

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031419\
 Data File : VN054255.D
 Acq On : 14 Mar 2019 12:16
 Operator : JC/SP
 Sample : K1902-10 50X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 51065

Quant Time: Mar 15 06:51:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1358666	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2235880	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2384087	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	1005988	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	717749	49.74	ug/l	0.00
Spiked Amount						
			Recovery	=	99.48%	
35) Dibromofluoromethane	7.59	113	684310	47.45	ug/l	0.00
Spiked Amount						
			Recovery	=	94.90%	
50) Toluene-d8	10.09	98	2817977	52.91	ug/l	0.00
Spiked Amount						
			Recovery	=	105.82%	
62) 4-Bromofluorobenzene	12.40	95	1085339	58.24	ug/l	0.00
Spiked Amount						
			Recovery	=	116.48%	

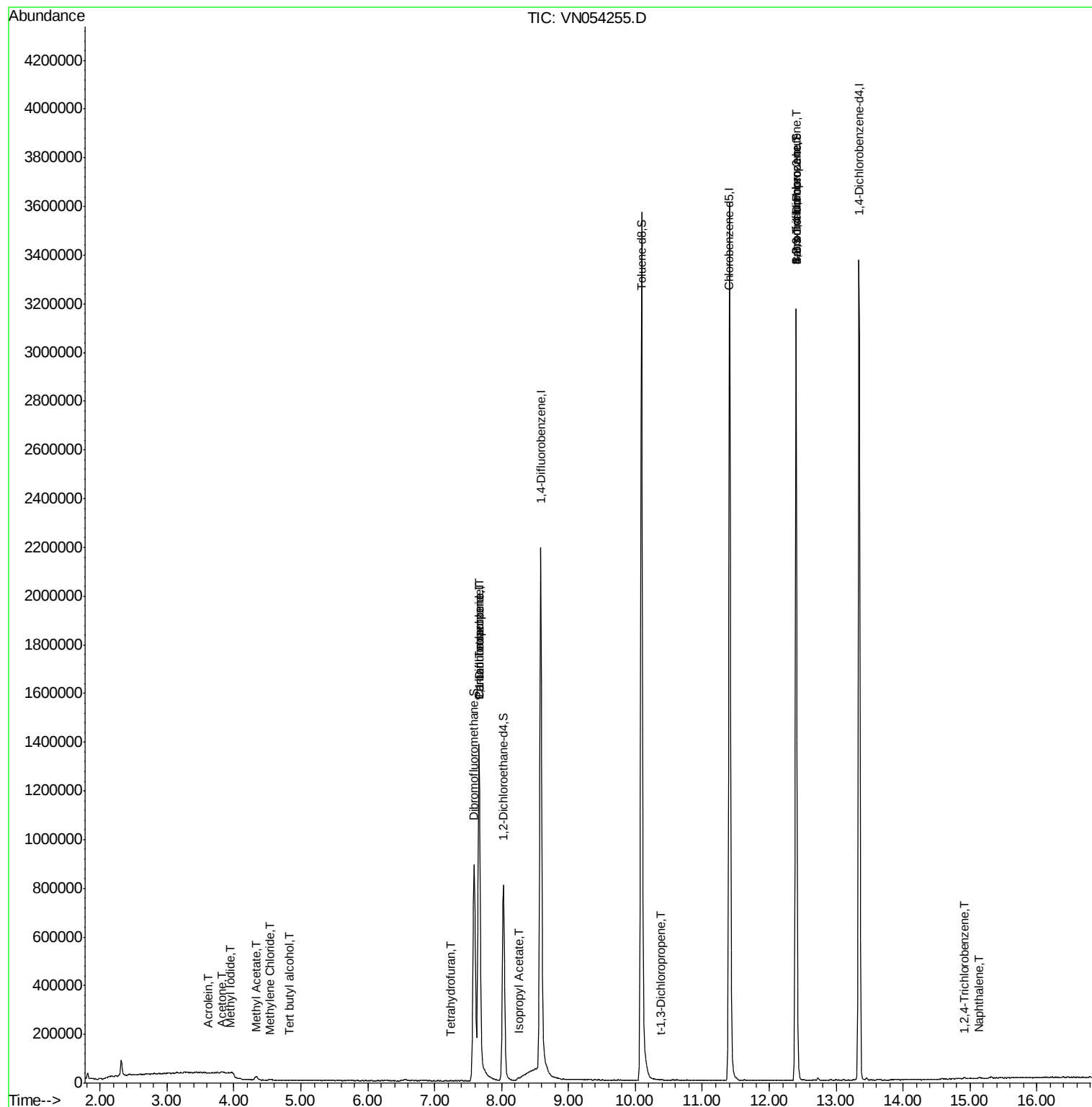
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.95	142	288	1.511	ug/l #	81
11) Tert butyl alcohol	4.81	59	590	0.596	ug/l	97
13) Acrolein	3.62	56	242	0.258	ug/l	92
16) Acetone	3.83	43	6353	1.538	ug/l	92
18) Methyl Acetate	4.34	43	27763	3.322	ug/l	95
20) Methylene Chloride	4.55	84	2817	0.208	ug/l #	67
29) Tetrahydrofuran	7.23	42	721	0.231	ug/l #	42
31) Cyclohexane	7.67	56	20802	Below Cal	#	3
36) 1,1-Dichloropropene	7.66	75	78772	3.826	ug/l #	48
38) Carbon Tetrachloride	7.66	117	110064	5.097	ug/l #	16
43) Isopropyl Acetate	8.26	43	11202	0.539	ug/l #	60
53) t-1,3-Dichloropropene	10.38	75	30	1.987	ug/l #	1
71) Bromoform	12.40	173	6180	2.757	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	519368	35.108	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	519368	120.014	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	1696	2.593	ug/l	61
95) Naphthalene	15.14	128	4437	3.563	ug/l #	93

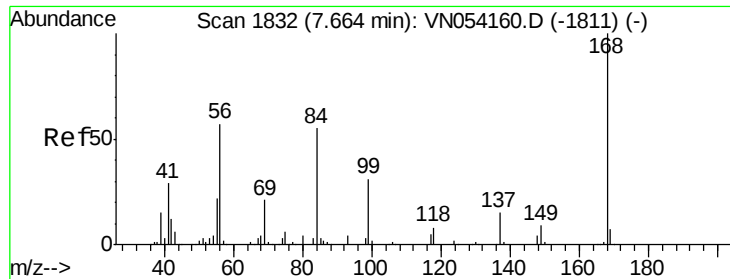
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054255.D

Acq: 14 Mar 2019 12:16

Instrument :

MSVOA_N

ClientSampleId :

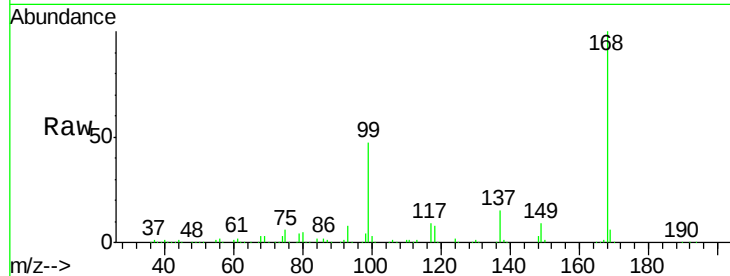
51065

Tot Ion:168 Resp: 1358666

Ion Ratio Lower Upper

168 100

99 47.4 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

600000

500000

400000

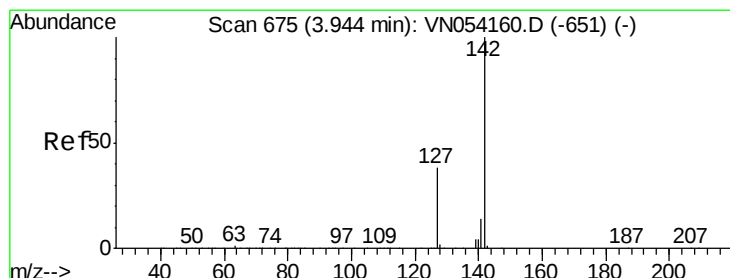
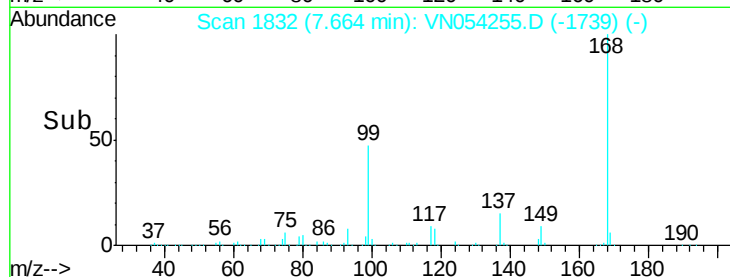
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80



