

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031119\
 Data File : VN054152.D
 Acq On : 11 Mar 2019 20:10
 Operator : JC/SP
 Sample : K1692-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

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

Quant Time: Mar 12 03:25:29 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	1604916	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2611581	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2659061	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	1154063	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	877001	51.10	ug/l	0.00
Spiked Amount			Recovery	=	102.20%	
35) Dibromofluoromethane	7.59	113	828584	49.18	ug/l	0.00
Spiked Amount			Recovery	=	98.36%	
50) Toluene-d8	10.09	98	3234428	52.11	ug/l	0.00
Spiked Amount			Recovery	=	104.22%	
62) 4-Bromofluorobenzene	12.40	95	1213320	55.83	ug/l	0.00
Spiked Amount			Recovery	=	111.66%	

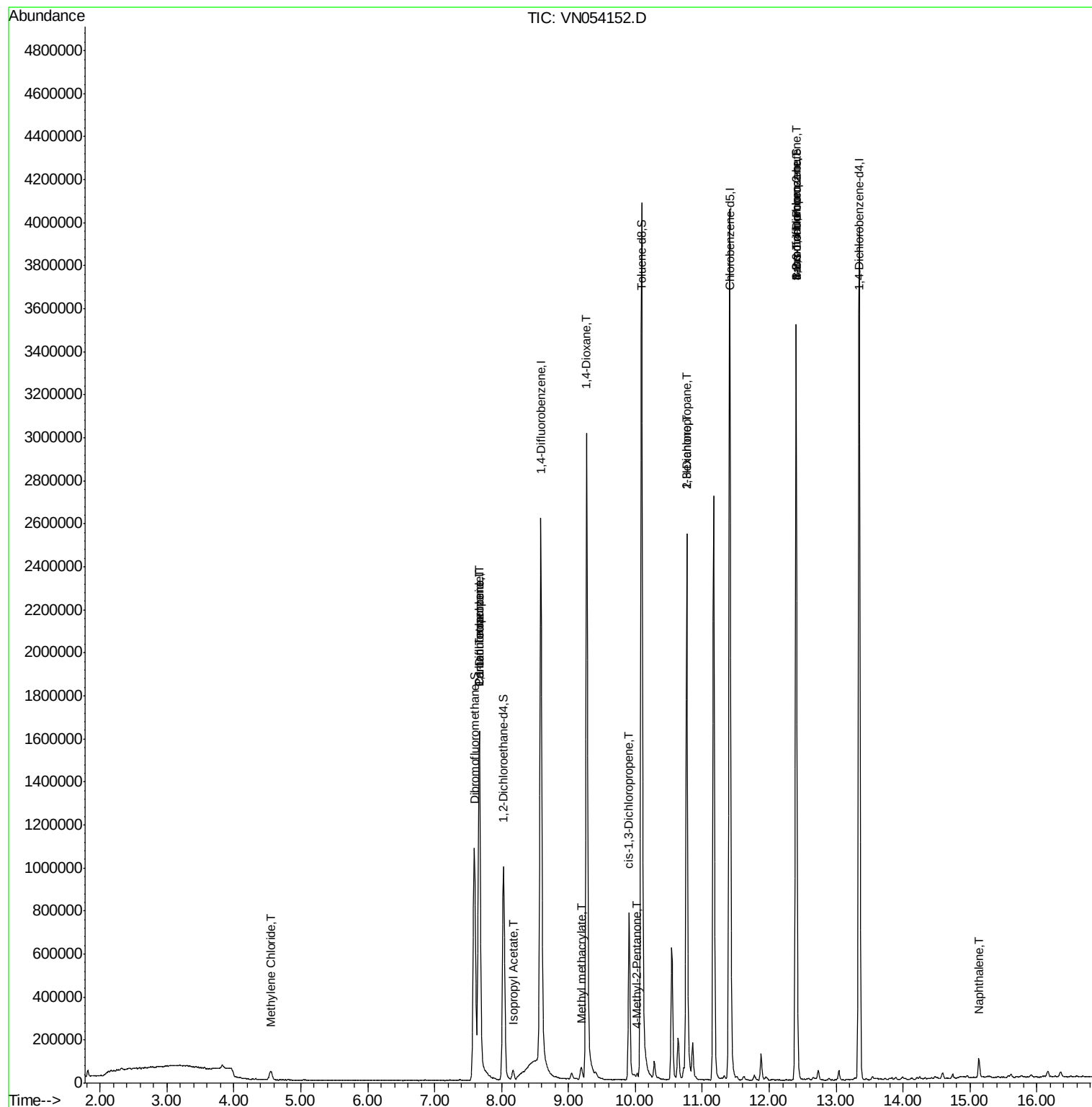
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.83	43	24884	Below Cal		93
20) Methylene Chloride	4.55	84	30813	1.996	ug/l	94
31) Cyclohexane	7.67	56	23382	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	92637	4.076	ug/l #	50
38) Carbon Tetrachloride	7.67	117	127927	5.077	ug/l #	15
43) Isopropyl Acetate	8.17	43	56439	2.304	ug/l #	87
48) Methyl methacrylate	9.19	41	18265	1.387	ug/l #	12
49) 1,4-Dioxane	9.26	88	540	3.160	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	17838	1.357	ug/l #	37
54) cis-1,3-Dichloropropene	9.90	75	163144	6.079	ug/l #	61
57) 1,3-Dichloropropane	10.77	76	28094	1.101	ug/l #	43
59) 2-Hexanone	10.77	43	386657	44.334	ug/l #	51
71) Bromoform	12.40	173	7607	0.518	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	585329	35.916	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	585329	106.911	ug/l #	11
95) Naphthalene	15.13	128	80241	1.860	ug/l	99

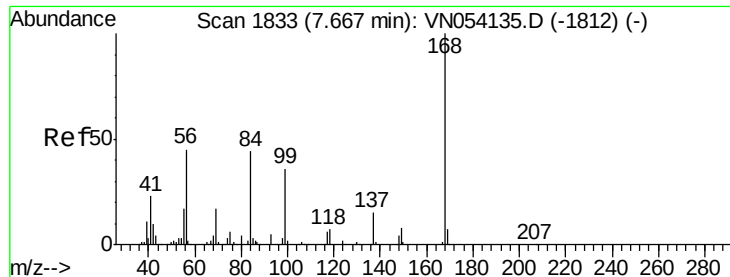
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN054152.D

Acq: 11 Mar 2019 20:10

Instrument :

MSVOA_N

ClientSampleId :

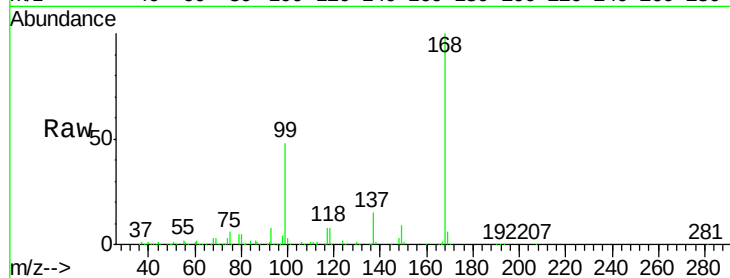
CL-02-030819-C

Tot Ion:168 Resp: 1604916

Ion Ratio Lower Upper

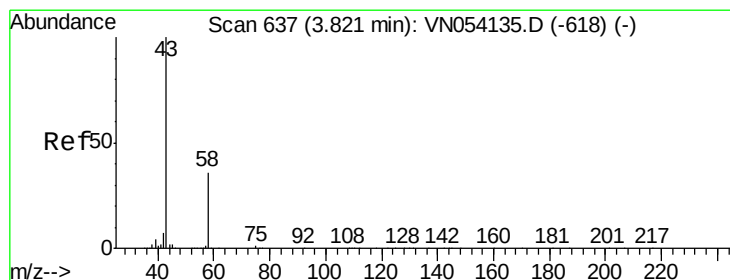
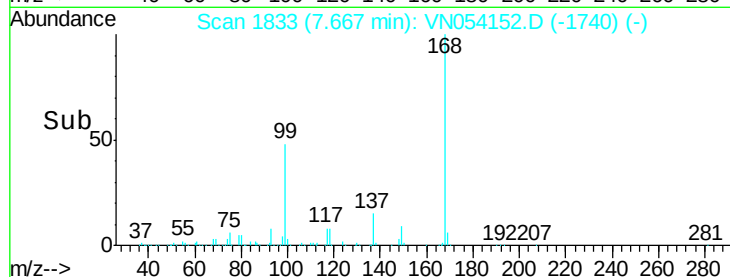
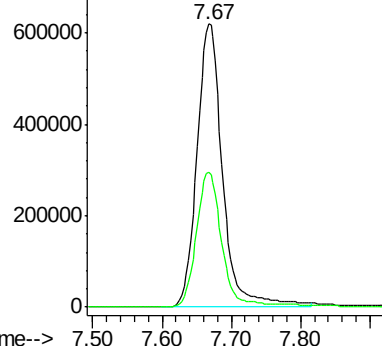
168 100

