

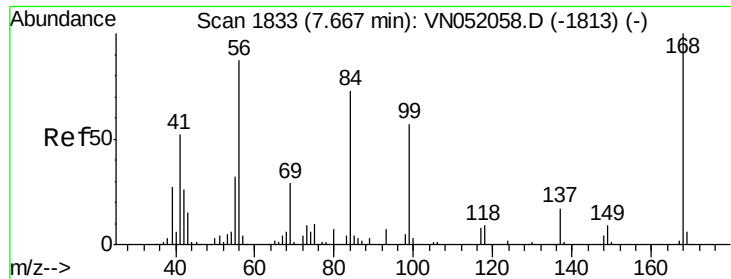
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110218\
 Data File : VN052135.D
 Acq On : 2 Nov 2018 17:58
 Operator : MD\SY
 Sample : J5741-58
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-14

Quant Time: Nov 02 23:15:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N103018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 02:45:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	268000	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	501844	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	477898	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	193047	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	231739	53.88	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.76%	
35) Dibromofluoromethane	7.60	113	191058	60.86	ug/l	0.00
Spiked Amount 50.000			Recovery	=	121.72%	
50) Toluene-d8	10.09	98	761104	60.66	ug/l	0.00
Spiked Amount 50.000			Recovery	=	121.32%	
62) 4-Bromofluorobenzene	12.40	95	249936	54.26	ug/l	0.00
Spiked Amount 50.000			Recovery	=	108.52%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.76	59	701	3.255	ug/l	100
13) Acrolein	3.68	56	65	24.309	ug/l #	72
16) Acetone	3.82	43	14981	16.320	ug/l	90
18) Methyl Acetate	4.34	43	3620	1.239	ug/l #	87
20) Methylene Chloride	4.56	84	25435	7.272	ug/l	95
25) 2-Butanone	6.85	43	3304	2.295	ug/l #	50
31) Cyclohexane	7.67	56	7289	Below Cal	#	20
36) 1,1-Dichloropropene	7.67	75	24098	4.723	ug/l #	52
38) Carbon Tetrachloride	7.67	117	28473	6.471	ug/l #	17
41) Methacrylonitrile	7.16	41	342	0.336	ug/l #	39
43) Isopropyl Acetate	8.17	43	170820	28.120	ug/l	99
48) Methyl methacrylate	9.18	41	4558	1.480	ug/l #	20
49) 1,4-Dioxane	9.26	88	30	26.193	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	2064	0.625	ug/l	99
54) cis-1,3-Dichloropropene	9.91	75	1402	0.244	ug/l #	32
59) 2-Hexanone	10.77	43	11665	4.958	ug/l #	60
71) Bromoform	12.39	173	1025	2.661	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	131487	37.208	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	131487	123.500	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.04	105	3128	0.234	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.22	75	143	1.165	ug/l #	11
95) Naphthalene	15.13	128	39296	7.104	ug/l	98

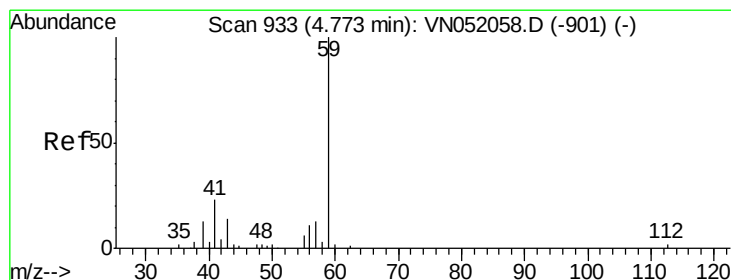
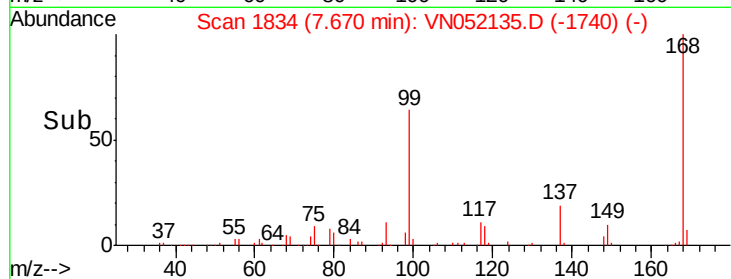
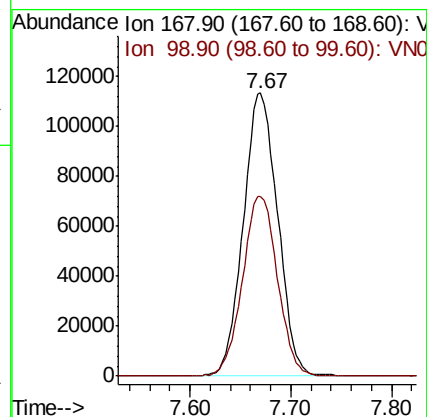
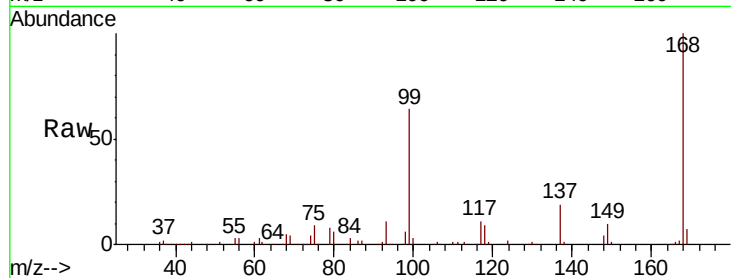
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. 0.00 min
Lab File: VN052135.D
Acq: 2 Nov 2018 17:58

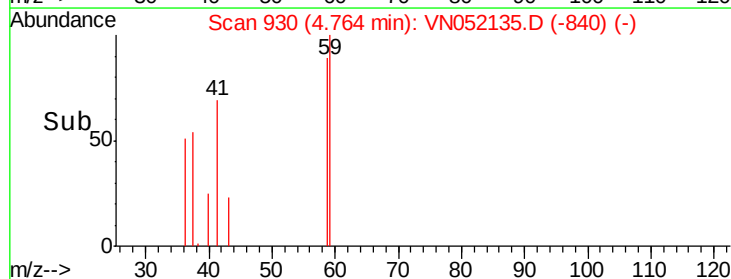
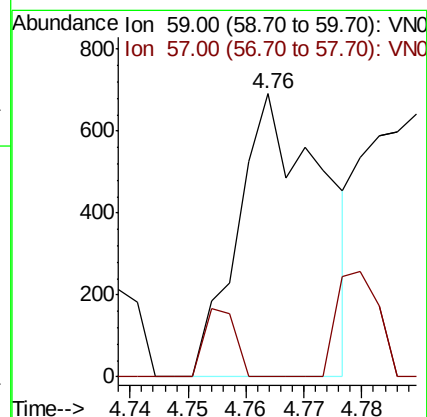
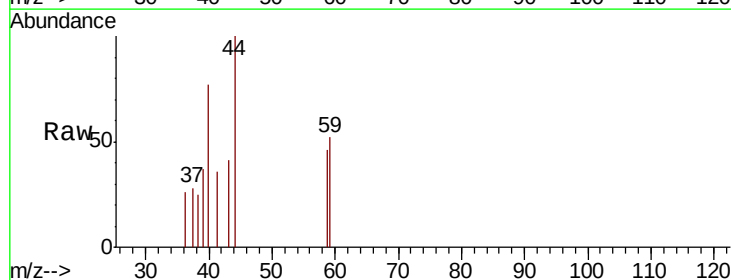
Instrument :
MSVOA_N
ClientSampled :
TP-14

