

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091619\
 Data File : VN058121.D
 Acq On : 16 Sep 2019 16:07
 Operator : JC/SP
 Sample : K4719-32
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T4-4(1.5)-HELLGATE

Quant Time: Sep 17 03:52:32 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	340866	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	581790	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	540507	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	286773	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	356678	51.66	ug/l	0.00
Spiked Amount			Recovery	=	103.32%	
35) Dibromofluoromethane	7.58	113	243715	45.39	ug/l	0.00
Spiked Amount			Recovery	=	90.78%	
50) Toluene-d8	10.08	98	952299	45.68	ug/l	0.00
Spiked Amount			Recovery	=	91.36%	
62) 4-Bromofluorobenzene	12.41	95	321718	40.49	ug/l	0.00
Spiked Amount			Recovery	=	80.98%	

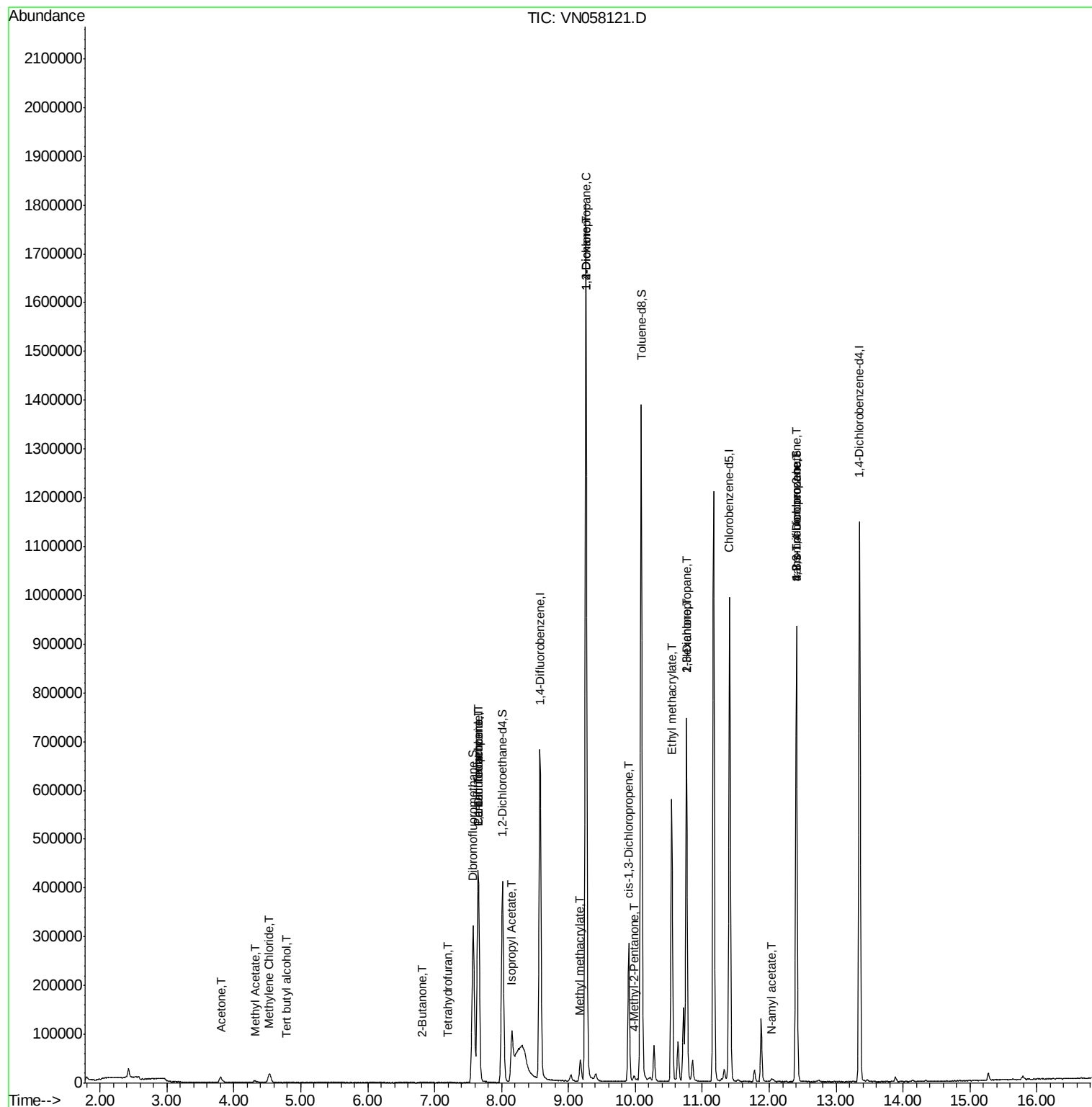
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.52	94	60	Below Cal	#	2
11) Tert butyl alcohol	4.79	59	174	0.208	ug/l #	72
16) Acetone	3.80	43	18956	8.376	ug/l	93
18) Methyl Acetate	4.31	43	1981	0.328	ug/l #	14
20) Methylene Chloride	4.53	84	13071	1.848	ug/l	90
25) 2-Butanone	6.82	43	1160	0.354	ug/l	100
29) Tetrahydrofuran	7.19	42	686	0.340	ug/l #	70
31) Cyclohexane	7.65	56	9252	Below Cal	#	16
36) 1,1-Dichloropropene	7.65	75	29860	4.426	ug/l #	51
38) Carbon Tetrachloride	7.65	117	35095	5.697	ug/l #	16
43) Isopropyl Acetate	8.16	43	145023	12.371	ug/l #	84
45) 1,2-Dichloropropane	9.26	63	2199	0.372	ug/l #	44
48) Methyl methacrylate	9.17	41	6405	1.077	ug/l #	13
49) 1,4-Dioxane	9.26	88	94	0.935	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	8462	1.220	ug/l	94
54) cis-1,3-Dichloropropene	9.90	75	46672	5.628	ug/l #	64
56) Ethyl methacrylate	10.55	69	2082	0.255	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	7358	0.788	ug/l #	43
59) 2-Hexanone	10.76	43	114440	22.008	ug/l #	53
74) N-amyl acetate	12.04	43	5725	0.591	ug/l #	48
76) 1,2,3-Trichloropropane	12.41	75	175166	27.001	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	175166	95.018	ug/l #	6
95) Naphthalene	15.13	128	581	Below Cal	#	69

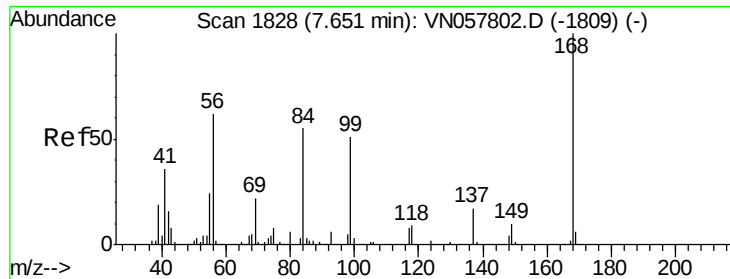
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN091619\
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T4-4-(1.5)-HELLGATE

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Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058121.D

Acq: 16 Sep 2019 16:07

Instrument :

MSVOA_N

ClientSampleId :

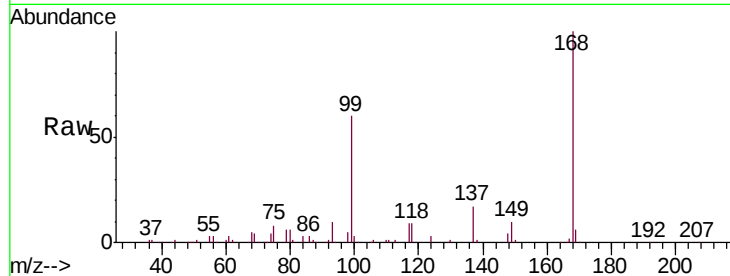
T4-4(1.5)-HELLGATE

Tgt Ion:168 Resp: 340866

Ion Ratio Lower Upper

168 100

99 60.1 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VN058121.D (-1735) (-)

Ion 98.90 (98.60 to 99.60): VN058121.D (-1735) (-)

7.65

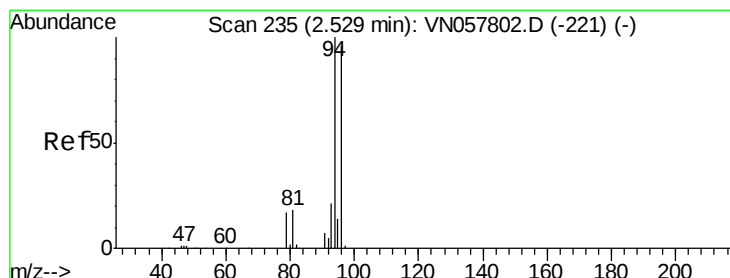
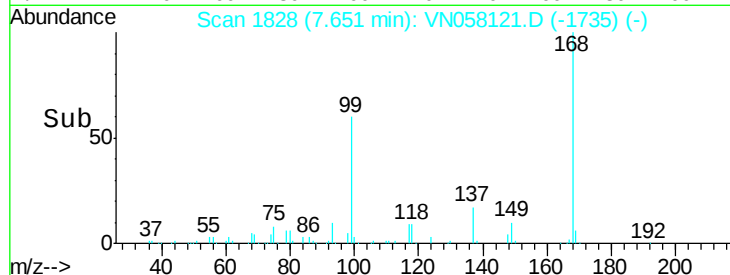
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.52 min Scan# 233

Delta R.T. -0.01 min

Lab File: VN058121.D

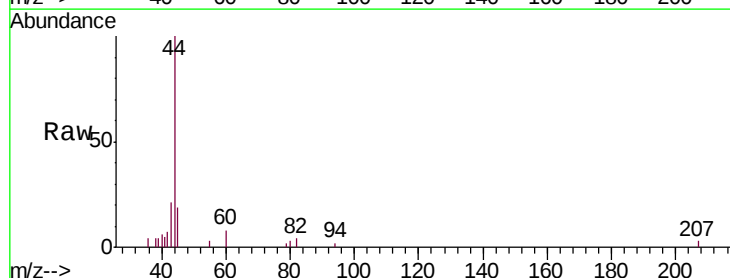
Acq: 16 Sep 2019 16:07

Tgt Ion: 94 Resp: 60

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN058121.D (-141) (-)

Ion 95.90 (95.60 to 96.60): VN058121.D (-141) (-)

2.52

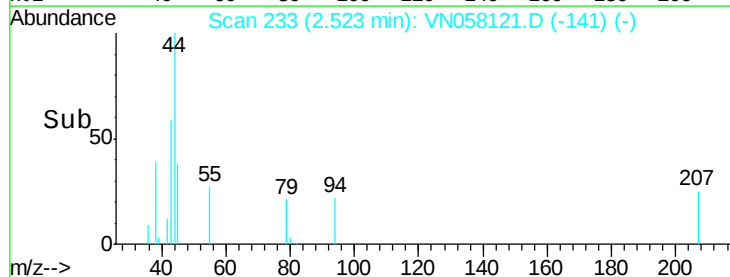
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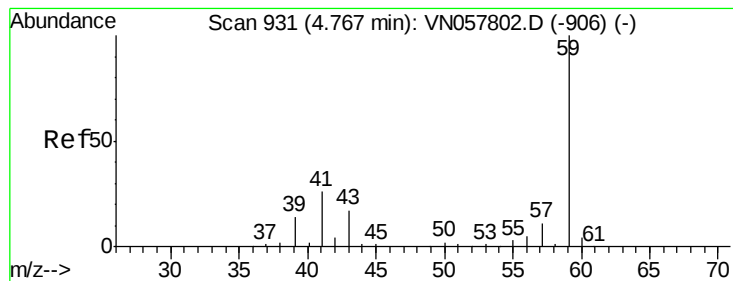
100

