

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033019\
 Data File : VN054813.D
 Acq On : 30 Mar 2019 19:59
 Operator : JC/SP
 Sample : K2138-20
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 30 22:43:30 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

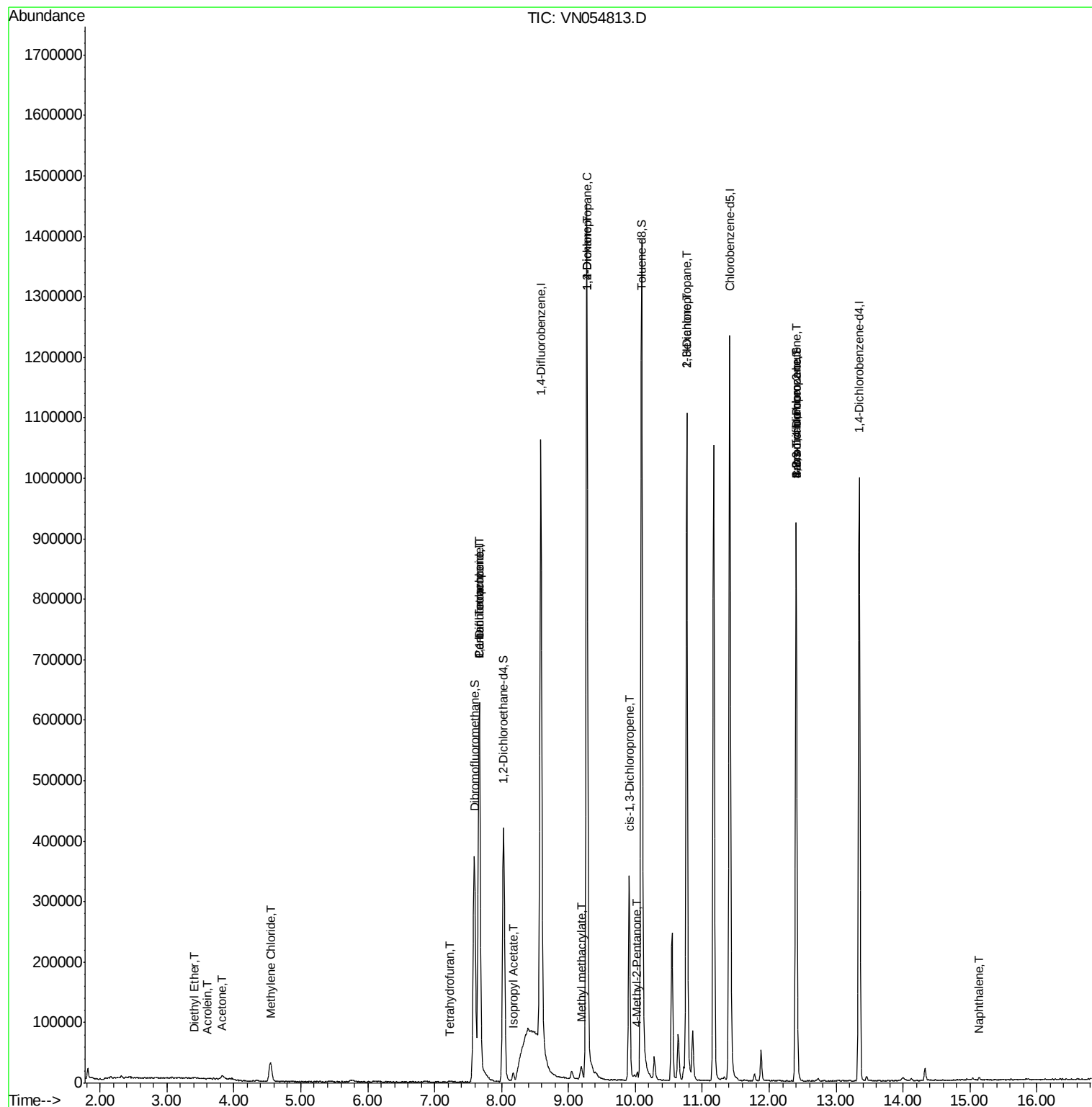
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	524334	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	877785	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	729151	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	264228	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	361059	51.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.16%	
35) Dibromofluoromethane	7.59	113	282507	48.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.54%	
50) Toluene-d8	10.09	98	1036870	47.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.32%	
62) 4-Bromofluorobenzene	12.40	95	314959	43.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.06%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.58	94	320	Below Cal	#	2
8) Diethyl Ether	3.42	74	770	0.295	ug/l	98
13) Acrolein	3.60	56	100	0.304	ug/l #	50
16) Acetone	3.82	43	11426	6.779	ug/l #	79
18) Methyl Acetate	4.34	43	3567	Below Cal	#	68
20) Methylene Chloride	4.55	84	21129	3.554	ug/l #	86
29) Tetrahydrofuran	7.23	42	1171	0.677	ug/l #	51
31) Cyclohexane	7.67	56	12187	Below Cal	#	33
36) 1,1-Dichloropropene	7.67	75	41374	5.058	ug/l #	47
38) Carbon Tetrachloride	7.67	117	50146	6.312	ug/l #	16
43) Isopropyl Acetate	8.18	43	16980	1.742	ug/l #	94
45) 1,2-Dichloropropane	9.27	63	1788	0.268	ug/l #	43
48) Methyl methacrylate	9.18	41	8729	1.652	ug/l #	25
49) 1,4-Dioxane	9.28	88	30	0.572	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	10524	1.921	ug/l #	36
54) cis-1,3-Dichloropropene	9.91	75	55224	6.299	ug/l #	74
57) 1,3-Dichloropropane	10.77	76	10846	1.218	ug/l #	43
59) 2-Hexanone	10.77	43	178044	50.758	ug/l #	48
71) Bromoform	12.40	173	2598	0.830	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.40	83	61	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	165697	36.098	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	165697	140.410	ug/l #	11
95) Naphthalene	15.14	128	3921	0.412	ug/l #	90

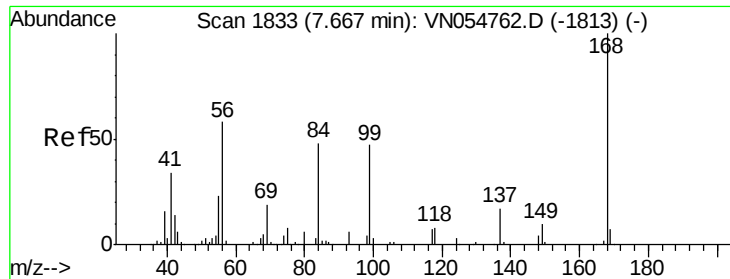
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Mar 30 00:48:18 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: VN054813.D

Acq: 30 Mar 2019 19:59

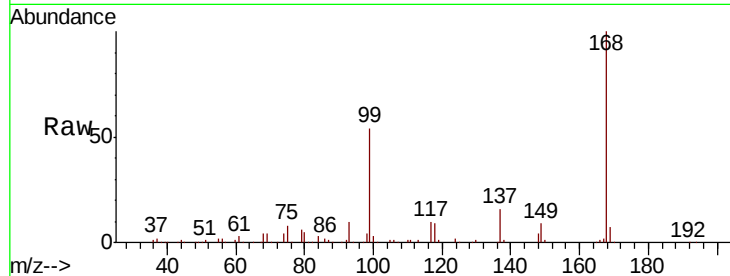
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 524334

Ion Ratio Lower Upper

168 100

99 54.2 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN054762.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN054762.D (-1813) (-)

7.67

250000

200000

150000

100000

50000

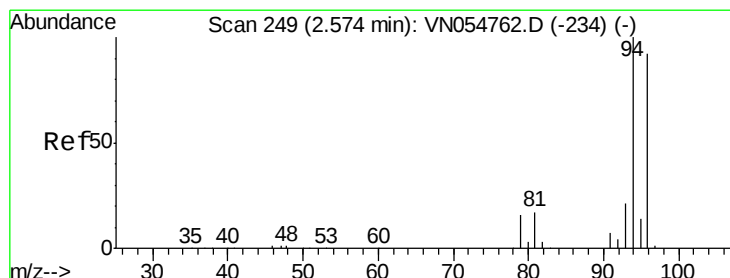
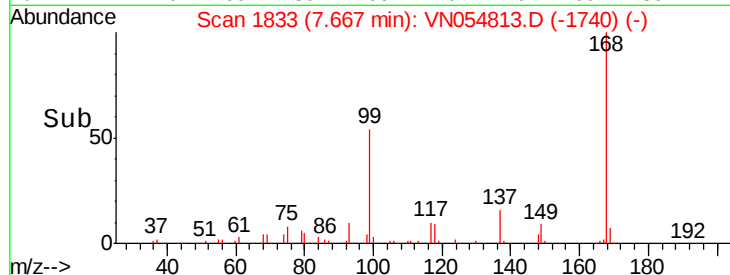
0

7.60

7.70

7.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN054813.D

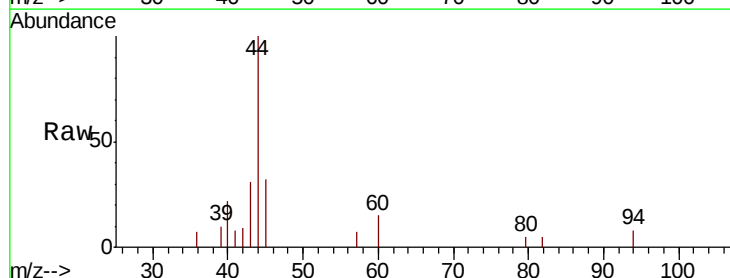
Acq: 30 Mar 2019 19:59

Tgt Ion: 94 Resp: 320

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN054762.D (-234) (-)

Ion 95.90 (95.60 to 96.60): VN054762.D (-234) (-)

