

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032519\
 Data File : VN054674.D
 Acq On : 25 Mar 2019 15:52
 Operator : JC/SP
 Sample : K2040-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S4B(10)

Quant Time: Mar 26 01:26:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	553083	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	888128	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	761159	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	276788	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	360998	52.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.94%	
35) Dibromofluoromethane	7.59	113	287335	50.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.44%	
50) Toluene-d8	10.09	98	1076559	50.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.10%	
62) 4-Bromofluorobenzene	12.40	95	332919	45.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.96%	

Target Compounds

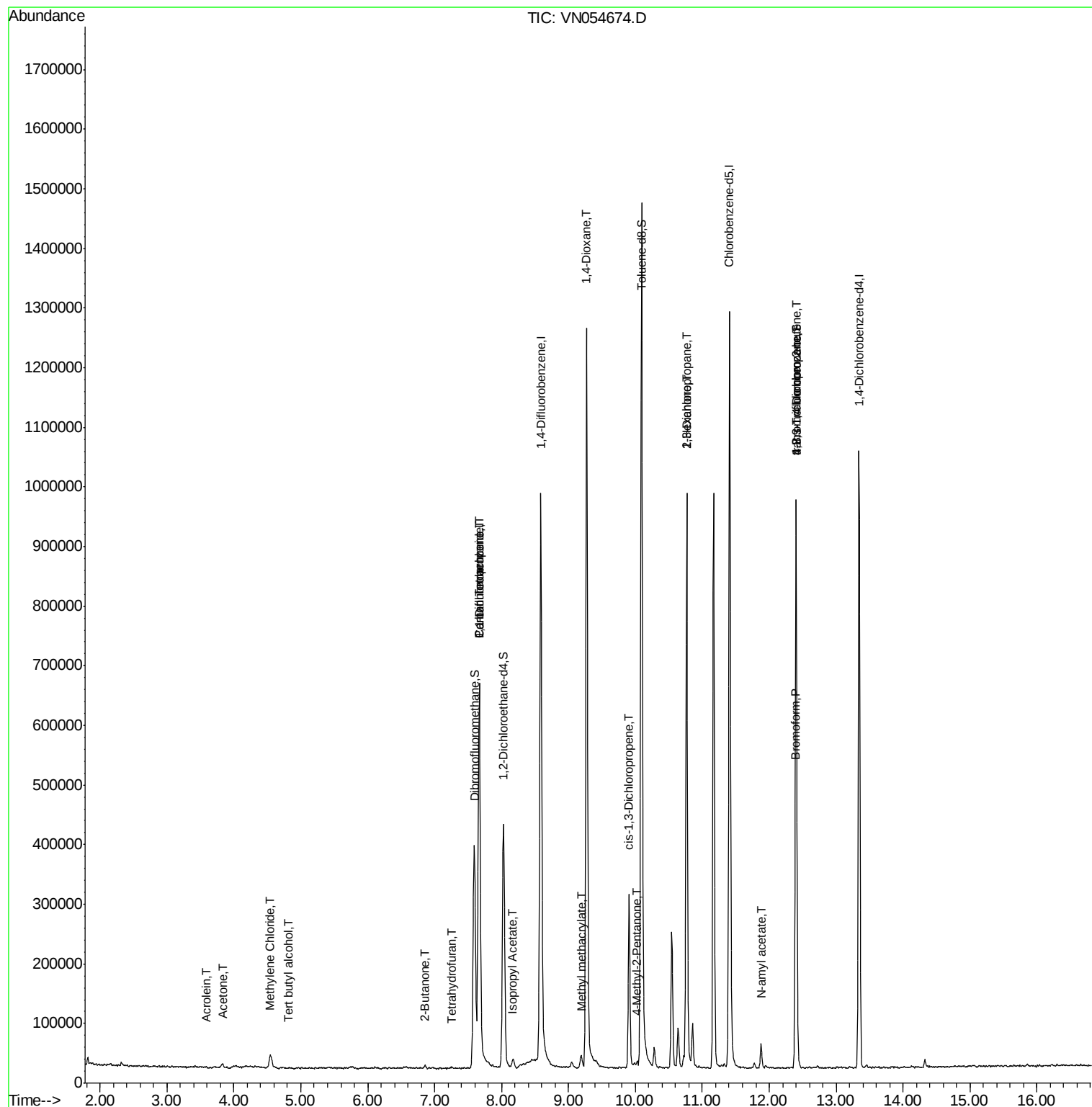
						Qvalue
11) Tert butyl alcohol	4.81	59	265	0.636	ug/l #	70
13) Acrolein	3.60	56	141	0.245	ug/l #	14
16) Acetone	3.83	43	11872	5.740	ug/l #	77
20) Methylene Chloride	4.54	84	14009	2.298	ug/l #	93
25) 2-Butanone	6.85	43	3258	1.230	ug/l	95
29) Tetrahydrofuran	7.24	42	1458	0.848	ug/l #	64
31) Cyclohexane	7.67	56	11988	Below Cal	#	18
36) 1,1-Dichloropropene	7.67	75	43379	5.224	ug/l #	47
38) Carbon Tetrachloride	7.67	117	51244	6.350	ug/l #	16
43) Isopropyl Acetate	8.17	43	17773	1.782	ug/l #	85
48) Methyl methacrylate	9.18	41	7228	1.335	ug/l #	26
49) 1,4-Dioxane	9.27	88	167	2.759	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	8309	1.503	ug/l #	36
54) cis-1,3-Dichloropropene	9.90	75	47671	5.266	ug/l #	74
57) 1,3-Dichloropropane	10.77	76	9247	1.013	ug/l #	43
59) 2-Hexanone	10.76	43	160744	44.517	ug/l #	47
71) Bromoform	12.38	173	38	2.230	ug/l #	28
74) N-amyl acetate	11.88	43	15009	2.340	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	170653	38.854	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	170653	128.617	ug/l #	11

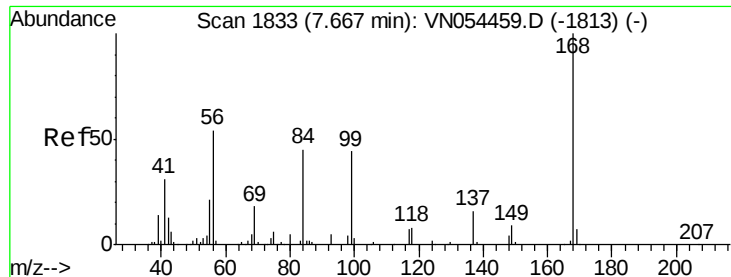
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Mar 22 02:09:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054674.D

Acq: 25 Mar 2019 15:52

Instrument :

MSVOA_N

ClientSampled :

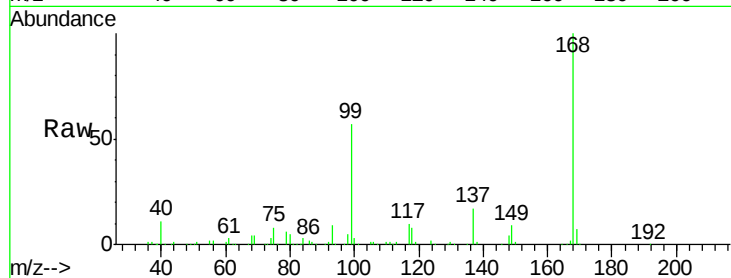
S4B(10)

Tot Ion:168 Resp: 553083

Ion Ratio Lower Upper

168 100

99 57.0 37.1 55.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

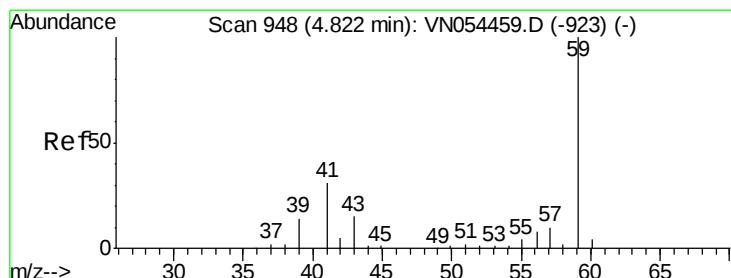
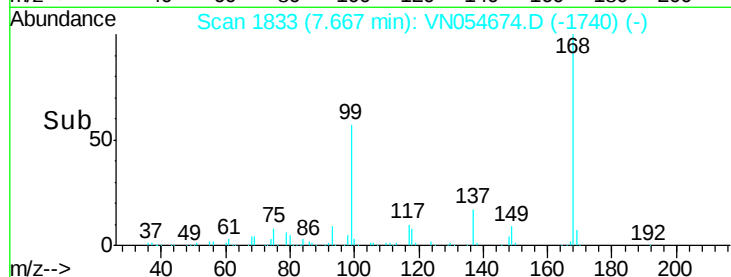
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.636 ug/l

RT: 4.81 min Scan# 945

Delta R.T. -0.01 min

Lab File: VN054674.D

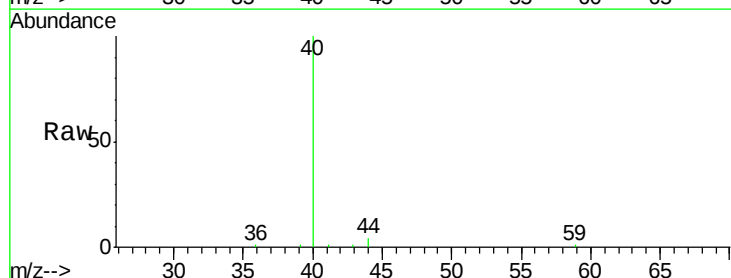
Acq: 25 Mar 2019 15:52

Tgt Ion: 59 Resp: 265

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.81

300

250

200

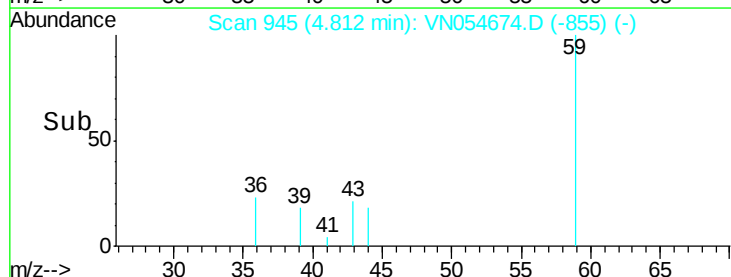
150

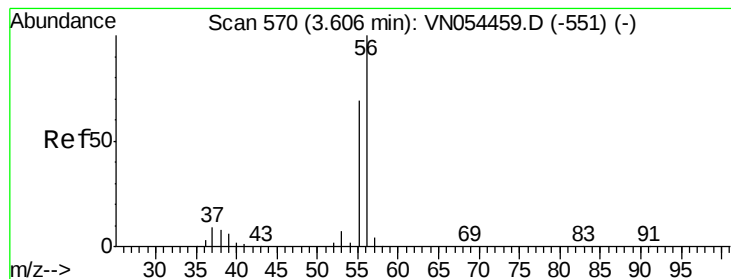
100

50

0

Time-->





#13

Acrolein

Concen: 0.245 ug/l

RT: 3.60 min Scan# 567

Delta R.T. -0.01 min

Lab File: VN054674.D

Acq: 25 Mar 2019 15:52

Instrument :

