

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091419\
 Data File : VN058021.D
 Acq On : 13 Sep 2019 17:10
 Operator : JC/SP
 Sample : VN0914WBL03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBL03

Quant Time: Sep 14 03:35:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

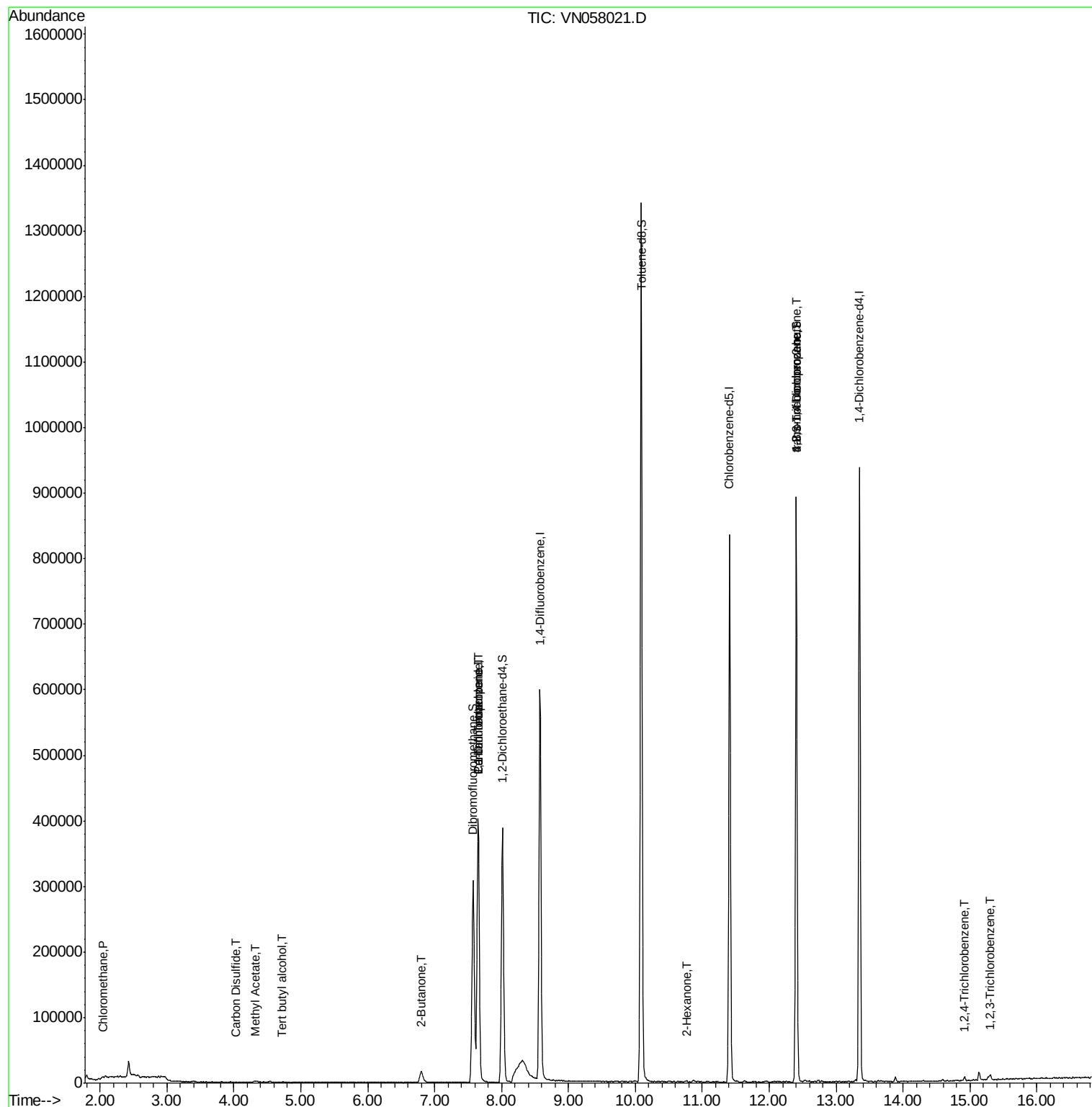
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	314794	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	514169	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	458796	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	236136	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	339625	53.27	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.54%	
35) Dibromofluoromethane	7.58	113	233641	49.23	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.46%	
50) Toluene-d8	10.09	98	919446	49.90	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.80%	
62) 4-Bromofluorobenzene	12.40	95	295179	42.04	ug/l	0.00
Spiked Amount 50.000			Recovery	=	84.08%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.04	50	961	0.217 ug/l #		70
5) Bromomethane	2.56	94	1070	Below Cal #		72
11) Tert butyl alcohol	4.72	59	309	0.400 ug/l #		72
17) Carbon Disulfide	4.04	76	719	0.296 ug/l #		75
18) Methyl Acetate	4.32	43	2837	0.509 ug/l #		84
20) Methylene Chloride	4.54	84	667	Below Cal #		79
25) 2-Butanone	6.79	43	715	0.236 ug/l #		49
31) Cyclohexane	7.65	56	8038	Below Cal #		22
36) 1,1-Dichloropropene	7.65	75	27156	4.554 ug/l #		48
38) Carbon Tetrachloride	7.65	117	31868	5.854 ug/l #		15
59) 2-Hexanone	10.76	43	973	0.212 ug/l		87
76) 1,2,3-Trichloropropane	12.40	75	164872	30.864 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	164872	108.613 ug/l #		6
93) 1,2,4-Trichlorobenzene	14.92	180	2012	0.367 ug/l		82
95) Naphthalene	15.14	128	10180	Below Cal #		94
96) 1,2,3-Trichlorobenzene	15.30	180	2427	1.496 ug/l		84

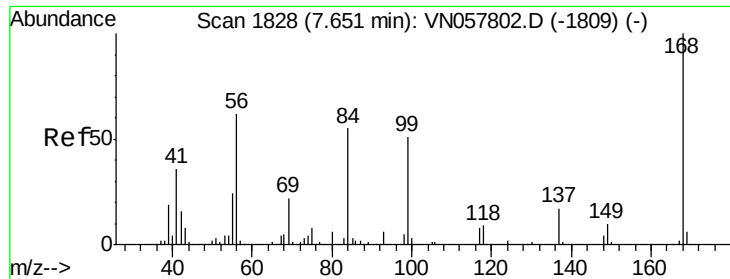
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058021.D

Acq: 13 Sep 2019 17:10

Instrument :

MSVOA_N

ClientSampleId :

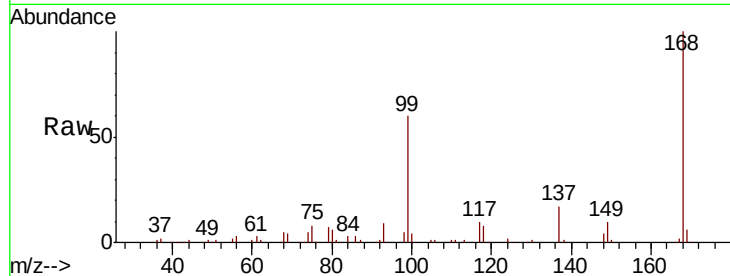
VN0914WBL03

Tgt Ion:168 Resp: 314794

Ion Ratio Lower Upper

168 100

99 60.4 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VN057802.D (-1809) (-)

Ion 98.90 (98.60 to 99.60): VN057802.D (-1809) (-)

7.65

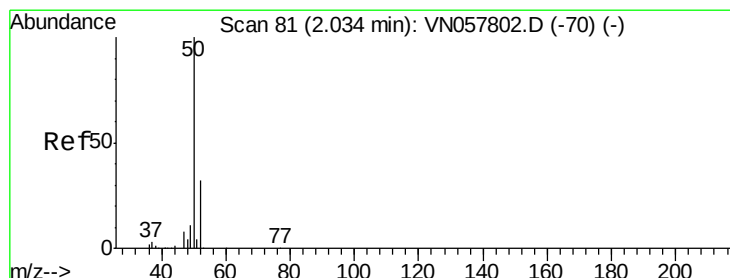
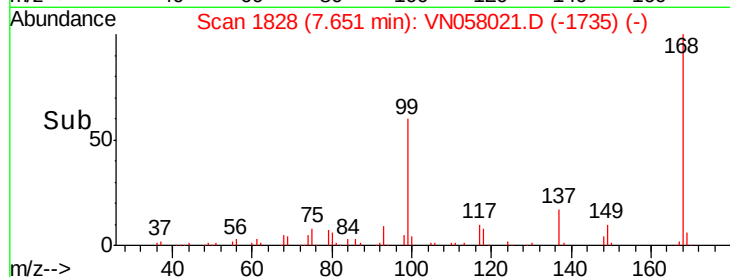
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: 0.217 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058021.D