2.58

300

250

200

150

100

50

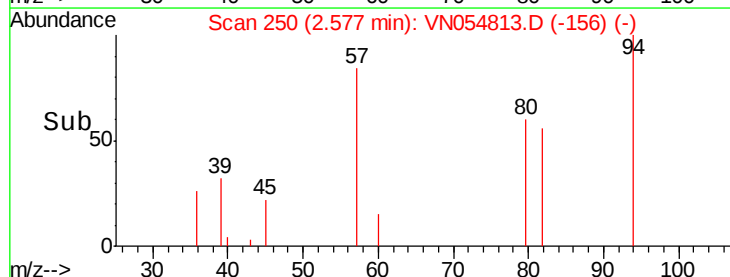
0

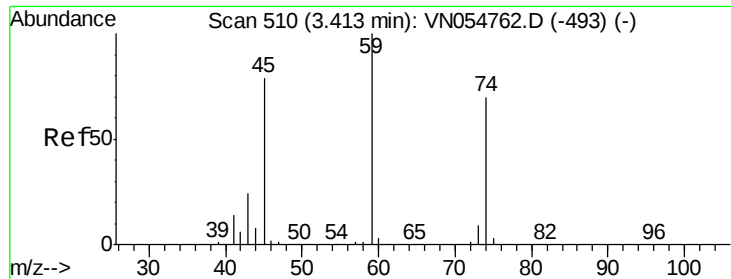
2.56

2.58

2.60

Time-->

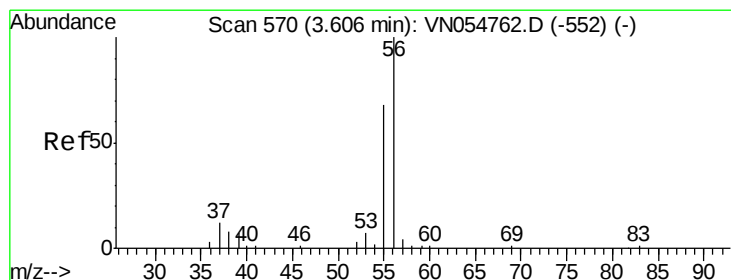
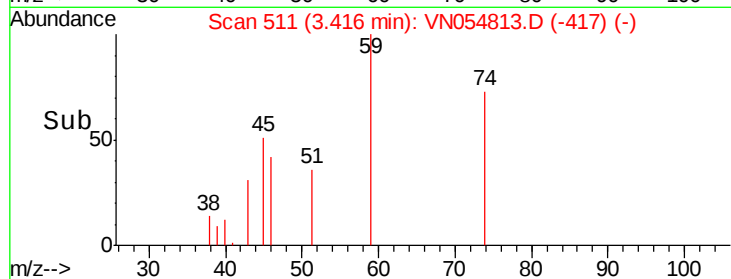
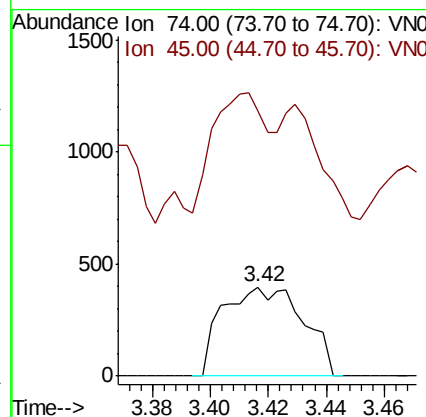
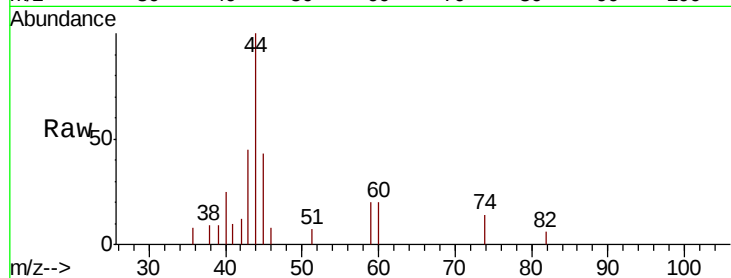




#8
Diethyl Ether
Concen: 0.295 ug/l
RT: 3.42 min Scan# 511
Delta R.T. 0.00 min
Lab File: VN054813.D
Acq: 30 Mar 2019 19:59

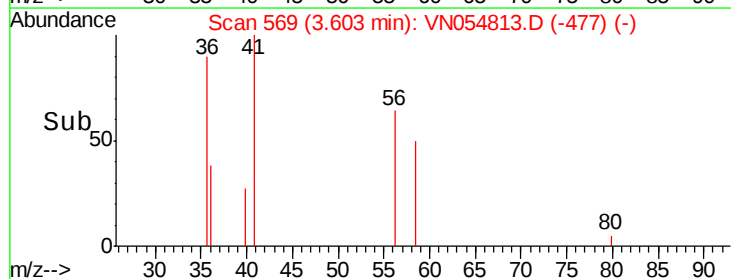
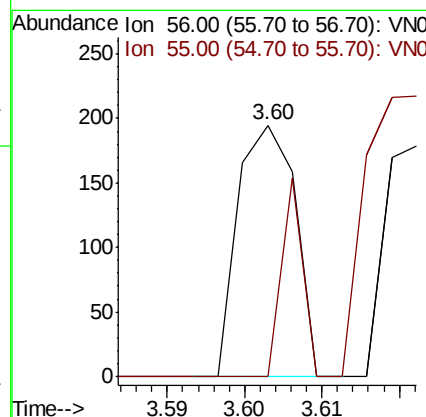
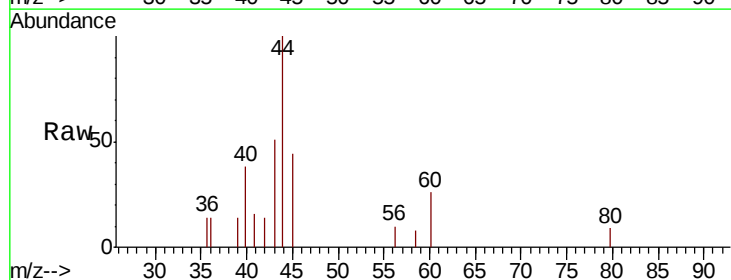
Instrument :
MSVOA_N
ClientSampled :

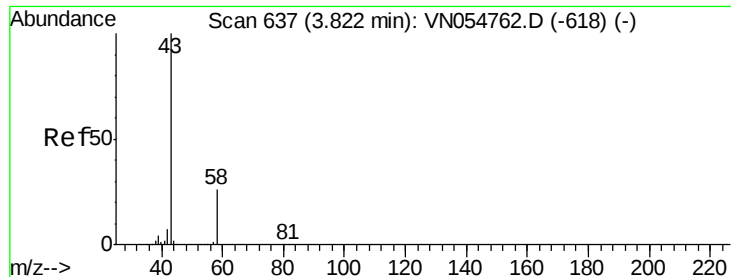
Tot Ion: 74 Resp: 770
Ion Ratio Lower Upper
74 100
45 84.3 43.1 129.4



#13
Acrolein
Concen: 0.304 ug/l
RT: 3.60 min Scan# 569
Delta R.T. -0.00 min
Lab File: VN054813.D
Acq: 30 Mar 2019 19:59

Tgt Ion: 56 Resp: 100
Ion Ratio Lower Upper
56 100
55 30.0 56.7 85.1#





#16

Acetone

Concen: 6.779 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN054813.D

Acq: 30 Mar 2019 19:59

Instrument :

MSVOA_N

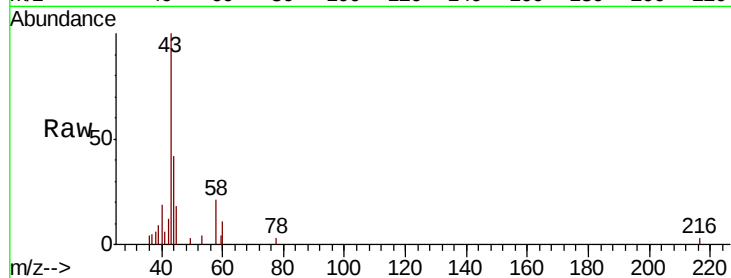
ClientSampled :

Tot Ion: 43 Resp: 11426

Ion Ratio Lower Upper

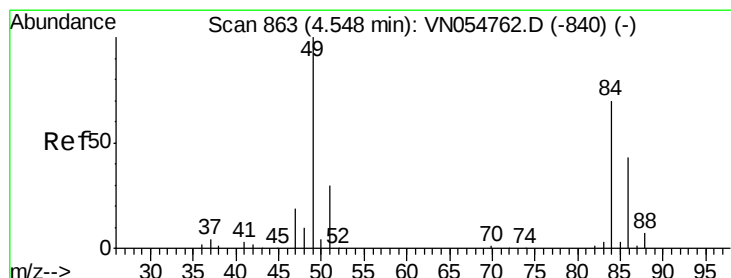
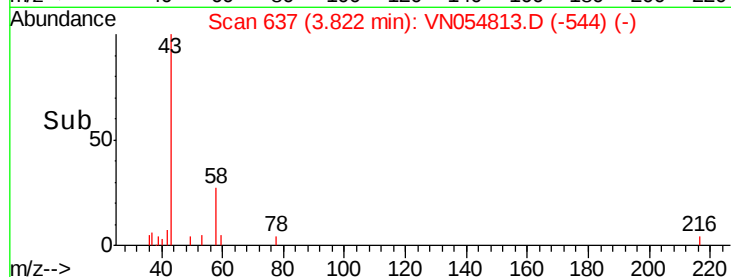
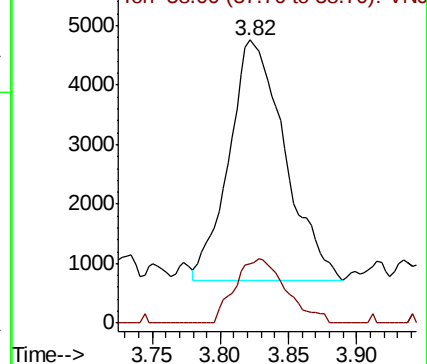
43 100

58 24.7 29.9 44.9#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO



#20

Methylene Chloride

Concen: 3.554 ug/l

RT: 4.55 min Scan# 863

Delta R.T. 0.00 min

Lab File: VN054813.D

Acq: 30 Mar 2019 19:59

Tgt Ion: 84 Resp: 21129

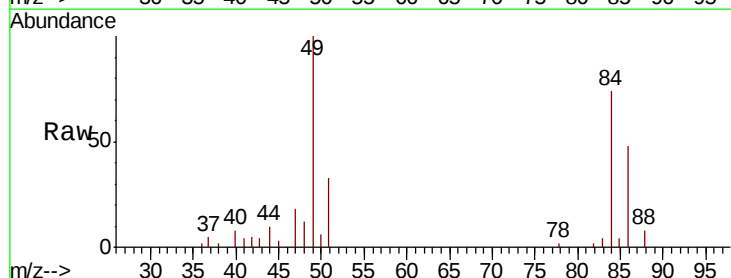
Ion Ratio Lower Upper

84 100

49 134.7 89.7 134.5#

51 44.2 28.2 42.4#

86 64.2 50.8 76.2

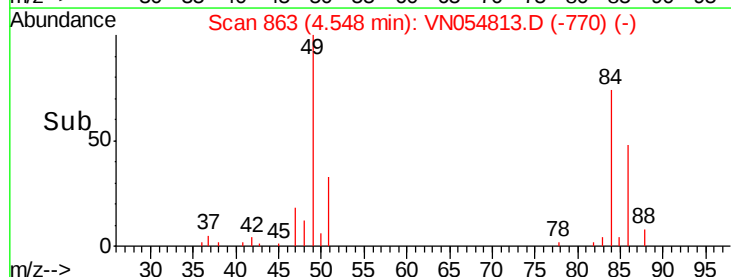
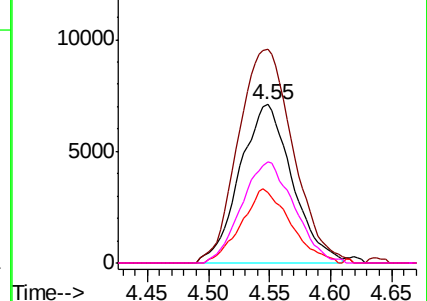


