

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092218\
 Data File : VN051373.D
 Acq On : 21 Sep 2018 17:00
 Operator : MD\SY
 Sample : PB113086ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 21 23:02:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092018W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 21 04:23:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	767979	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1143794	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	958192	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	358256	50.00	ug/l	0.00

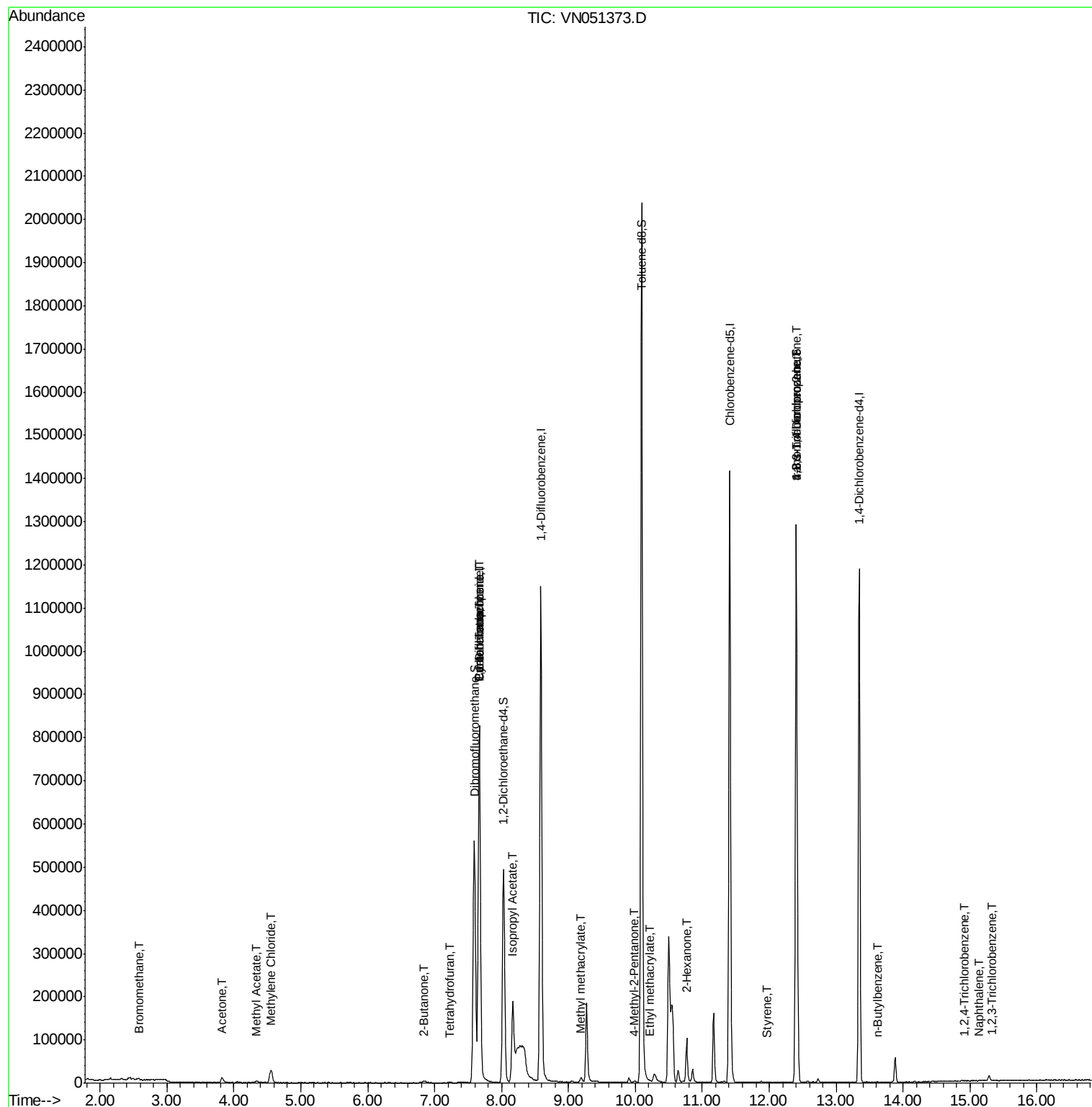
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	431474	51.84	ug/l	0.00
Spiked Amount			Recovery	=	103.68%	
35) Dibromofluoromethane	7.59	113	427713	46.27	ug/l	0.00
Spiked Amount			Recovery	=	92.54%	
50) Toluene-d8	10.09	98	1527404	42.98	ug/l	0.00
Spiked Amount			Recovery	=	85.96%	
62) 4-Bromofluorobenzene	12.40	95	420570	36.38	ug/l	0.00
Spiked Amount			Recovery	=	72.76%	

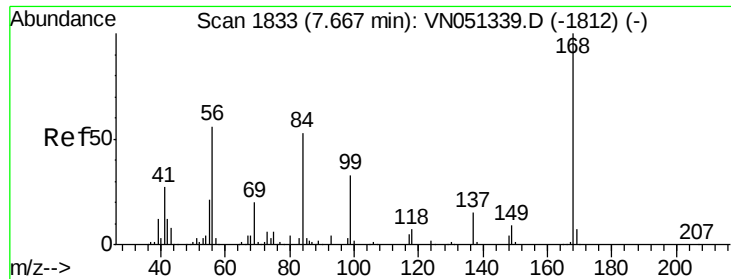
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	1151	Below Cal	#	86
5) Bromomethane	2.58	94	1402	0.222	ug/l #	69
16) Acetone	3.82	43	20353	11.112	ug/l	98
18) Methyl Acetate	4.33	43	7637	0.489	ug/l #	69
20) Methylene Chloride	4.55	84	23387	2.733	ug/l	96
25) 2-Butanone	6.85	43	4555	1.915	ug/l #	85
29) Tetrahydrofuran	7.23	42	833	0.553	ug/l #	89
31) Cyclohexane	7.67	56	10882	0.436	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	45385	3.879	ug/l #	49
38) Carbon Tetrachloride	7.67	117	64058	5.061	ug/l #	16
43) Isopropyl Acetate	8.17	43	232570	22.927	ug/l	96
48) Methyl methacrylate	9.18	41	5007	0.968	ug/l #	18
51) 4-Methyl-2-Pentanone	9.99	43	2129	0.390	ug/l	98
56) Ethyl methacrylate	10.22	69	1707	1.745	ug/l #	75
59) 2-Hexanone	10.77	43	14521	3.947	ug/l #	54
70) Styrene	11.97	104	167	0.901	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.41	83	437	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	192063	40.067	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	192063	120.195	ug/l #	14
89) n-Butylbenzene	13.62	91	351	1.446	ug/l #	49
93) 1,2,4-Trichlorobenzene	14.92	180	155	4.119	ug/l #	12
95) Naphthalene	15.13	128	382	5.359	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.33	180	62	3.254	ug/l #	41

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

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Quant Title : SW846 8260
QLast Update : Fri Sep 21 04:23:57 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051373.D

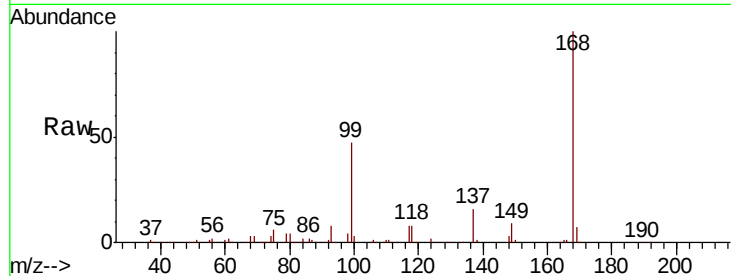
Acq: 21 Sep 2018 17:00

Tot Ion:168 Resp: 767979

Ion Ratio Lower Upper

168 100

99 46.8 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN051373.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN051373.D (-1740) (-)

7.67

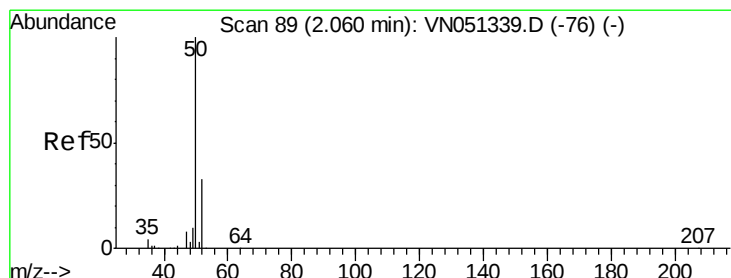
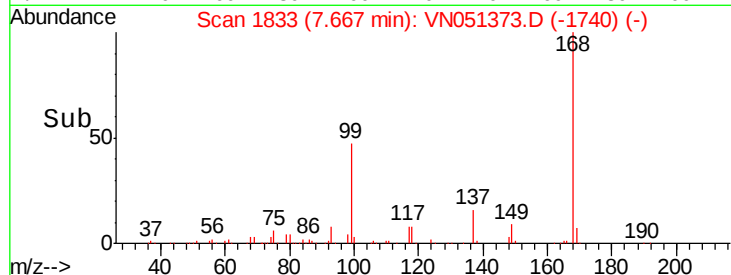
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN051373.D

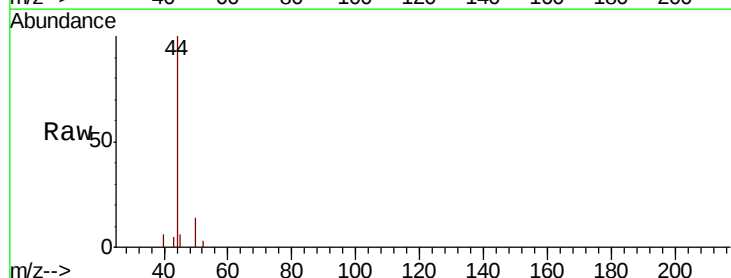
Acq: 21 Sep 2018 17:00

Tgt Ion: 50 Resp: 1151

Ion Ratio Lower Upper

50 100

52 25.6 26.7 40.1#



Abundance Ion 49.90 (49.60 to 50.60): VN051373.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VN051373.D (-1) (-)