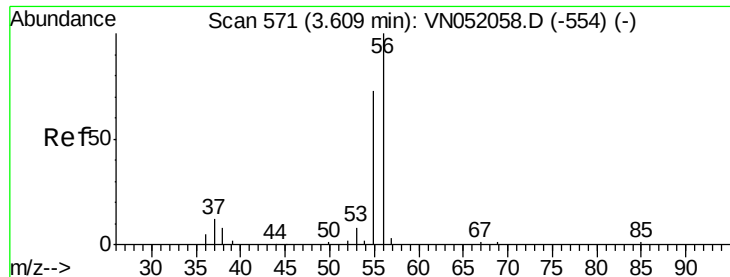
Tot Ion:168 Resp: 268000
Ion Ratio Lower Upper
168 100
99 63.7 56.6 85.0



#11
Tert butyl alcohol
Concen: 3.255 ug/l
RT: 4.76 min Scan# 930
Delta R.T. -0.01 min
Lab File: VN052135.D
Acq: 2 Nov 2018 17:58

Tgt Ion: 59 Resp: 701
Ion Ratio Lower Upper
59 100
57 8.8 7.0 10.6





#13

Acrolein

Concen: 24.309 ug/l

RT: 3.68 min Scan# 594

Delta R.T. 0.07 min

Lab File: VN052135.D

Acq: 2 Nov 2018 17:58

Instrument :

MSVOA_N

ClientSampled :

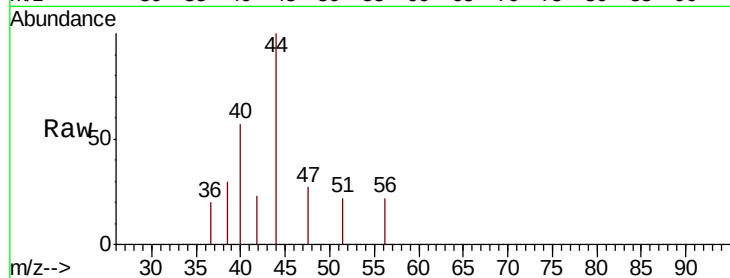
TP-14

Tot Ion: 56 Resp: 65

Ion Ratio Lower Upper

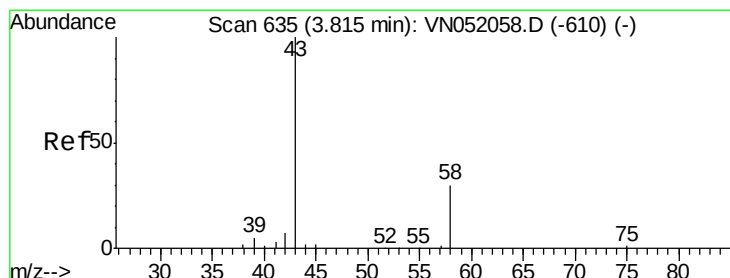
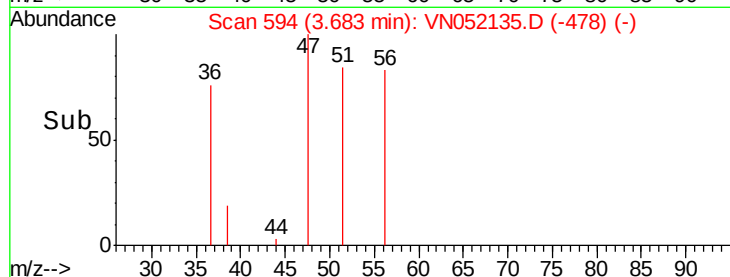
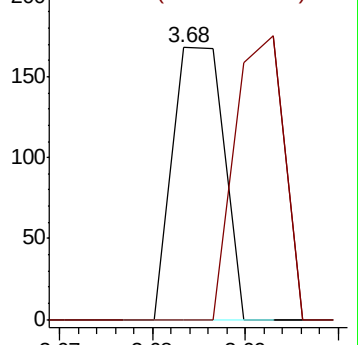
56 100

55 98.5 59.9 89.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 16.320 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052135.D

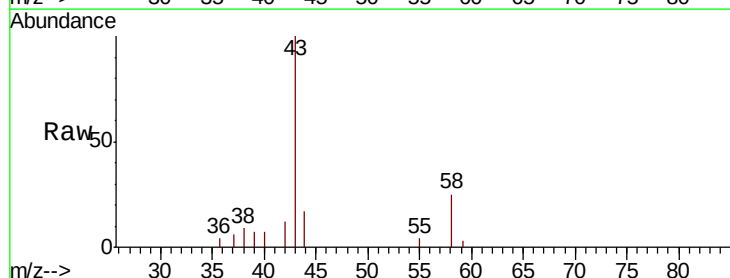
Acq: 2 Nov 2018 17:58

Tgt Ion: 43 Resp: 14981

Ion Ratio Lower Upper

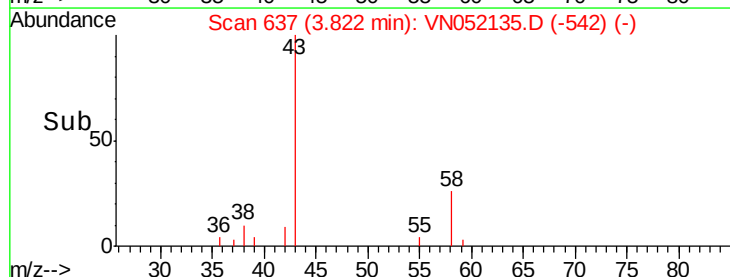
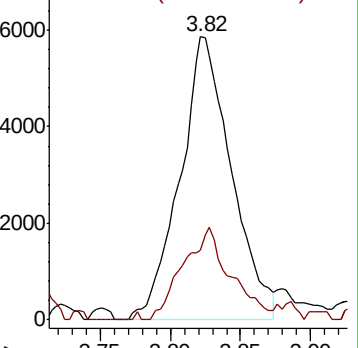
43 100

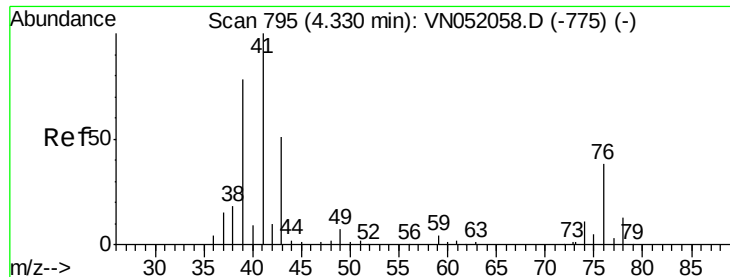
58 24.8 24.2 36.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