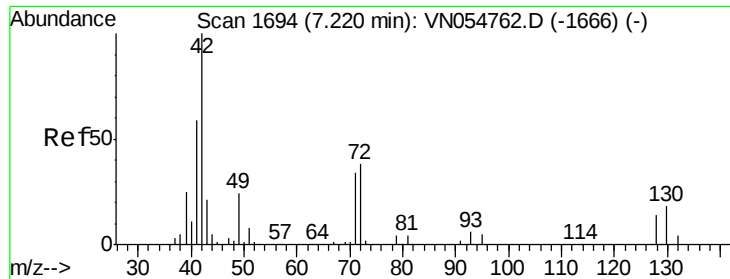
Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO





#29

Tetrahydrofuran

Concen: 0.677 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.01 min

Lab File: VN054813.D

Acq: 30 Mar 2019 19:59

Instrument :

MSVOA_N

ClientSampleId :

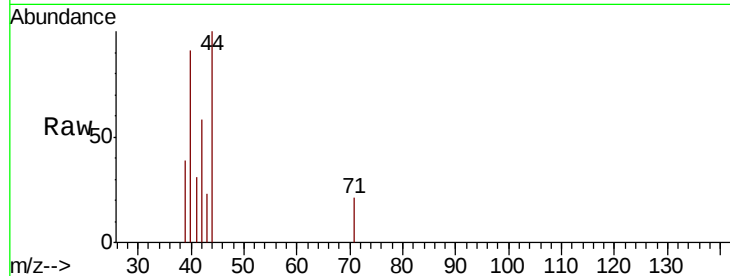
Tot Ion: 42 Resp: 1171

Ion Ratio Lower Upper

42 100

72 9.5 37.8 56.6#

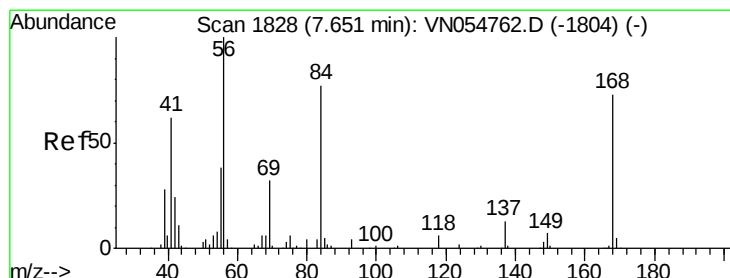
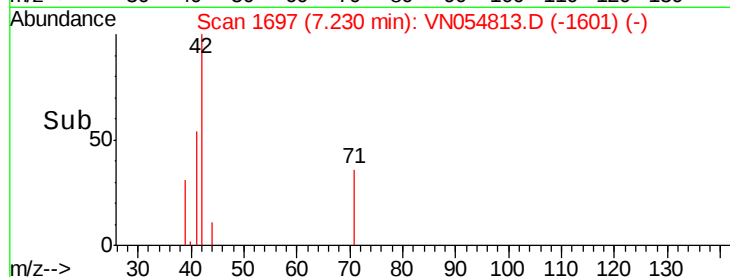
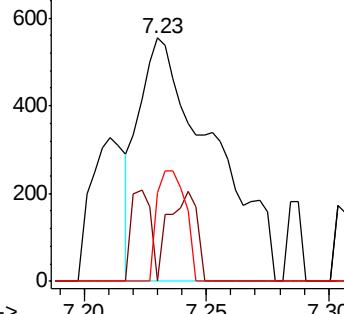
71 17.8 36.2 54.2#



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# 1834

Delta R.T. 0.02 min

Lab File: VN054813.D

Acq: 30 Mar 2019 19:59

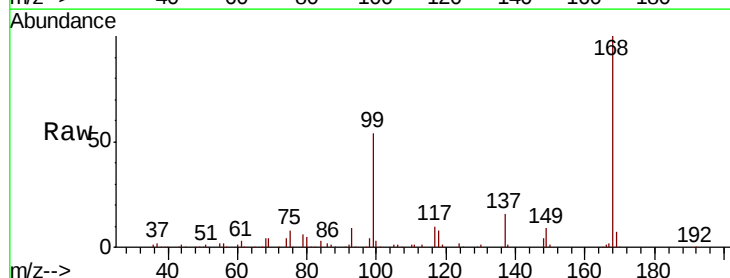
Tgt Ion: 56 Resp: 12187

Ion Ratio Lower Upper

56 100

69 157.5 27.8 41.6#

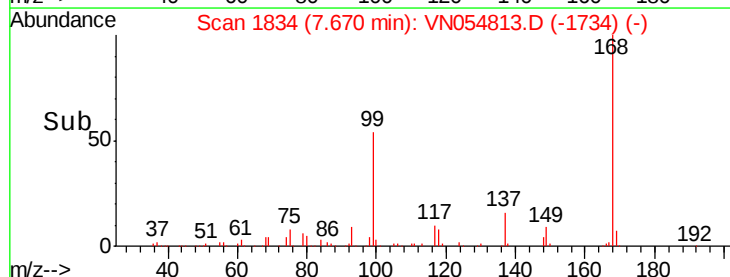
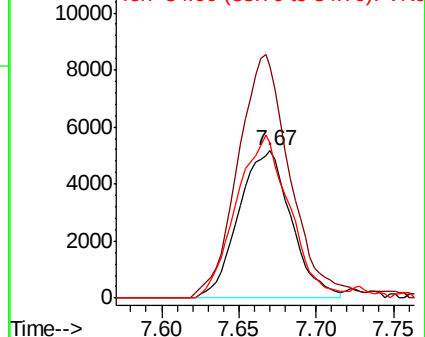
84 105.7 74.6 111.8

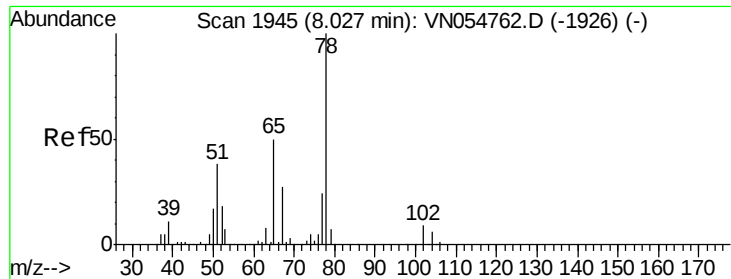


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

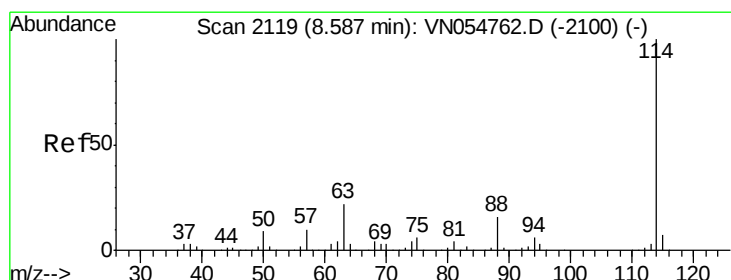
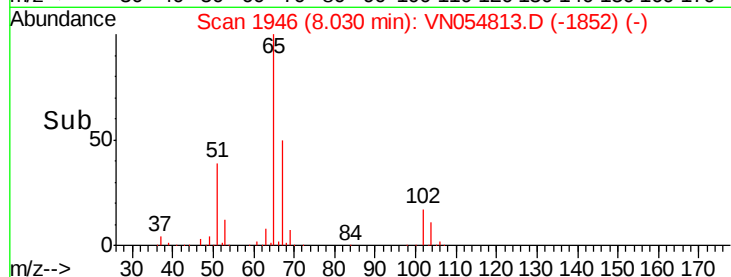
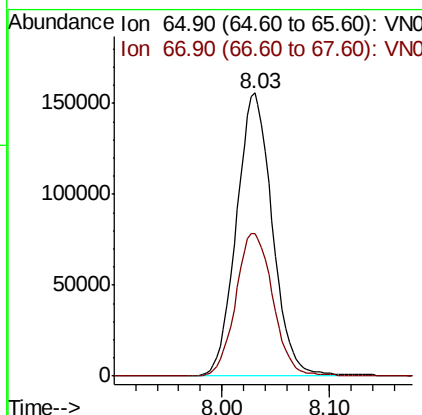
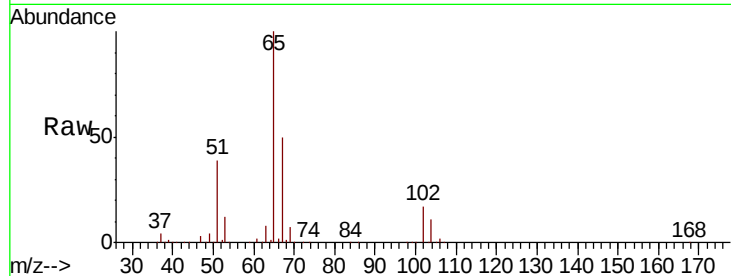




#33
 1,2-Dichloroethane-d4
 Concen: 51.083 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN054813.D
 Acq: 30 Mar 2019 19:59

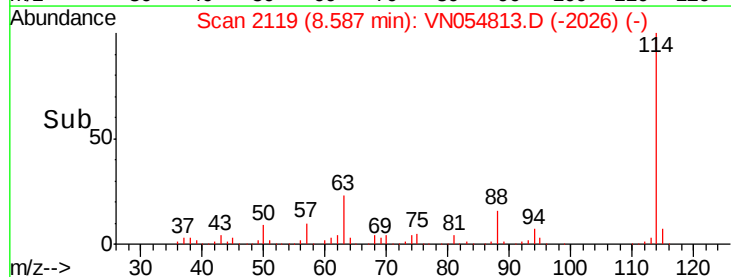
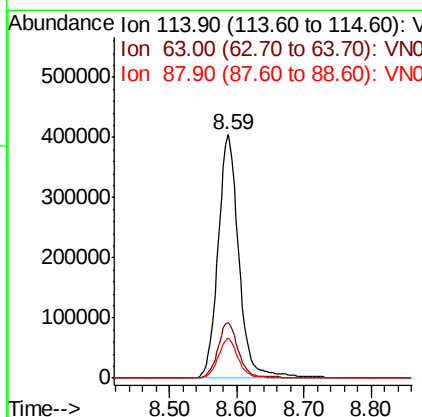
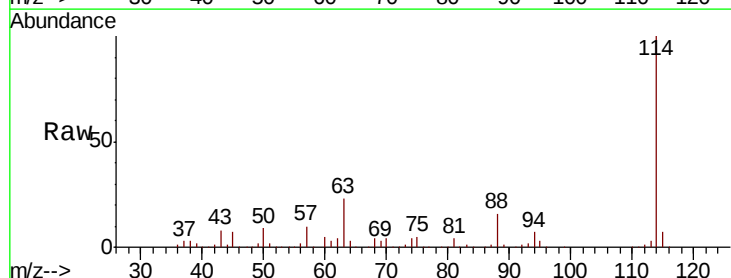
Instrument :
 MSVOA_N
 ClientSampleId :