#10

Methyl Iodide

Concen: 1.511 ug/l

RT: 3.95 min Scan# 678

Delta R.T. 0.01 min

Lab File: VN054255.D

Acq: 14 Mar 2019 12:16

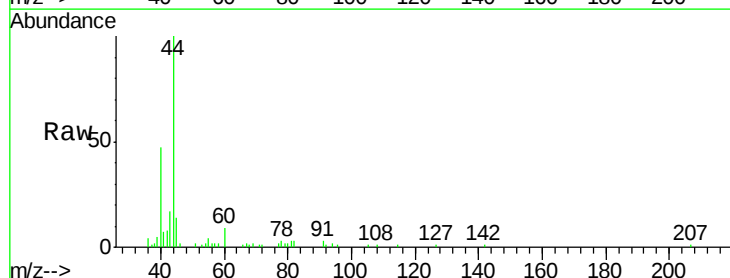
Tgt Ion:142 Resp: 288

Ion Ratio Lower Upper

142 100

127 24.3 30.3 45.5#

141 10.1 11.2 16.8#



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

300

250

200

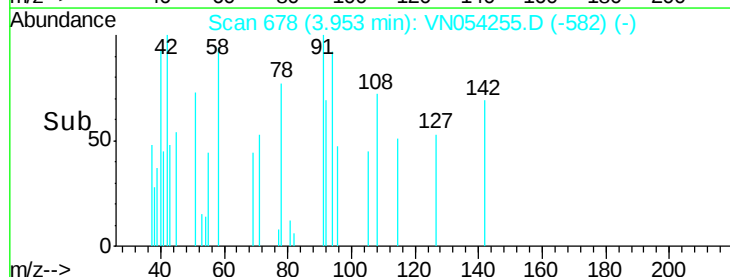
150

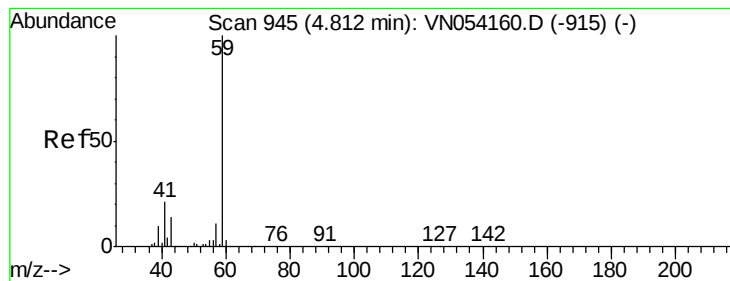
100

50

0

Time--> 3.92 3.94 3.96



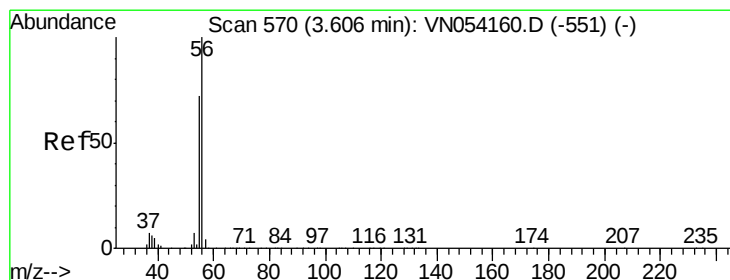
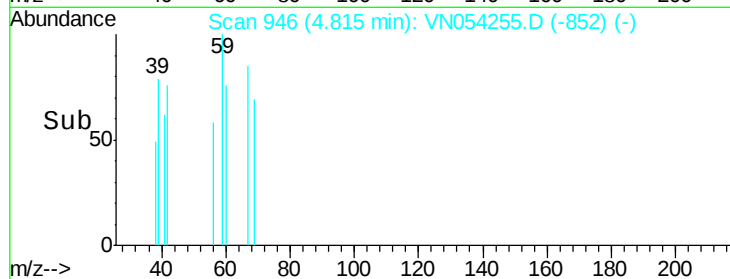
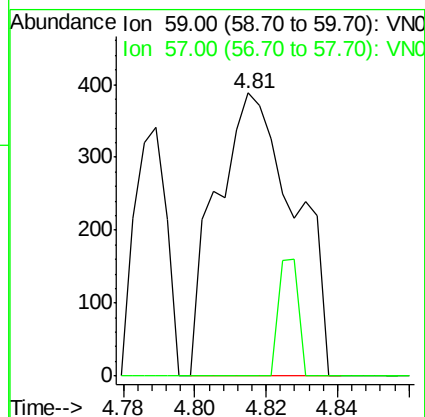
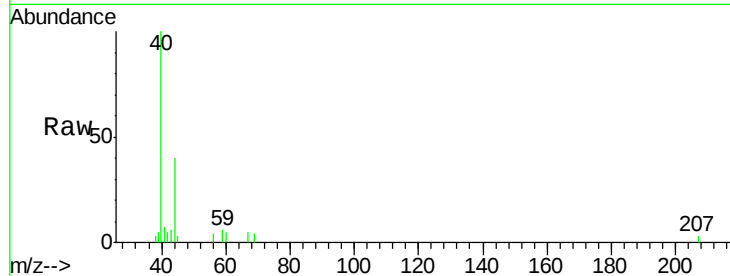


#11

Tert butyl alcohol
 Concen: 0.596 ug/l
 RT: 4.81 min Scan# 946
 Delta R.T. 0.00 min
 Lab File: VN054255.D
 Acq: 14 Mar 2019 12:16

Instrument :
 MSVOA_N
 ClientSampled :
 51065

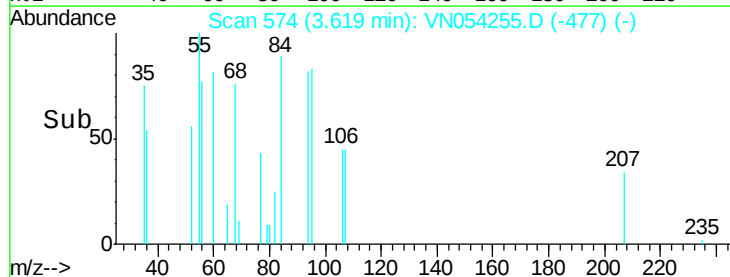
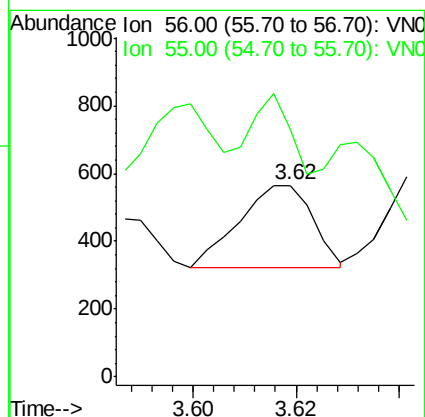
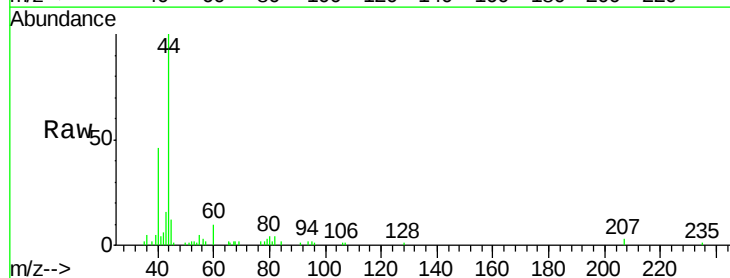
Tot Ion: 59 Resp: 590
 Ion Ratio Lower Upper
 59 100
 57 10.3 9.0 13.6

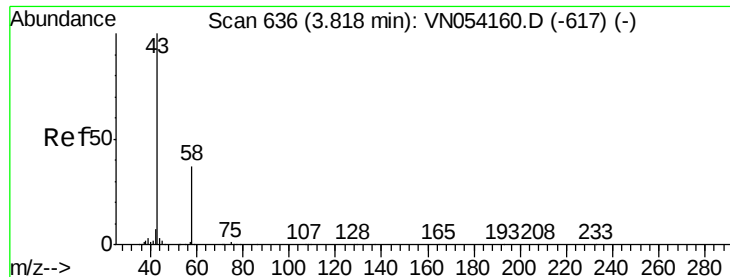


#13

Acrolein
 Concen: 0.258 ug/l
 RT: 3.62 min Scan# 574
 Delta R.T. 0.01 min
 Lab File: VN054255.D
 Acq: 14 Mar 2019 12:16

Tgt Ion: 56 Resp: 242
 Ion Ratio Lower Upper
 56 100
 55 64.0 56.7 85.1





#16

Acetone

Concen: 1.538 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN054255.D

Acq: 14 Mar 2019 12:16

Instrument :

MSVOA_N

ClientSampled :

