

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091619\
 Data File : VN058118.D
 Acq On : 16 Sep 2019 15:01
 Operator : JC/SP
 Sample : K4719-29
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T4-3-(0)-HELLGATE

Quant Time: Sep 17 03:51:41 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	302240	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	514047	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	480528	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	254965	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	362906	59.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.56%	
35) Dibromofluoromethane	7.58	113	247873	52.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.48%	
50) Toluene-d8	10.08	98	970319	52.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.36%	
62) 4-Bromofluorobenzene	12.41	95	323457	46.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.16%	

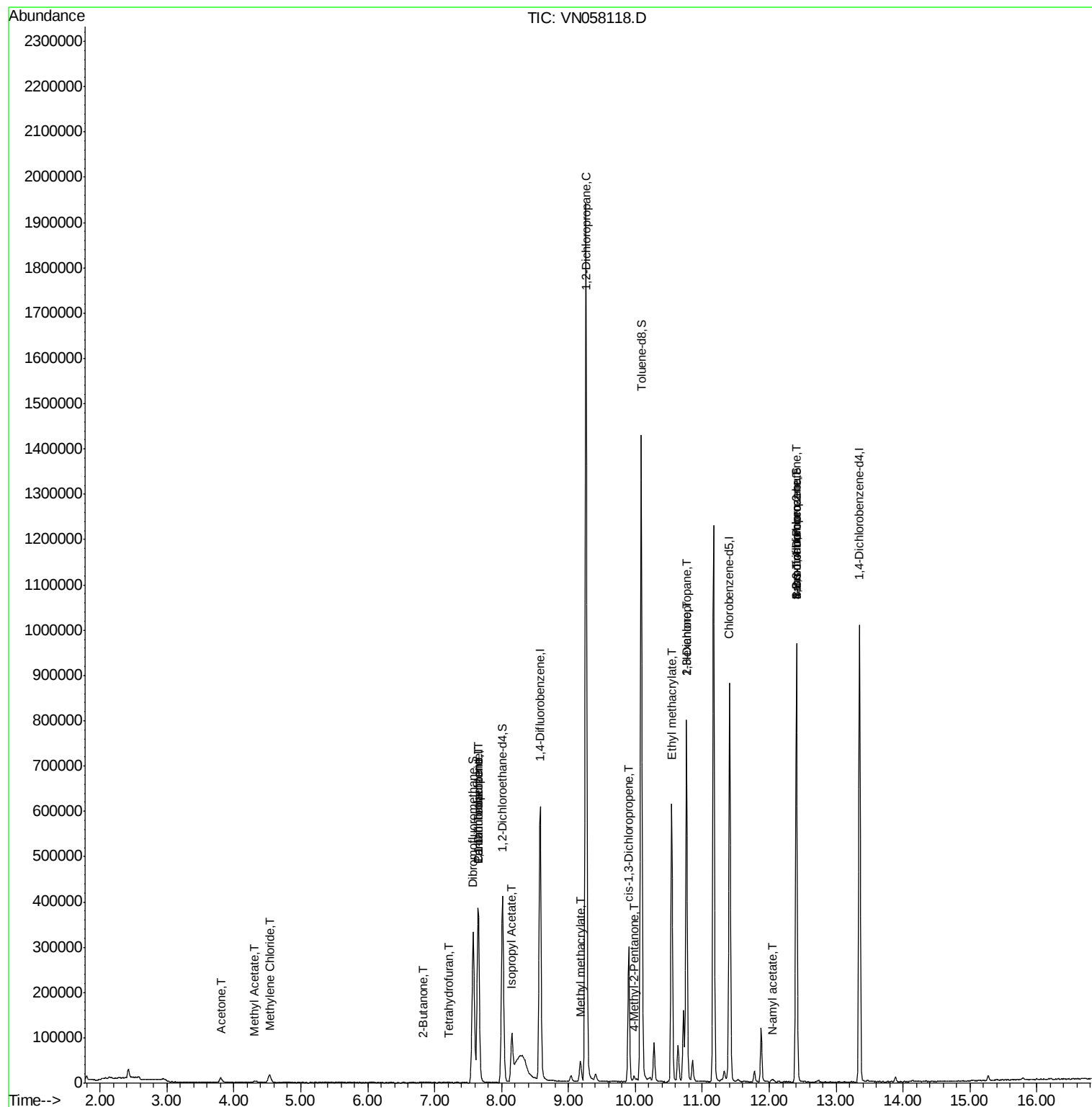
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	228	Below Cal	#	2
16) Acetone	3.80	43	17193	8.567	ug/l	97
18) Methyl Acetate	4.31	43	5994	1.120	ug/l #	91
20) Methylene Chloride	4.54	84	12693	2.144	ug/l	94
25) 2-Butanone	6.83	43	2466	0.849	ug/l #	82
29) Tetrahydrofuran	7.22	42	1486	0.830	ug/l #	38
31) Cyclohexane	7.65	56	7517	Below Cal	#	7
36) 1,1-Dichloropropene	7.65	75	25789	4.326	ug/l #	51
38) Carbon Tetrachloride	7.65	117	30363	5.578	ug/l #	15
43) Isopropyl Acetate	8.15	43	134370	12.972	ug/l #	87
45) 1,2-Dichloropropane	9.26	63	2101	0.402	ug/l #	44
48) Methyl methacrylate	9.17	41	6851	1.304	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	8831	1.441	ug/l #	87
54) cis-1,3-Dichloropropene	9.90	75	49797	6.796	ug/l #	69
56) Ethyl methacrylate	10.54	69	2310	0.320	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	8289	1.004	ug/l #	43
59) 2-Hexanone	10.76	43	121465	26.438	ug/l #	53
71) Bromoform	12.40	173	1023	0.376	ug/l #	1
74) N-amyl acetate	12.04	43	5412	0.629	ug/l #	47
76) 1,2,3-Trichloropropane	12.40	75	178309	30.915	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	178309	108.790	ug/l #	6
95) Naphthalene	15.13	128	748	Below Cal	#	69

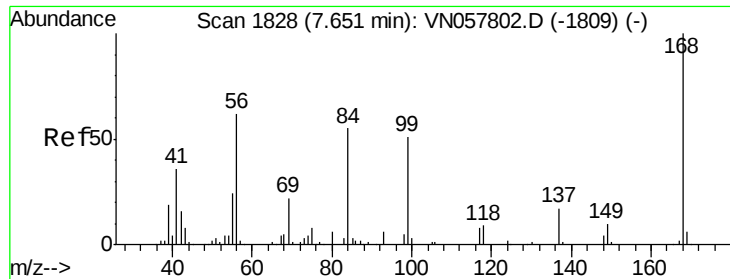
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN058118.D

Acq: 16 Sep 2019 15:01

Instrument :

MSVOA_N

ClientSampleId :

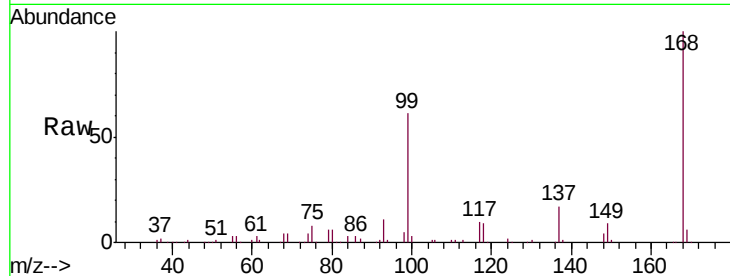
T4-3-(0)-HELLGATE

Tgt Ion:168 Resp: 302240

Ion Ratio Lower Upper

168 100

99 60.7 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

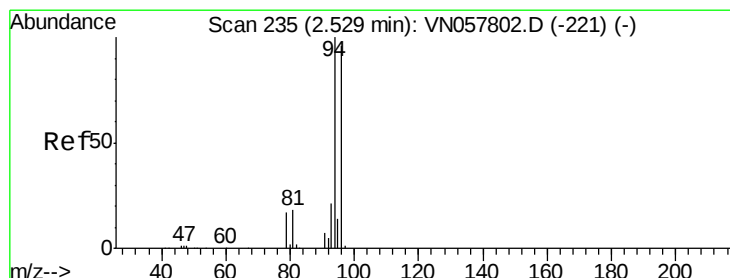
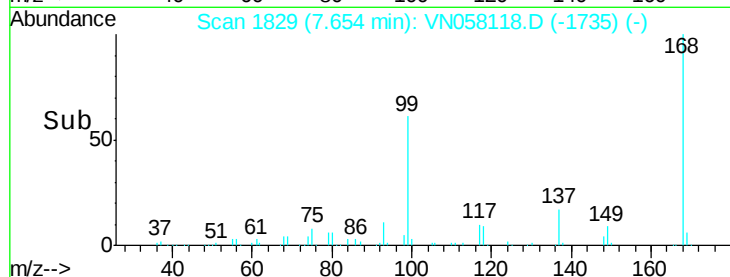
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 241

Delta R.T. 0.02 min

Lab File: VN058118.D

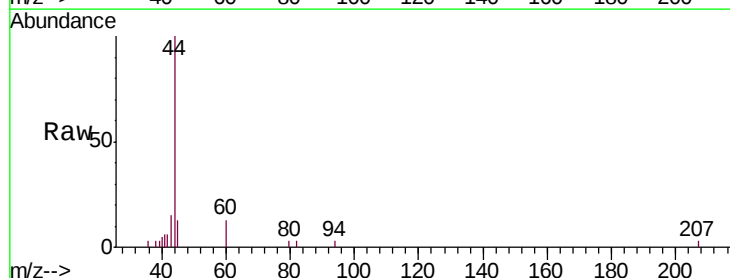
Acq: 16 Sep 2019 15:01

Tgt Ion: 94 Resp: 228

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.55

250

200

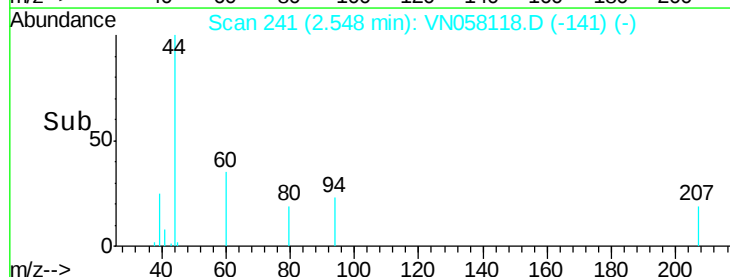
150

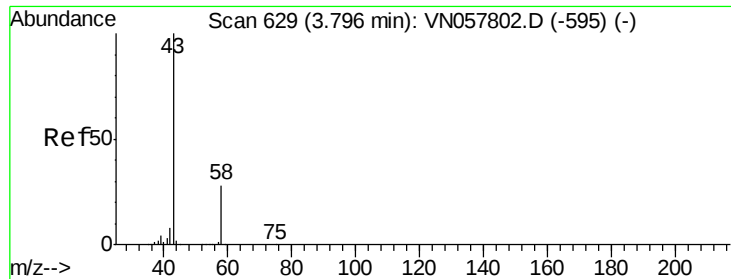
100

50

0

Time-->





#16

Acetone

Concen: 8.567 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058118.D

Acq: 16 Sep 2019 15:01

Instrument :