MSVOA_N

ClientSampleId :

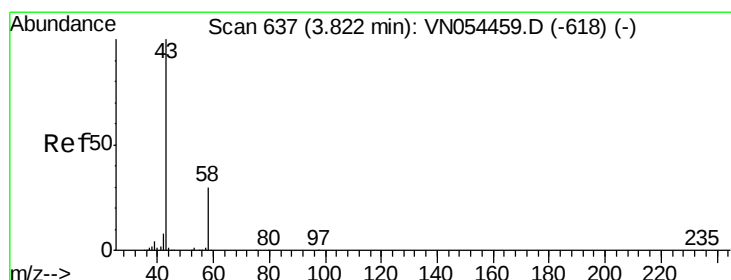
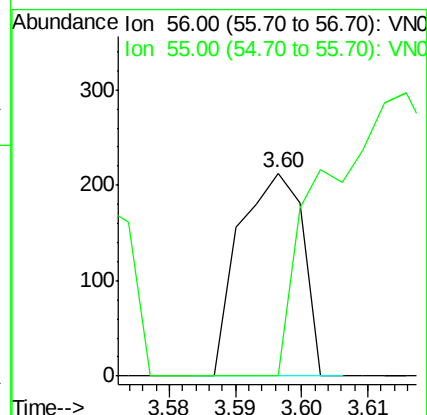
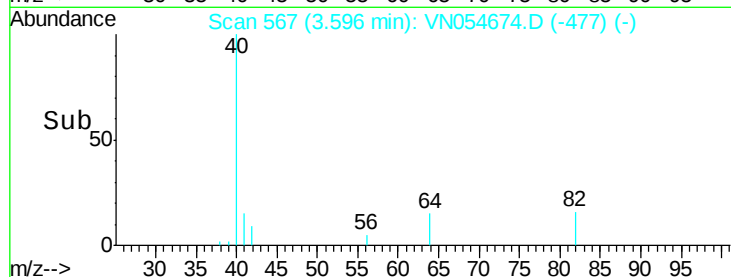
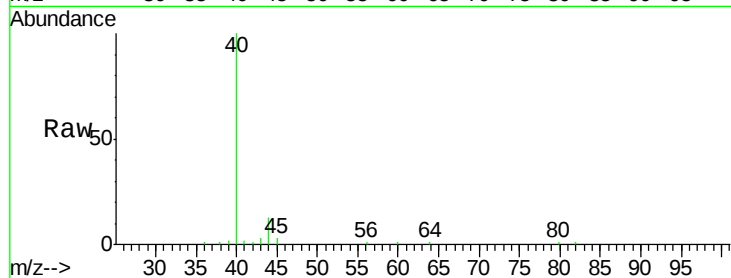
S4B(10)

Tot Ion: 56 Resp: 141

Ion Ratio Lower Upper

56 100

55 0.0 56.7 85.1#



#16

Acetone

Concen: 5.740 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN054674.D

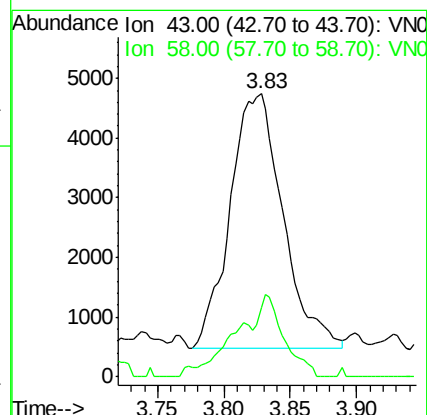
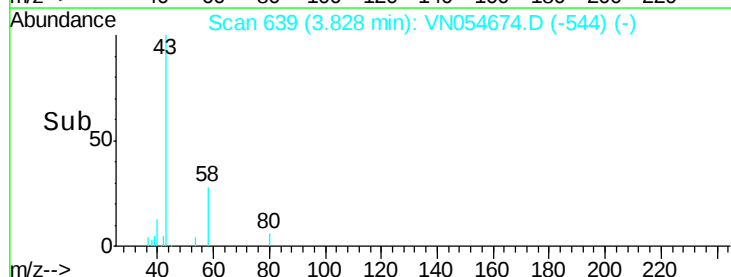
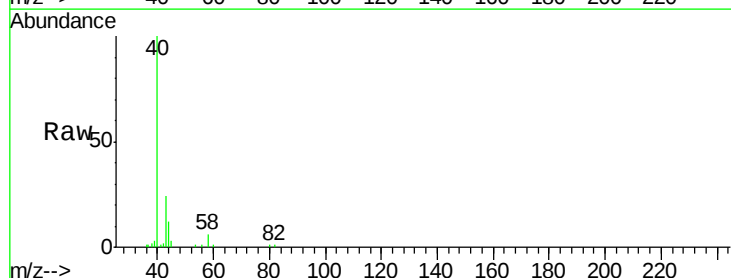
Acq: 25 Mar 2019 15:52

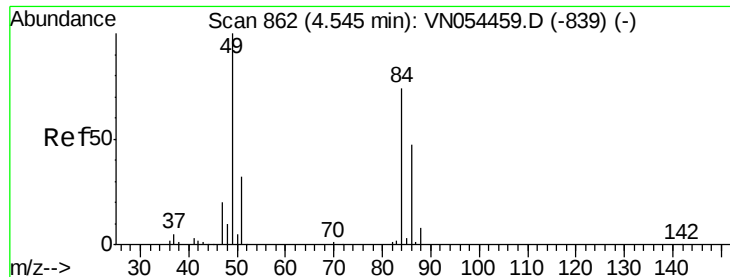
Tgt Ion: 43 Resp: 11872

Ion Ratio Lower Upper

43 100

58 23.4 29.9 44.9#

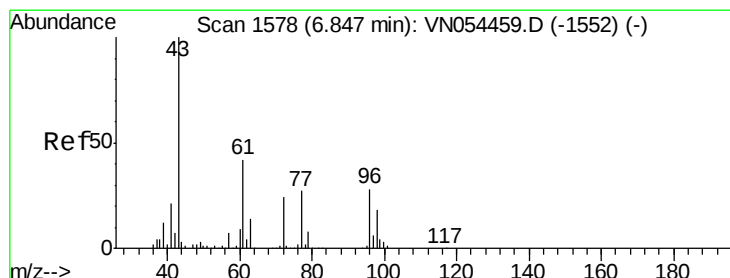
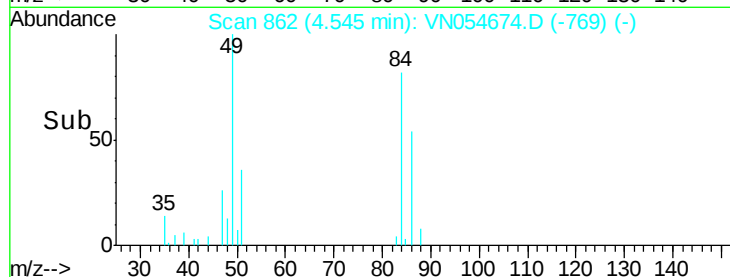
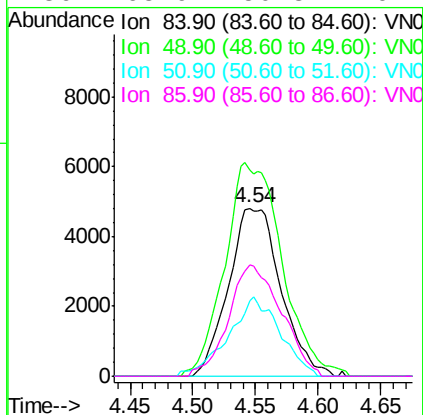
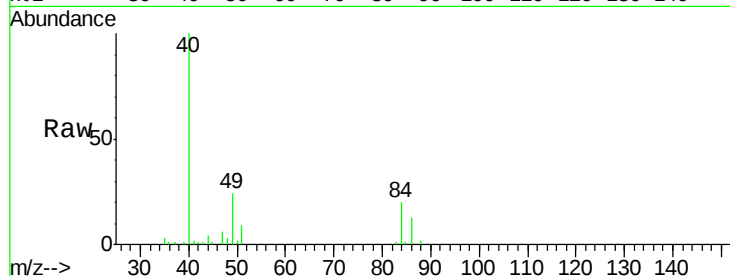




#20
Methvlene Chloride
Concen: 2.298 ug/l
RT: 4.54 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN054674.D
Acq: 25 Mar 2019 15:52

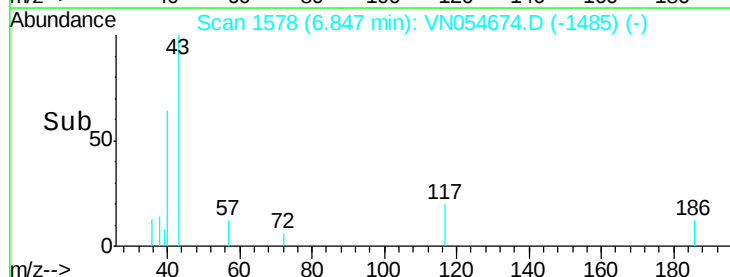
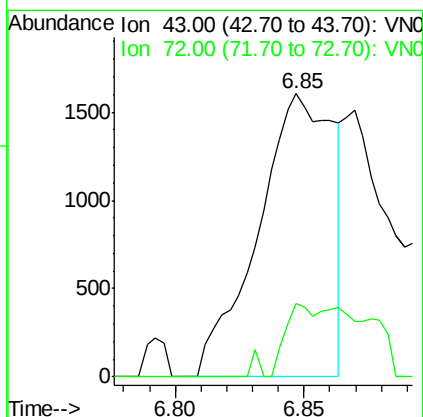
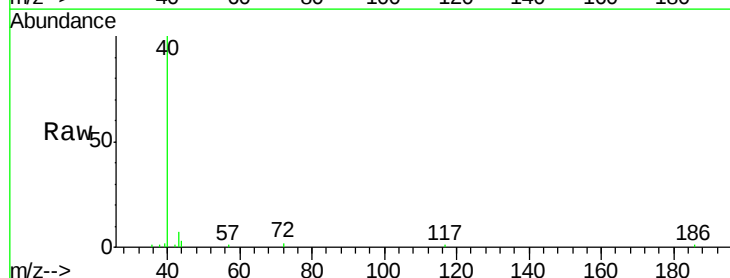
Instrument :
MSVOA_N
ClientSampled :
S4B(10)