2.06

1000

800

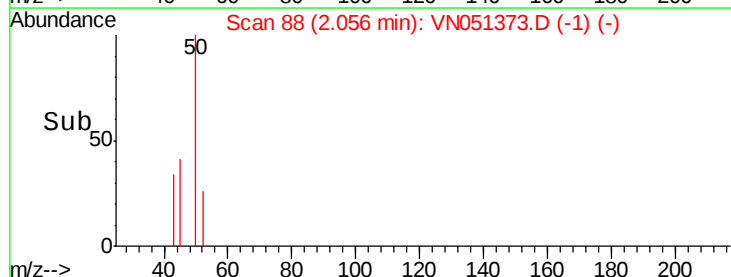
600

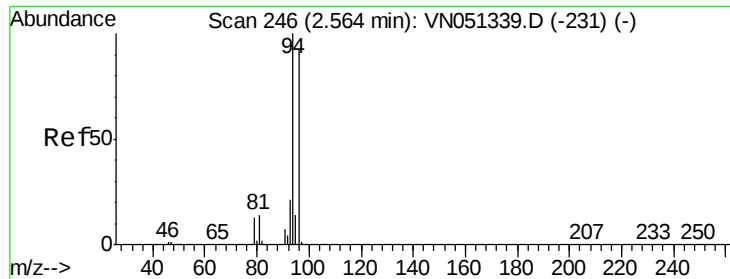
400

200

0

Time--> 2.02 2.04 2.06 2.08 2.10





#5

Bromomethane

Concen: 0.222 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN051373.D

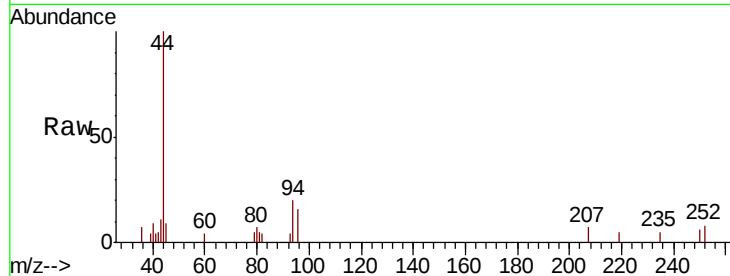
Acq: 21 Sep 2018 17:00

Tot Ion: 94 Resp: 1402

Ion Ratio Lower Upper

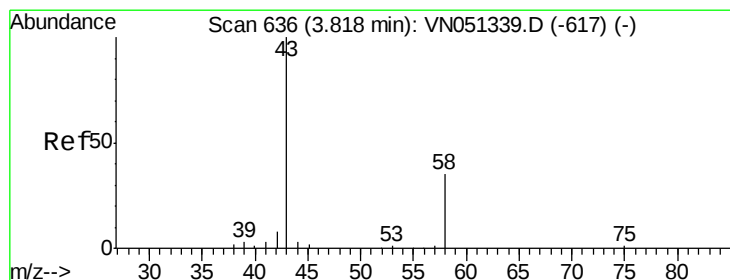
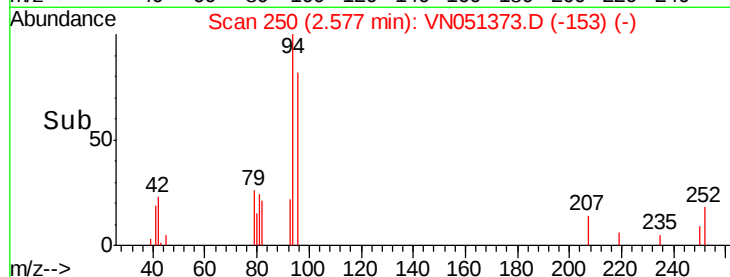
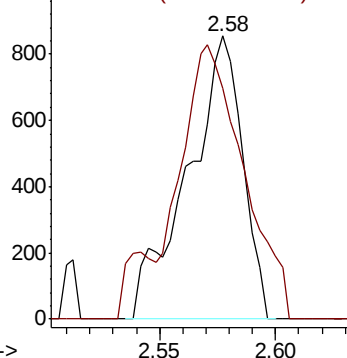
94 100

96 62.3 73.8 110.8#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#16

Acetone

Concen: 11.112 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN051373.D

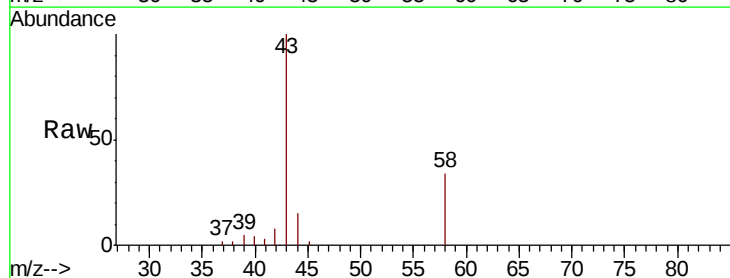
Acq: 21 Sep 2018 17:00

Tgt Ion: 43 Resp: 20353

Ion Ratio Lower Upper

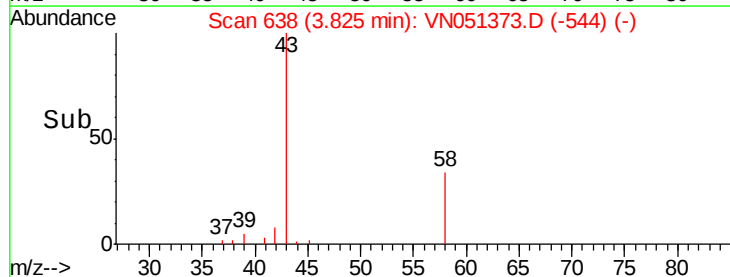
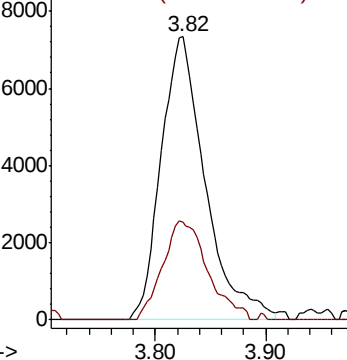
43 100

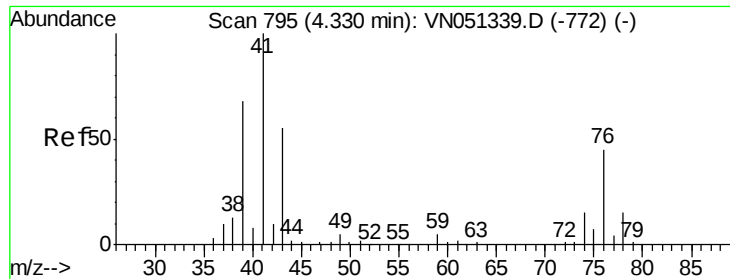
58 34.5 28.3 42.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

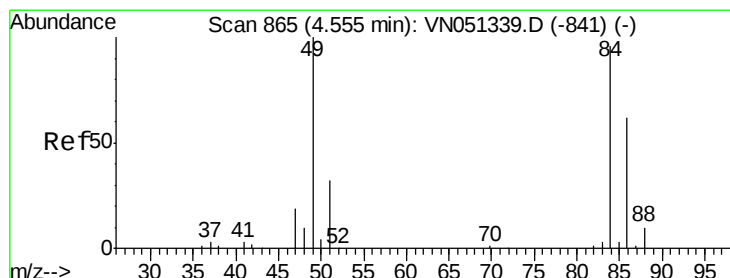
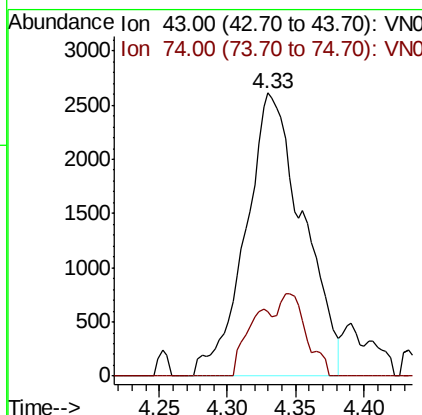
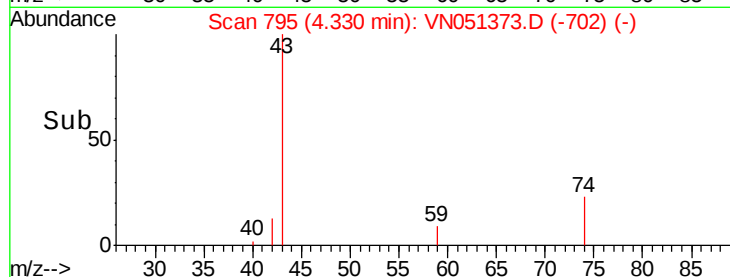
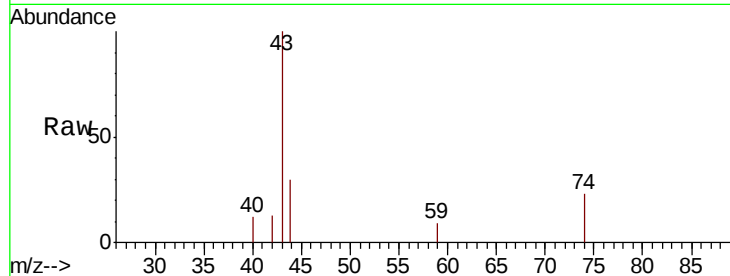
Ion 58.00 (57.70 to 58.70): VN0





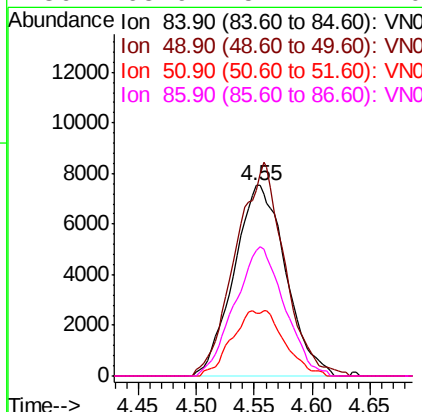
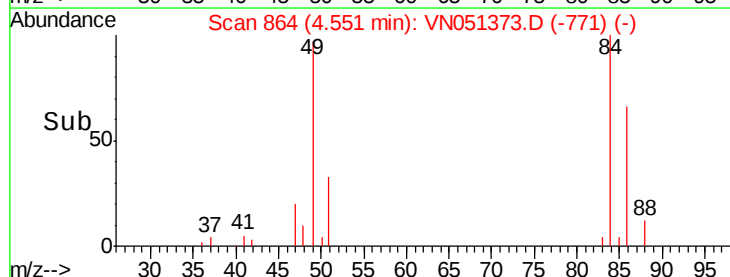
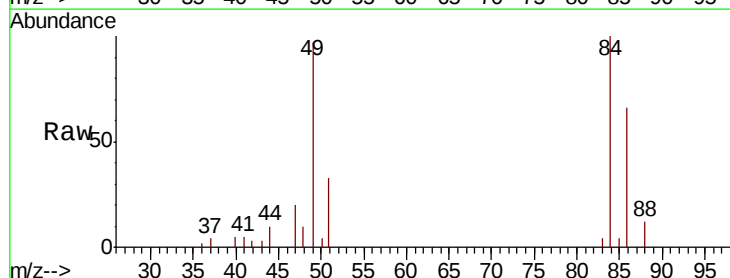
#18
Methyl Acetate
Concen: 0.489 ug/l
RT: 4.33 min Scan# 795
Delta R.T. -0.00 min
Lab File: VN051373.D
Acq: 21 Sep 2018 17:00

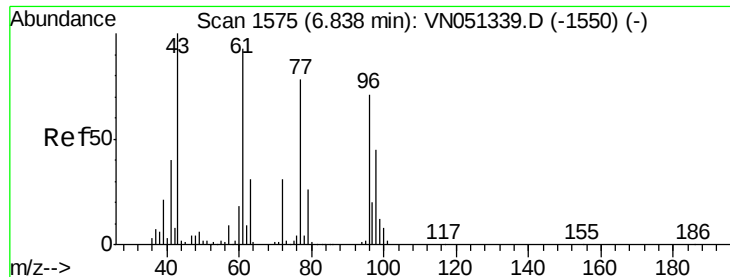
Tot Ion: 43 Resp: 7637
Ion Ratio Lower Upper
43 100
74 10.8 21.7 32.5#



#20
Methylene Chloride
Concen: 2.733 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN051373.D
Acq: 21 Sep 2018 17:00

