

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031119\
 Data File : VN054153.D
 Acq On : 11 Mar 2019 20:37
 Operator : JC/SP
 Sample : K1692-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CL-02-030819-D

Quant Time: Mar 12 03:25:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031119W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 12 00:55:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1588784	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2606142	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2589504	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	1097788	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	878802	51.72	ug/l	0.00
Spiked Amount			Recovery	=	103.44%	
35) Dibromofluoromethane	7.59	113	839324	49.92	ug/l	0.00
Spiked Amount			Recovery	=	99.84%	
50) Toluene-d8	10.09	98	3194239	51.57	ug/l	0.00
Spiked Amount			Recovery	=	103.14%	
62) 4-Bromofluorobenzene	12.40	95	1170922	53.99	ug/l	0.00
Spiked Amount			Recovery	=	107.98%	

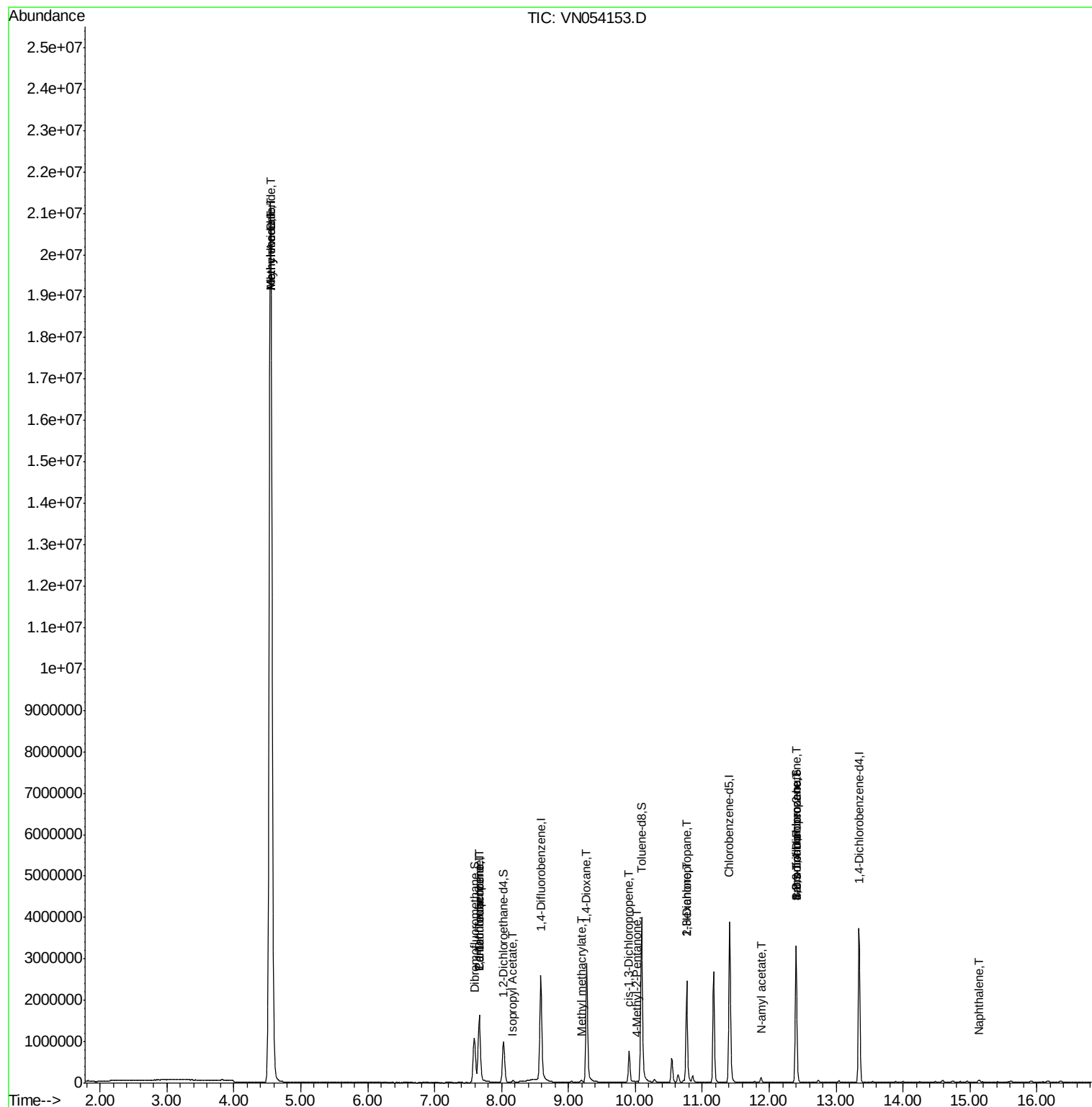
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) Allyl chloride	4.54	41	484865	22.219	ug/l #	28
16) Acetone	3.82	43	13085	Below Cal		97
18) Methyl Acetate	4.54	43	53031	4.856	ug/l	91
20) Methylene Chloride	4.55	84	16881674	1104.748	ug/l	90
31) Cyclohexane	7.66	56	24831	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	94661	4.173	ug/l #	49
38) Carbon Tetrachloride	7.67	117	127909	5.087	ug/l #	15
43) Isopropyl Acetate	8.17	43	53369	2.183	ug/l #	90
48) Methyl methacrylate	9.18	41	17179	1.307	ug/l #	13
49) 1,4-Dioxane	9.26	88	167	0.979	ug/l #	22
51) 4-Methyl-2-Pentanone	10.03	43	19289	1.471	ug/l #	37
54) cis-1,3-Dichloropropene	9.90	75	153205	5.720	ug/l #	60
57) 1,3-Dichloropropane	10.77	76	27783	1.091	ug/l #	43
59) 2-Hexanone	10.77	43	376808	43.295	ug/l #	50
71) Bromoform	12.40	173	7222	0.505	ug/l #	1
74) N-amyl acetate	11.88	43	37863	1.904	ug/l #	53
76) 1,2,3-Trichloropropane	12.40	75	566941	36.571	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	566941	108.861	ug/l #	11
95) Naphthalene	15.13	128	46763	1.140	ug/l	98

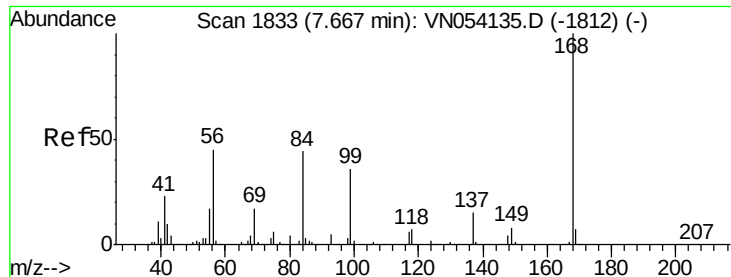
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031119\
Data File : VN054153.D
Acq On : 11 Mar 2019 20:37
Operator : JC/SP
Sample : K1692-08
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
CL-02-030819-D

Quant Time: Mar 12 03:25:43 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031119W.M
Quant Title : SW846 8260
QLast Update : Tue Mar 12 00:55:17 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: VN054153.D

Acq: 11 Mar 2019 20:37

Instrument :

MSVOA_N

ClientSampleId :

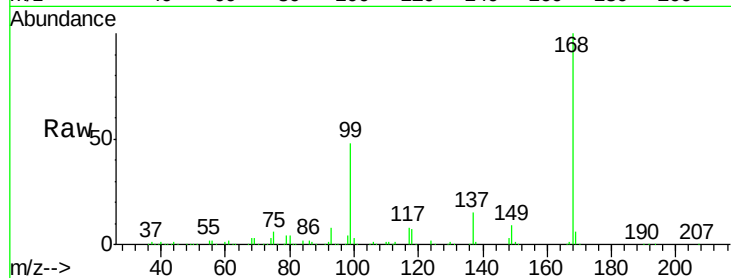
CL-02-030819-D

Tot Ion:168 Resp: 1588784

Ion Ratio Lower Upper

168 100

99 47.6 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

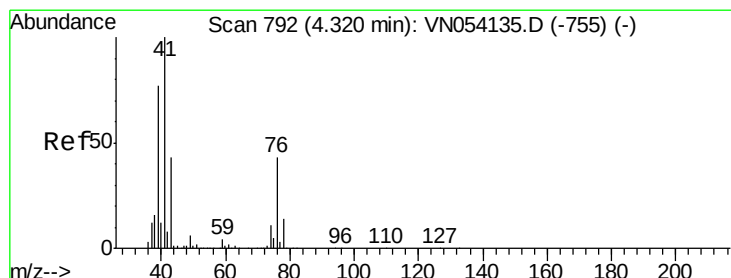
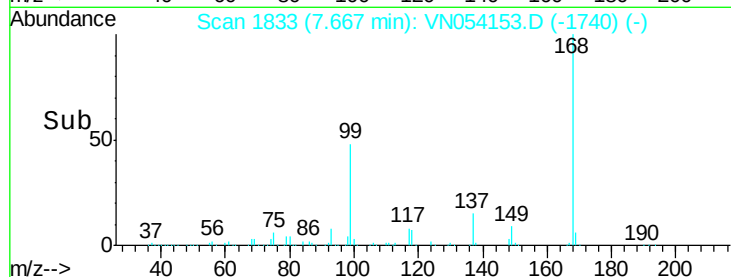
600000