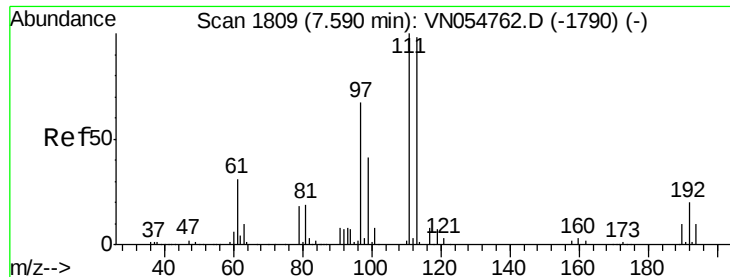
Tot Ion: 65 Resp: 361059
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054813.D
 Acq: 30 Mar 2019 19:59

Tgt Ion: 114 Resp: 877785
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 35.2
 88 16.2 0.0 30.2

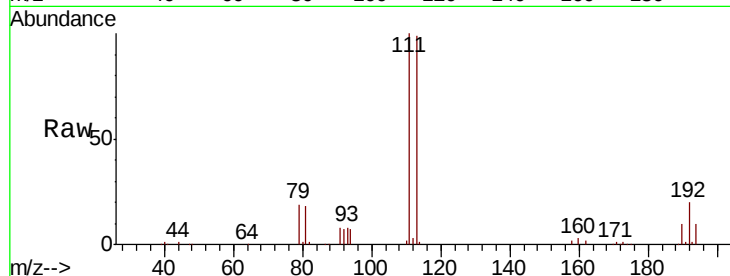




#35
 Dibromofluoromethane
 Concen: 48.274 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054813.D
 Acq: 30 Mar 2019 19:59

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.2	123.4
192	19.9	19.2	28.8

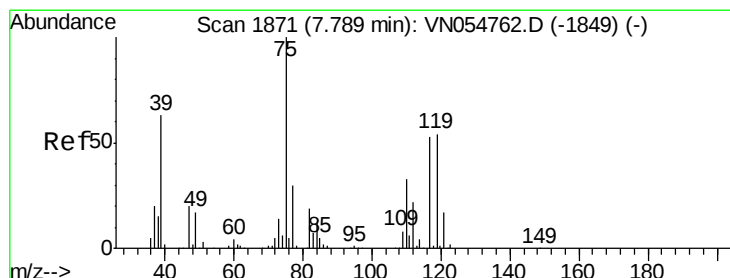
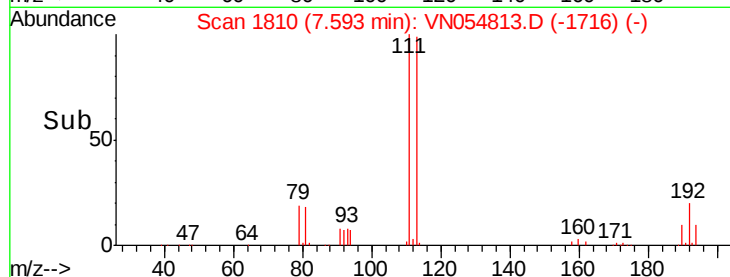
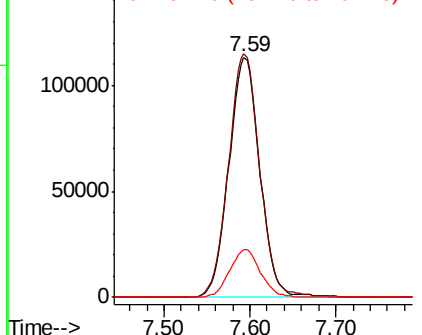


Abundance

Ion 112.80 (112.50 to 113.50): V

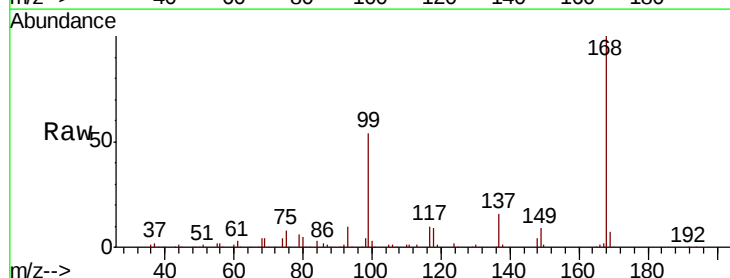
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 5.058 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054813.D
 Acq: 30 Mar 2019 19:59

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.6	19.1	57.5#
77	0.0	25.0	37.4#

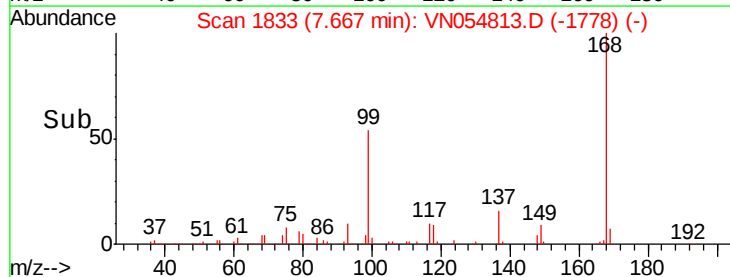
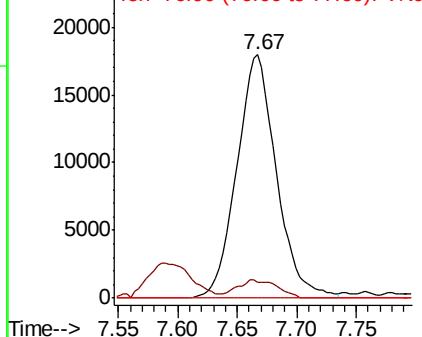


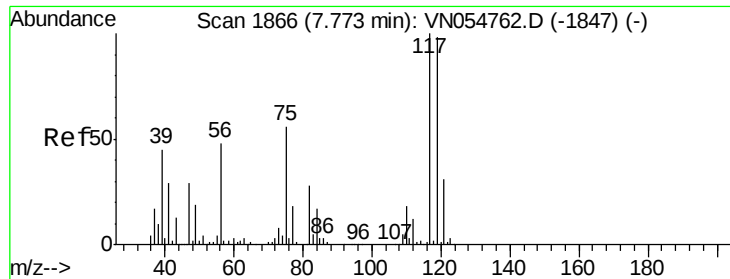
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.312 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN054813.D

Acq: 30 Mar 2019 19:59

Instrument :

MSVOA_N

ClientSampleId :

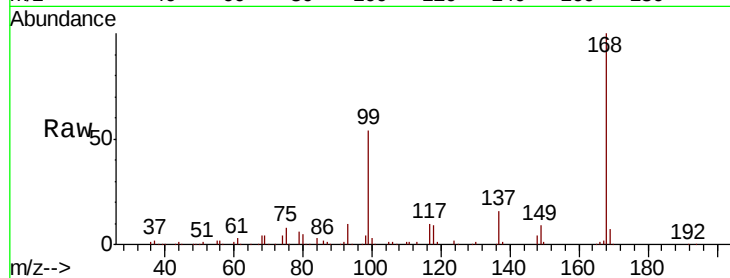
Tot Ion:117 Resp: 50146

Ion Ratio Lower Upper

117 100

119 5.3 76.3 114.5#

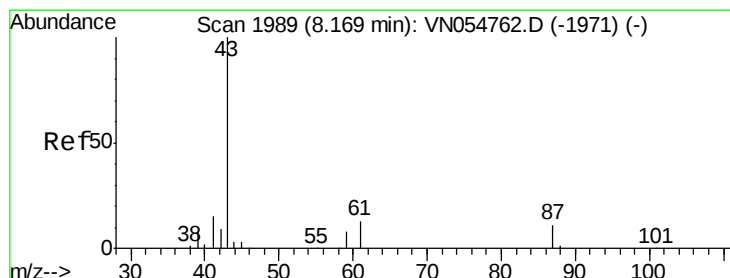
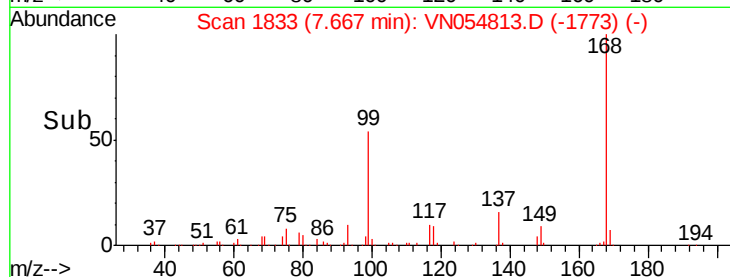
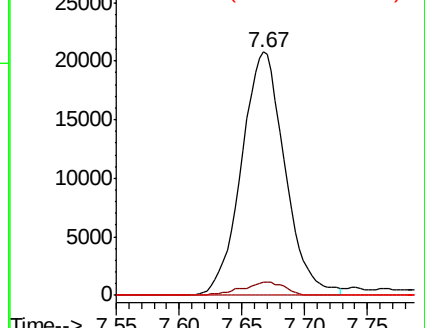
121 0.0 24.6 36.8#



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: 1.742 ug/l

RT: 8.18 min Scan# 1991

Delta R.T. 0.01 min

Lab File: VN054813.D

Acq: 30 Mar 2019 19:59

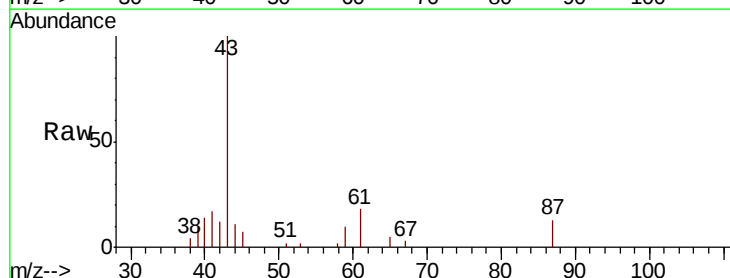
Tgt Ion: 43 Resp: 16980

Ion Ratio Lower Upper

43 100

61 18.4 15.8 23.8

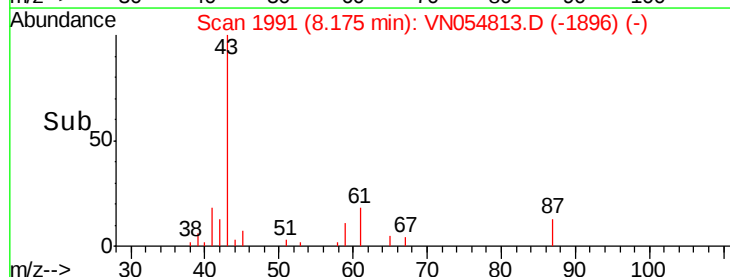
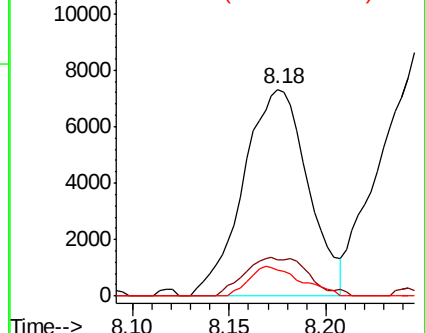
87 11.4 12.0 18.0#

