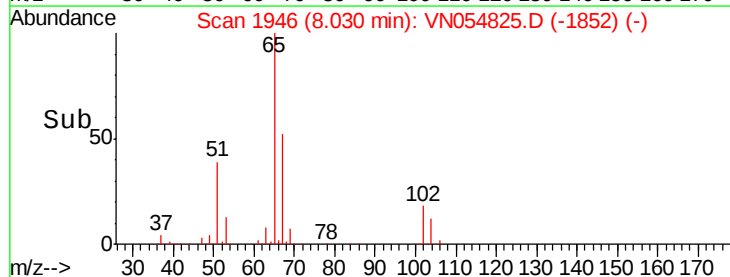
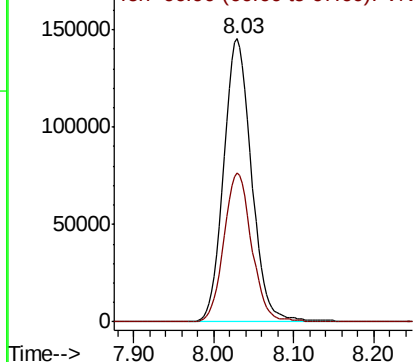


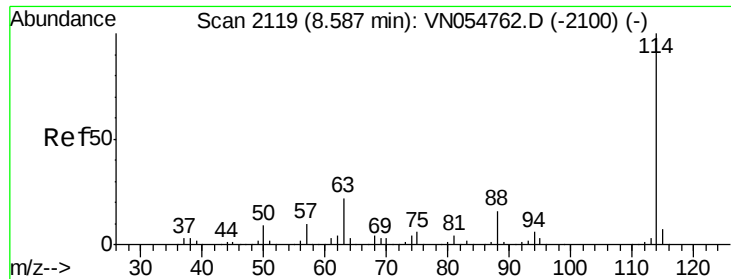
#33
1,2-Dichloroethane-d4
Concen: 51.020 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN054825.D
Acq: 31 Mar 2019 2:11

Tgt Ion: 65 Resp: 348180
Ion Ratio Lower Upper
65 100
67 52.4 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

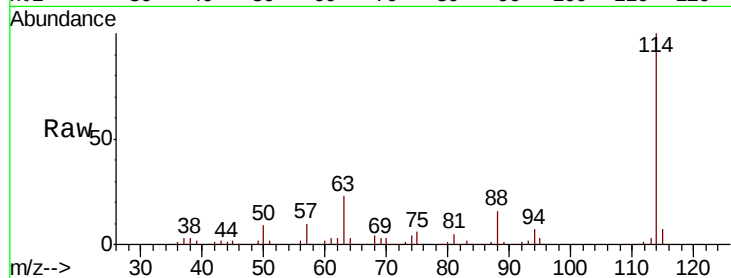




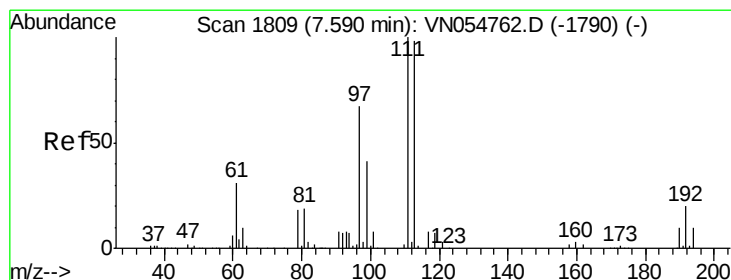
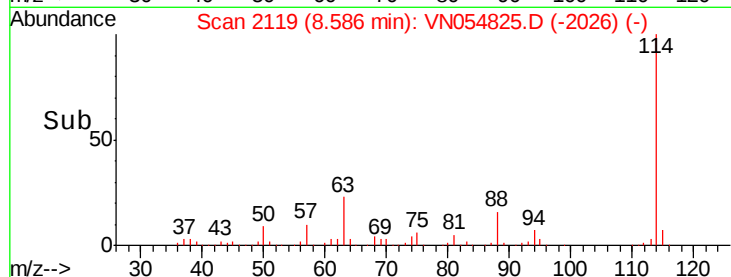
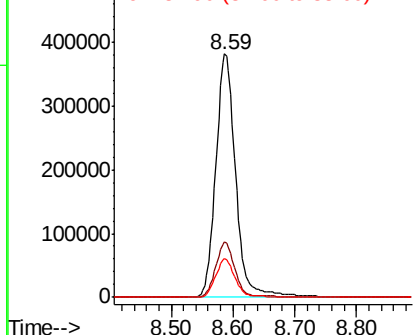
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054825.D
 Acq: 31 Mar 2019 2:11

Instrument :
 MSVOA_N
 ClientSampled :
 MW-3

Tot Ion:114 Resp: 851645
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 35.2
 88 15.7 0.0 30.2