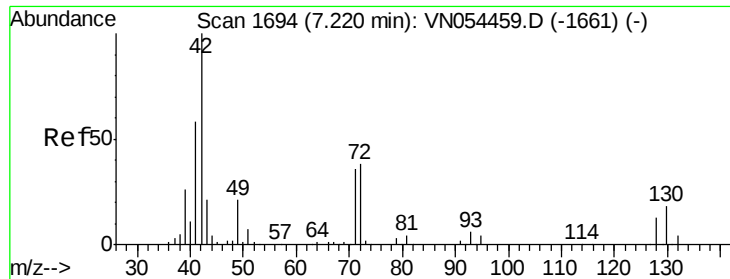
Tot Ion: 84 Resp: 14009
Ion Ratio Lower Upper
84 100
49 118.7 89.7 134.5
51 44.6 28.2 42.4#
86 65.9 50.8 76.2



#25
2-Butanone
Concen: 1.230 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. -0.00 min
Lab File: VN054674.D
Acq: 25 Mar 2019 15:52

Tgt Ion: 43 Resp: 3258
Ion Ratio Lower Upper
43 100
72 26.1 23.0 34.6





#29

Tetrahydrofuran

Concen: 0.848 ug/l

RT: 7.24 min Scan# 1700

Delta R.T. 0.02 min

Lab File: VN054674.D

Acq: 25 Mar 2019 15:52

Instrument :

MSVOA_N

ClientSampleId :

S4B(10)

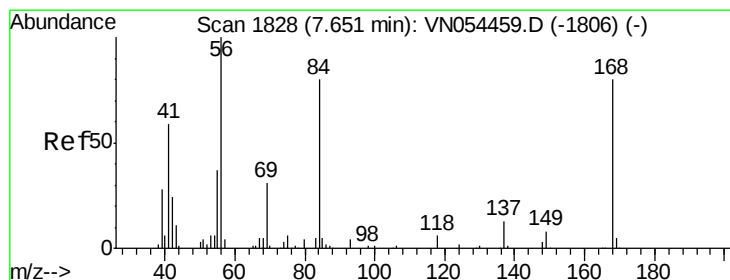
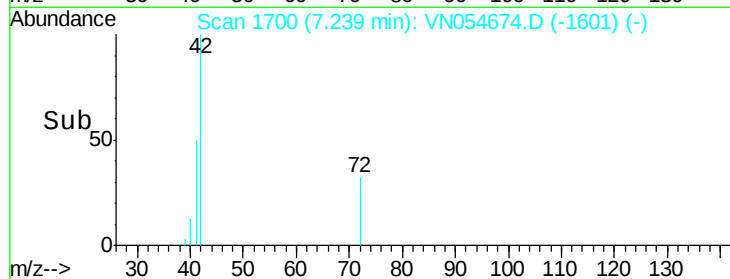
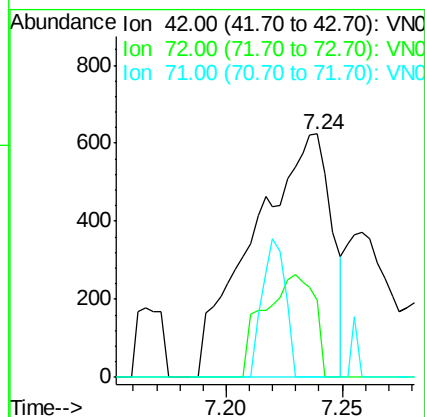
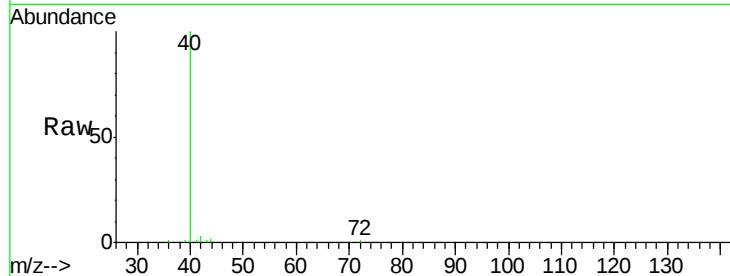
Tot Ion: 42 Resp: 1458

Ion Ratio Lower Upper

42 100

72 27.4 37.8 56.6#

71 17.1 36.2 54.2#



#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN054674.D

Acq: 25 Mar 2019 15:52

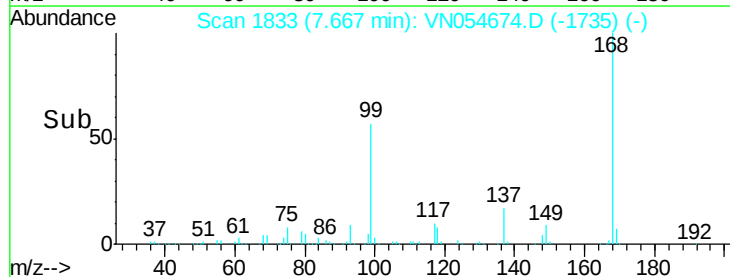
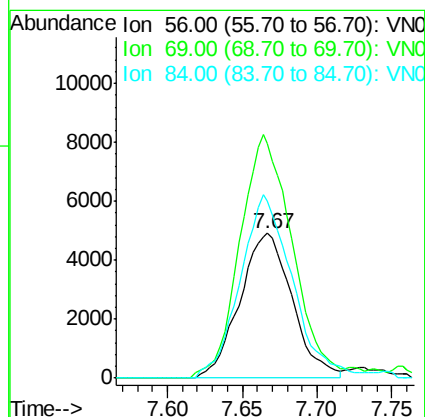
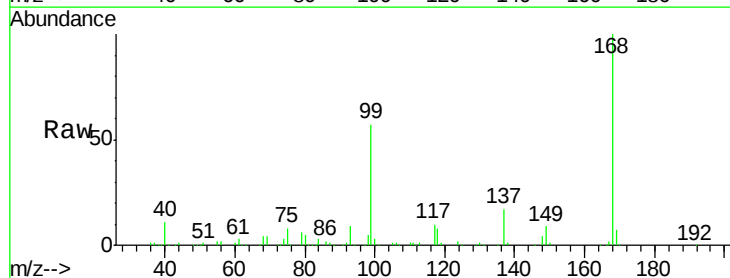
Tgt Ion: 56 Resp: 11988

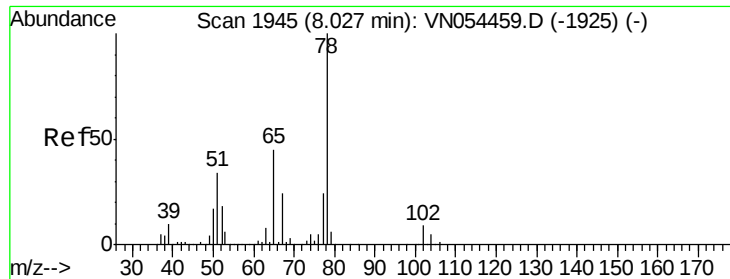
Ion Ratio Lower Upper

56 100

69 162.1 27.8 41.6#

84 122.3 74.6 111.8#

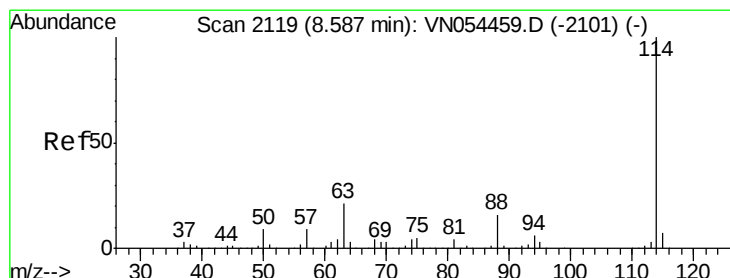
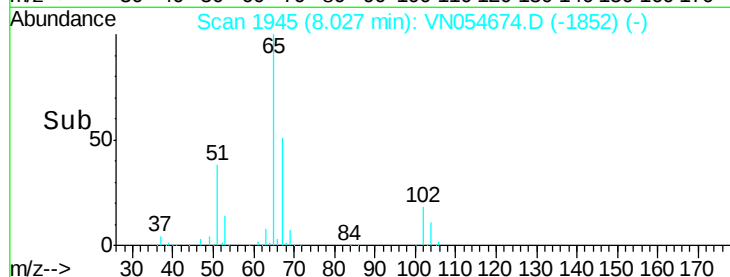
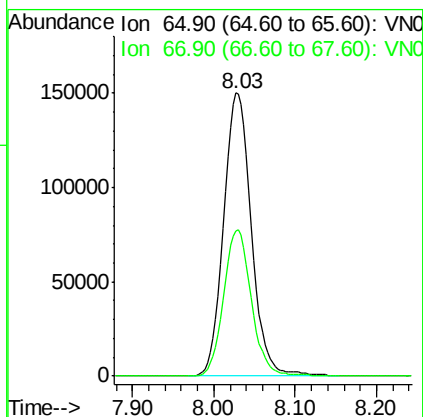
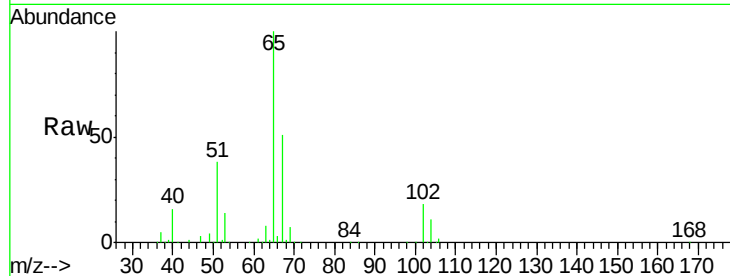




#33
 1,2-Dichloroethane-d4
 Concen: 52.475 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054674.D
 Acq: 25 Mar 2019 15:52