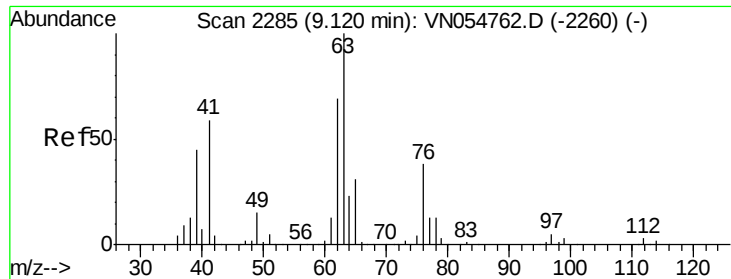


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

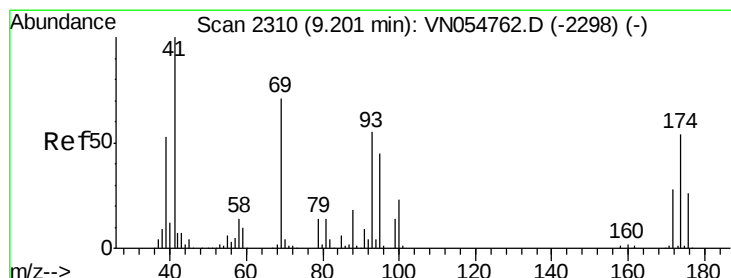
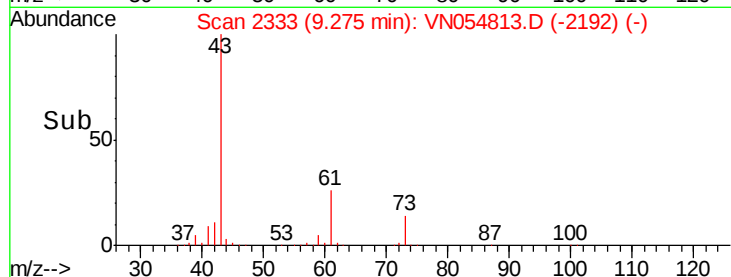
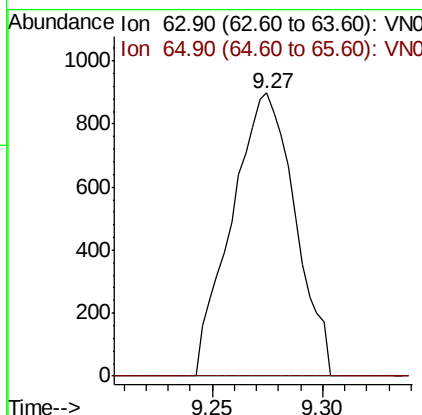
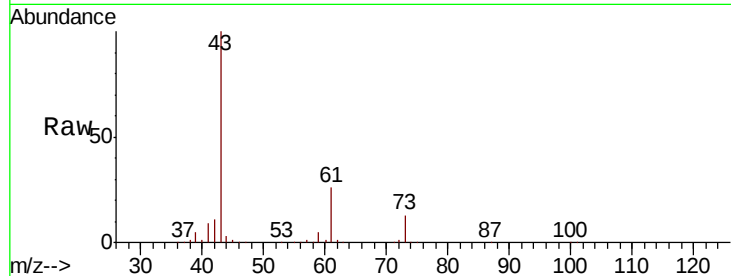




#45
 1,2-Dichloropropane
 Concen: 0.268 ug/l
 RT: 9.27 min Scan# 2333
 Delta R.T. 0.15 min
 Lab File: VN054813.D
 Acq: 30 Mar 2019 19:59

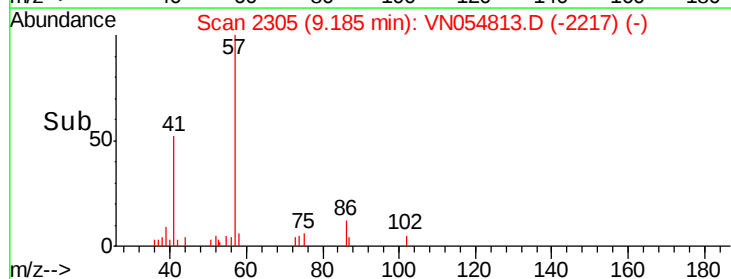
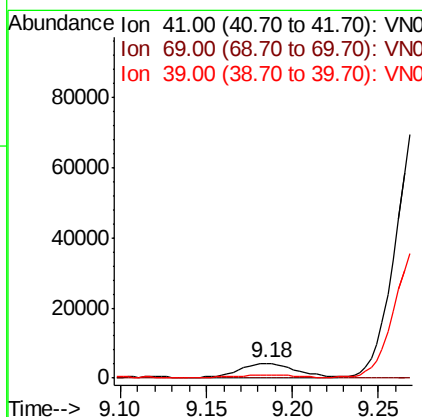
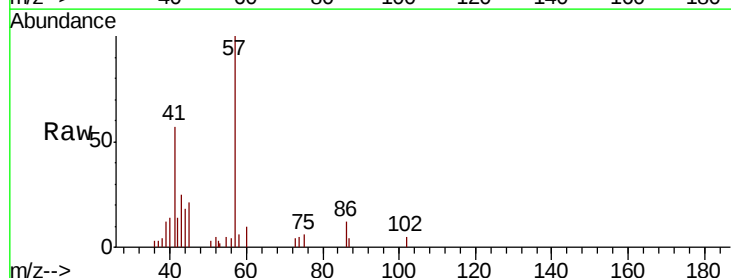
Instrument :
 MSVOA_N
 ClientSampleId :

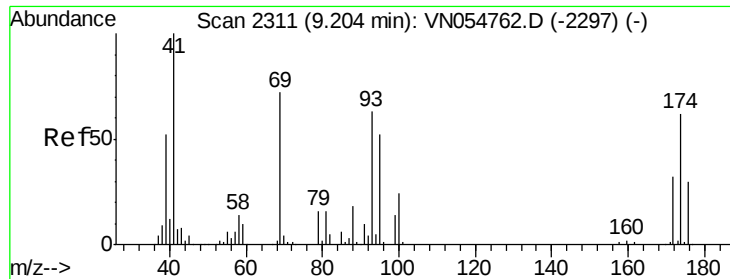
Tot Ion: 63 Resp: 1788
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.6#



#48
 Methyl methacrylate
 Concen: 1.652 ug/l
 RT: 9.18 min Scan# 2305
 Delta R.T. -0.02 min
 Lab File: VN054813.D
 Acq: 30 Mar 2019 19:59

Tgt Ion: 41 Resp: 8729
 Ion Ratio Lower Upper
 41 100
 69 0.0 72.6 108.8#
 39 27.2 47.5 71.3#





#49

1,4-Dioxane

Concen: 0.572 ug/l

RT: 9.28 min Scan# 2334

Delta R.T. 0.07 min

Lab File: VN054813.D

Acq: 30 Mar 2019 19:59

Instrument :
MSVOA_N
ClientSampleId :

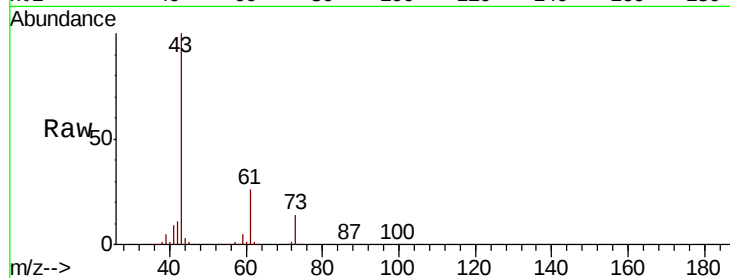
Tot Ion: 88 Resp: 30

Ion Ratio Lower Upper

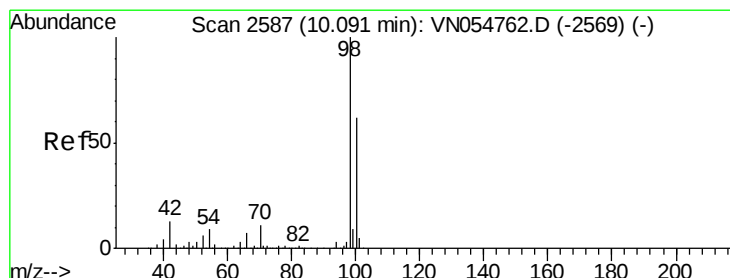
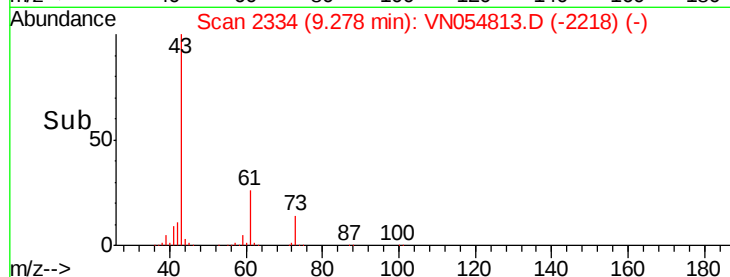
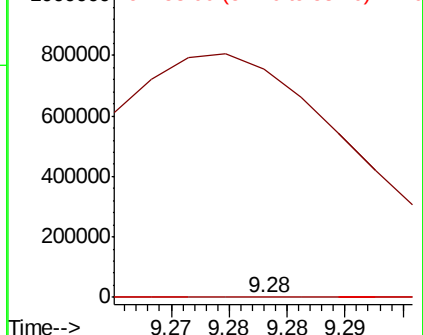
88 100

43 5074906.7 24.1 36.1#

58 20660.0 50.8 76.2#



Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 47.657 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054813.D