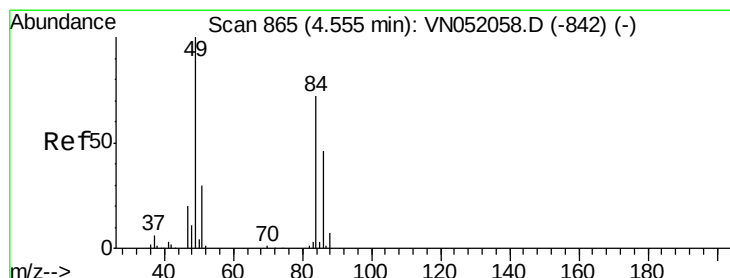
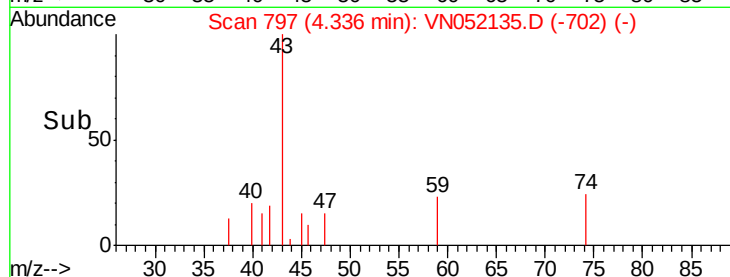
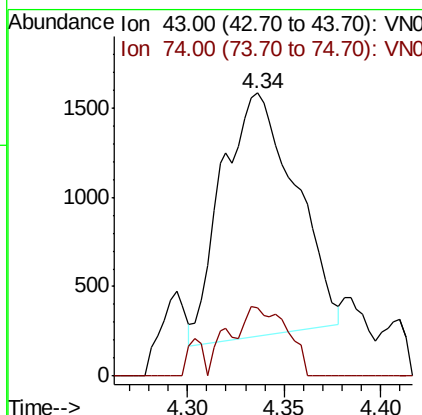
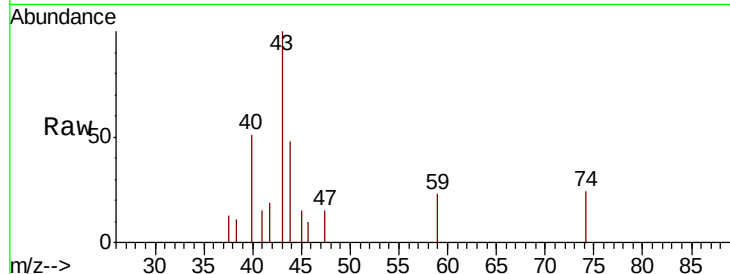




#18
Methyl Acetate
Concen: 1.239 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN052135.D
Acq: 2 Nov 2018 17:58

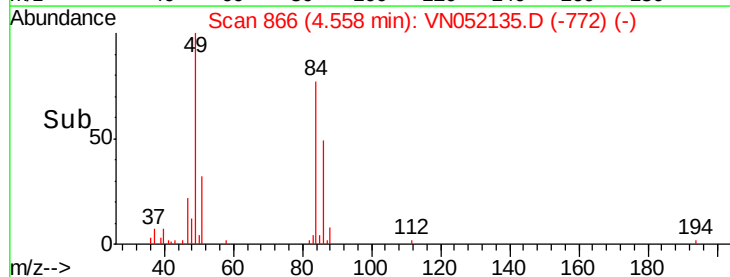
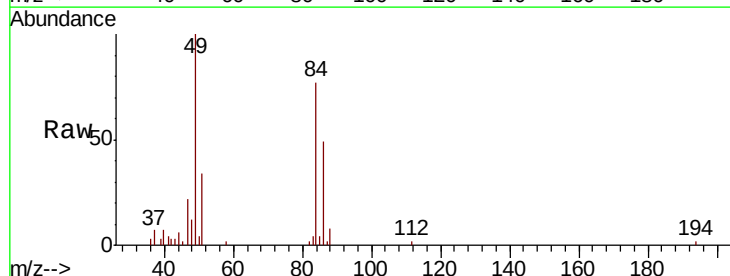
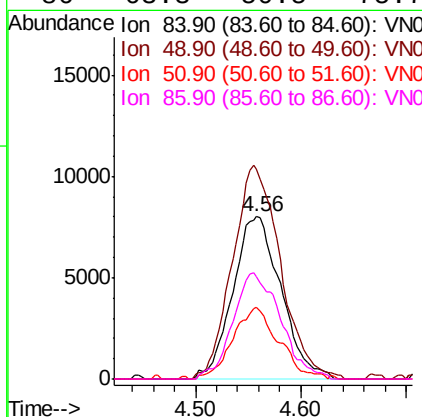
Instrument :
MSVOA_N
ClientSampled :
TP-14

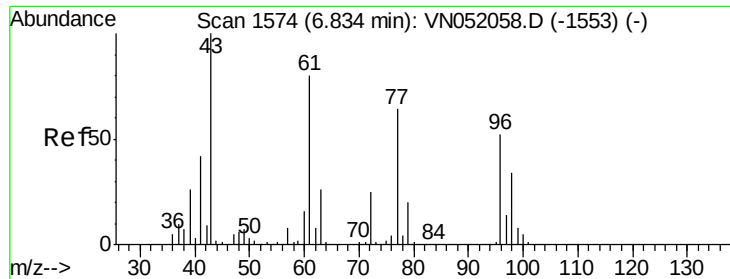
Tot Ion: 43 Resp: 3620
Ion Ratio Lower Upper
43 100
74 16.2 17.9 26.9#



#20
Methylene Chloride
Concen: 7.272 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052135.D
Acq: 2 Nov 2018 17:58

Tgt Ion: 84 Resp: 25435
Ion Ratio Lower Upper
84 100
49 129.0 110.6 165.8
51 44.0 33.7 50.5
86 63.3 50.5 75.7





#25

2-Butanone

Concen: 2.295 ug/l

RT: 6.85 min Scan# 1579

Delta R.T. 0.02 min

Lab File: VN052135.D

Acq: 2 Nov 2018 17:58

Instrument :

MSVOA_N

ClientSampled :

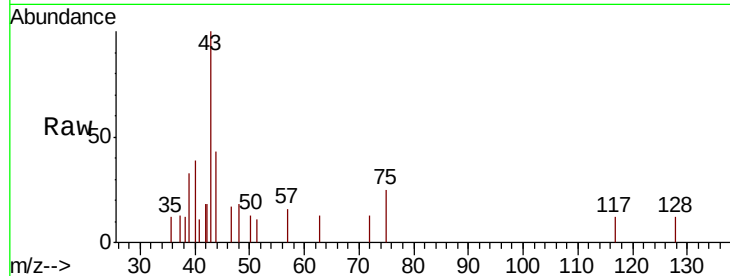
TP-14

Tot Ion: 43 Resp: 3304

Ion Ratio Lower Upper

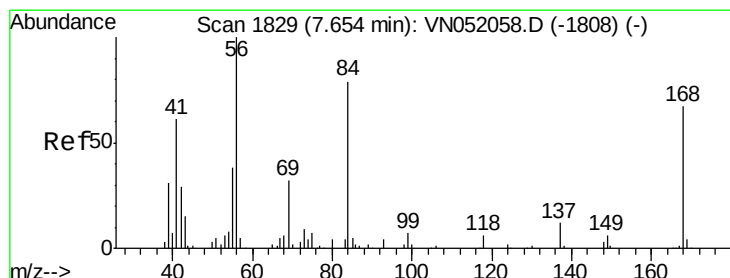
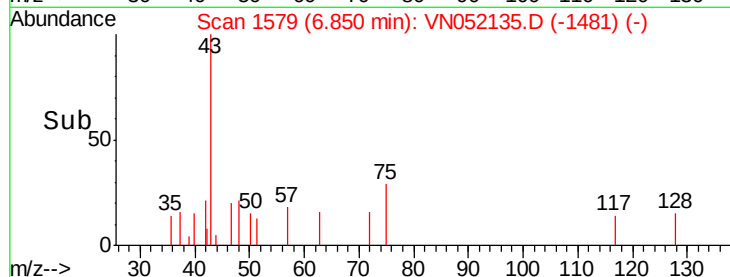
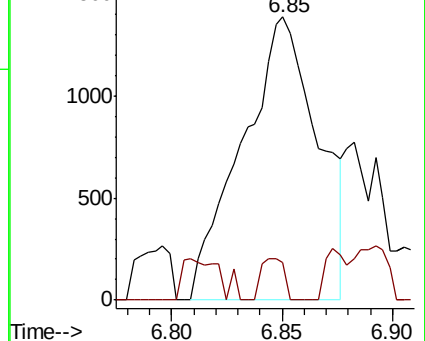
43 100