Tgt Ion: 84 Resp: 23387
Ion Ratio Lower Upper
84 100
49 97.3 83.2 124.8
51 32.9 26.4 39.6
86 65.9 51.4 77.0





#25

2-Butanone

Concen: 1.915 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VN051373.D

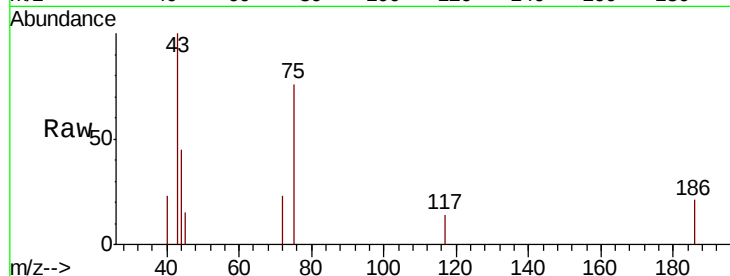
Acq: 21 Sep 2018 17:00

Tot Ion: 43 Resp: 4555

Ion Ratio Lower Upper

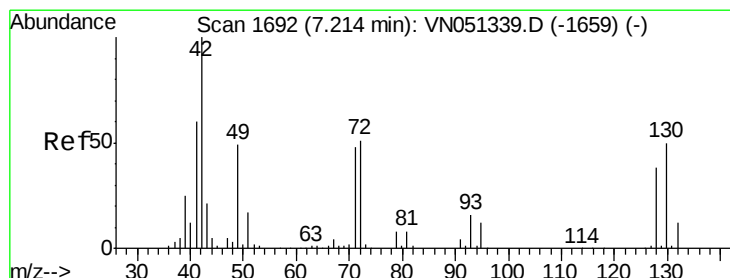
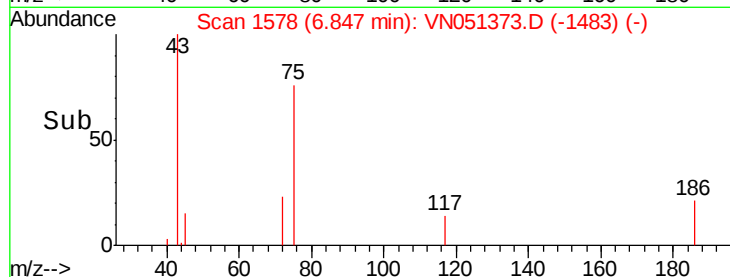
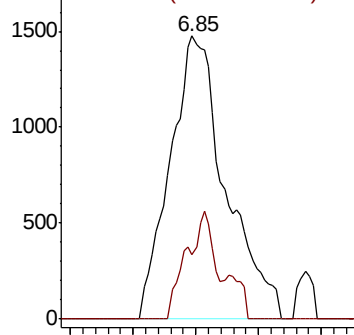
43 100

72 22.7 24.7 37.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 0.553 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.01 min

Lab File: VN051373.D

Acq: 21 Sep 2018 17:00

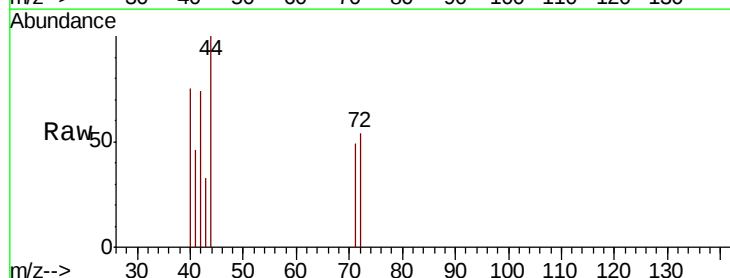
Tgt Ion: 42 Resp: 833

Ion Ratio Lower Upper

42 100

72 34.8 39.0 58.4#

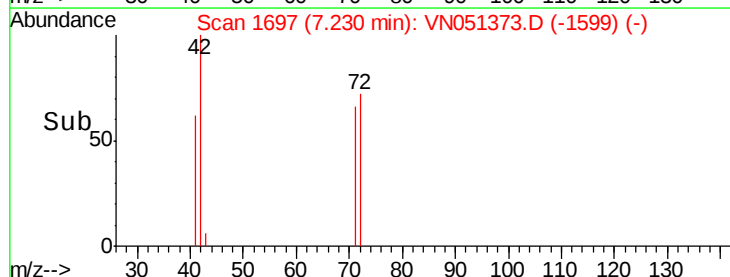
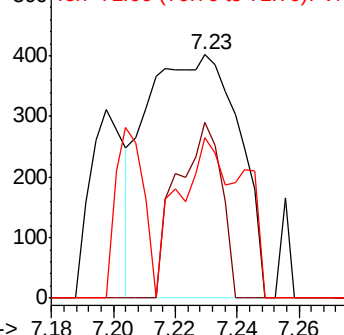
71 46.6 36.5 54.7

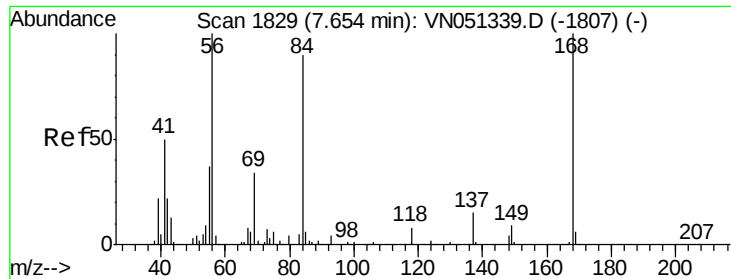


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

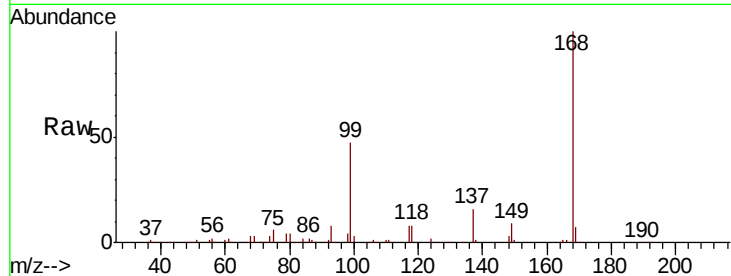
Ion 71.00 (70.70 to 71.70): VN0



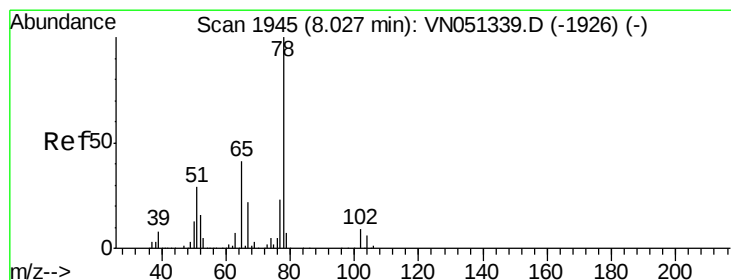
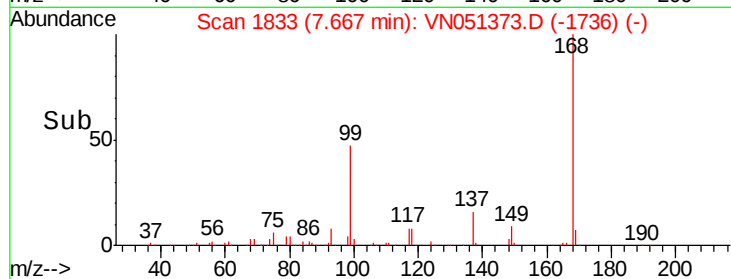
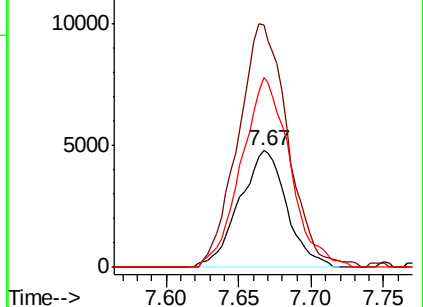


#31
Cvclohexane
Concen: 0.436 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN051373.D
Acq: 21 Sep 2018 17:00

Tot Ion: 56 Resp: 10882
Ion Ratio Lower Upper
56 100
69 207.3 27.3 40.9#
84 162.4 72.2 108.2#

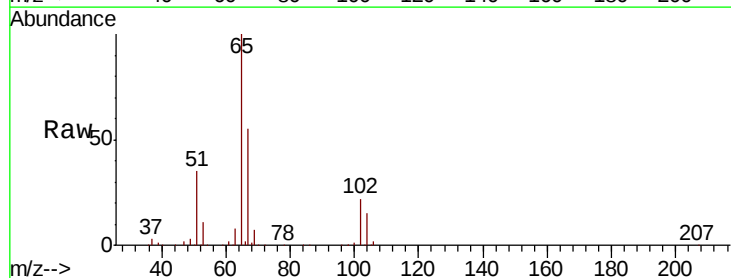


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

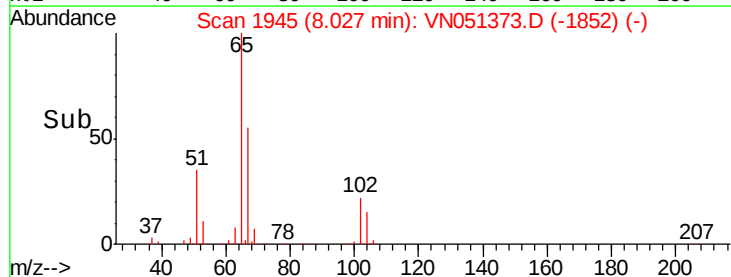
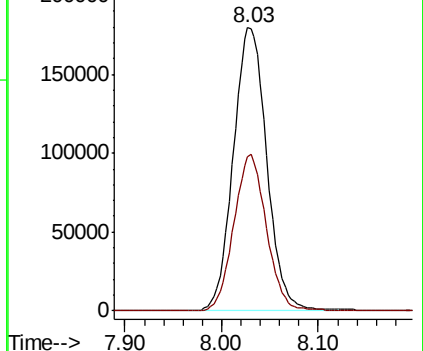


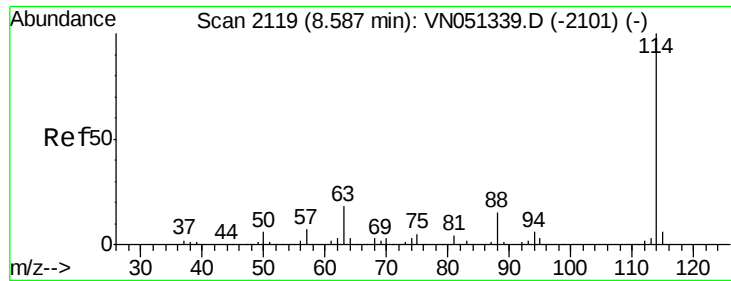
#33
1,2-Dichloroethane-d4
Concen: 51.836 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN051373.D
Acq: 21 Sep 2018 17:00