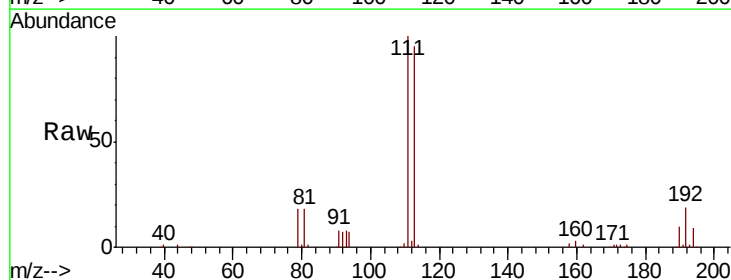


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

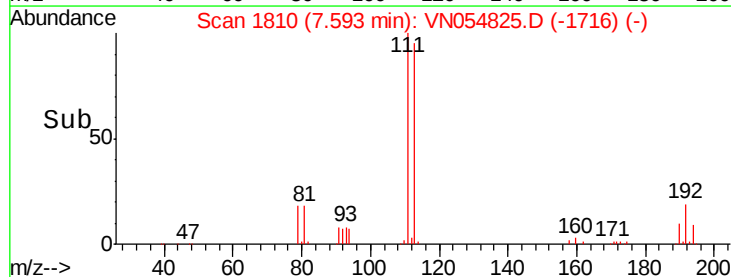
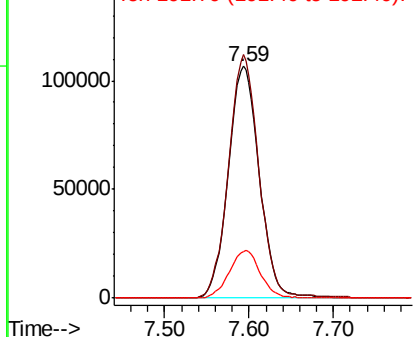


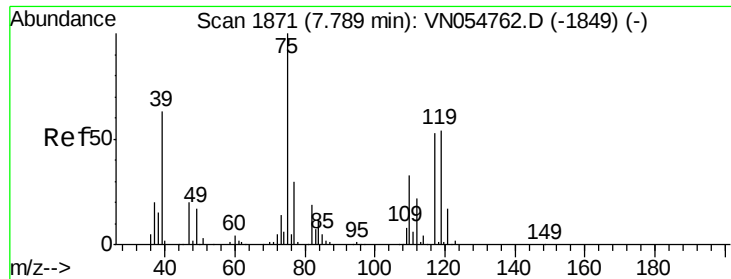
#35
 Dibromofluoromethane
 Concen: 48.051 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054825.D
 Acq: 31 Mar 2019 2:11

Tgt Ion:113 Resp: 272823
 Ion Ratio Lower Upper
 113 100
 111 101.6 82.2 123.4
 192 20.6 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

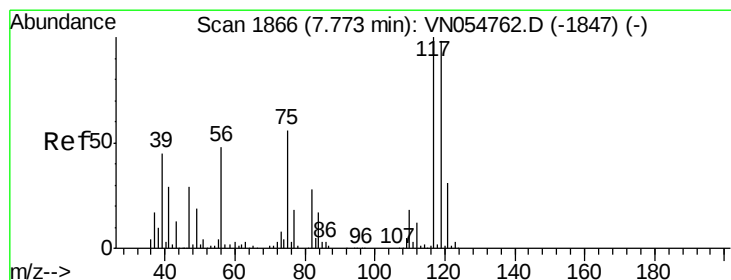
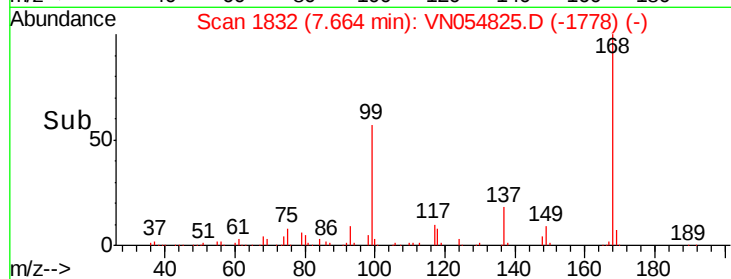
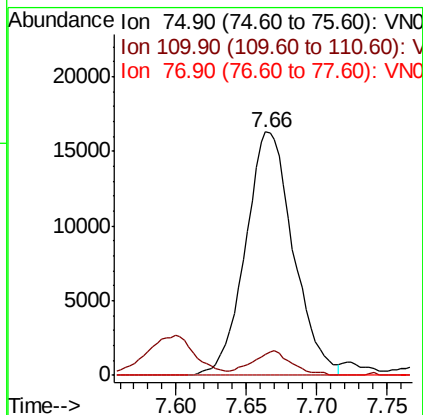
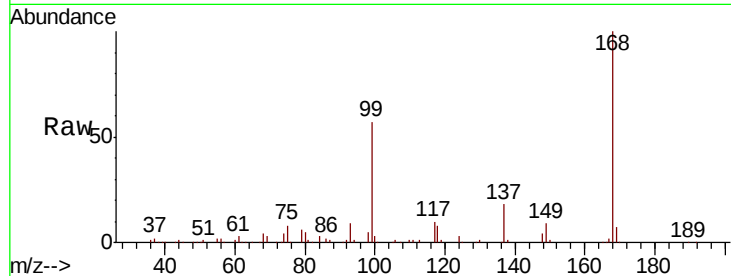