MSVOA_N

ClientSampleId :

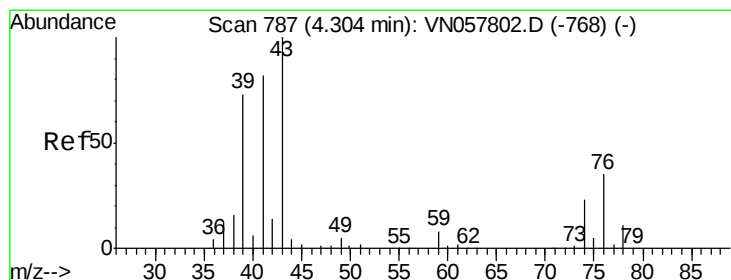
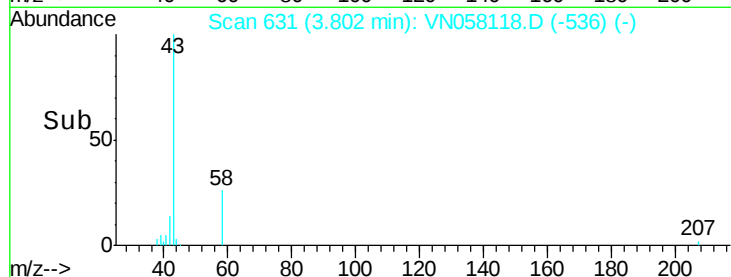
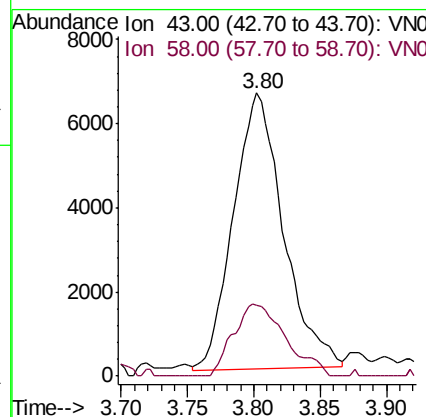
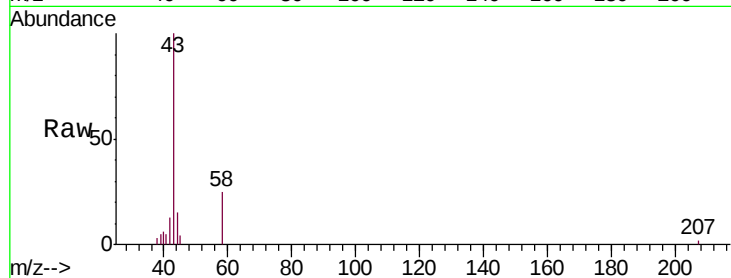
T4-3-(0)-HELLGATE

Tgt Ion: 43 Resp: 17193

Ion Ratio Lower Upper

43 100

58 26.1 22.2 33.2



#18

Methyl Acetate

Concen: 1.120 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.01 min

Lab File: VN058118.D

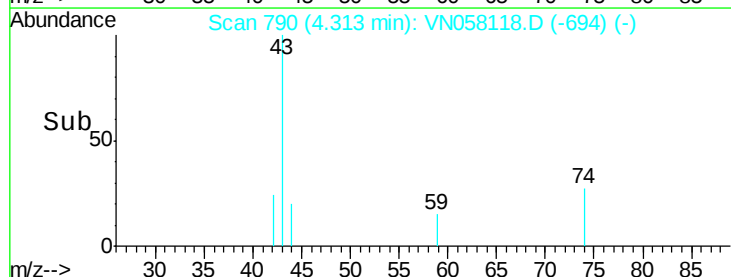
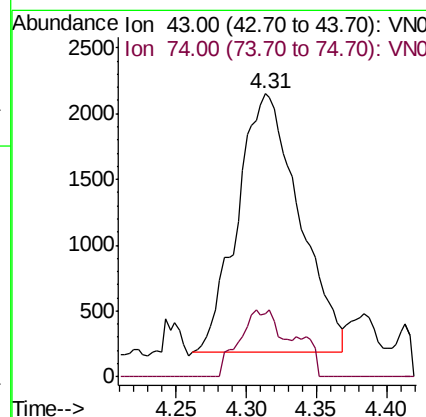
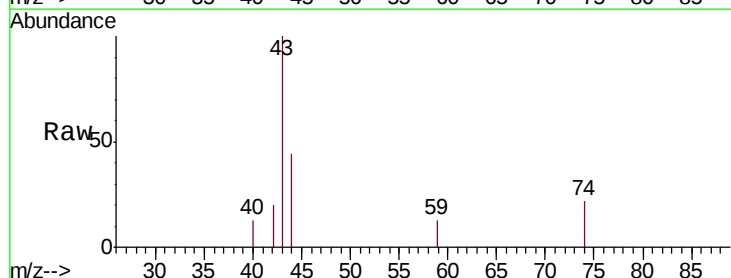
Acq: 16 Sep 2019 15:01

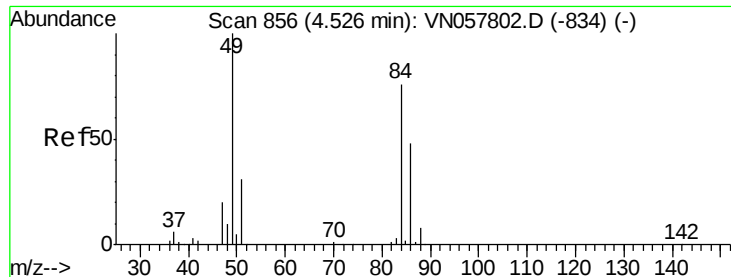
Tgt Ion: 43 Resp: 5994

Ion Ratio Lower Upper

43 100

74 17.9 17.9 26.9#

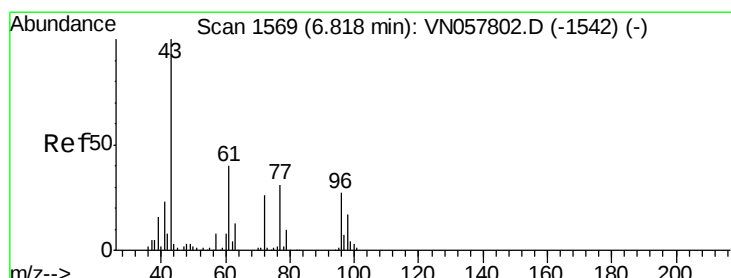
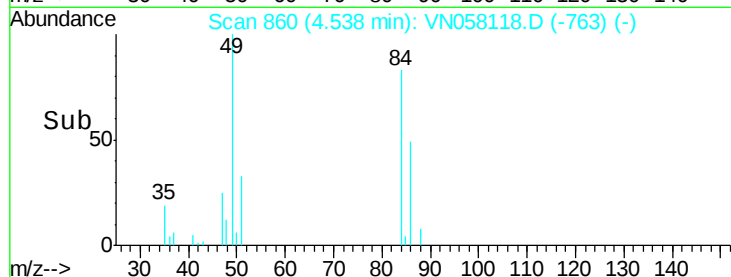
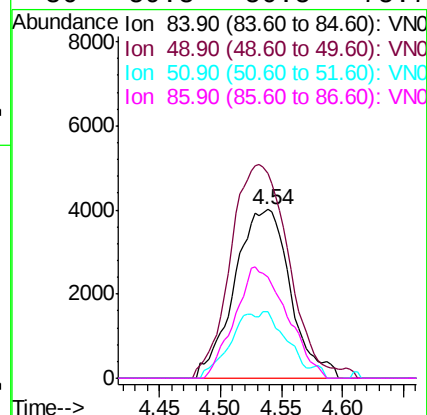
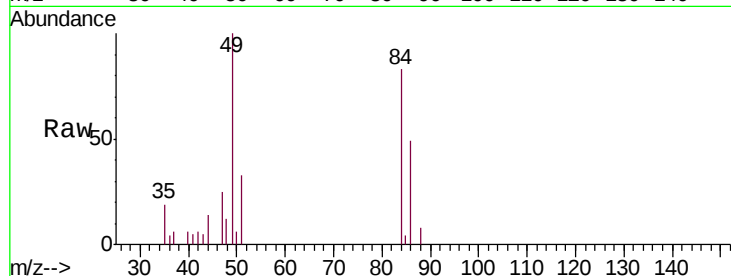




#20
Methylene Chloride
Concen: 2.144 ug/l
RT: 4.54 min Scan# 860
Delta R.T. 0.01 min
Lab File: VN058118.D
Acq: 16 Sep 2019 15:01

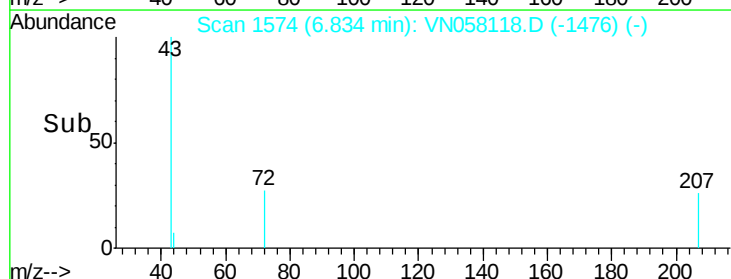
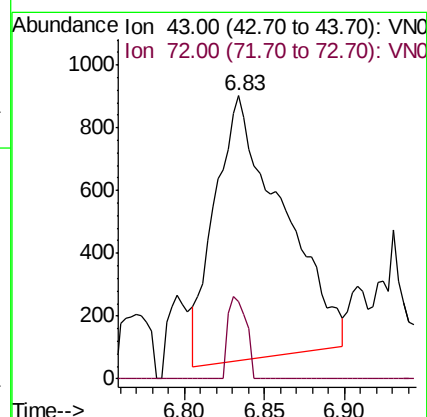
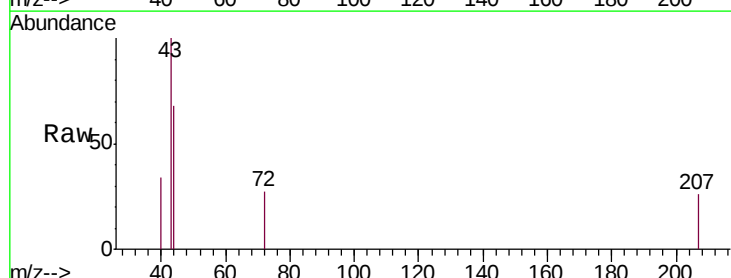
Instrument :
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ClientSampleId :
T4-3(0)-HELLGATE