Tgt Ion: 65 Resp: 431474
Ion Ratio Lower Upper
65 100
67 54.0 0.0 108.8



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

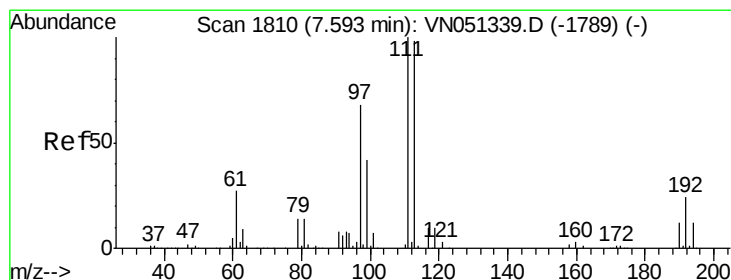
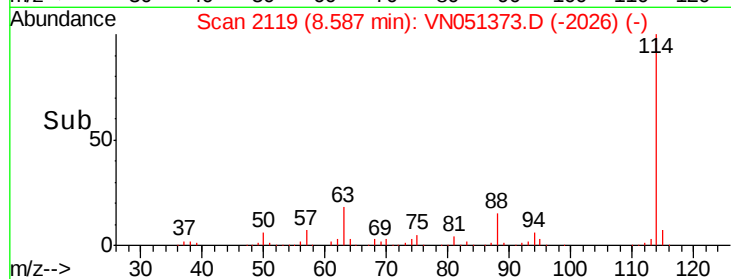
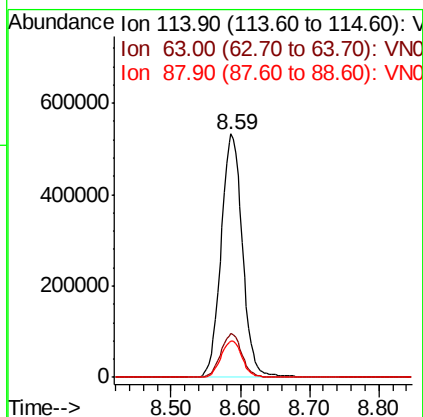
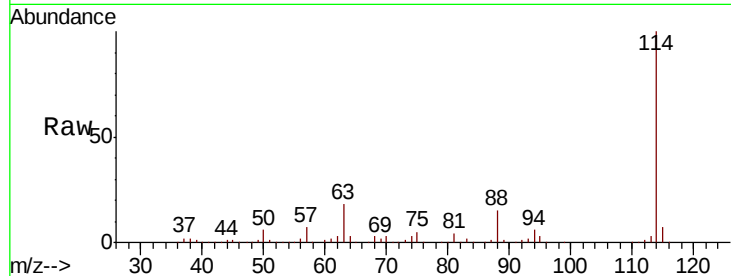




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051373.D
 Acq: 21 Sep 2018 17:00

Tot Ion:114 Resp: 1143794

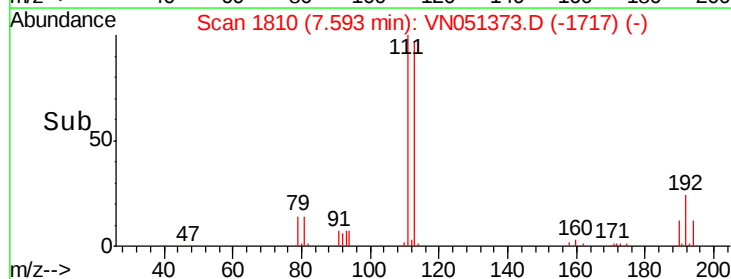
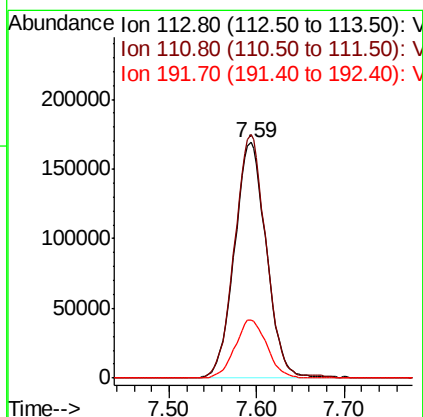
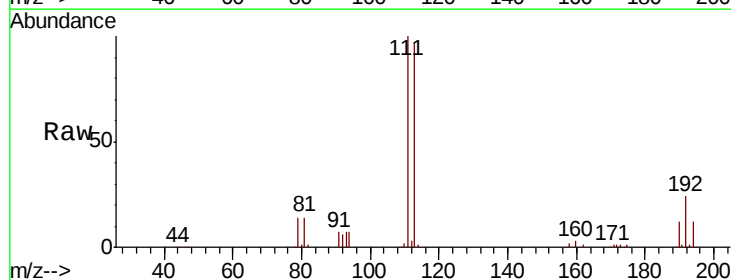
Ion	Ratio	Lower	Upper
114	100		
63	17.9	0.0	36.6
88	15.1	0.0	29.8

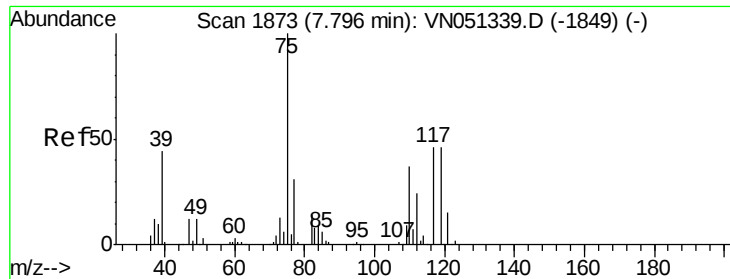


#35
 Dibromofluoromethane
 Concen: 46.272 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051373.D
 Acq: 21 Sep 2018 17:00

Tgt Ion:113 Resp: 427713

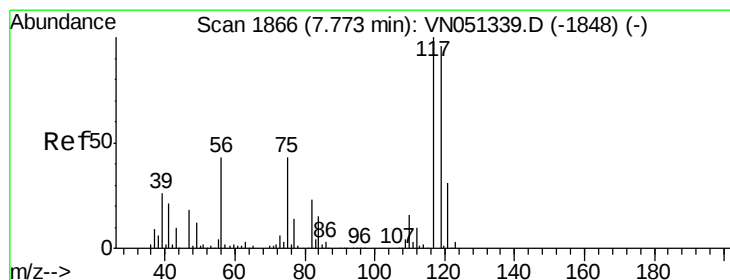
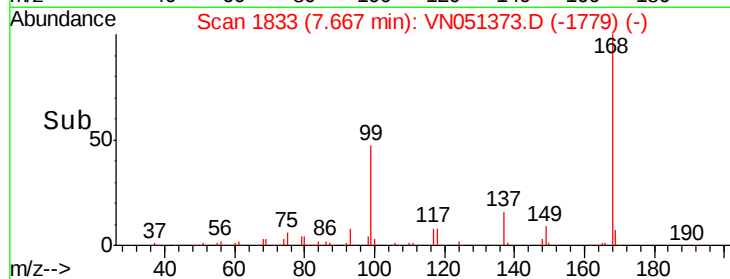
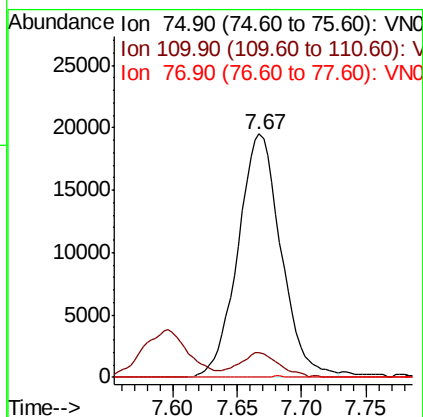
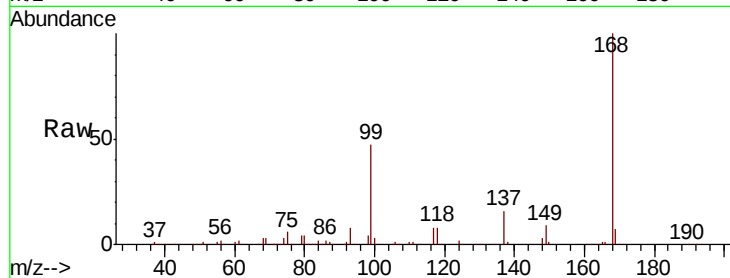
Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.9	122.9
192	24.6	19.8	29.6





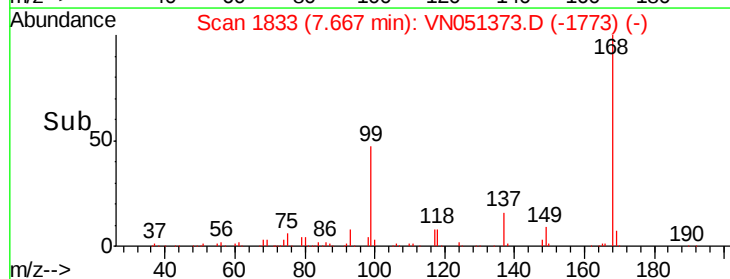
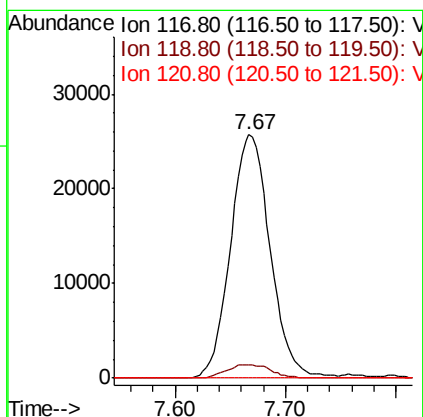
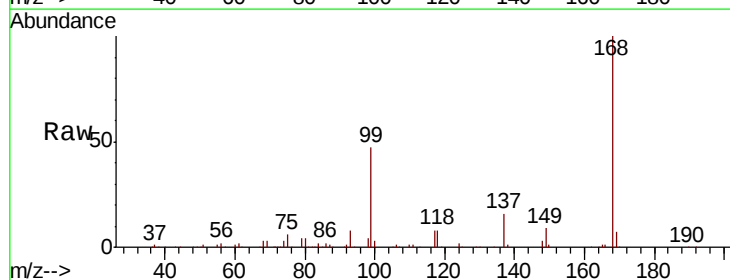
#36
 1,1-Dichloropropene
 Concen: 3.879 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051373.D
 Acq: 21 Sep 2018 17:00

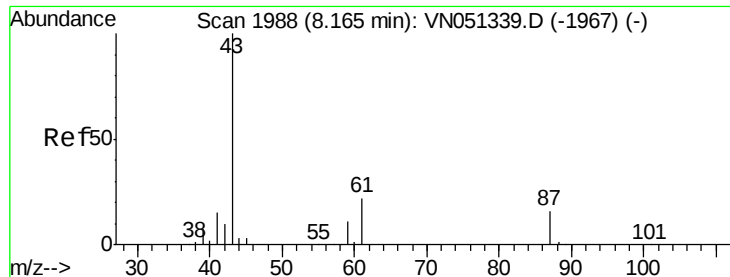
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.5	18.9	56.5#
77	0.1	25.4	38.2#



#38
 Carbon Tetrachloride
 Concen: 5.061 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051373.D
 Acq: 21 Sep 2018 17:00

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.6	77.0	115.4#
121	0.0	25.0	37.4#