50

0

Time-->



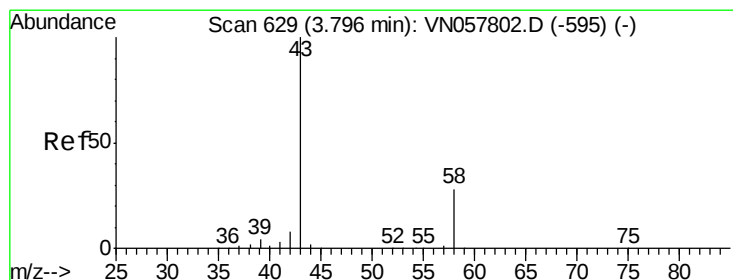
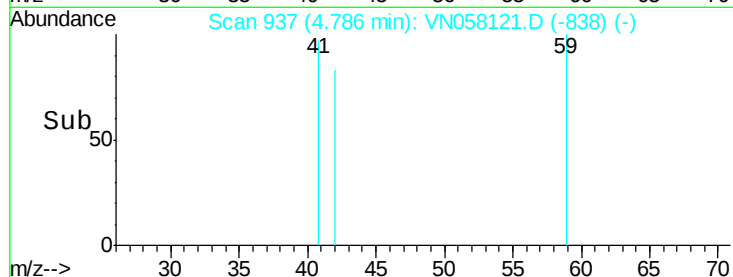
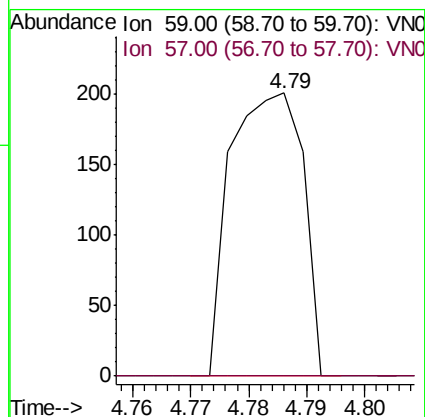
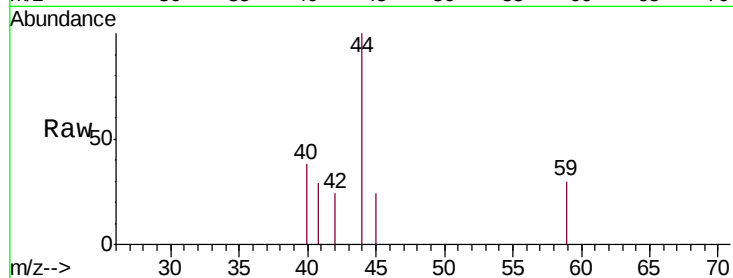


#11

Tert butyl alcohol
 Concen: 0.208 ug/l
 RT: 4.79 min Scan# 937
 Delta R.T. 0.02 min
 Lab File: VN058121.D
 Acq: 16 Sep 2019 16:07

Instrument :
 MSVOA_N
 ClientSampleId :
 T4-4(1.5)-HELLGATE

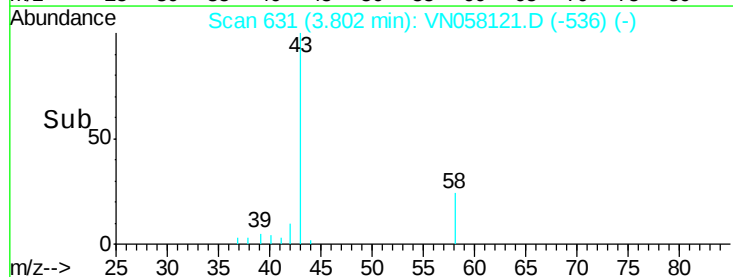
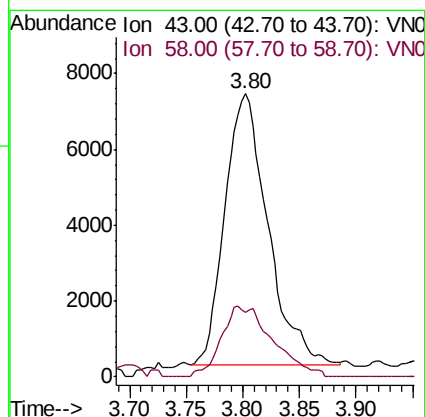
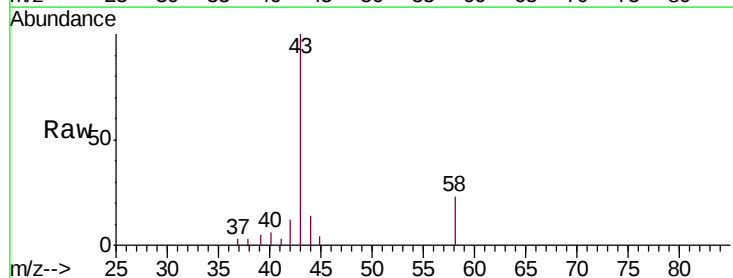
Tgt Ion: 59 Resp: 174
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

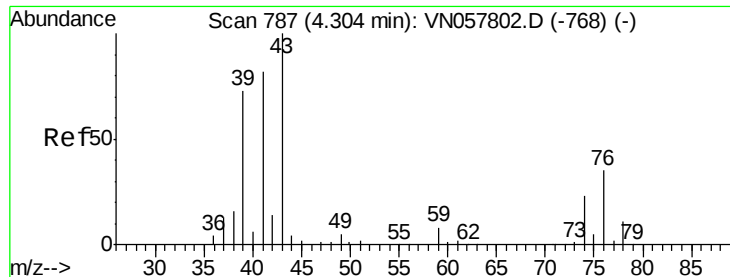


#16

Acetone
 Concen: 8.376 ug/l
 RT: 3.80 min Scan# 631
 Delta R.T. 0.01 min
 Lab File: VN058121.D
 Acq: 16 Sep 2019 16:07

Tgt Ion: 43 Resp: 18956
 Ion Ratio Lower Upper
 43 100
 58 24.0 22.2 33.2

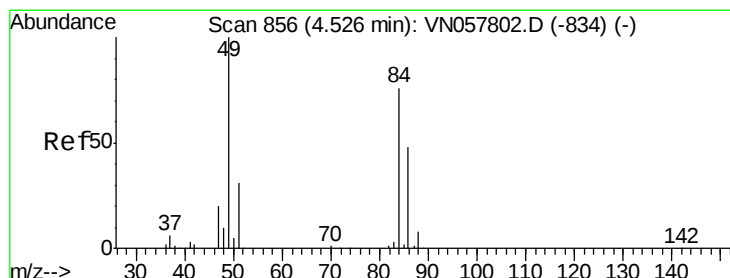
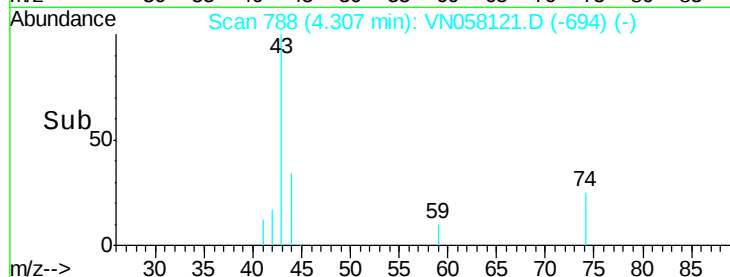
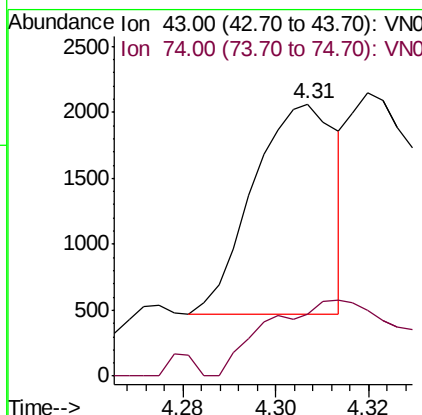
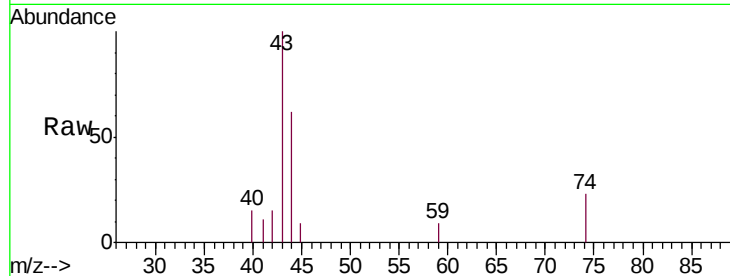




#18
Methyl Acetate
Concen: 0.328 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.00 min
Lab File: VN058121.D
Acq: 16 Sep 2019 16:07

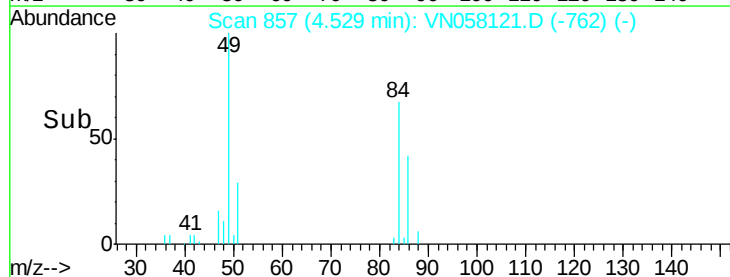
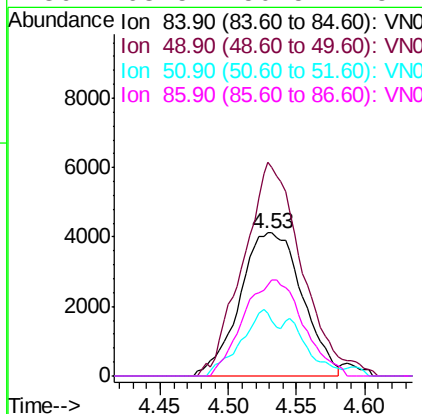
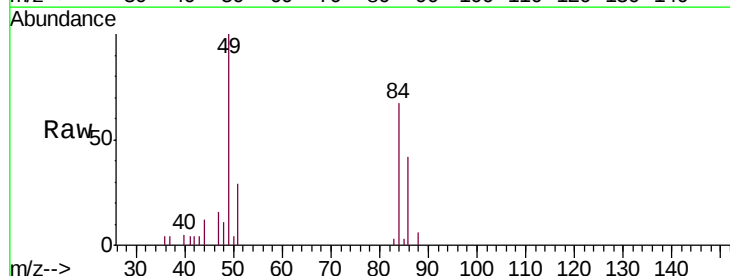
Instrument :
MSVOA_N
ClientSampleId :
T4-4(1.5)-HELLGATE

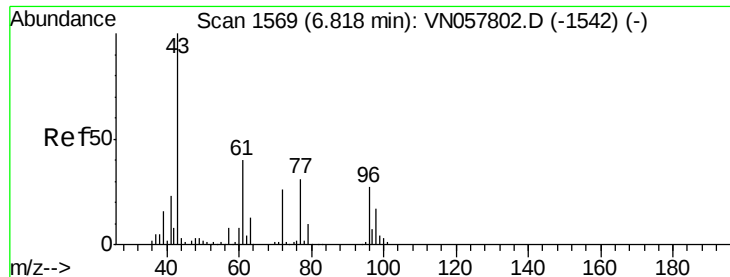
Tgt Ion: 43 Resp: 1981
Ion Ratio Lower Upper
43 100
74 63.9 17.9 26.9#



