

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033019\
 Data File : VN054810.D
 Acq On : 30 Mar 2019 18:39
 Operator : JC/SP
 Sample : K2138-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S6A(20)

Quant Time: Mar 30 22:42:36 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

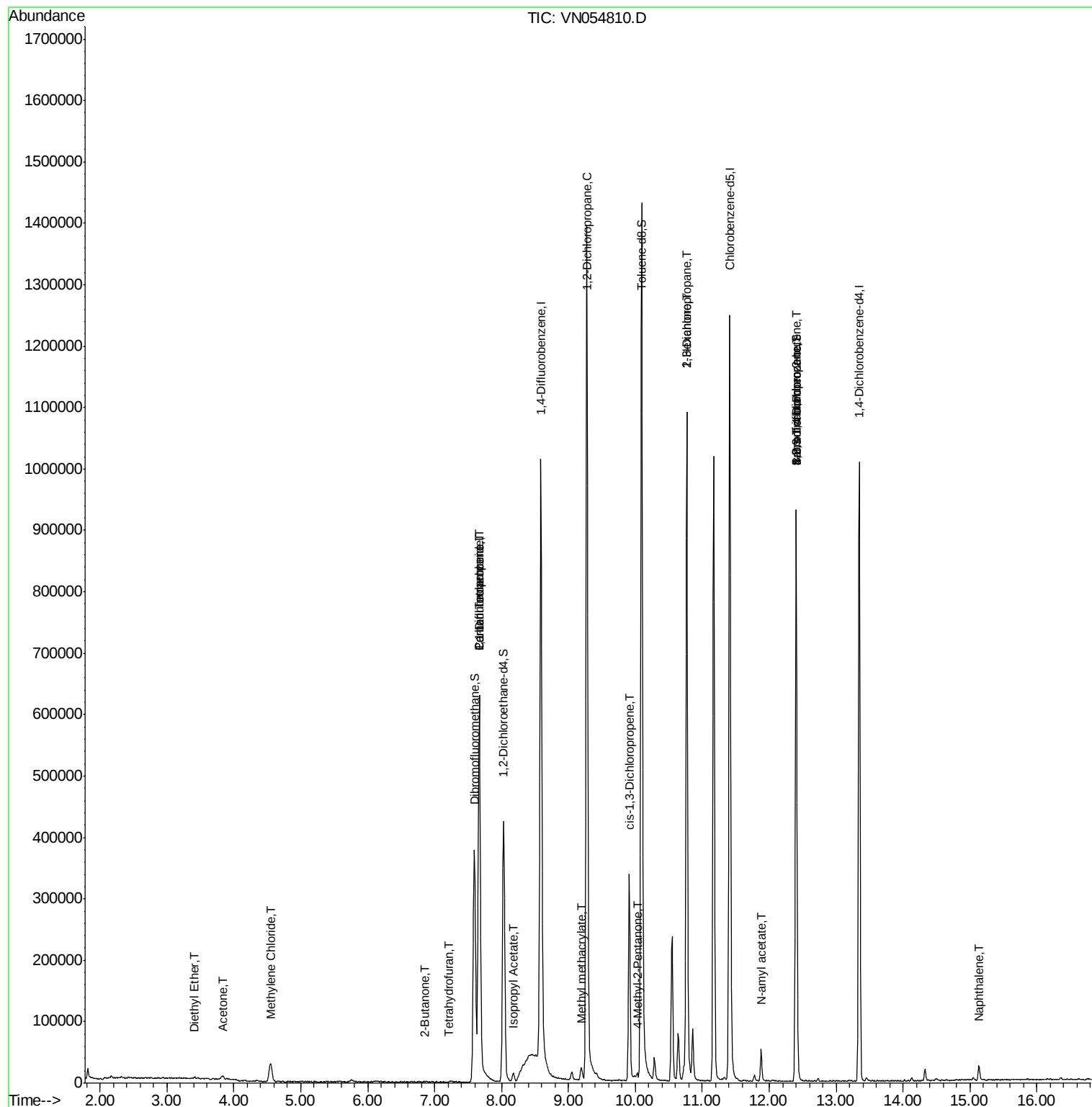
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	541981	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	881538	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	737811	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	265179	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	366105	50.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.22%	
35) Dibromofluoromethane	7.59	113	285024	48.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.00%	
50) Toluene-d8	10.09	98	1057272	48.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.78%	
62) 4-Bromofluorobenzene	12.40	95	318297	43.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.60%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.59	94	63	Below Cal	#	2
8) Diethyl Ether	3.41	74	812	0.301	ug/l	61
16) Acetone	3.83	43	8953	5.139	ug/l	91
18) Methyl Acetate	4.35	43	1848	Below Cal	#	75
20) Methylene Chloride	4.54	84	20788	3.383	ug/l	# 86
25) 2-Butanone	6.84	43	569	0.221	ug/l	# 46
29) Tetrahydrofuran	7.22	42	953	0.533	ug/l	# 42
31) Cyclohexane	7.66	56	11964	Below Cal	#	22
36) 1,1-Dichloropropene	7.67	75	39256	4.779	ug/l	# 48
38) Carbon Tetrachloride	7.66	117	50334	6.309	ug/l	# 16
43) Isopropyl Acetate	8.18	43	16950	1.732	ug/l	# 90
45) 1,2-Dichloropropane	9.28	63	1672	0.249	ug/l	# 43
48) Methyl methacrylate	9.19	41	9291	1.751	ug/l	# 11
51) 4-Methyl-2-Pentanone	10.03	43	8808	1.601	ug/l	# 36
54) cis-1,3-Dichloropropene	9.91	75	55336	6.285	ug/l	# 71
57) 1,3-Dichloropropane	10.77	76	10625	1.188	ug/l	# 43
59) 2-Hexanone	10.77	43	175878	49.927	ug/l	# 48
71) Bromoform	12.40	173	1956	0.618	ug/l	# 1
74) N-amyl acetate	11.88	43	17644	2.613	ug/l	# 50
75) 1,1,2,2-Tetrachloroethane	12.40	83	173	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	164743	35.761	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	164743	139.101	ug/l	# 11
83) tert-Butylbenzene	12.99	119	30	Below Cal	#	28
95) Naphthalene	15.13	128	19364	2.026	ug/l	# 99

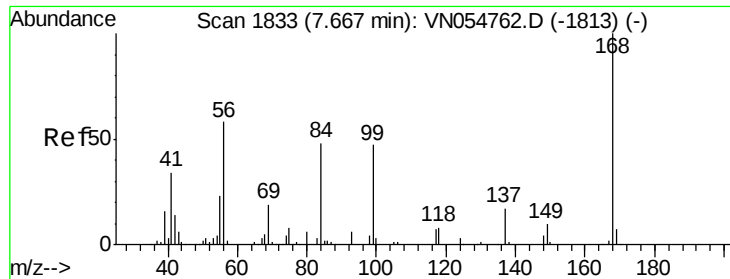
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN054810.D

Acq: 30 Mar 2019 18:39

Instrument :

MSVOA_N

ClientSampleId :

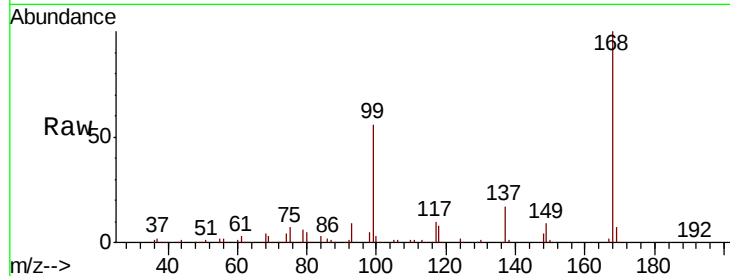
S6A(20)

Tot Ion:168 Resp: 541981

Ion Ratio Lower Upper

168 100

99 55.6 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN054810.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN054810.D (-1740) (-)

7.67

250000

200000

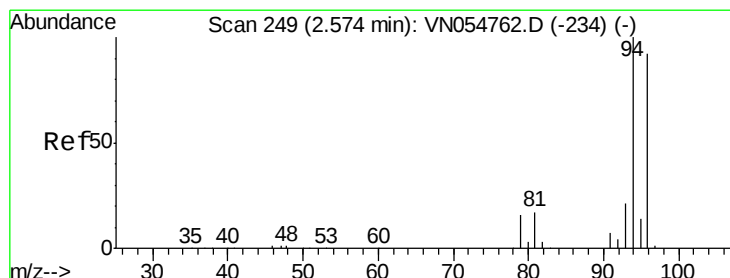
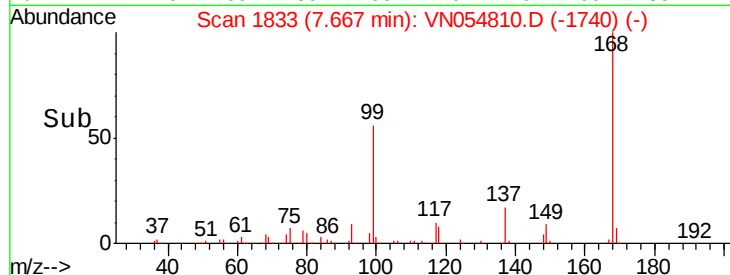
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.59 min Scan# 253

Delta R.T. 0.01 min

Lab File: VN054810.D

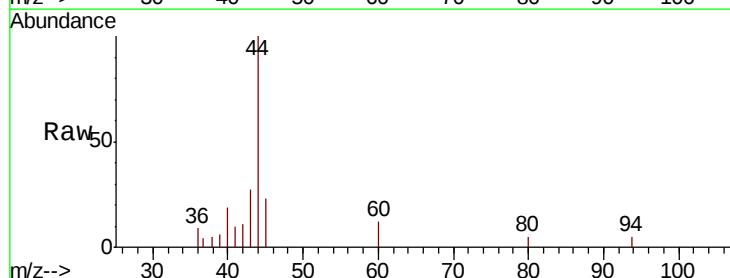
Acq: 30 Mar 2019 18:39

Tgt Ion: 94 Resp: 63

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN054810.D (-156) (-)

Ion 95.90 (95.60 to 96.60): VN054810.D (-156) (-)