#43

Isopropyl Acetate

Concen: 22.927 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051373.D

Acq: 21 Sep 2018 17:00

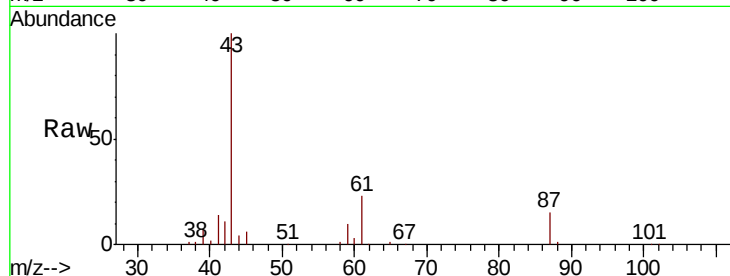
Tot Ion: 43 Resp: 232570

Ion Ratio Lower Upper

43 100

61 20.3 18.1 27.1

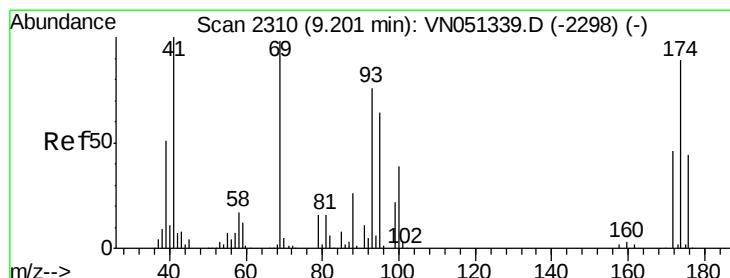
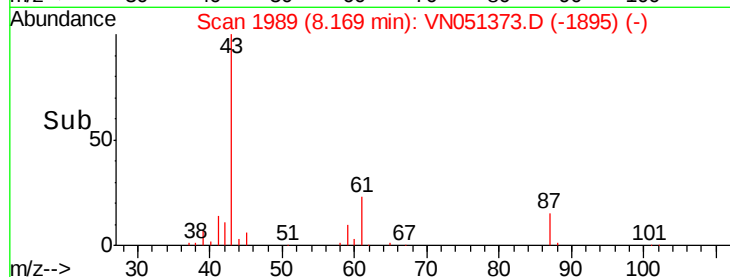
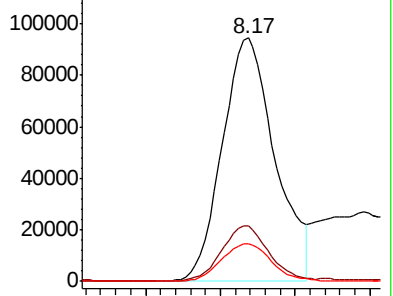
87 14.6 12.8 19.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#48

Methyl methacrylate

Concen: 0.968 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN051373.D

Acq: 21 Sep 2018 17:00

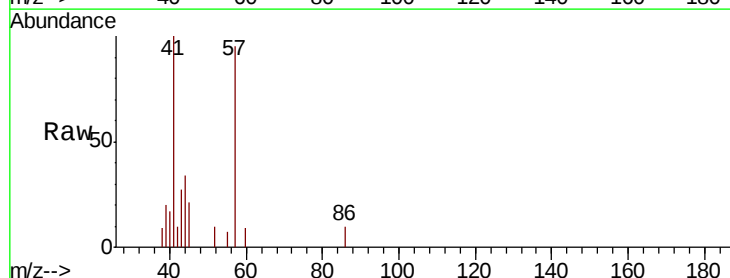
Tgt Ion: 41 Resp: 5007

Ion Ratio Lower Upper

41 100

69 0.0 79.4 119.0#

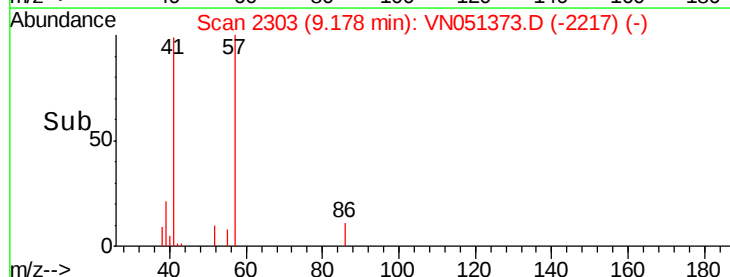
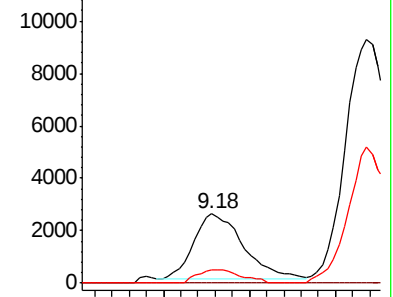
39 18.0 43.0 64.6#

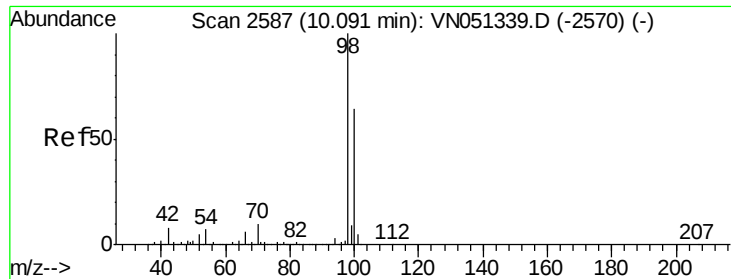


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

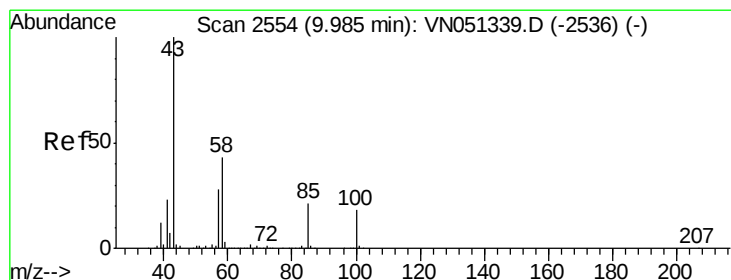
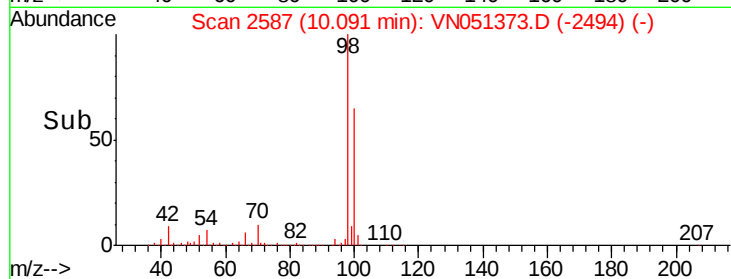
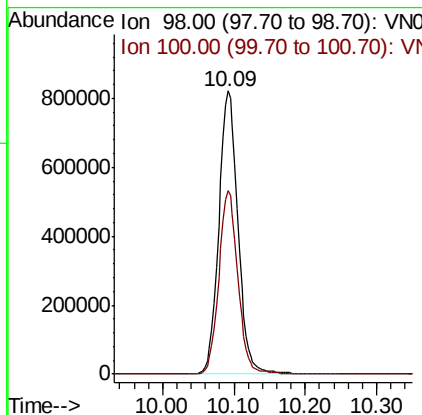
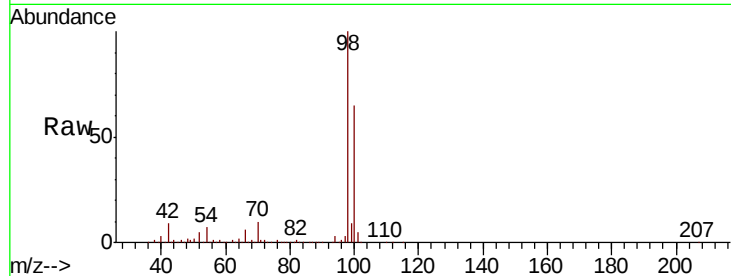
Ion 39.00 (38.70 to 39.70): VN0





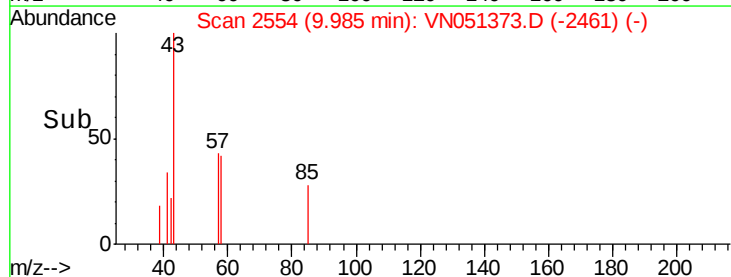
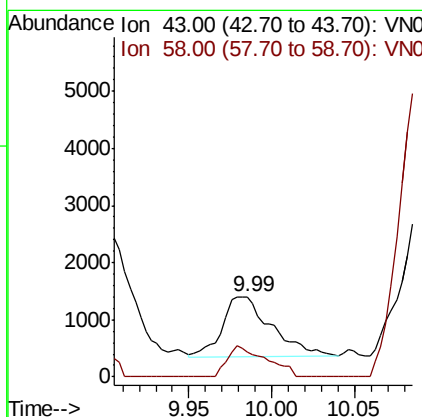
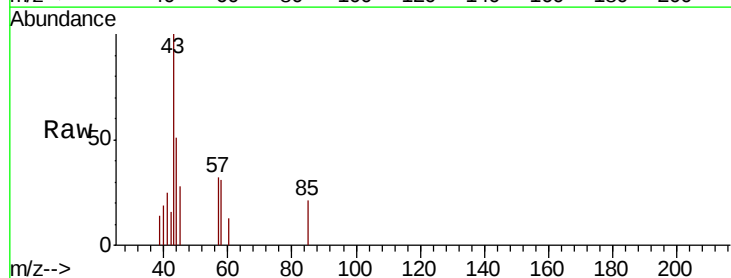
#50
Toluene-d8
Concen: 42.984 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051373.D
Acq: 21 Sep 2018 17:00

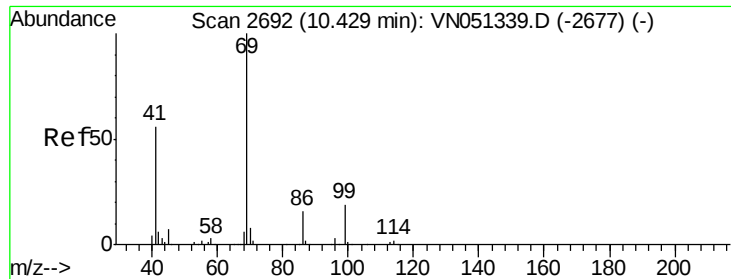
Tot Ion: 98 Resp: 1527404
Ion Ratio Lower Upper
98 100
100 64.3 51.3 76.9



#51
4-Methyl-2-Pentanone
Concen: 0.390 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN051373.D
Acq: 21 Sep 2018 17:00