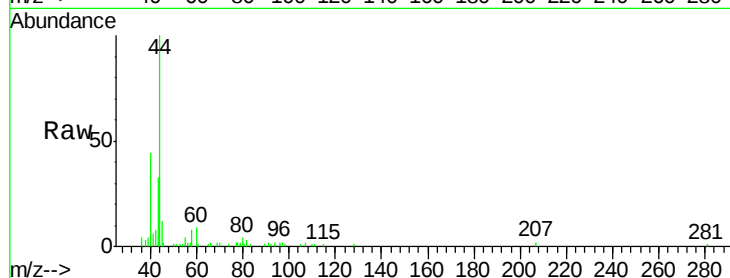
51065

Tot Ion: 43 Resp: 6353

Ion Ratio Lower Upper

43 100

58 32.8 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

6000

5000

4000

3000

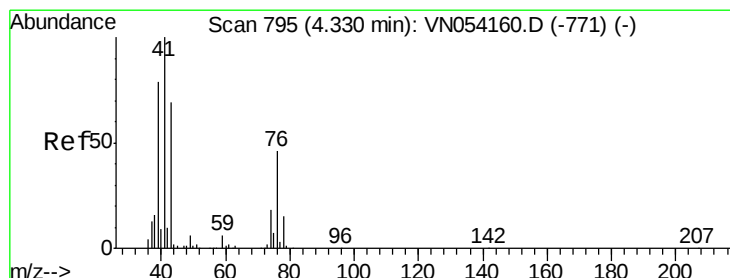
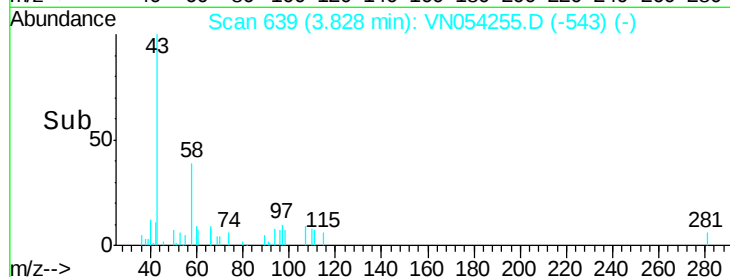
2000

1000

0

3.80 3.85

Time-->



#18

Methyl Acetate

Concen: 3.322 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN054255.D

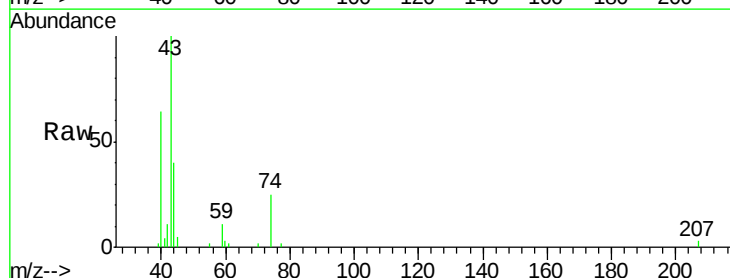
Acq: 14 Mar 2019 12:16

Tgt Ion: 43 Resp: 27763

Ion Ratio Lower Upper

43 100

74 28.4 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

10000

8000

6000

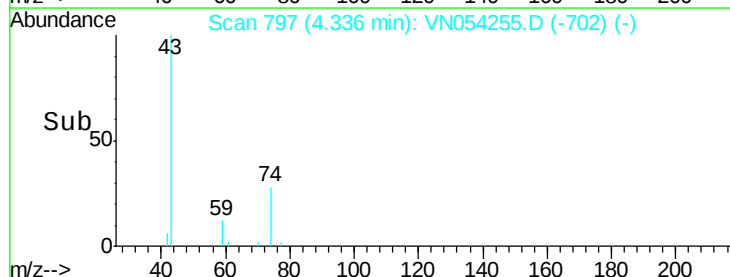
4000

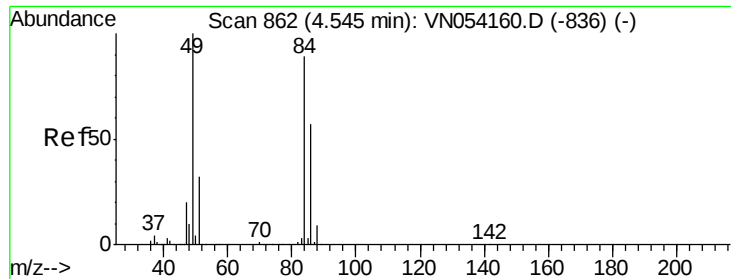
2000

0

4.25 4.30 4.35 4.40

Time-->





#20

Methylene Chloride

Concen: 0.208 ug/l

RT: 4.55 min Scan# 864

Delta R.T. 0.01 min

Lab File: VN054255.D

Acq: 14 Mar 2019 12:16

Instrument :

MSVOA_N

ClientSampleId :

51065

Tot Ion: 84 Resp: 2817

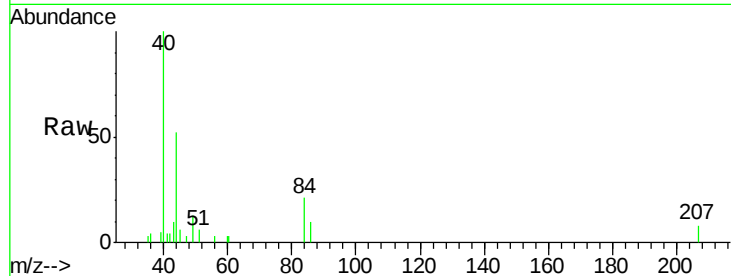
Ion Ratio Lower Upper

84 100

49 61.1 89.7 134.5#

51 29.3 28.2 42.4

86 47.9 50.8 76.2#

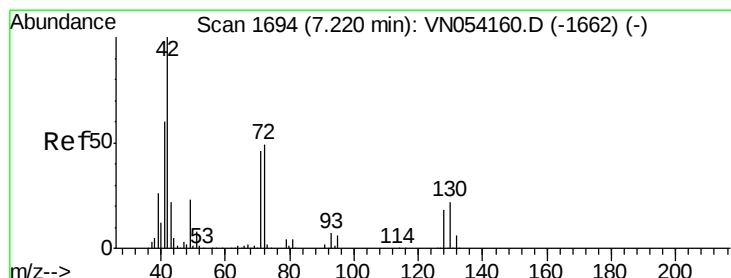
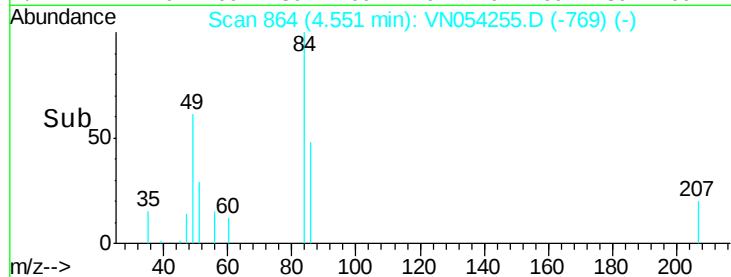
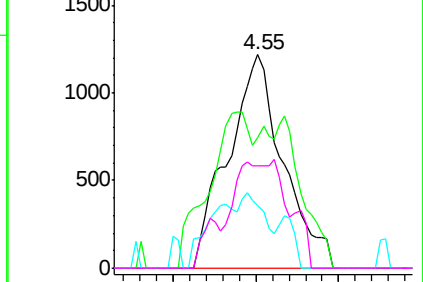


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#29

Tetrahydrofuran

Concen: 0.231 ug/l

RT: 7.23 min Scan# 1698

Delta R.T. 0.01 min

Lab File: VN054255.D

Acq: 14 Mar 2019 12:16

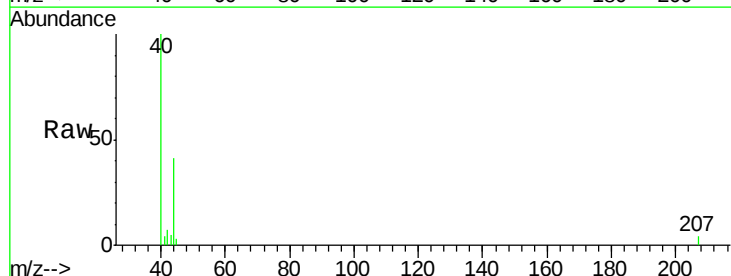
Tgt Ion: 42 Resp: 721

Ion Ratio Lower Upper

42 100

72 15.8 37.8 56.6#

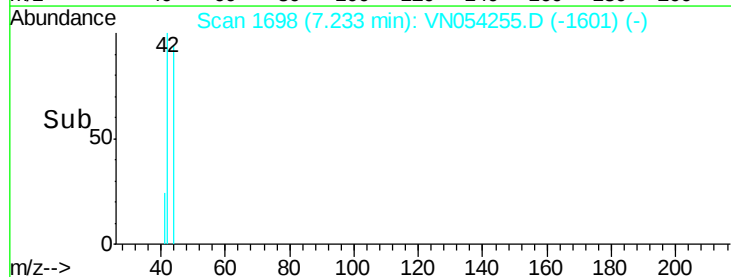
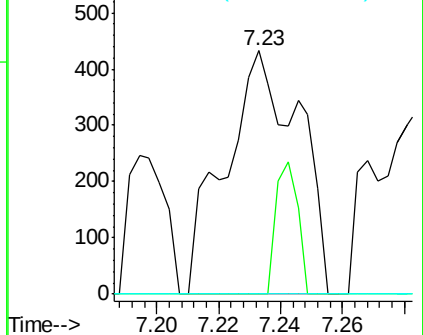
71 0.0 36.2 54.2#