2.59

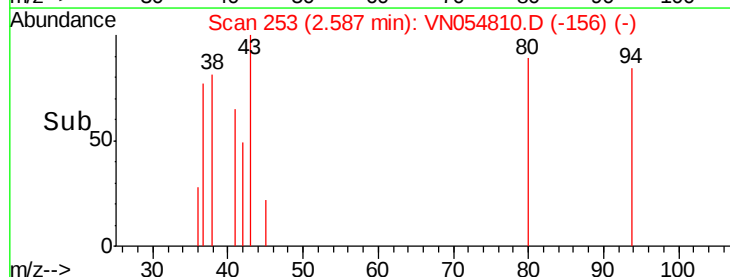
150

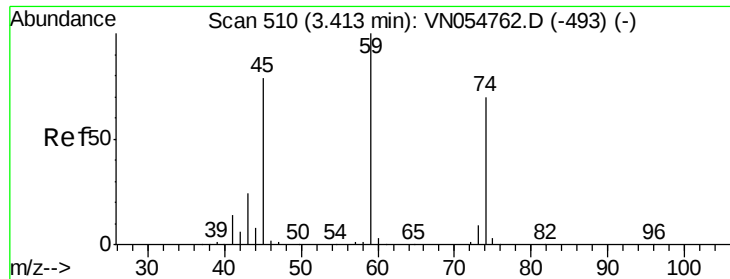
100

50

0

Time-->

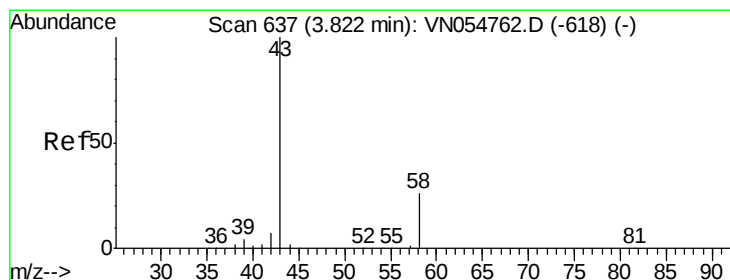
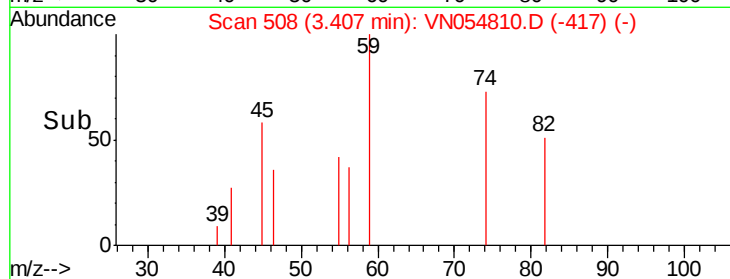
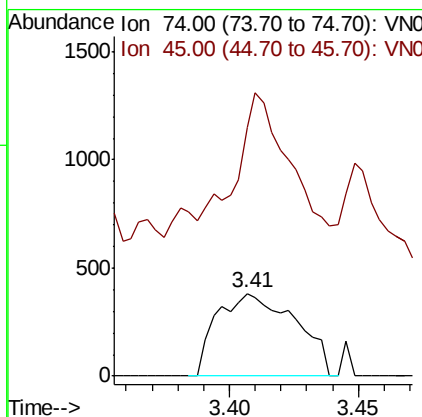
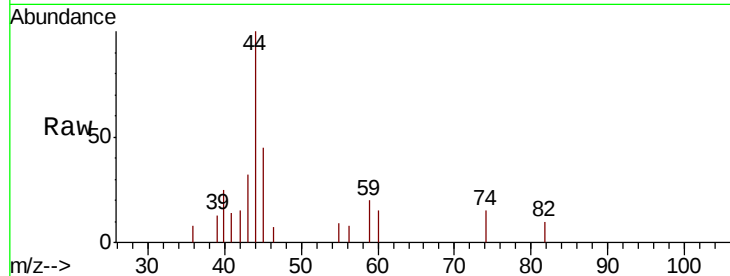




#8
Diethyl Ether
Concen: 0.301 ug/l
RT: 3.41 min Scan# 508
Delta R.T. -0.01 min
Lab File: VN054810.D
Acq: 30 Mar 2019 18:39

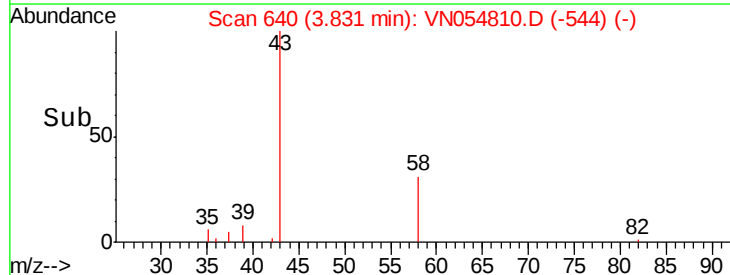
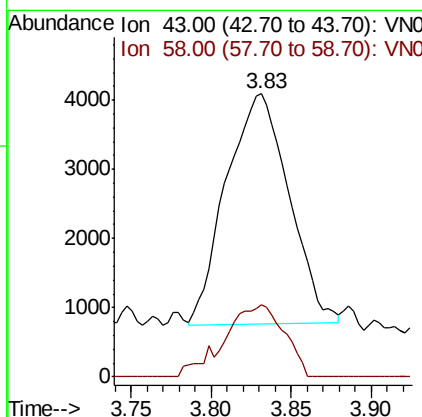
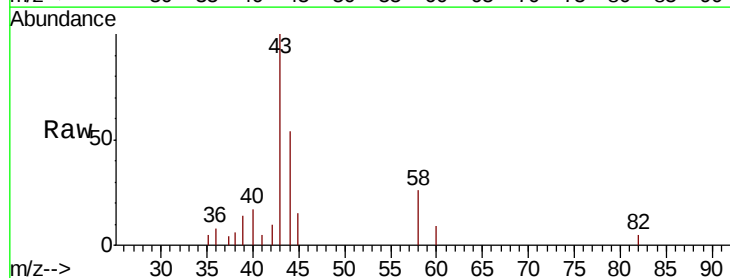
Instrument :
MSVOA_N
ClientSampleId :
S6A(20)

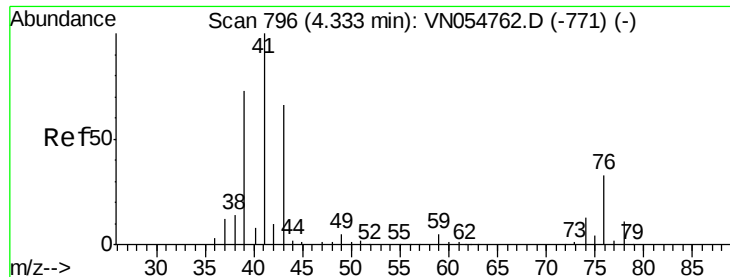
Tot Ion: 74 Resp: 812
Ion Ratio Lower Upper
74 100
45 121.9 43.1 129.4



#16
Acetone
Concen: 5.139 ug/l
RT: 3.83 min Scan# 640
Delta R.T. 0.01 min
Lab File: VN054810.D
Acq: 30 Mar 2019 18:39

Tgt Ion: 43 Resp: 8953
Ion Ratio Lower Upper
43 100
58 31.7 29.9 44.9

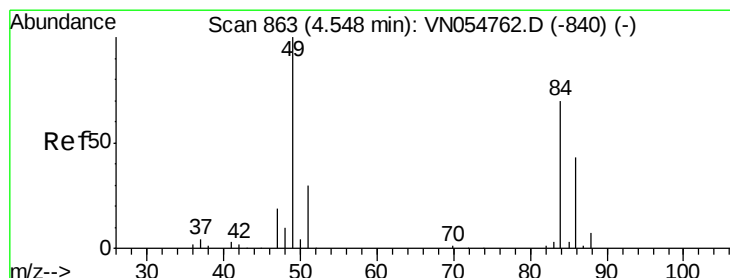
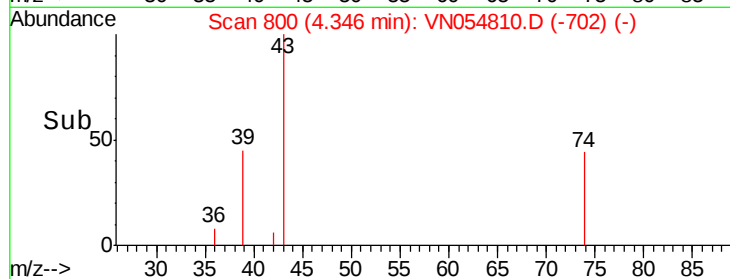
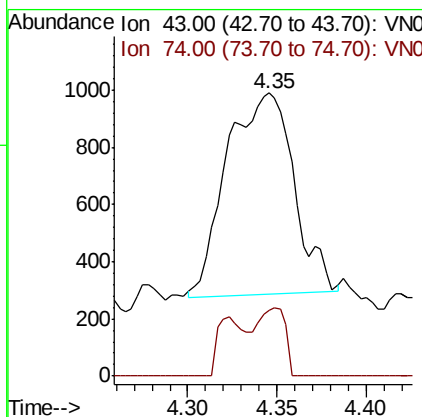
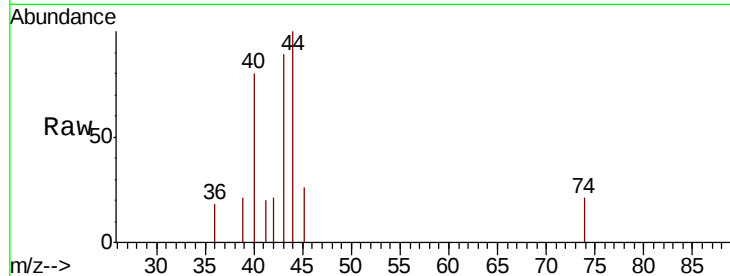




#18
Methvl Acetate
Concen: Below Cal
RT: 4.35 min Scan# 800
Delta R.T. 0.01 min
Lab File: VN054810.D
Acq: 30 Mar 2019 18:39

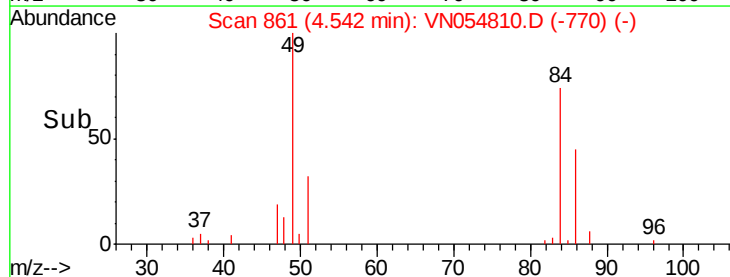
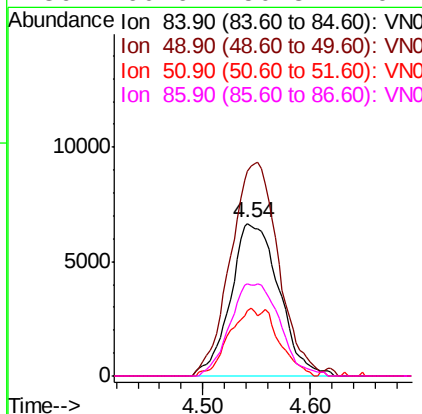
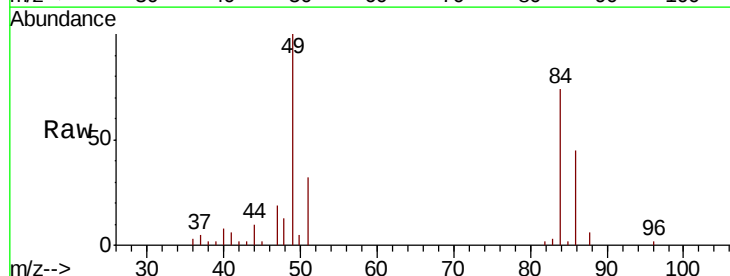
Instrument :
MSVOA_N
ClientSampled :
S6A(20)

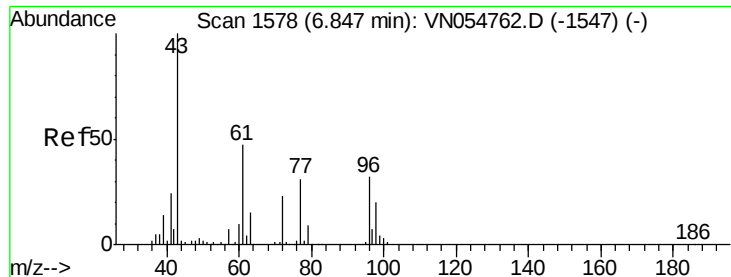
Tot Ion: 43 Resp: 1848
Ion Ratio Lower Upper
43 100
74 13.4 20.8 31.2#



#20
Methylene Chloride
Concen: 3.383 ug/l
RT: 4.54 min Scan# 861
Delta R.T. -0.01 min
Lab File: VN054810.D
Acq: 30 Mar 2019 18:39