#20
Methylene Chloride
Concen: 1.848 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058121.D
Acq: 16 Sep 2019 16:07

Tgt Ion: 84 Resp: 13071
Ion Ratio Lower Upper
84 100
49 149.5 104.8 157.2
51 44.0 33.0 49.4
86 63.5 50.5 75.7





#25

2-Butanone

Concen: 0.354 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VN058121.D

Acq: 16 Sep 2019 16:07

Instrument :

MSVOA_N

ClientSampleId :

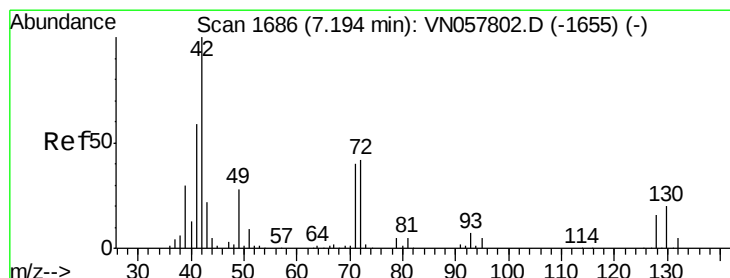
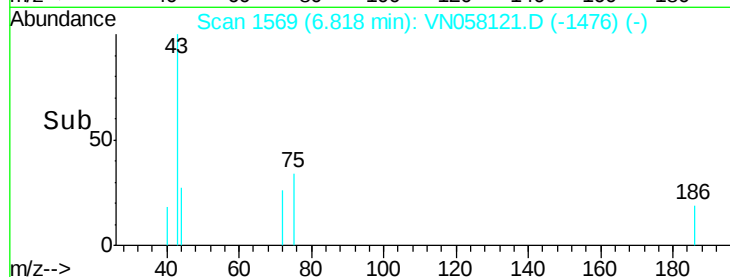
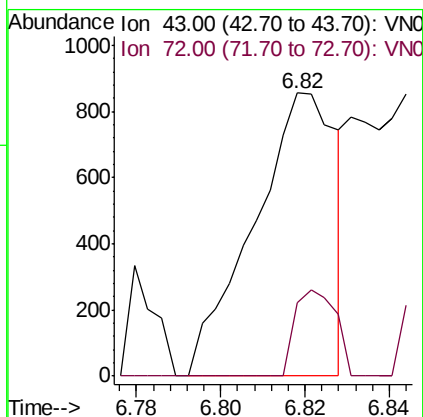
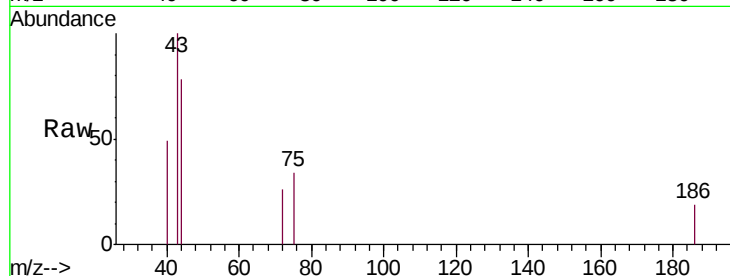
T4-4(1.5)-HELLGATE

Tgt Ion: 43 Resp: 1160

Ion Ratio Lower Upper

43 100

72 25.8 20.6 30.8



#29

Tetrahydrofuran

Concen: 0.340 ug/l

RT: 7.19 min Scan# 1685

Delta R.T. -0.00 min

Lab File: VN058121.D

Acq: 16 Sep 2019 16:07

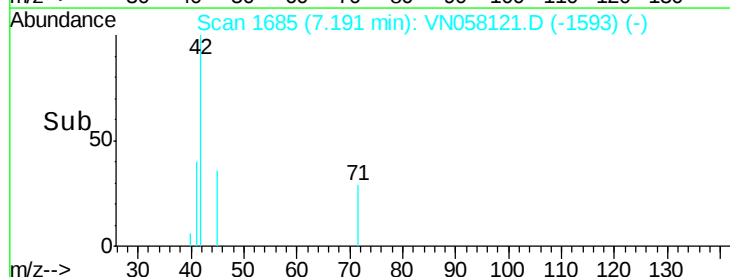
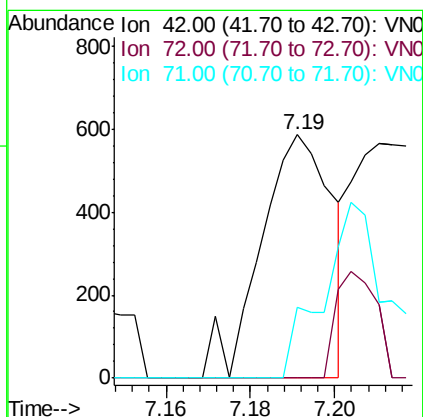
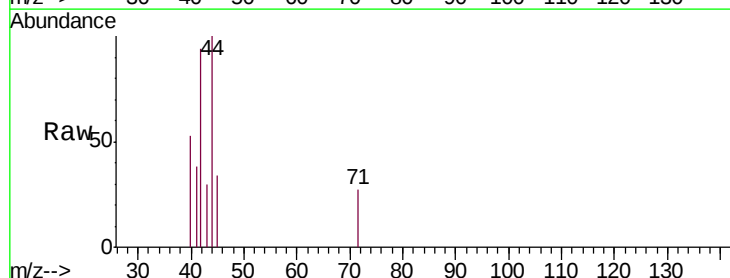
Tgt Ion: 42 Resp: 686

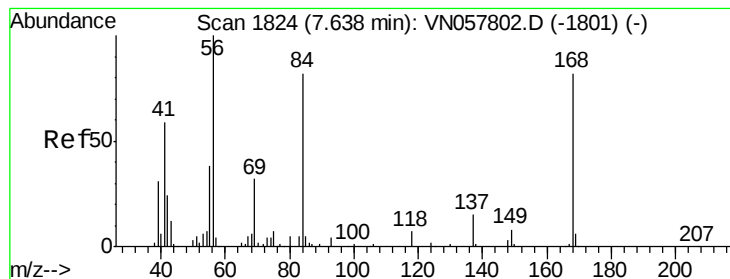
Ion Ratio Lower Upper

42 100

72 24.6 33.7 50.5#

71 60.3 31.9 47.9#





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058121.D

Acq: 16 Sep 2019 16:07

Instrument :

MSVOA_N

ClientSampleId :

T4-4-(1.5)-HELLGATE

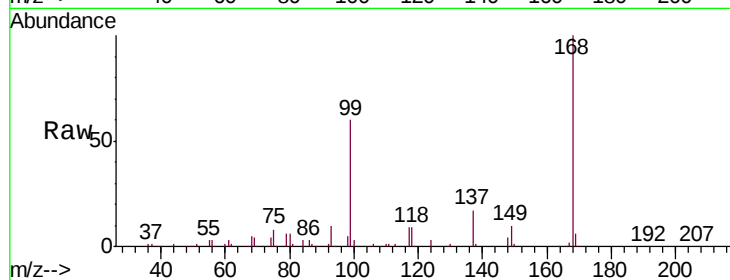
Tgt Ion: 56 Resp: 9252

Ion Ratio Lower Upper

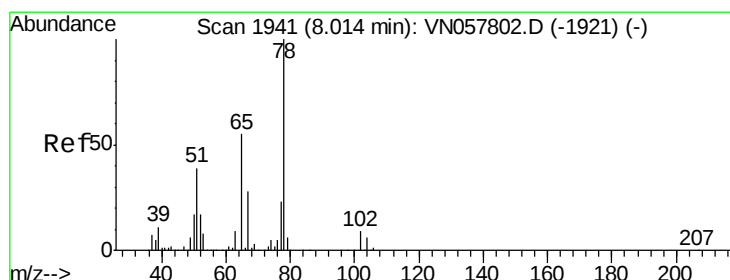
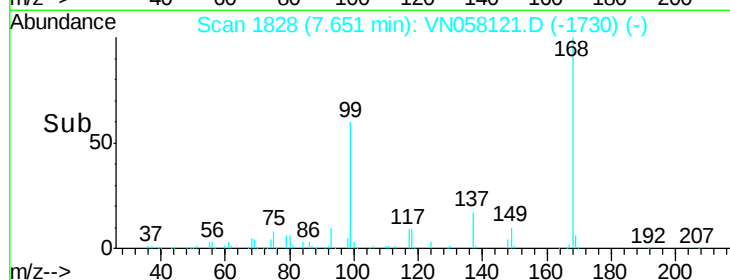
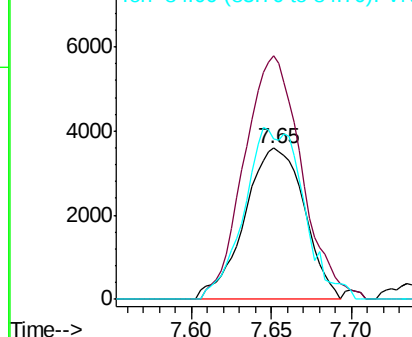
56 100

69 161.0 25.9 38.9#

84 106.0 65.6 98.4#



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



#33

1,2-Dichloroethane-d4

Concen: 51.663 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058121.D

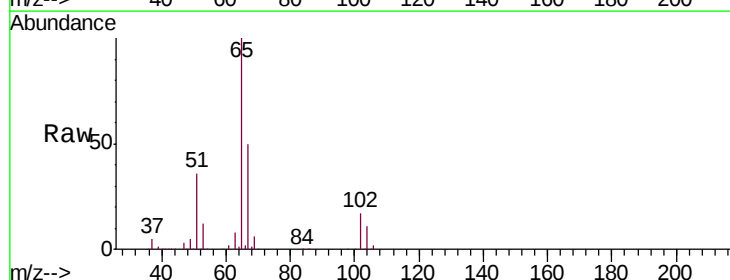
Acq: 16 Sep 2019 16:07

Tgt Ion: 65 Resp: 356678

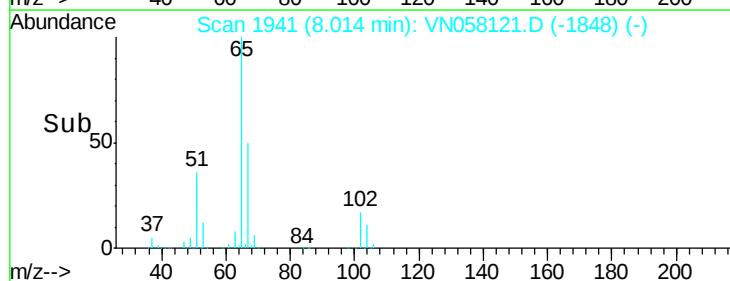
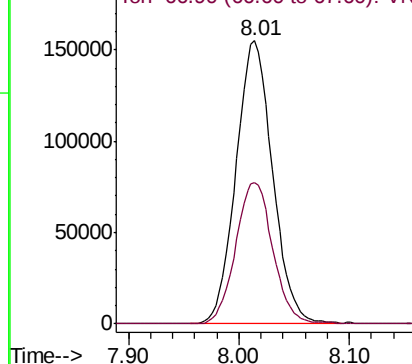
Ion Ratio Lower Upper