99 47.8 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN054152.D

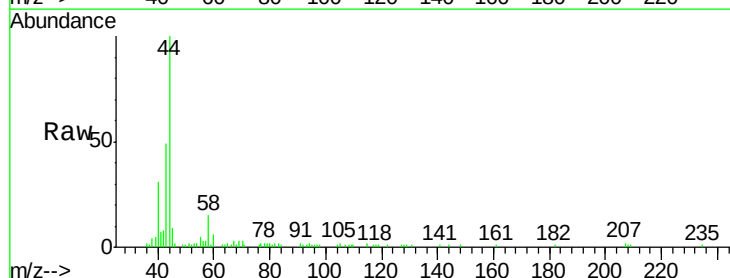
Acq: 11 Mar 2019 20:10

Tgt Ion: 43 Resp: 24884

Ion Ratio Lower Upper

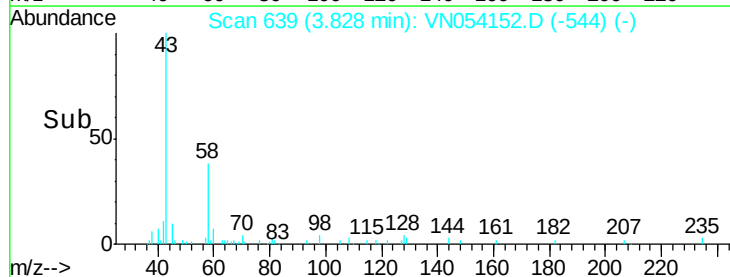
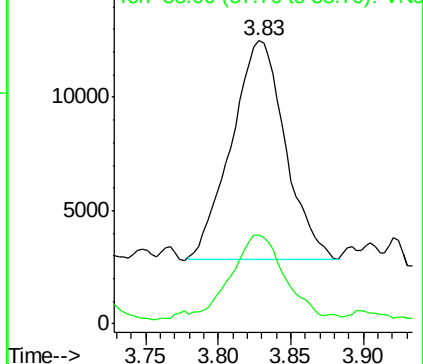
43 100

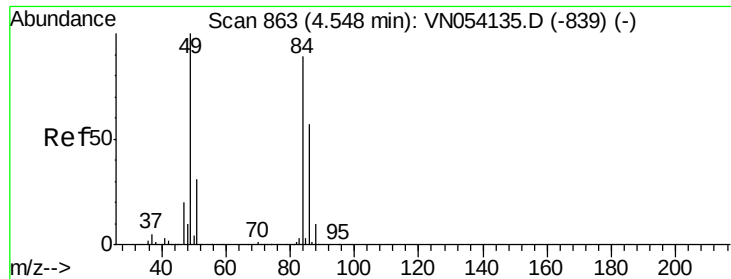
58 37.0 26.5 39.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

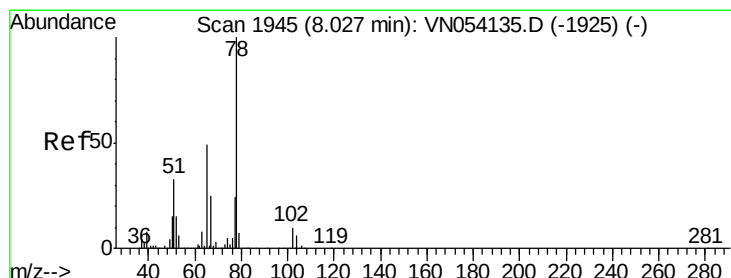
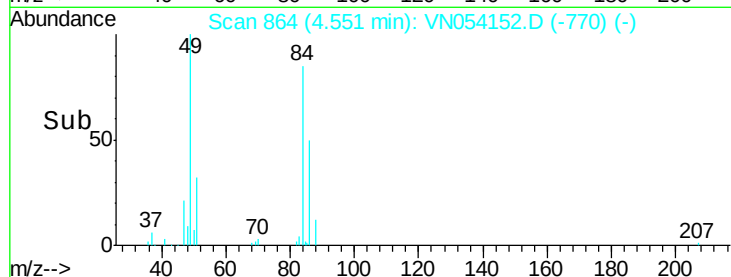
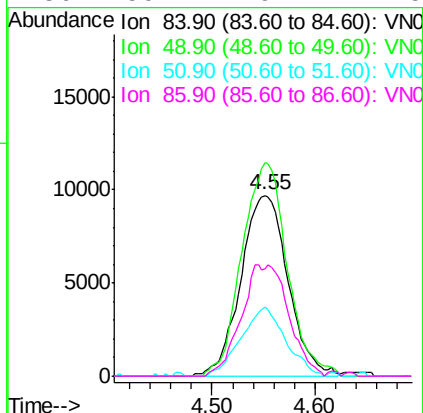
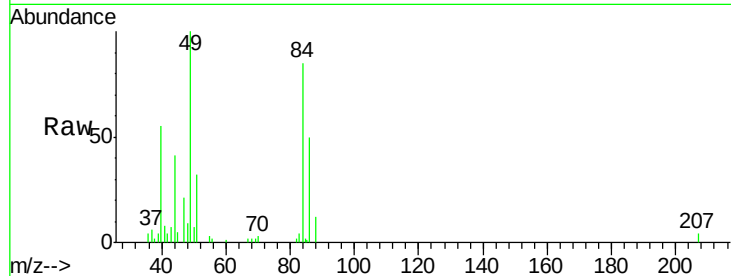




#20
Methylene Chloride
Concen: 1.996 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN054152.D
Acq: 11 Mar 2019 20:10

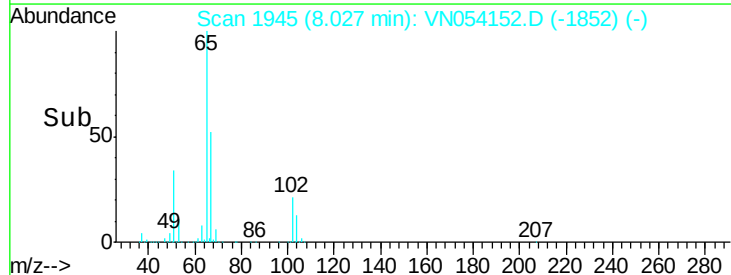
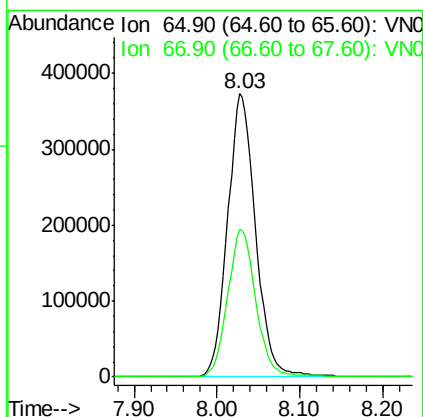
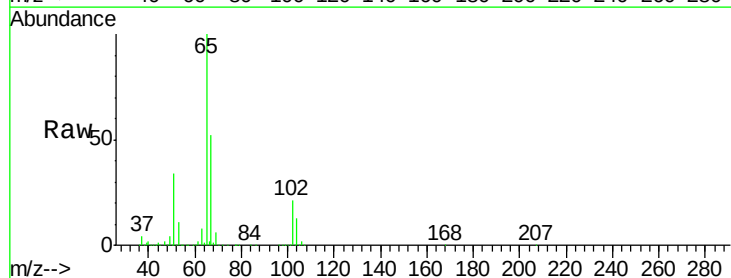
Instrument :
MSVOA_N
ClientSampled :
CL-02-030819-C