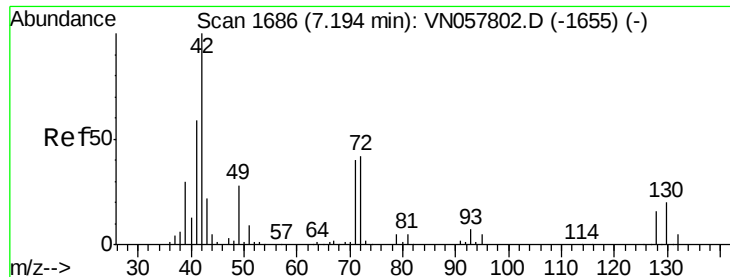
Tgt Ion: 84 Resp: 12693
Ion Ratio Lower Upper
84 100
49 121.2 104.8 157.2
51 39.6 33.0 49.4
86 59.8 50.5 75.7



#25
2-Butanone
Concen: 0.849 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN058118.D
Acq: 16 Sep 2019 15:01

Tgt Ion: 43 Resp: 2466
Ion Ratio Lower Upper
43 100
72 34.7 20.6 30.8#





#29

Tetrahydrofuran

Concen: 0.830 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.02 min

Lab File: VN058118.D

Acq: 16 Sep 2019 15:01

Instrument :

MSVOA_N

ClientSampleId :

T4-3(0)-HELLGATE

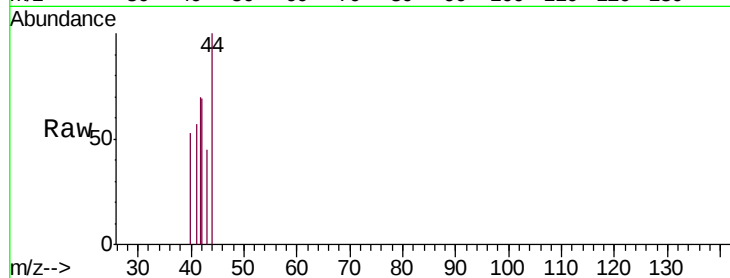
Tgt Ion: 42 Resp: 1486

Ion Ratio Lower Upper

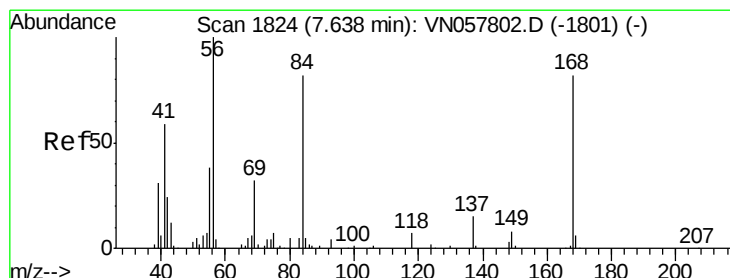
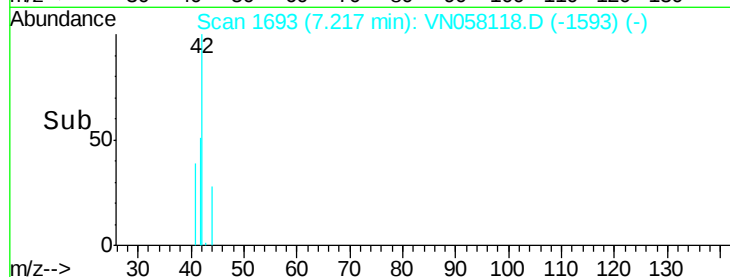
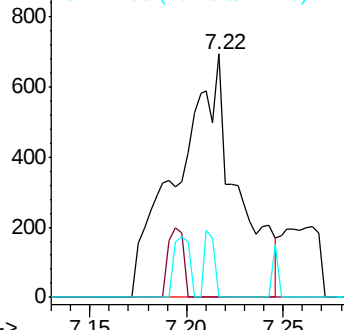
42 100

72 0.0 33.7 50.5#

71 4.6 31.9 47.9#



Abundance Ion 42.00 (41.70 to 42.70): VNO
Ion 72.00 (71.70 to 72.70): VNO
Ion 71.00 (70.70 to 71.70): VNO



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1829

Delta R.T. 0.02 min

Lab File: VN058118.D

Acq: 16 Sep 2019 15:01

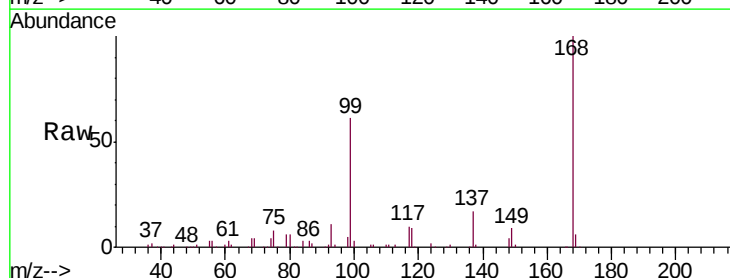
Tgt Ion: 56 Resp: 7517

Ion Ratio Lower Upper

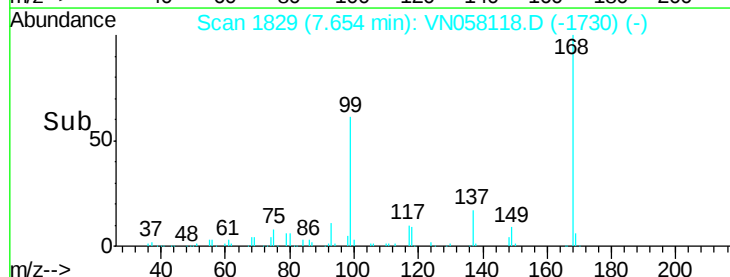
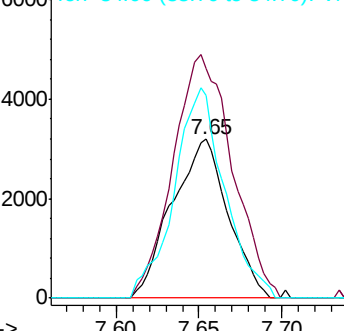
56 100

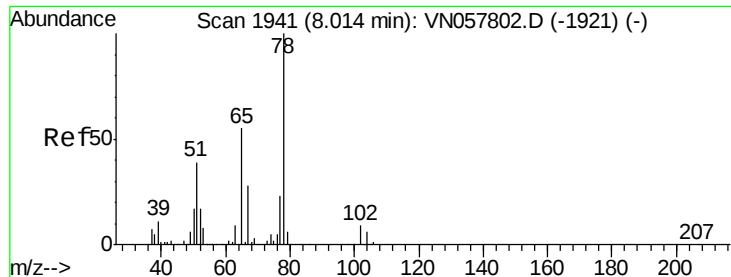
69 144.6 25.9 38.9#

84 127.5 65.6 98.4#



Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

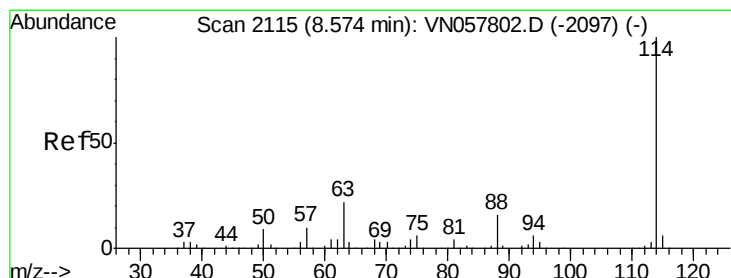
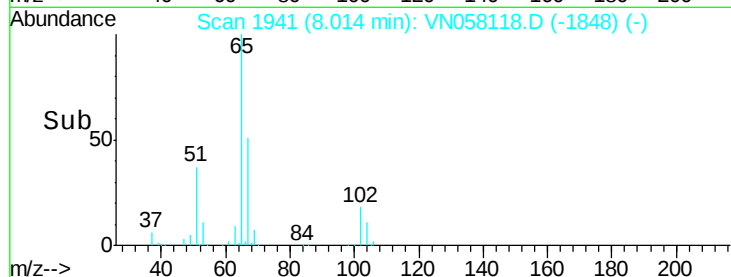
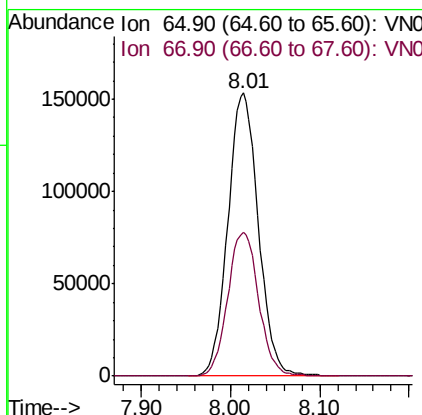
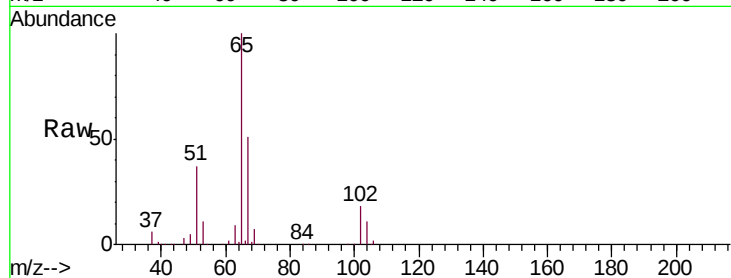




#33
 1,2-Dichloroethane-d4
 Concen: 59.283 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058118.D
 Acq: 16 Sep 2019 15:01

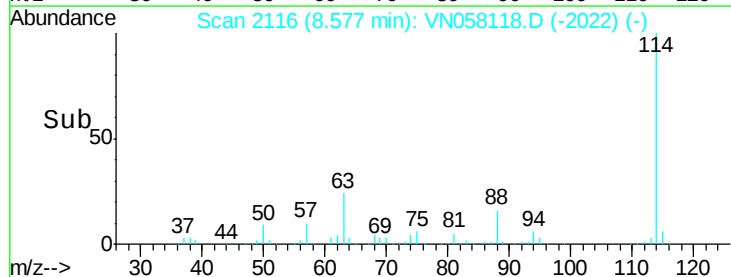
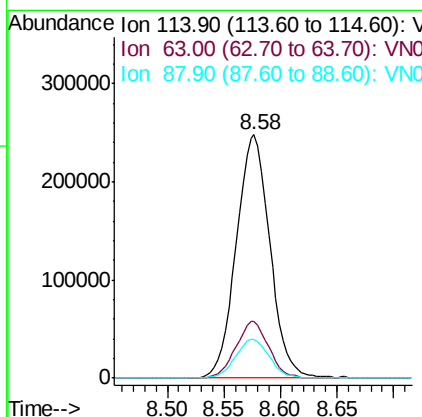
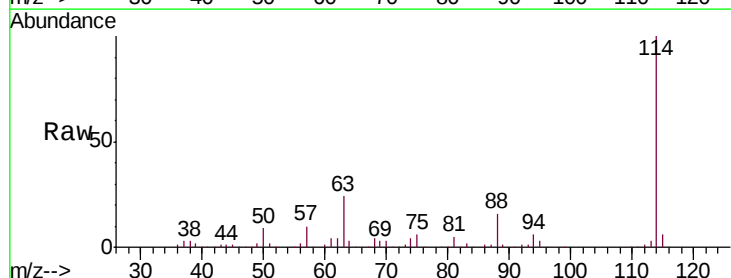
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 T4-3-(0)-HELLGATE