Tgt Ion: 84 Resp: 20788
Ion Ratio Lower Upper
84 100
49 134.2 89.7 134.5
51 42.8 28.2 42.4#
86 60.6 50.8 76.2

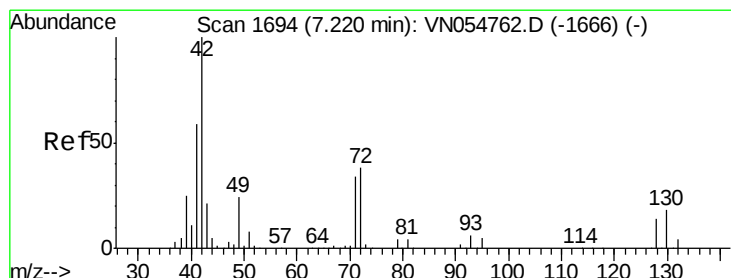
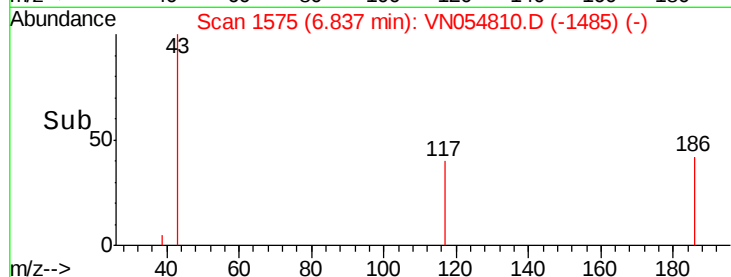
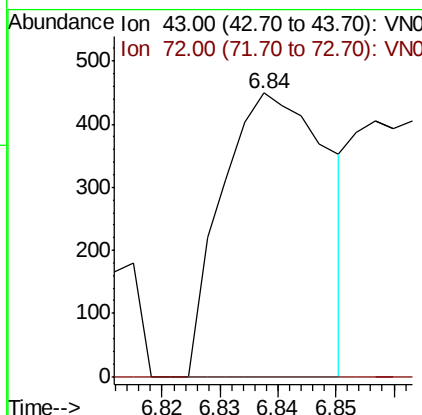
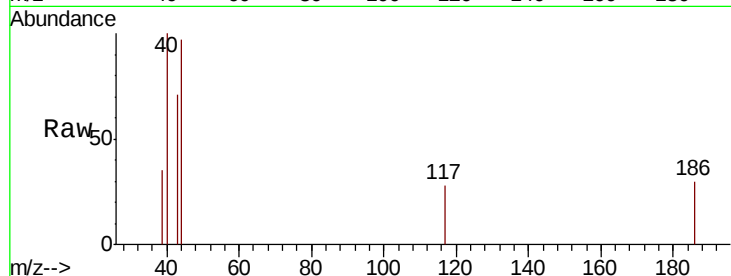




#25
2-Butanone
Concen: 0.221 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. -0.01 min
Lab File: VN054810.D
Acq: 30 Mar 2019 18:39

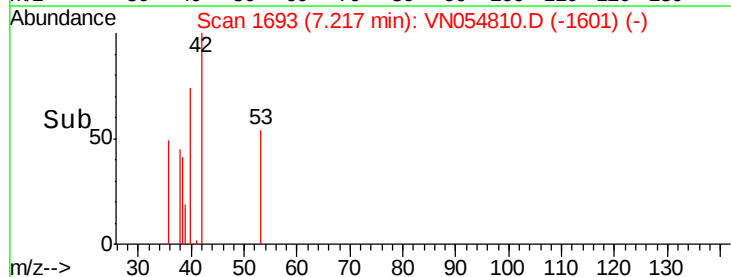
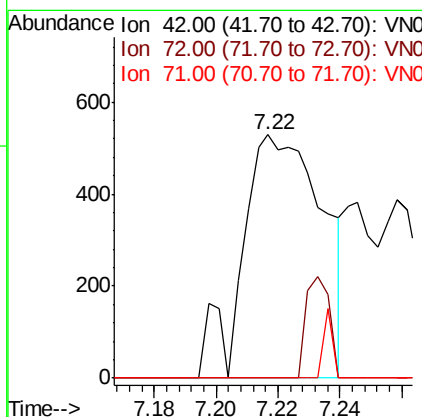
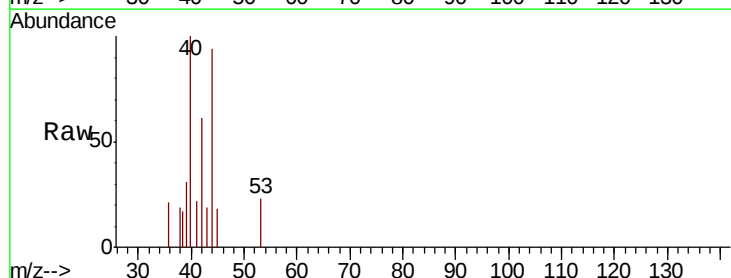
Instrument :
MSVOA_N
ClientSampled :
S6A(20)

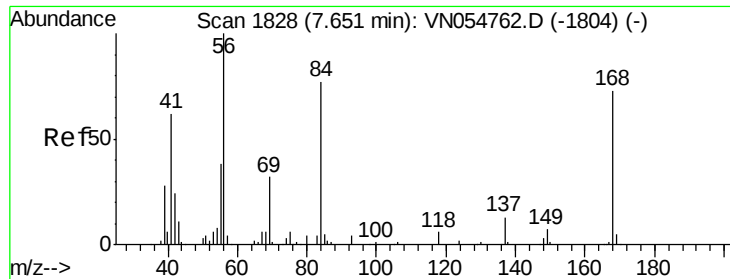
Tot Ion: 43 Resp: 569
Ion Ratio Lower Upper
43 100
72 0.0 23.0 34.6#



#29
Tetrahydrofuran
Concen: 0.533 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. -0.00 min
Lab File: VN054810.D
Acq: 30 Mar 2019 18:39

Tgt Ion: 42 Resp: 953
Ion Ratio Lower Upper
42 100
72 12.1 37.8 56.6#
71 3.0 36.2 54.2#

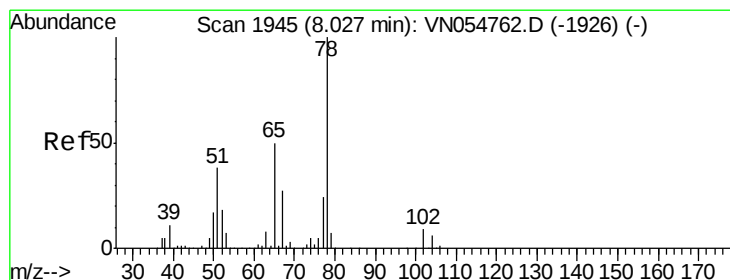
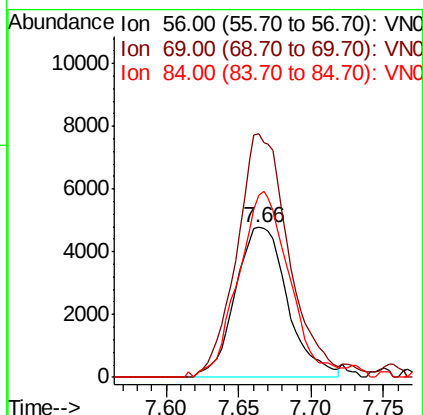
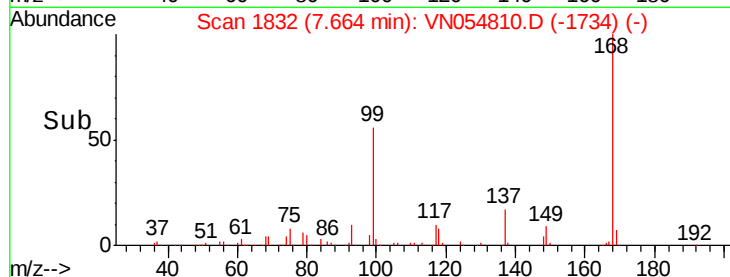
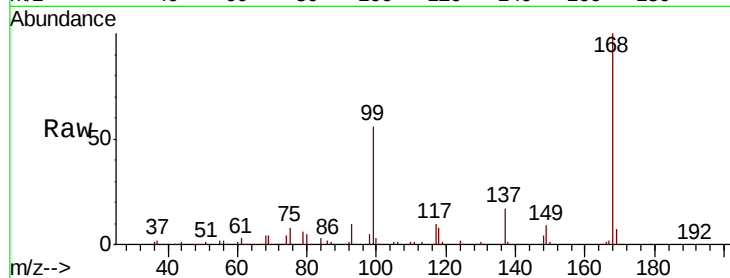




#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054810.D
Acq: 30 Mar 2019 18:39

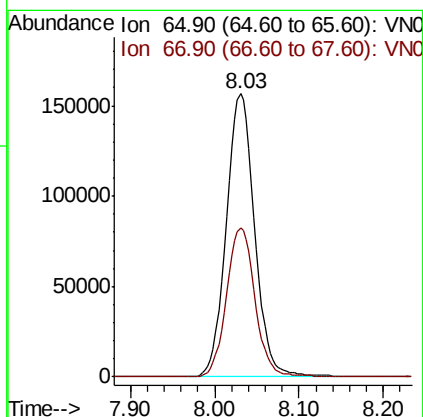
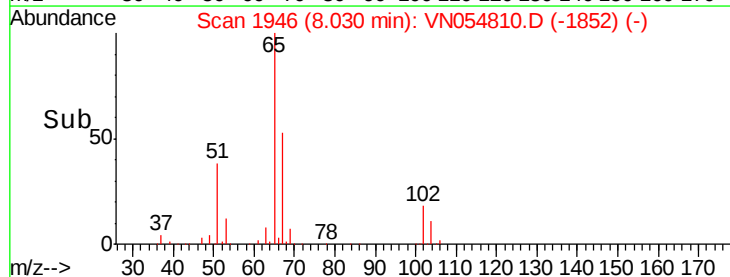
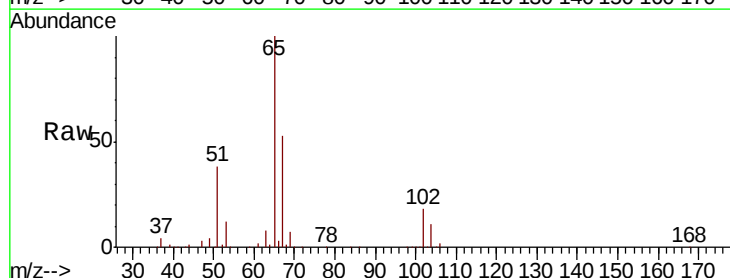
Instrument :
MSVOA_N
ClientSampled :
S6A(20)

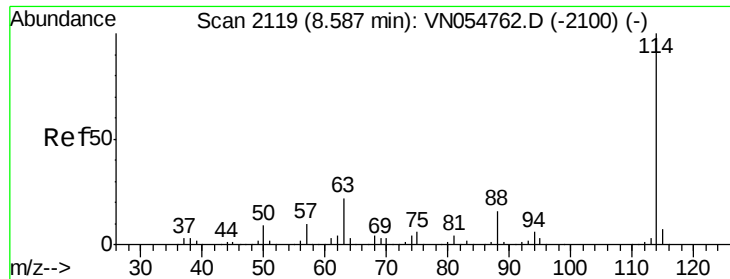
Tot Ion: 56 Resp: 11964
Ion Ratio Lower Upper
56 100
69 162.2 27.8 41.6#
84 117.7 74.6 111.8#