72 0.0 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN052135.D

Acq: 2 Nov 2018 17:58

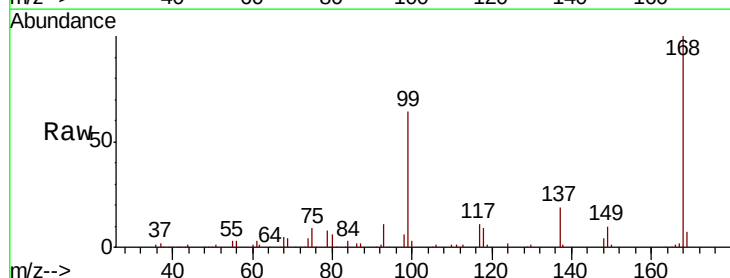
Tgt Ion: 56 Resp: 7289

Ion Ratio Lower Upper

56 100

69 143.2 25.8 38.6#

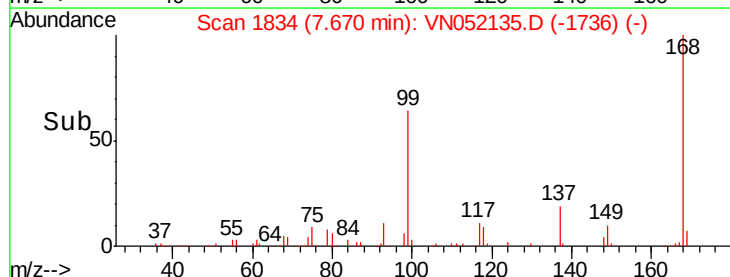
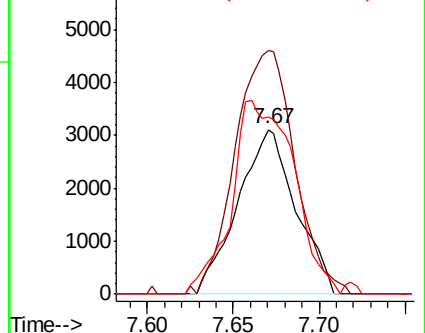
84 107.7 63.5 95.3#

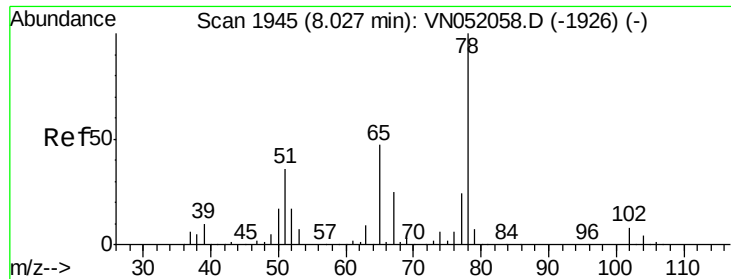


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

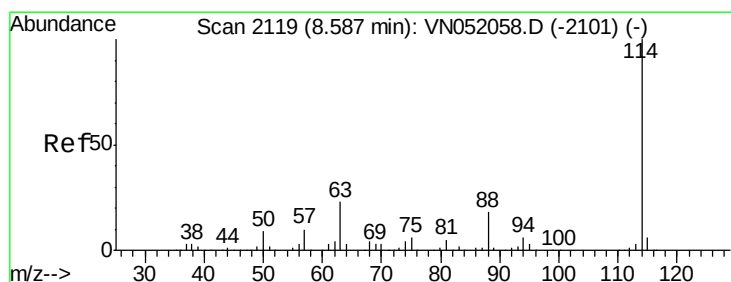
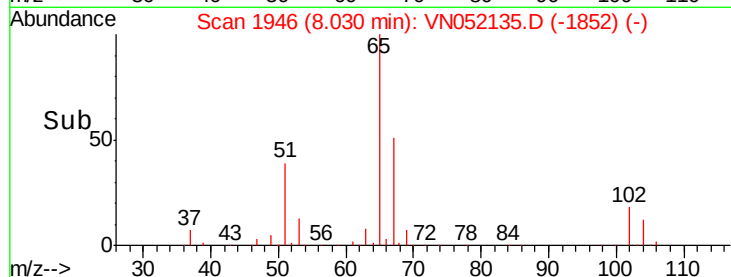
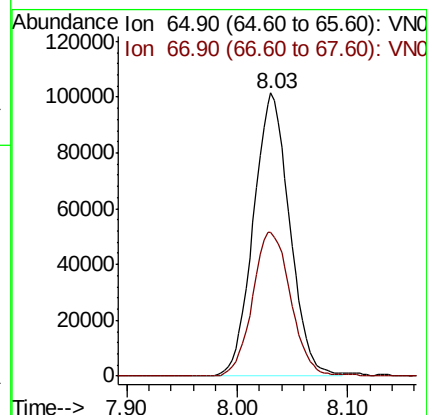
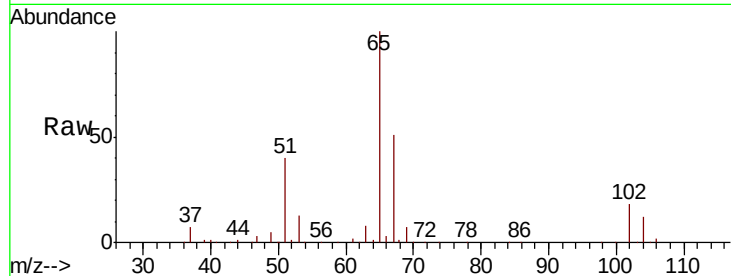




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN052135.D
 Acq: 2 Nov 2018 17:58

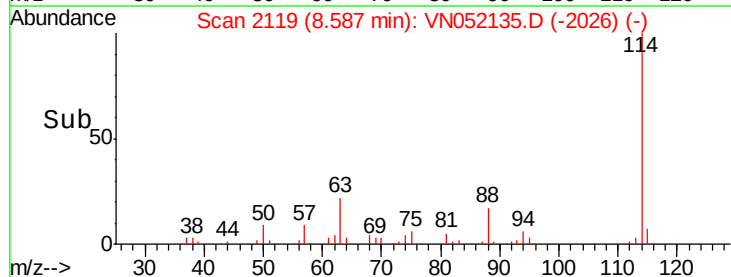
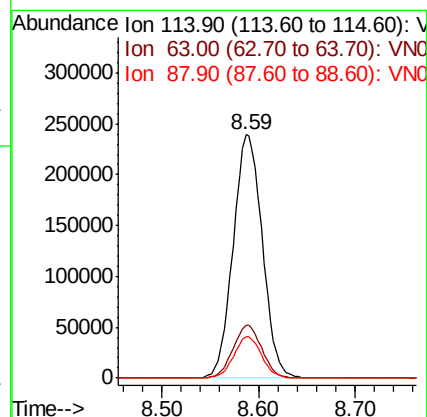
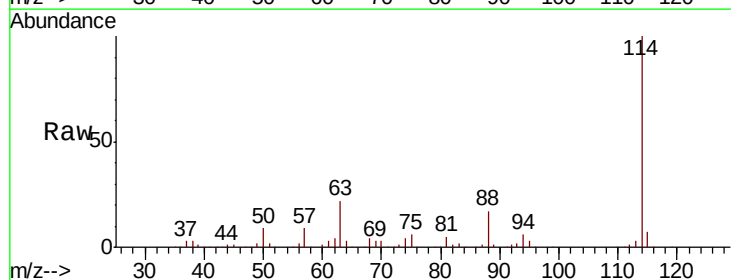
Instrument :
 MSVOA_N
 ClientSampled :
 TP-14