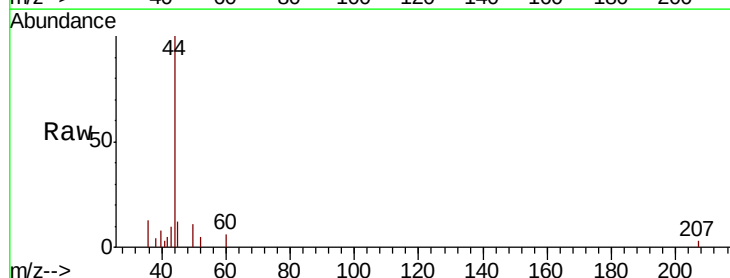
Acq: 13 Sep 2019 17:10

Tgt Ion: 50 Resp: 961

Ion Ratio Lower Upper

50 100

52 48.6 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VN057802.D (-70) (-)

Ion 51.90 (51.60 to 52.60): VN057802.D (-70) (-)

2.04

600

500

400

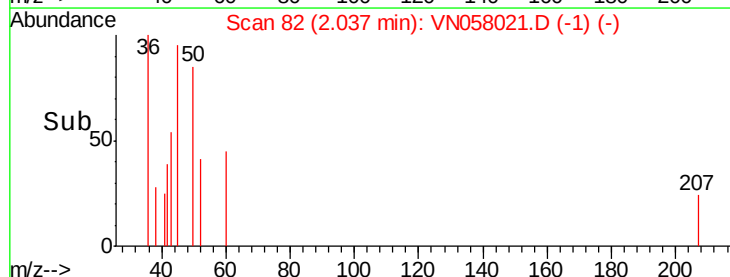
300

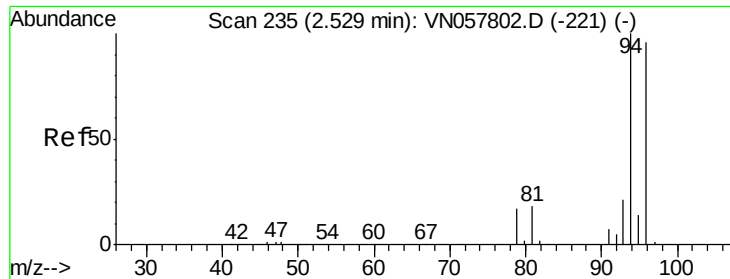
200

100

0

Time--> 2.00 2.02 2.04 2.06 2.08





#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 244

Delta R.T. 0.03 min

Lab File: VN058021.D

Acq: 13 Sep 2019 17:10

Instrument :

MSVOA_N

ClientSampleId :

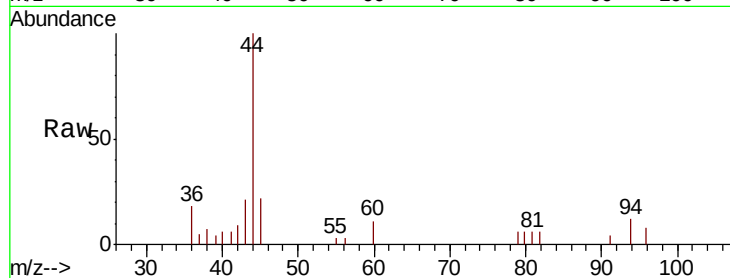
VN0914WBL03

Tgt Ion: 94 Resp: 1070

Ion Ratio Lower Upper

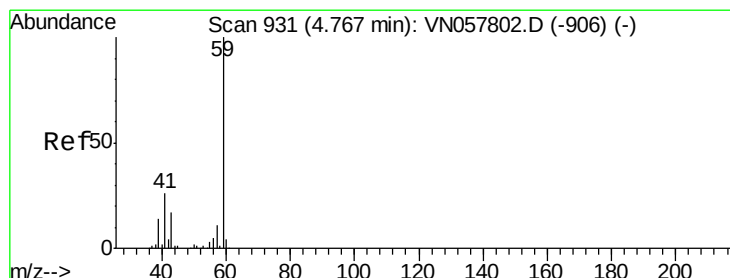
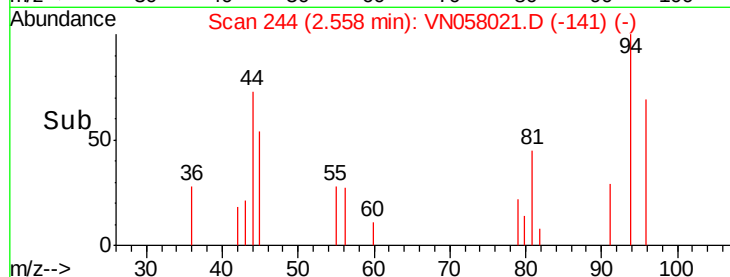
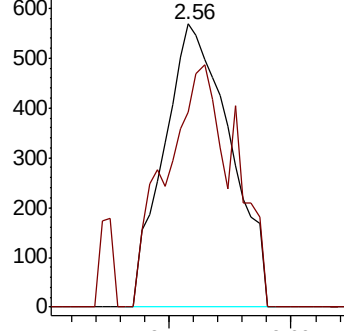
94 100

96 69.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#11

Tert butyl alcohol

Concen: 0.400 ug/l

RT: 4.72 min Scan# 916

Delta R.T. -0.05 min

Lab File: VN058021.D

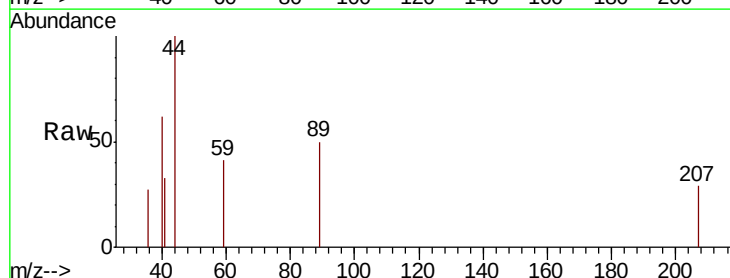
Acq: 13 Sep 2019 17:10

Tgt Ion: 59 Resp: 309

Ion Ratio Lower Upper

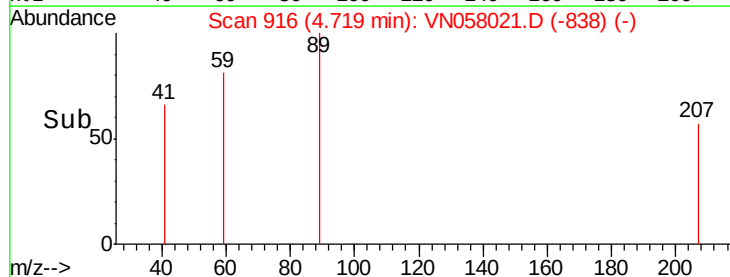
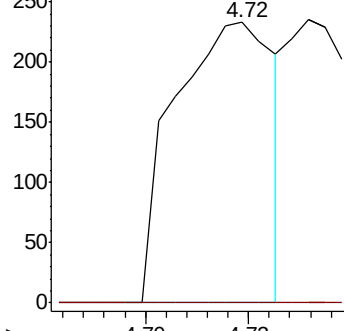
59 100

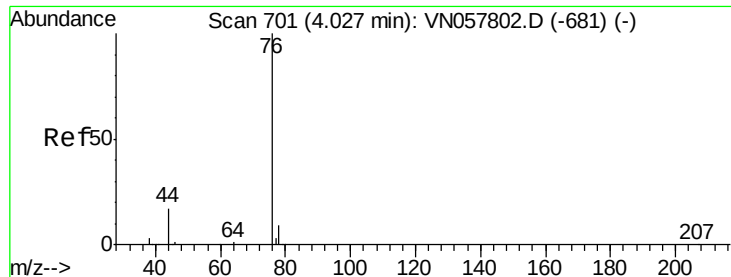
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#17

Carbon Disulfide

Concen: 0.296 ug/l

RT: 4.04 min Scan# 704

Delta R.T. 0.01 min

Lab File: VN058021.D

Acq: 13 Sep 2019 17:10

Instrument :

MSVOA_N

ClientSampleId :