#33
1,2-Dichloroethane-d4
Concen: 50.110 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN054810.D
Acq: 30 Mar 2019 18:39

Tgt Ion: 65 Resp: 366105
Ion Ratio Lower Upper
65 100
67 52.9 0.0 104.6

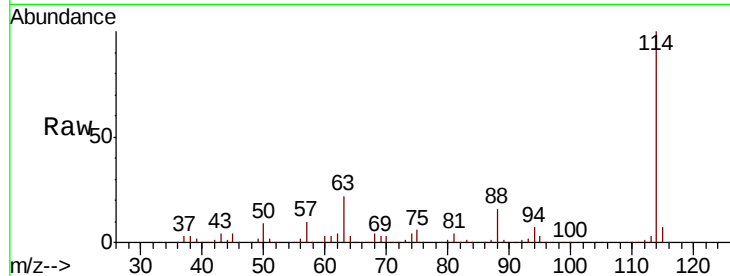




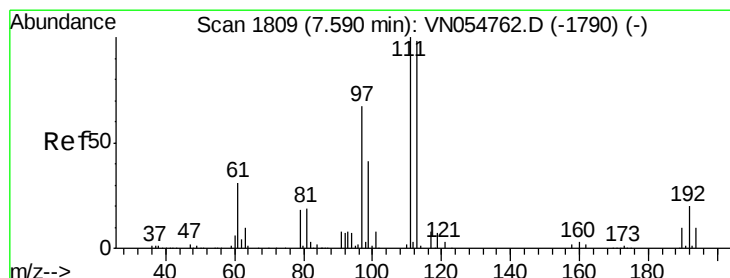
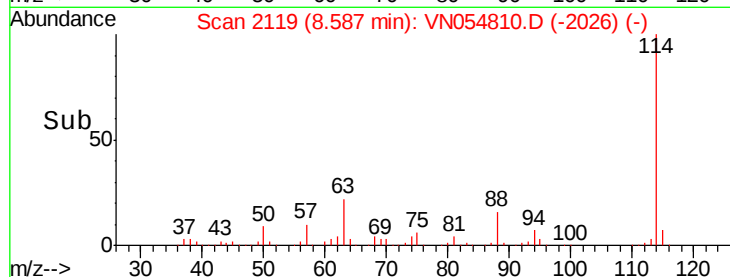
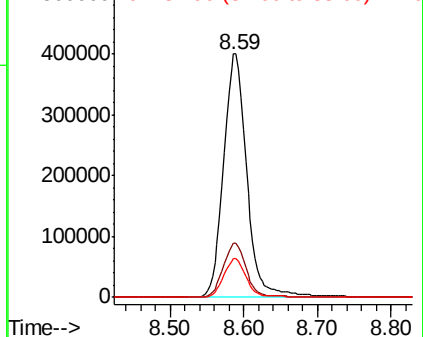
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. -0.00 min
Lab File: VN054810.D
Acq: 30 Mar 2019 18:39

Instrument :
MSVOA_N
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S6A(20)

Tot Ion:114 Resp: 881538
Ion Ratio Lower Upper
114 100
63 22.3 0.0 35.2
88 15.8 0.0 30.2

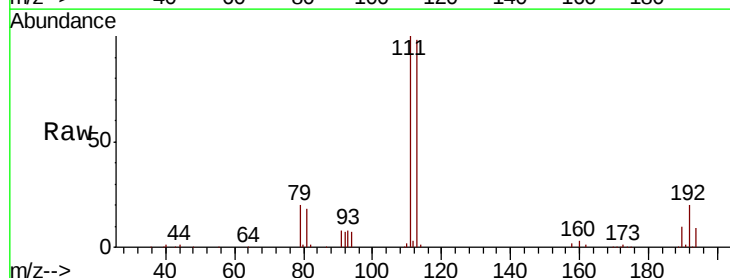


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

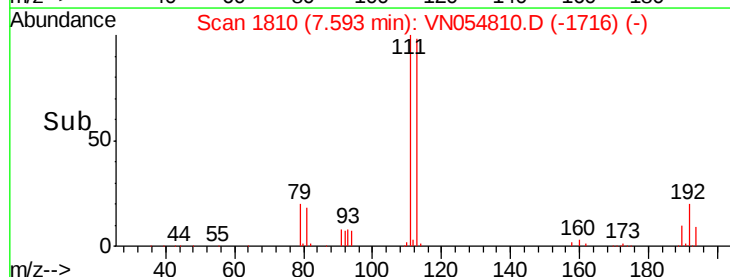
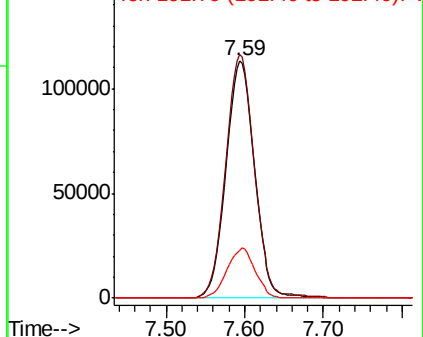


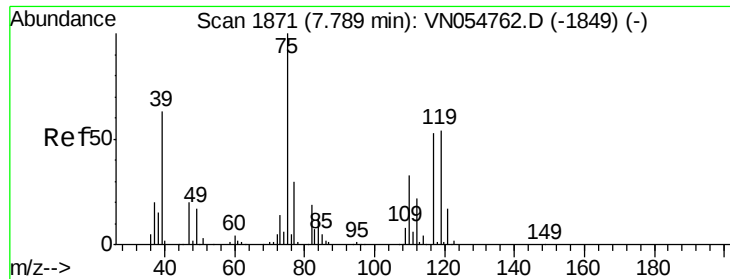
#35
Dibromofluoromethane
Concen: 48.497 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN054810.D
Acq: 30 Mar 2019 18:39

Tgt Ion:113 Resp: 285024
Ion Ratio Lower Upper
113 100
111 103.3 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

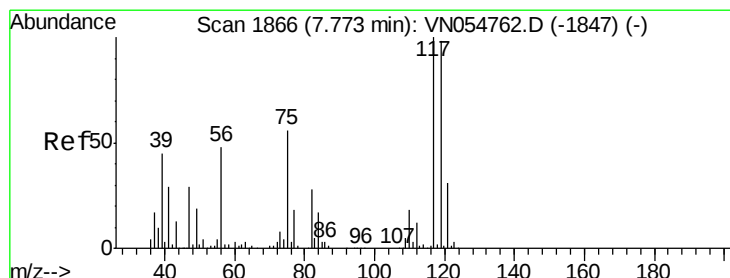
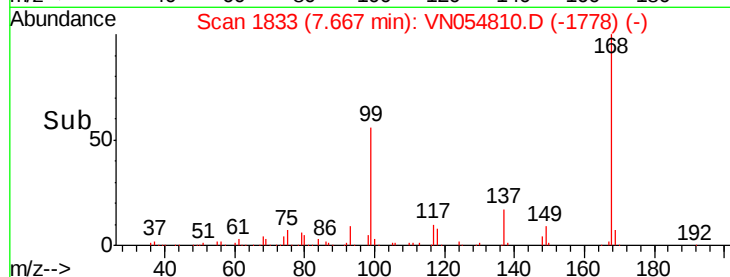
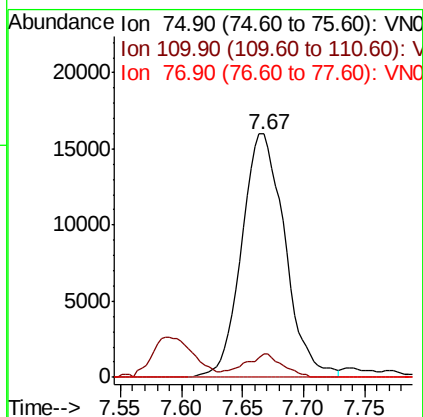
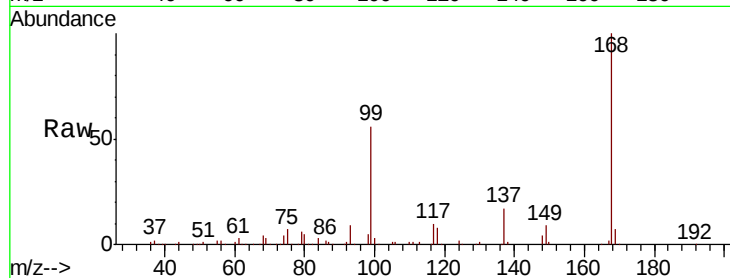




#36
 1,1-Dichloropropene
 Concen: 4.779 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054810.D
 Acq: 30 Mar 2019 18:39

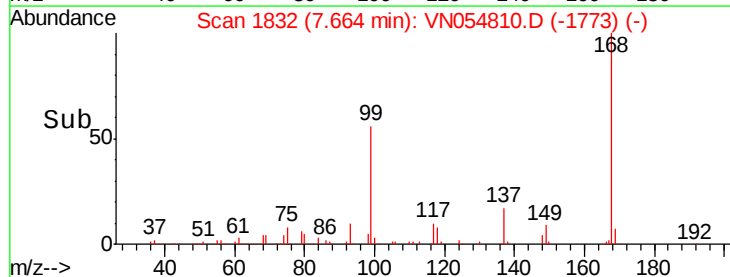
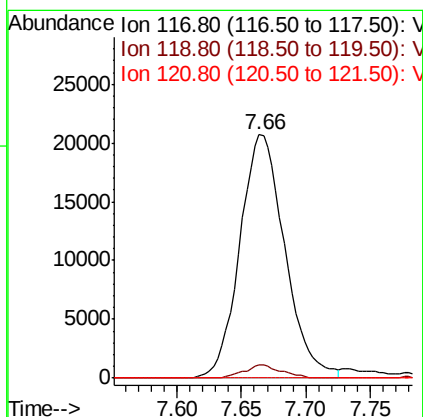
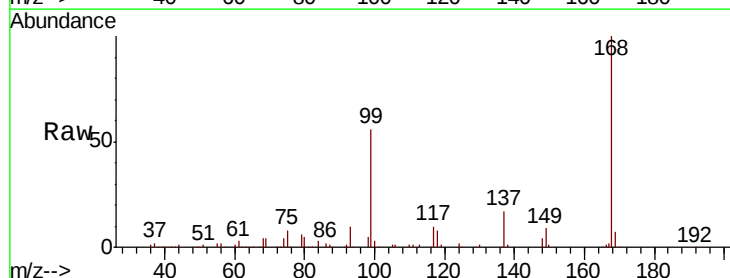
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 S6A(20)

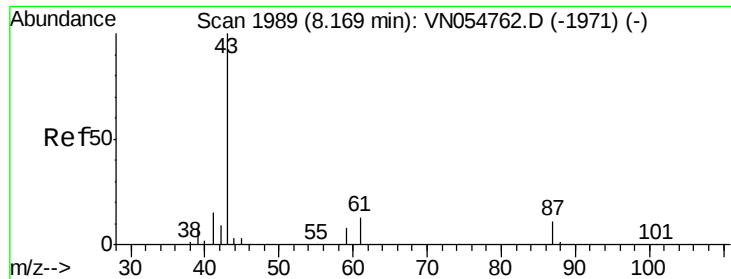
Tot Ion: 75 Resp: 39256
 Ion Ratio Lower Upper
 75 100
 110 8.5 19.1 57.5#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.309 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN054810.D
 Acq: 30 Mar 2019 18:39

Tgt Ion: 117 Resp: 50334
 Ion Ratio Lower Upper
 117 100
 119 5.3 76.3 114.5#
 121 0.0 24.6 36.8#