Tgt Ion: 43 Resp: 2129
Ion Ratio Lower Upper
43 100
58 41.2 34.2 51.4





#56

Ethyl methacrylate

Concen: 1.745 ug/l

RT: 10.22 min Scan# 2627

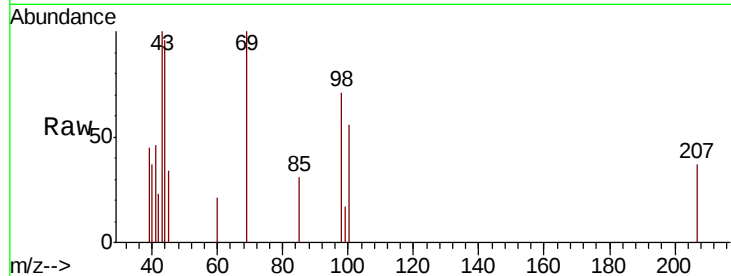
Delta R.T. -0.21 min

Lab File: VN051373.D

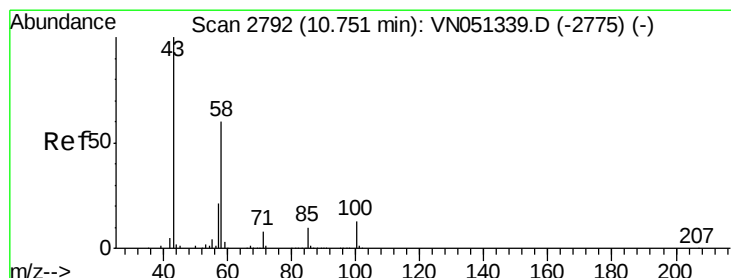
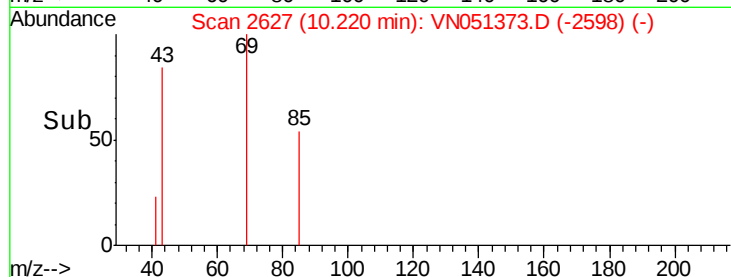
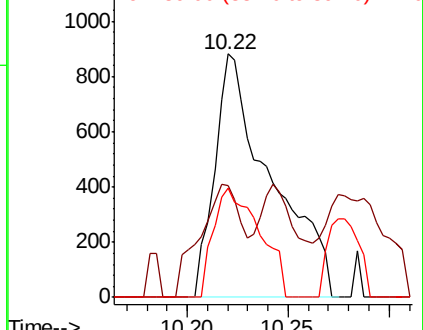
Acq: 21 Sep 2018 17:00

Tot Ion: 69 Resp: 1707

Ion	Ratio	Lower	Upper
69	100		
41	34.1	45.1	67.7#
39	36.8	23.4	35.2#



Abundance Ion 69.00 (68.70 to 69.70): VN051373.D (-2627) (-)



#59

2-Hexanone

Concen: 3.947 ug/l

RT: 10.77 min Scan# 2797

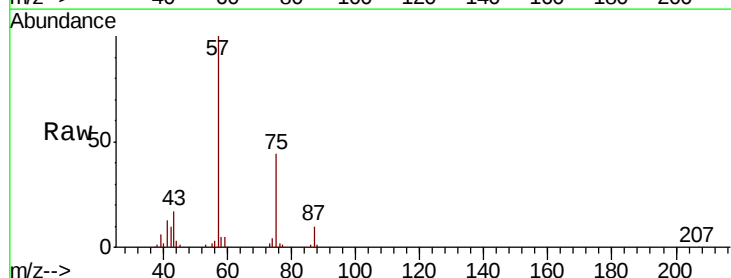
Delta R.T. 0.02 min

Lab File: VN051373.D

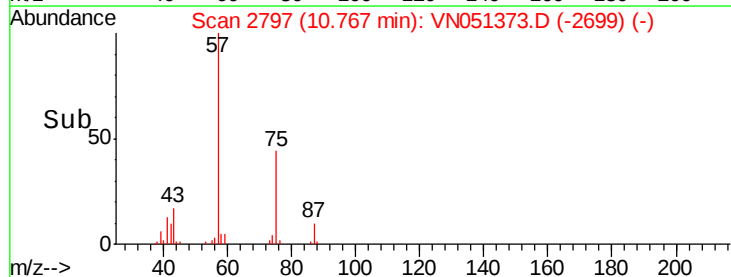
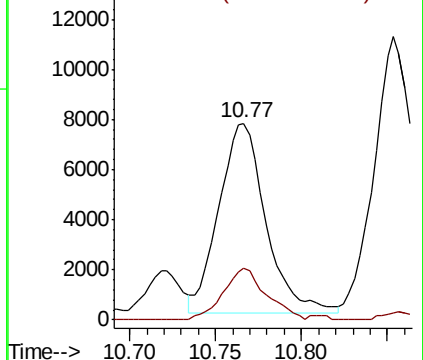
Acq: 21 Sep 2018 17:00

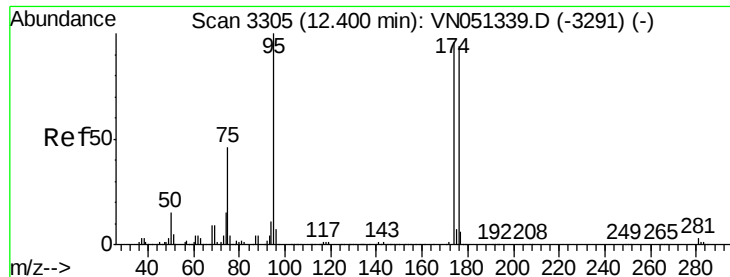
Tgt Ion: 43 Resp: 14521

Ion	Ratio	Lower	Upper
43	100		
58	24.9	29.9	89.8#



Abundance Ion 43.00 (42.70 to 43.70): VN051373.D (-2797) (-)





#62

4-Bromofluorobenzene

Concen: 36.380 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051373.D

Acq: 21 Sep 2018 17:00

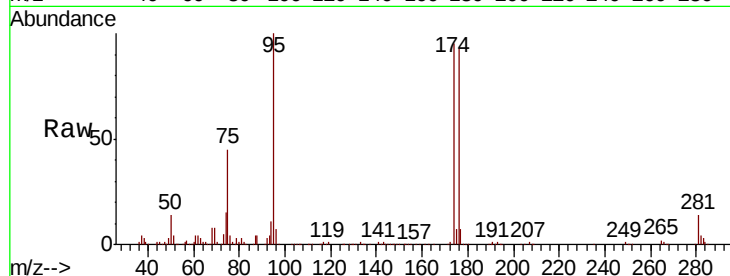
Tot Ion: 95 Resp: 420570

Ion Ratio Lower Upper

95 100

174 96.6 0.0 194.6

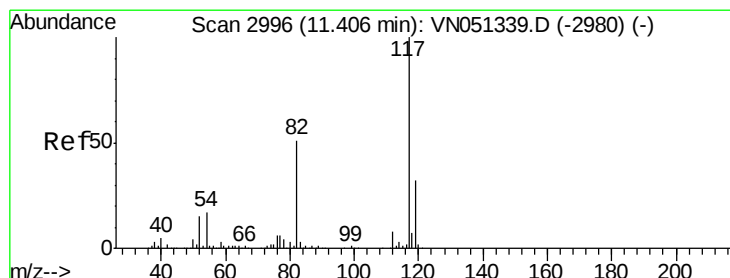
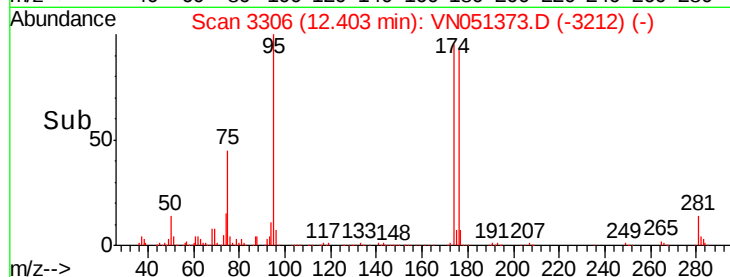
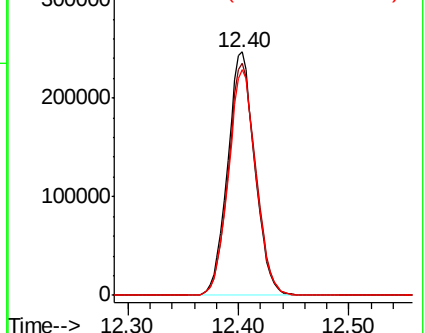
176 93.7 0.0 189.6



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051373.D

Acq: 21 Sep 2018 17:00

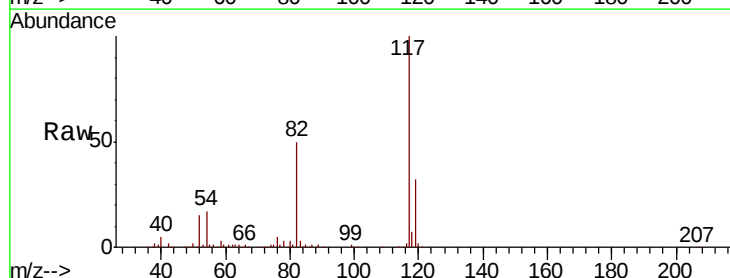
Tgt Ion: 117 Resp: 958192

Ion Ratio Lower Upper

117 100

82 50.3 40.7 61.1

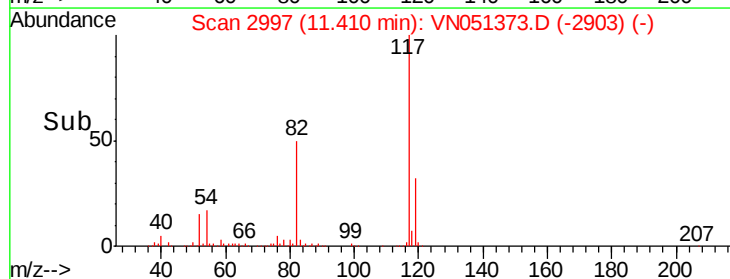
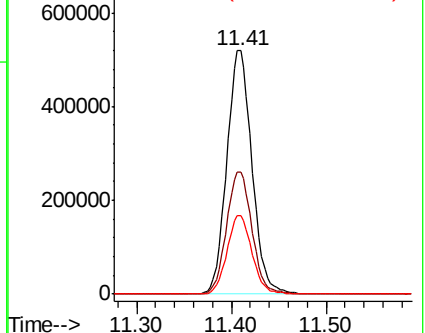
119 32.2 25.3 37.9