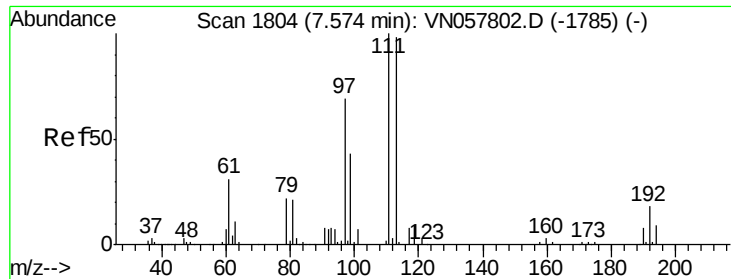
Tgt Ion: 65 Resp: 362906
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058118.D
 Acq: 16 Sep 2019 15:01

Tgt Ion: 114 Resp: 514047
 Ion Ratio Lower Upper
 114 100
 63 23.5 0.0 44.0
 88 15.8 0.0 31.4

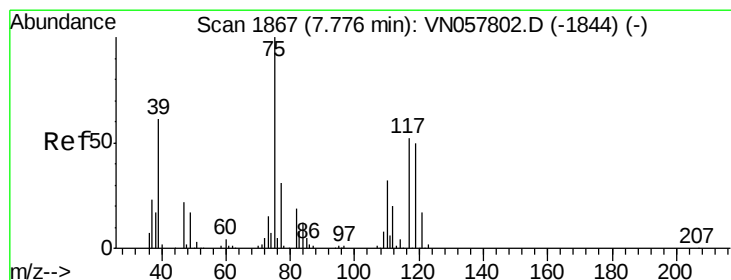
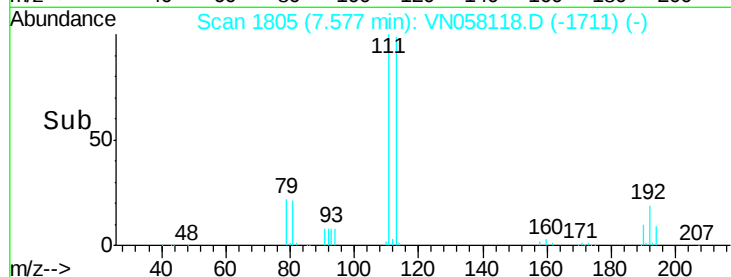
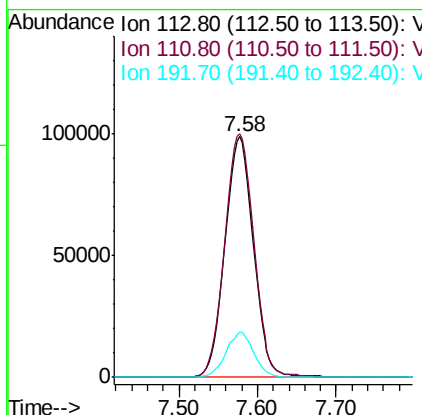
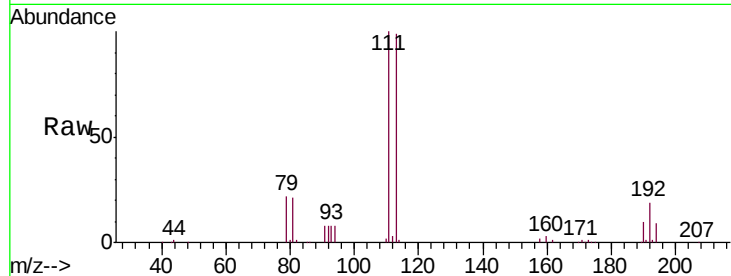




#35
 Dibromofluoromethane
 Concen: 52.245 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058118.D
 Acq: 16 Sep 2019 15:01

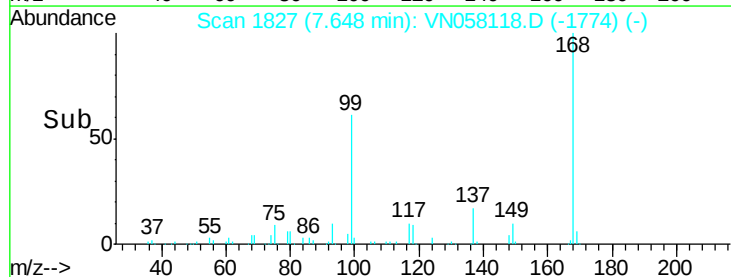
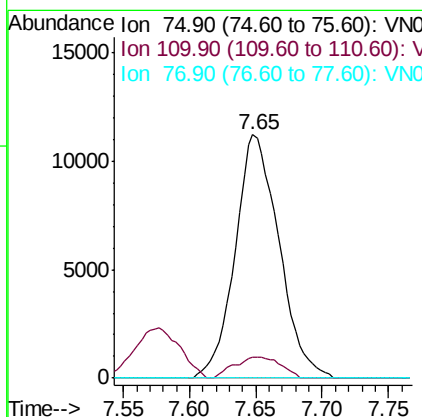
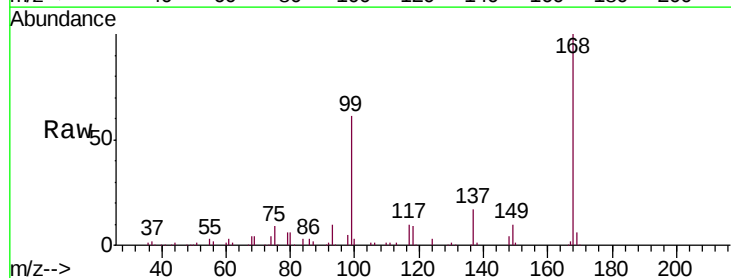
Instrument :
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 T4-3(0)-HELLGATE

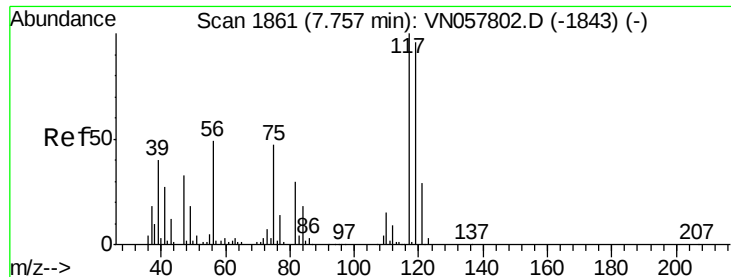
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.7	81.3	121.9
192	18.3	14.6	22.0



#36
 1,1-Dichloropropene
 Concen: 4.326 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058118.D
 Acq: 16 Sep 2019 15:01

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	16.3	48.9#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 5.578 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058118.D

Acq: 16 Sep 2019 15:01

Instrument :

MSVOA_N

ClientSampleId :

T4-3(0)-HELLGATE

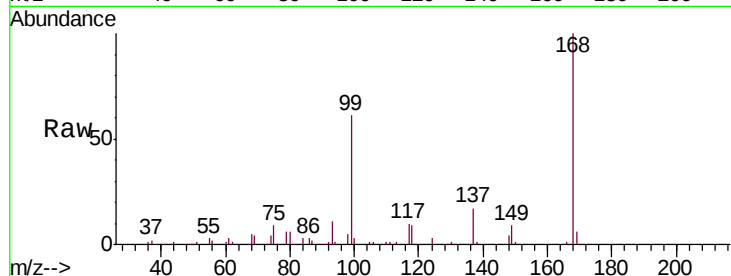
Tgt Ion:117 Resp: 30363

Ion Ratio Lower Upper

117 100

119 4.3 76.9 115.3#

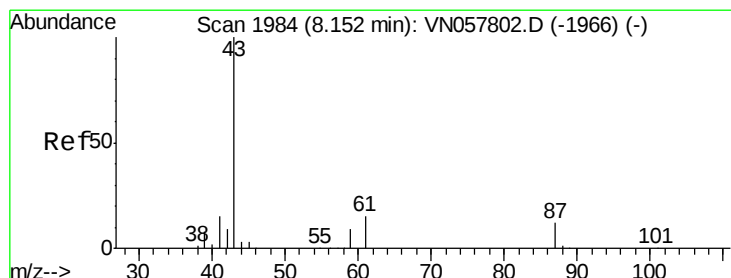
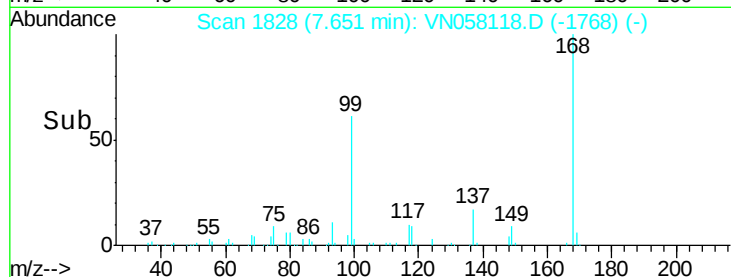
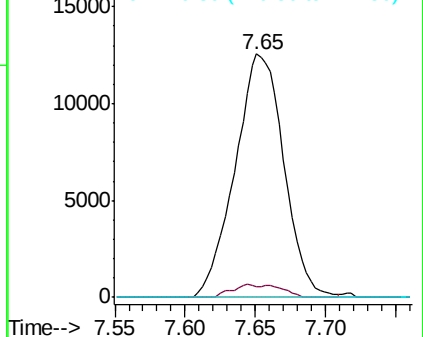
121 0.0 23.4 35.2#



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



#43

Isopropyl Acetate

Concen: 12.972 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058118.D

Acq: 16 Sep 2019 15:01

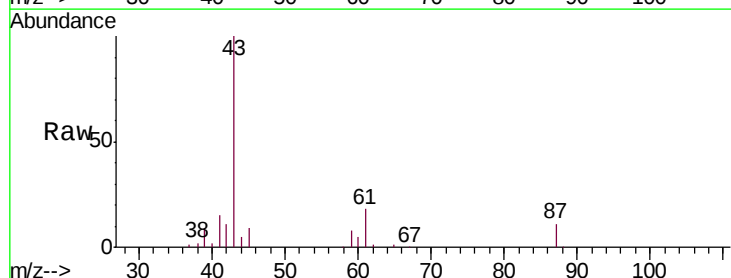
Tgt Ion: 43 Resp: 134370

Ion Ratio Lower Upper

43 100

61 16.3 20.1 30.1#

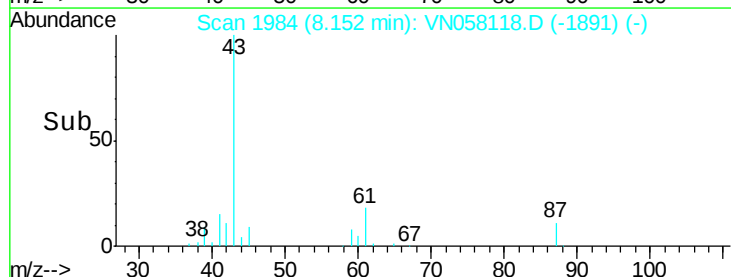
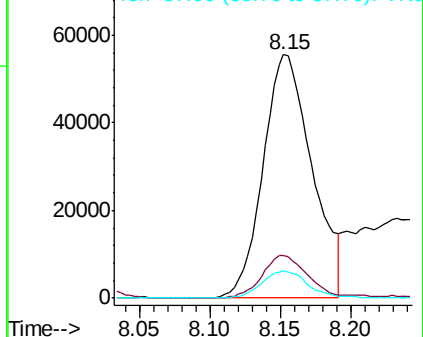
87 10.6 9.5 14.3