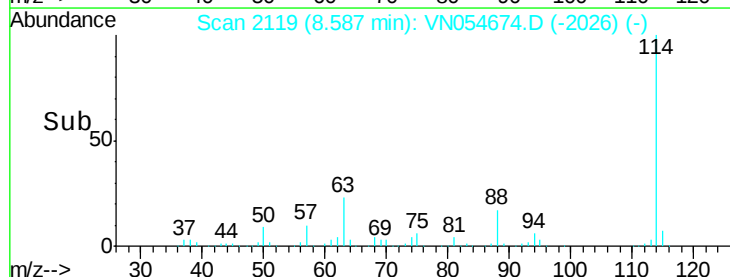
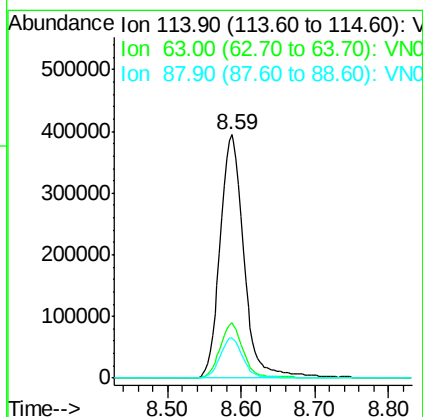
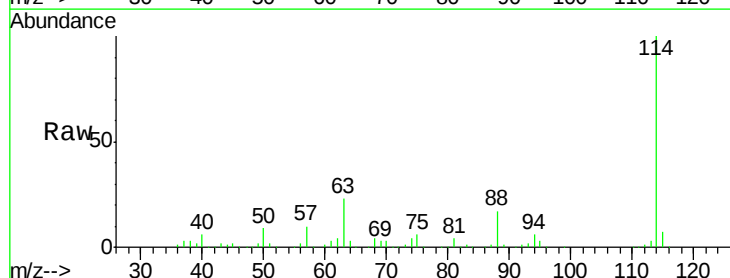
Instrument :
 MSVOA_N
 ClientSampleId :
 S4B(10)

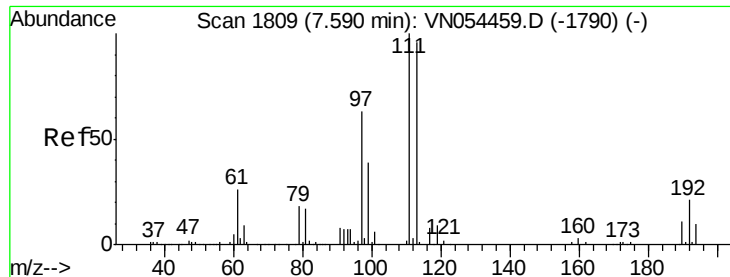
Tot Ion: 65 Resp: 360998
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054674.D
 Acq: 25 Mar 2019 15:52

Tgt Ion: 114 Resp: 888128
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 35.2
 88 16.7 0.0 30.2

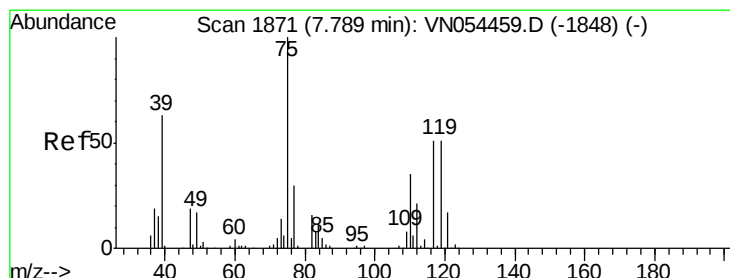
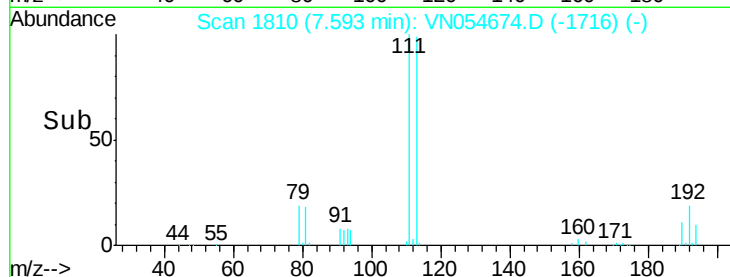
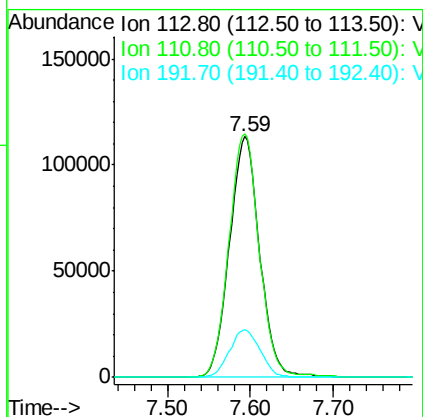
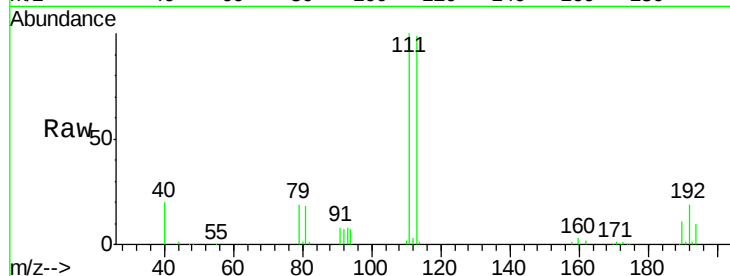




#35
 Dibromofluoromethane
 Concen: 50.218 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054674.D
 Acq: 25 Mar 2019 15:52

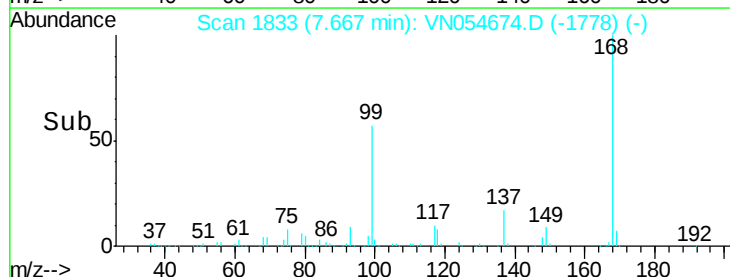
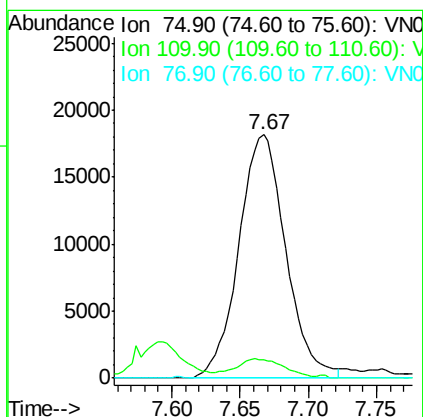
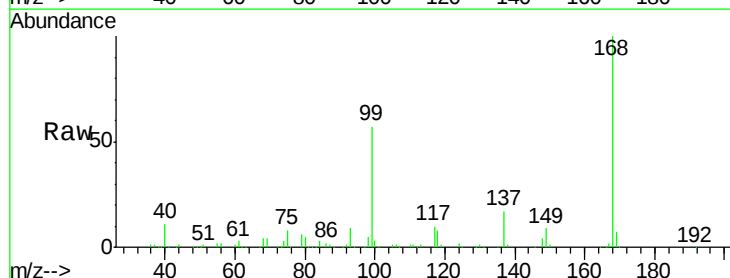
Instrument :
 MSVOA_N
 ClientSampleId :
 S4B(10)

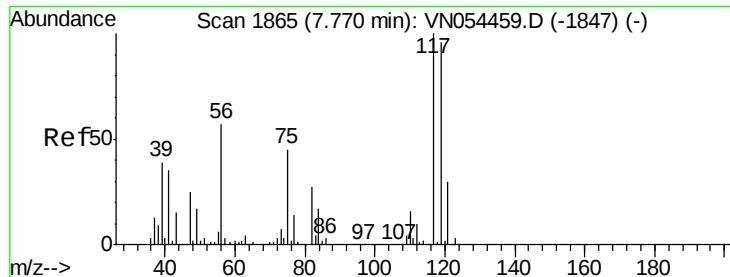
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.7	82.2	123.4
192	20.3	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 5.224 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054674.D
 Acq: 25 Mar 2019 15:52

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	19.1	57.5#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.350 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.10 min

Lab File: VN054674.D

Acq: 25 Mar 2019 15:52

Instrument :

MSVOA_N

ClientSampleId :

S4B(10)

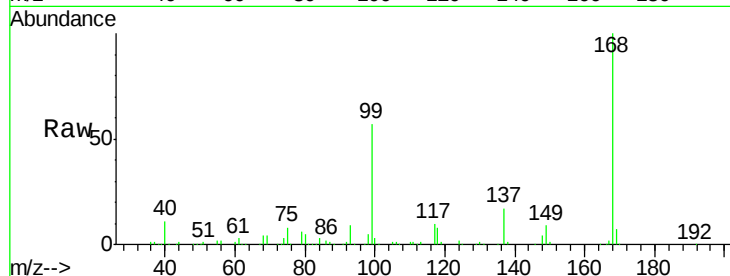
Tot Ion:117 Resp: 51244

Ion Ratio Lower Upper

117 100

119 5.4 76.3 114.5#

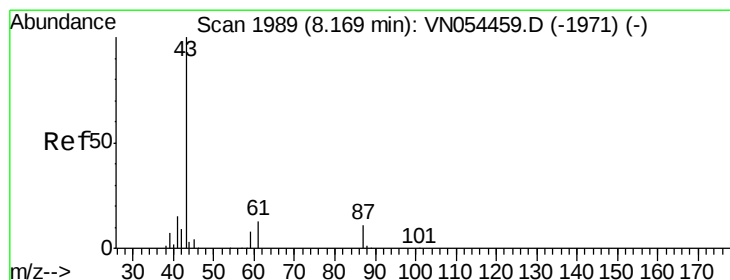
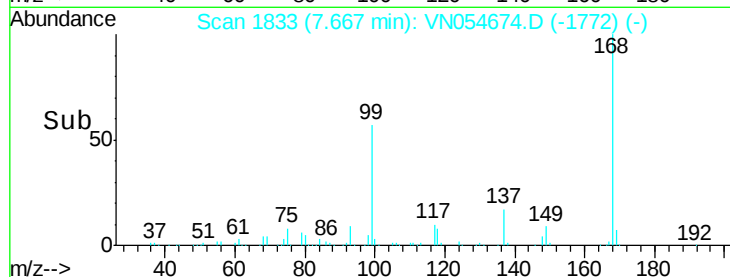
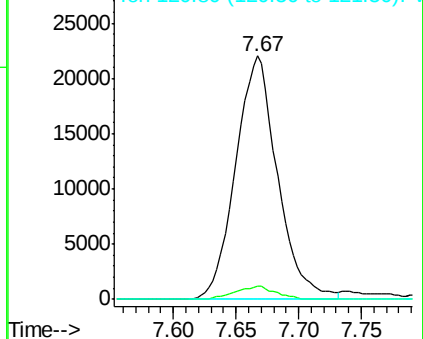
121 0.0 24.6 36.8#