#43

Isopropyl Acetate

Concen: 1.732 ug/l

RT: 8.18 min Scan# 1992

Delta R.T. 0.01 min

Lab File: VN054810.D

Acq: 30 Mar 2019 18:39

Instrument :

MSVOA_N

ClientSampleId :

S6A(20)

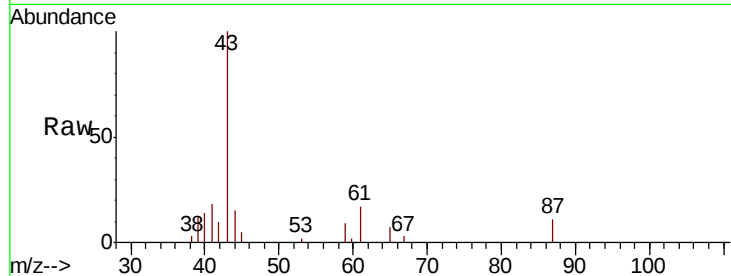
Tot Ion: 43 Resp: 16950

Ion Ratio Lower Upper

43 100

61 17.4 15.8 23.8

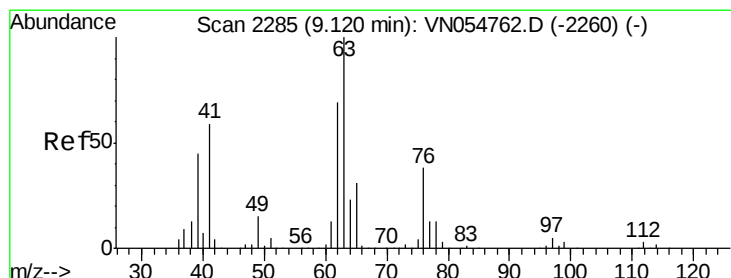
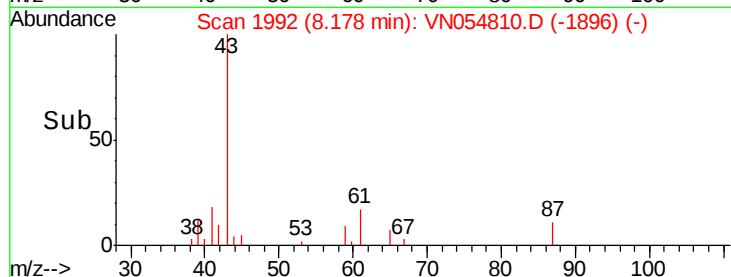
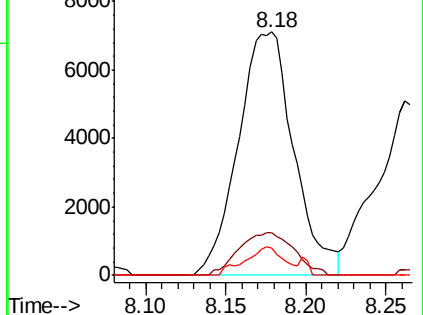
87 8.2 12.0 18.0#



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



#45

1,2-Dichloropropane

Concen: 0.249 ug/l

RT: 9.28 min Scan# 2334

Delta R.T. 0.16 min

Lab File: VN054810.D

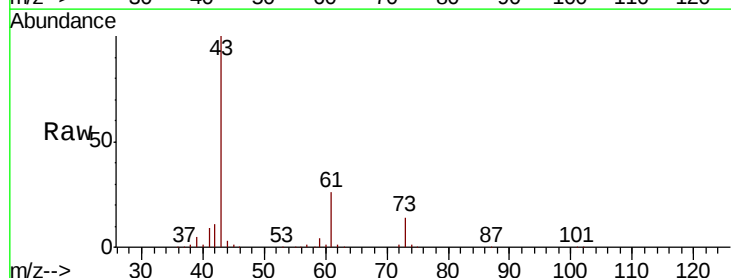
Acq: 30 Mar 2019 18:39

Tgt Ion: 63 Resp: 1672

Ion Ratio Lower Upper

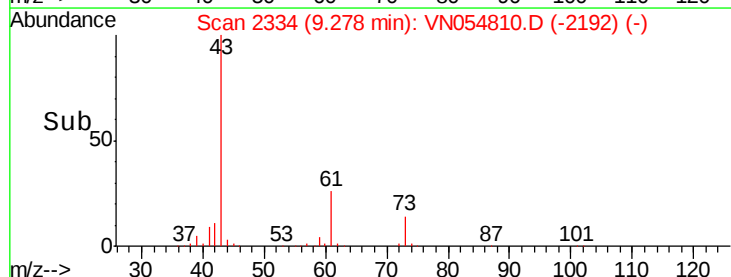
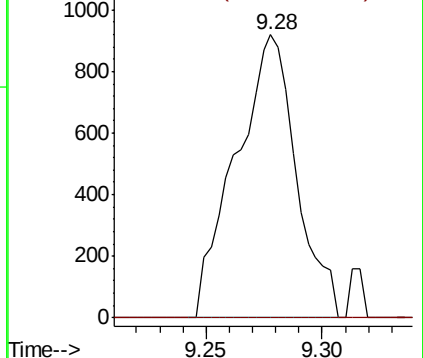
63 100

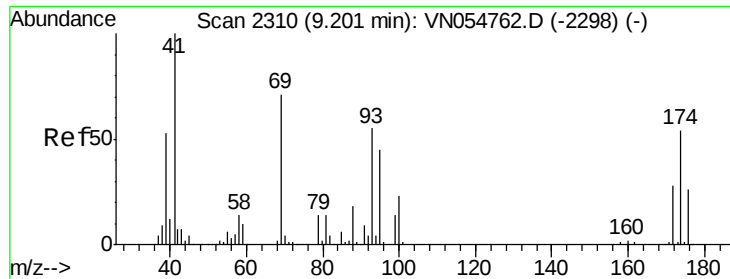
65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

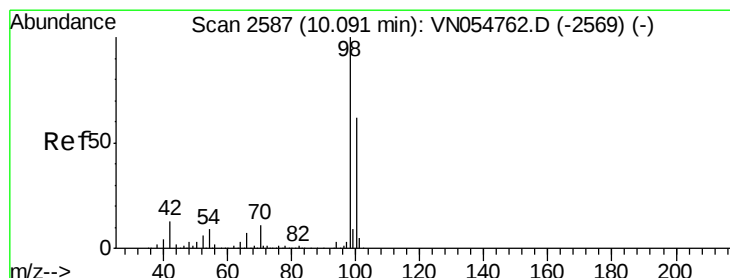
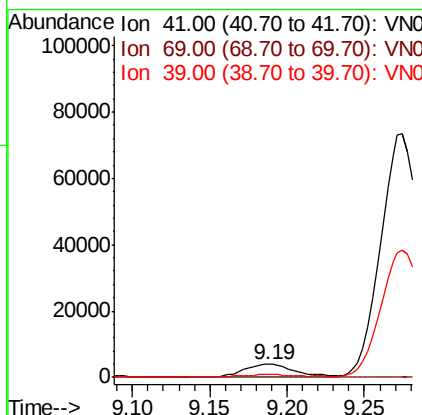
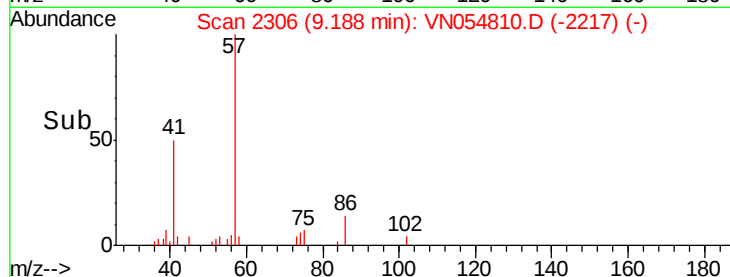
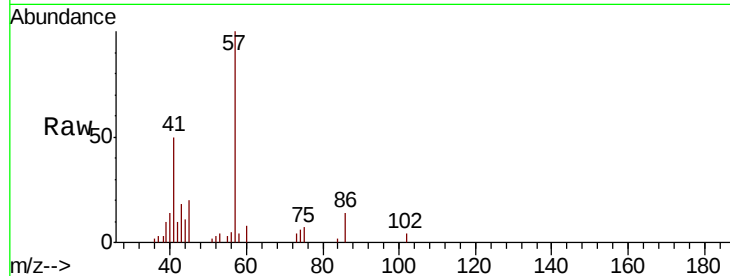




#48
Methvl methacrylate
Concen: 1.751 ug/l
RT: 9.19 min Scan# 2306
Delta R.T. -0.01 min
Lab File: VN054810.D
Acq: 30 Mar 2019 18:39

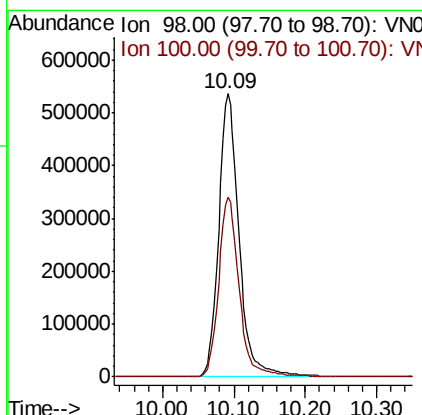
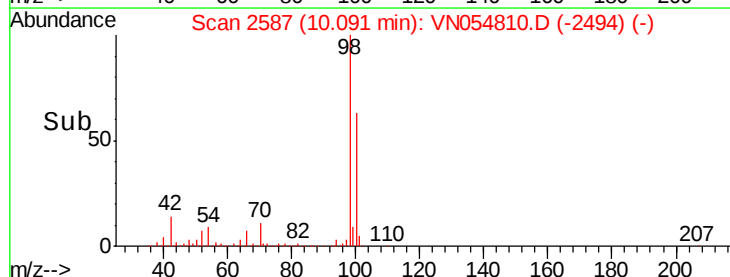
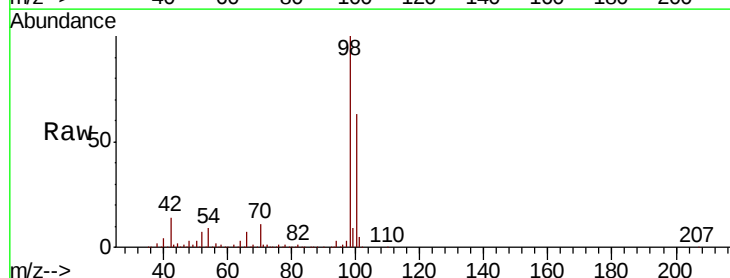
Instrument :
MSVOA_N
ClientSampleId :
S6A(20)

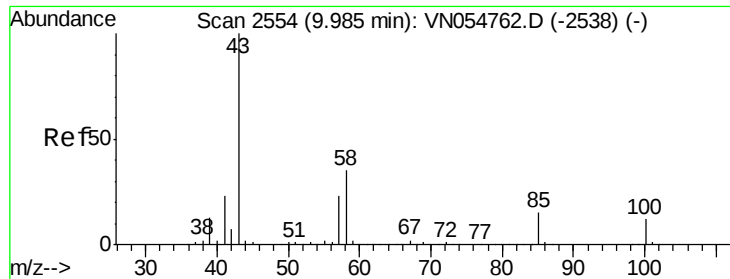
Tot Ion: 41 Resp: 9291
Ion Ratio Lower Upper
41 100
69 0.0 72.6 108.8#
39 0.0 47.5 71.3#



#50
Toluene-d8
Concen: 48.388 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054810.D
Acq: 30 Mar 2019 18:39

Tgt Ion: 98 Resp: 1057272
Ion Ratio Lower Upper
98 100
100 63.9 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 1.601 ug/l