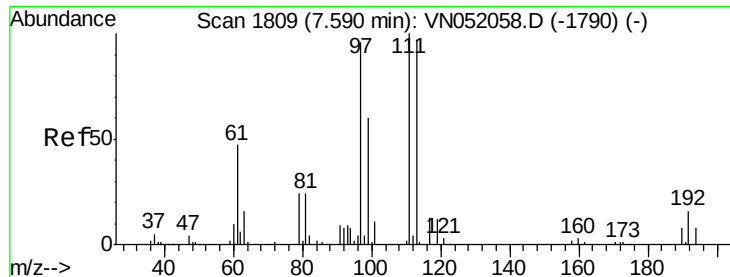
Tot Ion: 65 Resp: 231739
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052135.D
 Acq: 2 Nov 2018 17:58

Tgt Ion: 114 Resp: 501844
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 46.0
 88 17.1 0.0 35.4

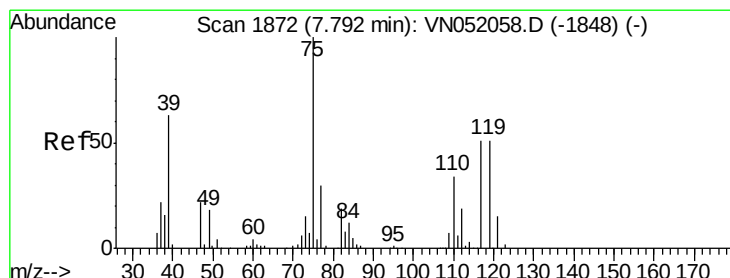
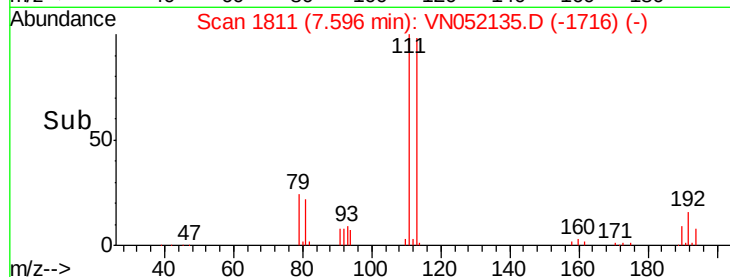
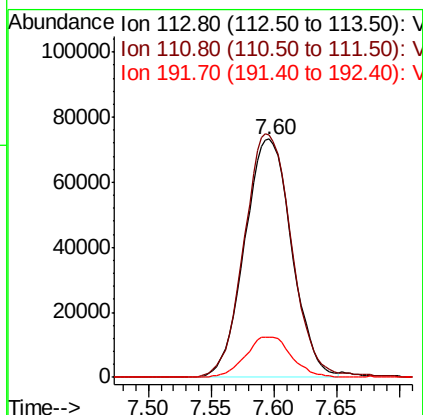
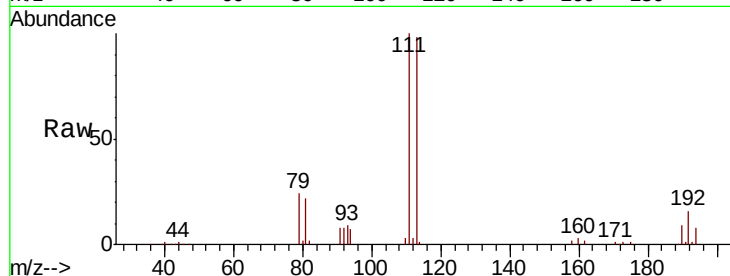




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.60 min Scan# 1811
 Delta R.T. 0.01 min
 Lab File: VN052135.D
 Acq: 2 Nov 2018 17:58

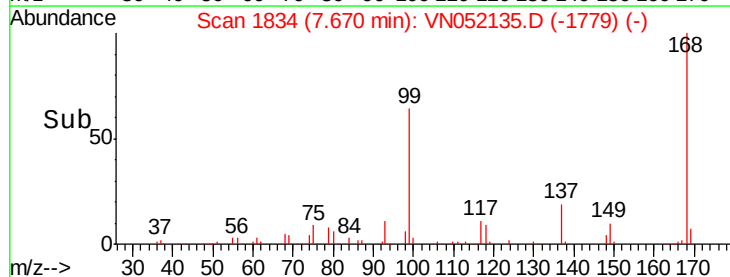
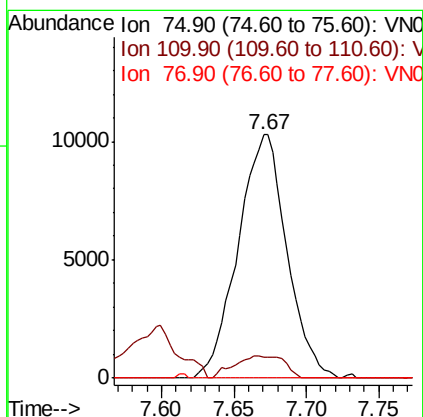
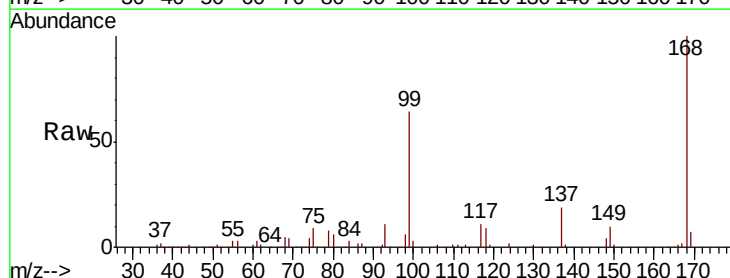
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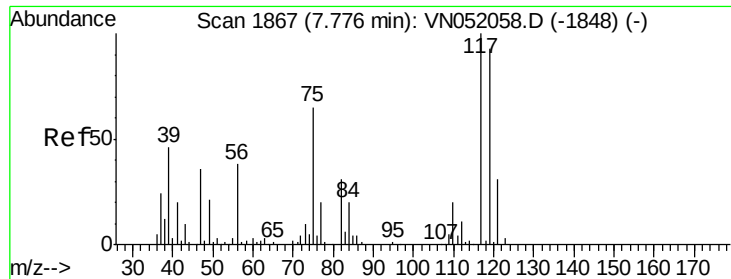
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.9	83.1	124.7
192	16.6	12.7	19.1



#36
 1,1-Dichloropropene
 Concen: 4.723 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN052135.D
 Acq: 2 Nov 2018 17:58

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	16.0	48.0#
77	0.0	24.5	36.7#