400000

200000

0

Time--> 7.50 7.60 7.70 7.80



#14

Allyl chloride

Concen: 22.219 ug/l

RT: 4.54 min Scan# 862

Delta R.T. 0.23 min

Lab File: VN054153.D

Acq: 11 Mar 2019 20:37

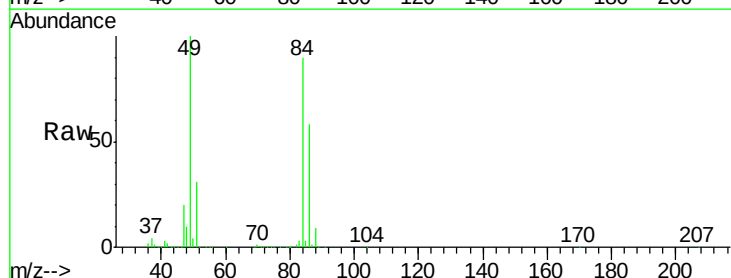
Tgt Ion: 41 Resp: 484865

Ion Ratio Lower Upper

41 100

39 0.5 49.3 73.9#

76 0.0 26.5 39.7#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO

200000

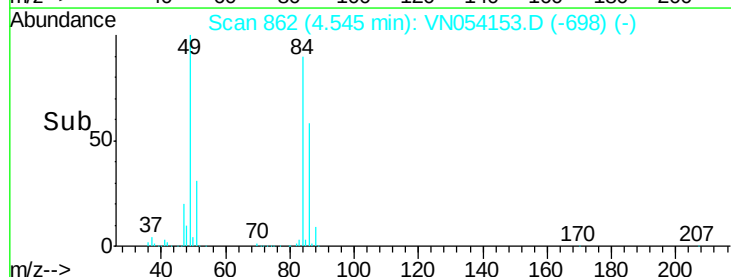
150000

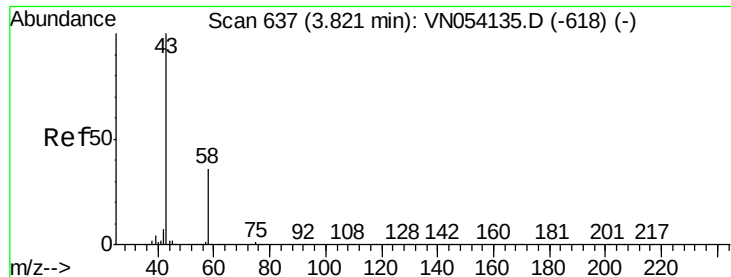
100000

50000

0

Time--> 4.40 4.50 4.60





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN054153.D

Acq: 11 Mar 2019 20:37

Instrument :

MSVOA_N

ClientSampleId :

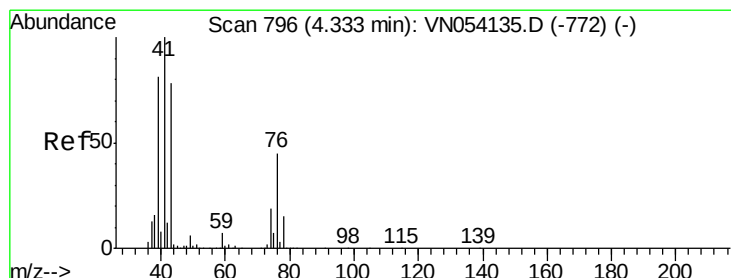
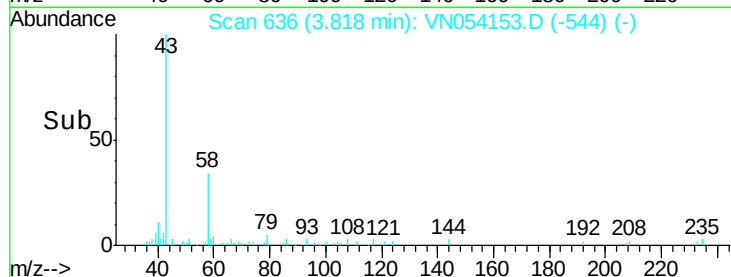
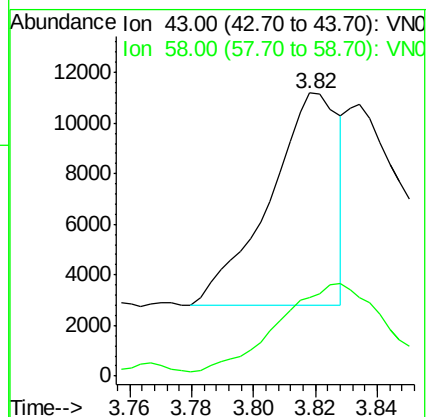
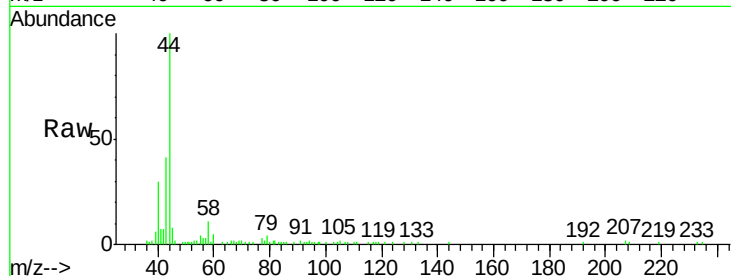
CL-02-030819-D

Tot Ion: 43 Resp: 13085

Ion Ratio Lower Upper

43 100

58 34.5 26.5 39.7



#18

Methyl Acetate

Concen: 4.856 ug/l

RT: 4.54 min Scan# 862

Delta R.T. 0.21 min

Lab File: VN054153.D

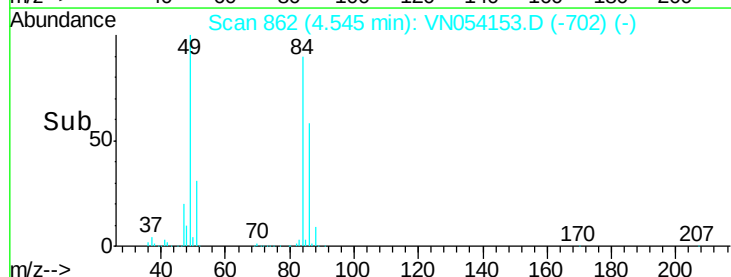
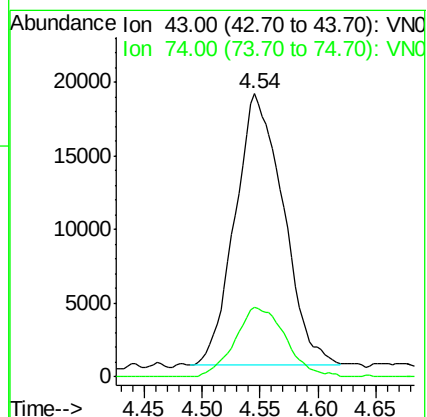
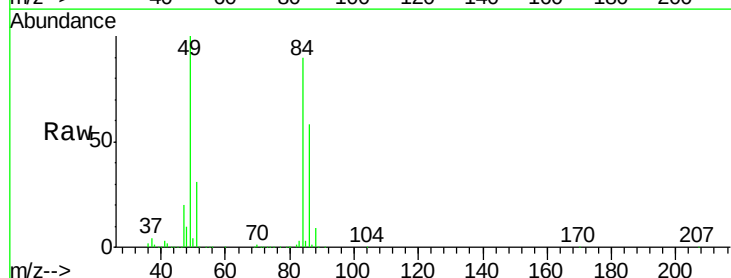
Acq: 11 Mar 2019 20:37

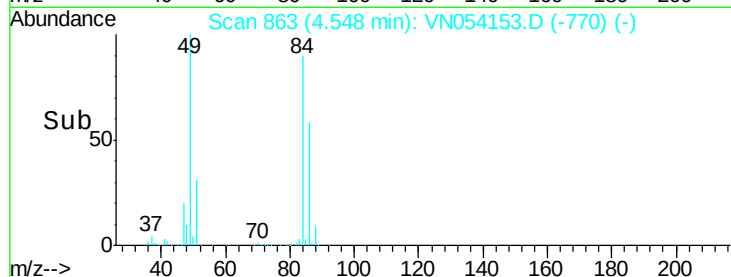
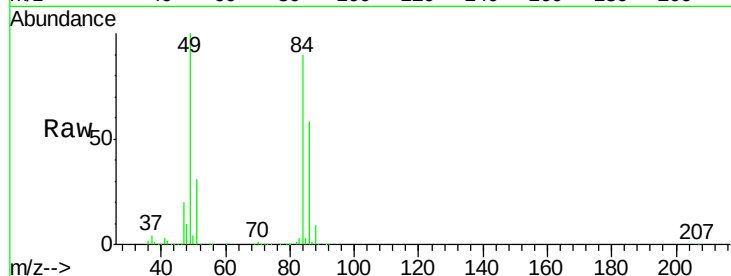
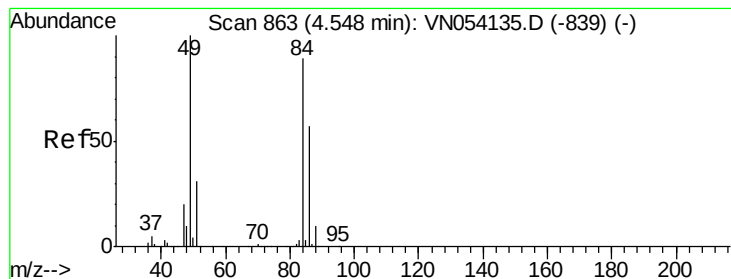
Tgt Ion: 43 Resp: 53031

Ion Ratio Lower Upper

43 100

74 27.0 18.2 27.2





#20

Methylene Chloride

Concen: 1104.748 ug/l

RT: 4.55 min Scan# 863

Delta R.T. 0.00 min

Lab File: VN054135.D

Acq: 11 Mar 2019 20:37

Instrument :