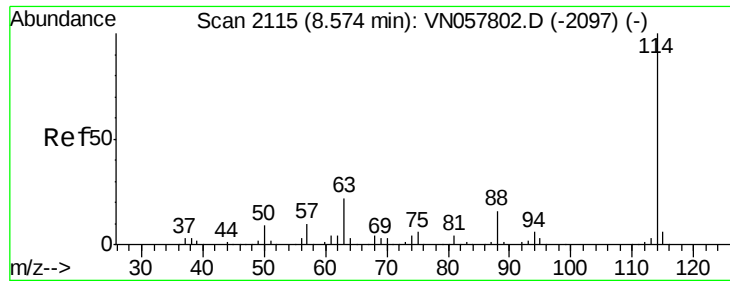
65 100

67 50.7 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC

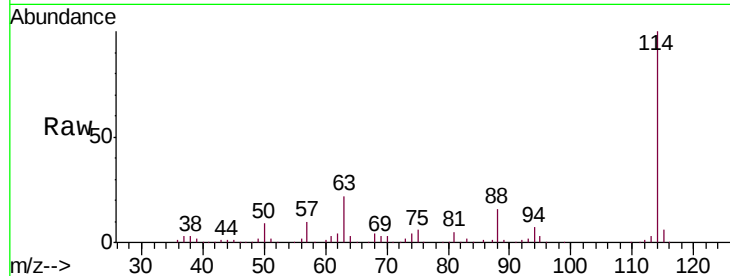




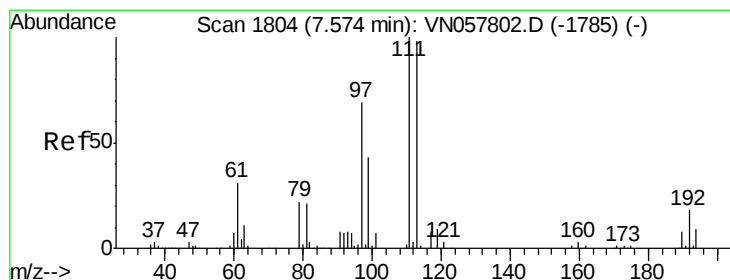
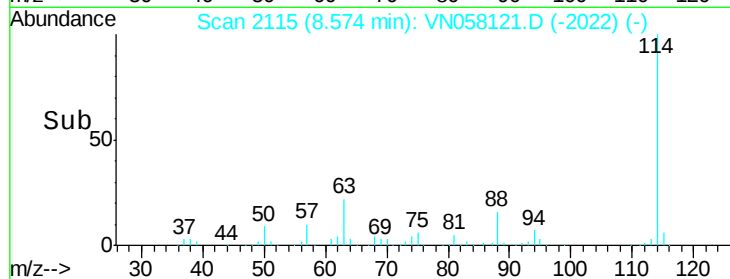
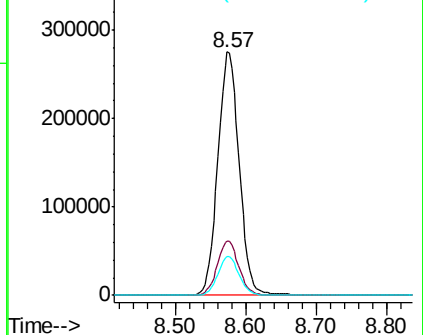
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058121.D
 Acq: 16 Sep 2019 16:07

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 T4-4-(1.5)-HELLGATE

Tgt Ion:114 Resp: 581790
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 44.0
 88 16.2 0.0 31.4

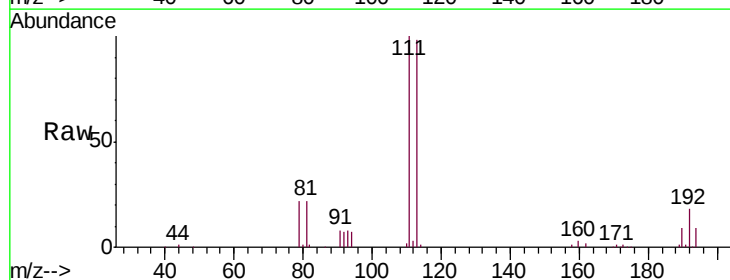


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

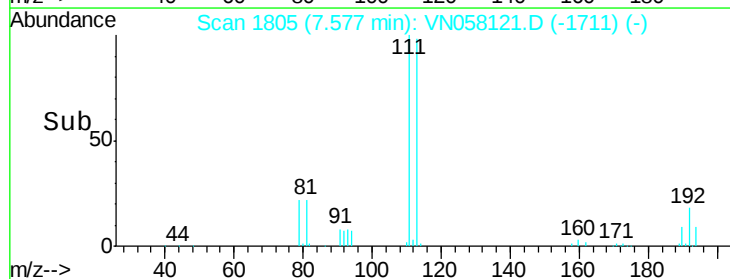
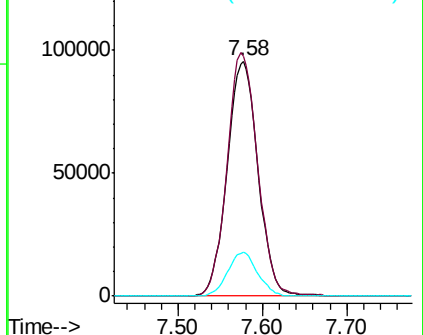


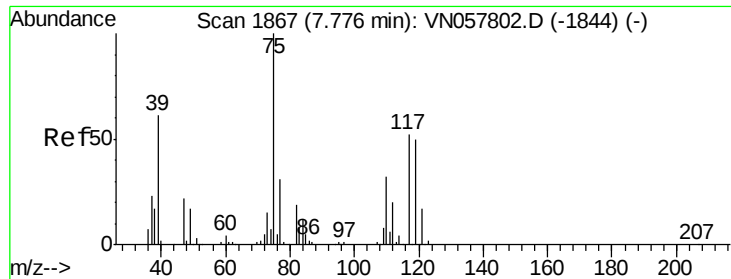
#35
 Dibromofluoromethane
 Concen: 45.387 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058121.D
 Acq: 16 Sep 2019 16:07

Tgt Ion:113 Resp: 243715
 Ion Ratio Lower Upper
 113 100
 111 102.4 81.3 121.9
 192 18.1 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

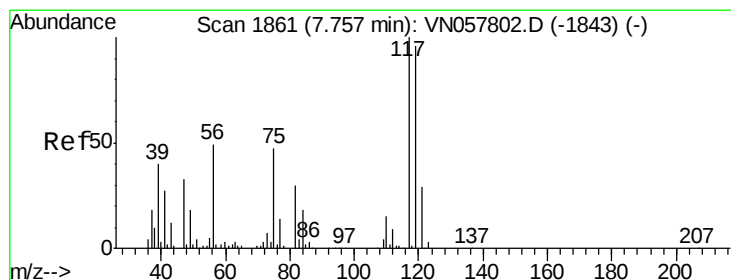
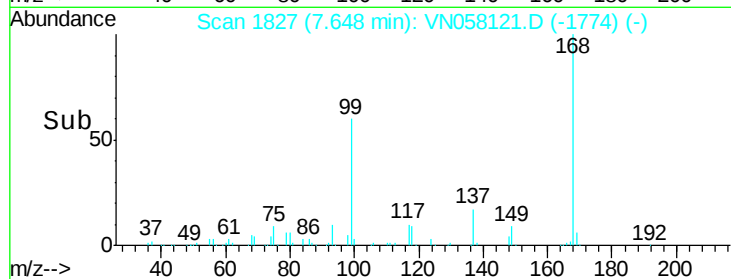
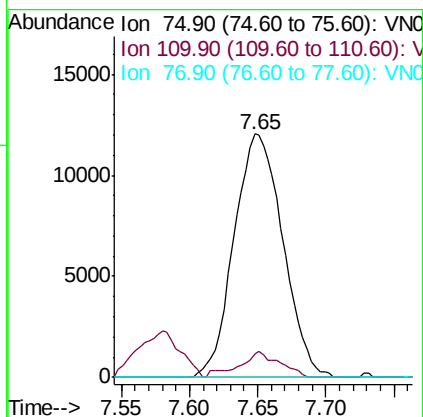
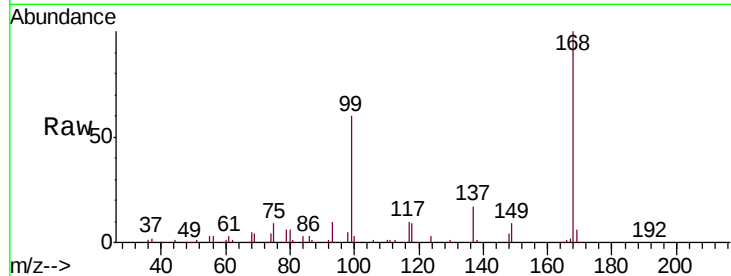




#36
 1,1-Dichloropropene
 Concen: 4.426 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058121.D
 Acq: 16 Sep 2019 16:07

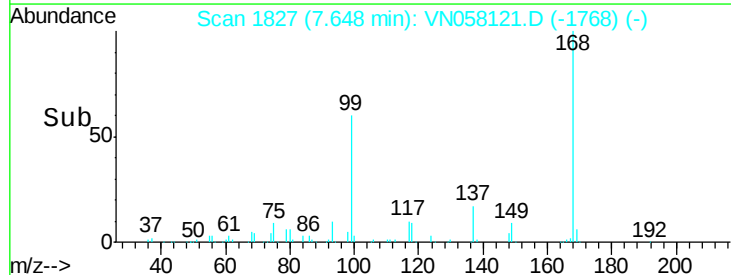
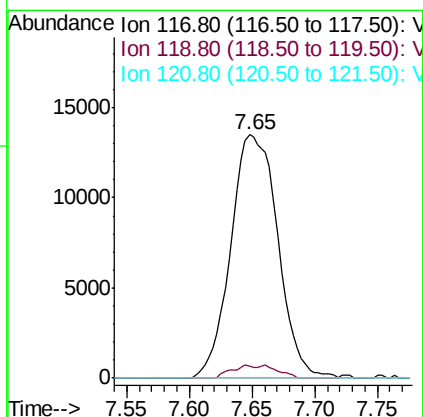
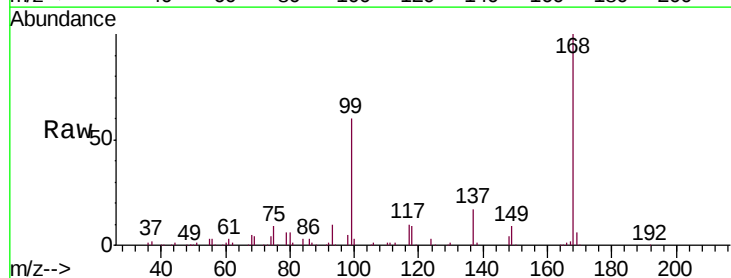
Instrument :
 MSVOA_N
 ClientSampleId :
 T4-4(1.5)-HELLGATE

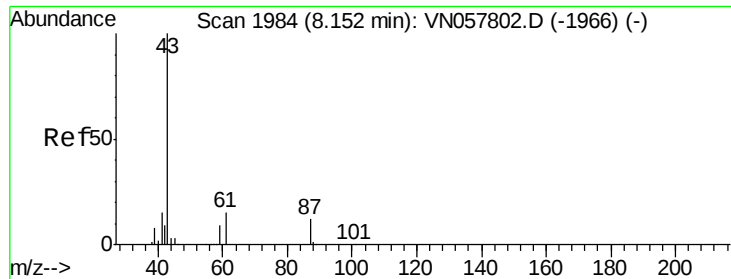
Tgt Ion: 75 Resp: 29860
 Ion Ratio Lower Upper
 75 100
 110 8.7 16.3 48.9#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 5.697 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN058121.D
 Acq: 16 Sep 2019 16:07

Tgt Ion: 117 Resp: 35095
 Ion Ratio Lower Upper
 117 100
 119 5.0 76.9 115.3#
 121 0.0 23.4 35.2#