#36
 1,1-Dichloropropene
 Concen: 4.863 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054825.D
 Acq: 31 Mar 2019 2:11

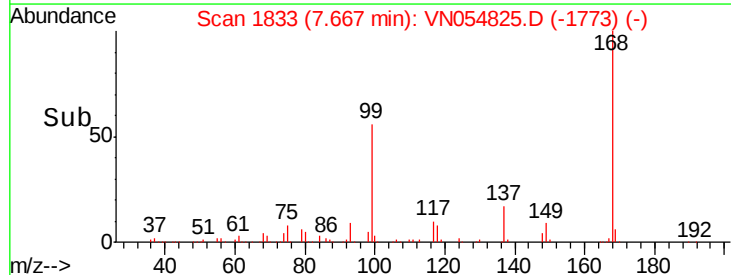
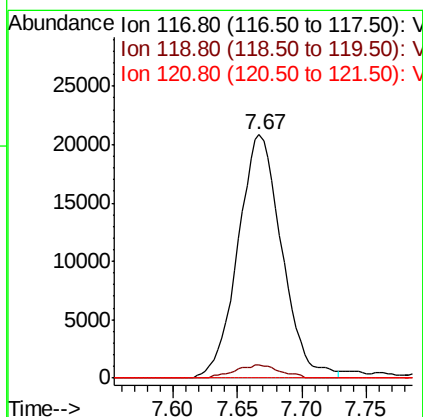
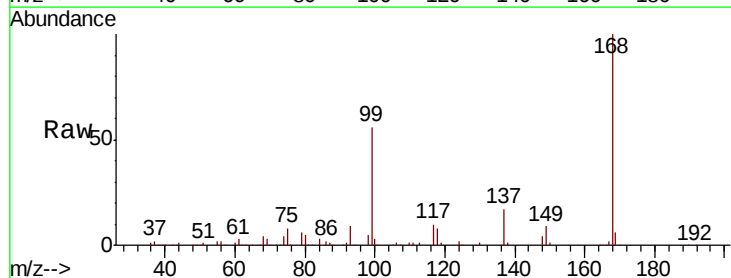
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3

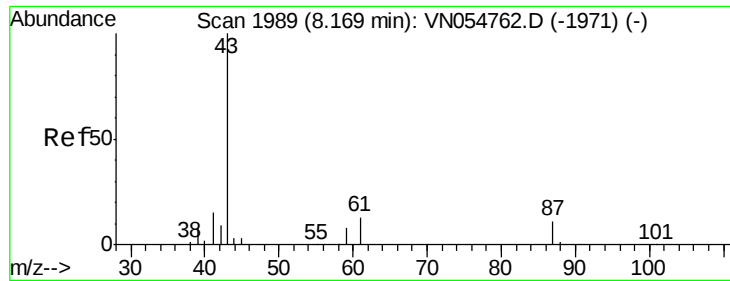
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.6	19.1	57.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.408 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN054825.D
 Acq: 31 Mar 2019 2:11

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	76.3	114.5#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 0.351 ug/l

RT: 8.25 min Scan# 2014

Delta R.T. 0.08 min

Lab File: VN054825.D

Acq: 31 Mar 2019 2:11

Instrument :

MSVOA_N

ClientSampleId :