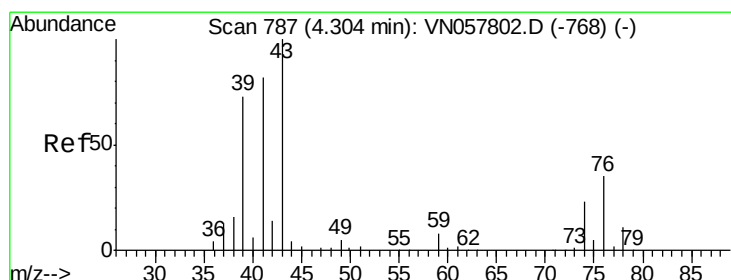
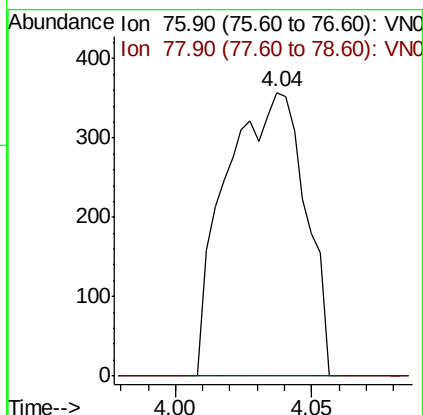
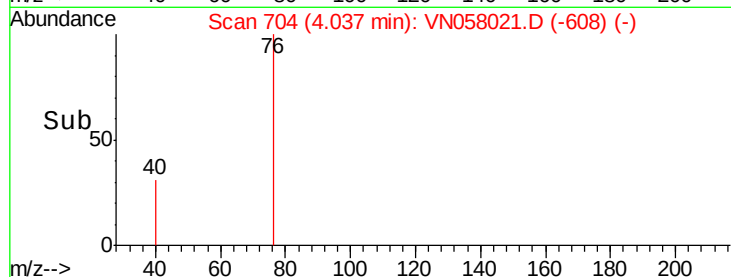
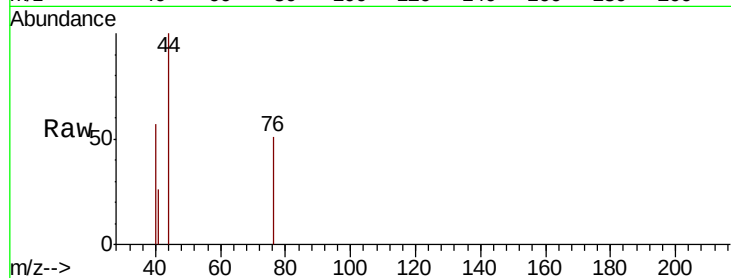
VN0914WBL03

Tgt Ion: 76 Resp: 719

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



#18

Methyl Acetate

Concen: 0.509 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.01 min

Lab File: VN058021.D

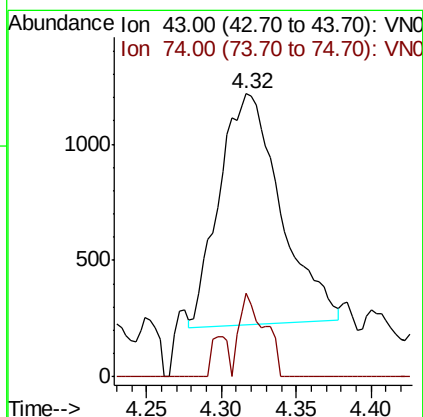
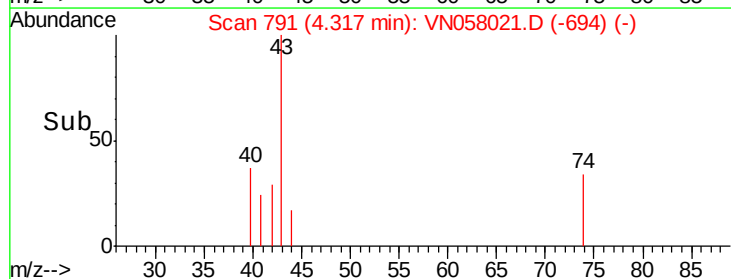
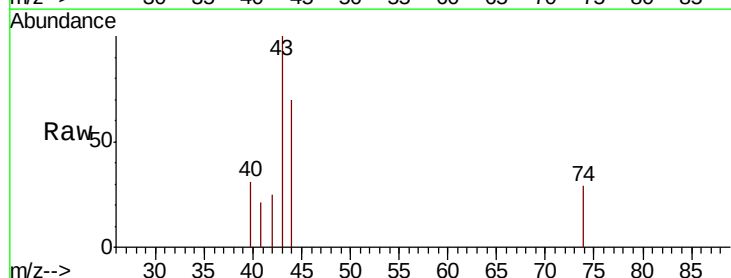
Acq: 13 Sep 2019 17:10

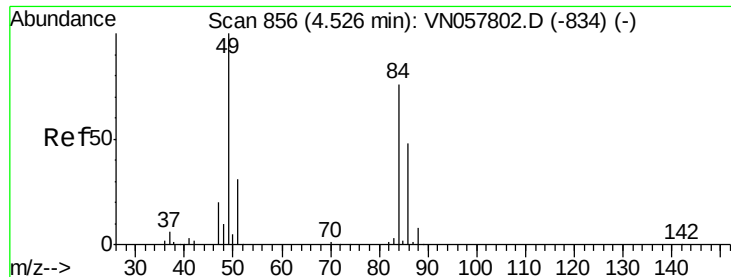
Tgt Ion: 43 Resp: 2837

Ion Ratio Lower Upper

43 100

74 14.9 17.9 26.9#

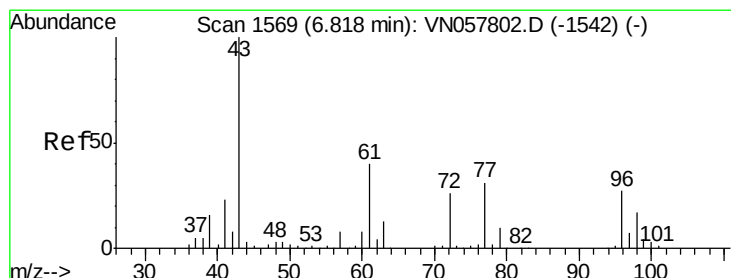
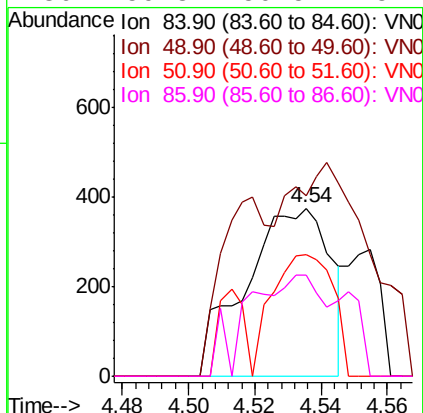
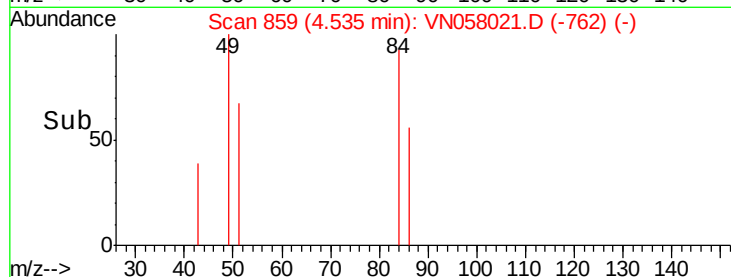
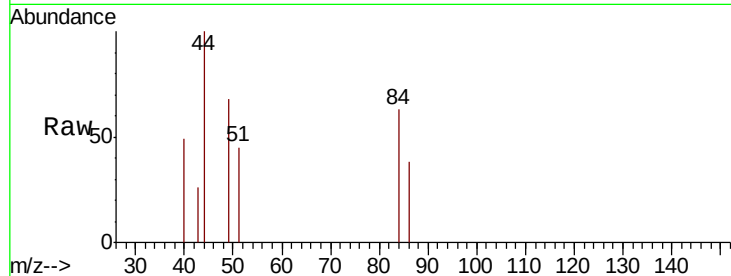




#20
Methylene Chloride
Concen: Below Cal
RT: 4.54 min Scan# 859
Delta R.T. 0.01 min
Lab File: VN058021.D
Acq: 13 Sep 2019 17:10

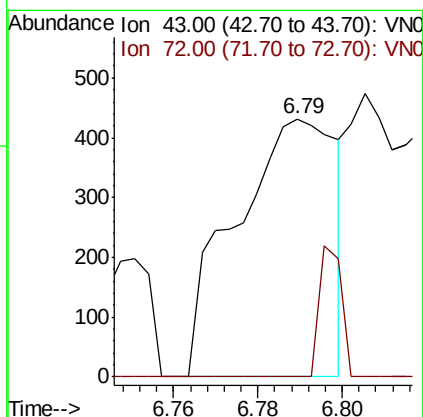
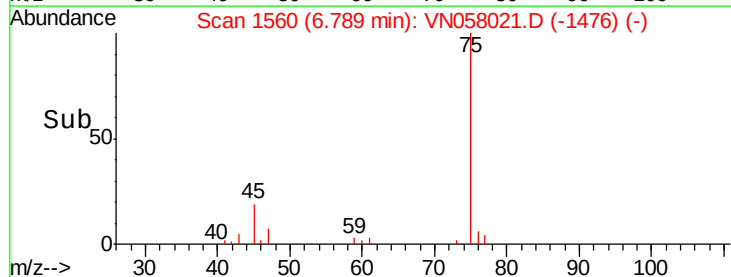
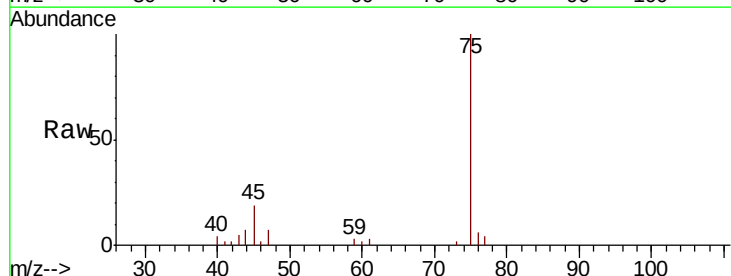
Instrument :
MSVOA_N
ClientSampled :
VN0914WBL03