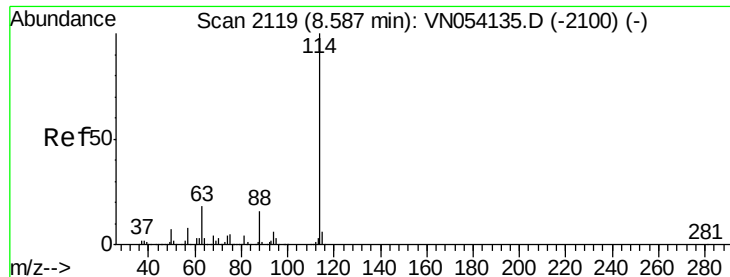
Tot Ion:	84	Resp:	30813
Ion	Ratio	Lower	Upper
84	100		
49	118.3	101.8	152.8
51	38.3	31.1	46.7
86	59.2	49.7	74.5



#33
1,2-Dichloroethane-d4
Concen: 51.097 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN054152.D
Acq: 11 Mar 2019 20:10

Tgt Ion:	65	Resp:	877001
Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN054152.D

Acq: 11 Mar 2019 20:10

Instrument :

MSVOA_N

ClientSampleId :

CL-02-030819-C

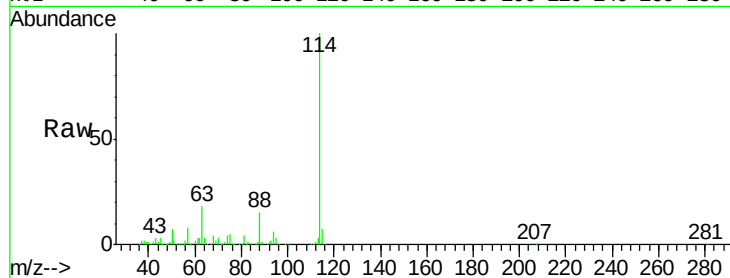
Tot Ion:114 Resp: 2611581

Ion Ratio Lower Upper

114 100

63 18.4 0.0 42.6

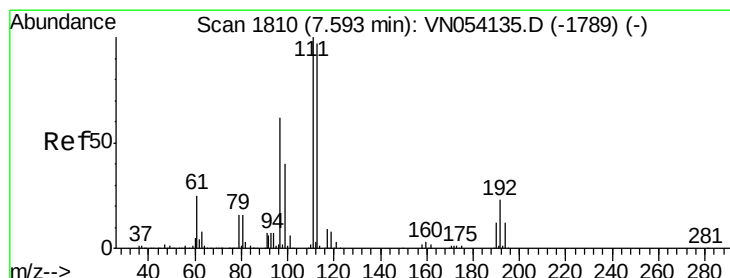
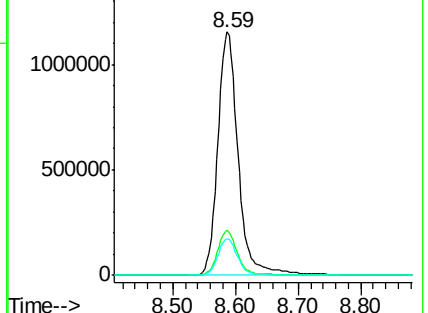
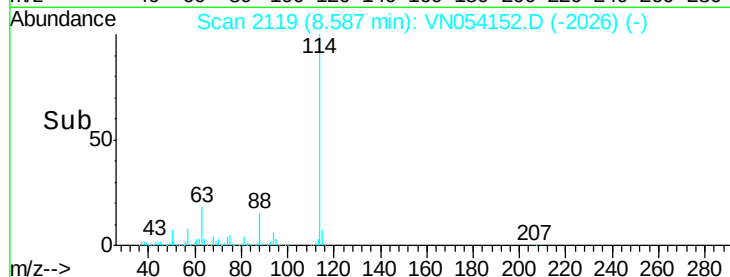
88 15.1 0.0 31.8



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: 49.176 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VN054152.D

Acq: 11 Mar 2019 20:10

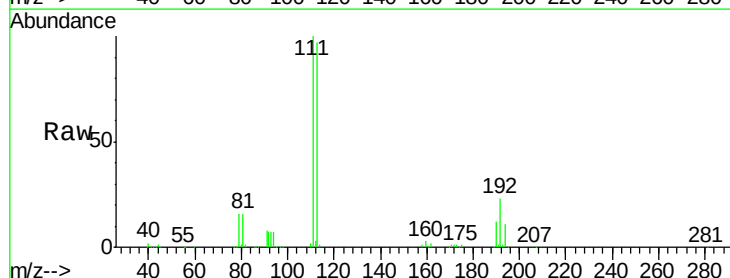
Tgt Ion:113 Resp: 828584

Ion Ratio Lower Upper

113 100

111 103.3 82.1 123.1

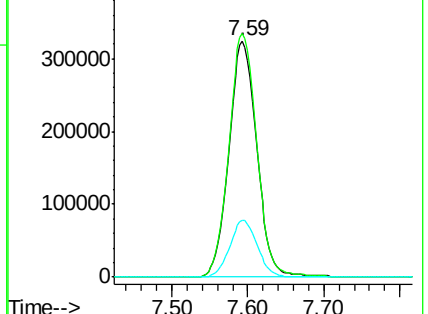
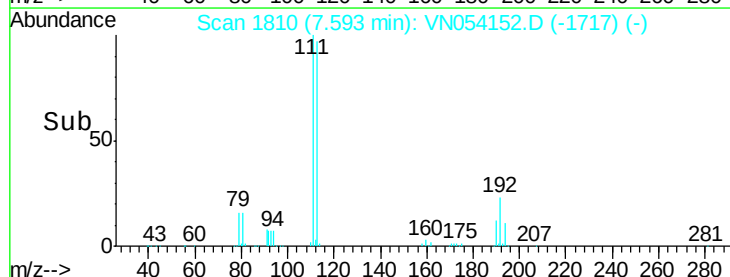
192 23.6 17.4 26.0

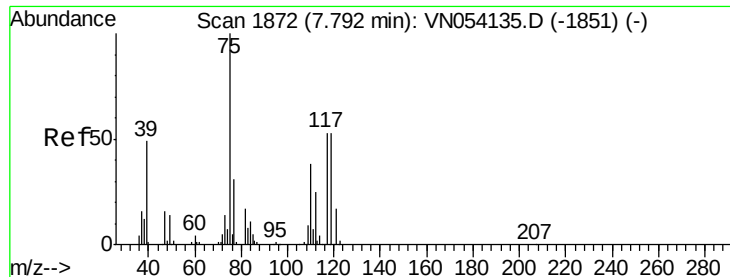


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.076 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN054152.D

Acq: 11 Mar 2019 20:10

Instrument :

MSVOA_N

ClientSampleId :

CL-02-030819-C

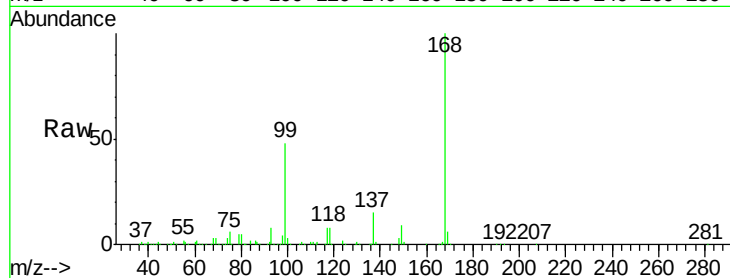
Tot Ion: 75 Resp: 92637

Ion Ratio Lower Upper

75 100

110 9.9 18.0 54.0#

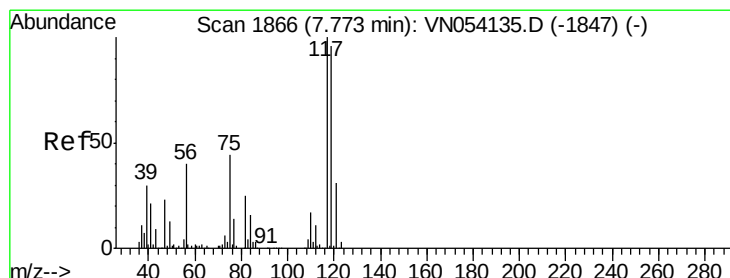
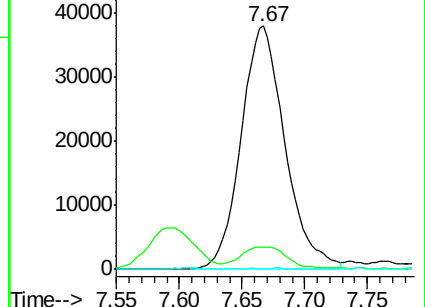
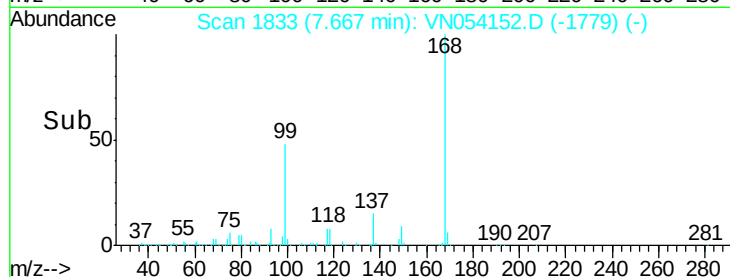
77 0.0 25.3 37.9#