MW-3

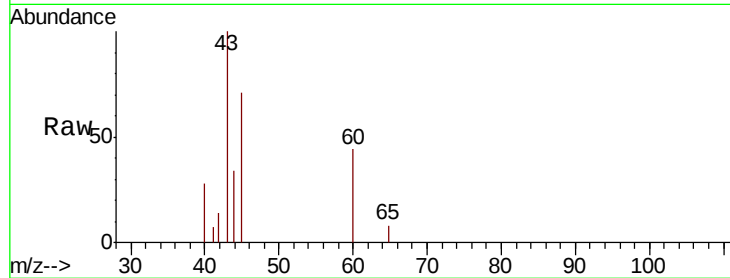
Tot Ion: 43 Resp: 3316

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.8#

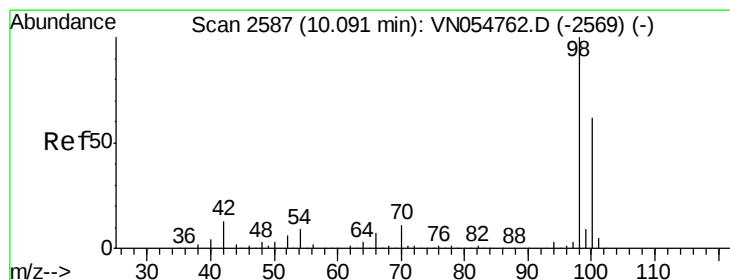
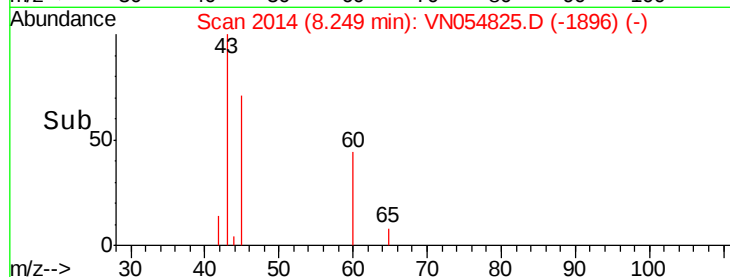
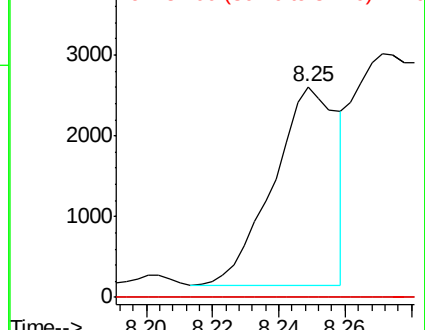
87 0.0 12.0 18.0#



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



#50

Toluene-d8

Concen: 47.515 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054825.D

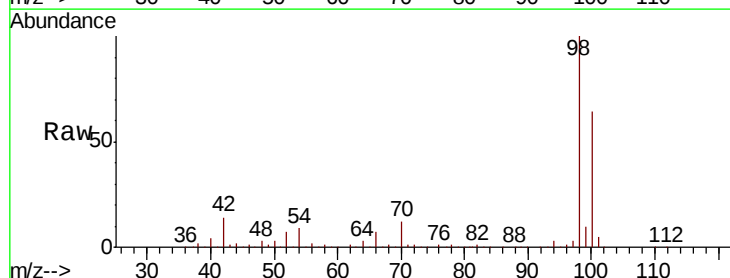
Acq: 31 Mar 2019 2:11

Tgt Ion: 98 Resp: 1002991

Ion Ratio Lower Upper

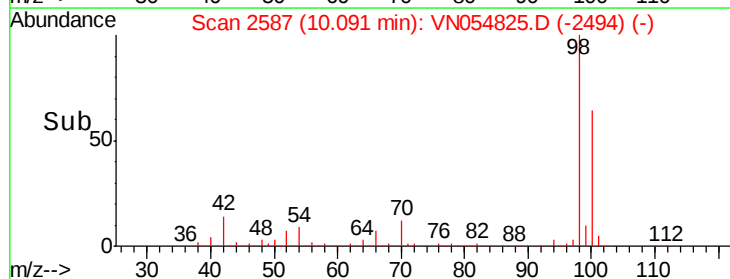
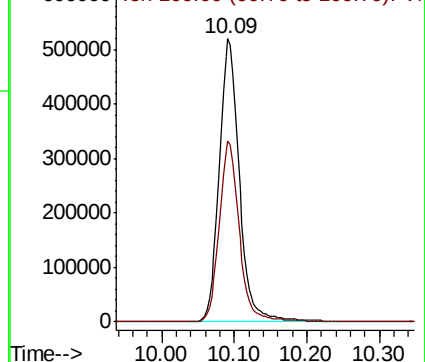
98 100

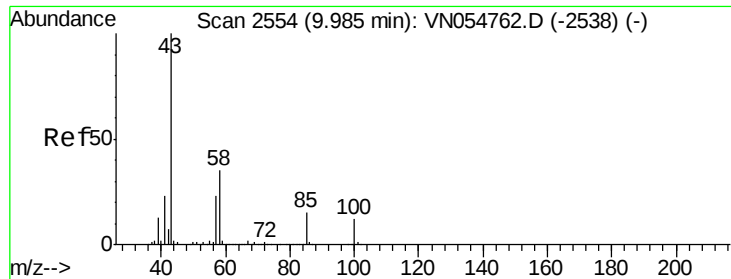
100 63.8 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.865 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN054825.D

Acq: 31 Mar 2019 2:11

Instrument :

MSVOA_N

ClientSampleId :