MSVOA_N

ClientSampleId :

CL-02-030819-D

Tot Ion: 84 Resp:16881674

Ion	Ratio	Lower	Upper
84	100		
49	111.1	101.8	152.8
51	34.2	31.1	46.7
86	64.6	49.7	74.5

Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0

8000000

6000000

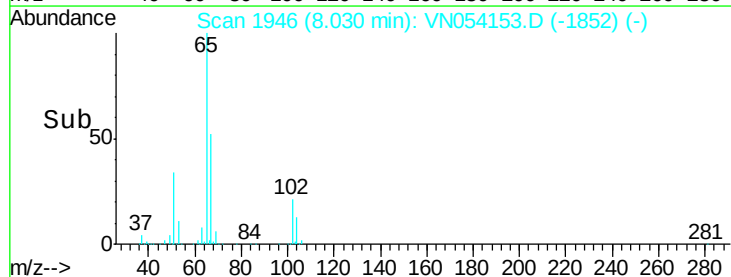
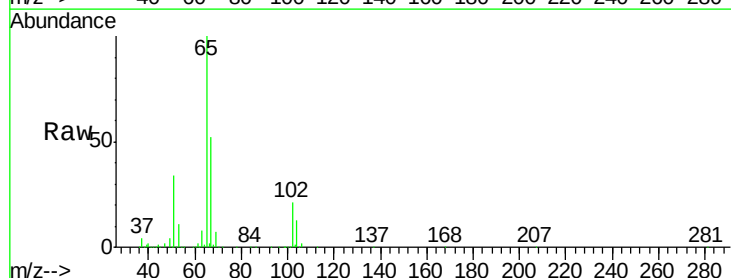
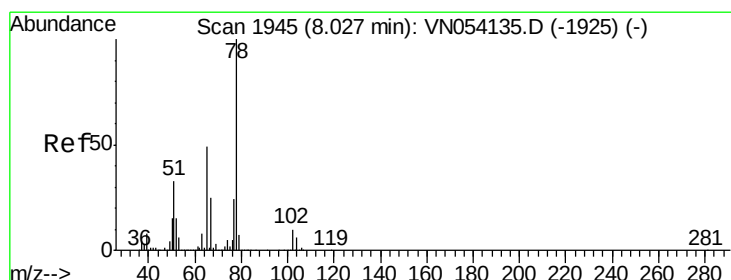
4000000

2000000

0

Time-->

4.40 4.60 4.80



#33

1,2-Dichloroethane-d4

Concen: 51.722 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN054135.D

Acq: 11 Mar 2019 20:37

Tgt Ion: 65 Resp: 878802

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	109.6

Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

400000

300000

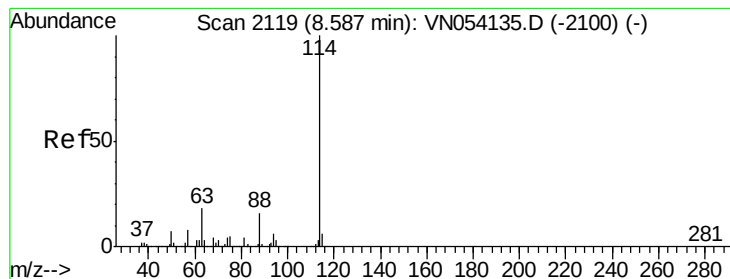
200000

100000

0

Time-->

7.90 8.00 8.10 8.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN054153.D

Acq: 11 Mar 2019 20:37

Instrument :

MSVOA_N

ClientSampleId :

CL-02-030819-D

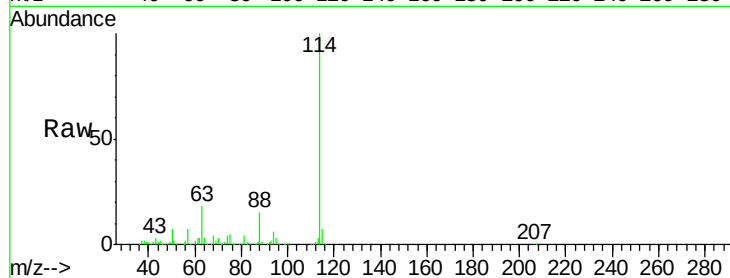
Tot Ion:114 Resp: 2606142

Ion Ratio Lower Upper

114 100

63 18.2 0.0 42.6

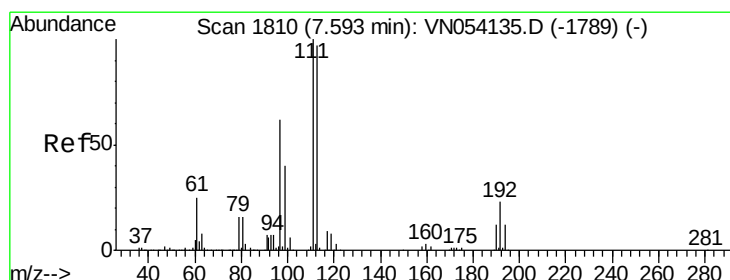
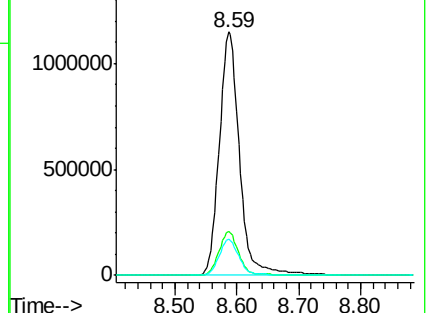
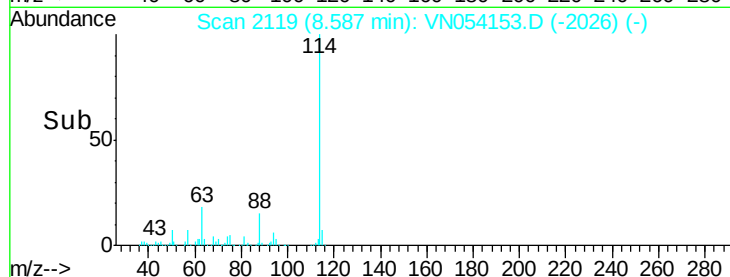
88 14.7 0.0 31.8



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: 49.917 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054153.D

Acq: 11 Mar 2019 20:37

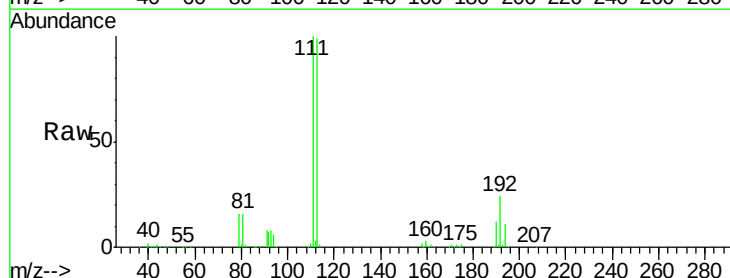
Tgt Ion:113 Resp: 839324

Ion Ratio Lower Upper

113 100

111 100.4 82.1 123.1

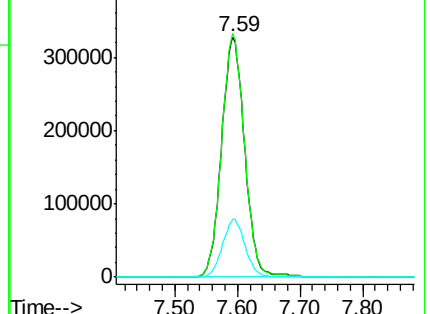
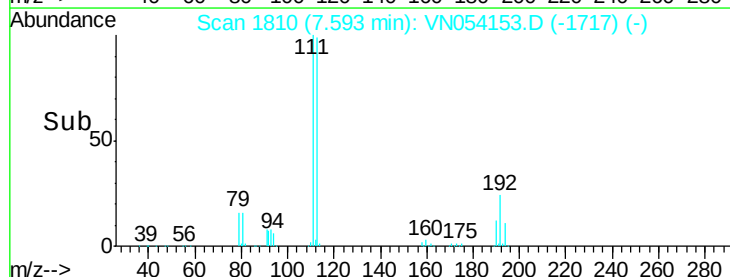
192 23.5 17.4 26.0