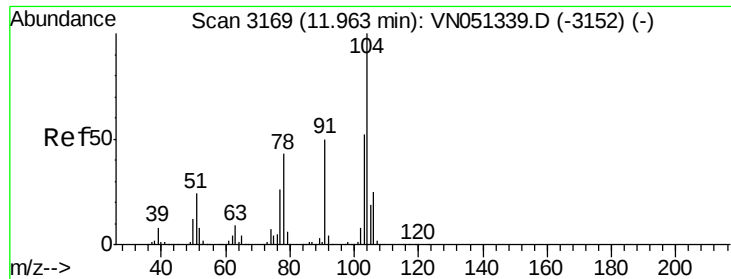


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

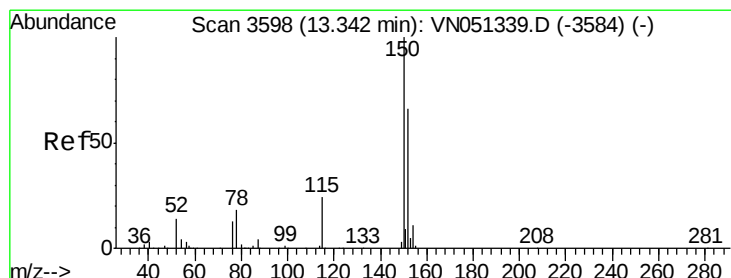
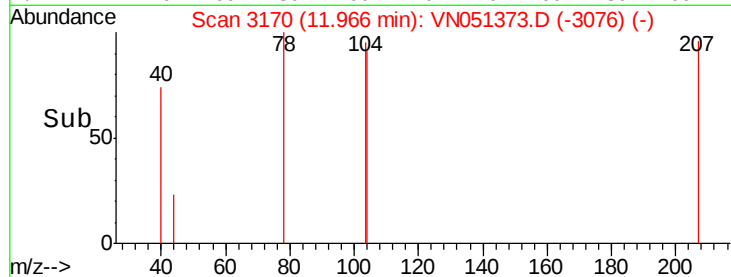
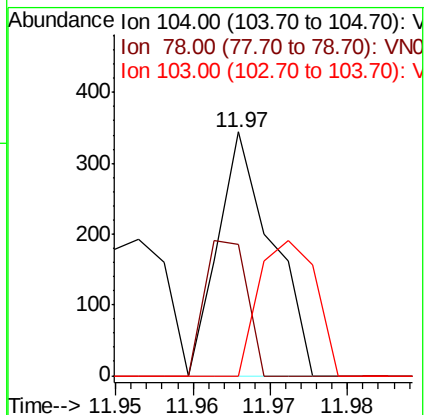
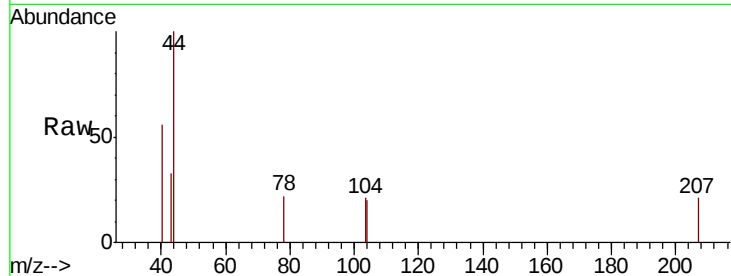
Ion 118.90 (118.60 to 119.60): VN0





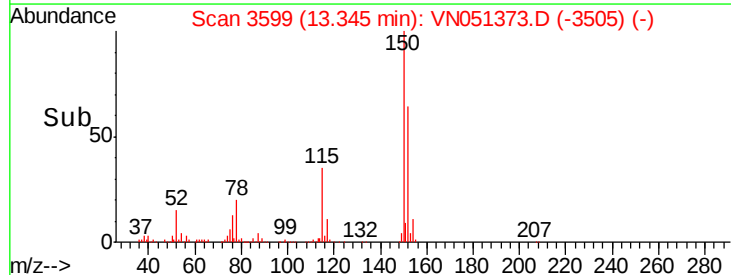
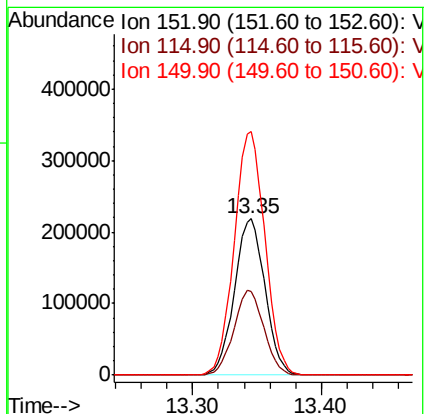
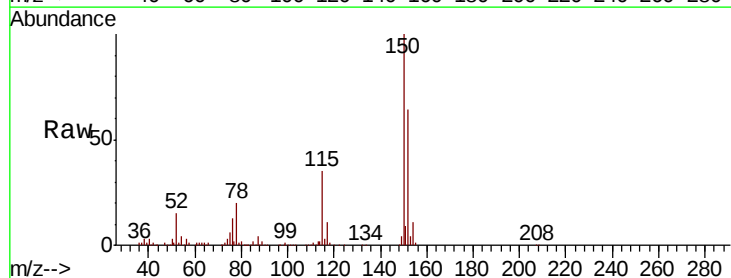
#70
Stvrene
Concen: 0.901 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN051373.D
Acq: 21 Sep 2018 17:00

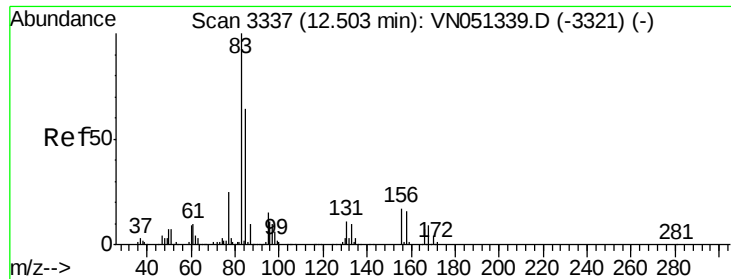
Tot Ion	Ratio	Lower	Upper
104	100		
78	43.7	37.8	56.6
103	58.7	44.3	66.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051373.D
Acq: 21 Sep 2018 17:00

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.6	26.9	80.7
150	157.1	0.0	345.0





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

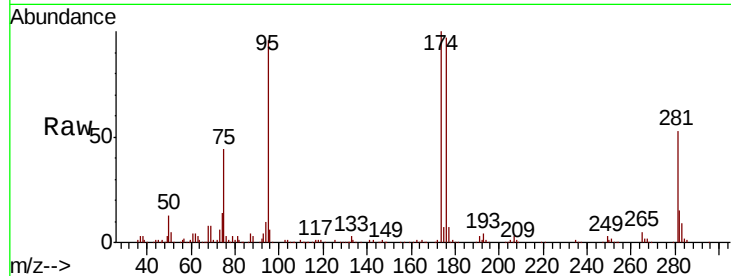
RT: 12.41 min Scan# 3309

Delta R.T. -0.09 min

Lab File: VN051373.D

Acq: 21 Sep 2018 17:00

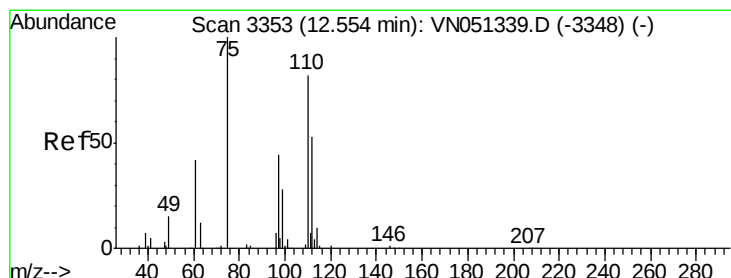
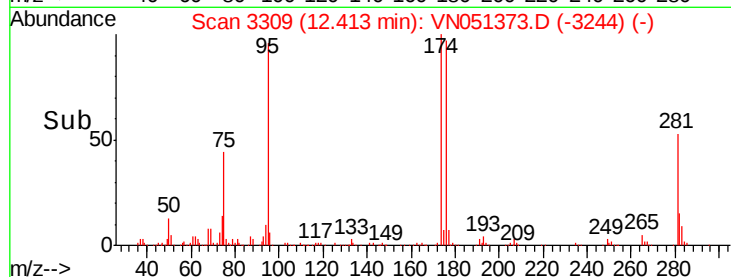
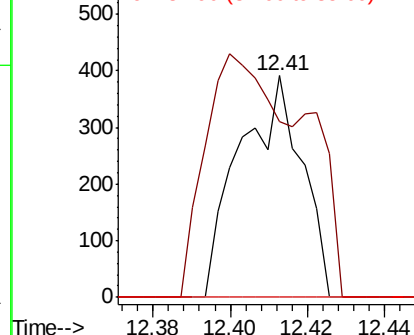
Tot Ion	83	Resp	437
Ion	Ratio	Lower	Upper
83	100		
131	132.3	5.5	16.7#
85	0.0	32.3	96.9#



Abundance Ion 82.90 (82.60 to 83.60): VN051339.D (-3321) (-)

Ion 130.80 (130.50 to 131.50): VN051339.D (-3321) (-)

Ion 84.90 (84.60 to 85.60): VN051339.D (-3321) (-)



#76

1,2,3-Trichloropropane

Concen: 40.067 ug/l

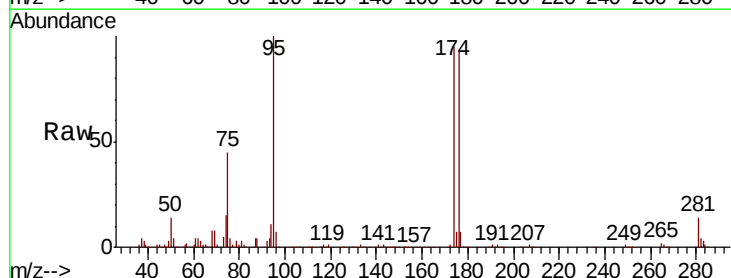
RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051373.D

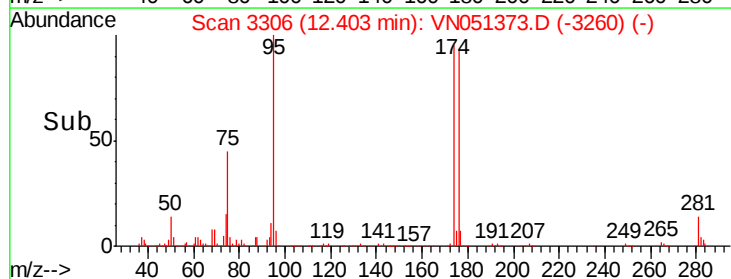
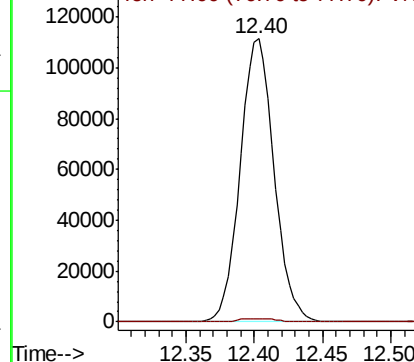
Acq: 21 Sep 2018 17:00

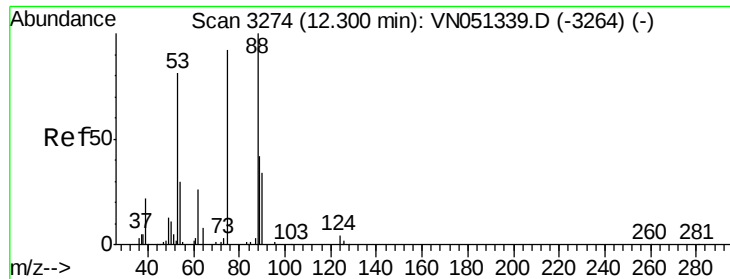
Tgt Ion	75	Resp	192063
Ion	Ratio	Lower	Upper
75	100		
77	1.4	0.0	0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN051339.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN051339.D (-3348) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 120.195 ug/l