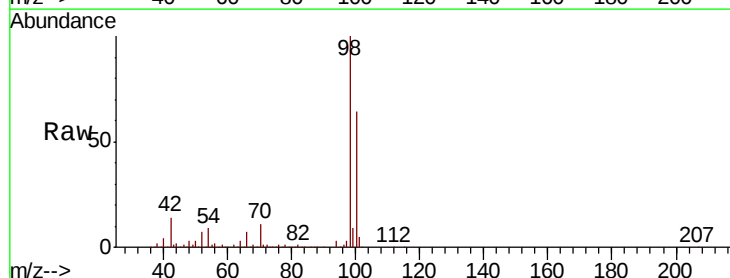
Acq: 30 Mar 2019 19:59

Tgt Ion: 98 Resp: 1036870

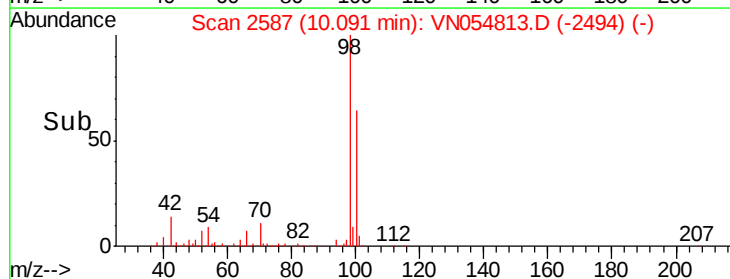
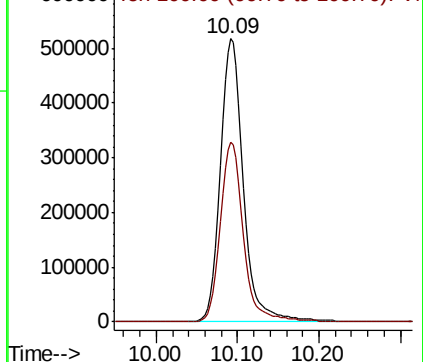
Ion Ratio Lower Upper

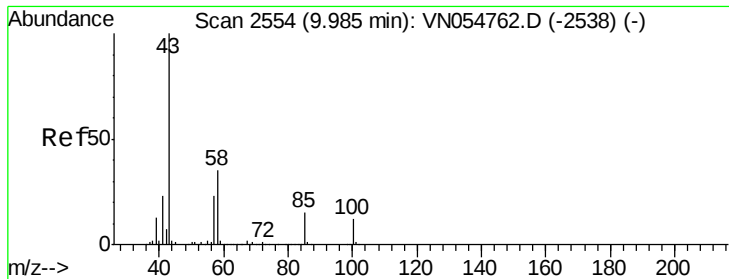
98 100

100 63.7 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: 1.921 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN054813.D

Acq: 30 Mar 2019 19:59

Instrument :

MSVOA_N

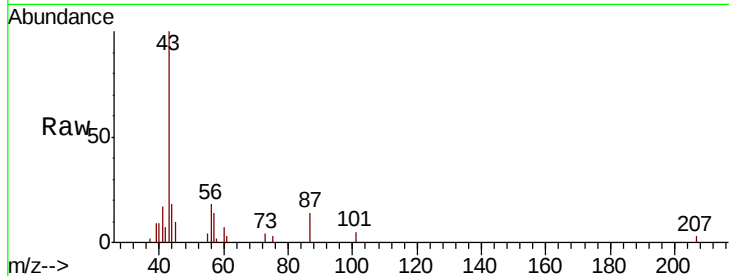
ClientSampled :

Tot Ion: 43 Resp: 10524

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

8000

6000

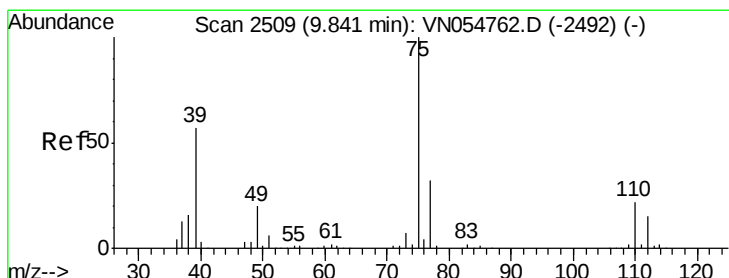
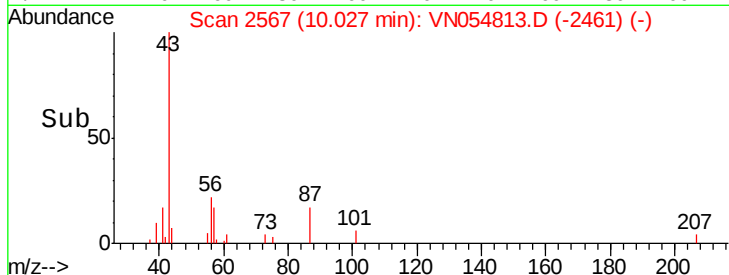
4000

2000

0

10.00 10.05

Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.299 ug/l

RT: 9.91 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN054813.D

Acq: 30 Mar 2019 19:59

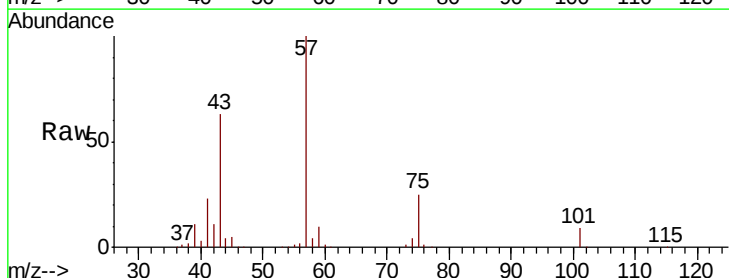
Tgt Ion: 75 Resp: 55224

Ion Ratio Lower Upper

75 100

77 0.8 25.4 38.0#

39 42.6 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

40000

30000

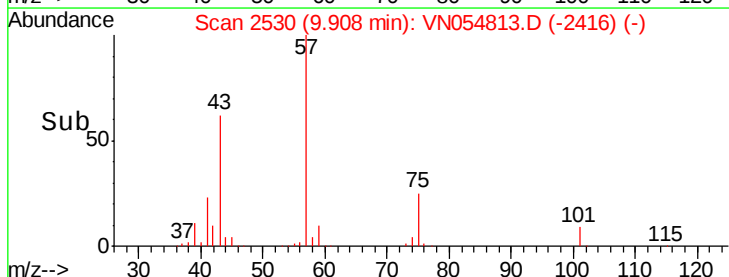
20000

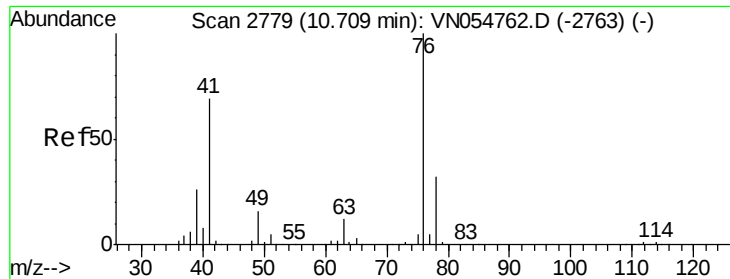
10000

0

9.85 9.90 9.95

Time-->





#57

1,3-Dichloropropane

Concen: 1.218 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN054813.D

Acq: 30 Mar 2019 19:59

Instrument :

MSVOA_N

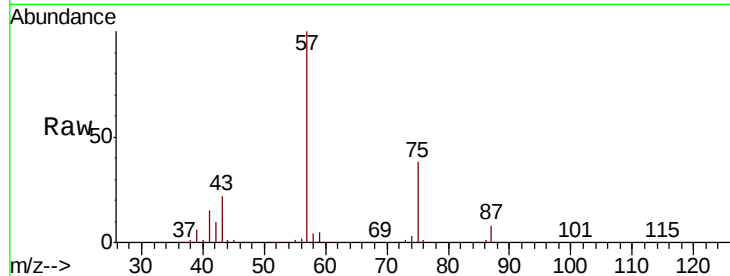
ClientSampleId :

Tot Ion: 76 Resp: 10846

Ion Ratio Lower Upper

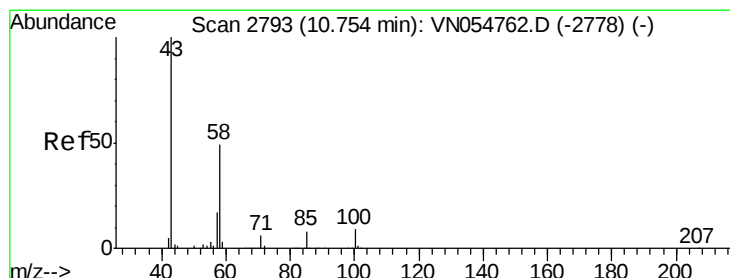
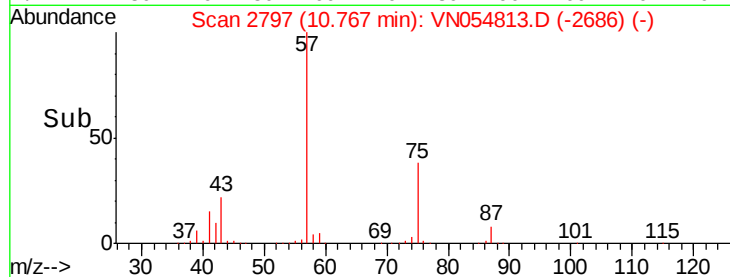
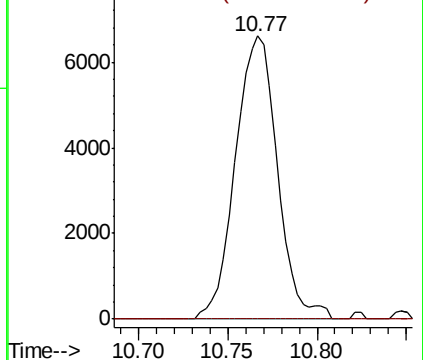
76 100

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: 50.758 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN054813.D

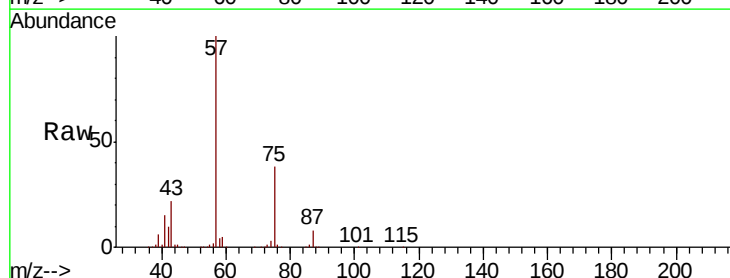
Acq: 30 Mar 2019 19:59

Tgt Ion: 43 Resp: 178044

Ion Ratio Lower Upper

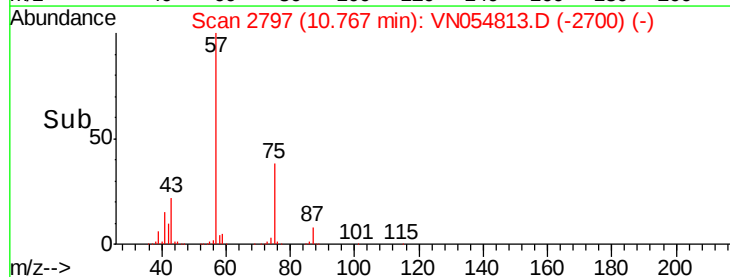
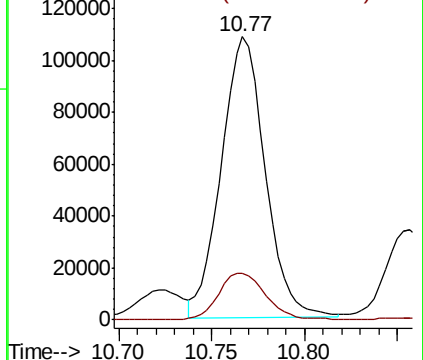
43 100