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



#43

Isopropyl Acetate

Concen: 1.782 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. -0.00 min

Lab File: VN054674.D

Acq: 25 Mar 2019 15:52

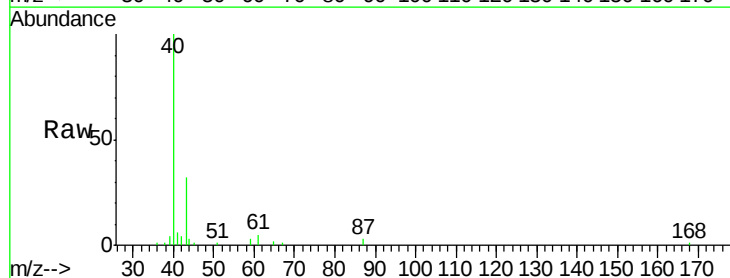
Tgt Ion: 43 Resp: 17773

Ion Ratio Lower Upper

43 100

61 17.2 15.8 23.8

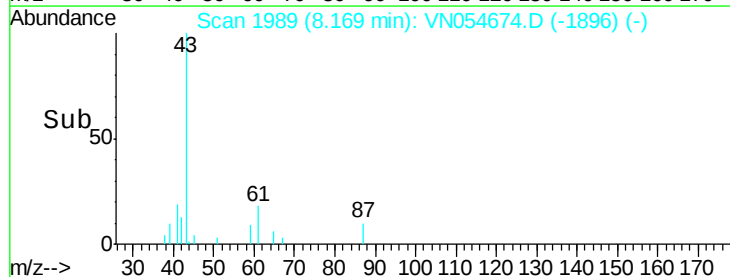
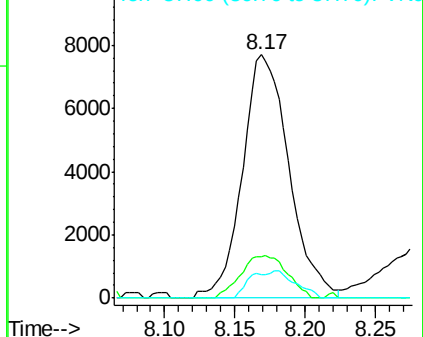
87 3.6 12.0 18.0#

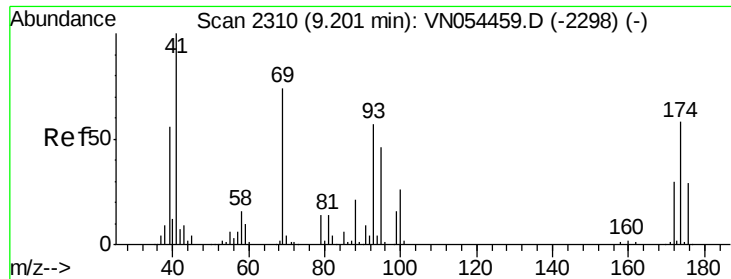


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

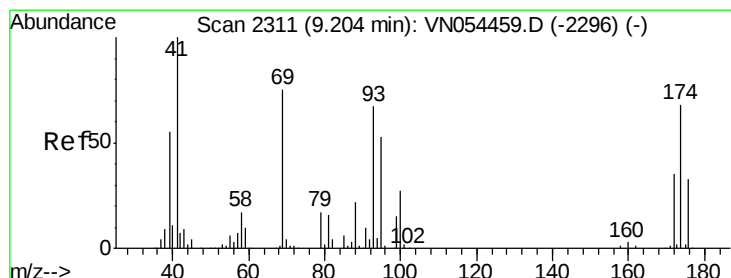
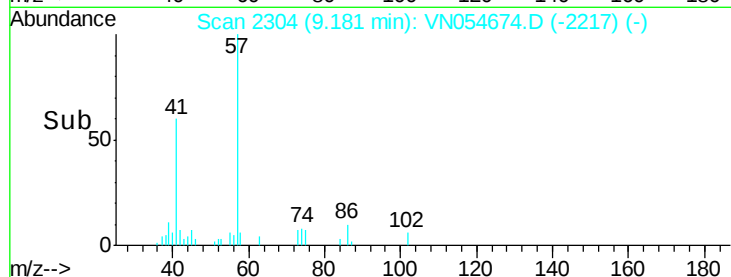
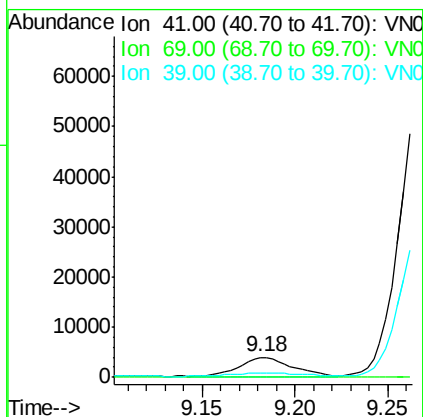
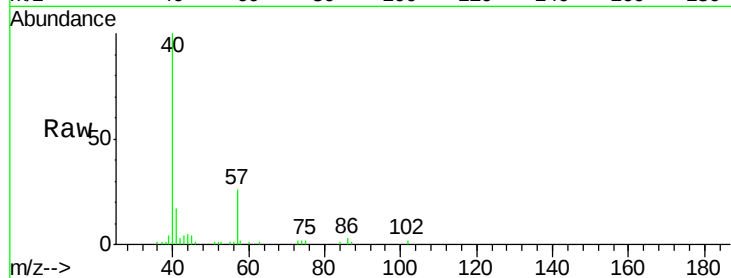




#48
Methvl methacrylate
Concen: 1.335 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN054674.D
Acq: 25 Mar 2019 15:52

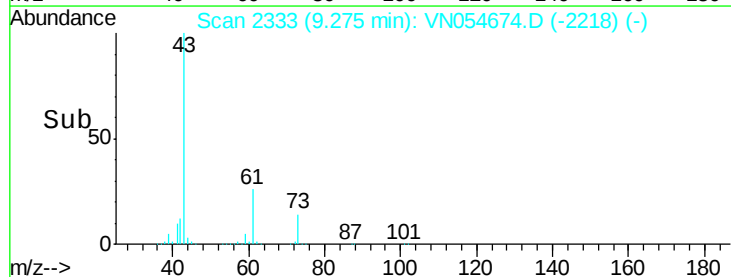
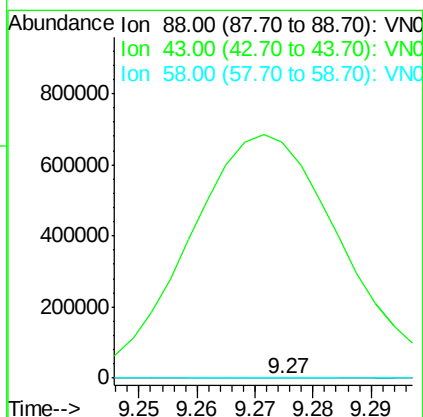
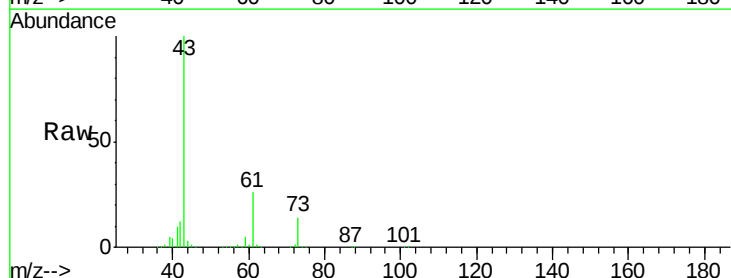
Instrument :
MSVOA_N
ClientSampleId :
S4B(10)

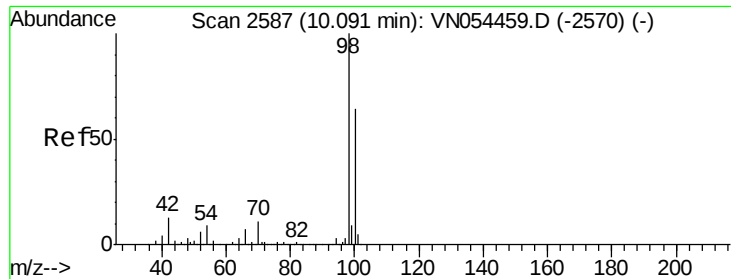
Tot Ion: 41 Resp: 7228
Ion Ratio Lower Upper
41 100
69 0.0 72.6 108.8#
39 28.0 47.5 71.3#



#49
1,4-Dioxane
Concen: 2.759 ug/l
RT: 9.27 min Scan# 2333
Delta R.T. 0.07 min
Lab File: VN054674.D
Acq: 25 Mar 2019 15:52

Tgt Ion: 88 Resp: 167
Ion Ratio Lower Upper
88 100
43 801780.8 24.1 36.1#
58 3410.2 50.8 76.2#





#50

Toluene-d8

Concen: 50.049 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054674.D

Acq: 25 Mar 2019 15:52

Instrument :

MSVOA_N

ClientSampled :