#43

Isopropyl Acetate

Concen: 12.371 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN058121.D

Acq: 16 Sep 2019 16:07

Instrument :

MSVOA_N

ClientSampleId :

T4-4-(1.5)-HELLGATE

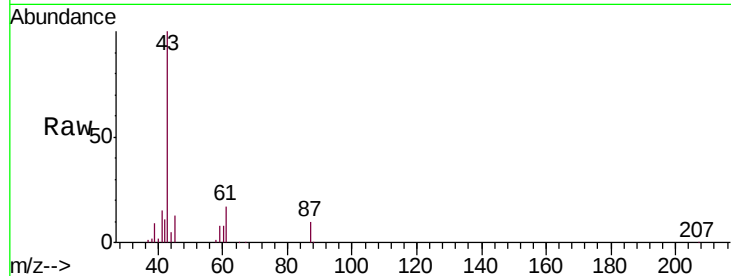
Tgt Ion: 43 Resp: 145023

Ion Ratio Lower Upper

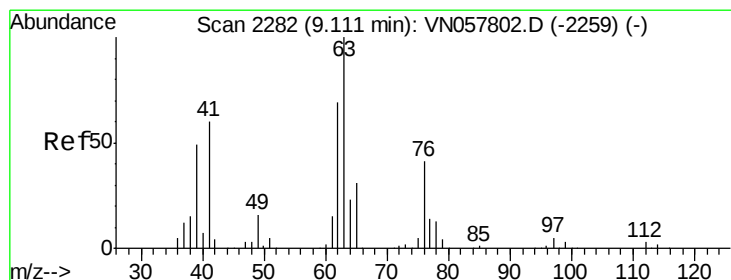
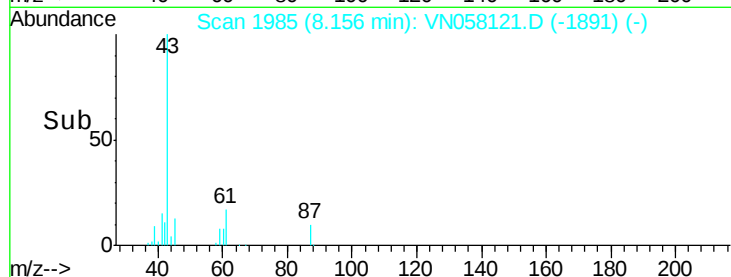
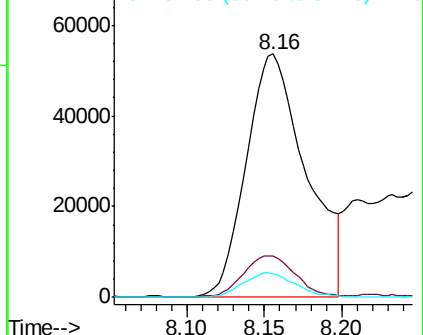
43 100

61 15.0 20.1 30.1#

87 8.8 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: 0.372 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.14 min

Lab File: VN058121.D

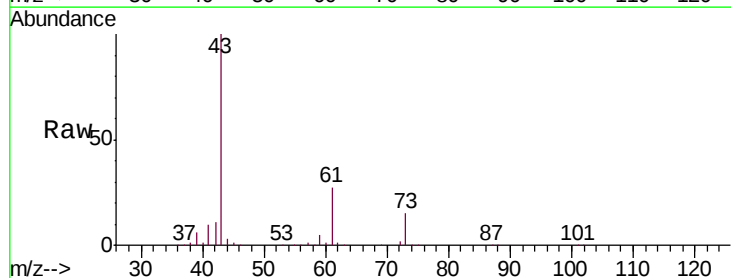
Acq: 16 Sep 2019 16:07

Tgt Ion: 63 Resp: 2199

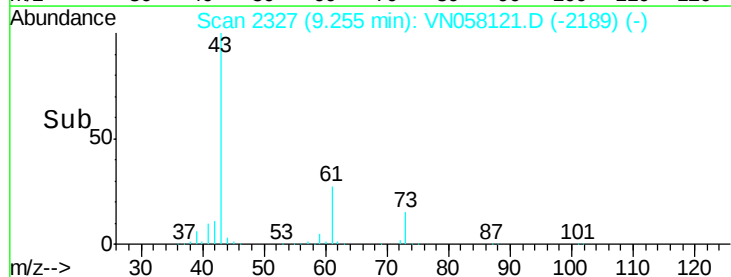
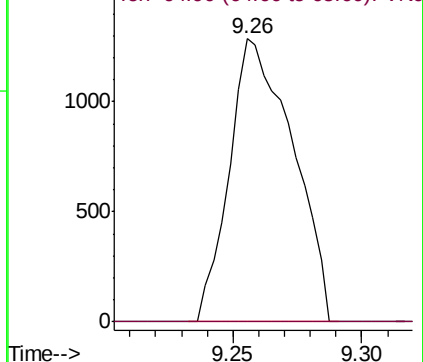
Ion Ratio Lower Upper

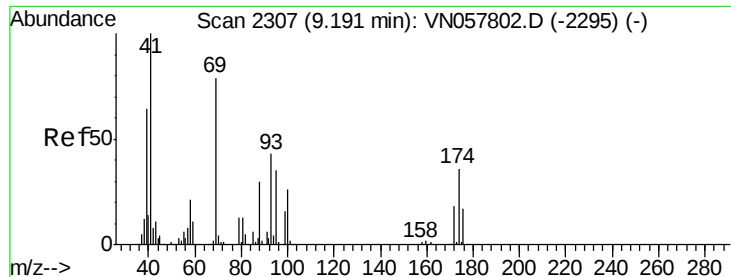
63 100

65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VNO
Ion 64.90 (64.60 to 65.60): VNO

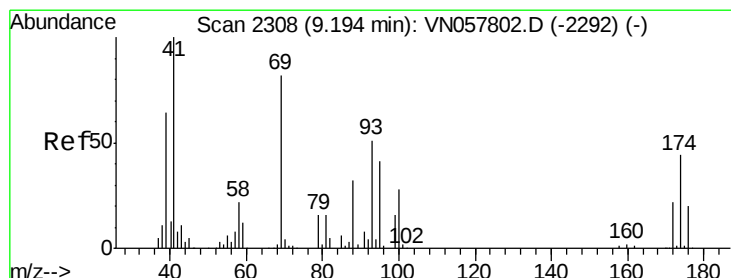
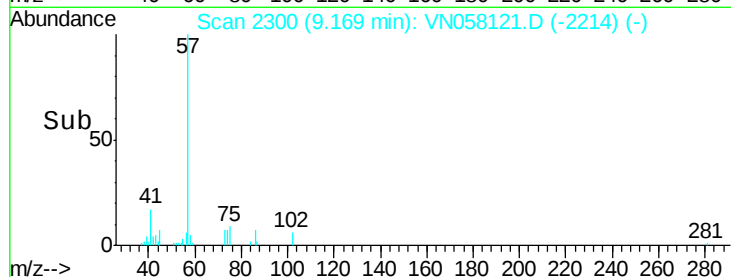
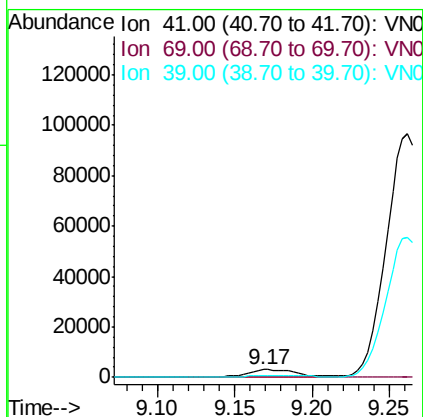
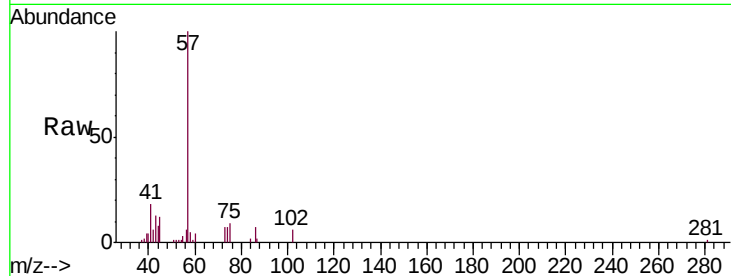




#48
Methyl methacrylate
Concen: 1.077 ug/l
RT: 9.17 min Scan# 2300
Delta R.T. -0.02 min
Lab File: VN058121.D
Acq: 16 Sep 2019 16:07

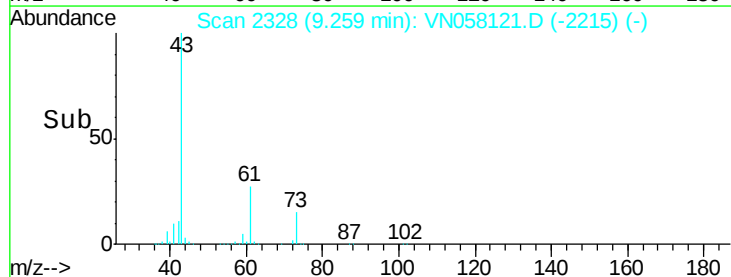
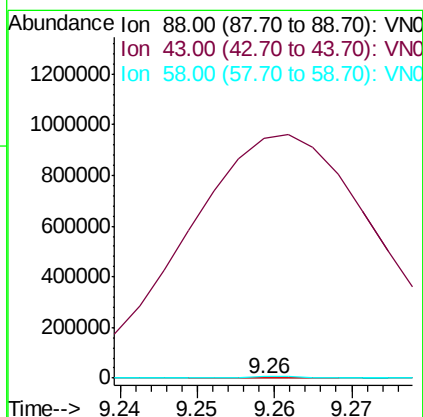
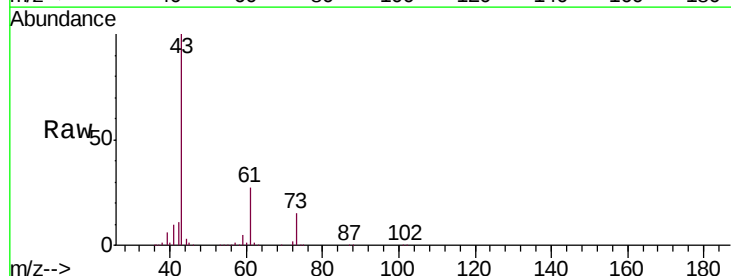
Instrument :
MSVOA_N
ClientSampleId :
T4-4-(1.5)-HELLGATE

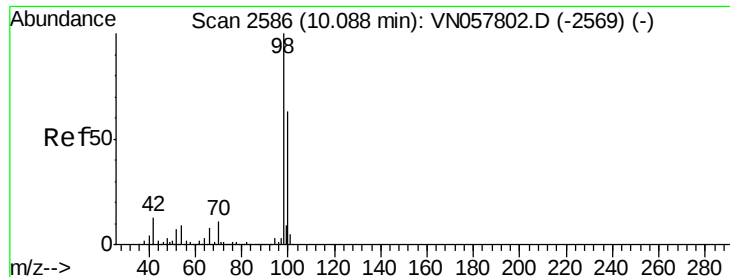
Tgt Ion: 41 Resp: 6405
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#



#49
1,4-Dioxane
Concen: 0.935 ug/l
RT: 9.26 min Scan# 2328
Delta R.T. 0.06 min
Lab File: VN058121.D
Acq: 16 Sep 2019 16:07

Tgt Ion: 88 Resp: 94
Ion Ratio Lower Upper
88 100
43 1877727.7 28.5 42.7#
58 8838.3 55.8 83.6#