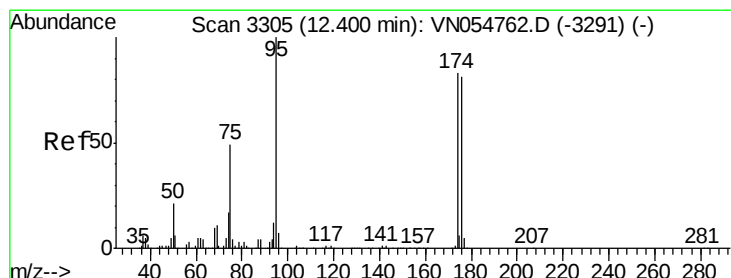
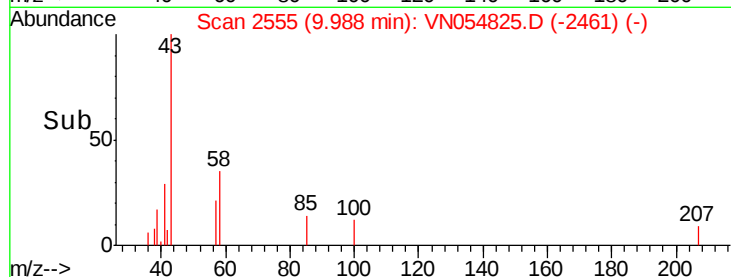
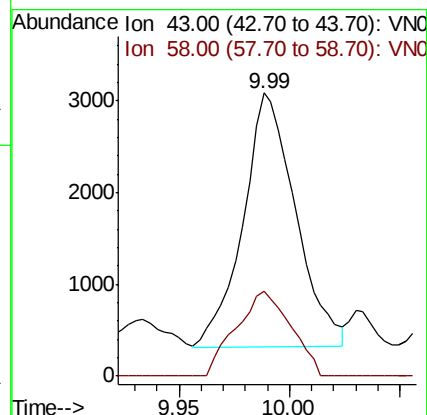
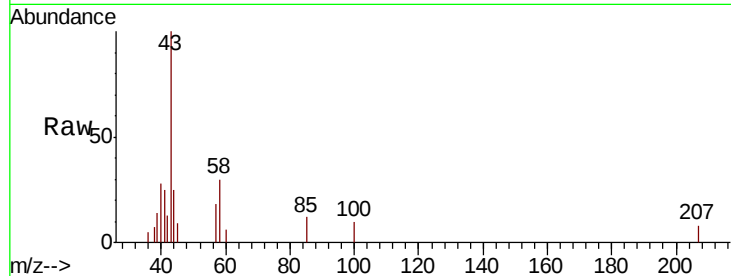
MW-3

Tot Ion: 43 Resp: 4599

Ion Ratio Lower Upper

43 100

58 34.5 31.8 47.6



#62

4-Bromofluorobenzene

Concen: 43.667 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054825.D

Acq: 31 Mar 2019 2:11

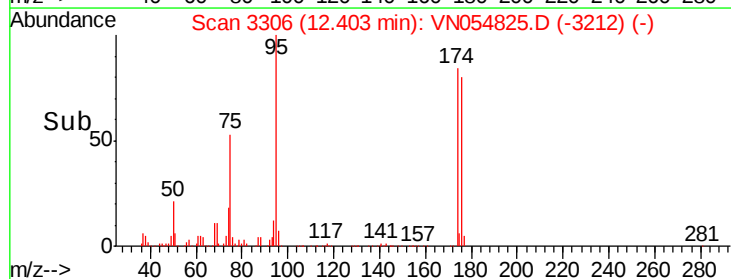
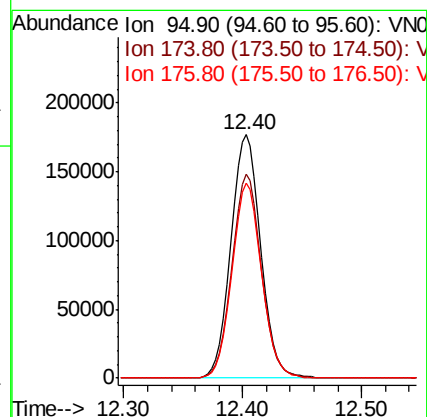
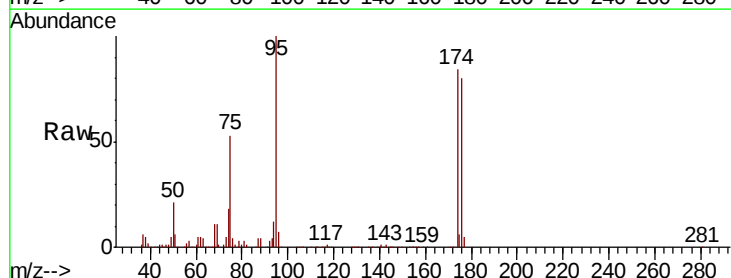
Tgt Ion: 95 Resp: 306559