Abundance Ion 74.90 (74.60 to 75.60): VN054152.D (-1779) (-)

Ion 109.90 (109.60 to 110.60): VN054152.D (-1779) (-)

Ion 76.90 (76.60 to 77.60): VN054152.D (-1779) (-)



#38

Carbon Tetrachloride

Concen: 5.077 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN054152.D

Acq: 11 Mar 2019 20:10

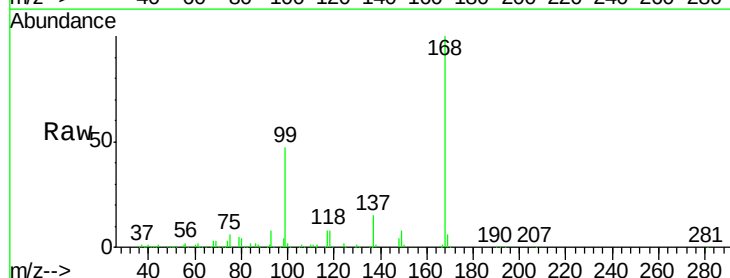
Tgt Ion: 117 Resp: 127927

Ion Ratio Lower Upper

117 100

119 4.3 77.0 115.6#

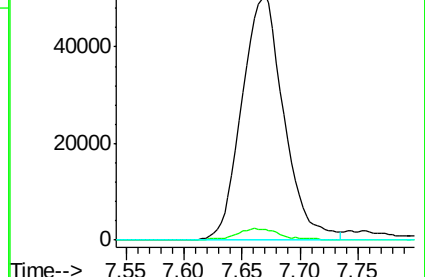
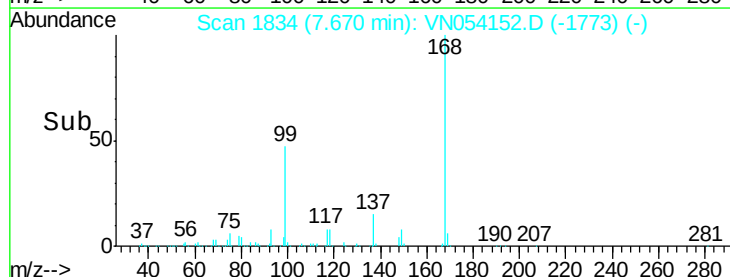
121 0.0 24.3 36.5#

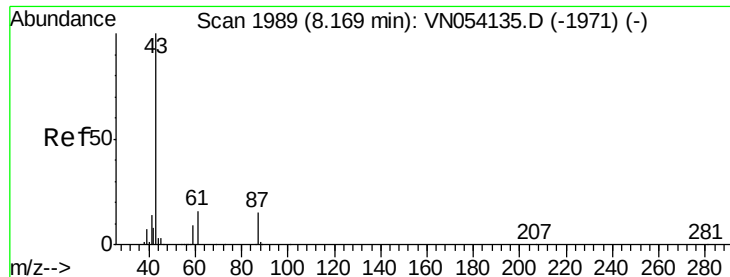


Abundance Ion 116.80 (116.50 to 117.50): VN054152.D (-1773) (-)

Ion 118.80 (118.50 to 119.50): VN054152.D (-1773) (-)

Ion 120.80 (120.50 to 121.50): VN054152.D (-1773) (-)





#43

Isopropyl Acetate

Concen: 2.304 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054152.D

Acq: 11 Mar 2019 20:10

Instrument :

MSVOA_N

ClientSampleId :

CL-02-030819-C

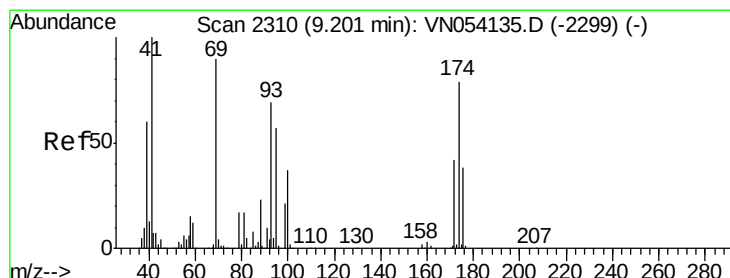
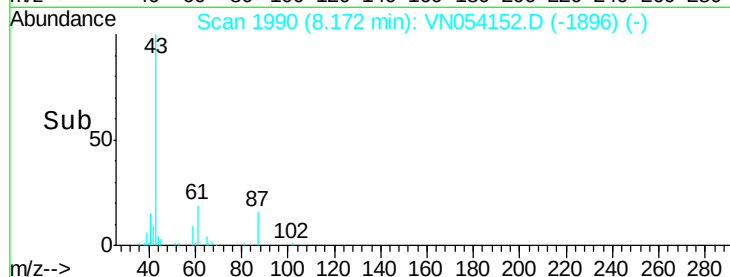
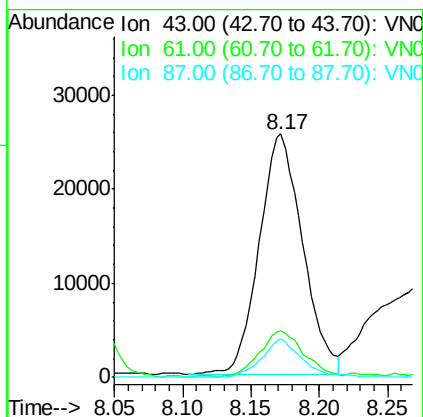
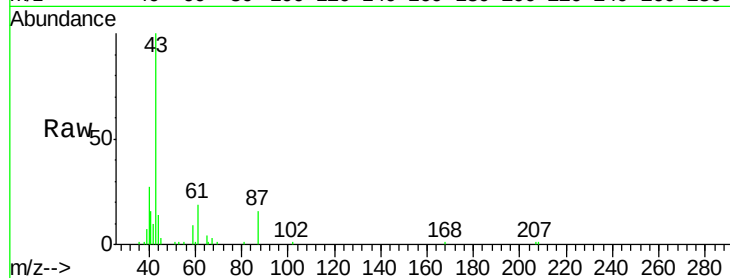
Tot Ion: 43 Resp: 56439

Ion Ratio Lower Upper

43 100

61 19.8 22.5 33.7#

87 14.8 10.1 15.1



#48

Methyl methacrylate

Concen: 1.387 ug/l

RT: 9.19 min Scan# 2306

Delta R.T. -0.01 min

Lab File: VN054152.D

Acq: 11 Mar 2019 20:10

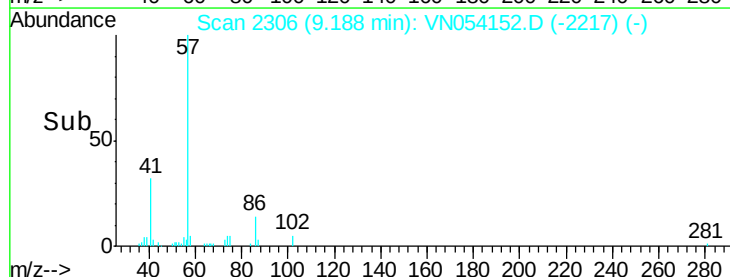
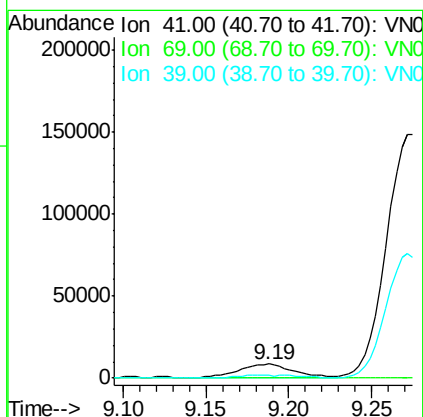
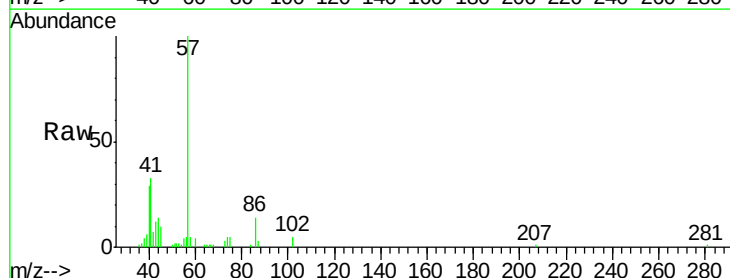
Tgt Ion: 41 Resp: 18265