#50

Toluene-d8

Concen: 45.678 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058121.D

Acq: 16 Sep 2019 16:07

Instrument :

MSVOA_N

ClientSampleId :

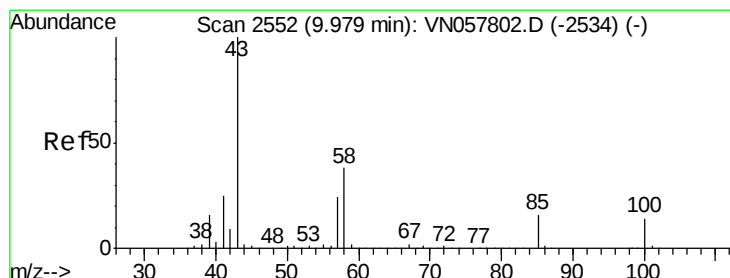
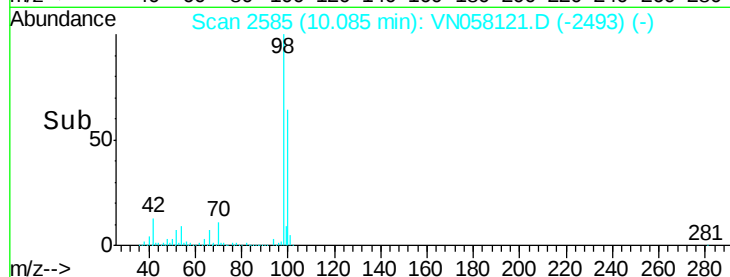
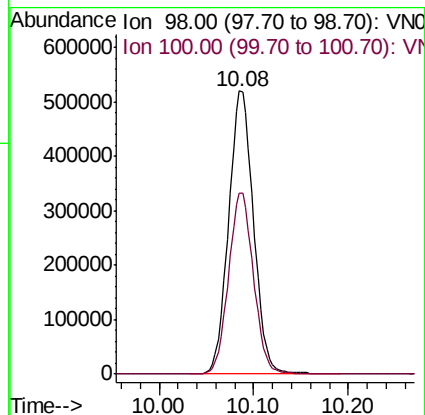
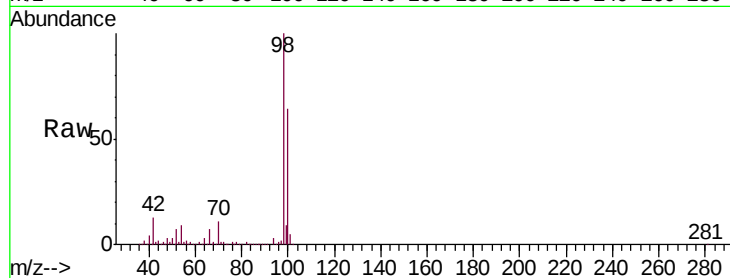
T4-4(1.5)-HELLGATE

Tgt Ion: 98 Resp: 952299

Ion Ratio Lower Upper

98 100

100 64.0 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 1.220 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN058121.D

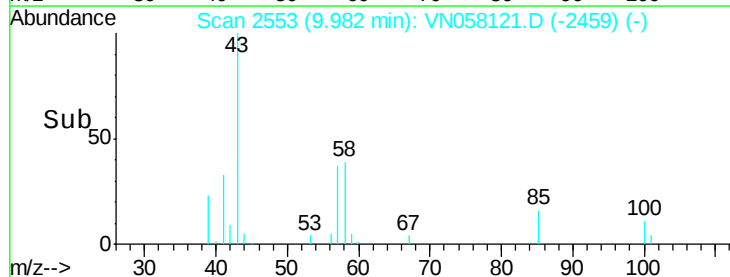
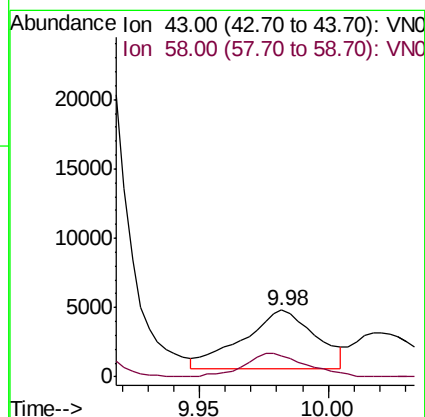
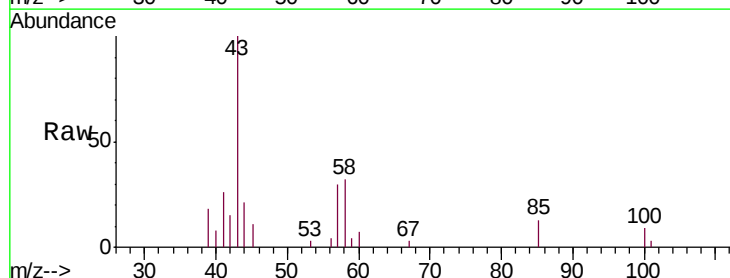
Acq: 16 Sep 2019 16:07

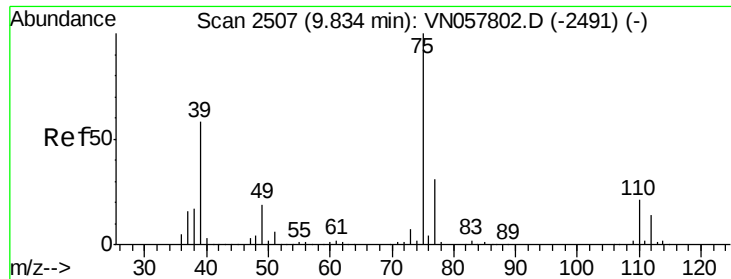
Tgt Ion: 43 Resp: 8462

Ion Ratio Lower Upper

43 100

58 33.6 29.8 44.6



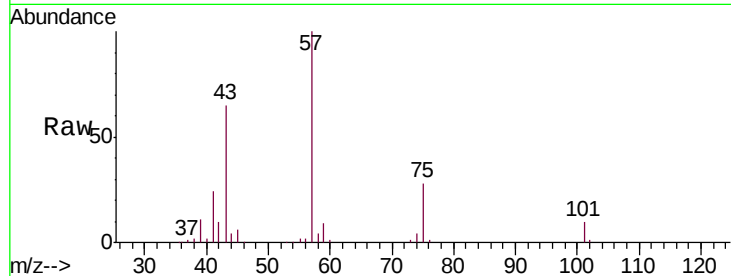


#54

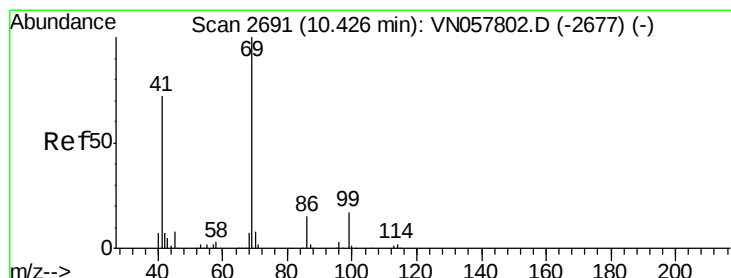
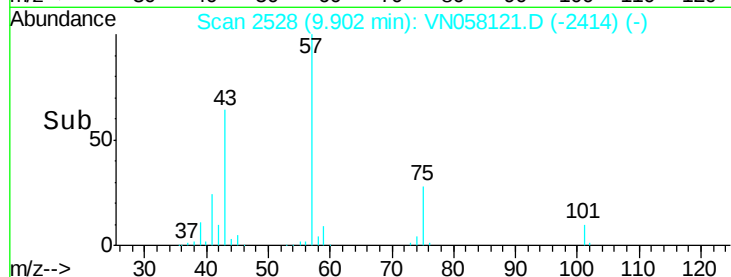
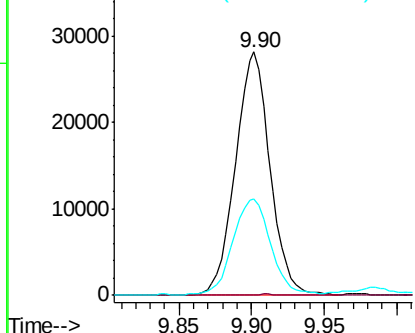
cis-1,3-Dichloropropene
 Concen: 5.628 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN058121.D
 Acq: 16 Sep 2019 16:07

Instrument :
 MSVOA_N
 ClientSampleId :
 T4-4(1.5)-HELLGATE

Tgt Ion: 75 Resp: 46672
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 39.1 46.2 69.4#



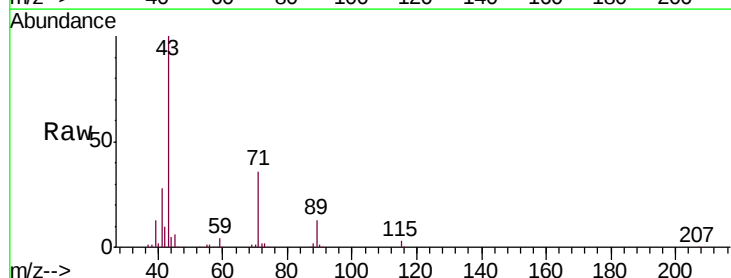
Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO



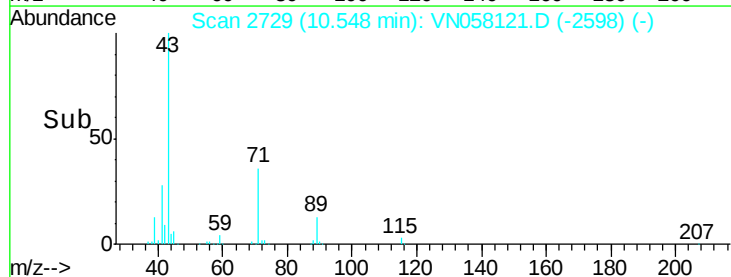
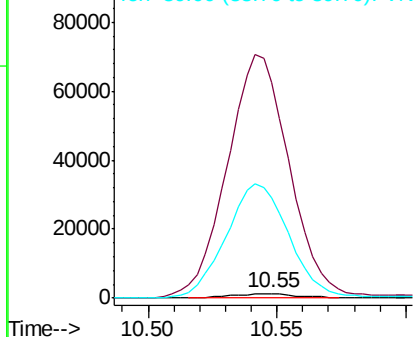
#56

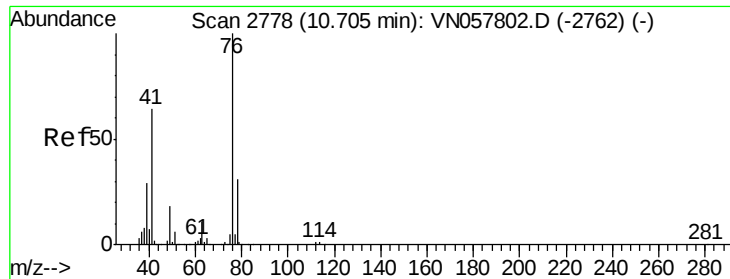
Ethyl methacrylate
 Concen: 0.255 ug/l
 RT: 10.55 min Scan# 2729
 Delta R.T. 0.12 min
 Lab File: VN058121.D
 Acq: 16 Sep 2019 16:07

Tgt Ion: 69 Resp: 2082
 Ion Ratio Lower Upper
 69 100
 41 5720.9 56.7 85.1#
 39 2714.0 36.3 54.5#