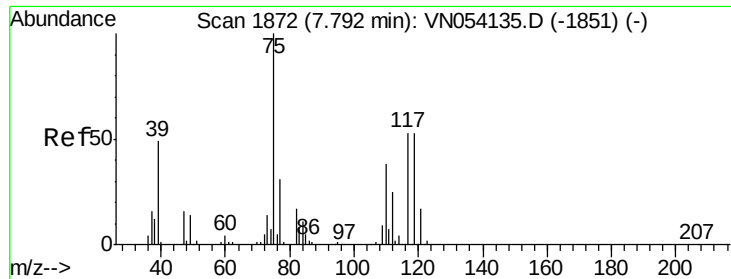


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

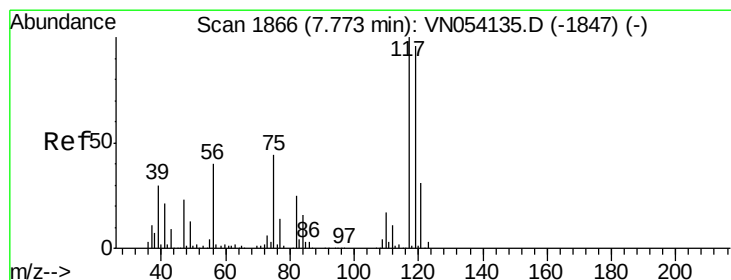
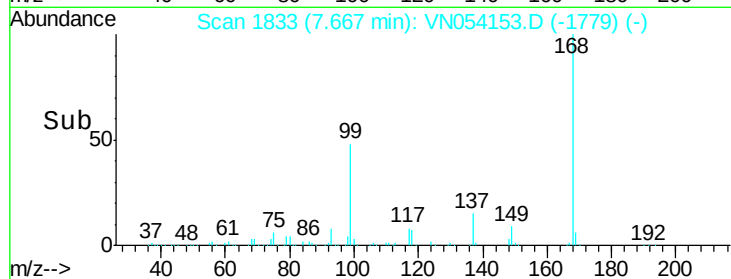
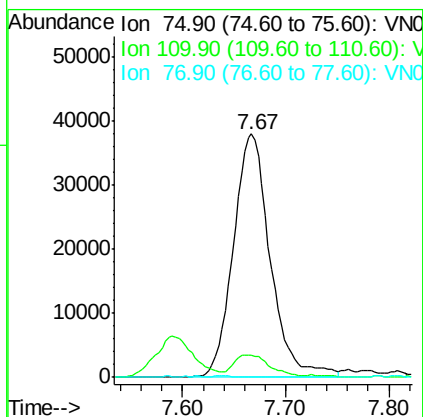
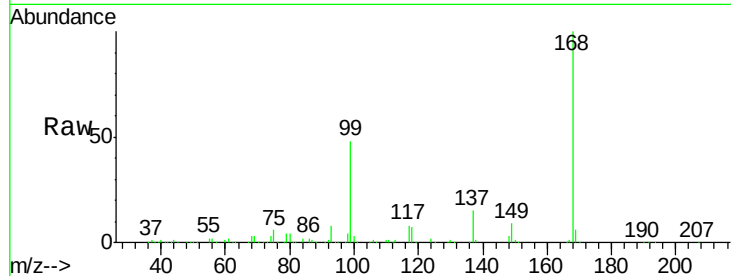




#36
 1,1-Dichloropropene
 Concen: 4.173 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN054153.D
 Acq: 11 Mar 2019 20:37

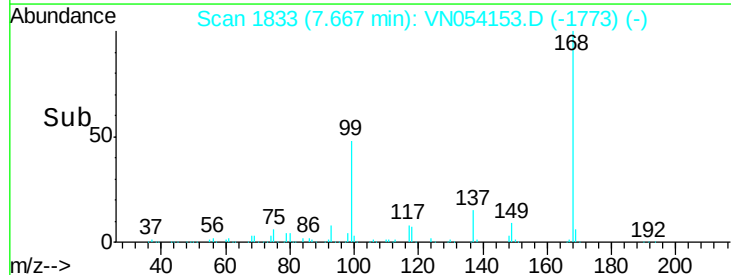
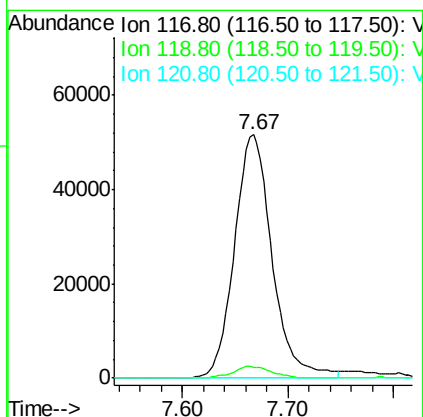
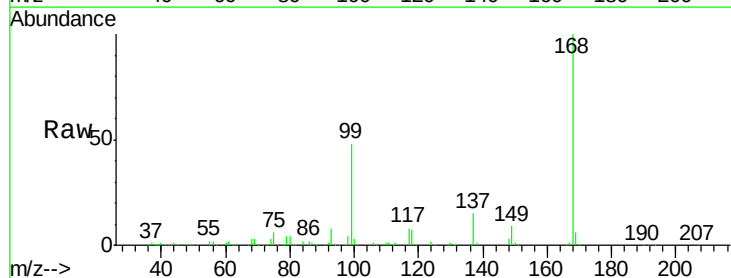
Instrument :
 MSVOA_N
 ClientSampleId :
 CL-02-030819-D

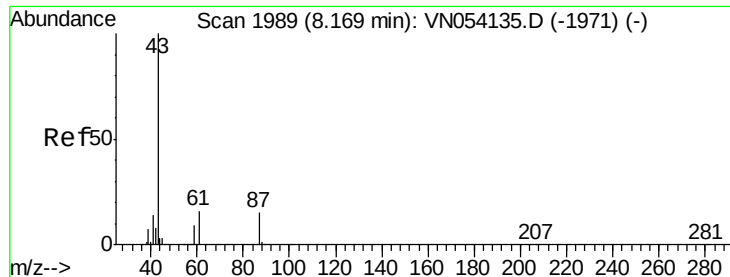
Tot Ion	75	Resp	94661
Ion Ratio	100	Lower	Upper
75	100		
110	9.3	18.0	54.0#
77	0.0	25.3	37.9#



#38
 Carbon Tetrachloride
 Concen: 5.087 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN054153.D
 Acq: 11 Mar 2019 20:37

Tgt Ion	117	Resp	127909
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	4.5	77.0	115.6#
121	0.0	24.3	36.5#





#43

Isopropyl Acetate

Concen: 2.183 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054153.D

Acq: 11 Mar 2019 20:37

Instrument :

MSVOA_N

ClientSampleId :

CL-02-030819-D

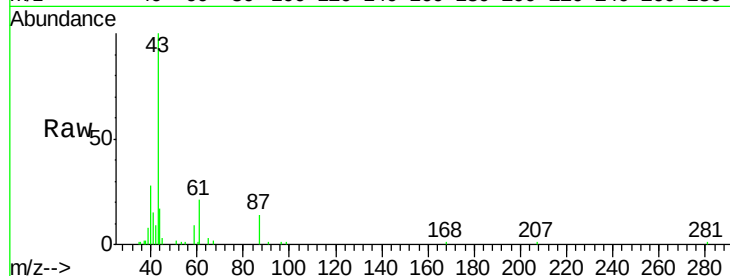
Tot Ion: 43 Resp: 53369

Ion Ratio Lower Upper

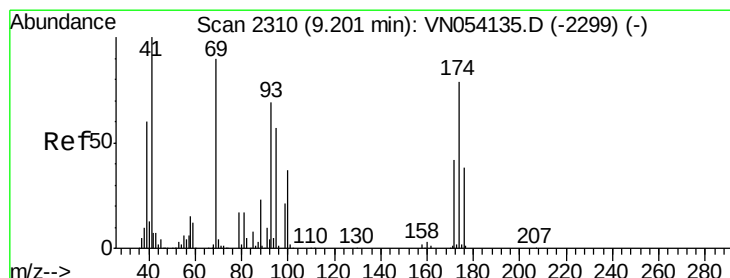
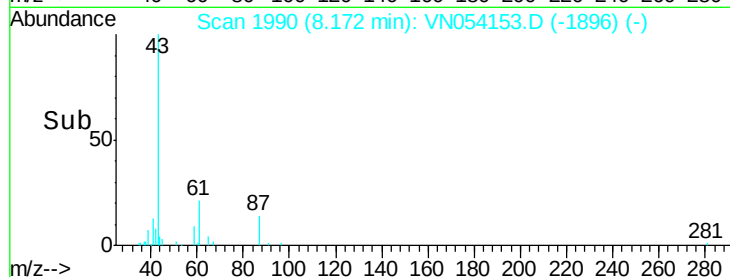
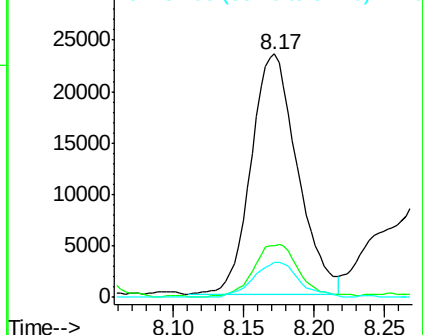
43 100

61 21.6 22.5 33.7#

87 14.5 10.1 15.1



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



#48

Methyl methacrylate

Concen: 1.307 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. -0.02 min

Lab File: VN054153.D

Acq: 11 Mar 2019 20:37

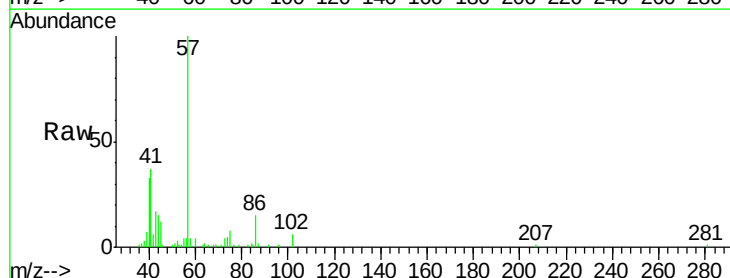
Tgt Ion: 41 Resp: 17179

Ion Ratio Lower Upper

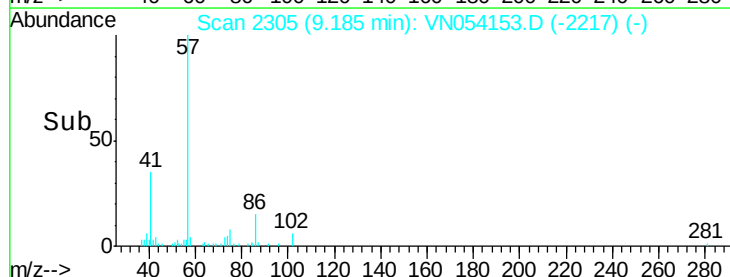
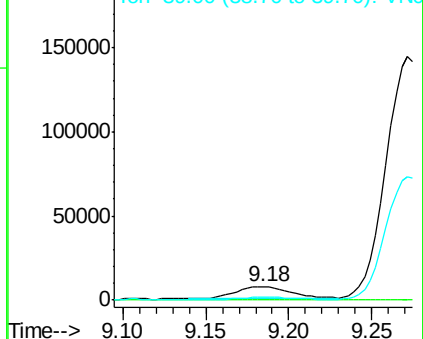
41 100