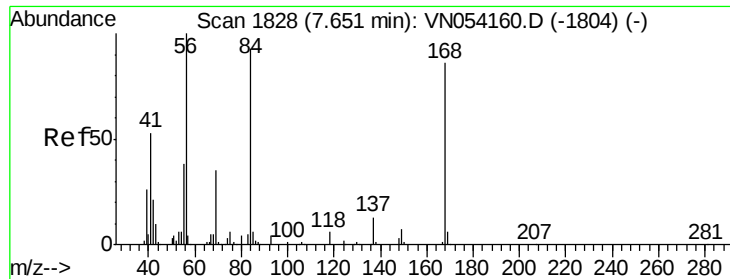


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

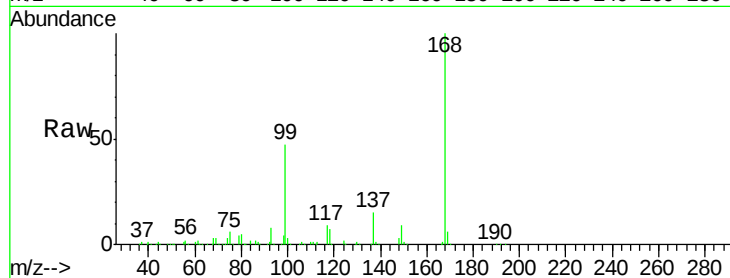




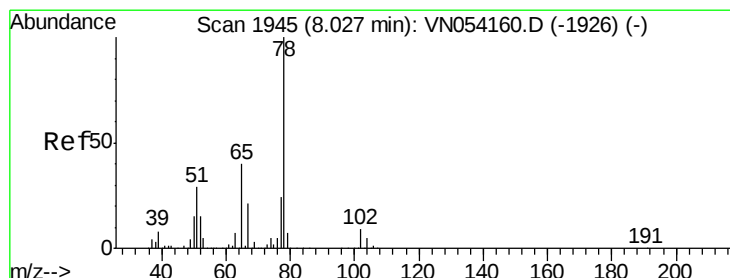
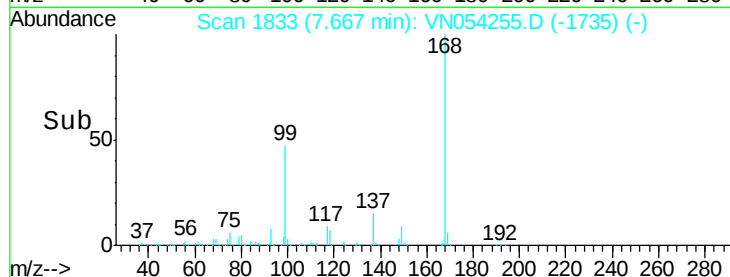
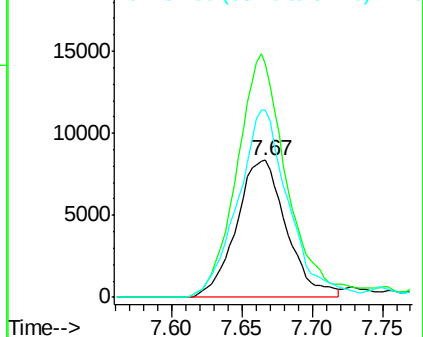
#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.02 min
Lab File: VN054255.D
Acq: 14 Mar 2019 12:16

Instrument :
MSVOA_N
ClientSampled :
51065

Tot Ion: 56 Resp: 20802
Ion Ratio Lower Upper
56 100
69 170.5 27.8 41.6#
84 137.0 74.6 111.8#

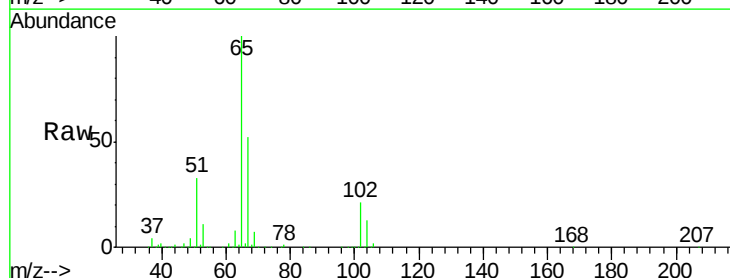


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

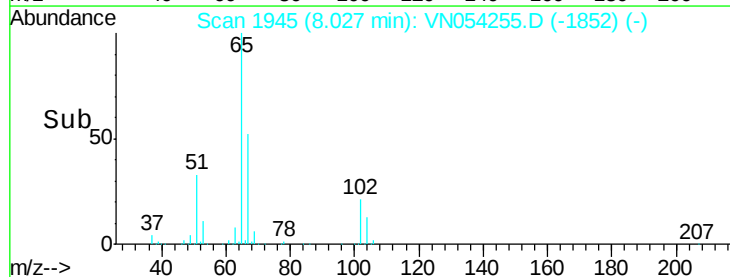
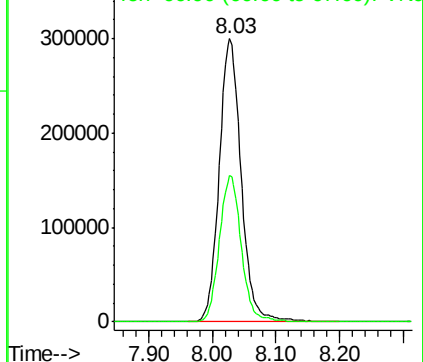


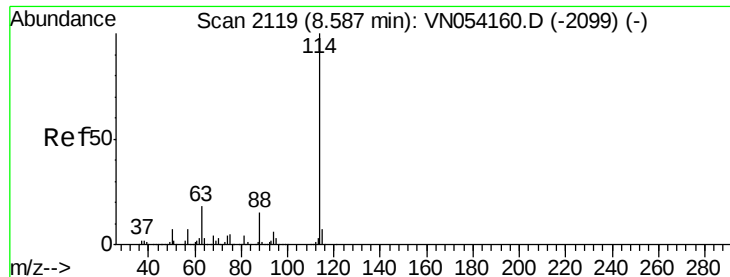
#33
1,2-Dichloroethane-d4
Concen: 49.743 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN054255.D
Acq: 14 Mar 2019 12:16

Tgt Ion: 65 Resp: 717749
Ion Ratio Lower Upper
65 100
67 51.5 0.0 104.6



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

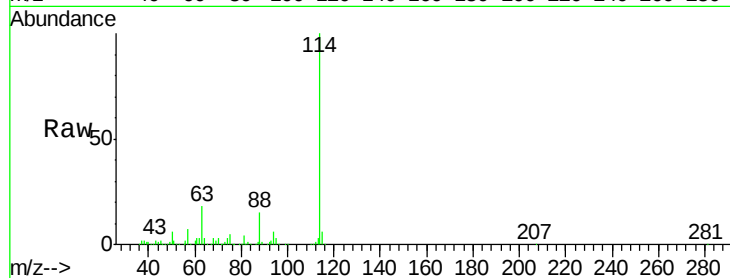




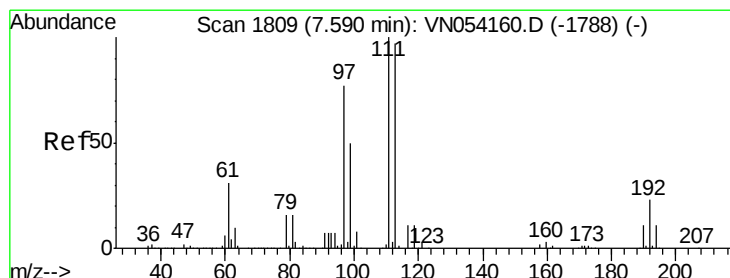
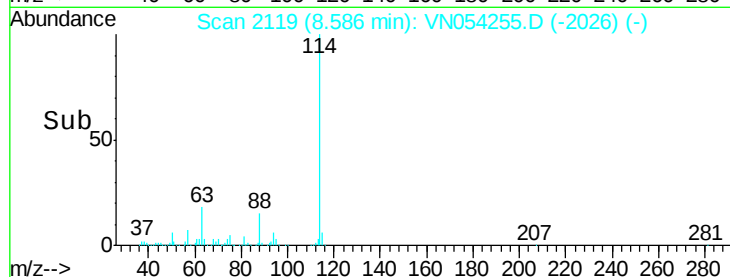
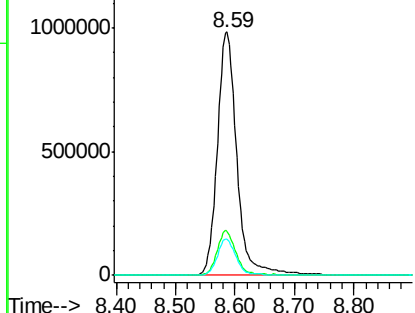
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054255.D
 Acq: 14 Mar 2019 12:16

Instrument :
 MSVOA_N
 ClientSampled :
 51065

Tot Ion:114 Resp: 2235880
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 35.2
 88 15.1 0.0 30.2