RT: 10.03 min Scan# 2568

Delta R.T. 0.04 min

Lab File: VN054810.D

Acq: 30 Mar 2019 18:39

Instrument :

MSVOA_N

ClientSampled :

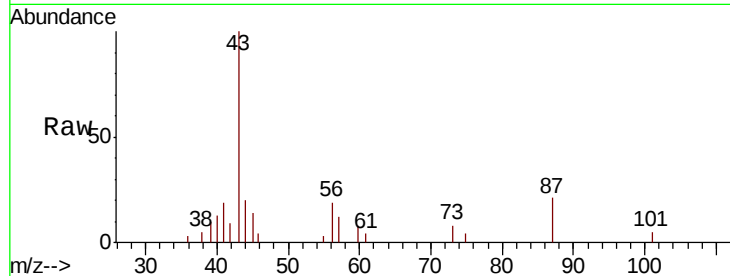
S6A(20)

Tot Ion: 43 Resp: 8808

Ion Ratio Lower Upper

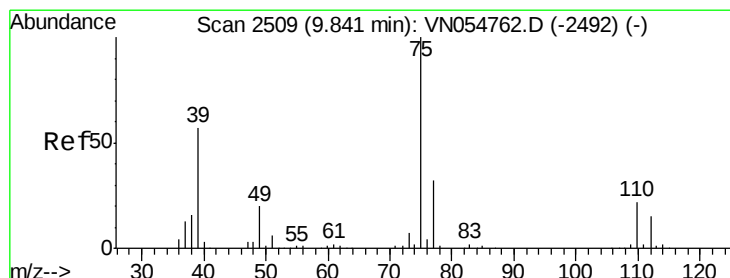
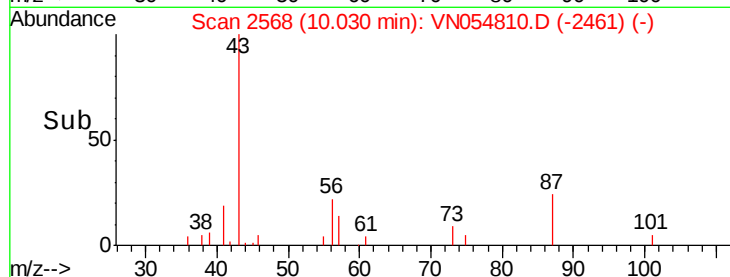
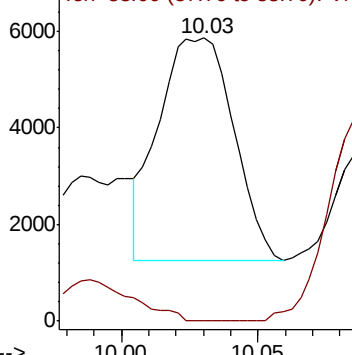
43 100

58 0.0 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 6.285 ug/l

RT: 9.91 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN054810.D

Acq: 30 Mar 2019 18:39

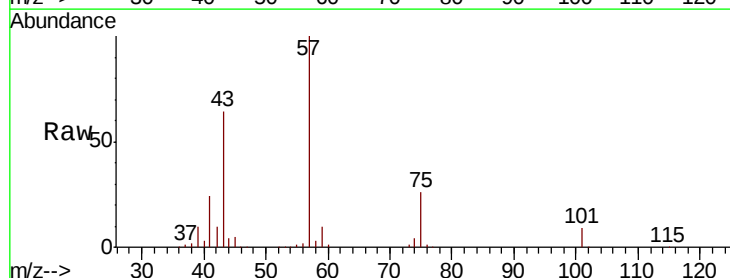
Tgt Ion: 75 Resp: 55336

Ion Ratio Lower Upper

75 100

77 0.7 25.4 38.0#

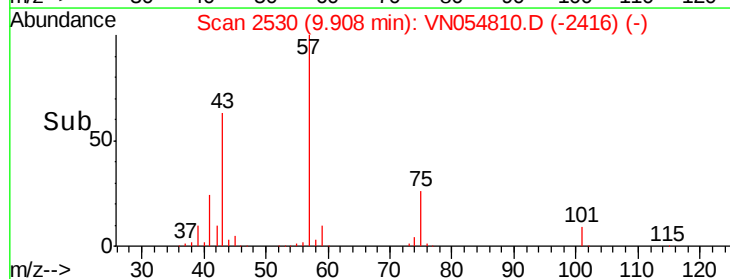
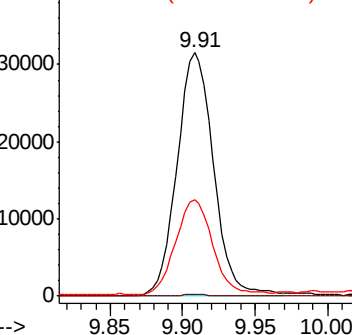
39 39.1 37.2 55.8

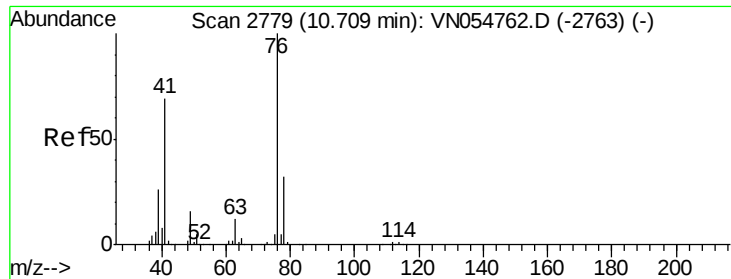


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.188 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN054810.D

Acq: 30 Mar 2019 18:39

Instrument :

MSVOA_N

ClientSampleId :

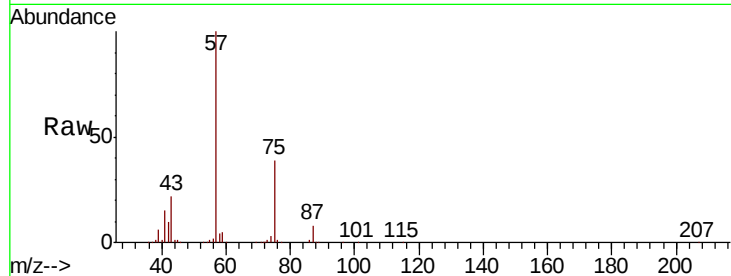
S6A(20)

Tot Ion: 76 Resp: 10625

Ion Ratio Lower Upper

76 100

78 0.3 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.77

8000

6000

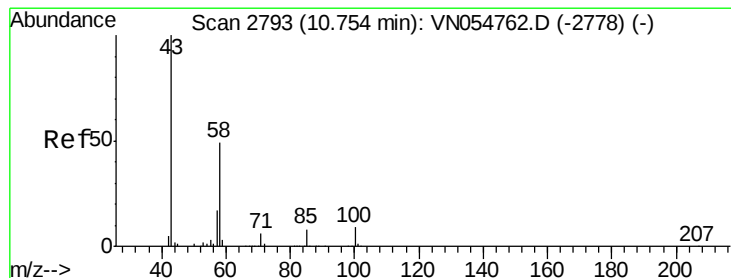
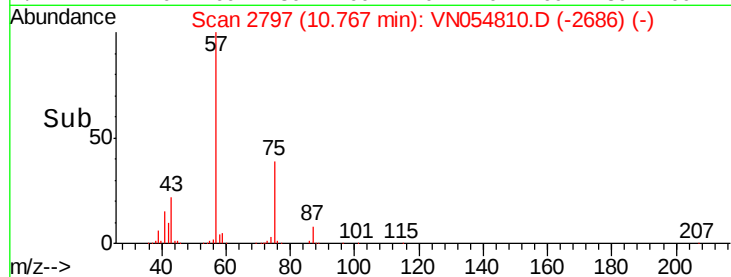
4000

2000

0

Time-->

10.70 10.75 10.80



#59

2-Hexanone

Concen: 49.927 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN054810.D

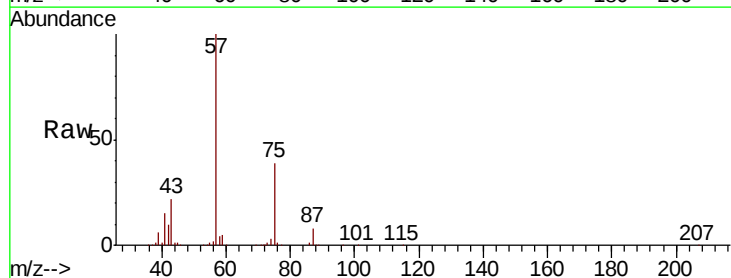
Acq: 30 Mar 2019 18:39

Tgt Ion: 43 Resp: 175878

Ion Ratio Lower Upper

43 100

58 18.3 28.0 83.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.77

120000

100000

80000

60000

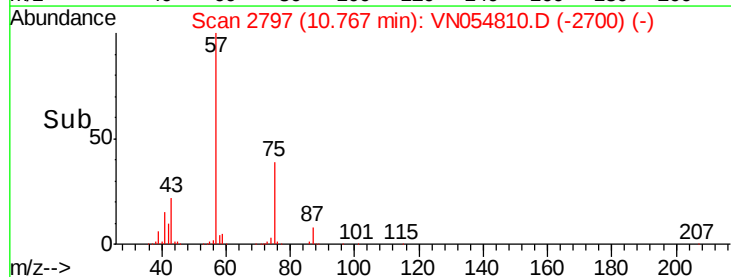
40000

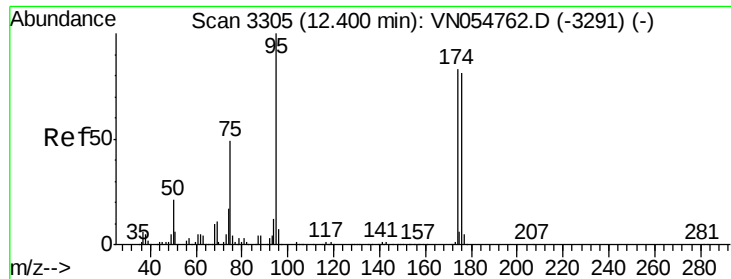
20000

0

Time-->

10.70 10.75 10.80 10.85





#62

4-Bromofluorobenzene

Concen: 43.802 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054810.D

Acq: 30 Mar 2019 18:39

Instrument :

MSVOA_N

ClientSampleId :

S6A(20)

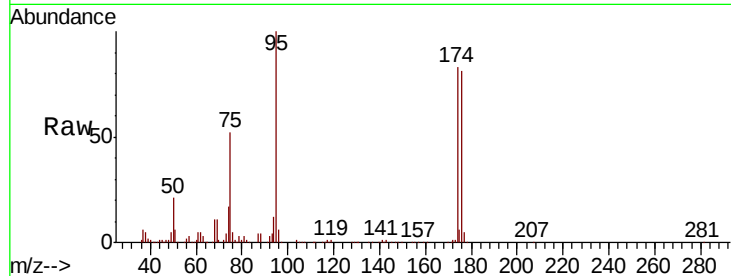
Tot Ion: 95 Resp: 318297

Ion Ratio Lower Upper

95 100

174 83.5 0.0 191.0

176 81.9 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054810.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN054810.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN054810.D (-3212) (-)