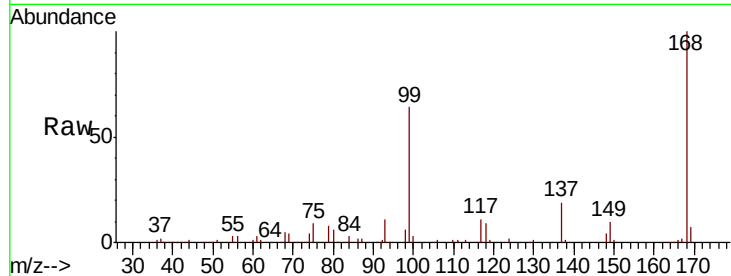




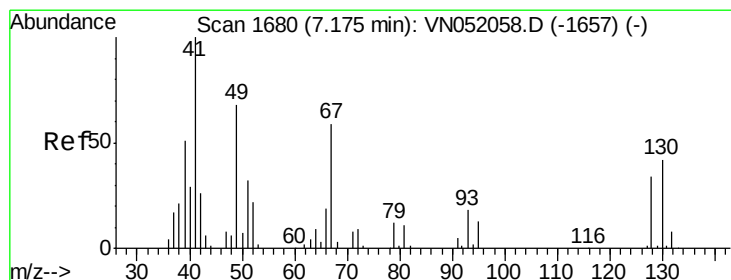
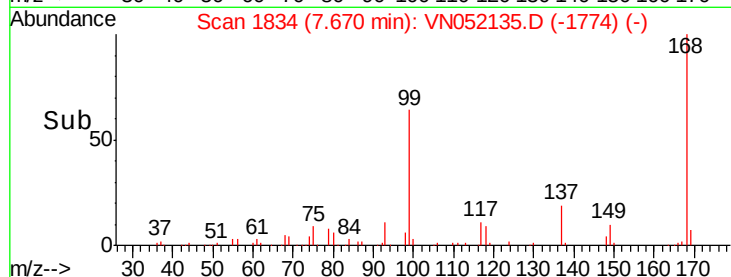
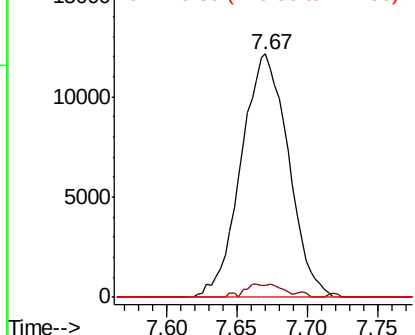
#38
Carbon Tetrachloride
Concen: 6.471 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. -0.11 min
Lab File: VN052135.D
Acq: 2 Nov 2018 17:58

Instrument :
MSVOA_N
ClientSampled :
TP-14

Tot Ion:117 Resp: 28473
Ion Ratio Lower Upper
117 100
119 5.1 74.8 112.2#
121 0.0 25.1 37.7#

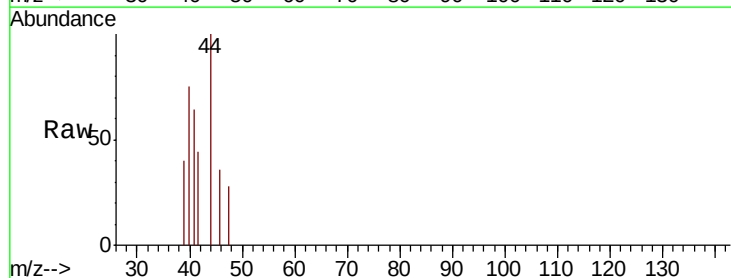


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

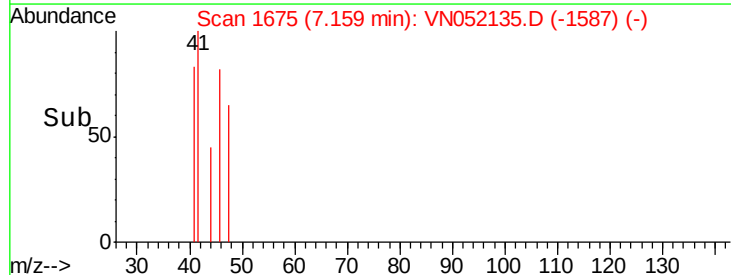
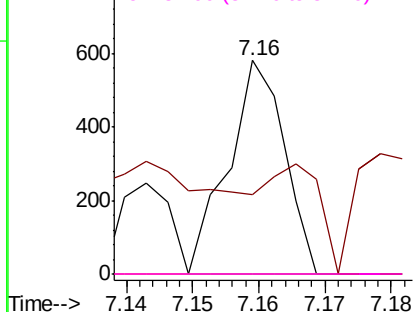


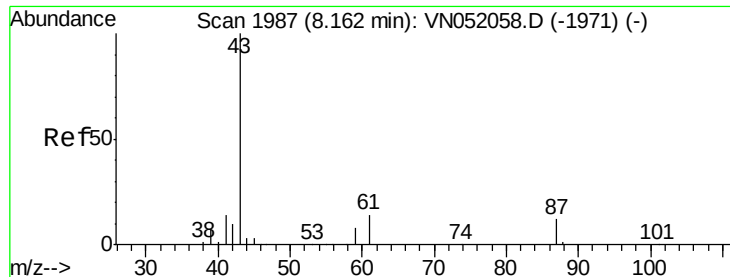
#41
Methacrylonitrile
Concen: 0.336 ug/l
RT: 7.16 min Scan# 1675
Delta R.T. -0.02 min
Lab File: VN052135.D
Acq: 2 Nov 2018 17:58

Tgt Ion: 41 Resp: 342
Ion Ratio Lower Upper
41 100
39 46.5 33.2 49.8
67 0.0 63.5 95.3#
52 0.0 25.6 38.4#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 28.120 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052135.D

Acq: 2 Nov 2018 17:58

Instrument :

MSVOA_N

ClientSampleId :