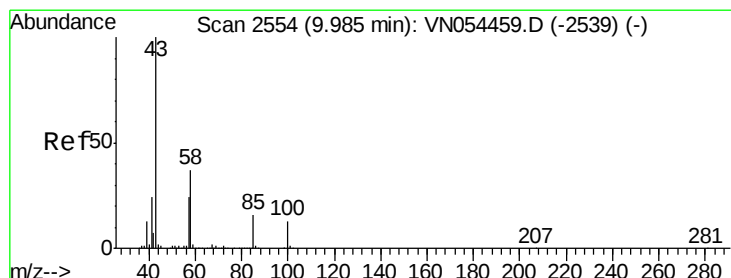
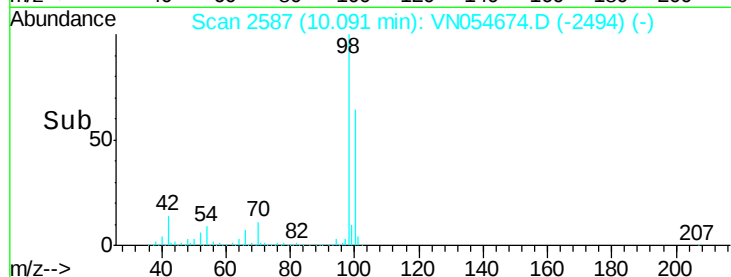
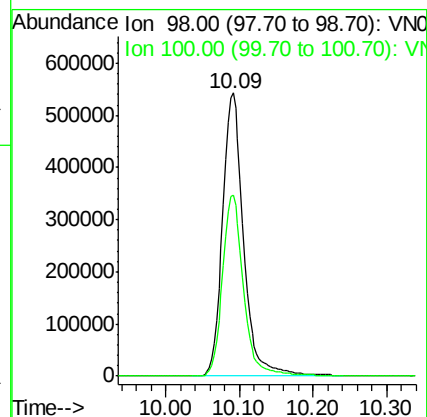
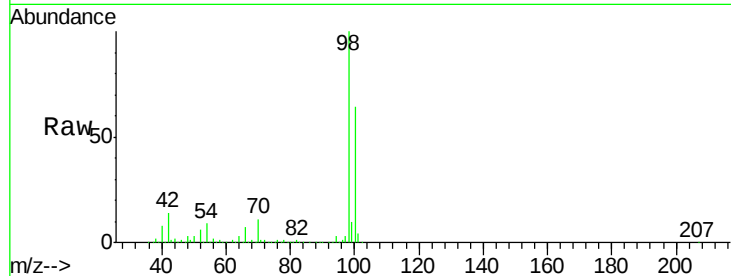
S4B(10)

Tot Ion: 98 Resp: 1076559

Ion Ratio Lower Upper

98 100

100 64.1 51.2 76.8



#51

4-Methyl-2-Pentanone

Concen: 1.503 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN054674.D

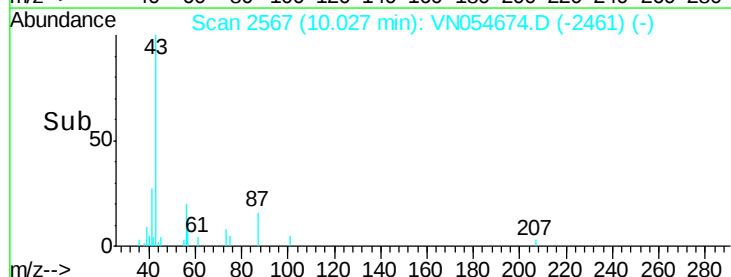
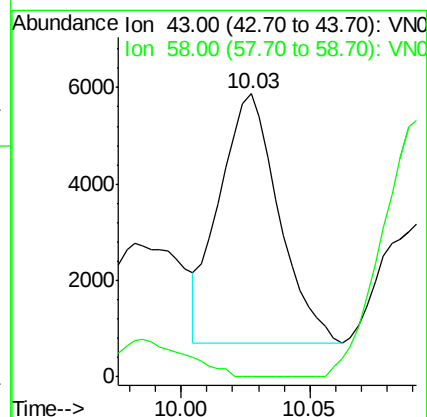
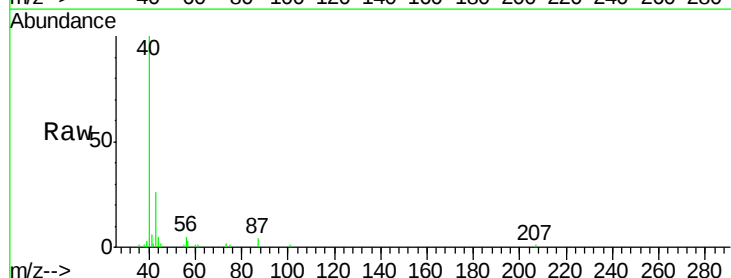
Acq: 25 Mar 2019 15:52

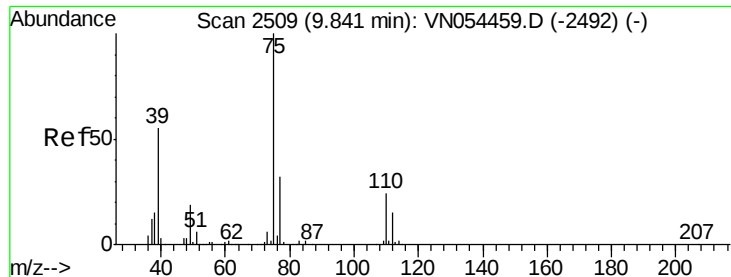
Tgt Ion: 43 Resp: 8309

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.6#





#54

cis-1,3-Dichloropropene

Concen: 5.266 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054674.D

Acq: 25 Mar 2019 15:52

Instrument :

MSVOA_N

ClientSampleId :

S4B(10)

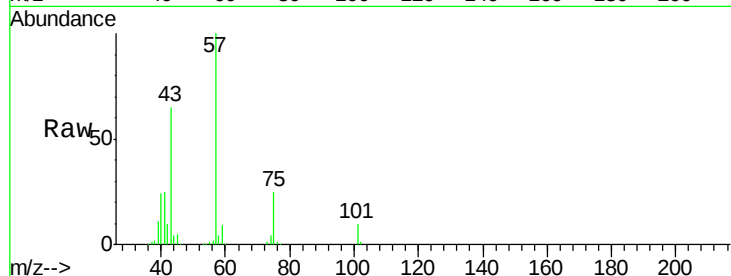
Tot Ion: 75 Resp: 47671

Ion Ratio Lower Upper

75 100

77 0.7 25.4 38.0#

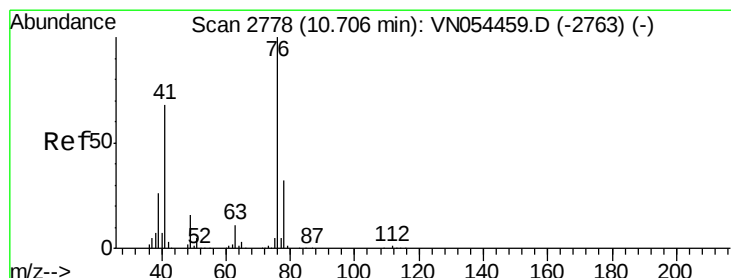
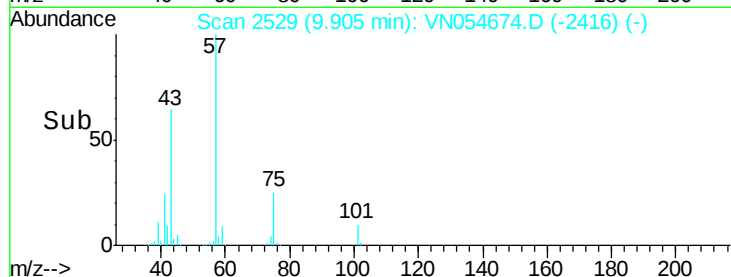
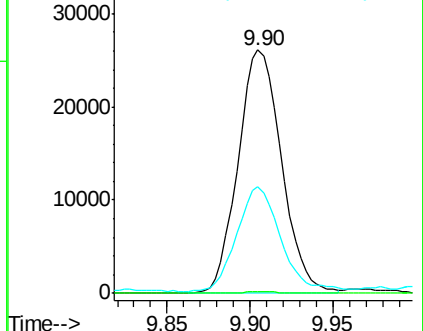
39 42.9 37.2 55.8



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.013 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN054674.D

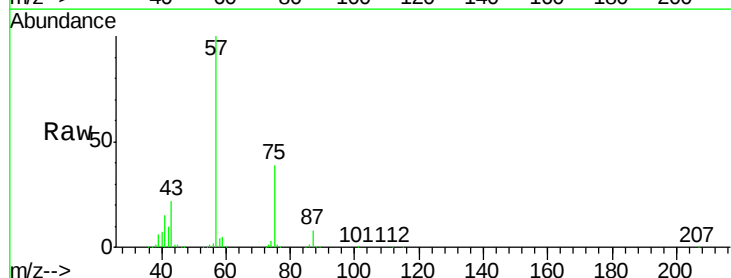
Acq: 25 Mar 2019 15:52

Tgt Ion: 76 Resp: 9247

Ion Ratio Lower Upper

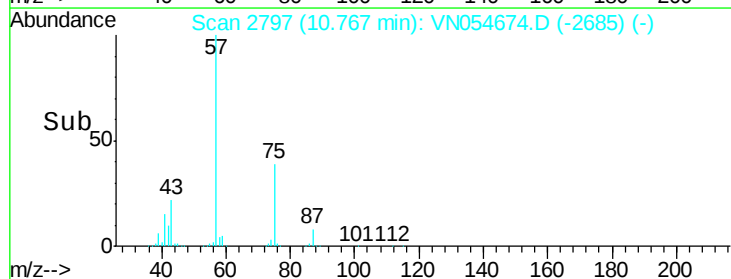
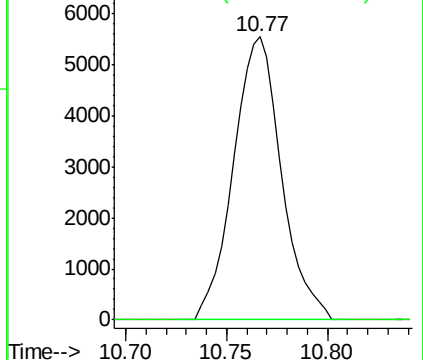
76 100

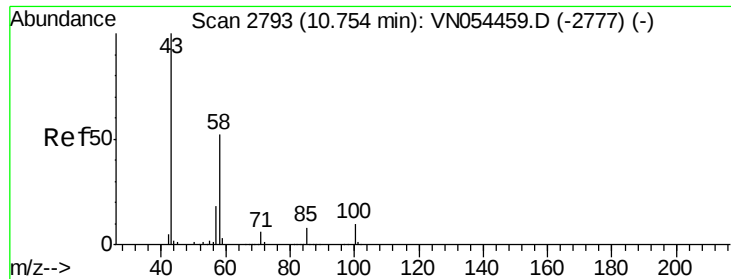
78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