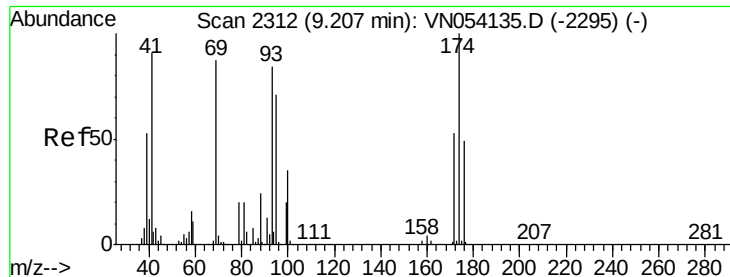
69 0.4 71.0 106.4#

39 0.0 43.7 65.5#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

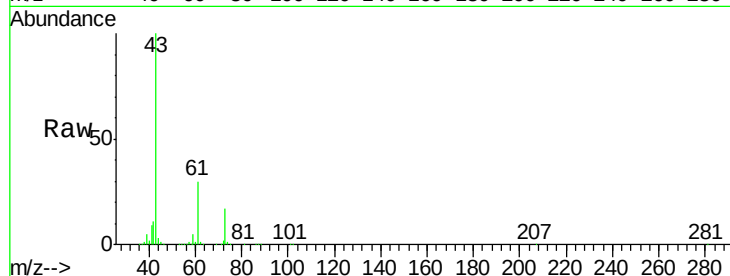




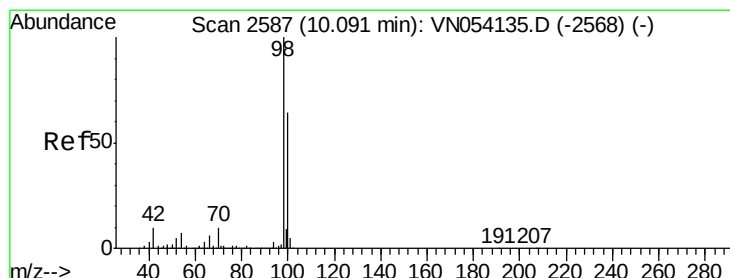
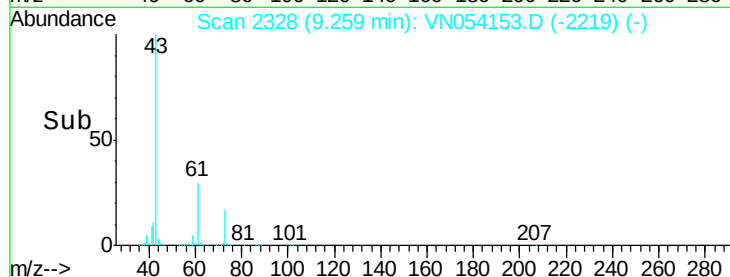
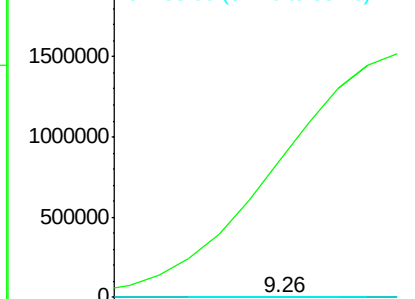
#49
1,4-Dioxane
Concen: 0.979 ug/l
RT: 9.26 min Scan# 2328
Delta R.T. 0.05 min
Lab File: VN054153.D
Acq: 11 Mar 2019 20:37

Instrument :
MSVOA_N
ClientSampleId :
CL-02-030819-D

Tot Ion: 88 Resp: 167
Ion Ratio Lower Upper
88 100
43 0.0 25.5 38.3#
58 0.0 58.3 87.5#

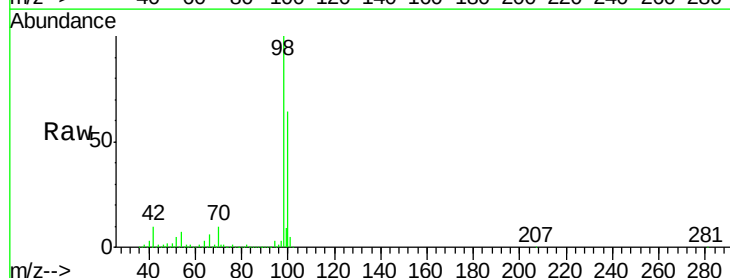


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

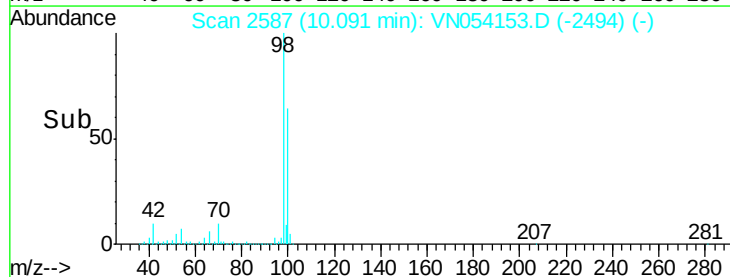
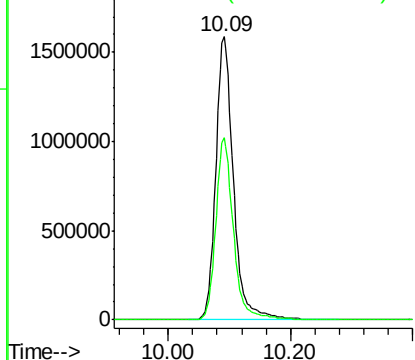


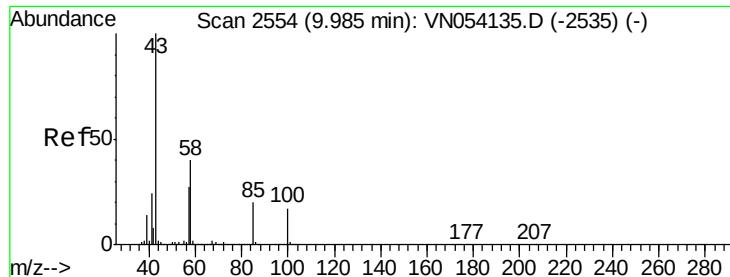
#50
Toluene-d8
Concen: 51.567 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN054153.D
Acq: 11 Mar 2019 20:37

Tgt Ion: 98 Resp: 3194239
Ion Ratio Lower Upper
98 100
100 64.1 51.7 77.5



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: 1.471 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN054153.D

Acq: 11 Mar 2019 20:37

Instrument :

MSVOA_N

ClientSampleId :

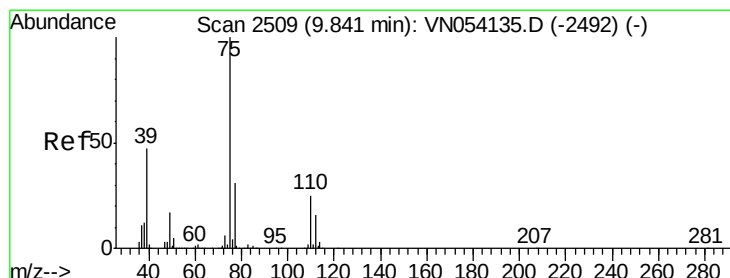
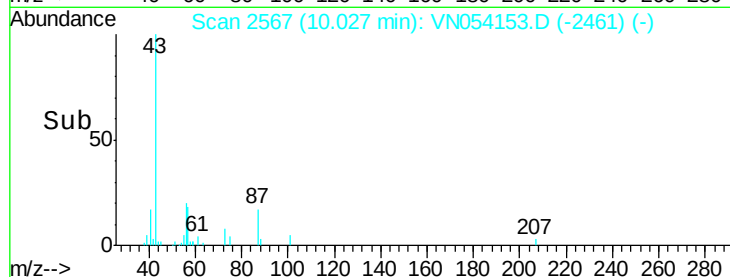
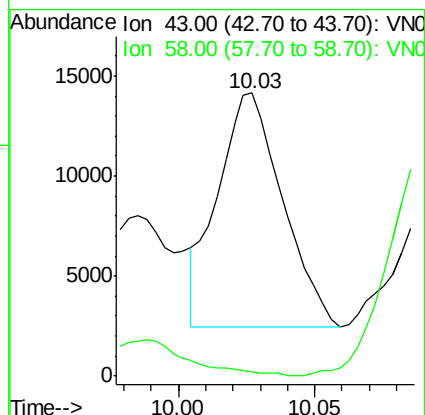
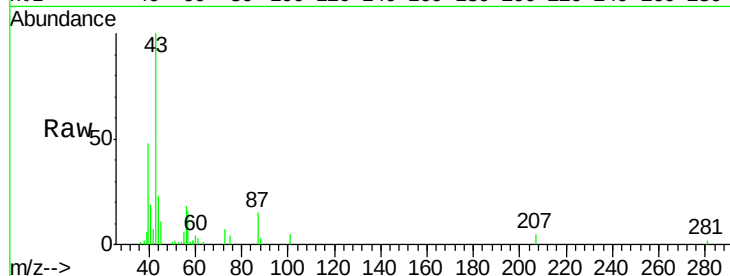
CL-02-030819-D