TP-14

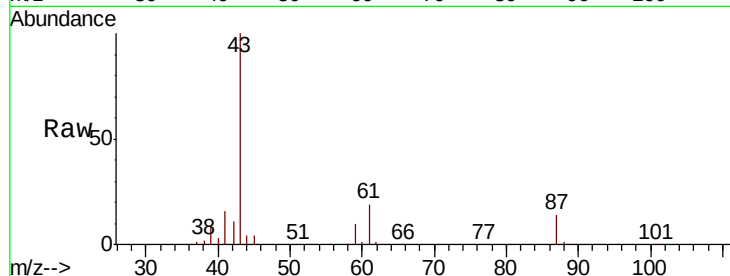
Tot Ion: 43 Resp: 170820

Ion Ratio Lower Upper

43 100

61 18.4 15.4 23.0

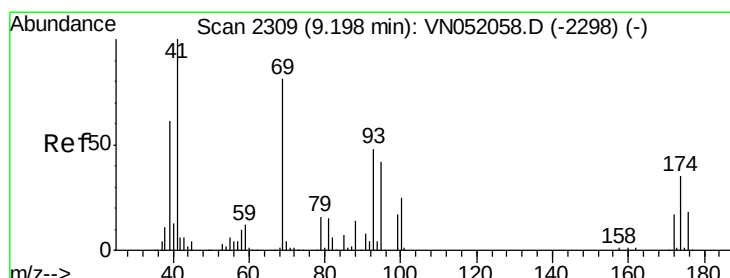
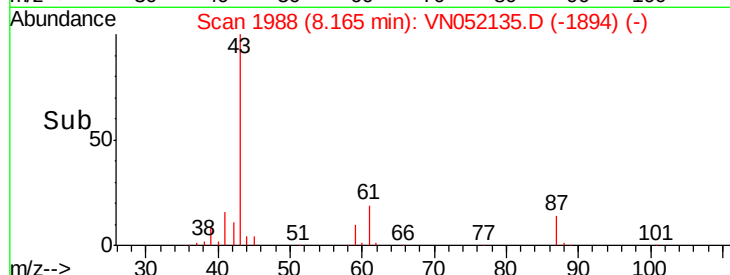
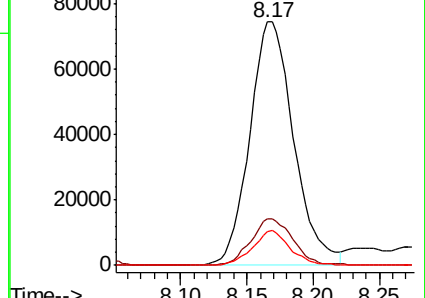
87 12.1 9.8 14.8



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: 1.480 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN052135.D

Acq: 2 Nov 2018 17:58

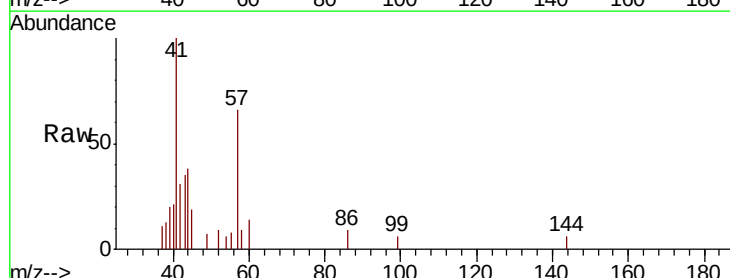
Tgt Ion: 41 Resp: 4558

Ion Ratio Lower Upper

41 100

69 0.0 67.1 100.7#

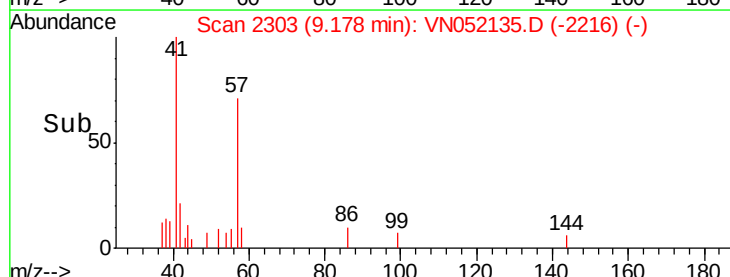
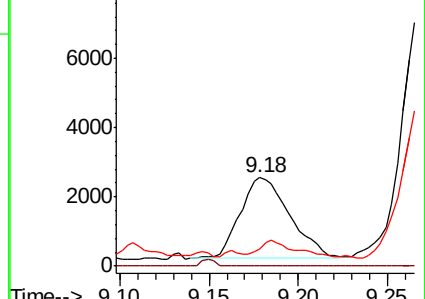
39 14.3 50.5 75.7#

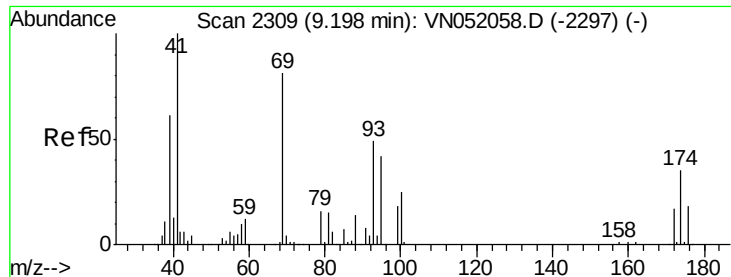


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 26.193 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.06 min

Lab File: VN052135.D

Acq: 2 Nov 2018 17:58

Instrument :

MSVOA_N

ClientSampleId :

TP-14

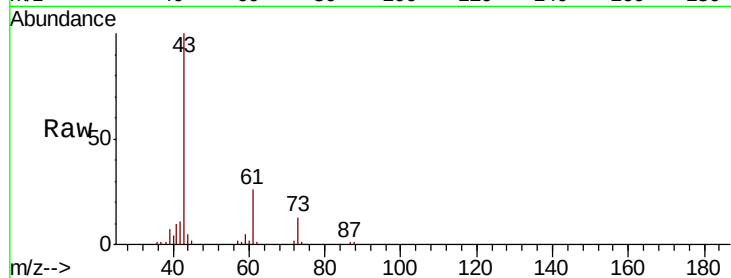
Tot Ion: 88 Resp: 30

Ion Ratio Lower Upper

88 100

43 458903.3 34.1 51.1#

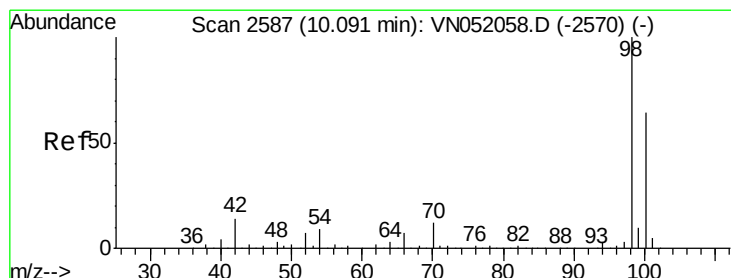
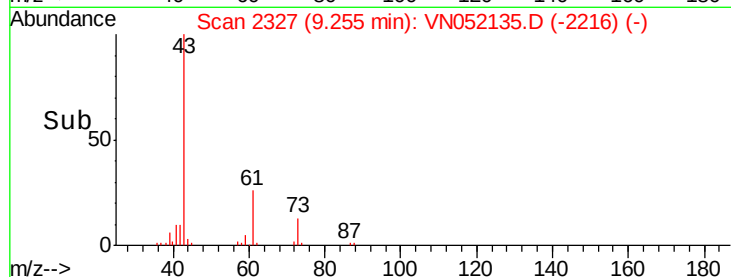
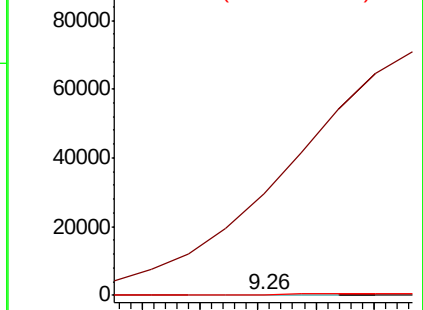
58 2716.7 62.8 94.2#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 26.193 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052135.D