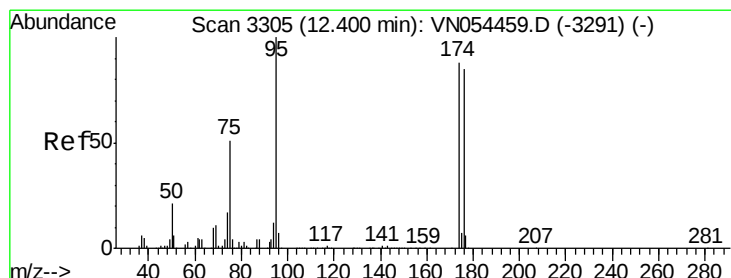
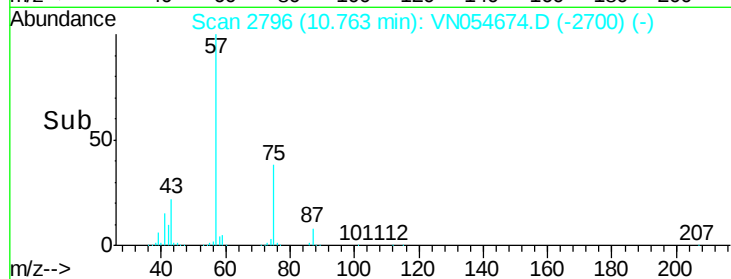
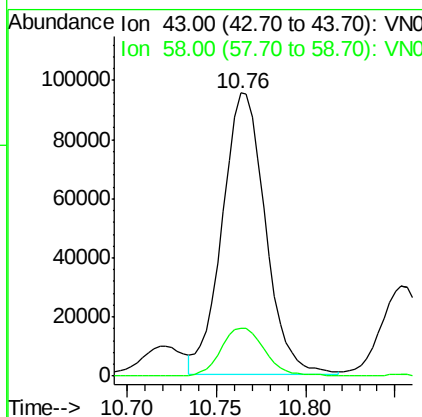
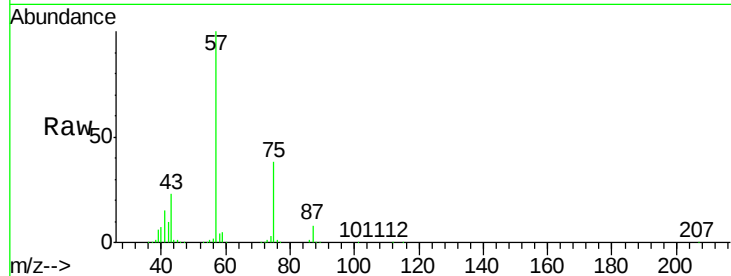




#59
2-Hexanone
Concen: 44.517 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN054674.D
Acq: 25 Mar 2019 15:52

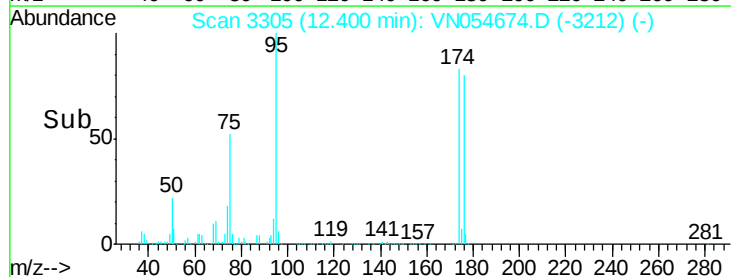
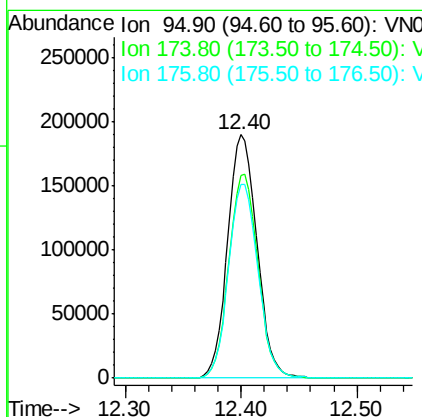
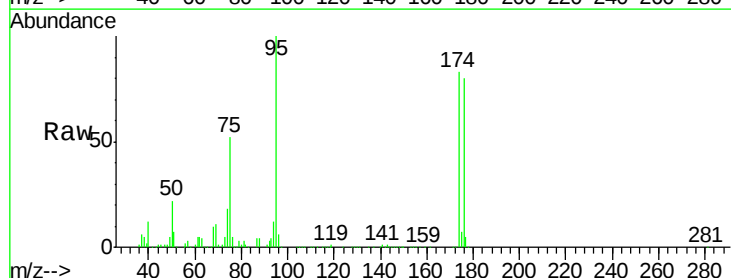
Instrument :
MSVOA_N
ClientSampled :
S4B(10)

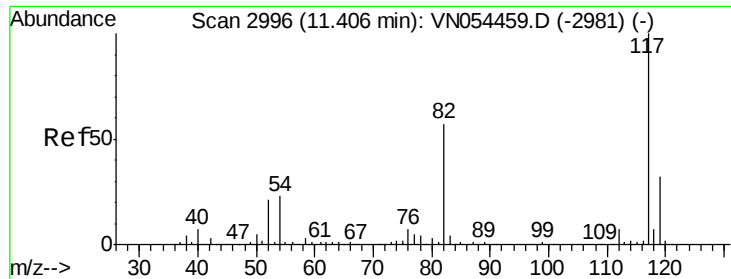
Tot Ion: 43 Resp: 160744
Ion Ratio Lower Upper
43 100
58 17.4 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 45.483 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN054674.D
Acq: 25 Mar 2019 15:52

Tgt Ion: 95 Resp: 332919
Ion Ratio Lower Upper
95 100
174 83.1 0.0 191.0
176 80.1 0.0 187.4

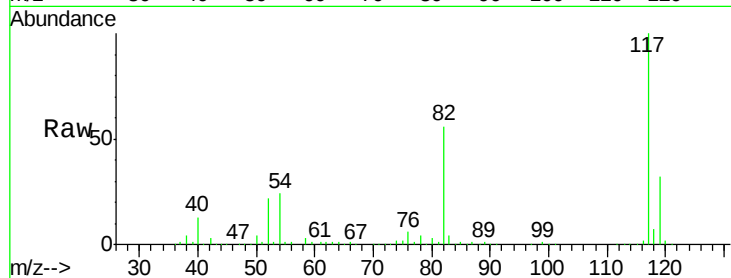




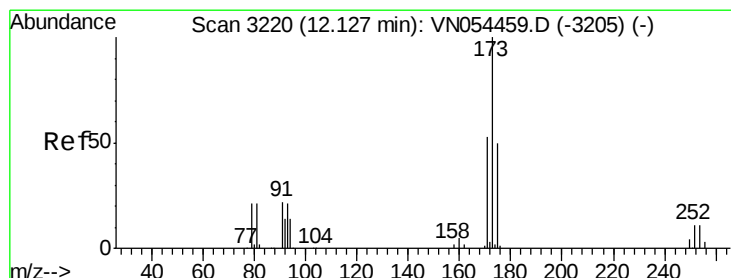
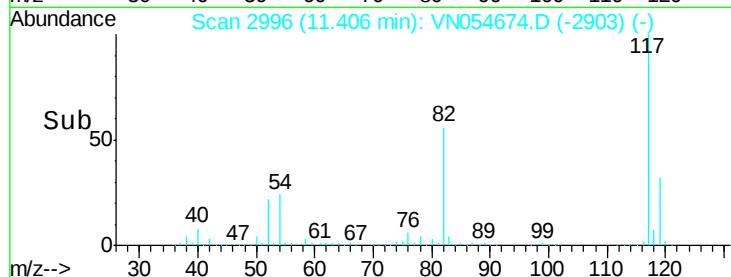
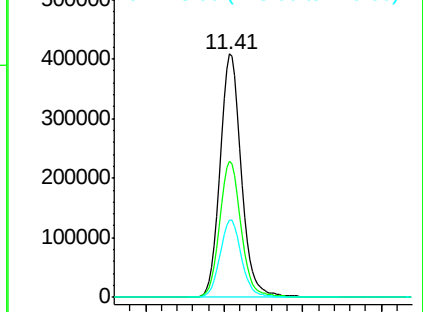
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054674.D
Acq: 25 Mar 2019 15:52

Instrument :
MSVOA_N
ClientSampled :
S4B(10)

Tot Ion:117 Resp: 761159
Ion Ratio Lower Upper
117 100
82 55.9 40.0 60.0
119 31.7 25.8 38.6

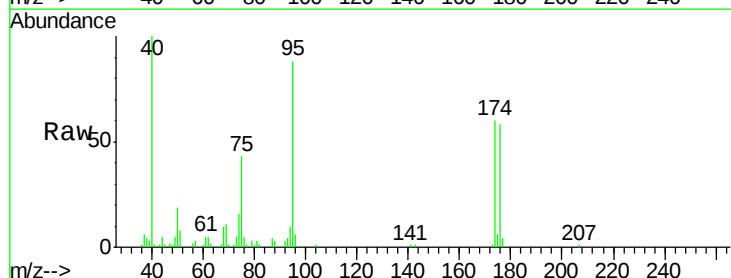


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

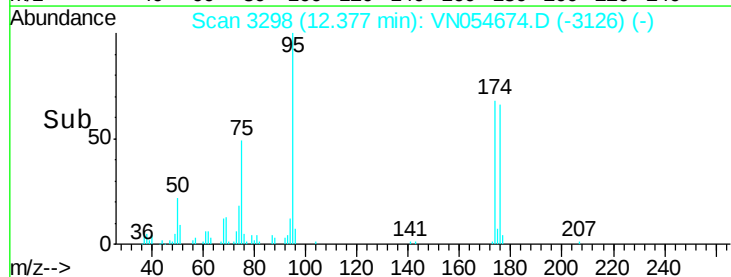
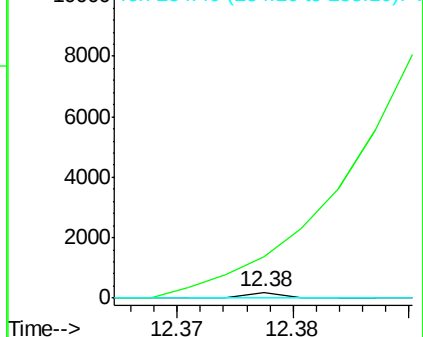