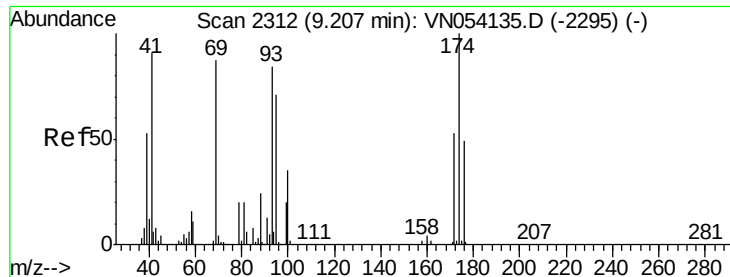
Ion Ratio Lower Upper

41 100

69 0.0 71.0 106.4#

39 0.0 43.7 65.5#





#49

1,4-Dioxane

Concen: 3.160 ug/l

RT: 9.26 min Scan# 2330

Delta R.T. 0.06 min

Lab File: VN054152.D

Acq: 11 Mar 2019 20:10

Instrument :

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ClientSampleId :

CL-02-030819-C

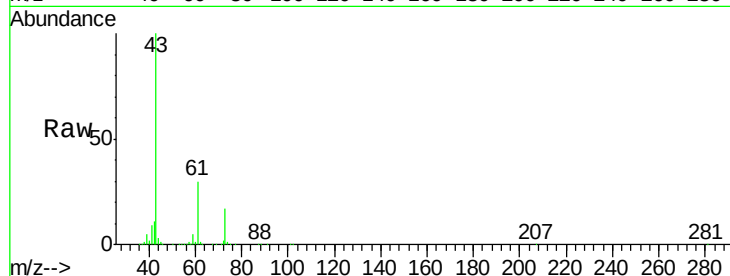
Tot Ion: 88 Resp: 540

Ion Ratio Lower Upper

88 100

43 594283.3 25.5 38.3#

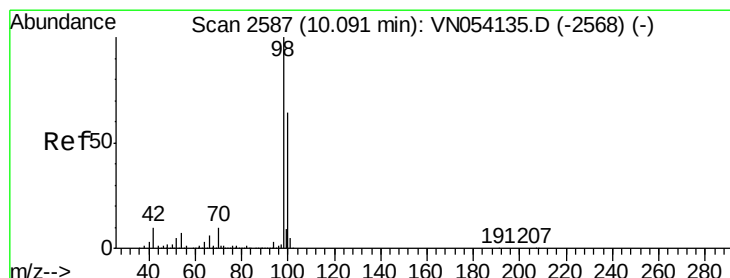
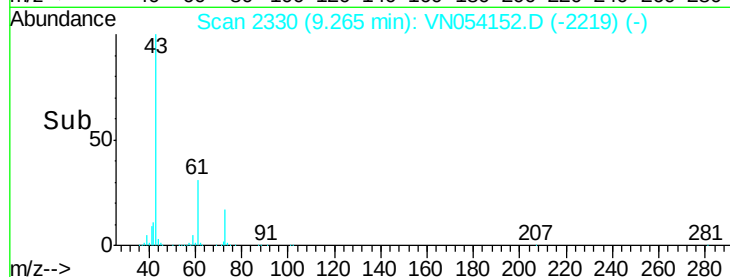
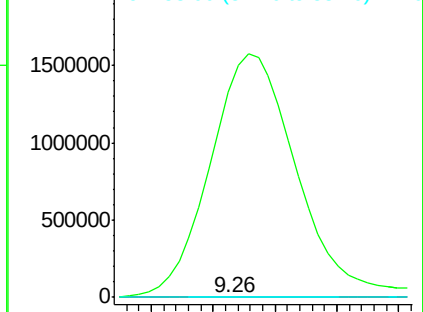
58 2074.6 58.3 87.5#



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: 52.107 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054152.D

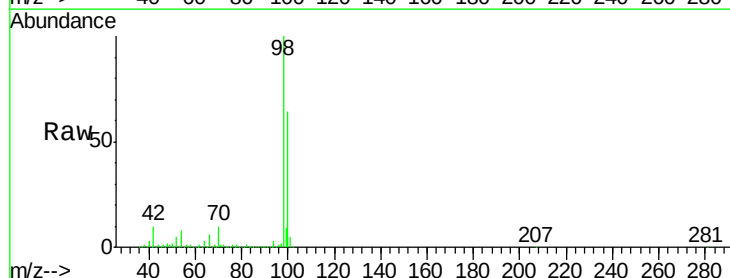
Acq: 11 Mar 2019 20:10

Tgt Ion: 98 Resp: 3234428

Ion Ratio Lower Upper

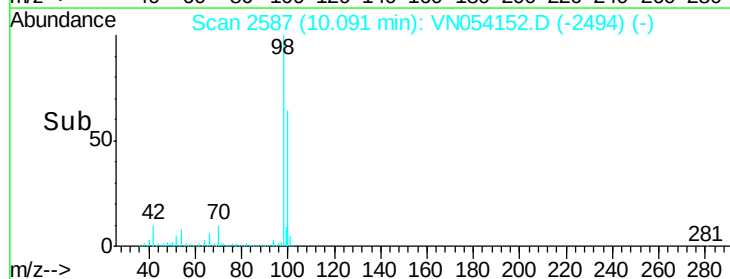
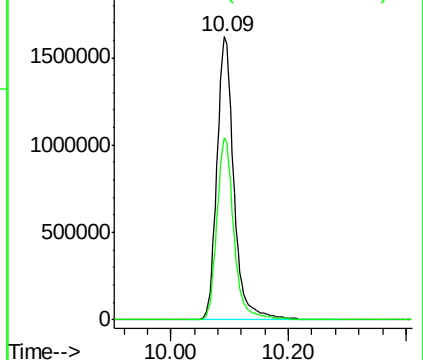
98 100

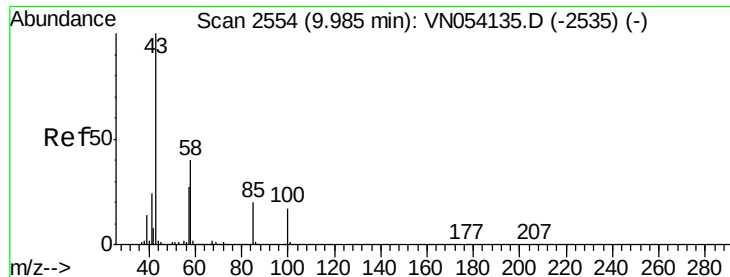
100 64.4 51.7 77.5



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: 1.357 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN054152.D

Acq: 11 Mar 2019 20:10

Instrument :

MSVOA_N

ClientSampleId :

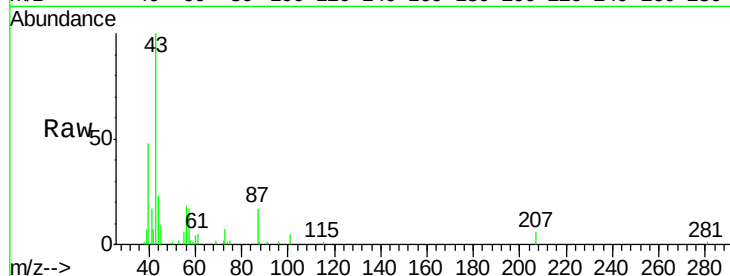
CL-02-030819-C

Tot Ion: 43 Resp: 17838

Ion Ratio Lower Upper

43 100

58 0.0 30.8 46.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.03

15000

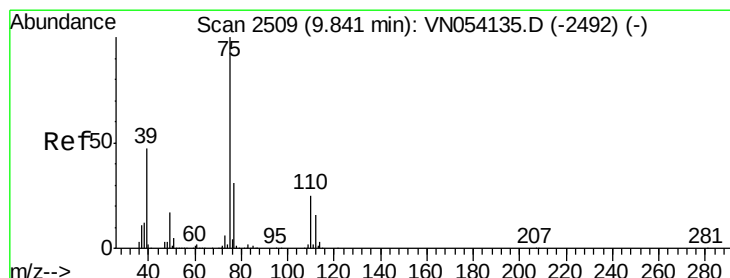
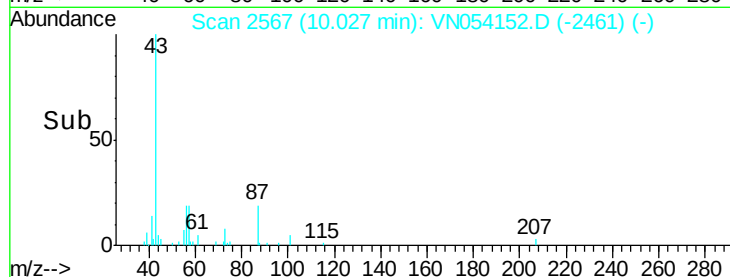
10000