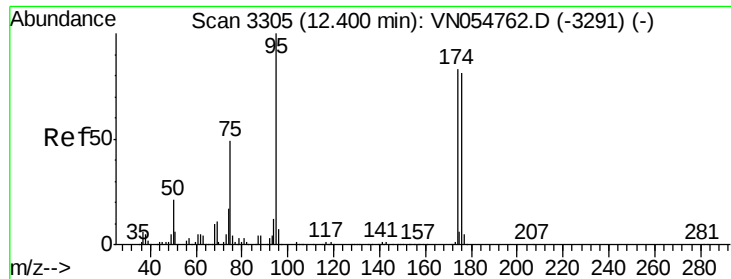
58 18.2 28.0 83.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 43.528 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054813.D

Acq: 30 Mar 2019 19:59

Instrument :

MSVOA_N

ClientSampled :

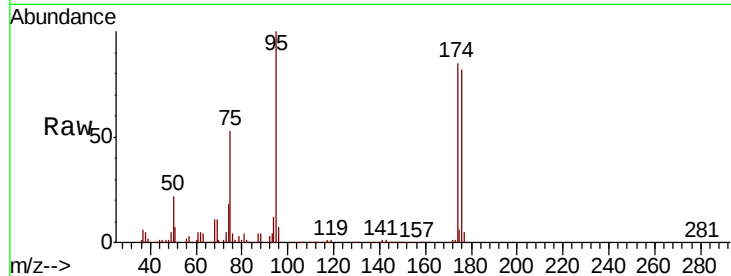
Tot Ion: 95 Resp: 314959

Ion Ratio Lower Upper

95 100

174 84.3 0.0 191.0

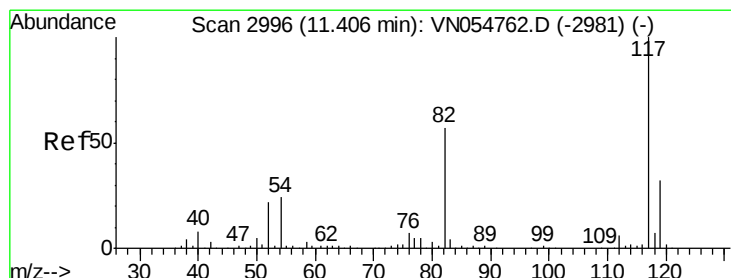
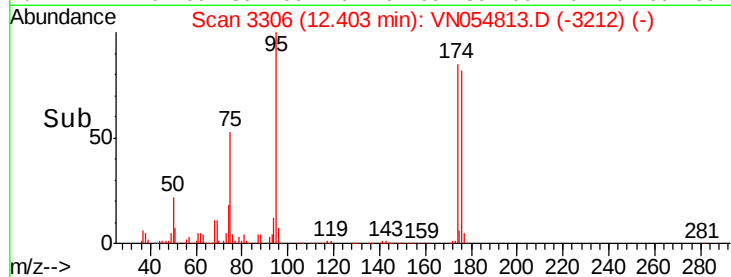
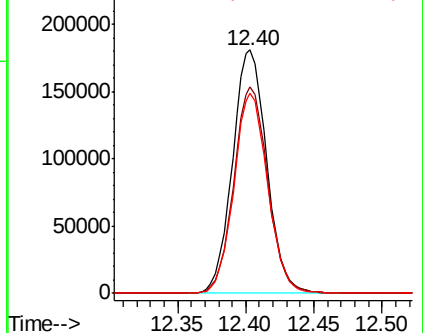
176 81.4 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054762.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN054762.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN054762.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN054813.D

Acq: 30 Mar 2019 19:59

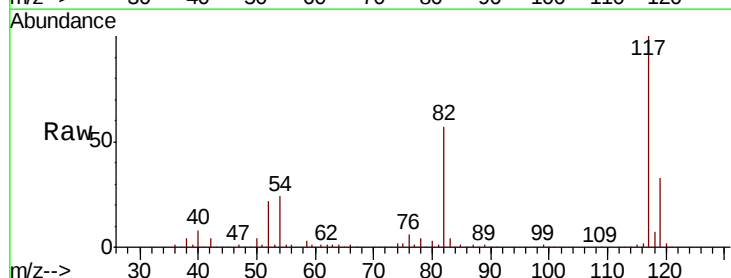
Tgt Ion: 117 Resp: 729151

Ion Ratio Lower Upper

117 100

82 56.7 40.0 60.0

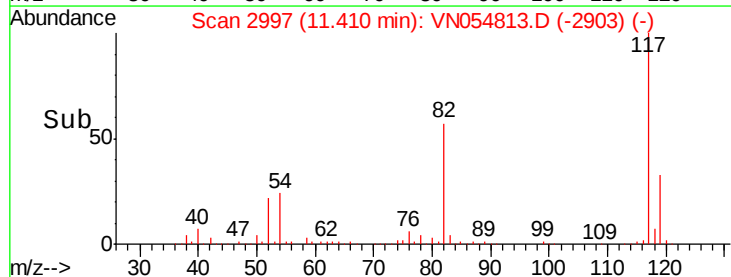
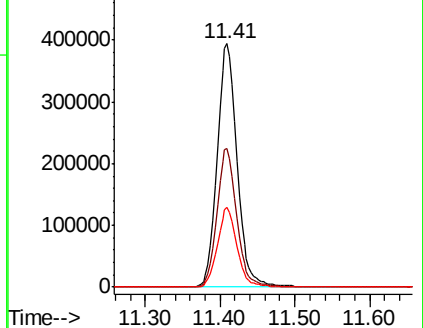
119 32.5 25.8 38.6

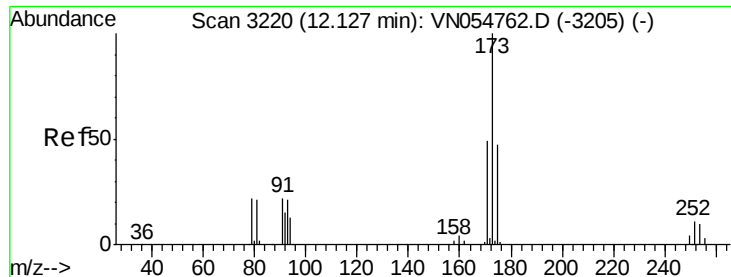


Abundance Ion 116.90 (116.60 to 117.60): VN054762.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN054762.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN054762.D (-2981) (-)

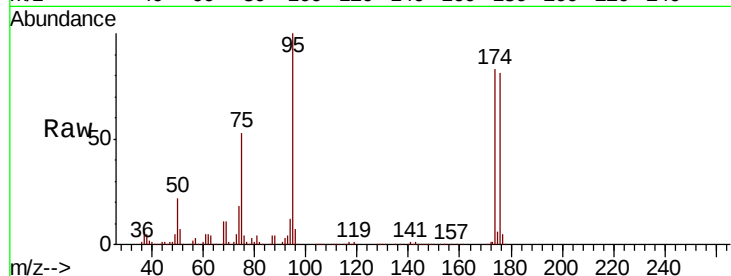




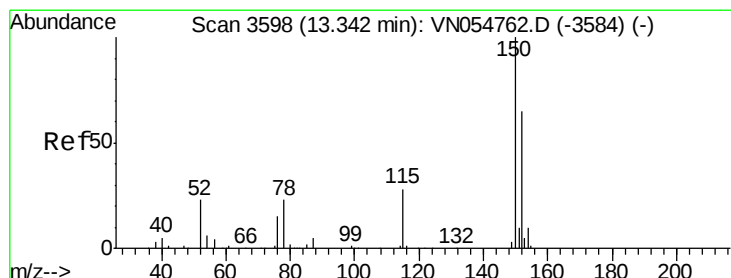
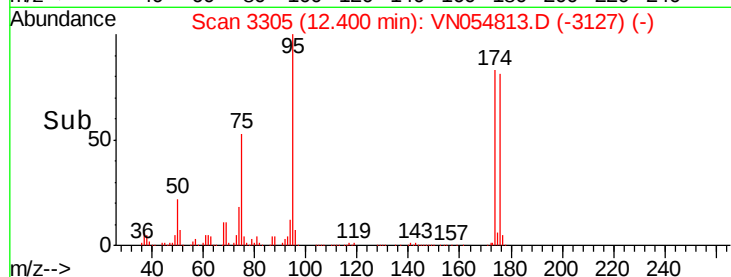
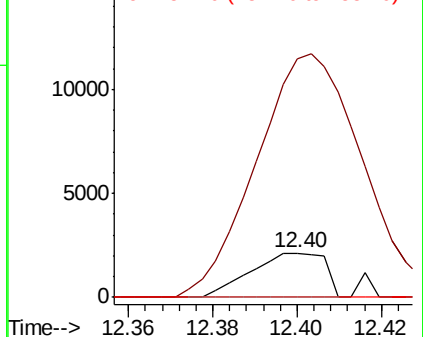
#71
Bromoform
Concen: 0.830 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN054813.D
Acq: 30 Mar 2019 19:59

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:173 Resp: 2598
Ion Ratio Lower Upper
173 100
175 658.4 24.4 73.2#
254 0.0 0.1 0.1#