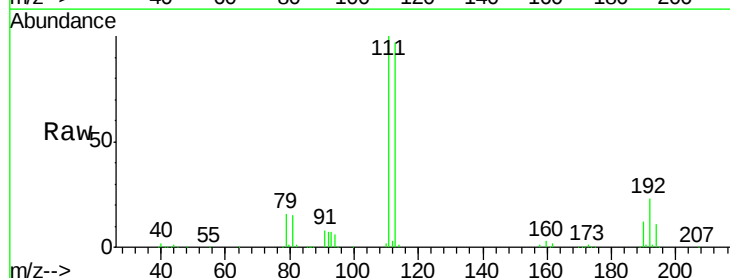


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

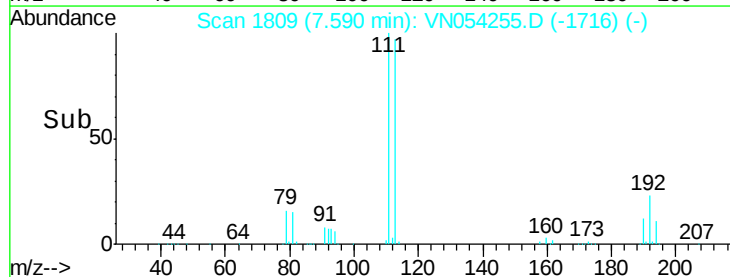
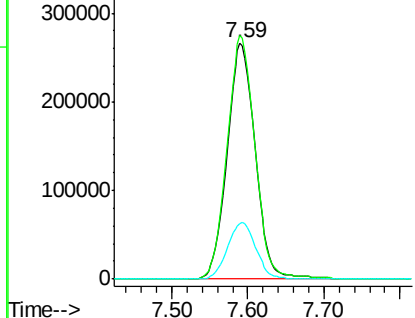


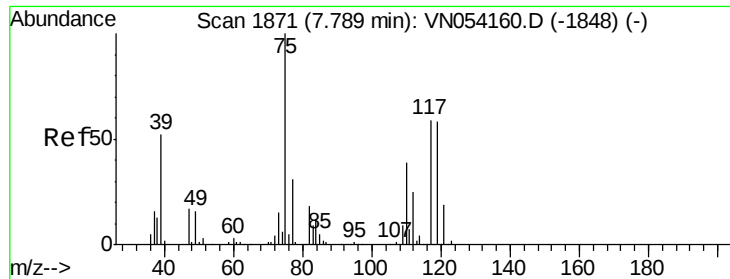
#35
 Dibromofluoromethane
 Concen: 47.454 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN054255.D
 Acq: 14 Mar 2019 12:16

Tgt Ion:113 Resp: 684310
 Ion Ratio Lower Upper
 113 100
 111 102.7 82.2 123.4
 192 24.3 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: 3.826 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054255.D

Acq: 14 Mar 2019 12:16

Instrument :

MSVOA_N

ClientSampleId :

51065

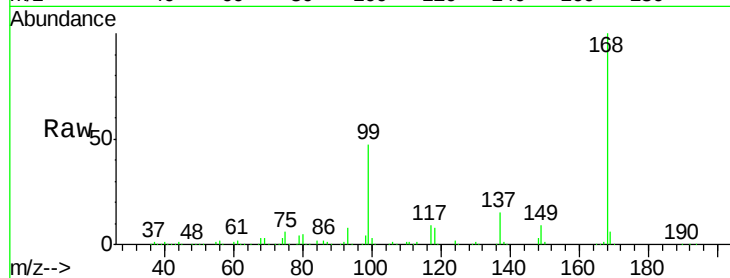
Tot Ion: 75 Resp: 78772

Ion Ratio Lower Upper

75 100

110 9.1 19.1 57.5#

77 0.0 25.0 37.4#

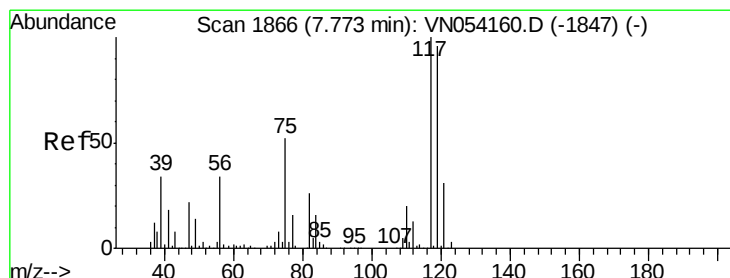
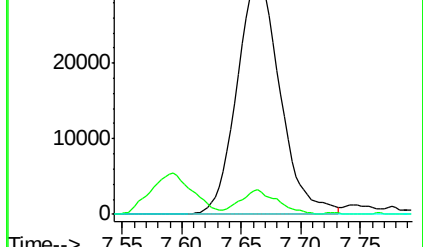
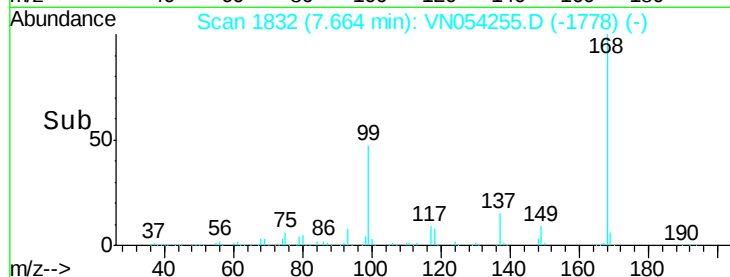


Abundance Ion 74.90 (74.60 to 75.60): VN054160.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN054160.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN054160.D (-1848) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.097 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054255.D

Acq: 14 Mar 2019 12:16

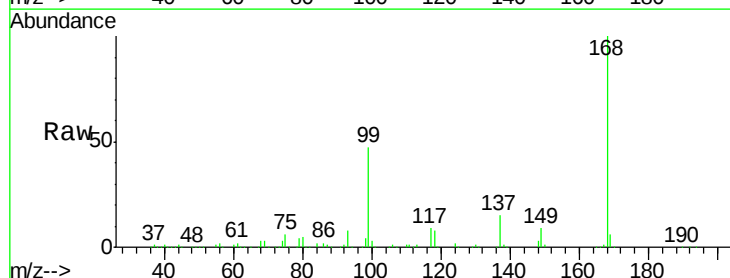
Tgt Ion: 117 Resp: 110064

Ion Ratio Lower Upper

117 100

119 4.9 76.3 114.5#

121 0.0 24.6 36.8#

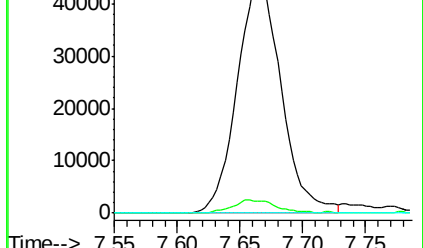
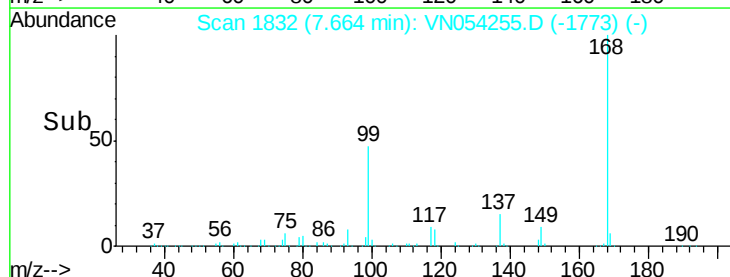


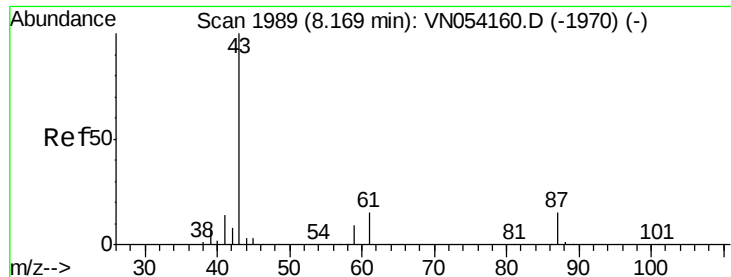
Abundance Ion 116.80 (116.50 to 117.50): VN054160.D (-1847) (-)

Ion 118.80 (118.50 to 119.50): VN054160.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN054160.D (-1847) (-)

Time-->





#43

Isopropyl Acetate

Concen: 0.539 ug/l

RT: 8.26 min Scan# 2019

Delta R.T. 0.10 min

Lab File: VN054255.D

Acq: 14 Mar 2019 12:16

Instrument :

MSVOA_N

ClientSampled :

51065

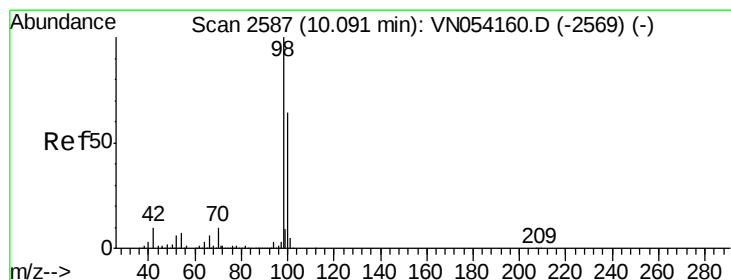
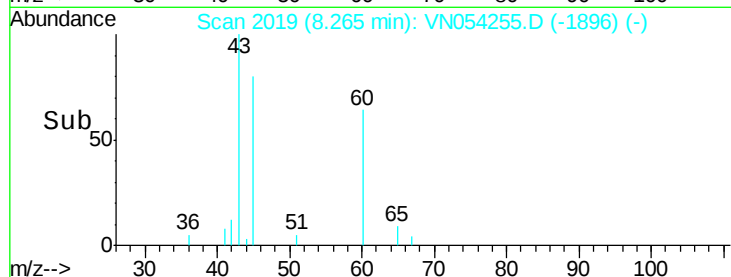
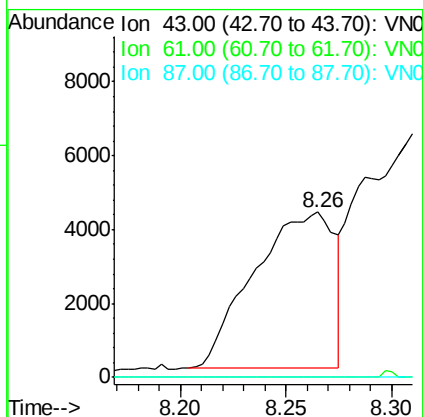
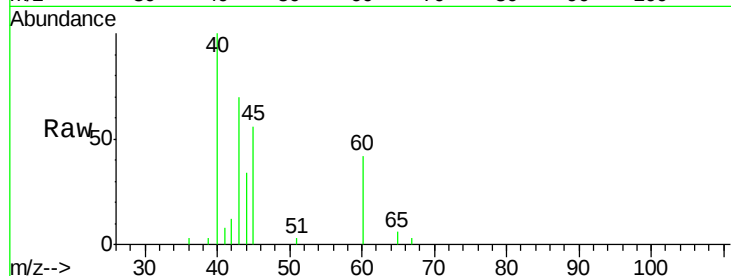
Tot Ion: 43 Resp: 11202