5000

0

Time-->

10.00 10.05



#54

cis-1,3-Dichloropropene

Concen: 6.079 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054152.D

Acq: 11 Mar 2019 20:10

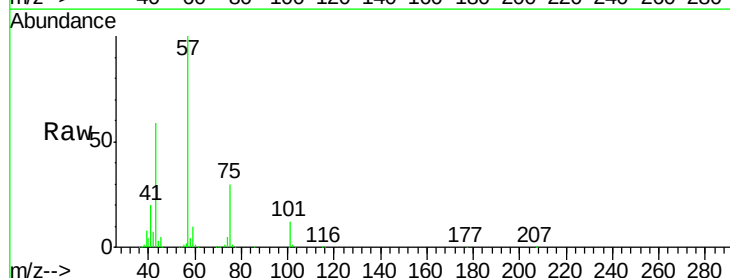
Tgt Ion: 75 Resp: 163144

Ion Ratio Lower Upper

75 100

77 0.5 25.4 38.0#

39 27.2 36.2 54.2#



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

9.90

120000

100000

80000

60000

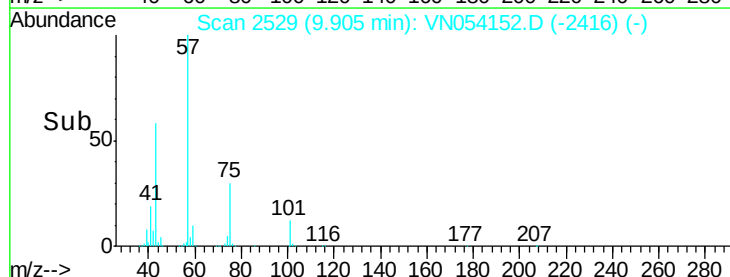
40000

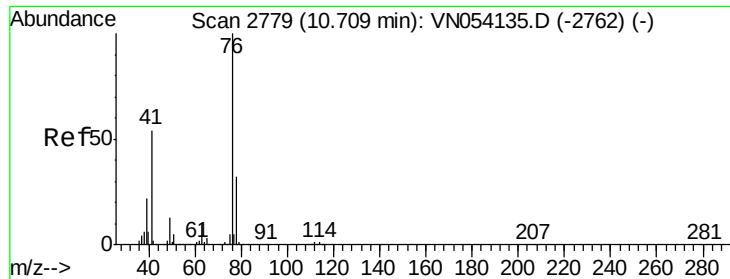
20000

0

Time-->

9.80 9.90 10.00

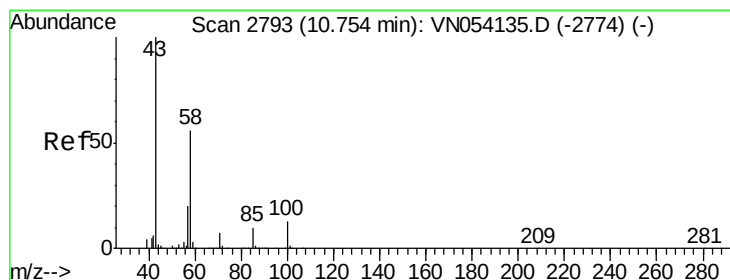
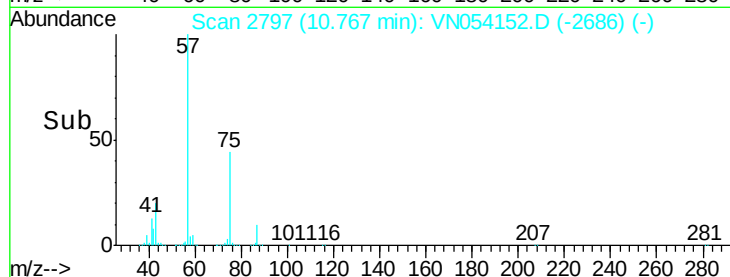
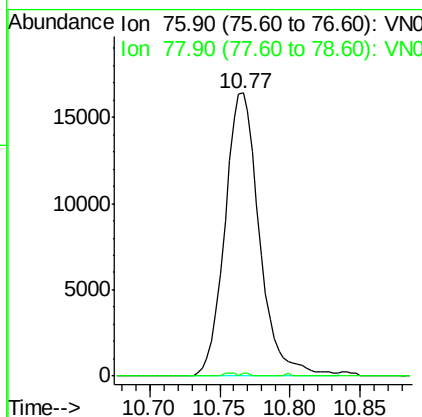
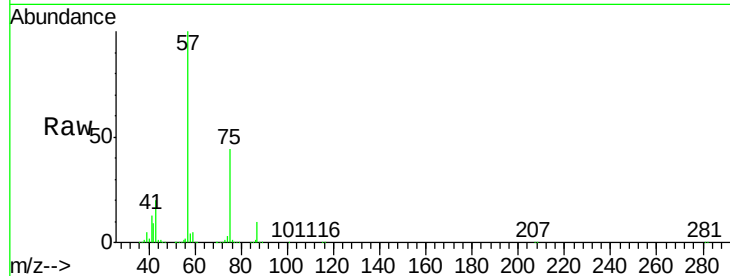




#57
 1,3-Dichloropropane
 Concen: 1.101 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN054152.D
 Acq: 11 Mar 2019 20:10

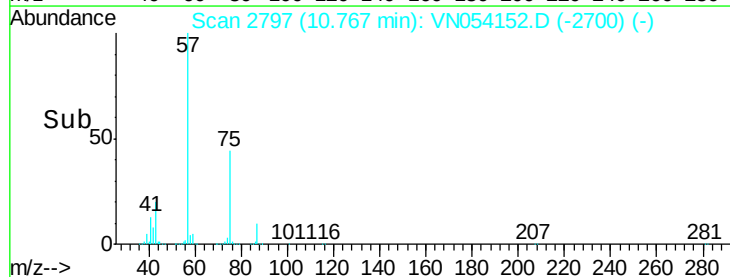
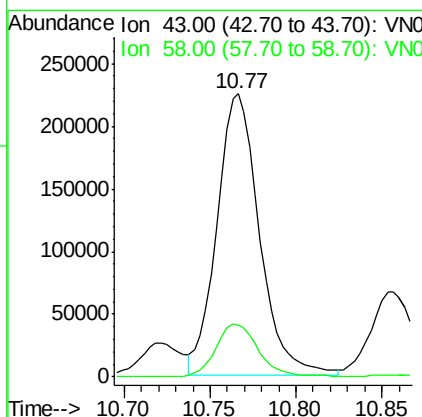
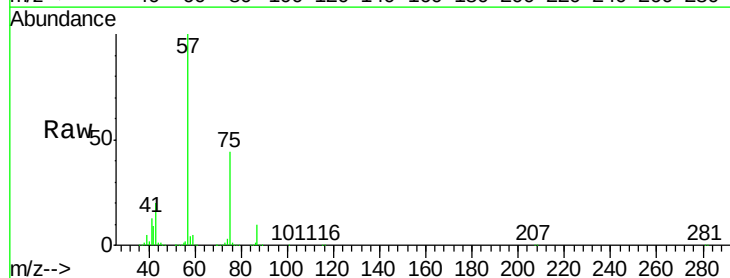
Instrument :
 MSVOA_N
 ClientSampleId :
 CL-02-030819-C