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

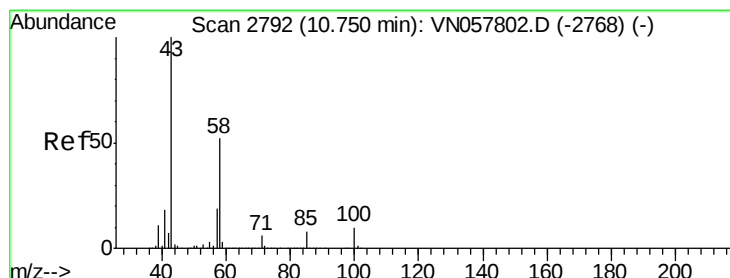
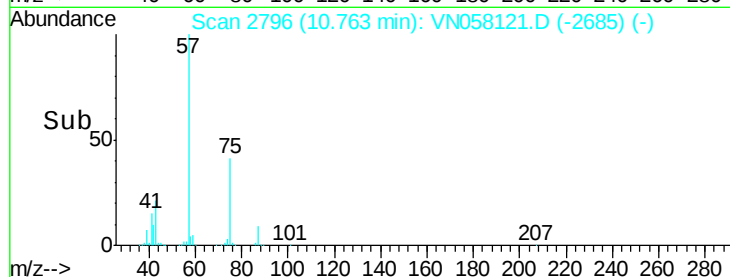
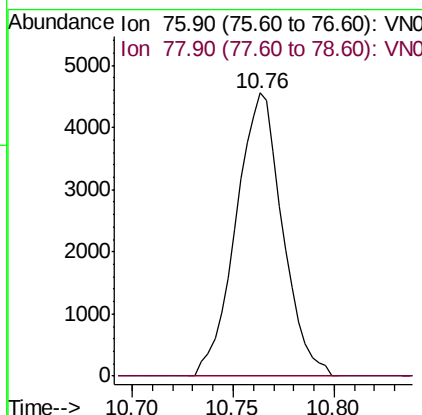
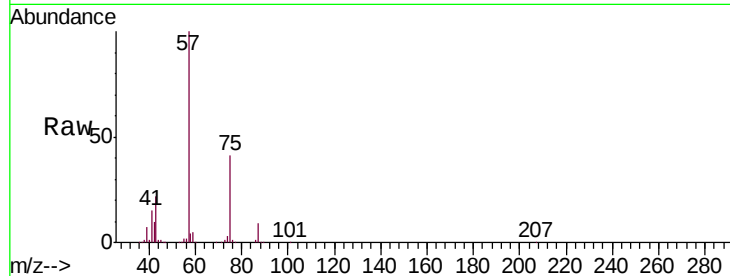




#57
 1,3-Dichloropropane
 Concen: 0.788 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN058121.D
 Acq: 16 Sep 2019 16:07

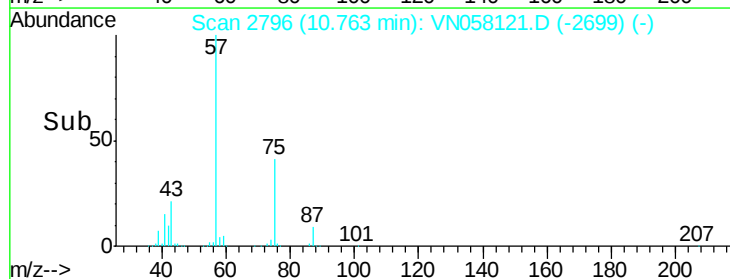
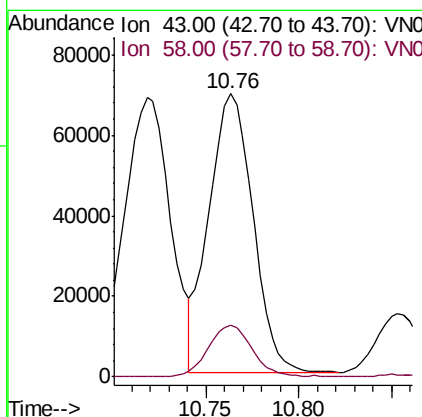
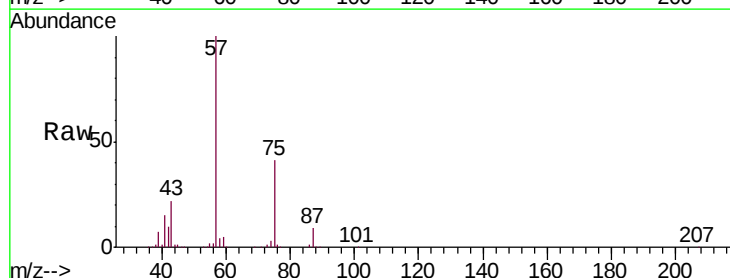
Instrument :
 MSVOA_N
 ClientSampleId :
 T4-4(1.5)-HELLGATE

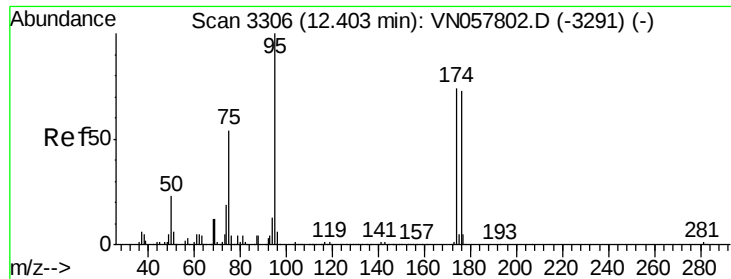
Tgt Ion: 76 Resp: 7358
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#



#59
 2-Hexanone
 Concen: 22.008 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN058121.D
 Acq: 16 Sep 2019 16:07

Tgt Ion: 43 Resp: 114440
 Ion Ratio Lower Upper
 43 100
 58 18.5 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 40.493 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058121.D

Acq: 16 Sep 2019 16:07

Instrument :

MSVOA_N

ClientSampleId :

T4-4-(1.5)-HELLGATE

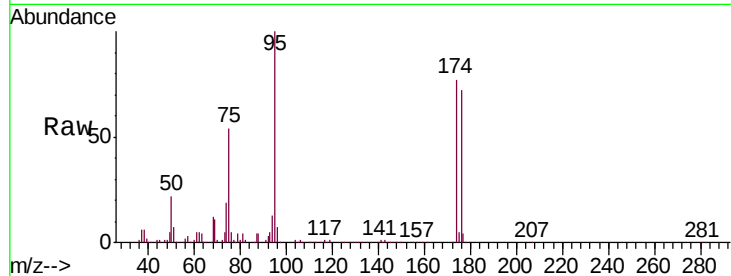
Tgt Ion: 95 Resp: 321718

Ion Ratio Lower Upper

95 100

174 75.1 0.0 150.2

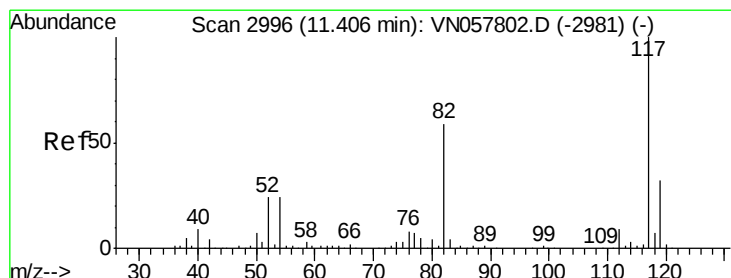
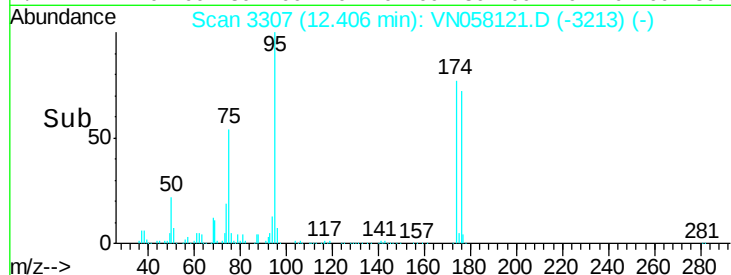
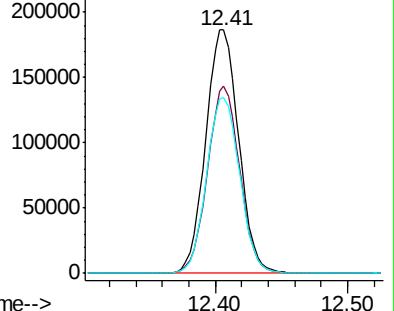
176 72.7 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN058121.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN058121.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN058121.D (-3213) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058121.D

Acq: 16 Sep 2019 16:07

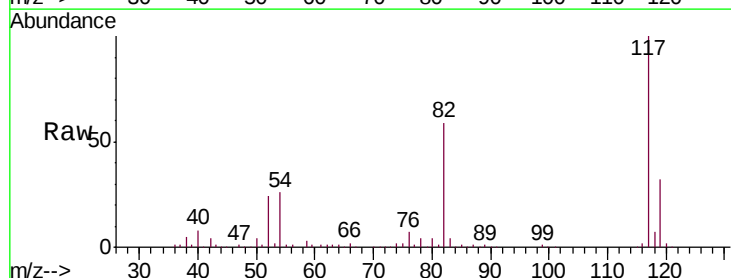
Tgt Ion: 117 Resp: 540507

Ion Ratio Lower Upper

117 100

82 58.7 47.2 70.8

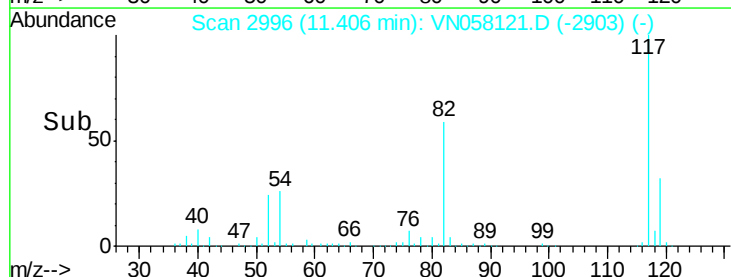
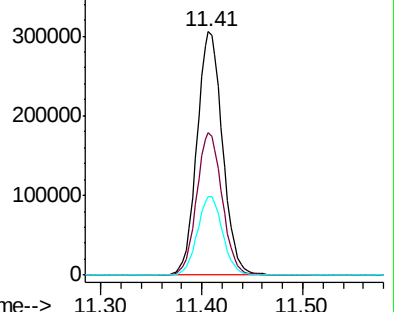
119 32.2 25.3 37.9

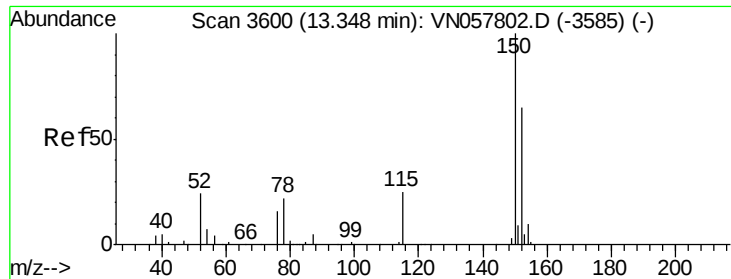


Abundance Ion 116.90 (116.60 to 117.60): VN058121.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN058121.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN058121.D (-2903) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058121.D

Acq: 16 Sep 2019 16:07

Instrument :

MSVOA_N

ClientSampleId :