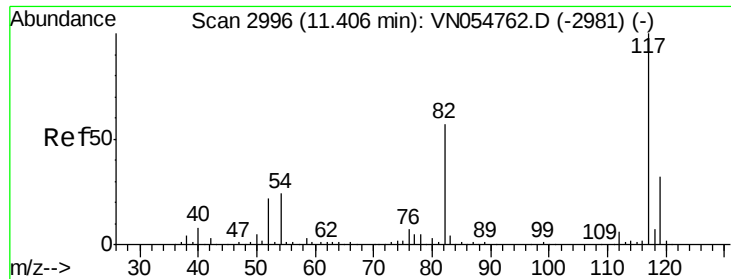
Ion Ratio Lower Upper

95 100

174 82.9 0.0 191.0

176 79.5 0.0 187.4

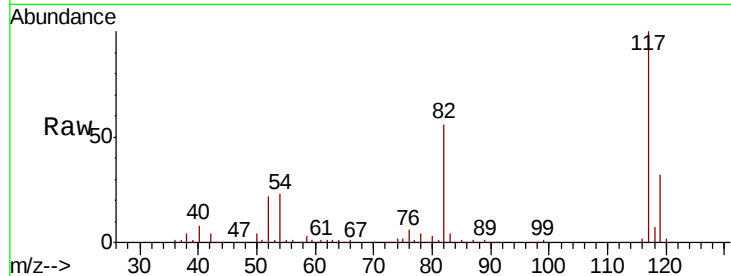




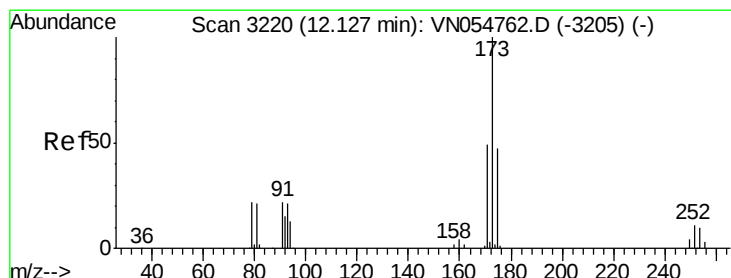
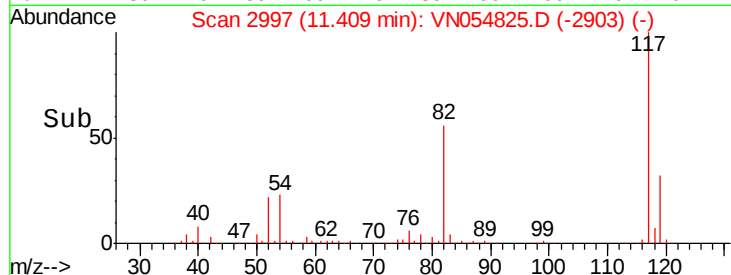
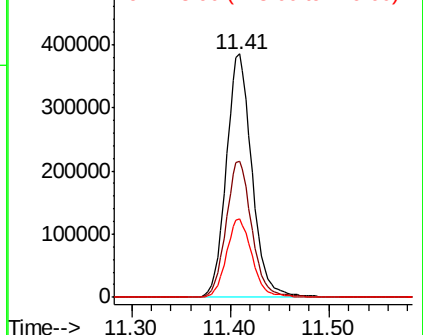
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN054825.D
Acq: 31 Mar 2019 2:11

Instrument :
MSVOA_N
ClientSampled :
MW-3

Tot Ion:117 Resp: 702657
Ion Ratio Lower Upper
117 100
82 56.0 40.0 60.0
119 32.0 25.8 38.6

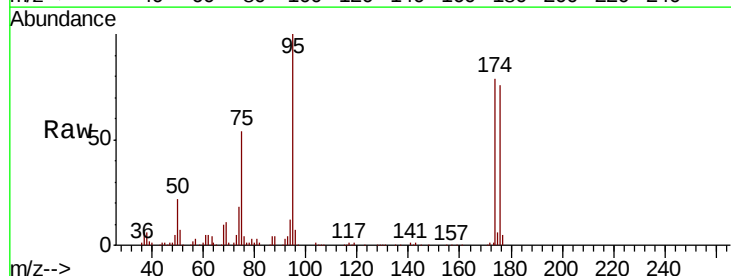


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

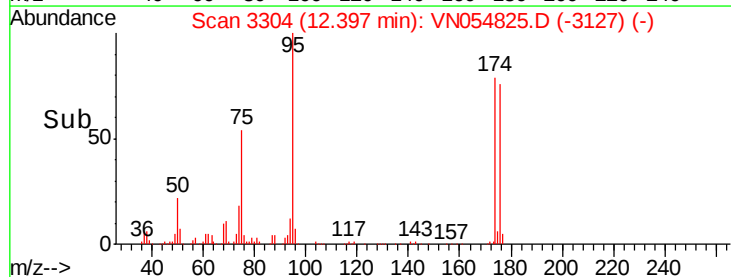
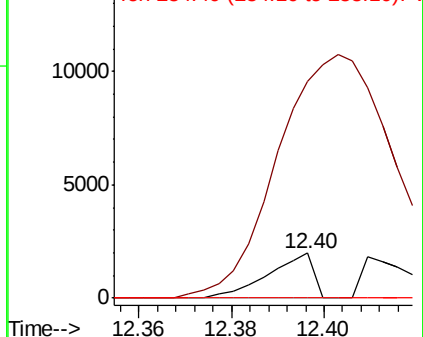