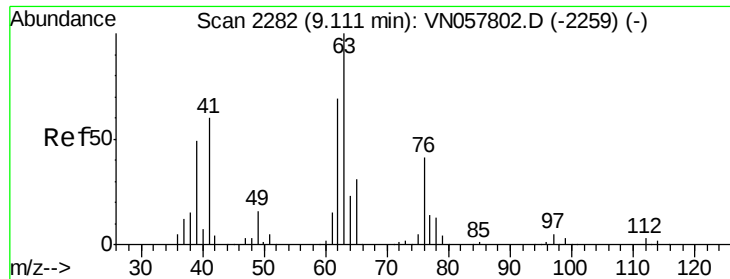


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#45

1,2-Dichloropropane

Concen: 0.402 ug/l

RT: 9.26 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN058118.D

Acq: 16 Sep 2019 15:01

Instrument :

MSVOA_N

ClientSampleId :

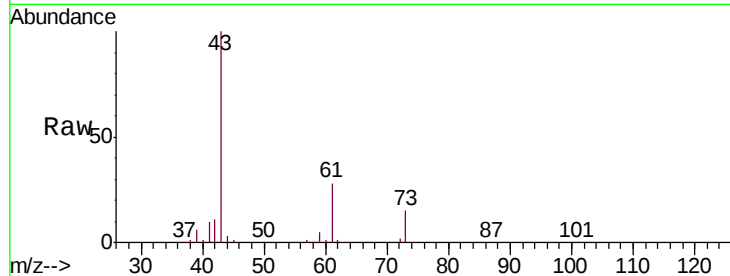
T4-3-(0)-HELLGATE

Tgt Ion: 63 Resp: 2101

Ion Ratio Lower Upper

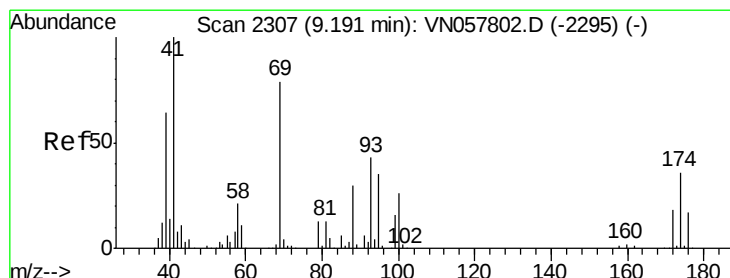
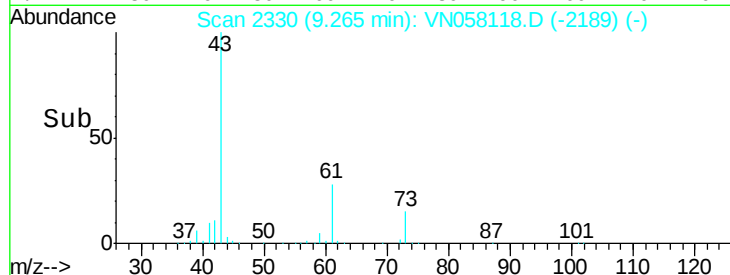
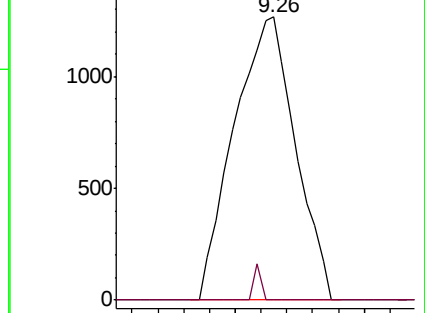
63 100

65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.304 ug/l

RT: 9.17 min Scan# 2302

Delta R.T. -0.02 min

Lab File: VN058118.D

Acq: 16 Sep 2019 15:01

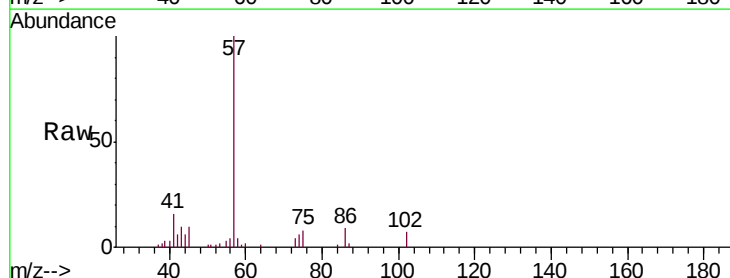
Tgt Ion: 41 Resp: 6851

Ion Ratio Lower Upper

41 100

69 0.0 62.7 94.1#

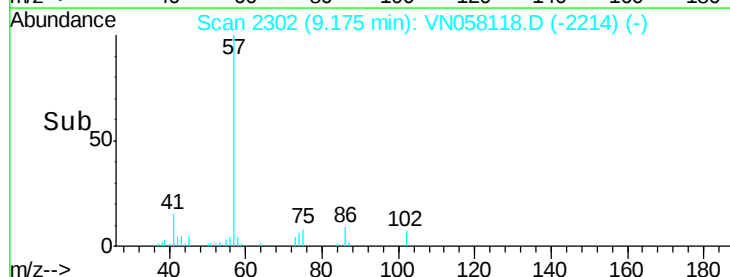
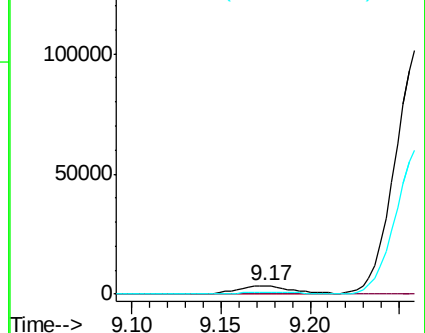
39 0.0 52.7 79.1#

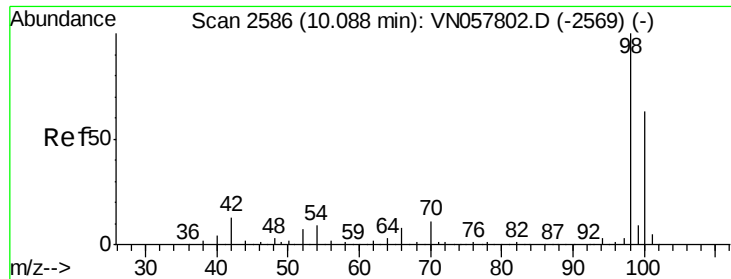


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 52.676 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058118.D

Acq: 16 Sep 2019 15:01

Instrument :

MSVOA_N

ClientSampleId :

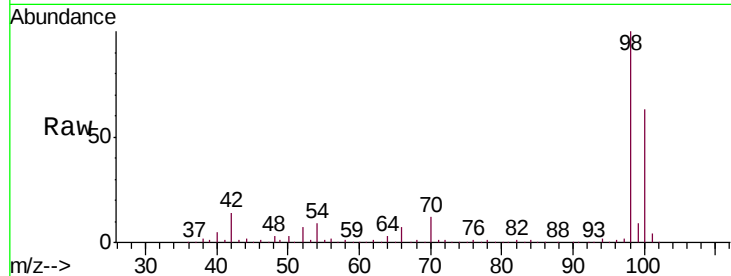
T4-3(0)-HELLGATE

Tgt Ion: 98 Resp: 970319

Ion Ratio Lower Upper

98 100

100 63.7 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

500000

400000

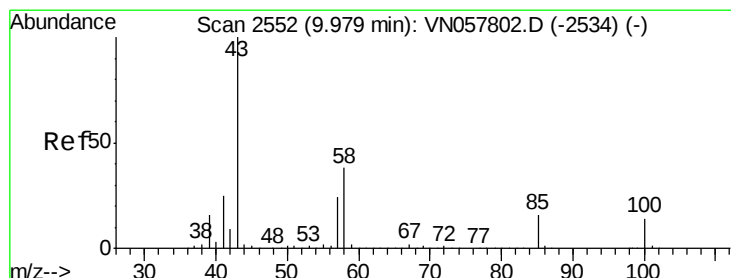
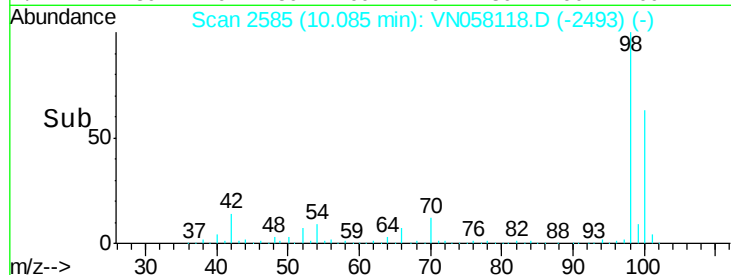
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.441 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058118.D

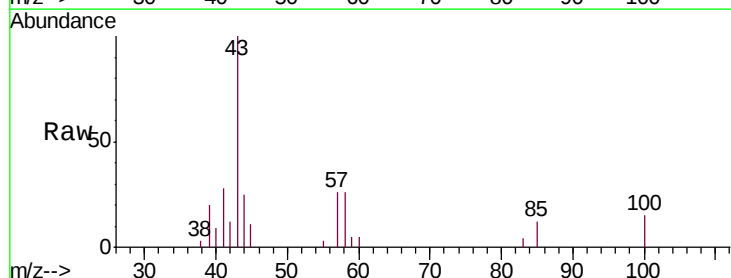
Acq: 16 Sep 2019 15:01

Tgt Ion: 43 Resp: 8831

Ion Ratio Lower Upper

43 100

58 29.5 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10000

8000

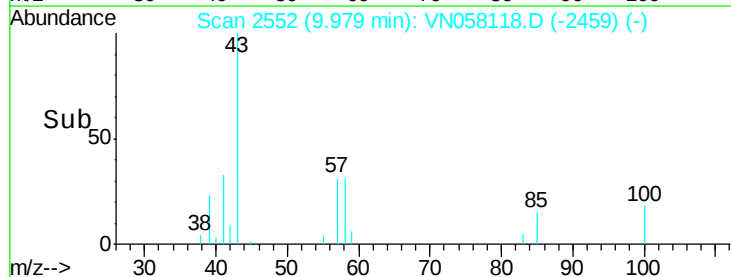
6000

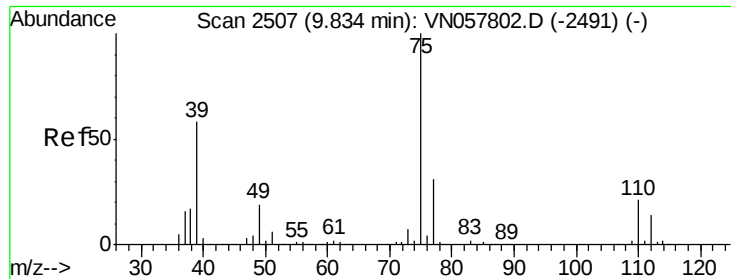
4000

2000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 6.796 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN058118.D