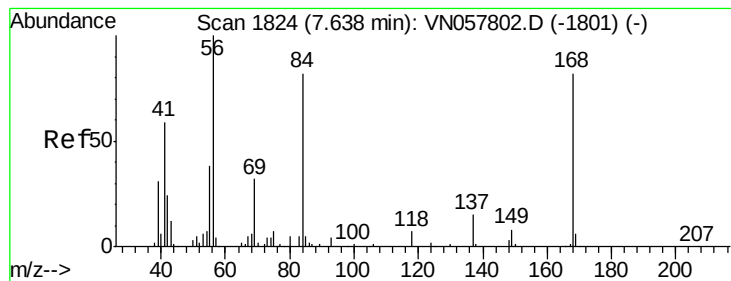
Tgt Ion: 84 Resp: 667
Ion Ratio Lower Upper
84 100
49 107.4 104.8 157.2
51 72.3 33.0 49.4#
86 59.8 50.5 75.7



#25
2-Butanone
Concen: 0.236 ug/l
RT: 6.79 min Scan# 1560
Delta R.T. -0.03 min
Lab File: VN058021.D
Acq: 13 Sep 2019 17:10

Tgt Ion: 43 Resp: 715
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058021.D

Acq: 13 Sep 2019 17:10

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBL03

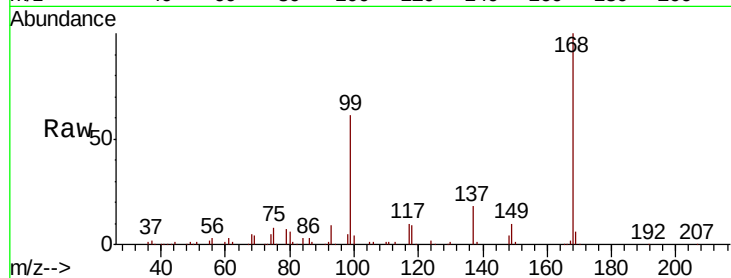
Tgt Ion: 56 Resp: 8038

Ion Ratio Lower Upper

56 100

69 141.6 25.9 38.9#

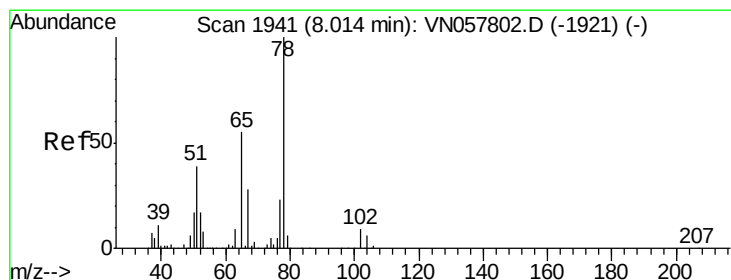
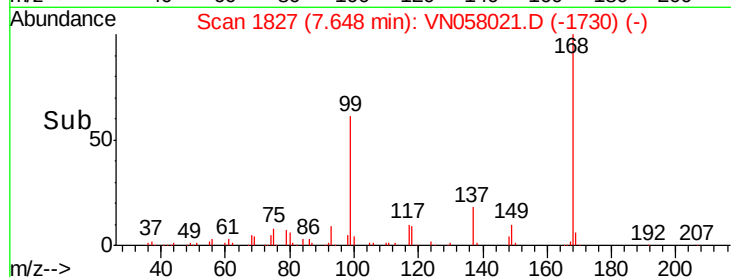
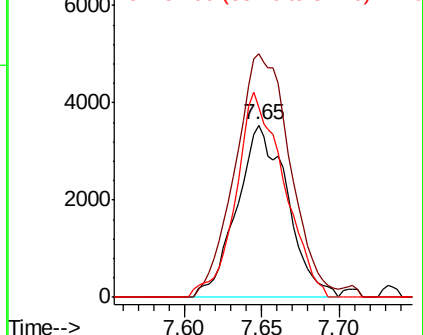
84 110.6 65.6 98.4#



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: 53.267 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058021.D

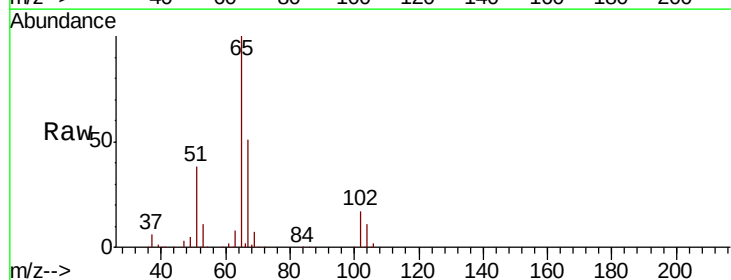
Acq: 13 Sep 2019 17:10

Tgt Ion: 65 Resp: 339625

Ion Ratio Lower Upper

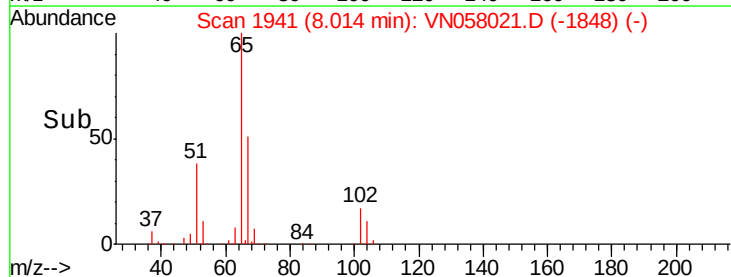
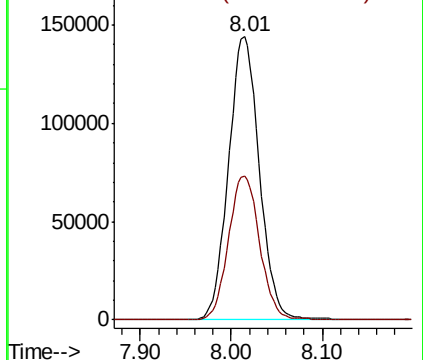
65 100

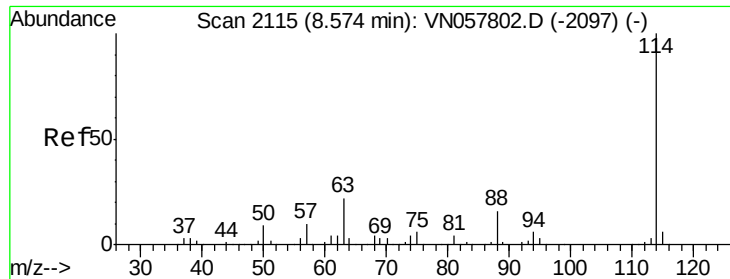
67 51.1 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