T4-4-(1.5)-HELLGATE

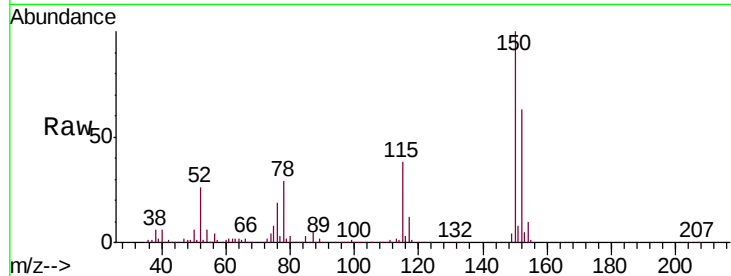
Tgt Ion:152 Resp: 286773

Ion Ratio Lower Upper

152 100

115 61.4 30.3 91.0

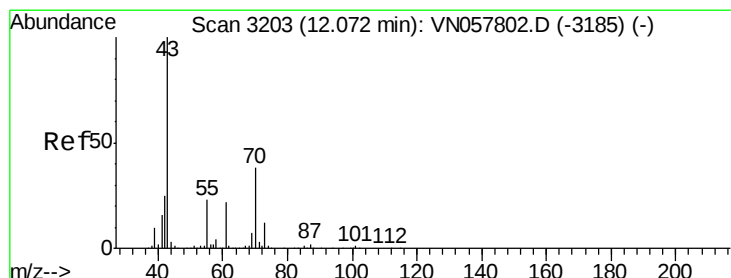
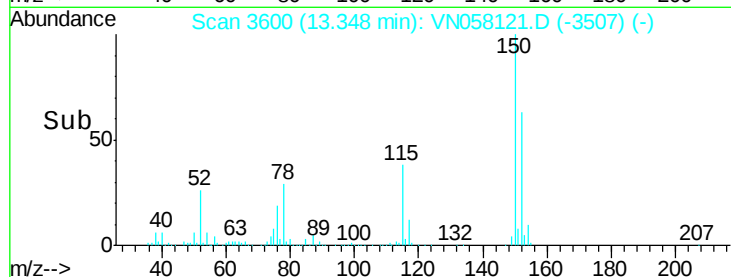
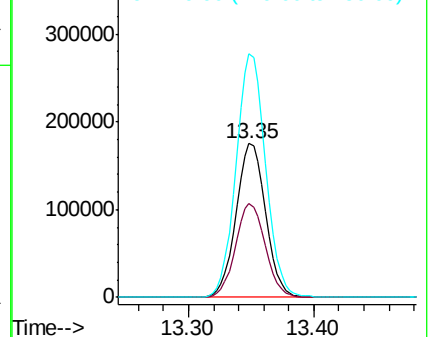
150 158.3 0.0 352.4



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



#74

N-ethyl acetate

Concen: 0.591 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN058121.D

Acq: 16 Sep 2019 16:07

Tgt Ion: 43 Resp: 5725

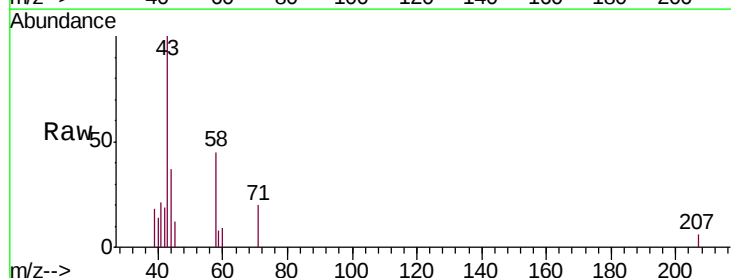
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 3.9 18.6 27.8#

61 0.0 17.4 26.2#

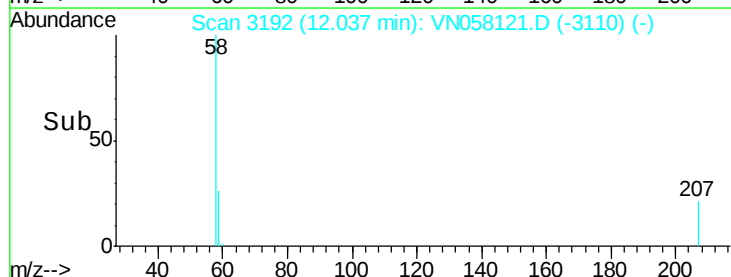
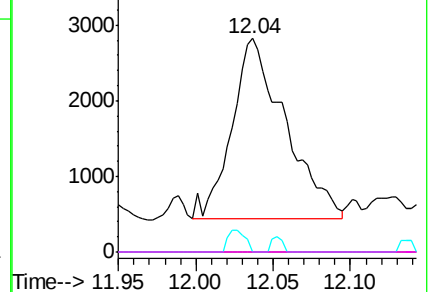


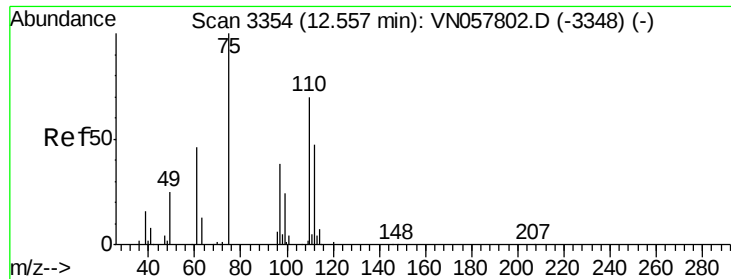
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

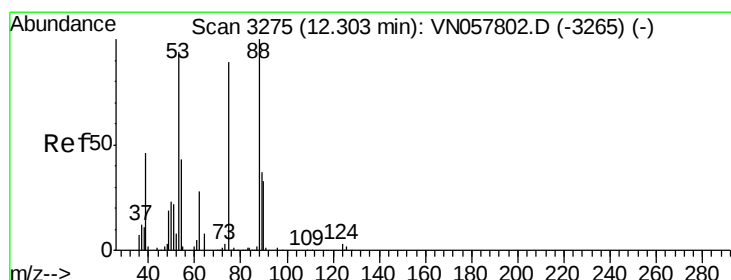
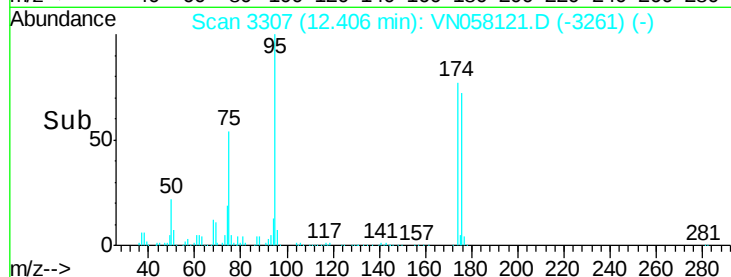
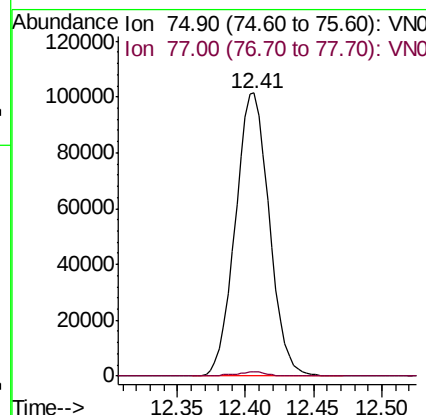
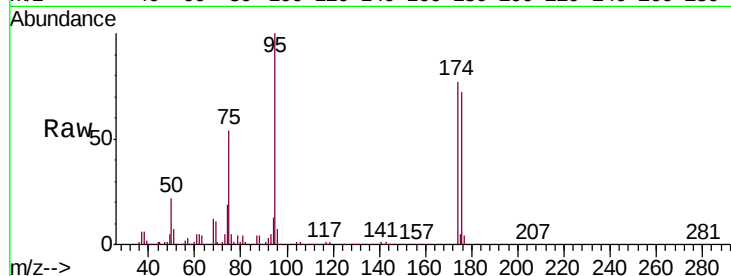




#76
 1,2,3-Trichloropropane
 Concen: 27.001 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. -0.15 min
 Lab File: VN058121.D
 Acq: 16 Sep 2019 16:07

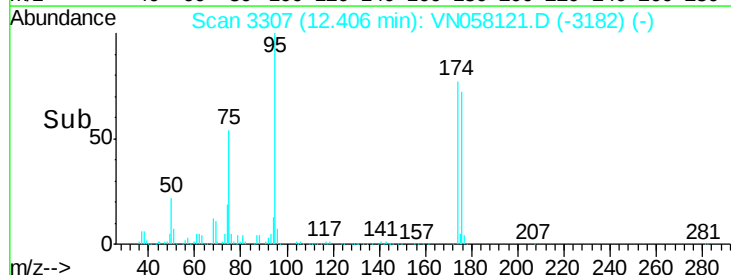
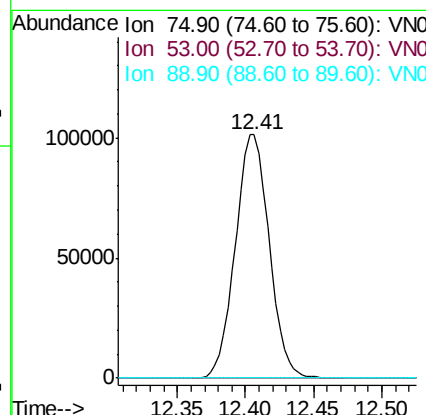
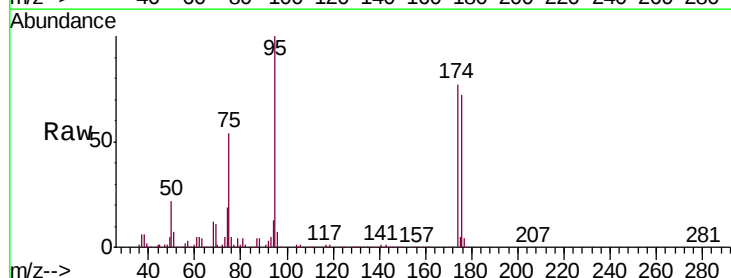
Instrument :
 MSVOA_N
 ClientSampleId :
 T4-4-(1.5)-HELLGATE

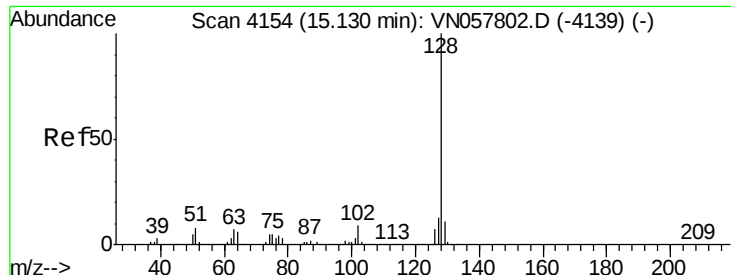
Tgt Ion: 75 Resp: 175166
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 95.018 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.10 min
 Lab File: VN058121.D
 Acq: 16 Sep 2019 16:07

Tgt Ion: 75 Resp: 175166
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.4 132.6#
 89 0.0 35.3 52.9#

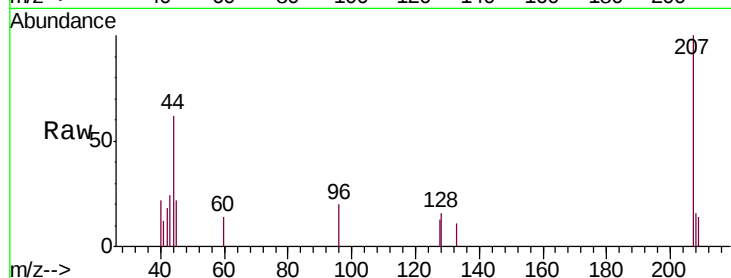




#95
Naphthalene
Concen: Below Cal
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN058121.D
Acq: 16 Sep 2019 16:07

Instrument :
MSVOA_N
ClientSampleId :
T4-4-(1.5)-HELLGATE

Tgt 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): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