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.8#

87 0.0 12.0 18.0#



#50

Toluene-d8

Concen: 52.913 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054255.D

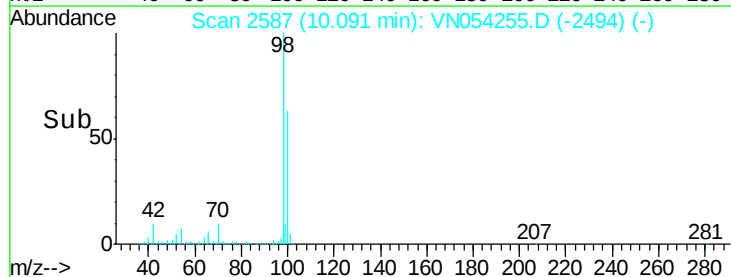
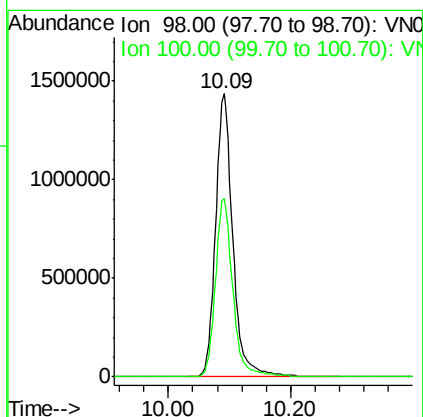
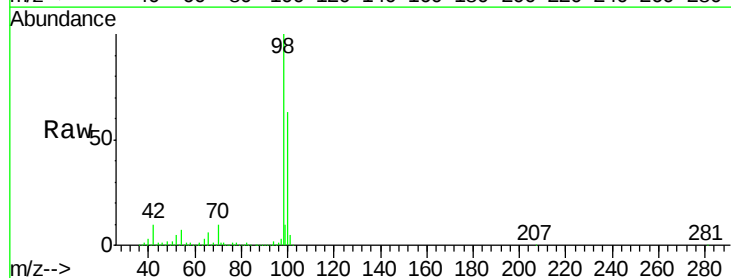
Acq: 14 Mar 2019 12:16

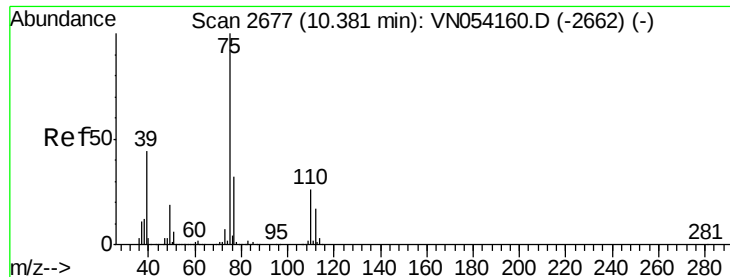
Tgt Ion: 98 Resp: 2817977

Ion Ratio Lower Upper

98 100

100 63.7 51.2 76.8





#53

t-1,3-Dichloropropene

Concen: 1.987 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN054255.D

Acq: 14 Mar 2019 12:16

Instrument :

MSVOA_N

ClientSampled :

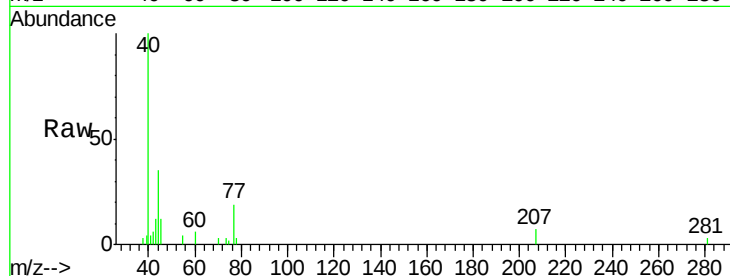
51065

Tot Ion: 75 Resp: 30

Ion Ratio Lower Upper

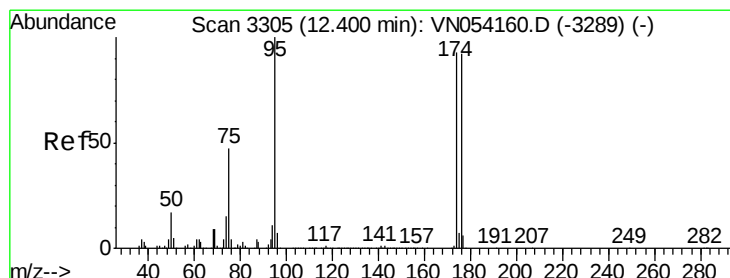
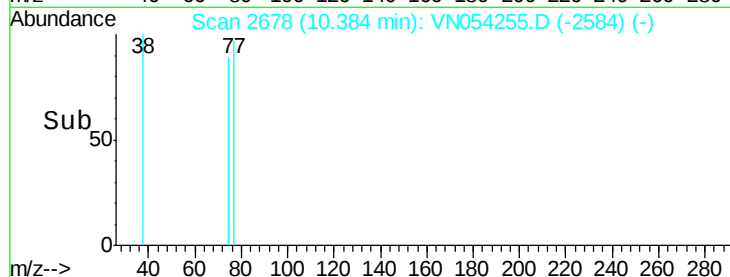
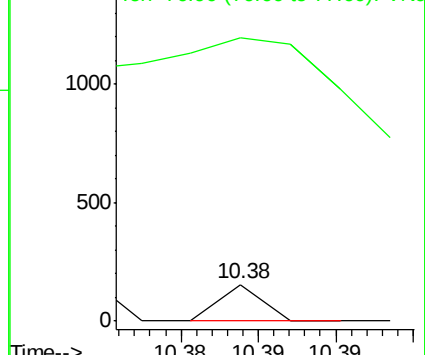
75 100

77 137.8 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#62

4-Bromofluorobenzene

Concen: 58.243 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054255.D

Acq: 14 Mar 2019 12:16

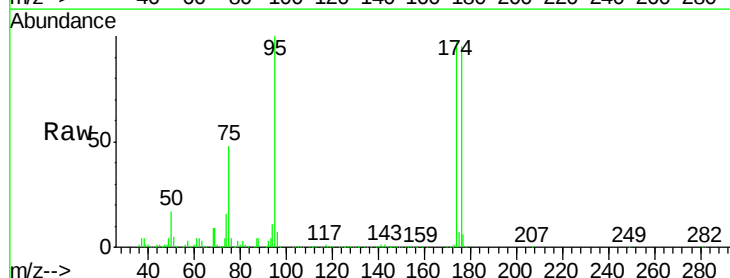
Tgt Ion: 95 Resp: 1085339

Ion Ratio Lower Upper

95 100

174 96.9 0.0 191.0

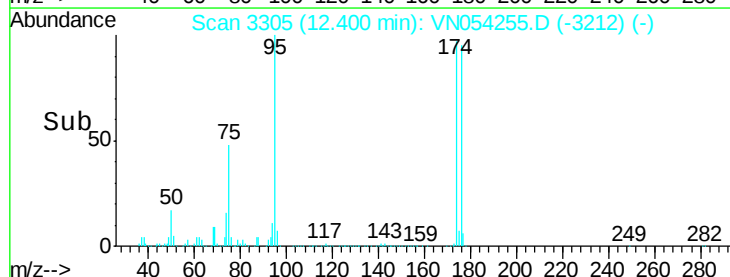
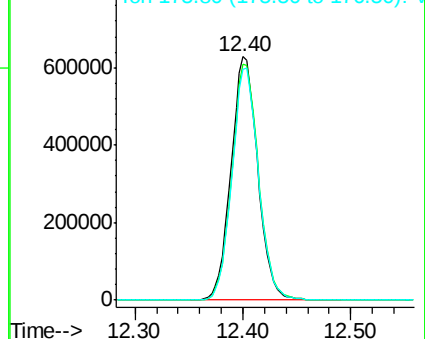
176 94.9 0.0 187.4