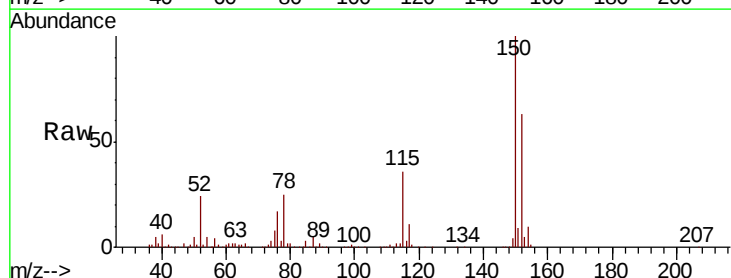


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

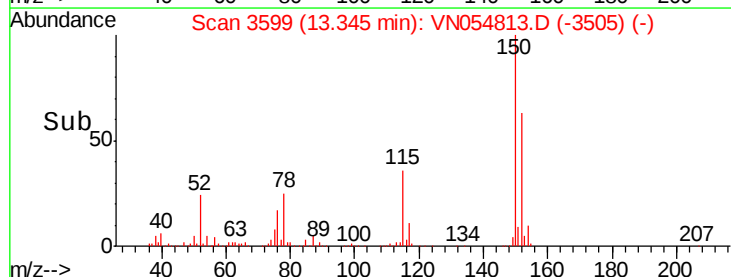
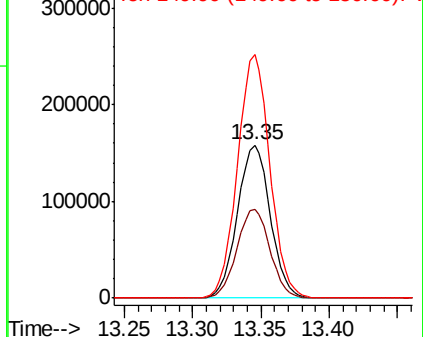


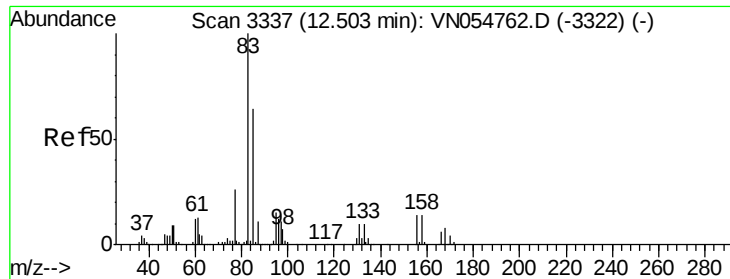
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN054813.D
Acq: 30 Mar 2019 19:59

Tgt Ion:152 Resp: 264228
Ion Ratio Lower Upper
152 100
115 58.7 27.2 81.6
150 157.3 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: 12.40 min Scan# 3306

Delta R.T. -0.10 min

Lab File: VN054813.D

Acq: 30 Mar 2019 19:59

Instrument :

MSVOA_N

ClientSampleId :

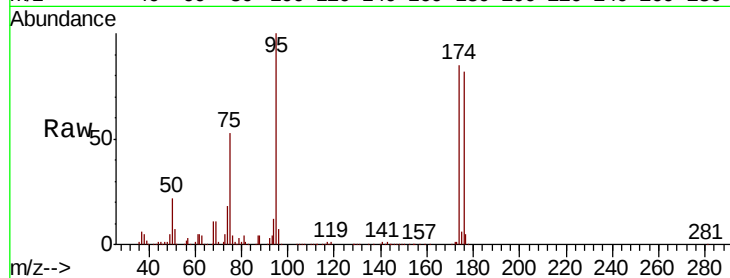
Tot Ion: 83 Resp: 61

Ion Ratio Lower Upper

83 100

131 701.6 5.8 17.4#

85 0.0 32.2 96.6#

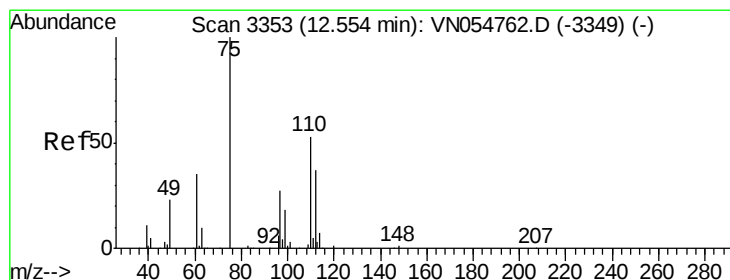
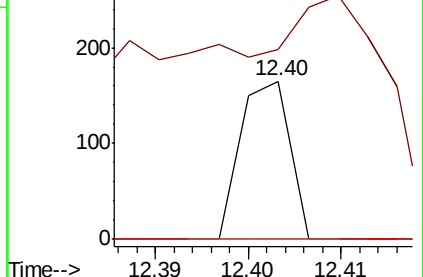
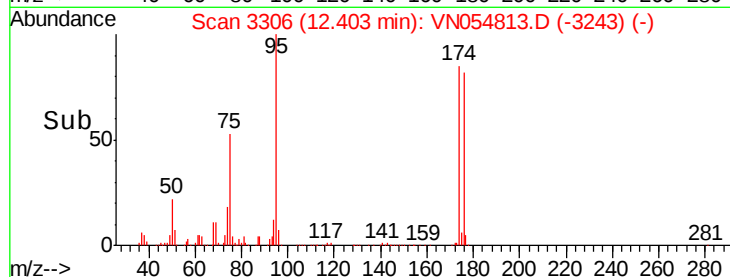


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0

Time-->



#76

1,2,3-Trichloropropane

Concen: 36.098 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN054813.D

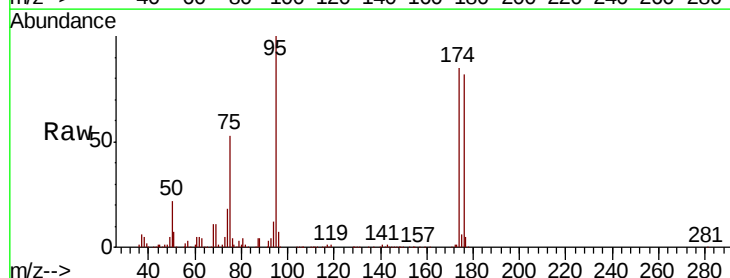
Acq: 30 Mar 2019 19:59

Tgt Ion: 75 Resp: 165697

Ion Ratio Lower Upper

75 100

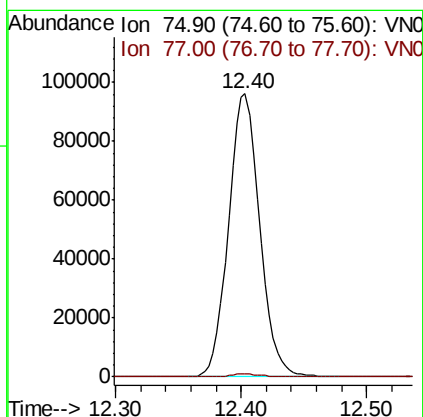
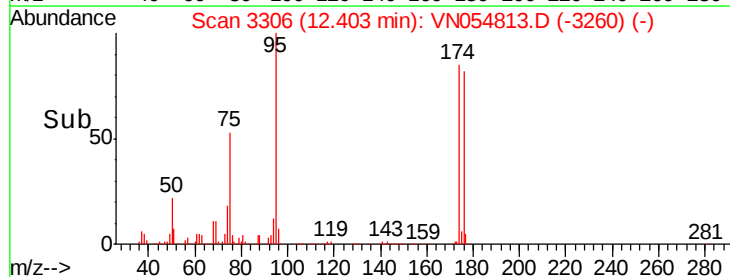
77 1.0 0.0 0.0#

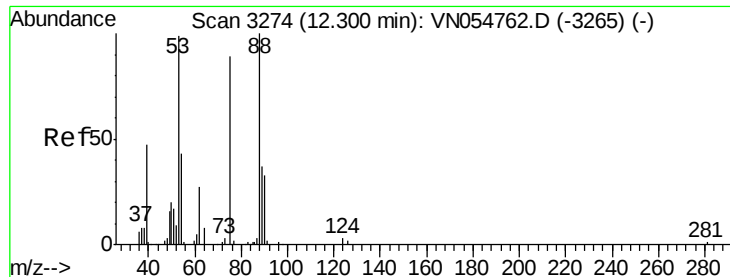


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

Time-->

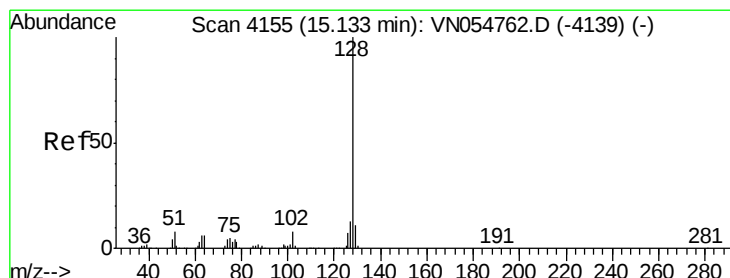
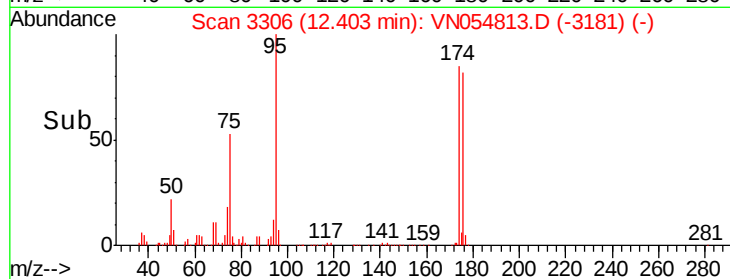
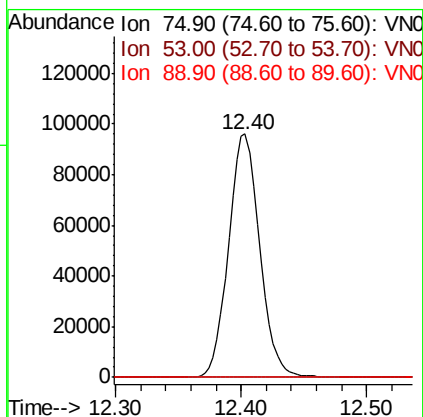
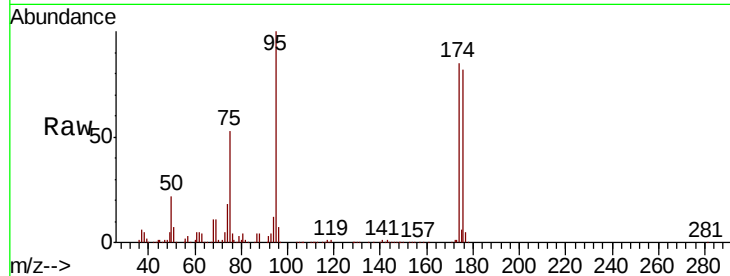




#81
trans-1,4-Dichloro-2-butene
Concen: 140.410 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN054813.D
Acq: 30 Mar 2019 19:59

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 75 Resp: 165697
Ion Ratio Lower Upper
75 100
53 0.1 76.2 114.2#
89 0.0 39.2 58.8#



#95
Naphthalene
Concen: 0.412 ug/l
RT: 15.14 min Scan# 4157
Delta R.T. 0.01 min
Lab File: VN054813.D
Acq: 30 Mar 2019 19:59

Tgt Ion:128 Resp: 3921
Ion Ratio Lower Upper
128 100
127 10.5 10.1 15.1
129 5.1 8.7 13.1#