Tot Ion: 43 Resp: 19289

Ion Ratio Lower Upper

43 100

58 0.0 30.8 46.2#



#54

cis-1,3-Dichloropropene

Concen: 5.720 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054153.D

Acq: 11 Mar 2019 20:37

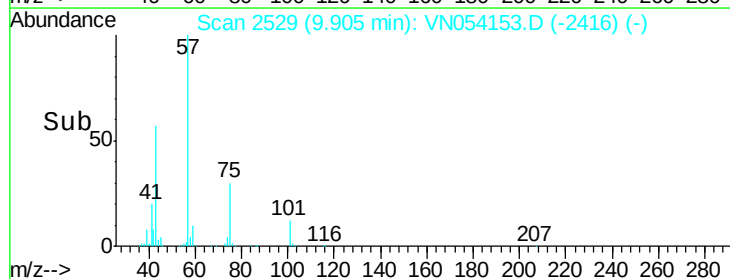
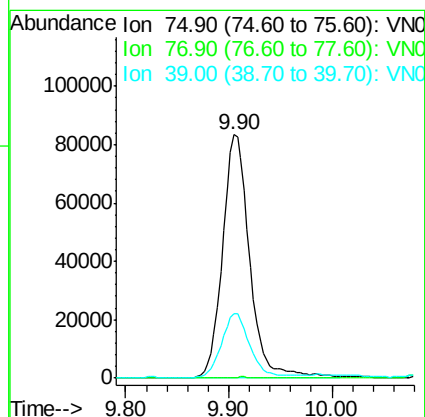
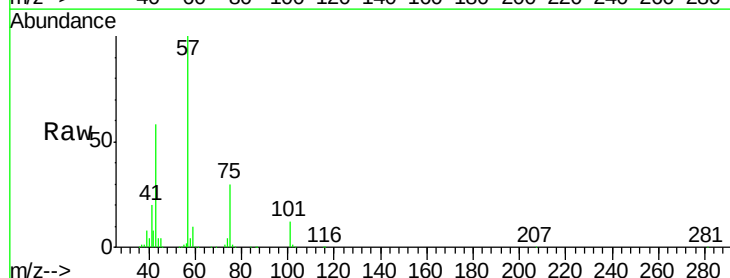
Tgt Ion: 75 Resp: 153205

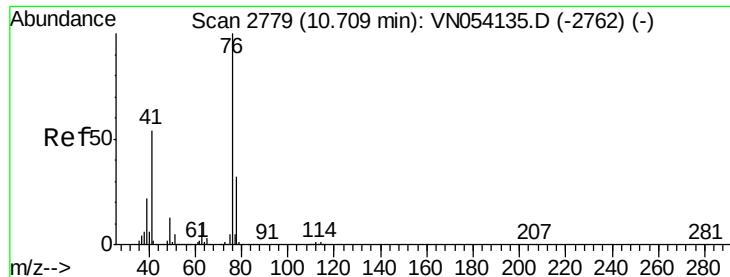
Ion Ratio Lower Upper

75 100

77 0.3 25.4 38.0#

39 26.3 36.2 54.2#

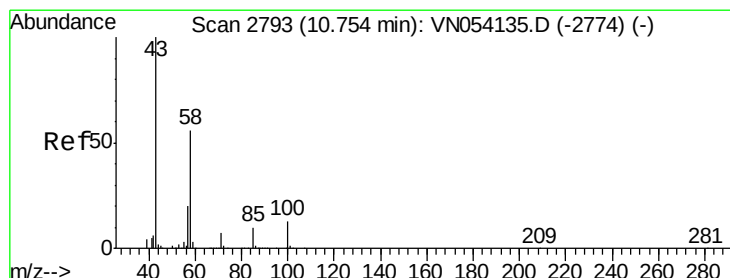
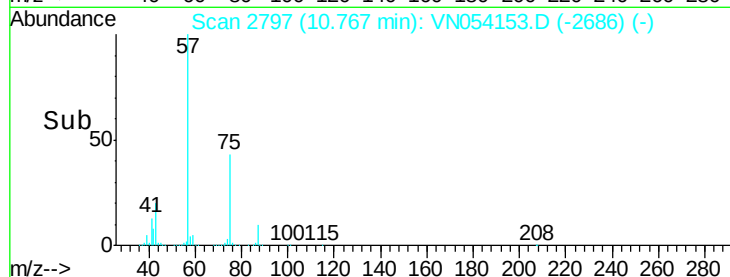
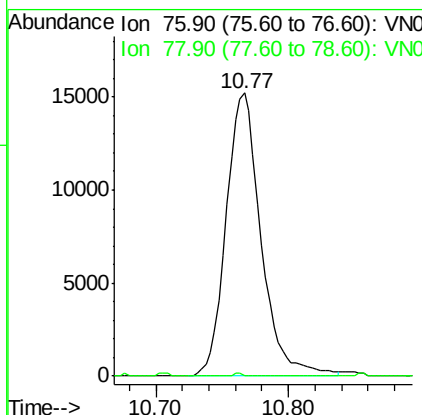
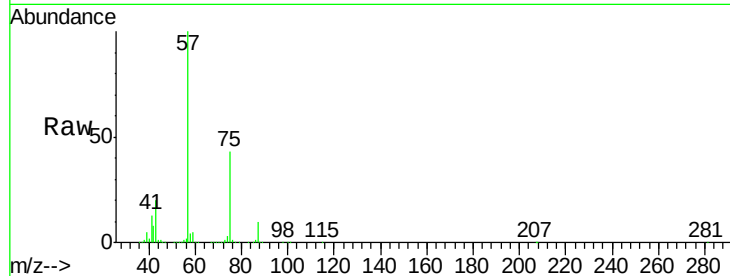




#57
 1,3-Dichloropropane
 Concen: 1.091 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN054153.D
 Acq: 11 Mar 2019 20:37

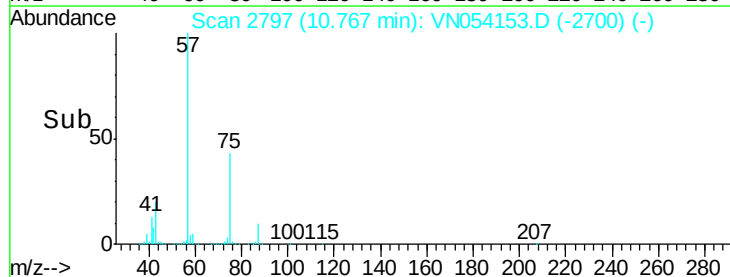
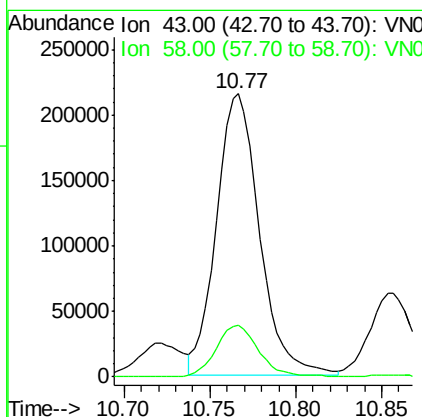
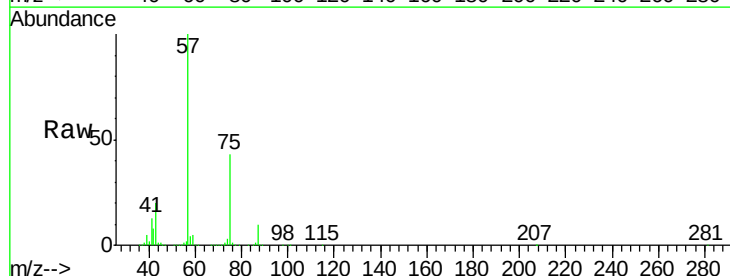
Instrument :
 MSVOA_N
 ClientSampleId :
 CL-02-030819-D

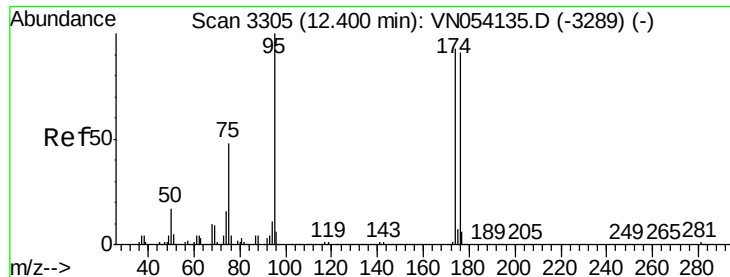
Tot Ion: 76 Resp: 27783
 Ion Ratio Lower Upper
 76 100
 78 0.2 25.9 38.9#



#59
 2-Hexanone
 Concen: 43.295 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN054153.D
 Acq: 11 Mar 2019 20:37

Tgt Ion: 43 Resp: 376808
 Ion Ratio Lower Upper
 43 100
 58 18.3 27.0 81.0#





#62

4-Bromofluorobenzene

Concen: 53.994 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054153.D

Acq: 11 Mar 2019 20:37

Instrument :

MSVOA_N

ClientSampleId :