Acq: 16 Sep 2019 15:01

Instrument :

MSVOA_N

ClientSampleId :

T4-3-(0)-HELLGATE

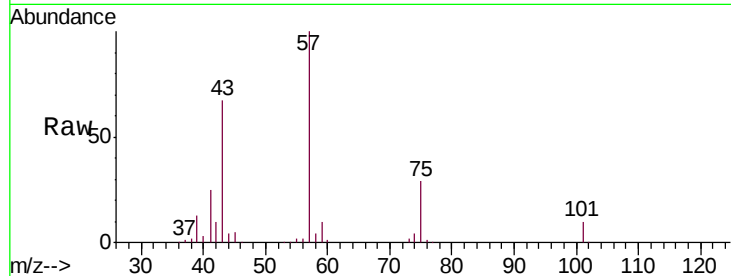
Tgt Ion: 75 Resp: 49797

Ion Ratio Lower Upper

75 100

77 0.6 24.8 37.2#

39 44.0 46.2 69.4#

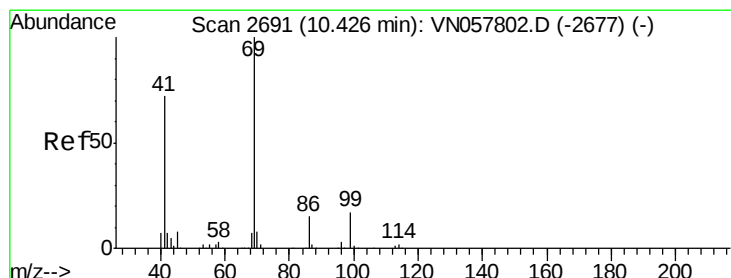
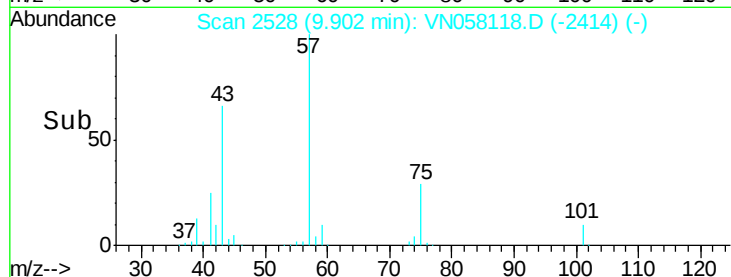


Abundance Ion 74.90 (74.60 to 75.60): VN058118.D (-2528) (-)

Ion 76.90 (76.60 to 77.60): VN058118.D (-2528) (-)

Ion 39.00 (38.70 to 39.70): VN058118.D (-2528) (-)

Time-->



#56

Ethyl methacrylate

Concen: 0.320 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN058118.D

Acq: 16 Sep 2019 15:01

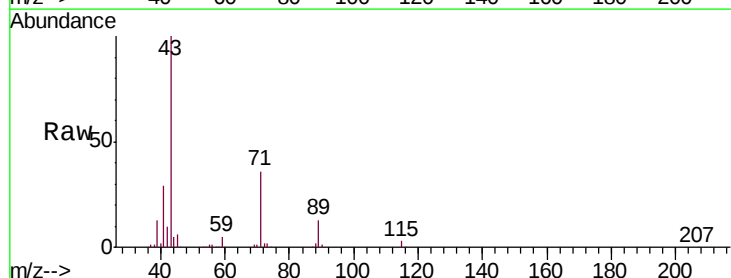
Tgt Ion: 69 Resp: 2310

Ion Ratio Lower Upper

69 100

41 5430.8 56.7 85.1#

39 2471.6 36.3 54.5#

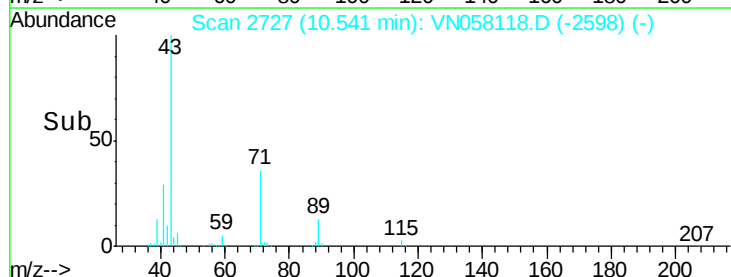


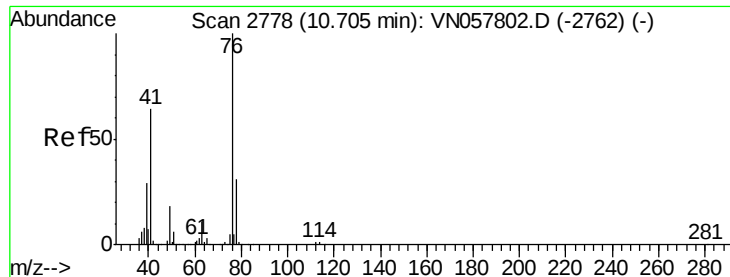
Abundance Ion 69.00 (68.70 to 69.70): VN058118.D (-2727) (-)

Ion 41.00 (40.70 to 41.70): VN058118.D (-2727) (-)

Ion 39.00 (38.70 to 39.70): VN058118.D (-2727) (-)

Time-->

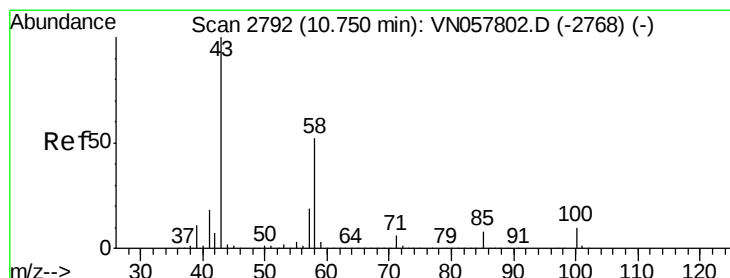
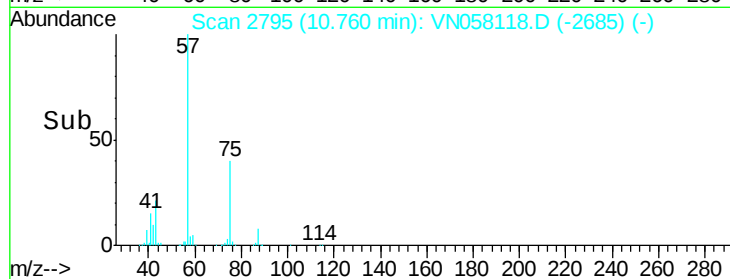
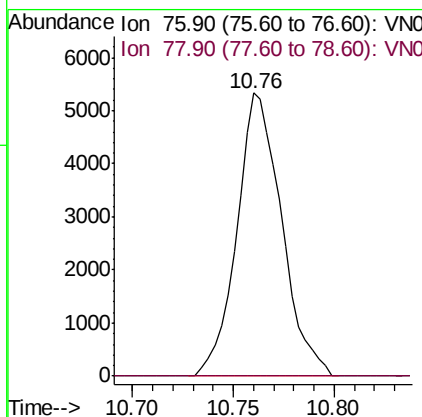
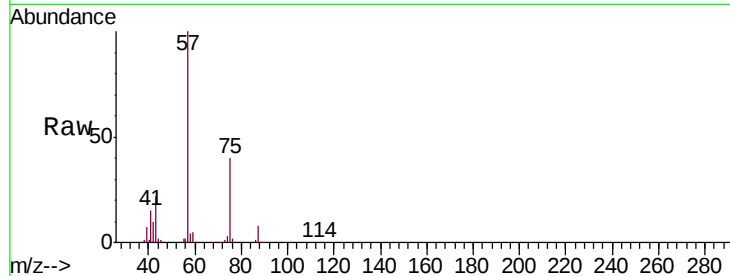




#57
 1,3-Dichloropropane
 Concen: 1.004 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.05 min
 Lab File: VN058118.D
 Acq: 16 Sep 2019 15:01

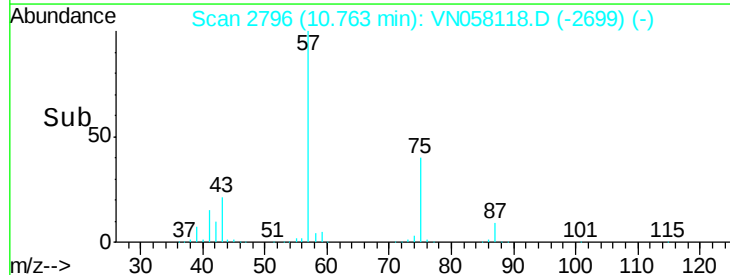
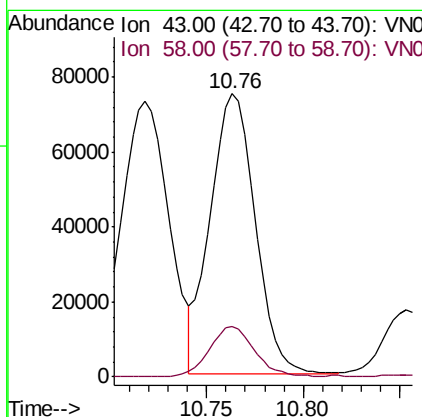
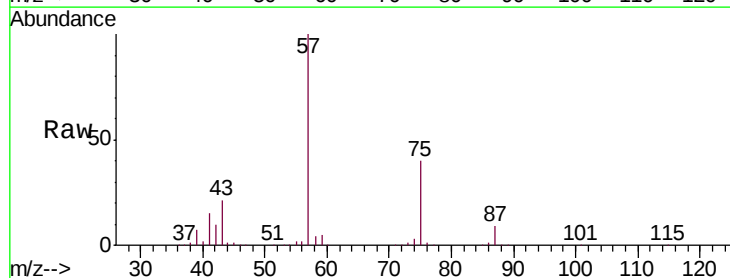
Instrument :
 MSVOA_N
 ClientSampleId :
 T4-3-(0)-HELLGATE