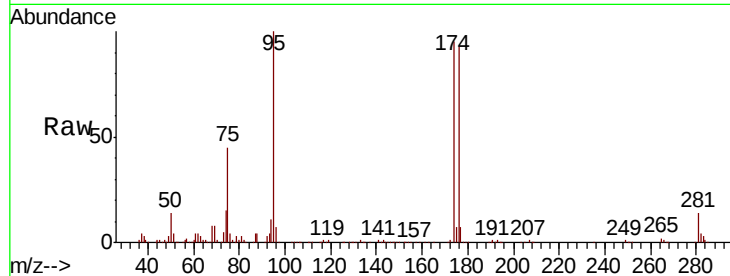
RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051373.D

Acq: 21 Sep 2018 17:00

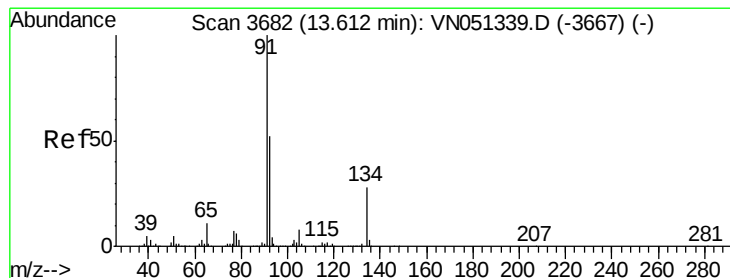
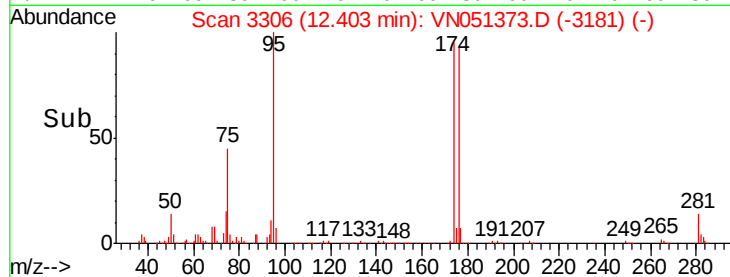
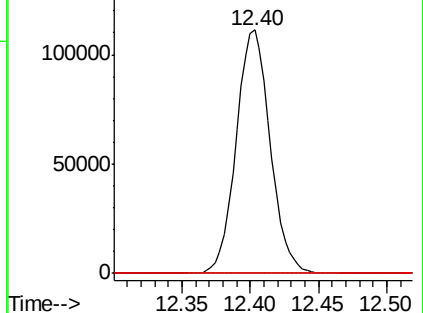
Tot Ion:	75	Resp:	192063
Ion	Ratio	Lower	Upper
75	100		
53	0.1	69.9	104.9#
89	0.0	37.9	56.9#



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



#89

n-Butylbenzene

Concen: 1.446 ug/l

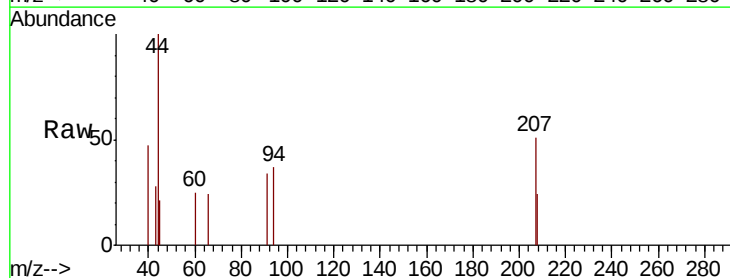
RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN051373.D

Acq: 21 Sep 2018 17:00

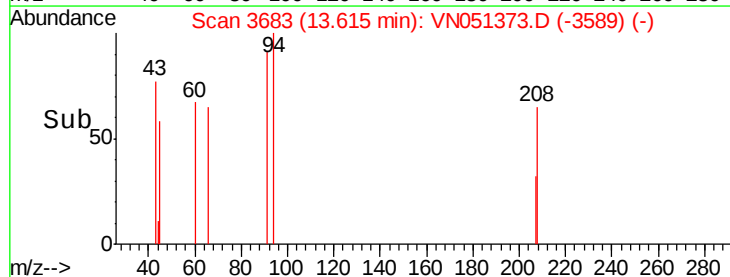
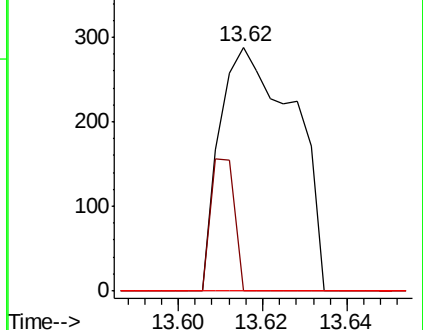
Tgt Ion:	91	Resp:	351
Ion	Ratio	Lower	Upper
91	100		
92	17.1	26.0	78.0#
134	0.0	14.1	42.4#

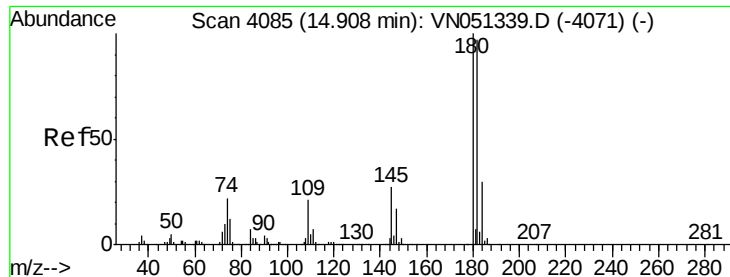


Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

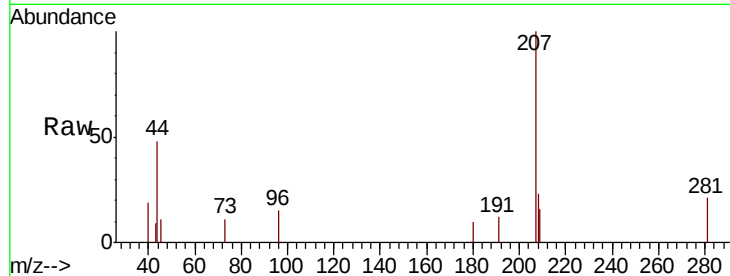
Ion 134.00 (133.70 to 134.70): V





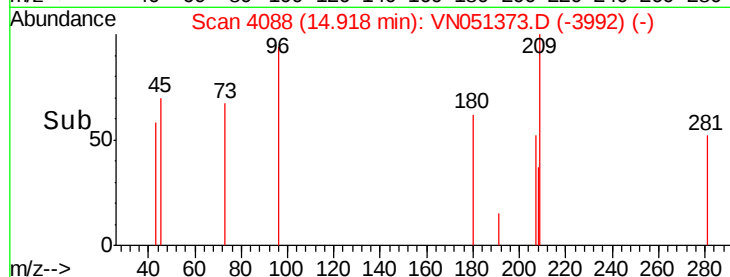
#93
 1,2,4-Trichlorobenzene
 Concen: 4.119 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.01 min
 Lab File: VN051373.D
 Acq: 21 Sep 2018 17:00

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.4	145.2#
145	0.0	13.7	41.1#

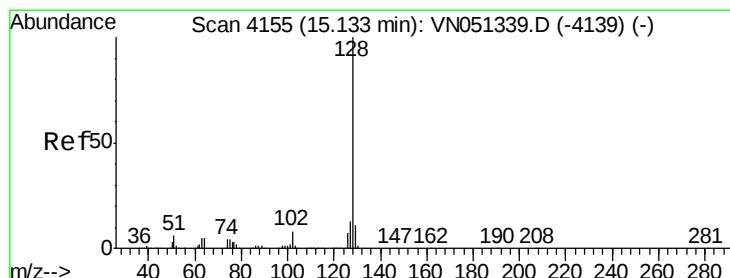


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

14.92

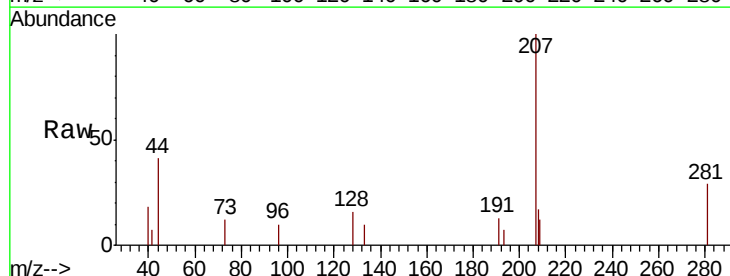


Time-->



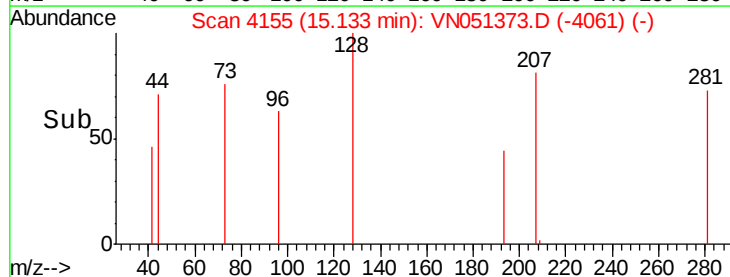
#95
 Naphthalene
 Concen: 5.359 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN051373.D
 Acq: 21 Sep 2018 17:00

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	8.6	13.0#

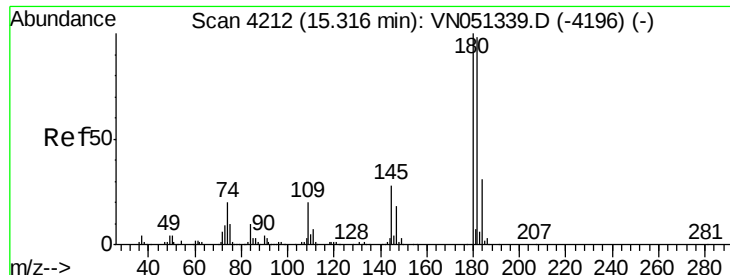


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

15.13

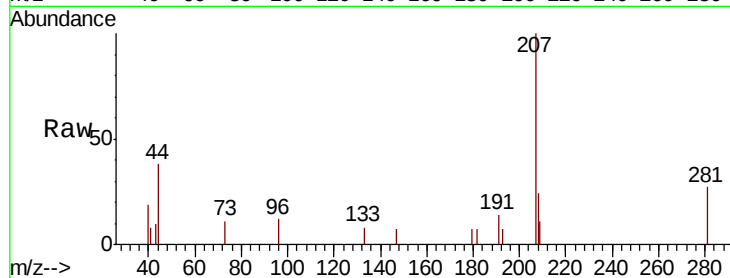


Time-->



#96
 1,2,3-Trichlorobenzene
 Concen: 3.254 ug/l
 RT: 15.33 min Scan# 4215
 Delta R.T. 0.01 min
 Lab File: VN051373.D
 Acq: 21 Sep 2018 17:00

Tot Ion	Ratio	Lower	Upper
180	100		
182	154.8	48.1	144.3#
145	0.0	14.3	42.9#



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