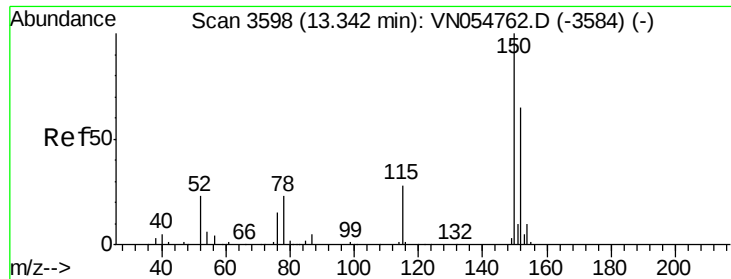
#71
Bromoform
Concen: 0.445 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN054825.D
Acq: 31 Mar 2019 2:11

Tgt Ion:173 Resp: 1342
Ion Ratio Lower Upper
173 100
175 1177.8 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: VN054825.D

Acq: 31 Mar 2019 2:11

Instrument :

MSVOA_N

ClientSampleId :

MW-3

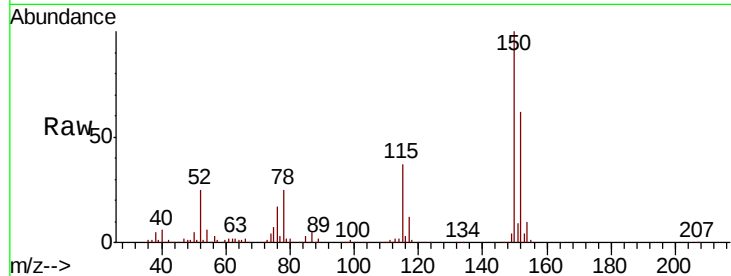
Tot Ion:152 Resp: 244715

Ion Ratio Lower Upper

152 100

115 59.7 27.2 81.6

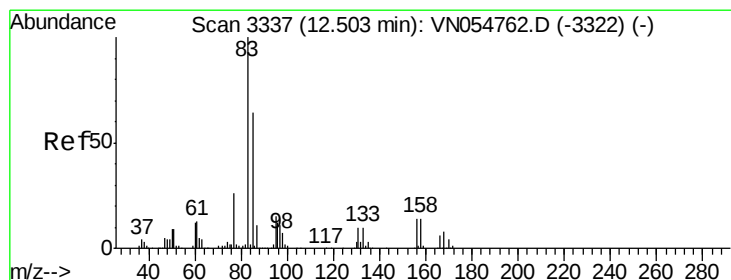
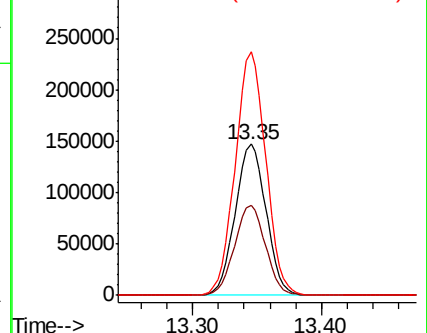
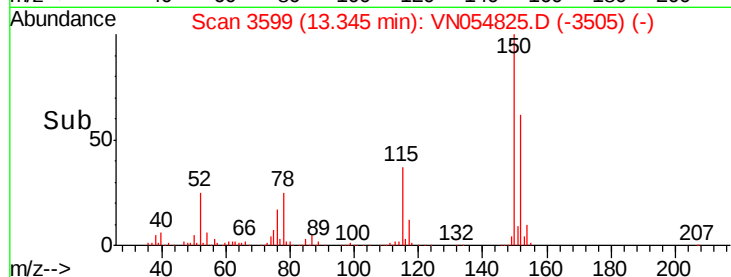
150 159.3 0.0 349.2



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: 12.41 min Scan# 3308

Delta R.T. -0.09 min

Lab File: VN054825.D

Acq: 31 Mar 2019 2:11

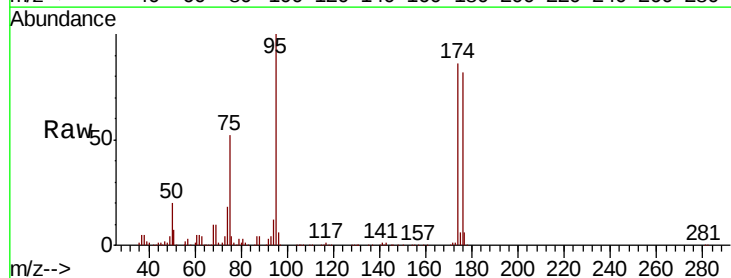
Tgt Ion: 83 Resp: 29

Ion Ratio Lower Upper

83 100

131 1396.6 5.8 17.4#

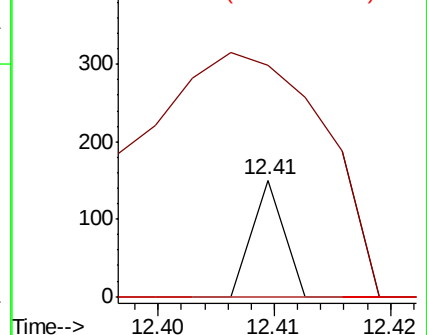
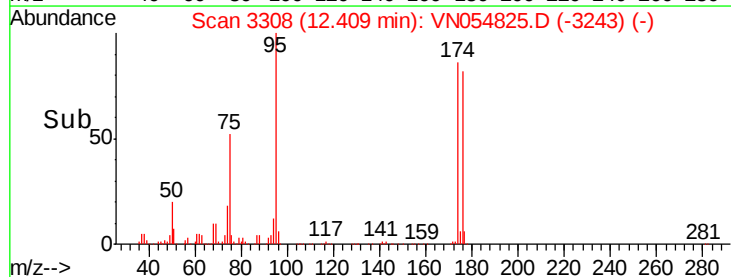
85 0.0 32.2 96.6#