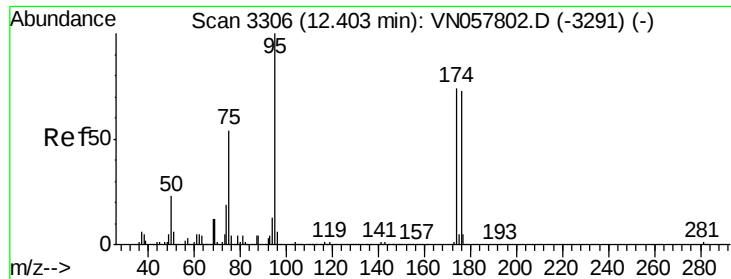
Tgt Ion: 76 Resp: 8289
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#



#59
 2-Hexanone
 Concen: 26.438 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN058118.D
 Acq: 16 Sep 2019 15:01

Tgt Ion: 43 Resp: 121465
 Ion Ratio Lower Upper
 43 100
 58 18.2 25.6 76.8#

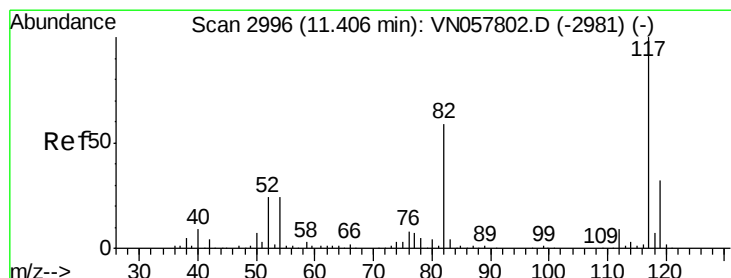
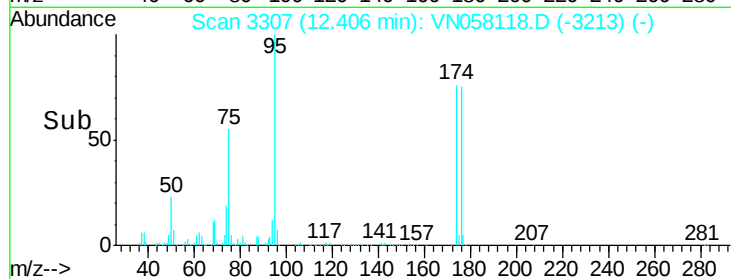
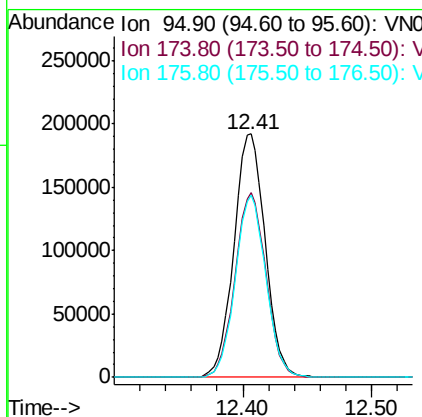
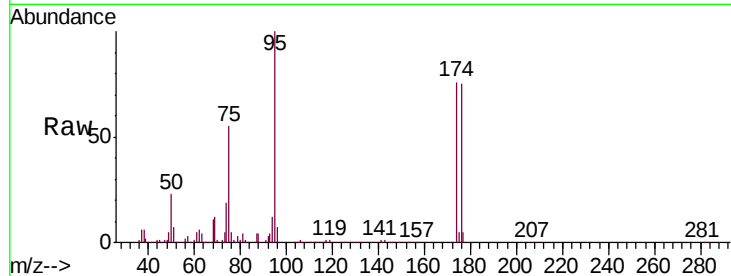




#62
4-Bromofluorobenzene
Concen: 46.078 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058118.D
Acq: 16 Sep 2019 15:01

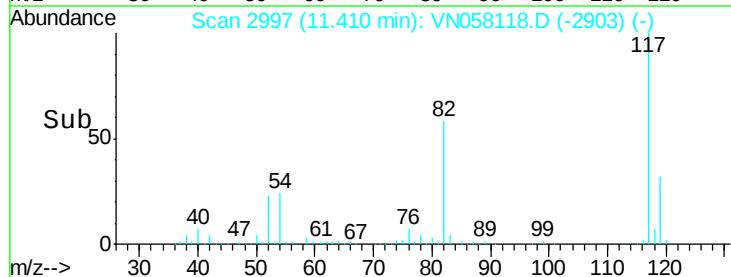
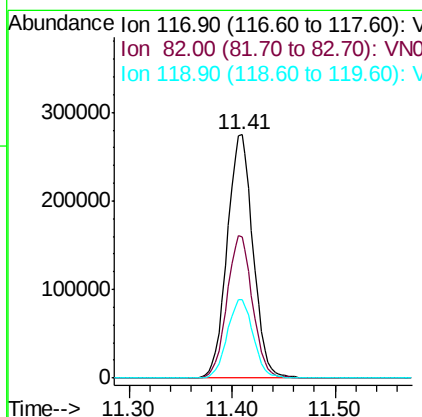
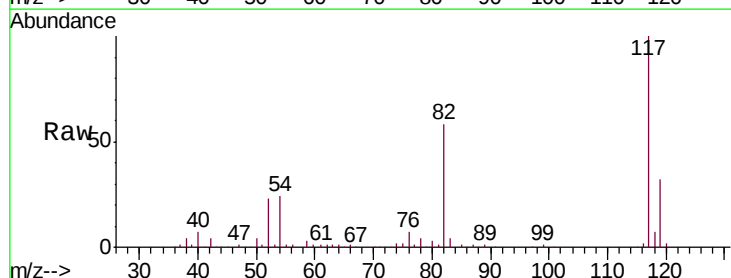
Instrument :
MSVOA_N
ClientSampleId :
T4-3-(0)-HELLGATE

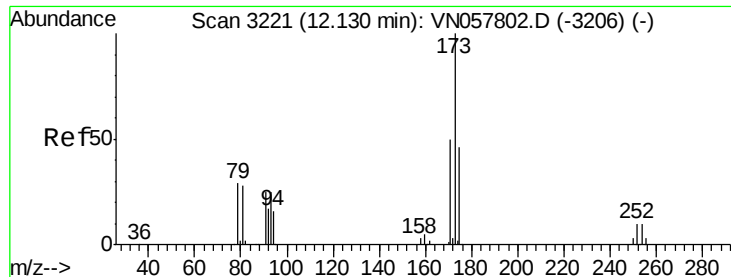
Tgt Ion: 95 Resp: 323457
Ion Ratio Lower Upper
95 100
174 75.1 0.0 150.2
176 73.1 0.0 146.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058118.D
Acq: 16 Sep 2019 15:01

Tgt Ion: 117 Resp: 480528
Ion Ratio Lower Upper
117 100
82 58.2 47.2 70.8
119 32.2 25.3 37.9





#71

Bromoform

Concen: 0.376 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN058118.D

Acq: 16 Sep 2019 15:01

Instrument :

MSVOA_N

ClientSampleId :

T4-3-(0)-HELLGATE

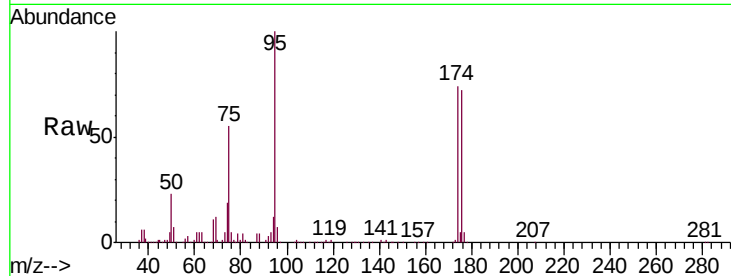
Tgt Ion:173 Resp: 1023

Ion Ratio Lower Upper

173 100

175 1487.6 23.5 70.6#

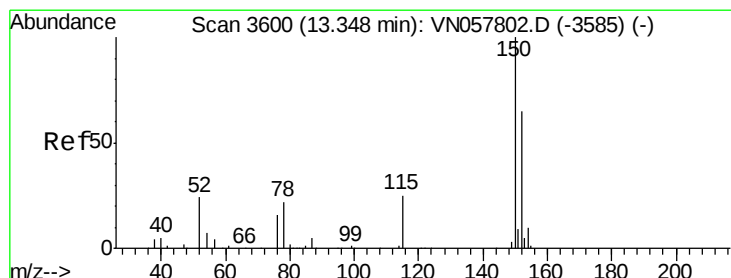
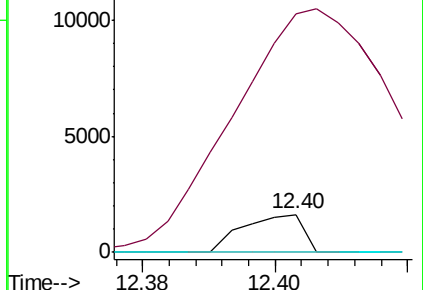
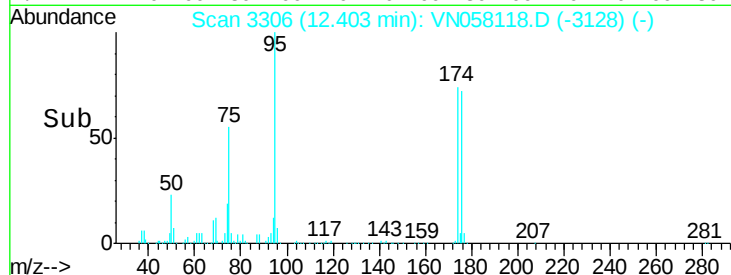
254 0.0 0.1 0.1#



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# 3600

Delta R.T. 0.00 min

Lab File: VN058118.D

Acq: 16 Sep 2019 15:01

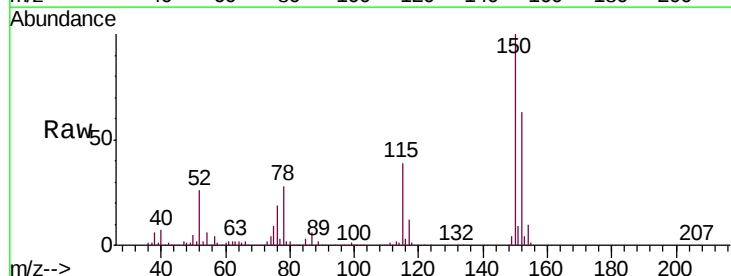
Tgt Ion:152 Resp: 254965

Ion Ratio Lower Upper

152 100

115 59.2 30.3 91.0

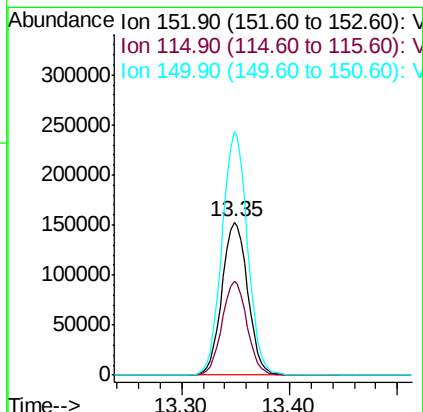
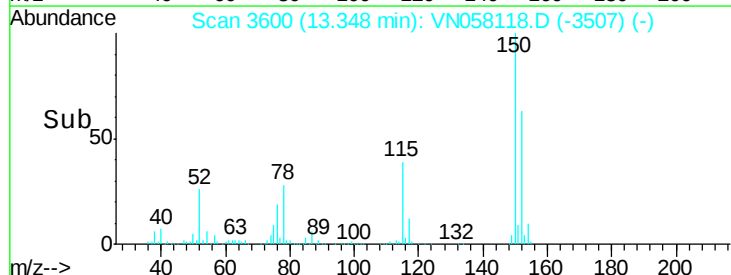
150 156.7 0.0 352.4