CL-02-030819-D

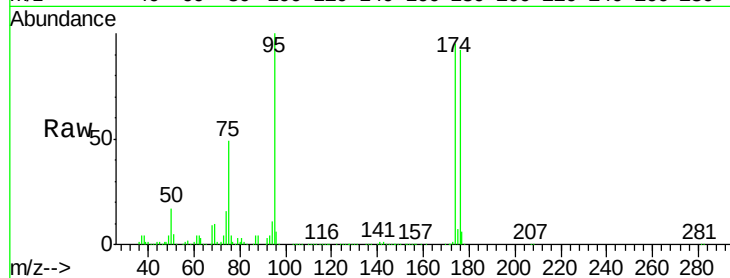
Tot Ion: 95 Resp: 1170922

Ion Ratio Lower Upper

95 100

174 96.1 0.0 173.2

176 92.5 0.0 168.8

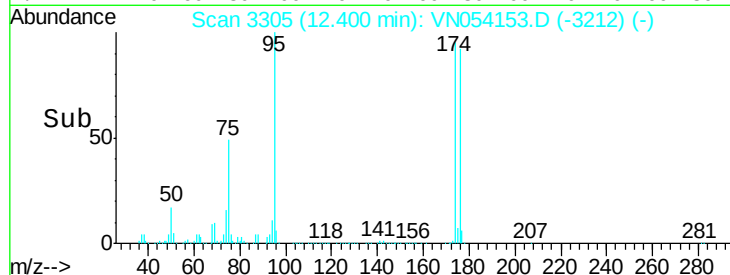


Abundance Ion 94.90 (94.60 to 95.60): VN054135.D (-3289) (-)

Ion 173.80 (173.50 to 174.50): VN054135.D (-3289) (-)

Ion 175.80 (175.50 to 176.50): VN054135.D (-3289) (-)

Time-->

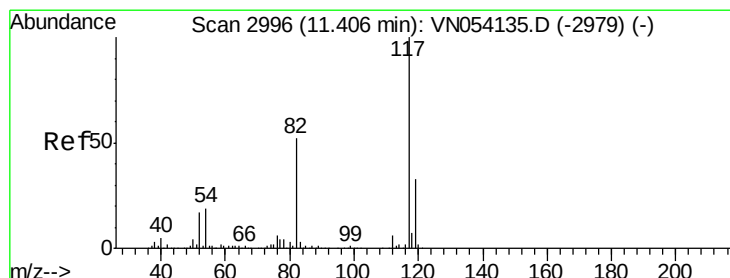


Abundance Ion 94.90 (94.60 to 95.60): VN054135.D (-3289) (-)

Ion 173.80 (173.50 to 174.50): VN054135.D (-3289) (-)

Ion 175.80 (175.50 to 176.50): VN054135.D (-3289) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN054153.D

Acq: 11 Mar 2019 20:37

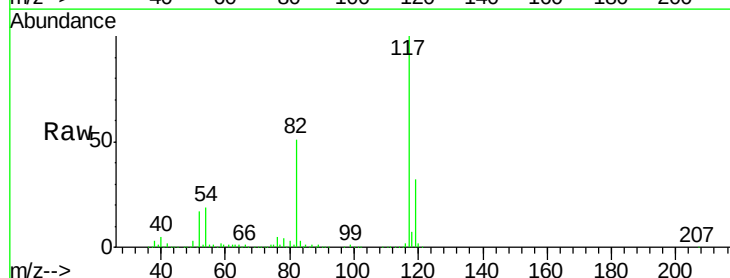
Tgt Ion: 117 Resp: 2589504

Ion Ratio Lower Upper

117 100

82 50.9 43.4 65.2

119 32.4 26.0 39.0

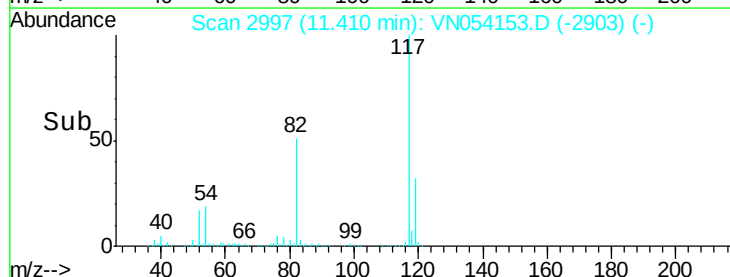


Abundance Ion 116.90 (116.60 to 117.60): VN054135.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN054135.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN054135.D (-2979) (-)

Time-->

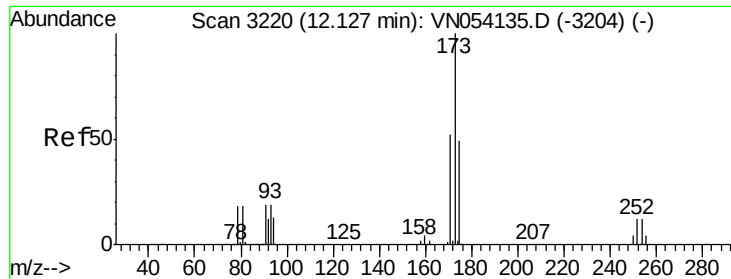


Abundance Ion 116.90 (116.60 to 117.60): VN054135.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN054135.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN054135.D (-2979) (-)

Time-->



#71

Bromoform

Concen: 0.505 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN054153.D

Acq: 11 Mar 2019 20:37

Instrument :

MSVOA_N

ClientSampleId :

CL-02-030819-D

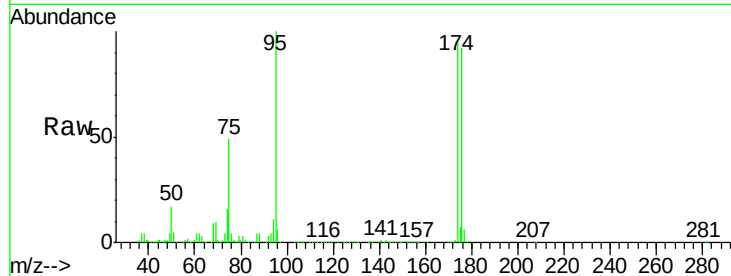
Tot Ion:173 Resp: 7222

Ion Ratio Lower Upper

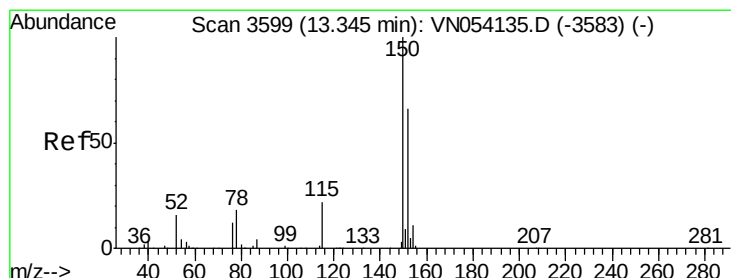
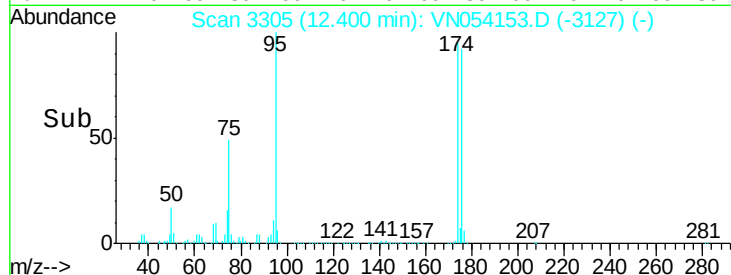
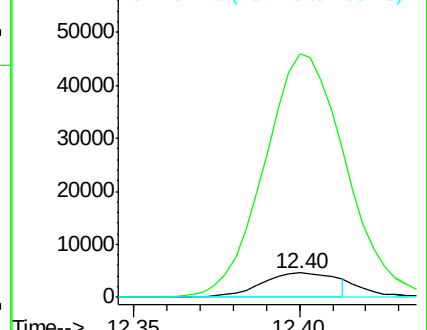
173 100

175 934.4 24.1 72.2#

254 0.0 0.0 0.0



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: VN054153.D

Acq: 11 Mar 2019 20:37

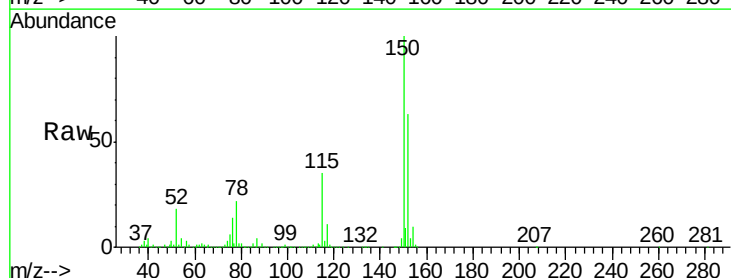
Tgt Ion:152 Resp: 1097788

Ion Ratio Lower Upper

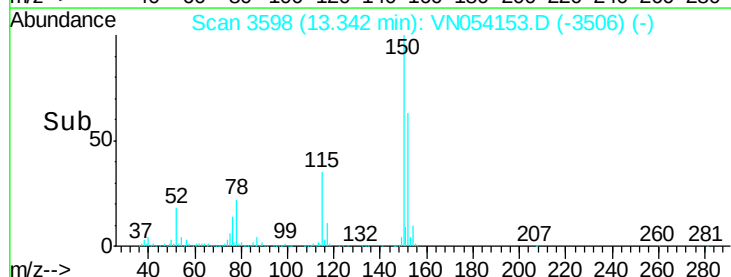
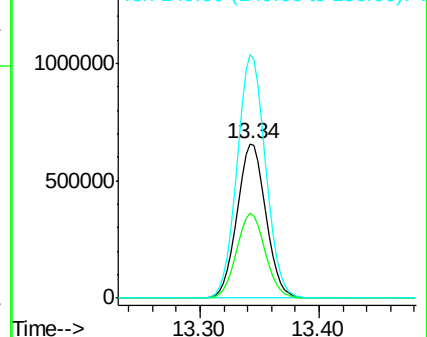
152 100