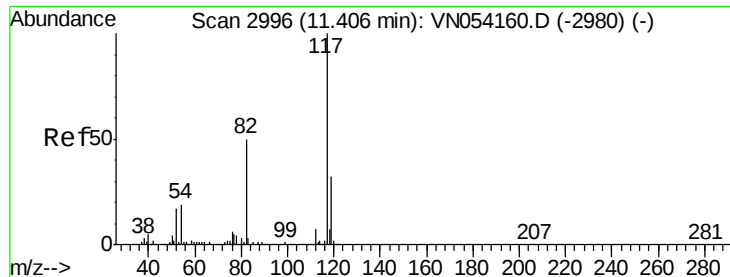


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

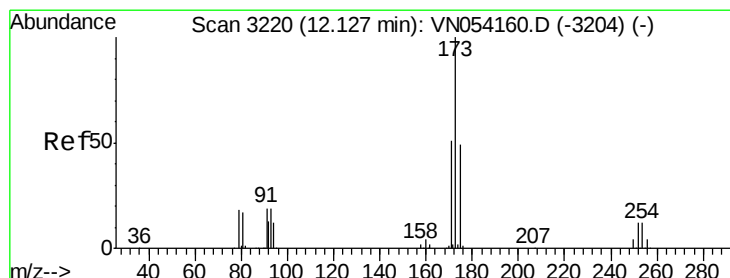
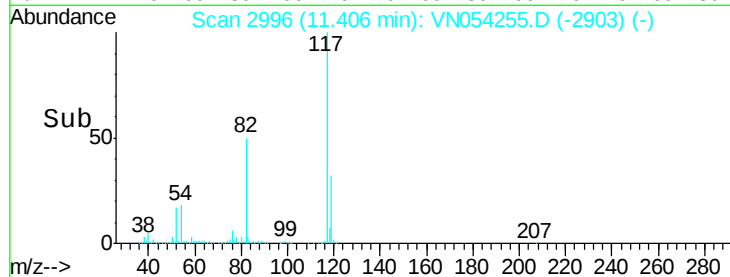
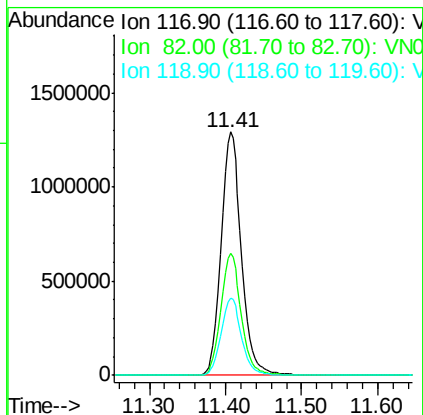
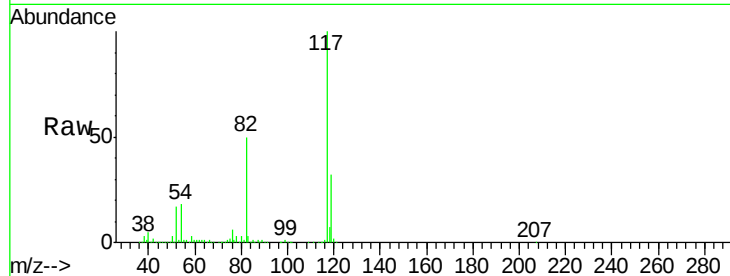




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054255.D
Acq: 14 Mar 2019 12:16

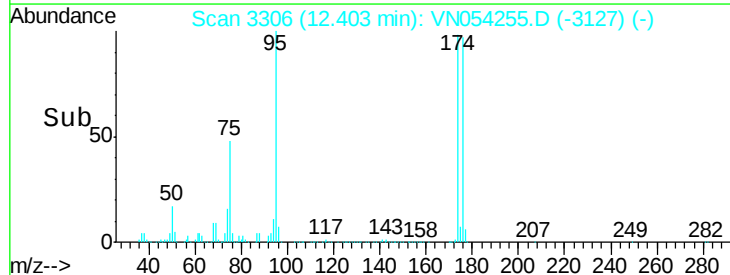
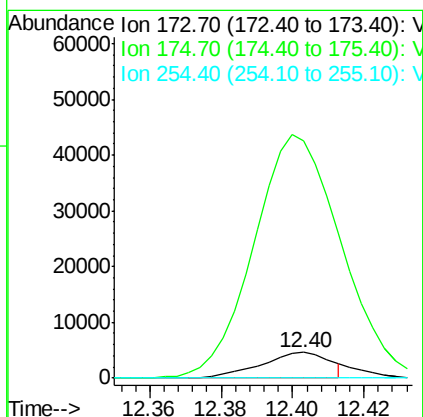
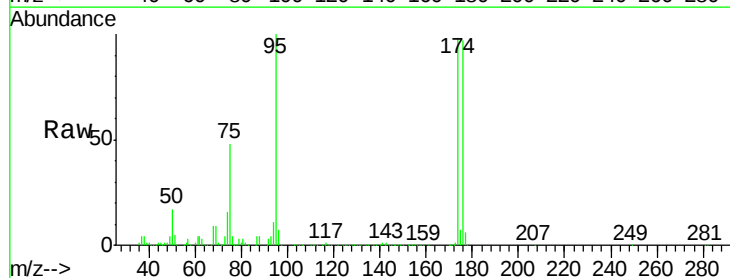
Instrument :
MSVOA_N
ClientSampleId :
51065

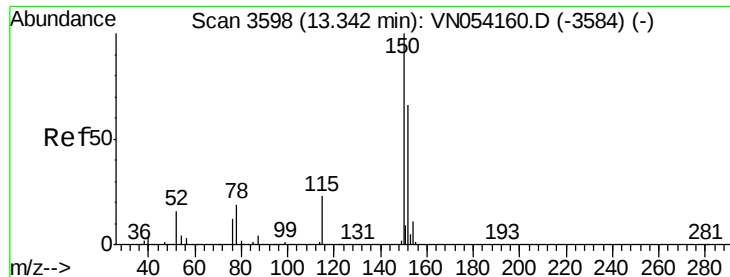
Tot Ion:117 Resp: 2384087
Ion Ratio Lower Upper
117 100
82 50.3 40.0 60.0
119 31.7 25.8 38.6



#71
Bromoform
Concen: 2.757 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN054255.D
Acq: 14 Mar 2019 12:16

Tgt Ion:173 Resp: 6180
Ion Ratio Lower Upper
173 100
175 1034.3 24.4 73.2#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN054255.D

Acq: 14 Mar 2019 12:16

Instrument :

MSVOA_N

ClientSampleId :

51065

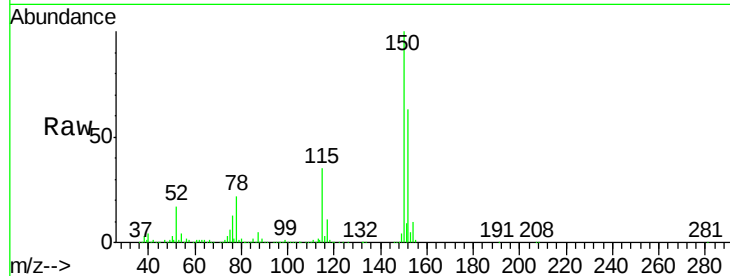
Tot Ion:152 Resp: 1005988

Ion Ratio Lower Upper

152 100

115 55.5 27.2 81.6

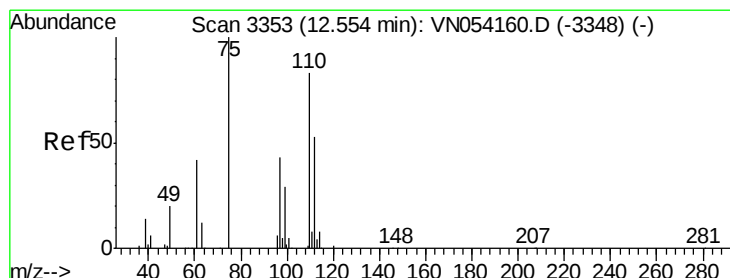
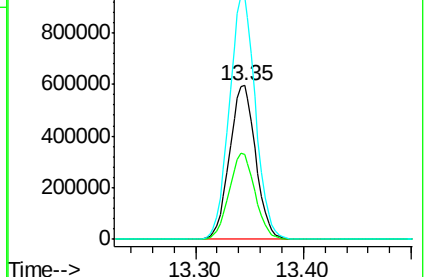
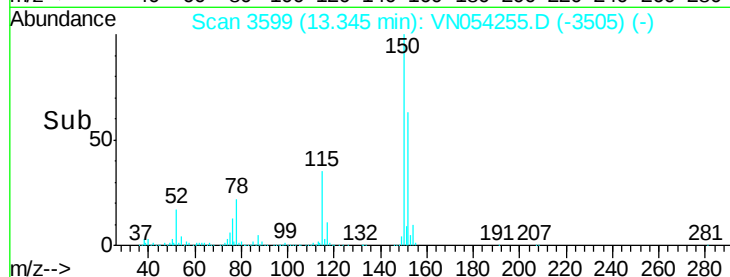
150 158.0 0.0 349.2