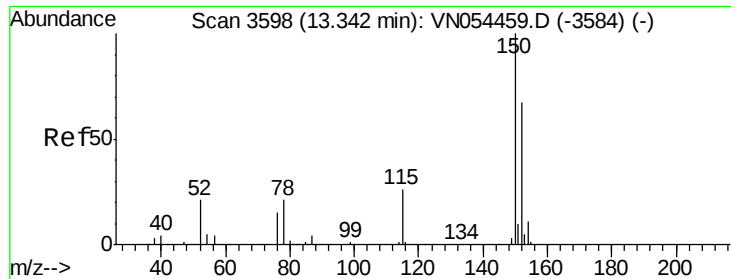
#71
Bromoform
Concen: 2.230 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.25 min
Lab File: VN054674.D
Acq: 25 Mar 2019 15:52

Tgt Ion:173 Resp: 38
Ion Ratio Lower Upper
173 100
175 0.0 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: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN054674.D

Acq: 25 Mar 2019 15:52

Instrument :

MSVOA_N

ClientSampleId :

S4B(10)

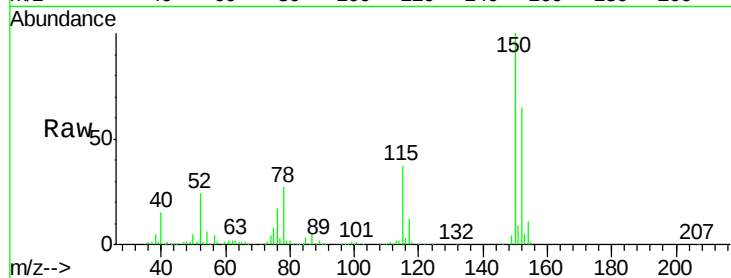
Tot Ion:152 Resp: 276788

Ion Ratio Lower Upper

152 100

115 57.2 27.2 81.6

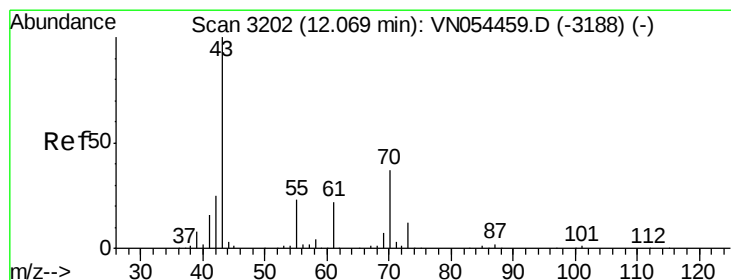
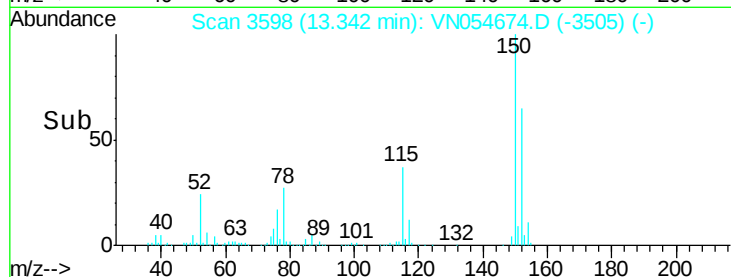
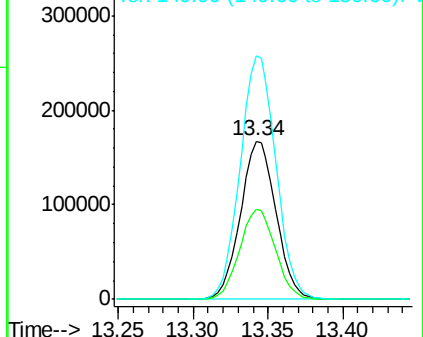
150 155.3 0.0 349.2



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



#74

N-ethyl acetate

Concen: 2.340 ug/l

RT: 11.88 min Scan# 3143

Delta R.T. -0.19 min

Lab File: VN054674.D

Acq: 25 Mar 2019 15:52

Tgt Ion: 43 Resp: 15009

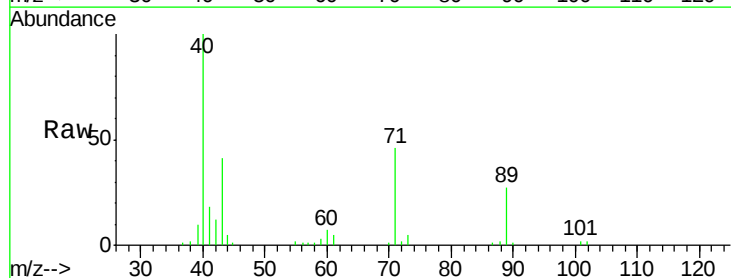
Ion Ratio Lower Upper

43 100

70 2.6 35.4 53.0#

55 4.0 19.8 29.6#

61 11.8 19.8 29.6#

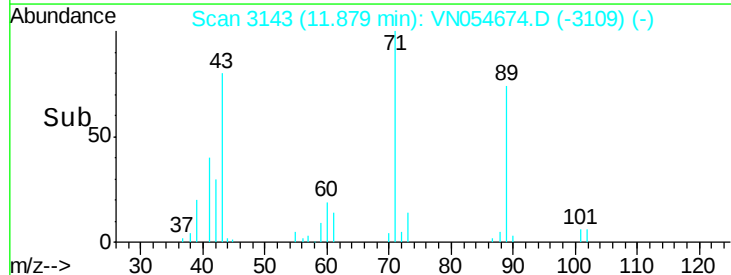
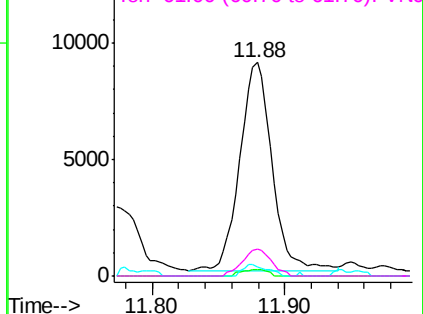


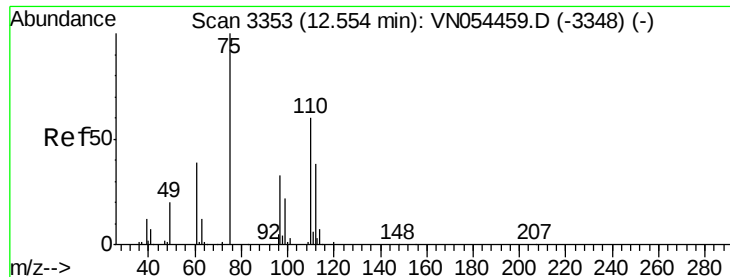
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 38.854 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054674.D

Acq: 25 Mar 2019 15:52

Instrument :

MSVOA_N

ClientSampled :

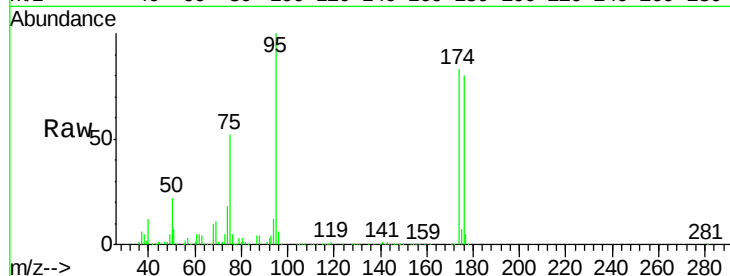
S4B(10)

Tot Ion: 75 Resp: 170653

Ion Ratio Lower Upper

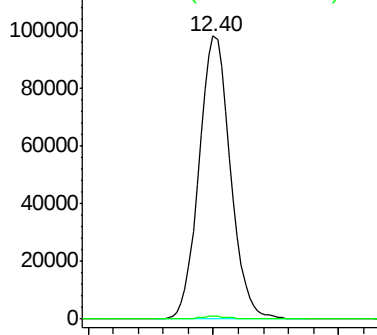
75 100

77 1.0 0.0 0.0#

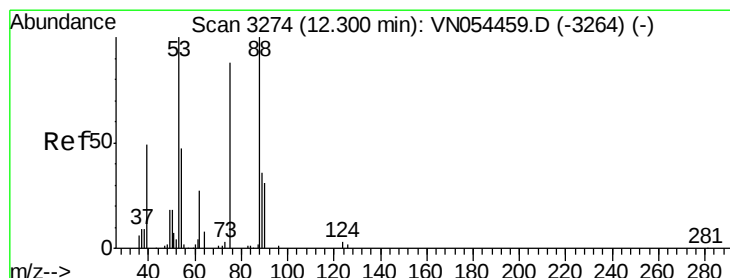
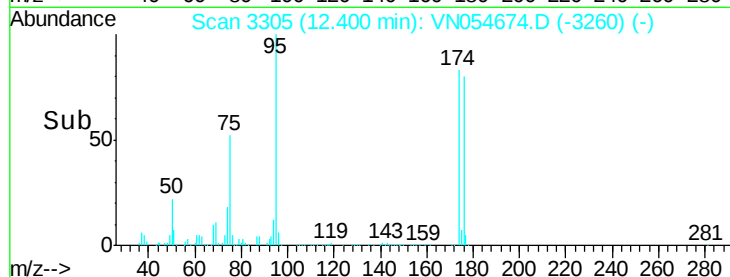


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 128.617 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054674.D

Acq: 25 Mar 2019 15:52

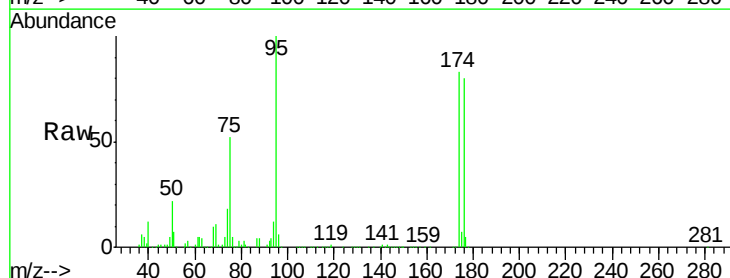
Tgt Ion: 75 Resp: 170653

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

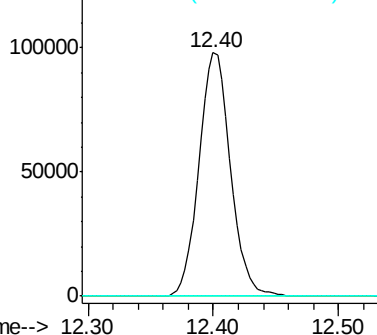
89 0.0 39.2 58.8#



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



Time--> 12.30 12.40 12.50