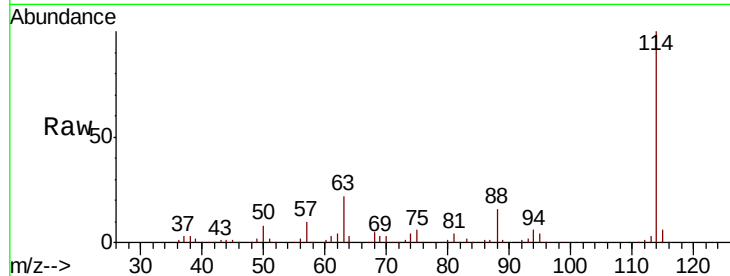




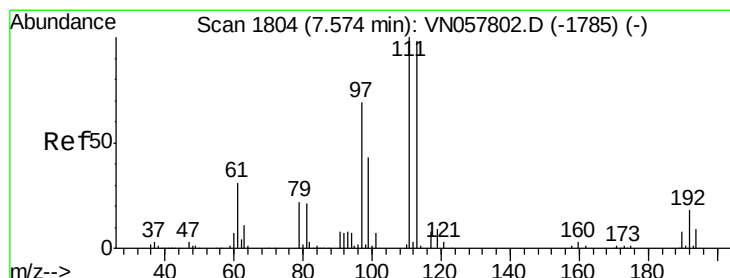
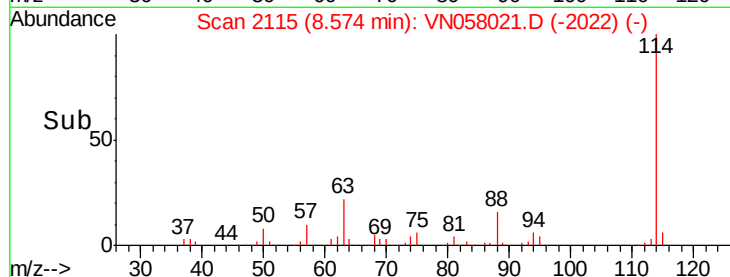
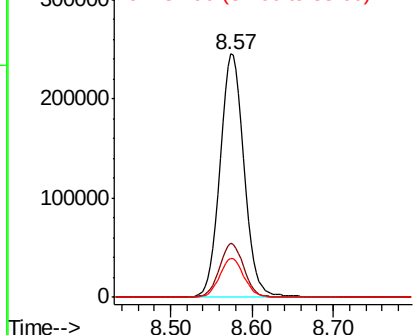
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058021.D
 Acq: 13 Sep 2019 17:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBL03

Tgt Ion:114 Resp: 514169
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 44.0
 88 16.2 0.0 31.4

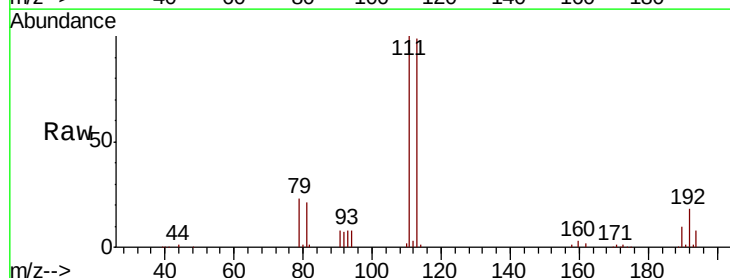


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

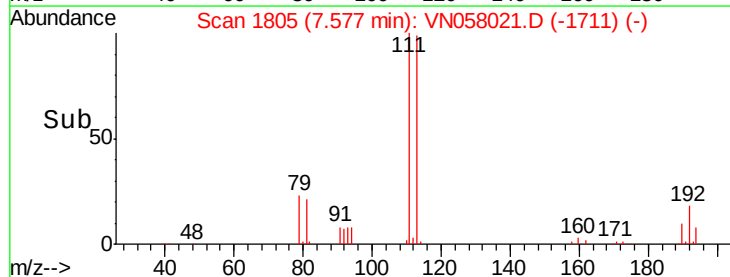
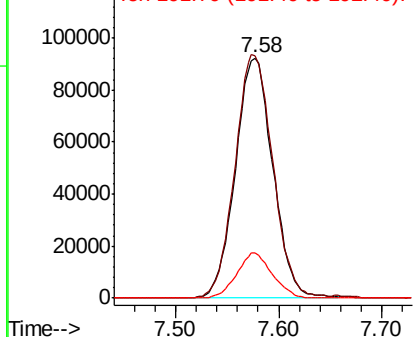


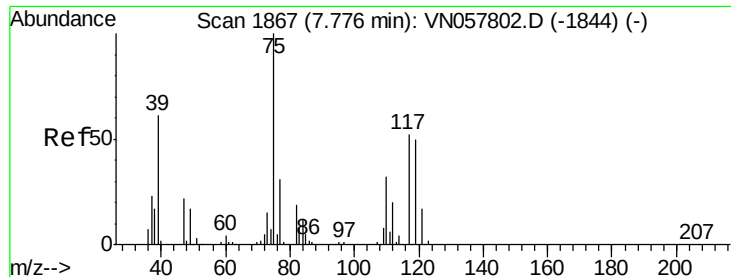
#35
 Dibromofluoromethane
 Concen: 49.233 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058021.D
 Acq: 13 Sep 2019 17:10

Tgt Ion:113 Resp: 233641
 Ion Ratio Lower Upper
 113 100
 111 102.2 81.3 121.9
 192 17.7 14.6 22.0



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: 4.554 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN058021.D

Acq: 13 Sep 2019 17:10

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBL03

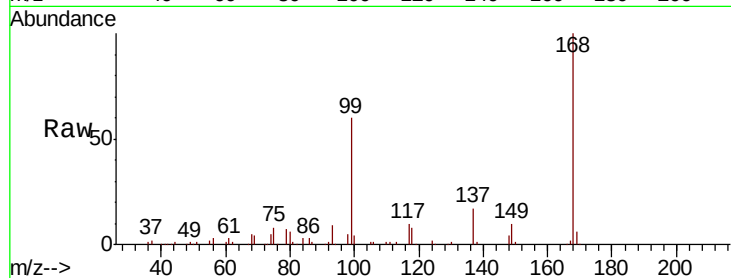
Tgt Ion: 75 Resp: 27156

Ion Ratio Lower Upper

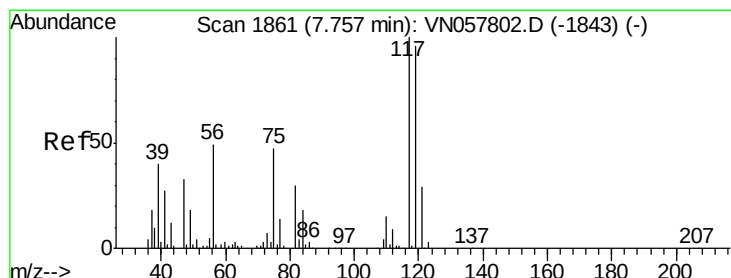
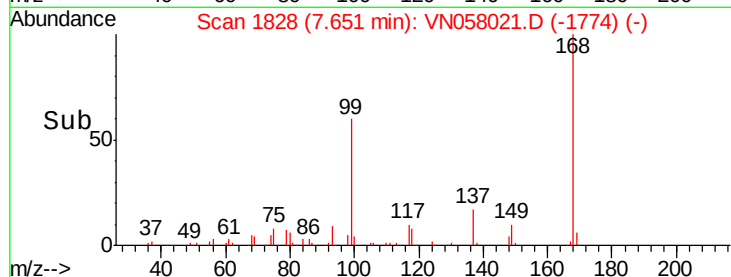
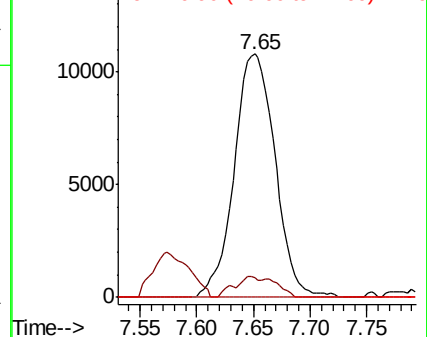
75 100

110 5.5 16.3 48.9#

77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VN0



#38

Carbon Tetrachloride

Concen: 5.854 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.10 min

Lab File: VN058021.D

Acq: 13 Sep 2019 17:10

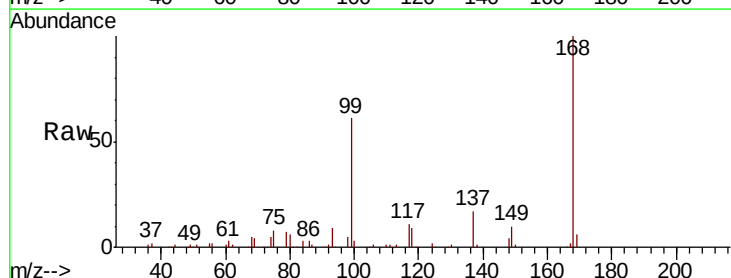
Tgt Ion: 117 Resp: 31868

Ion Ratio Lower Upper

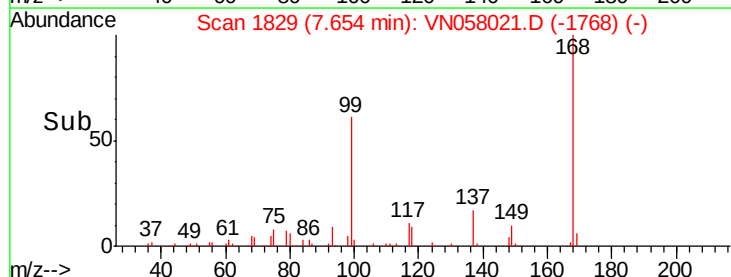
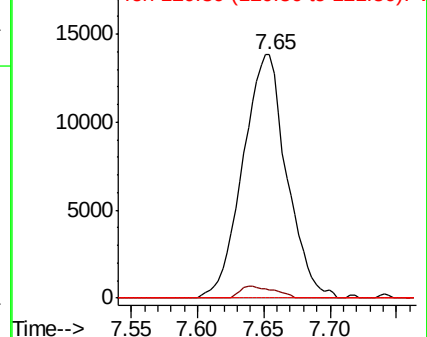
117 100