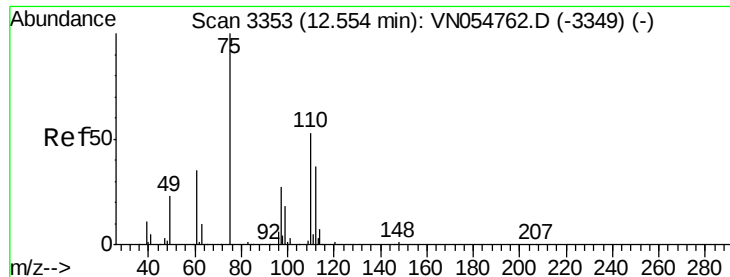


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 37.778 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN054825.D

Acq: 31 Mar 2019 2:11

Instrument :

MSVOA_N

ClientSampleId :

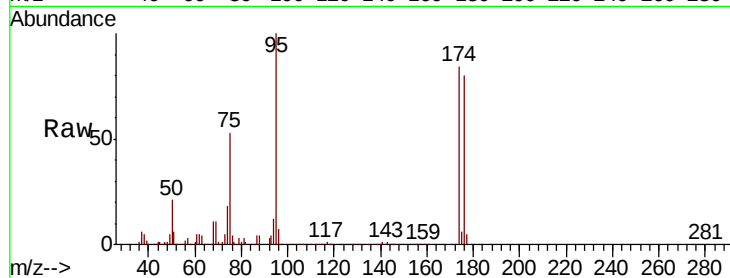
MW-3

Tot Ion: 75 Resp: 160603

Ion Ratio Lower Upper

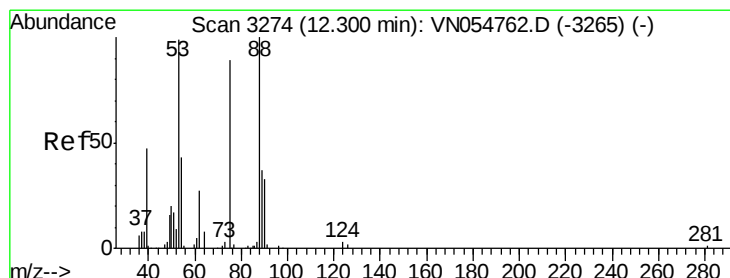
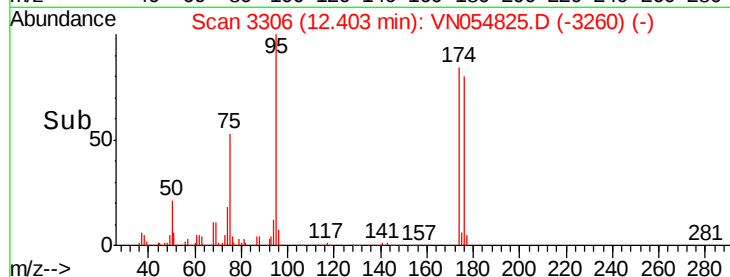
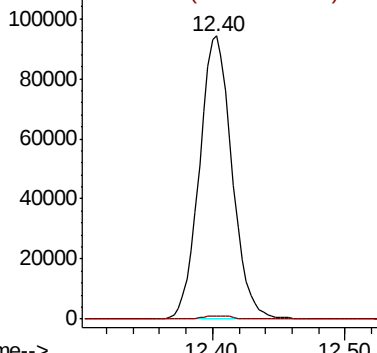
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 146.946 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN054825.D

Acq: 31 Mar 2019 2:11

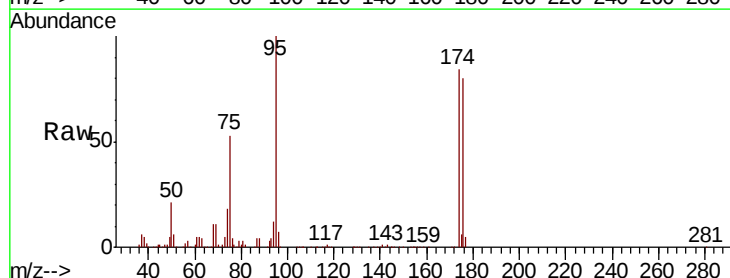
Tgt Ion: 75 Resp: 160603

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