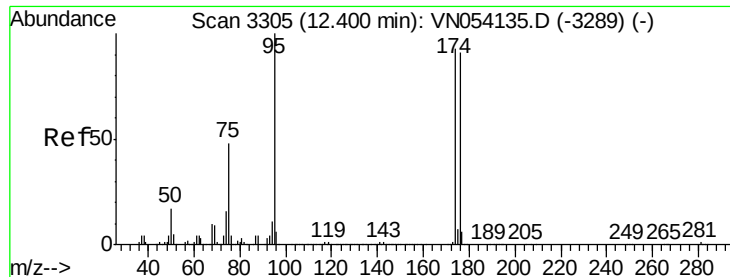
Tot Ion: 76 Resp: 28094
 Ion Ratio Lower Upper
 76 100
 78 0.2 25.9 38.9#



#59
 2-Hexanone
 Concen: 44.334 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN054152.D
 Acq: 11 Mar 2019 20:10

Tgt Ion: 43 Resp: 386657
 Ion Ratio Lower Upper
 43 100
 58 19.1 27.0 81.0#





#62

4-Bromofluorobenzene

Concen: 55.832 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054152.D

Acq: 11 Mar 2019 20:10

Instrument :

MSVOA_N

ClientSampleId :

CL-02-030819-C

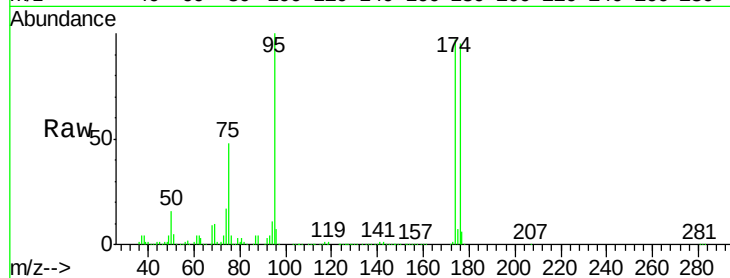
Tot Ion: 95 Resp: 1213320

Ion Ratio Lower Upper

95 100

174 96.3 0.0 173.2

176 94.1 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) (-)

12.40

800000

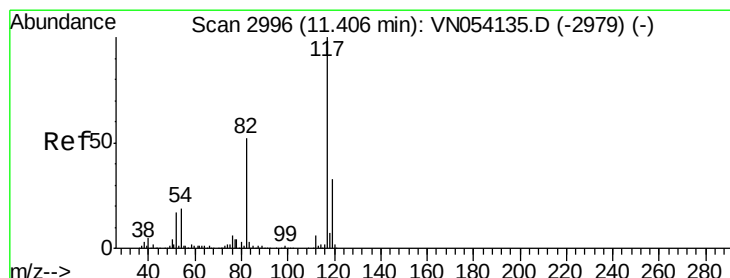
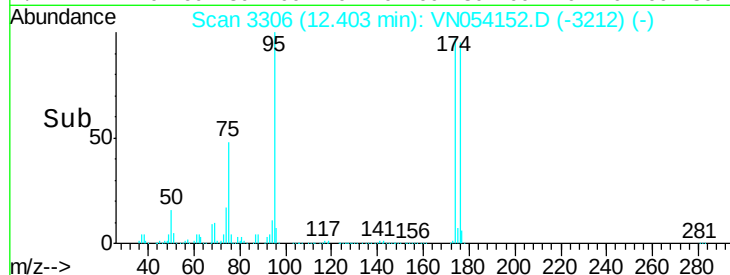
600000

400000

200000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN054152.D

Acq: 11 Mar 2019 20:10

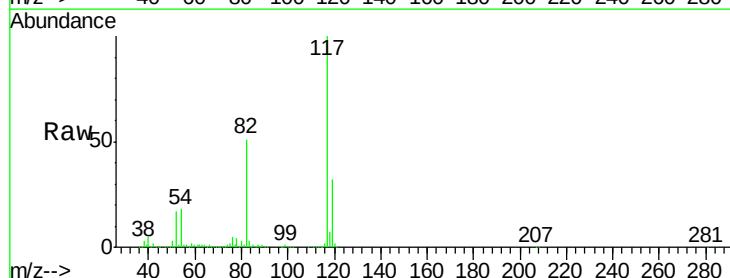
Tgt Ion: 117 Resp: 2659061

Ion Ratio Lower Upper

117 100

82 50.9 43.4 65.2

119 32.2 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) (-)

11.41

2000000

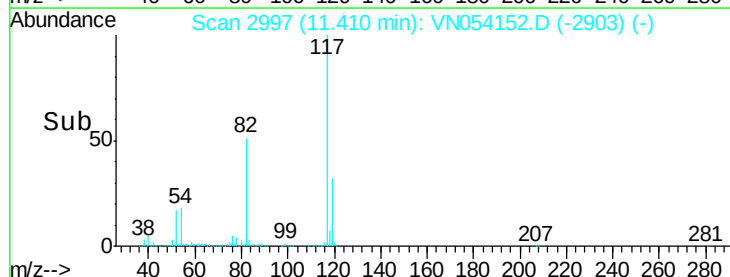
1500000

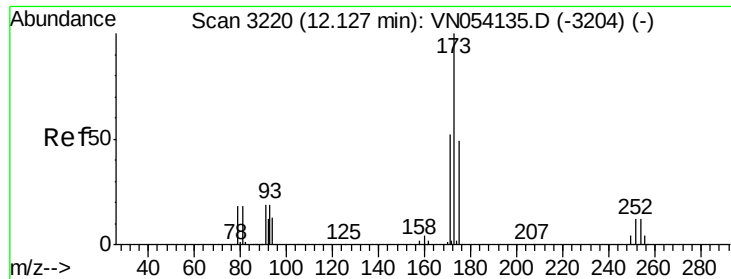
1000000

500000

0

Time--> 11.30 11.40 11.50 11.60

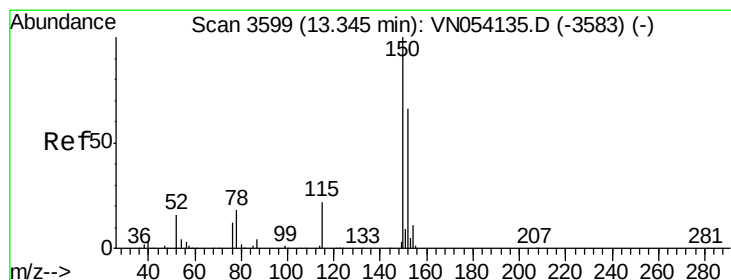
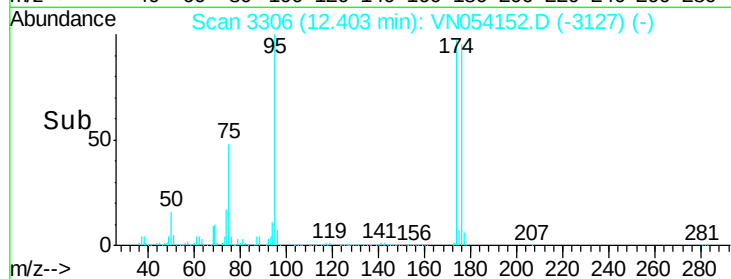
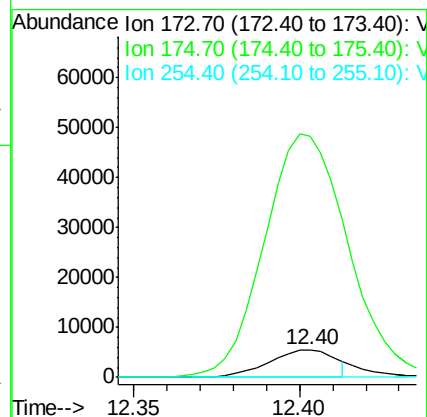
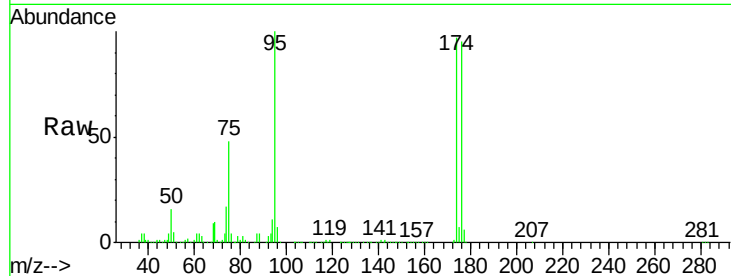




#71
Bromoform
Concen: 0.518 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN054152.D
Acq: 11 Mar 2019 20:10