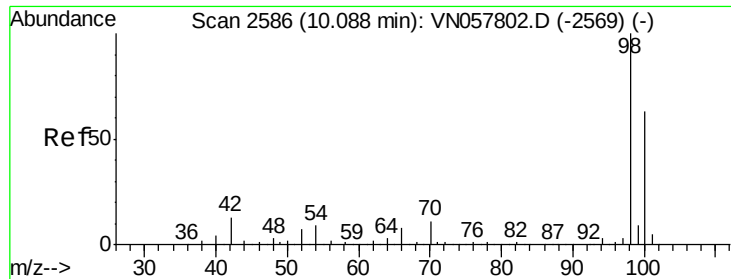
119 3.6 76.9 115.3#

121 0.0 23.4 35.2#



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





#50

Toluene-d8

Concen: 49.902 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058021.D

Acq: 13 Sep 2019 17:10

Instrument :

MSVOA_N

ClientSampled :

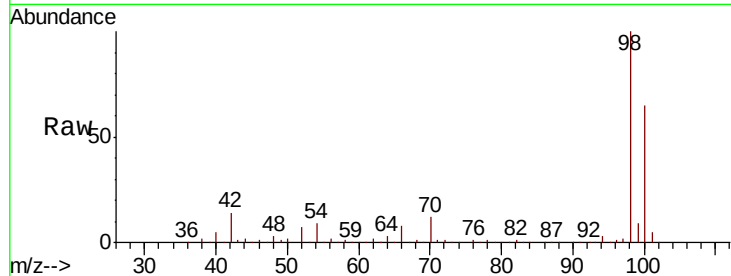
VN0914WBL03

Tgt Ion: 98 Resp: 919446

Ion Ratio Lower Upper

98 100

100 63.6 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

500000

400000

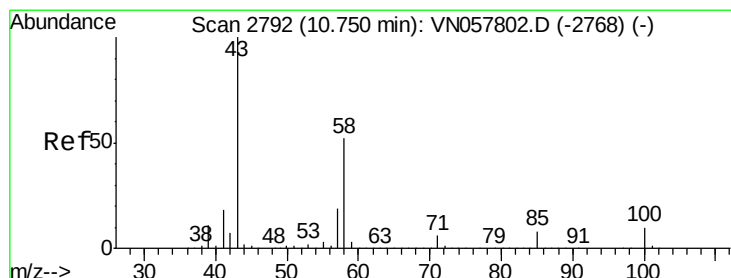
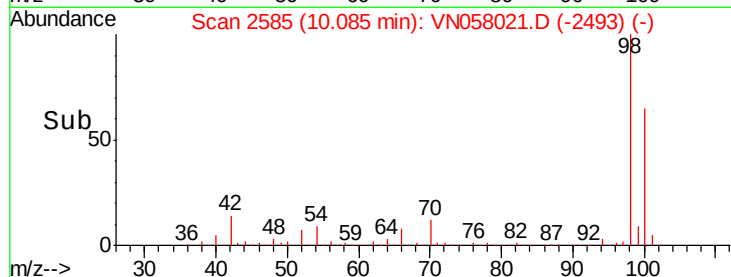
300000

200000

100000

0

Time-->



#59

2-Hexanone

Concen: 0.212 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.01 min

Lab File: VN058021.D

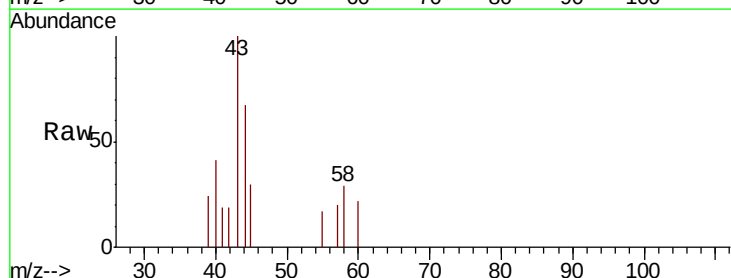
Acq: 13 Sep 2019 17:10

Tgt Ion: 43 Resp: 973

Ion Ratio Lower Upper

43 100

58 42.2 25.6 76.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.76

1000

800

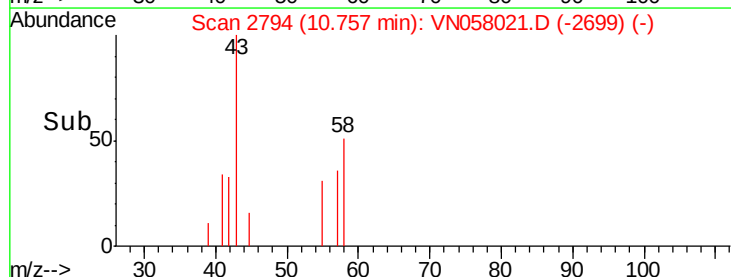
600

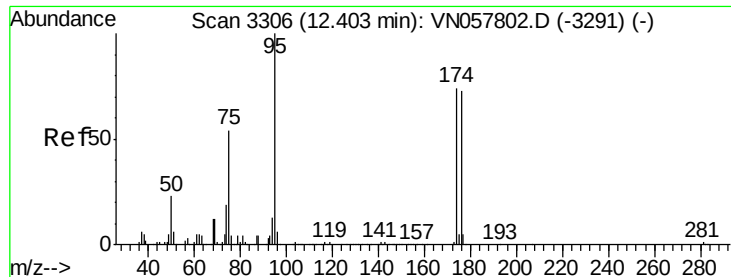
400

200

0

Time-->





#62

4-Bromofluorobenzene

Concen: 42.039 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058021.D

Acq: 13 Sep 2019 17:10

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBL03

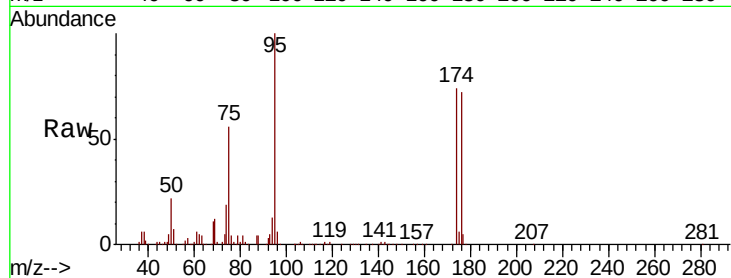
Tgt Ion: 95 Resp: 295179

Ion Ratio Lower Upper

95 100

174 74.1 0.0 150.2

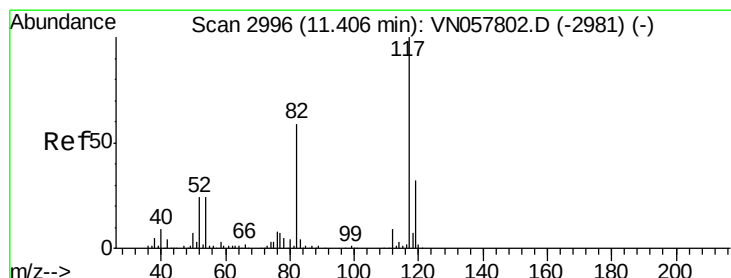
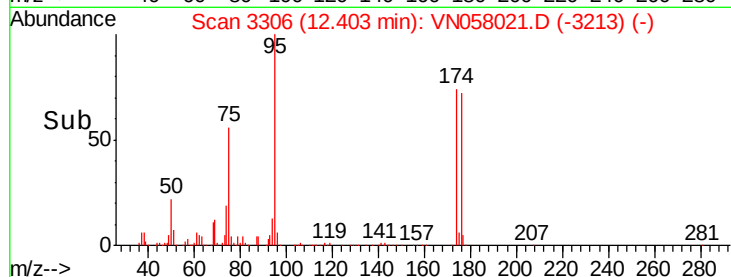
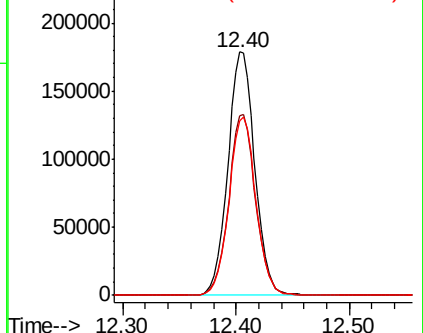
176 73.4 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN058021.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN058021.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN058021.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058021.D