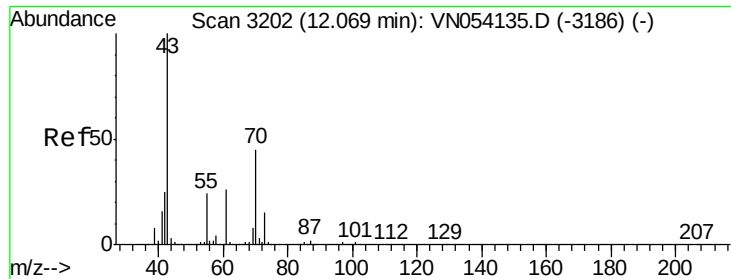
115 54.9 28.5 85.6

150 156.4 0.0 343.2



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

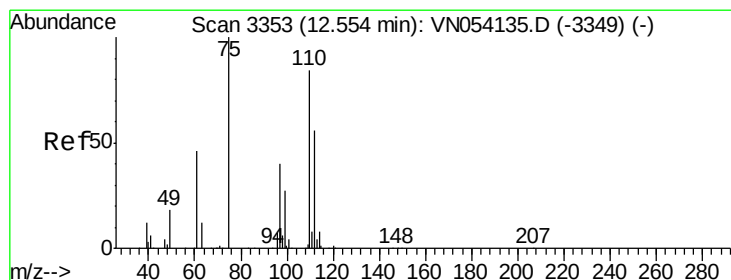
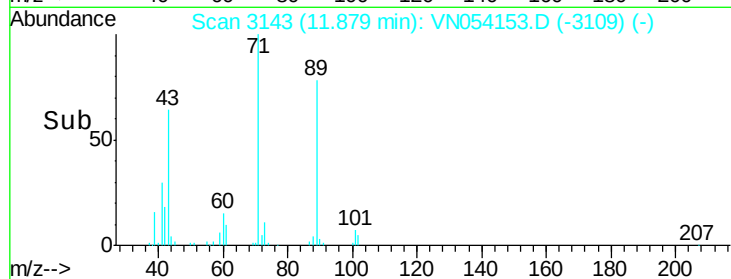
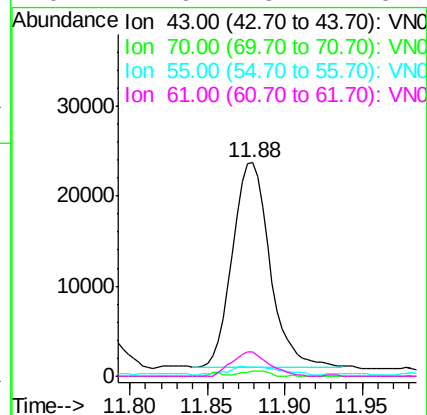
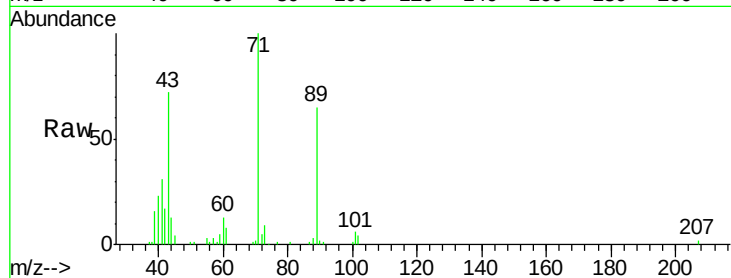




#74
N-amvl acetate
Concen: 1.904 ug/l
RT: 11.88 min Scan# 3143
Delta R.T. -0.19 min
Lab File: VN054153.D
Acq: 11 Mar 2019 20:37

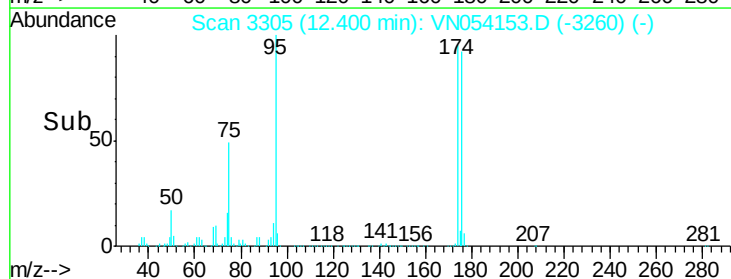
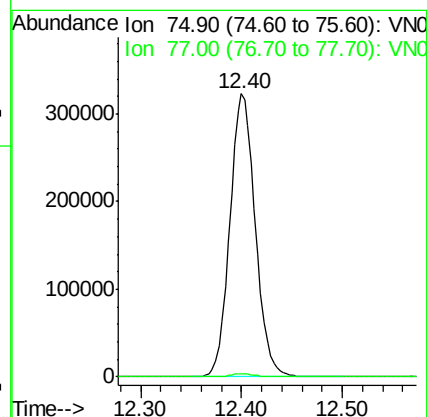
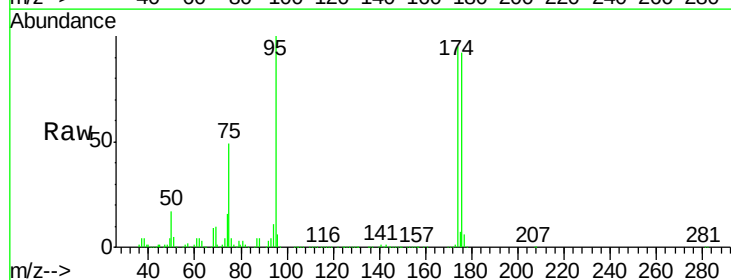
Instrument :
MSVOA_N
ClientSampled :
CL-02-030819-D

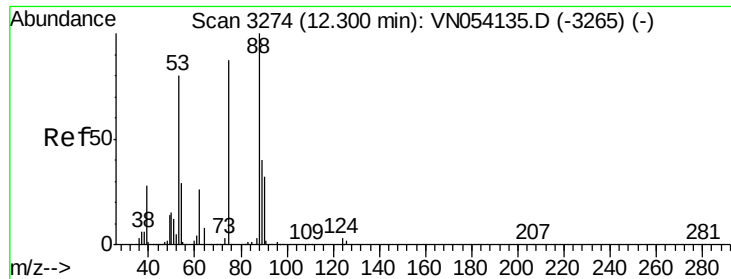
Tot Ion: 43 Resp: 37863
Ion Ratio Lower Upper
43 100
70 1.9 33.6 50.4#
55 5.4 20.6 31.0#
61 11.9 19.4 29.2#



#76
1,2,3-Trichloropropane
Concen: 36.571 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN054153.D
Acq: 11 Mar 2019 20:37

Tgt Ion: 75 Resp: 566941
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 108.861 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054153.D

Acq: 11 Mar 2019 20:37

Instrument :

MSVOA_N

ClientSampleId :

CL-02-030819-D

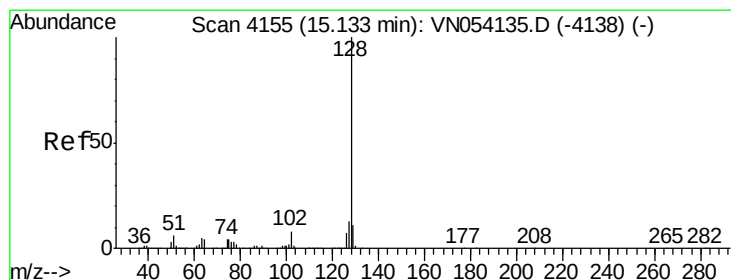
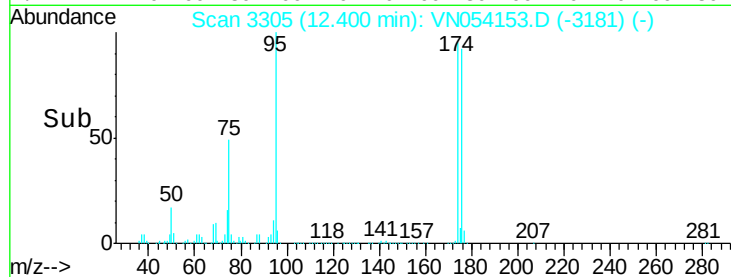
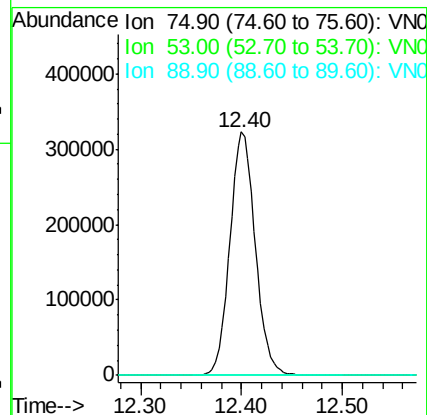
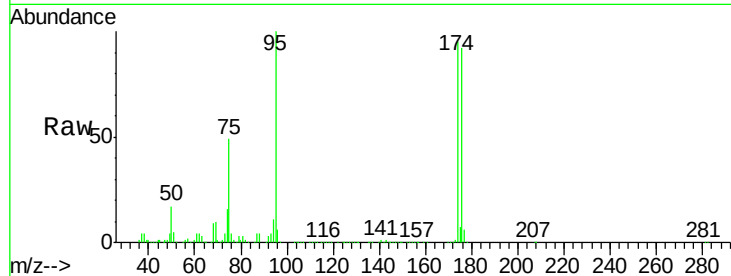
Tot Ion: 75 Resp: 566941

Ion Ratio Lower Upper

75 100

53 0.0 76.4 114.6#

89 0.0 35.3 52.9#



#95

Naphthalene

Concen: 1.140 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054153.D

Acq: 11 Mar 2019 20:37

Tgt Ion: 128 Resp: 46763

Ion Ratio Lower Upper

128 100

127 11.9 10.4 15.6

129 10.5 8.6 12.8