250000

200000

150000

100000

50000

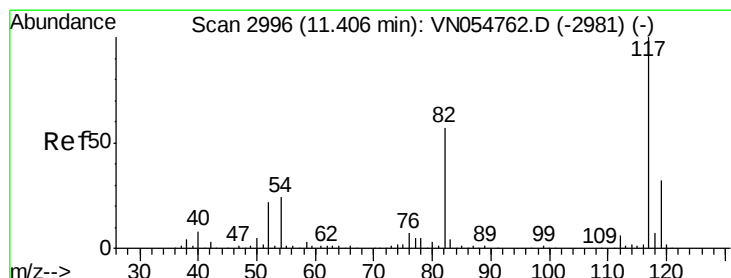
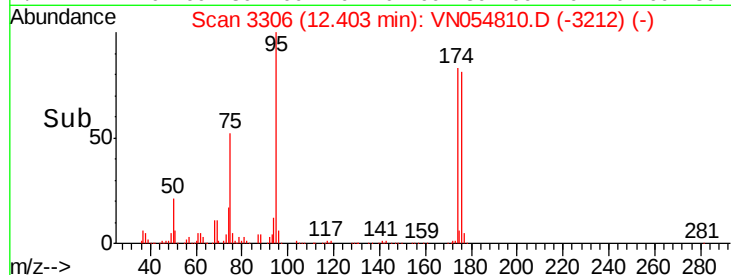
0

12.30

12.40

12.50

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN054810.D

Acq: 30 Mar 2019 18:39

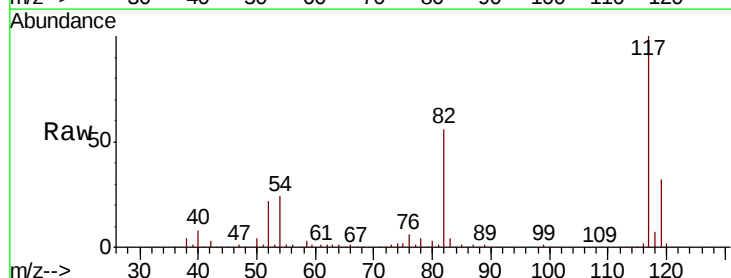
Tgt Ion: 117 Resp: 737811

Ion Ratio Lower Upper

117 100

82 56.2 40.0 60.0

119 32.0 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VN054810.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN054810.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN054810.D (-2903) (-)

500000

400000

300000

200000

100000

0

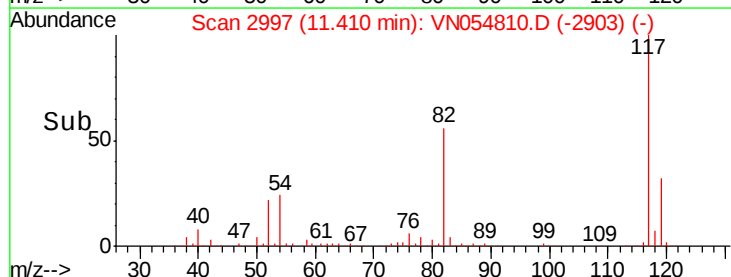
11.30

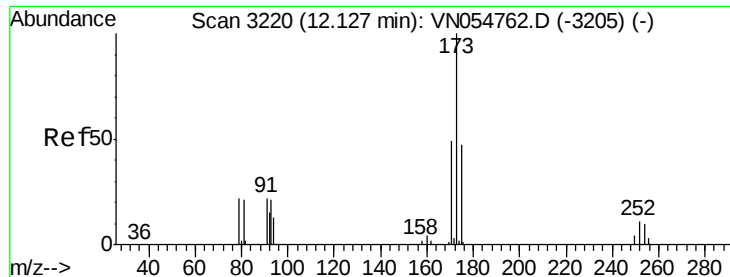
11.40

11.50

11.60

Time-->

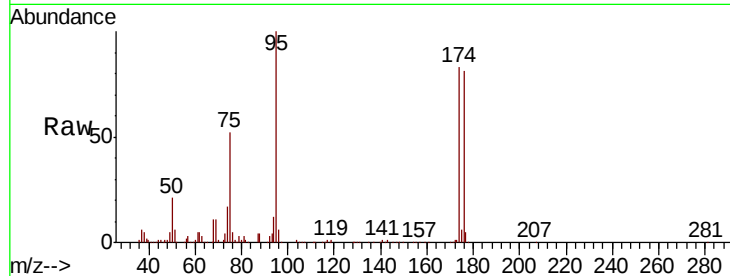




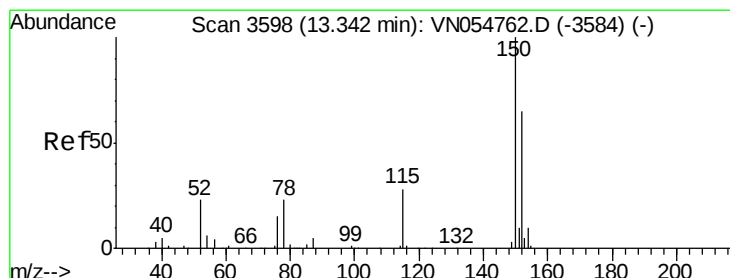
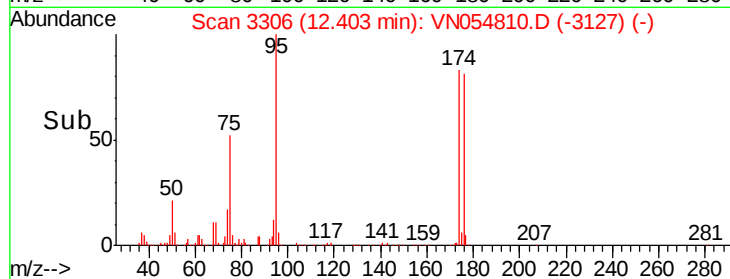
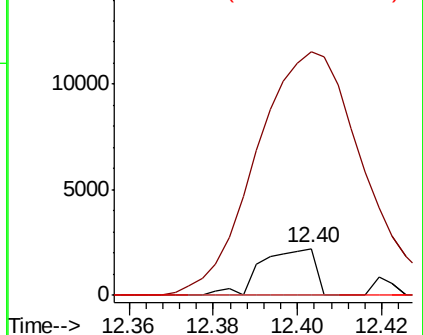
#71
Bromoform
Concen: 0.618 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN054810.D
Acq: 30 Mar 2019 18:39

Instrument :
MSVOA_N
ClientSampled :
S6A(20)

Tot Ion:173 Resp: 1956
Ion Ratio Lower Upper
173 100
175 866.8 24.4 73.2#
254 0.0 0.1 0.1#

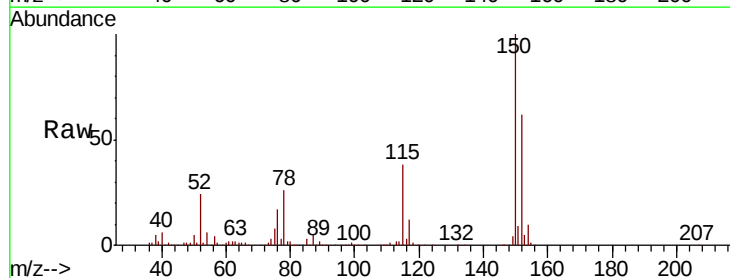


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

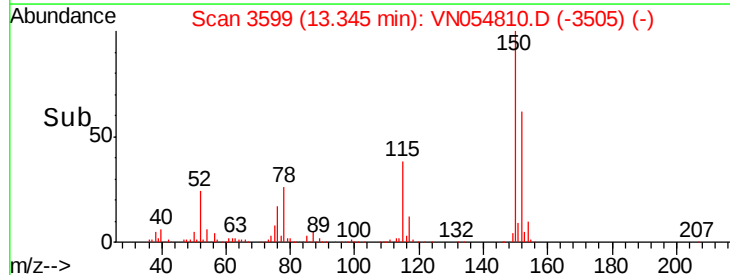
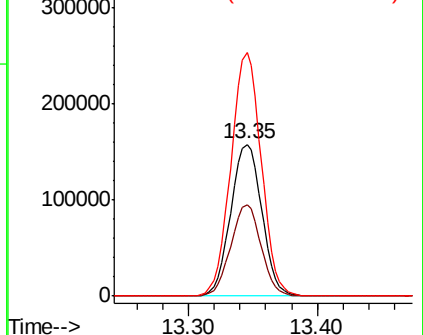


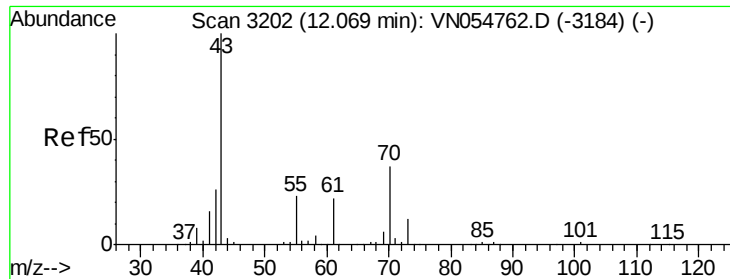
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN054810.D
Acq: 30 Mar 2019 18:39

Tgt Ion:152 Resp: 265179
Ion Ratio Lower Upper
152 100
115 58.6 27.2 81.6
150 156.3 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-amvl acetate

Concen: 2.613 ug/l

RT: 11.88 min Scan# 3143

Delta R.T. -0.19 min

Lab File: VN054810.D

Acq: 30 Mar 2019 18:39

Instrument :

MSVOA_N

ClientSampleId :

S6A(20)

Tot Ion: 43 Resp: 17644

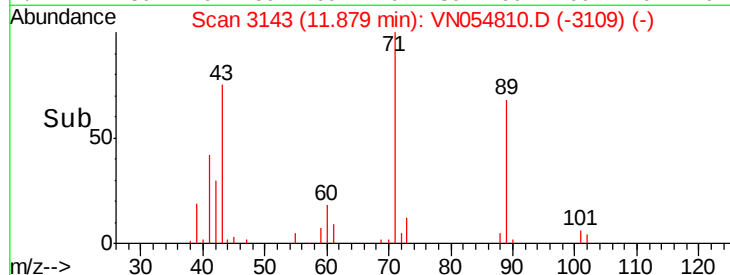
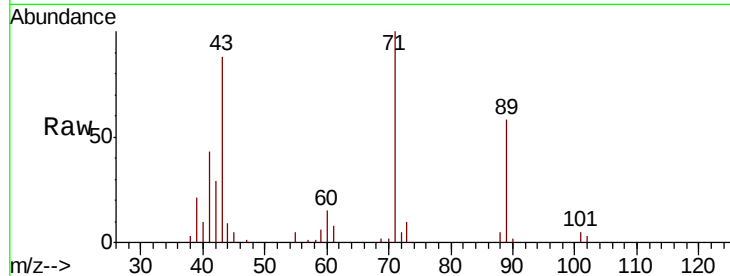
Ion Ratio Lower Upper

43 100

70 1.3 35.4 53.0#

55 5.5 19.8 29.6#

61 8.7 19.8 29.6#

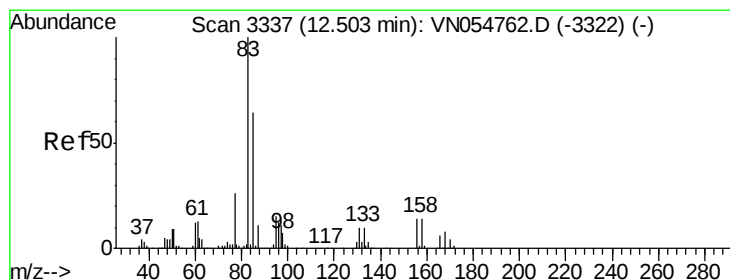
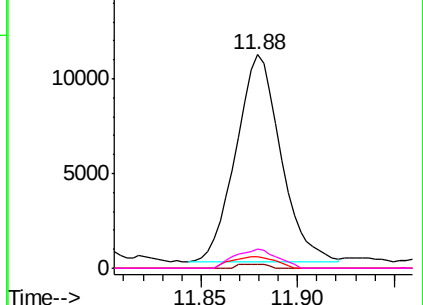