Acq: 13 Sep 2019 17:10

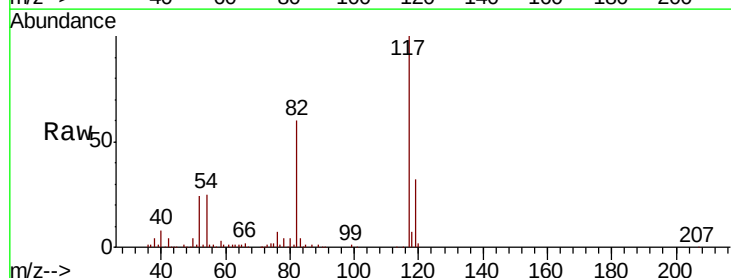
Tgt Ion: 117 Resp: 458796

Ion Ratio Lower Upper

117 100

82 59.8 47.2 70.8

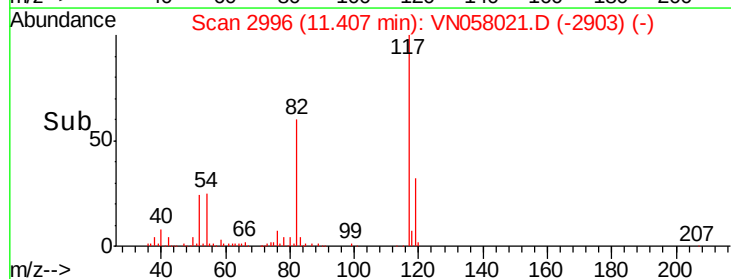
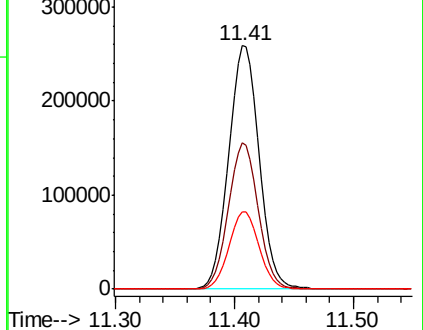
119 31.9 25.3 37.9

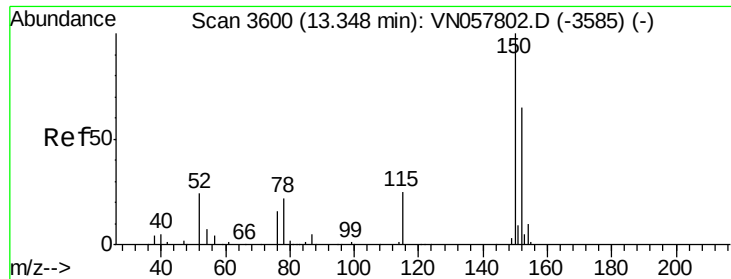


Abundance Ion 116.90 (116.60 to 117.60): VN058021.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN058021.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN058021.D (-2981) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058021.D

Acq: 13 Sep 2019 17:10

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBL03

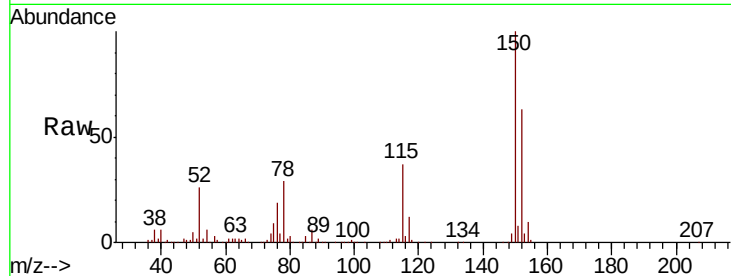
Tgt Ion:152 Resp: 236136

Ion Ratio Lower Upper

152 100

115 59.8 30.3 91.0

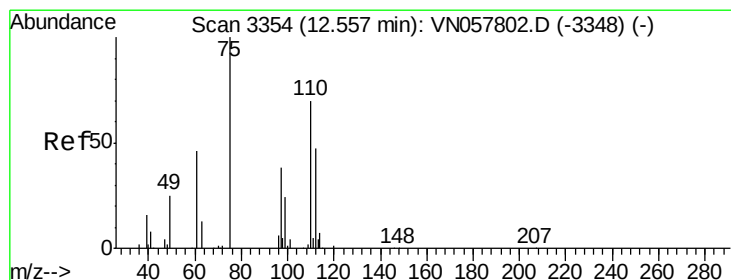
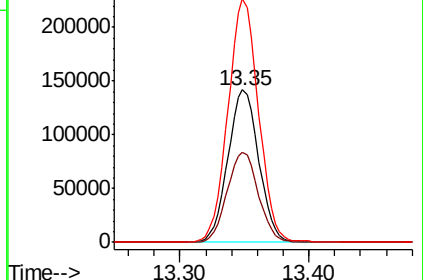
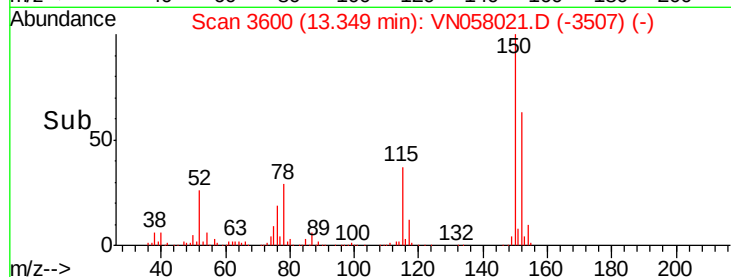
150 157.3 0.0 352.4



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



#76

1,2,3-Trichloropropane

Concen: 30.864 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058021.D

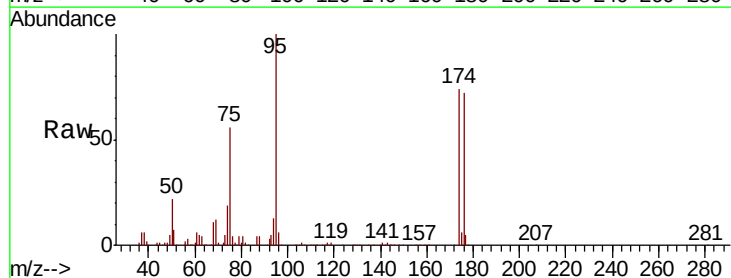
Acq: 13 Sep 2019 17:10

Tgt Ion: 75 Resp: 164872

Ion Ratio Lower Upper

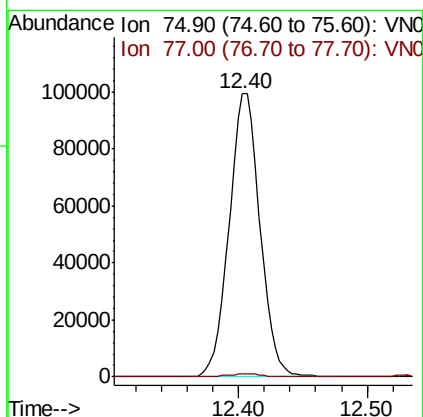
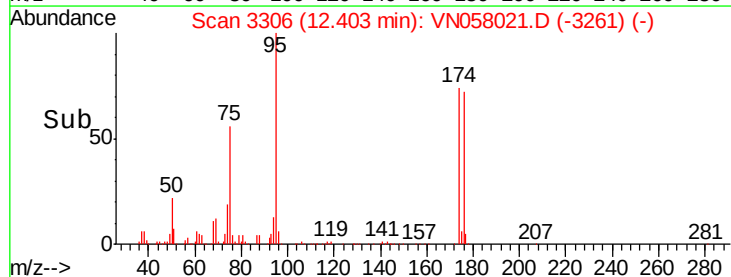
75 100

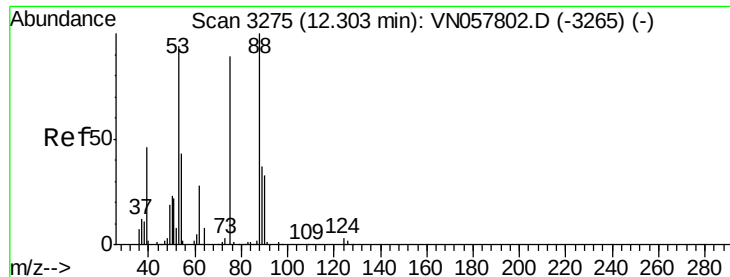
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 108.613 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058021.D

Acq: 13 Sep 2019 17:10

Instrument :

MSVOA_N

ClientSampled :