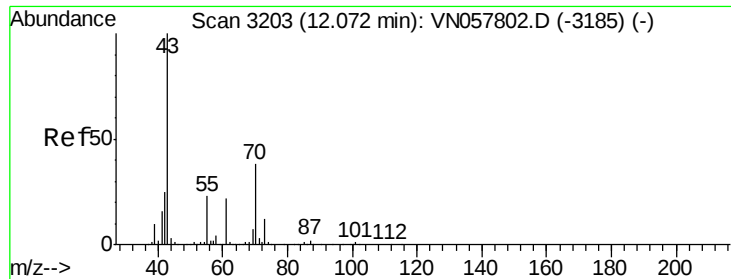


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.629 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN058118.D

Acq: 16 Sep 2019 15:01

Instrument :

MSVOA_N

ClientSampleId :

T4-3(0)-HELLGATE

Tgt Ion: 43 Resp: 5412

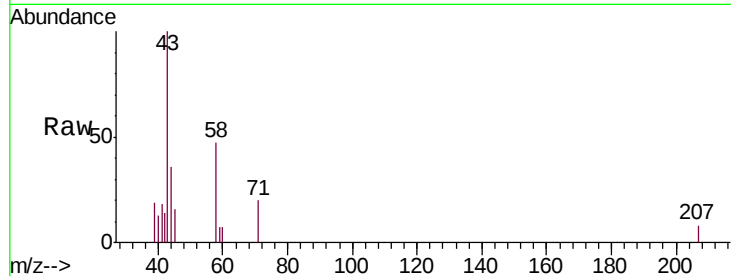
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 2.7 18.6 27.8#

61 0.0 17.4 26.2#

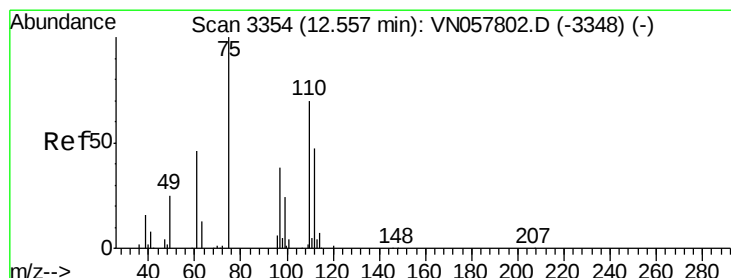
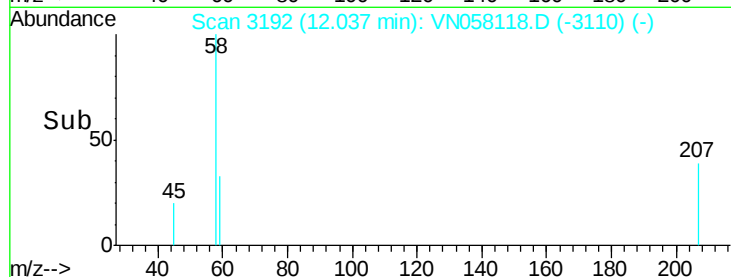
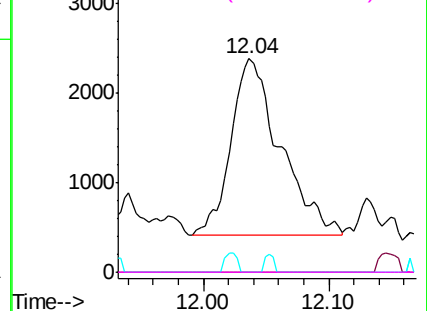


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 30.915 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058118.D

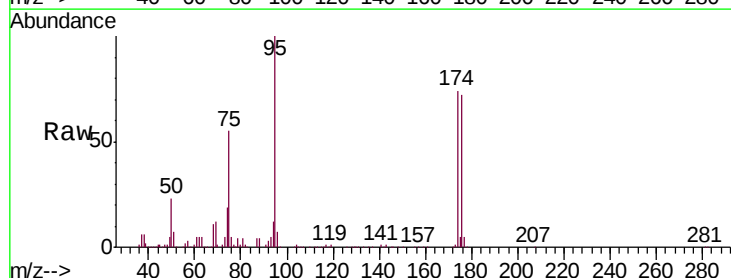
Acq: 16 Sep 2019 15:01

Tgt Ion: 75 Resp: 178309

Ion Ratio Lower Upper

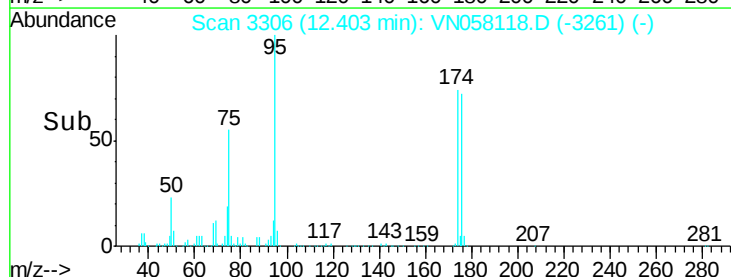
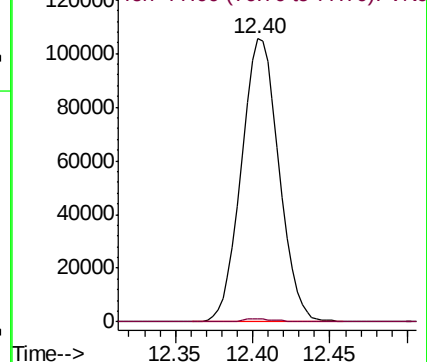
75 100

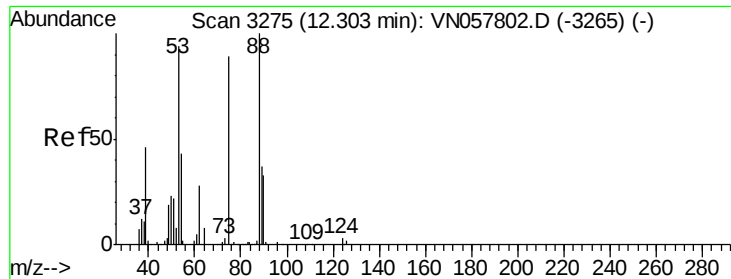
77 1.1 0.0 0.0#



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: 108.790 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058118.D

Acq: 16 Sep 2019 15:01

Instrument :

MSVOA_N

ClientSampleId :

T4-3(0)-HELLGATE

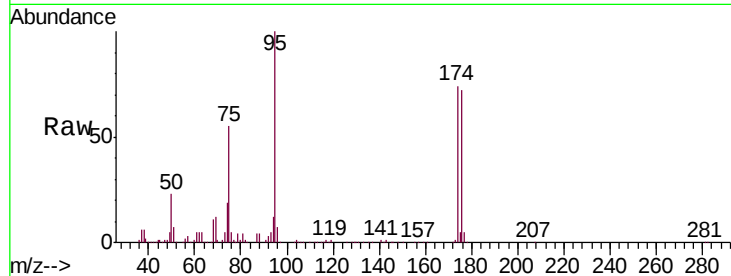
Tgt Ion: 75 Resp: 178309

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

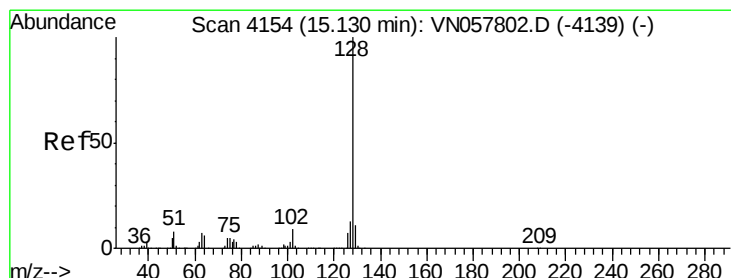
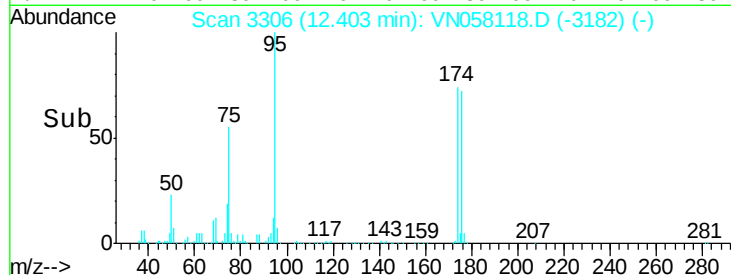
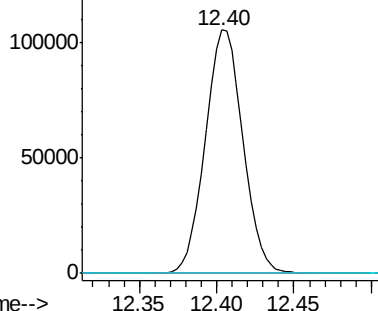
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN058118.D (-3306) (-)

Ion 53.00 (52.70 to 53.70): VN058118.D (-3306) (-)

Ion 88.90 (88.60 to 89.60): VN058118.D (-3306) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058118.D

Acq: 16 Sep 2019 15:01

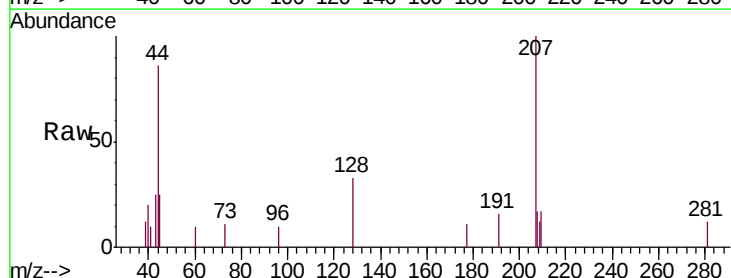
Tgt Ion: 128 Resp: 748

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VN058118.D (-4154) (-)

Ion 127.00 (126.70 to 127.70): VN058118.D (-4154) (-)

Ion 129.00 (128.70 to 129.70): VN058118.D (-4154) (-)