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3304

Delta R.T. -0.11 min

Lab File: VN054810.D

Acq: 30 Mar 2019 18:39

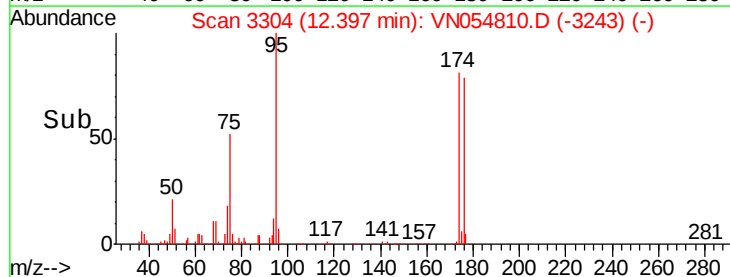
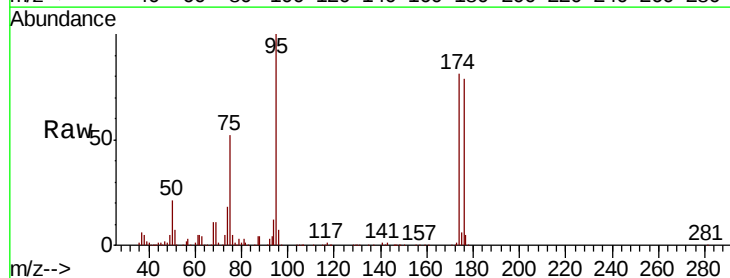
Tgt Ion: 83 Resp: 173

Ion Ratio Lower Upper

83 100

131 238.2 5.8 17.4#

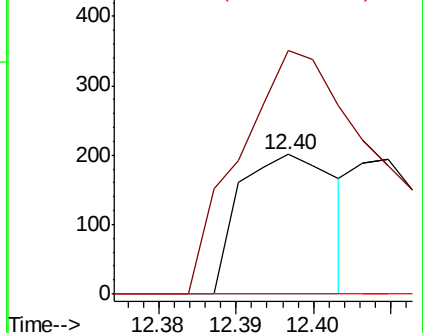
85 0.0 32.2 96.6#

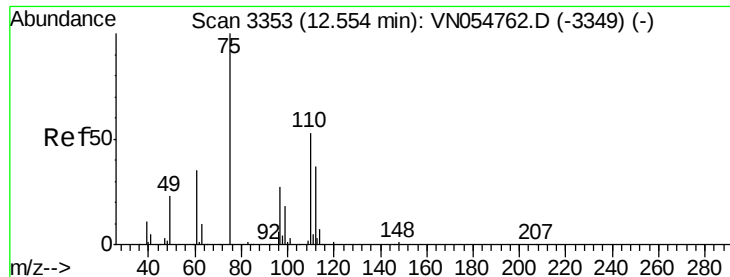


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0





#76

1,2,3-Trichloropropane

Concen: 35.761 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN054810.D

Acq: 30 Mar 2019 18:39

Instrument :

MSVOA_N

ClientSampled :

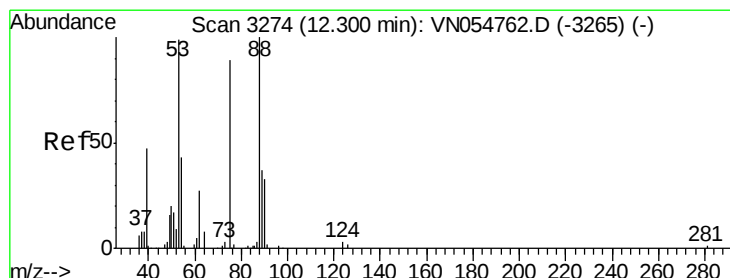
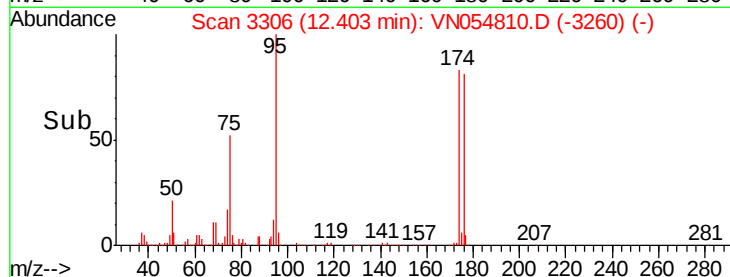
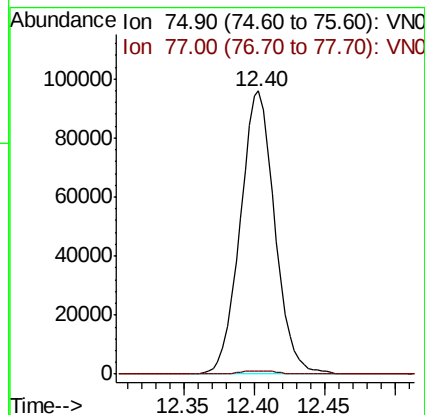
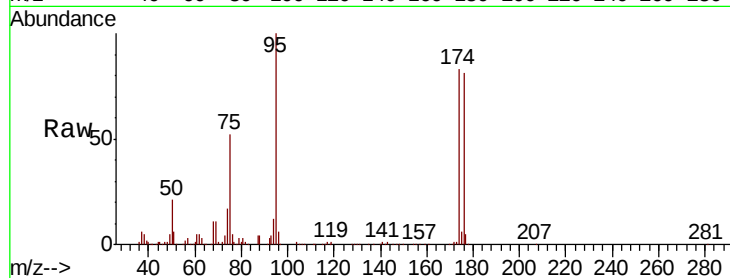
S6A(20)

Tot Ion: 75 Resp: 164743

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 139.101 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN054810.D

Acq: 30 Mar 2019 18:39

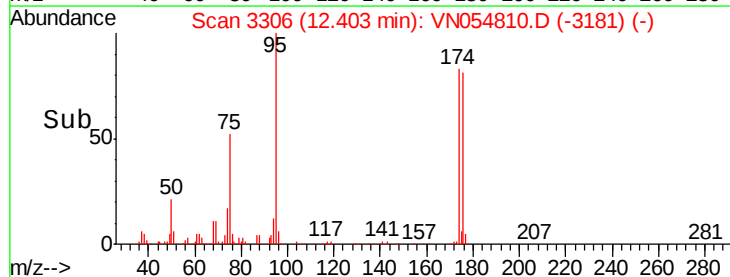
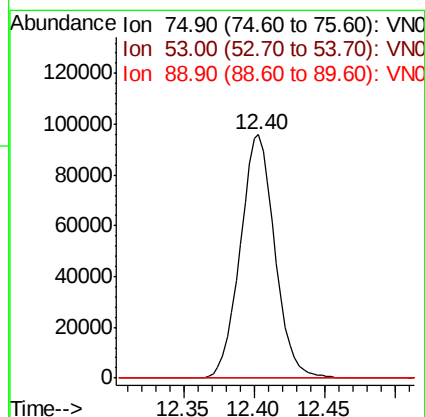
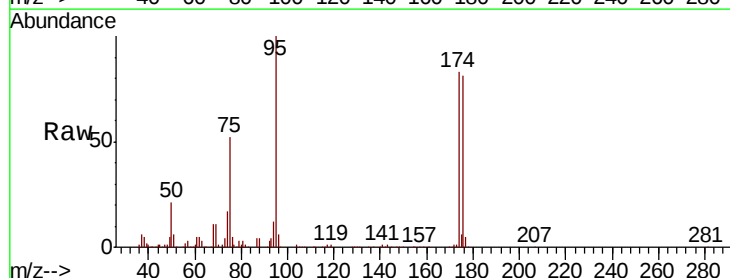
Tgt Ion: 75 Resp: 164743

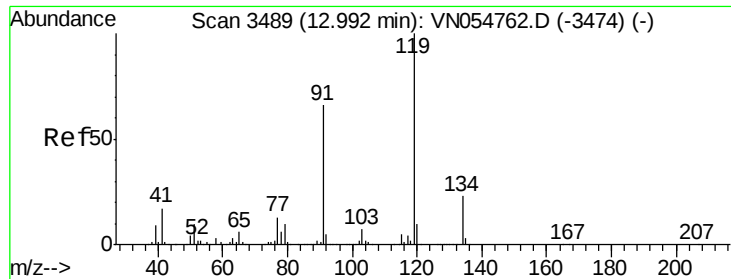
Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#

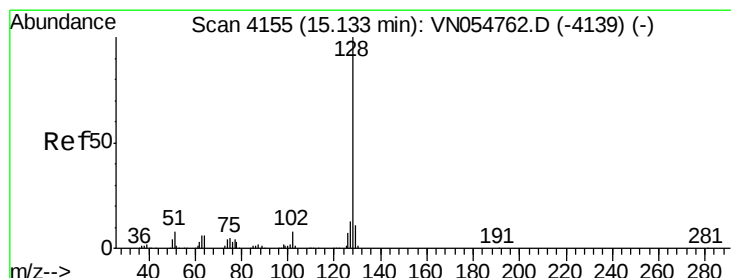
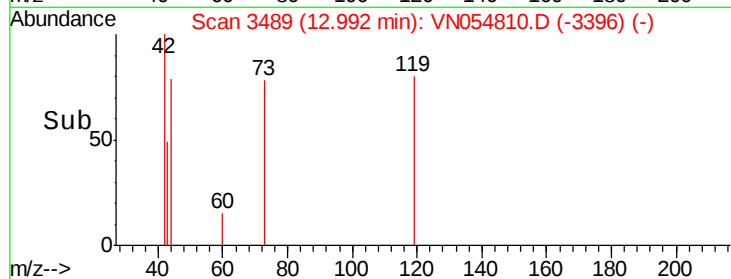
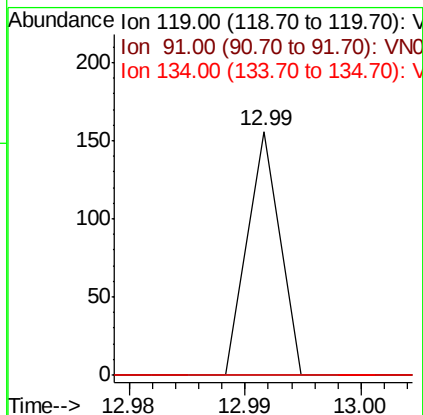
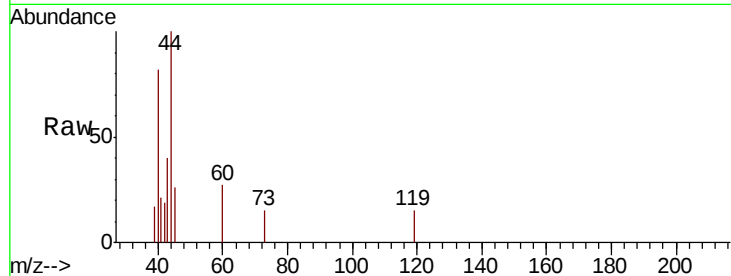




#83
tert-Butylbenzene
Concen: Below Cal
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN054810.D
Acq: 30 Mar 2019 18:39

Instrument :
MSVOA_N
ClientSampled :
S6A(20)

Tot Ion	Ratio	Lower	Upper
119	100		
91	0.0	30.9	92.8#
134	0.0	13.2	39.6#



#95
Naphthalene
Concen: 2.026 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN054810.D
Acq: 30 Mar 2019 18:39

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.1	15.1
129	11.6	8.7	13.1