VN0914WBL03

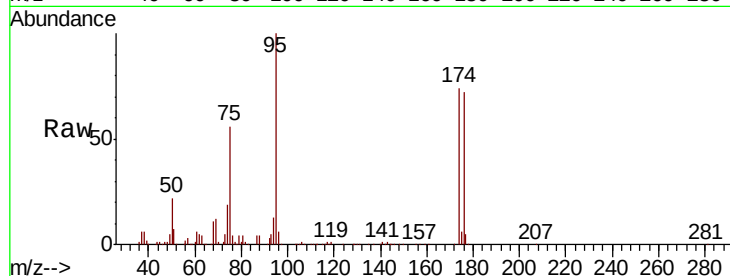
Tgt Ion: 75 Resp: 164872

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

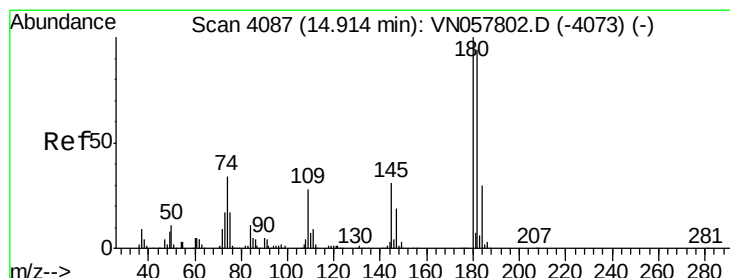
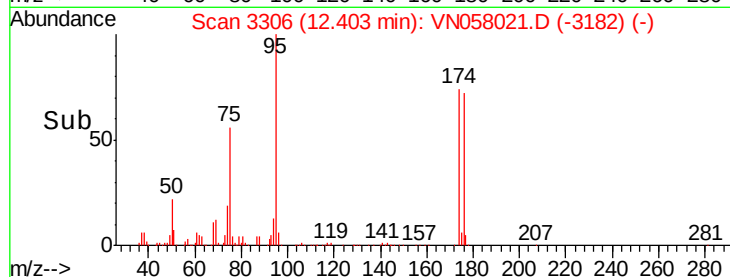
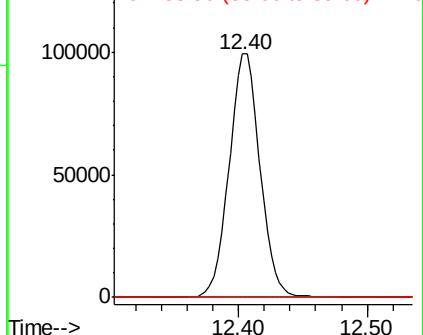
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#93

1,2,4-Trichlorobenzene

Concen: 0.367 ug/l

RT: 14.92 min Scan# 4090

Delta R.T. 0.01 min

Lab File: VN058021.D

Acq: 13 Sep 2019 17:10

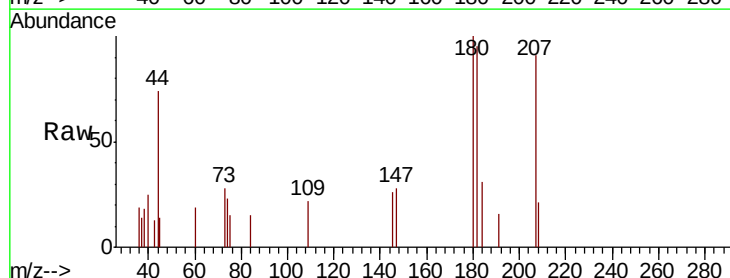
Tgt Ion: 180 Resp: 2012

Ion Ratio Lower Upper

180 100

182 114.8 46.9 140.8

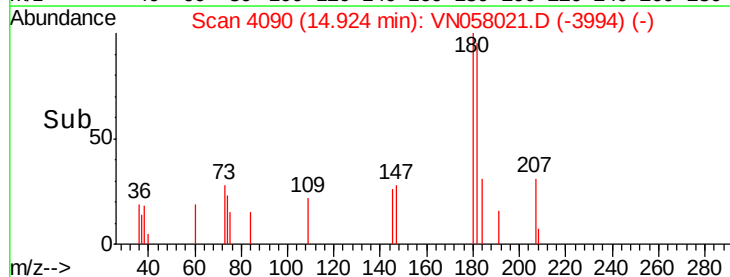
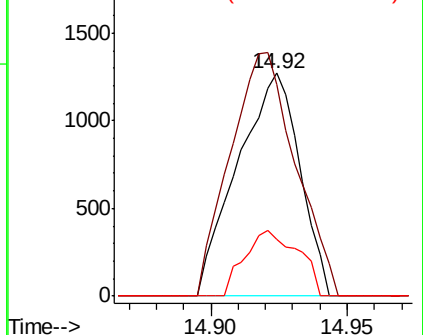
145 25.5 14.9 44.7

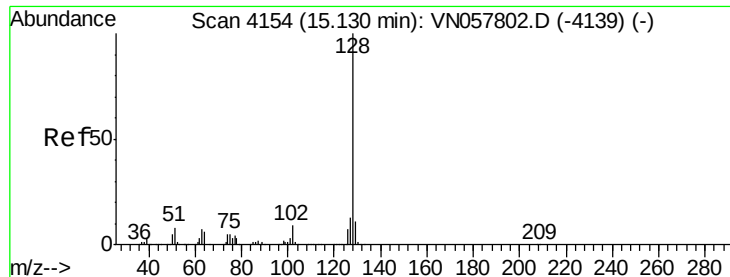


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN058021.D

Acq: 13 Sep 2019 17:10

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBL03

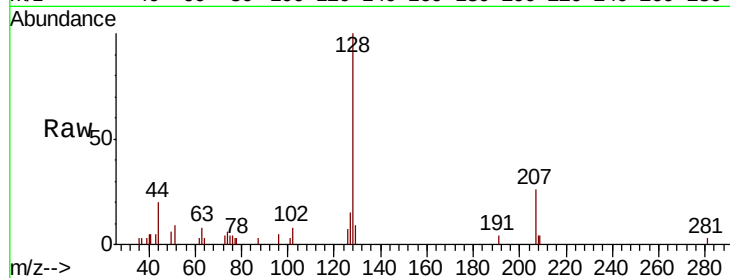
Tgt Ion:128 Resp: 10180

Ion Ratio Lower Upper

128 100

127 11.7 10.3 15.5

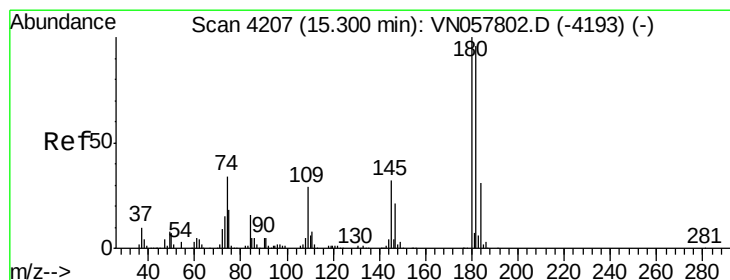
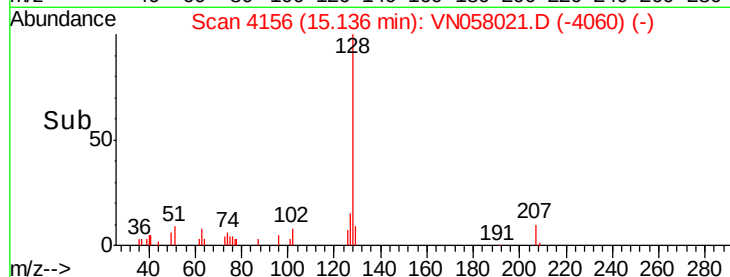
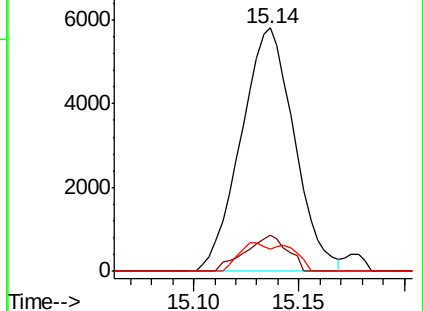
129 6.7 8.6 12.8#



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



#96

1,2,3-Trichlorobenzene

Concen: 1.496 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. -0.00 min

Lab File: VN058021.D

Acq: 13 Sep 2019 17:10

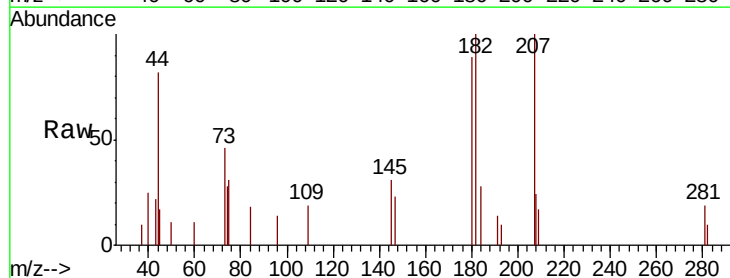
Tgt Ion:180 Resp: 2427

Ion Ratio Lower Upper

180 100

182 117.8 48.3 144.8

145 32.7 16.3 48.8



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