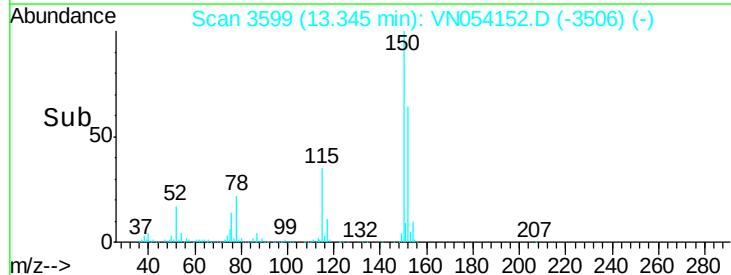
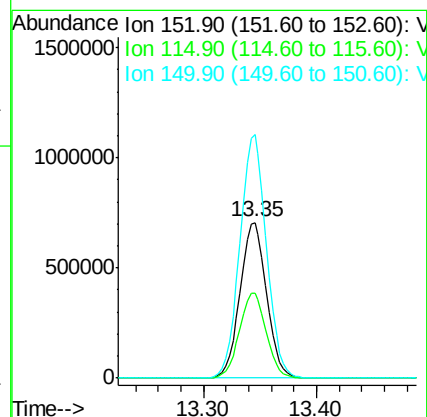
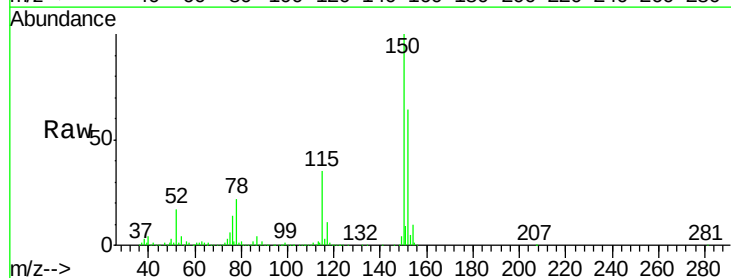
Instrument :
MSVOA_N
ClientSampleId :
CL-02-030819-C

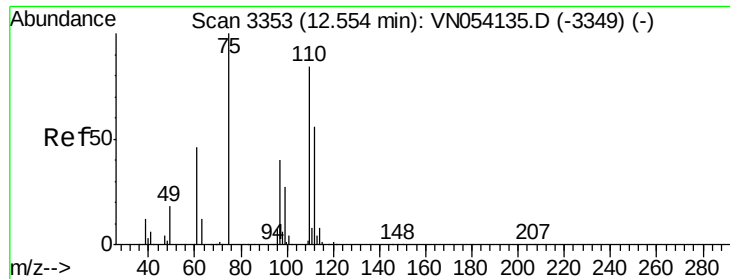
Tot Ion:173 Resp: 7607
Ion Ratio Lower Upper
173 100
175 954.9 24.1 72.2#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. -0.00 min
Lab File: VN054152.D
Acq: 11 Mar 2019 20:10

Tgt Ion:152 Resp: 1154063
Ion Ratio Lower Upper
152 100
115 55.0 28.5 85.6
150 156.4 0.0 343.2





#76

1,2,3-Trichloropropane

Concen: 35.916 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054152.D

Acq: 11 Mar 2019 20:10

Instrument :

MSVOA_N

ClientSampleId :

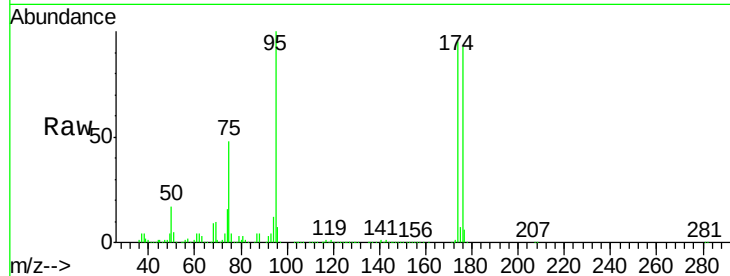
CL-02-030819-C

Tot Ion: 75 Resp: 585329

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

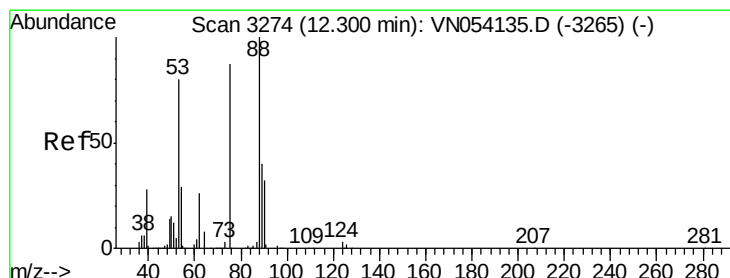
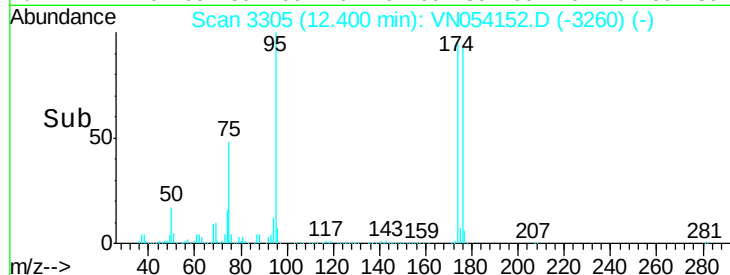
300000

200000

100000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 106.911 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054152.D

Acq: 11 Mar 2019 20:10

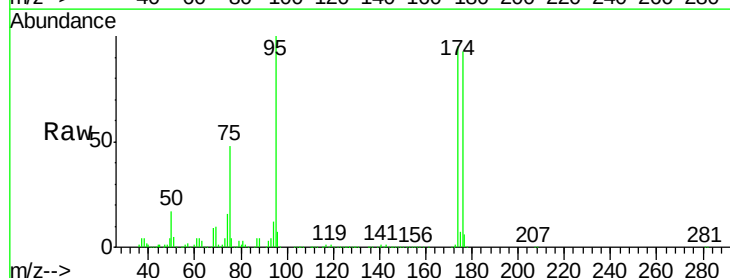
Tgt Ion: 75 Resp: 585329

Ion Ratio Lower Upper

75 100

53 0.0 76.4 114.6#

89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

12.40

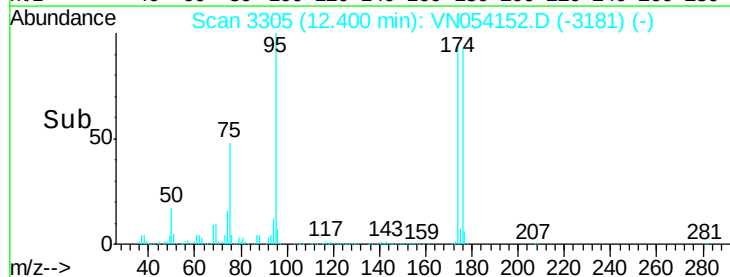
300000

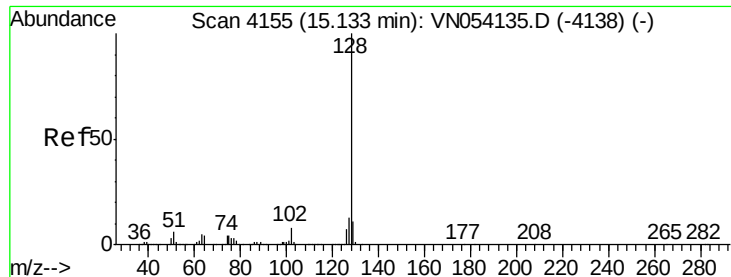
200000

100000

0

Time--> 12.30 12.40 12.50





#95

Naphthalene

Concen: 1.860 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054152.D

Acq: 11 Mar 2019 20:10

Instrument :

MSVOA_N

ClientSampleId :

CL-02-030819-C

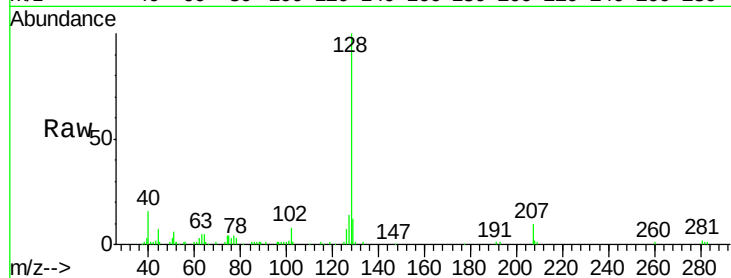
Tot Ion:128 Resp: 80241

Ion Ratio Lower Upper

128 100

127 13.7 10.4 15.6

129 11.0 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