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



#76

1,2,3-Trichloropropane

Concen: 35.108 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054255.D

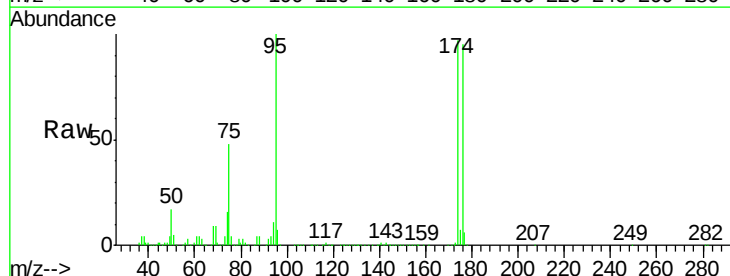
Acq: 14 Mar 2019 12:16

Tgt Ion: 75 Resp: 519368

Ion Ratio Lower Upper

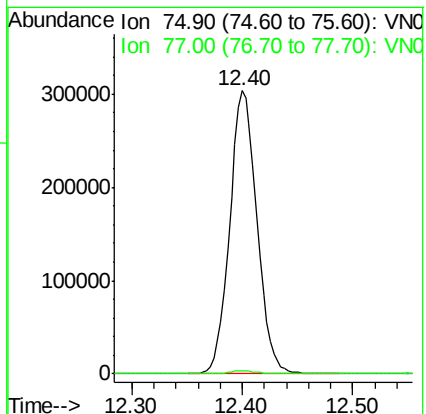
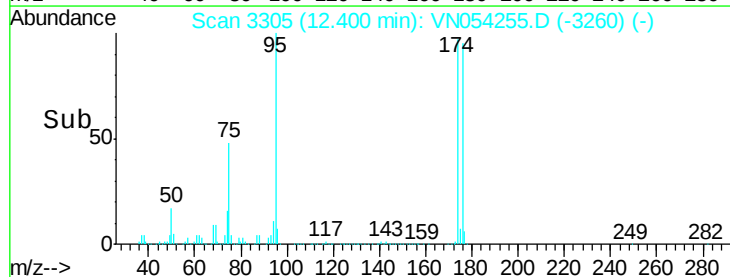
75 100

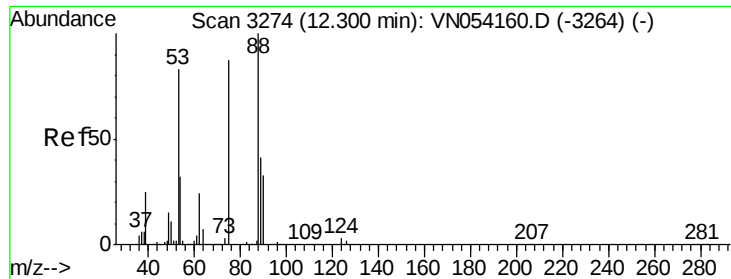
77 1.1 0.0 0.0#



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: 120.014 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054255.D

Acq: 14 Mar 2019 12:16

Instrument :

MSVOA_N

ClientSampled :

51065

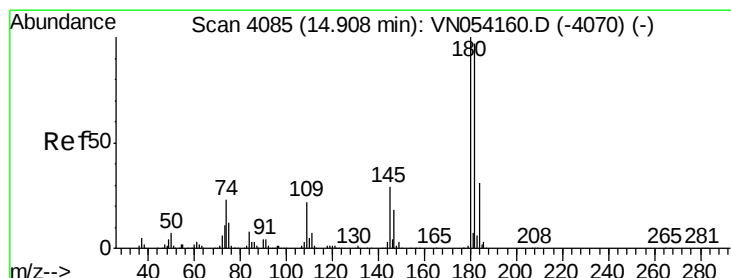
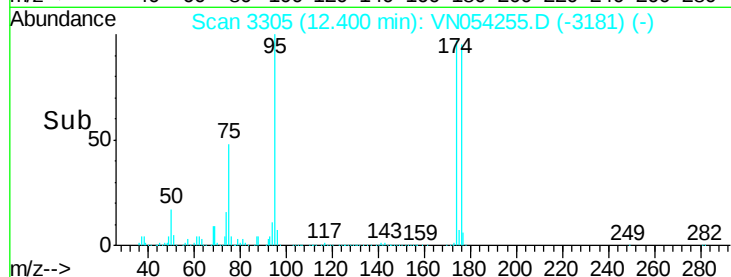
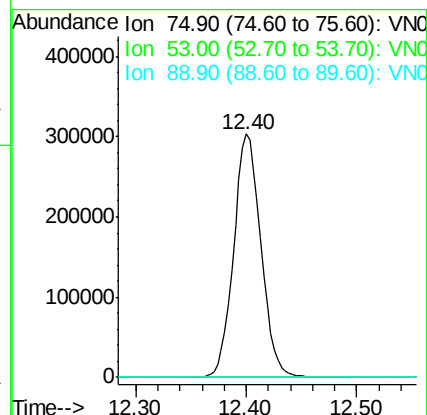
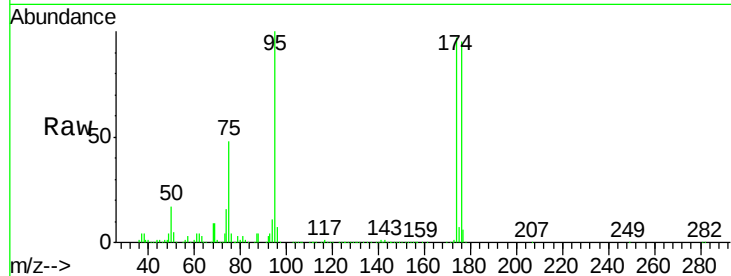
Tot Ion: 75 Resp: 519368

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#



#93

1,2,4-Trichlorobenzene

Concen: 2.593 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN054255.D

Acq: 14 Mar 2019 12:16

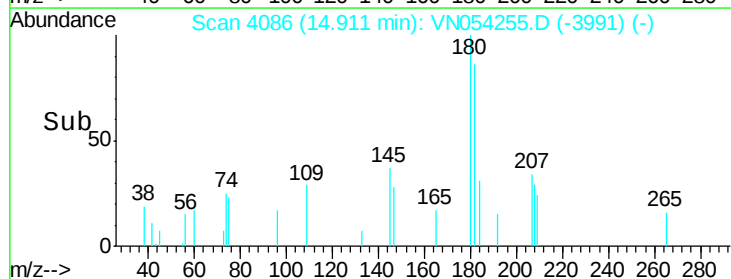
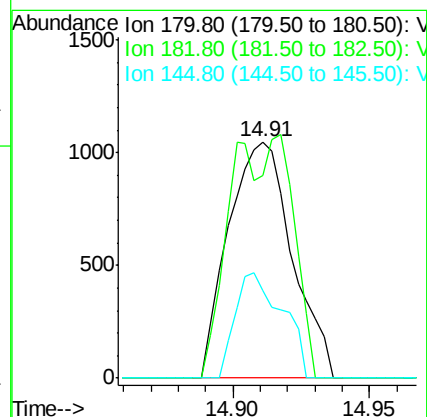
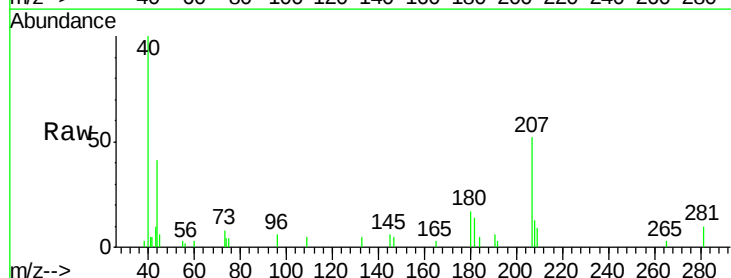
Tgt Ion: 180 Resp: 1696

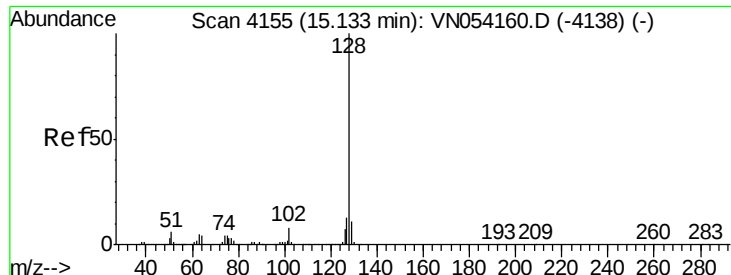
Ion Ratio Lower Upper

180 100

182 49.0 48.0 144.2

145 33.1 14.2 42.8





#95

Naphthalene

Concen: 3.563 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN054255.D

Acq: 14 Mar 2019 12:16

Instrument :

MSVOA_N

ClientSampleId :

51065

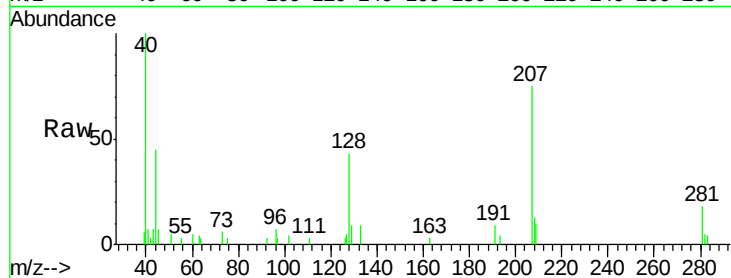
Tot Ion:128 Resp: 4437

Ion Ratio Lower Upper

128 100

127 8.1 10.1 15.1#

129 9.9 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