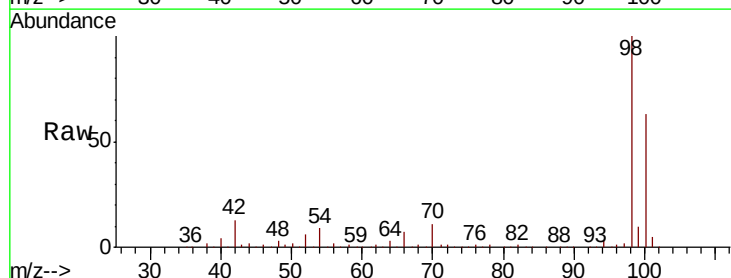
Acq: 2 Nov 2018 17:58

Tgt Ion: 98 Resp: 761104

Ion Ratio Lower Upper

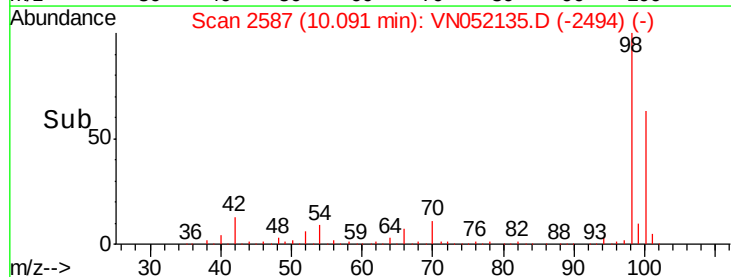
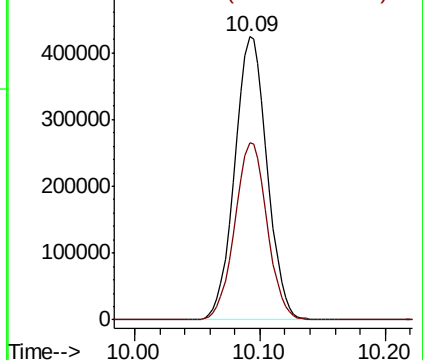
98 100

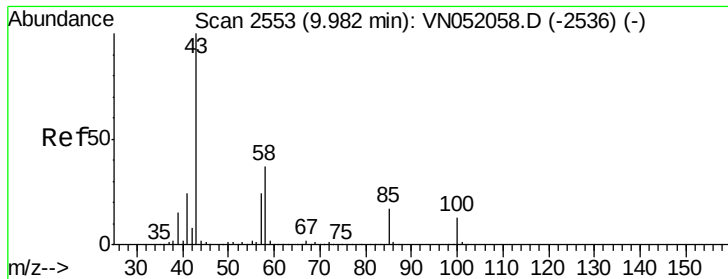
100 62.4 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.625 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.01 min

Lab File: VN052135.D

Acq: 2 Nov 2018 17:58

Instrument :

MSVOA_N

ClientSampled :

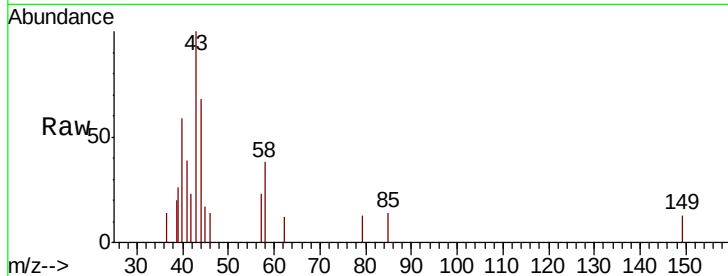
TP-14

Tot Ion: 43 Resp: 2064

Ion Ratio Lower Upper

43 100

58 37.7 29.7 44.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

2000

1500

1000

500

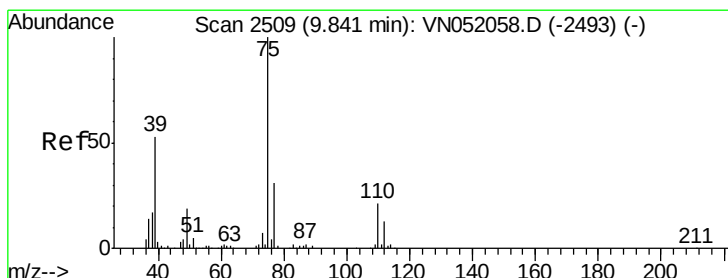
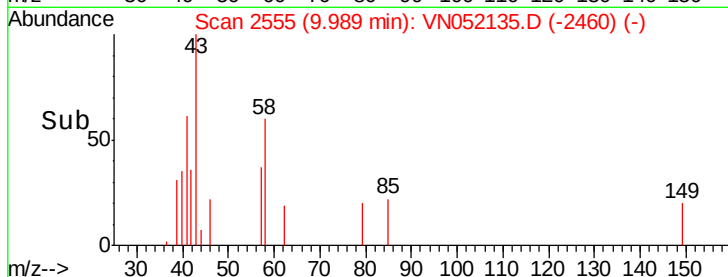
0

9.95

9.99

10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 0.244 ug/l

RT: 9.91 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN052135.D

Acq: 2 Nov 2018 17:58

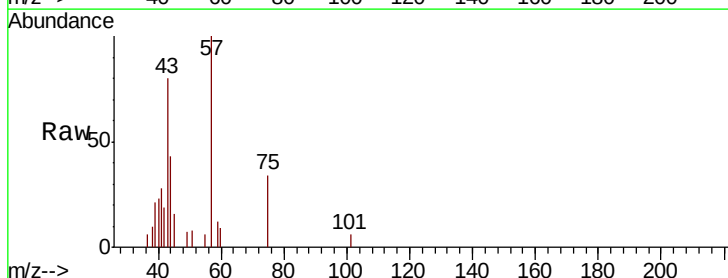
Tgt Ion: 75 Resp: 1402

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#

39 0.0 42.3 63.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

1000

800

600

400

200

0

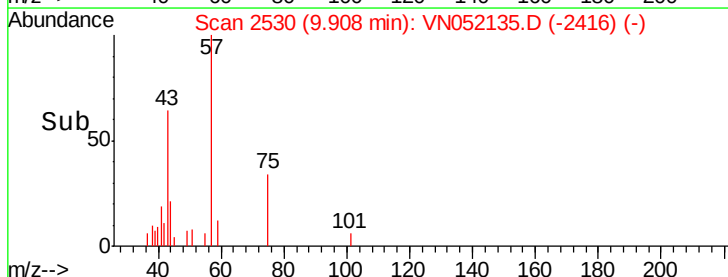
9.85

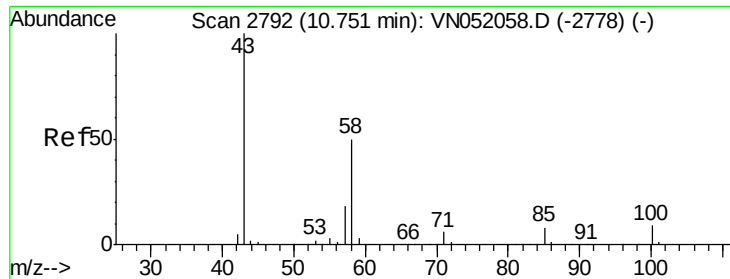
9.90

9.91

9.95

Time-->





#59

2-Hexanone

Concen: 4.958 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN052135.D

Acq: 2 Nov 2018 17:58

Instrument :

MSVOA_N

ClientSampled :

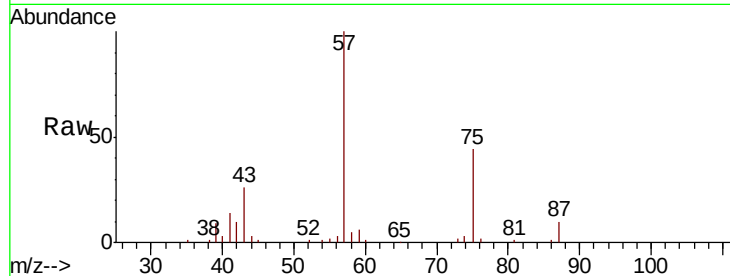
TP-14

Tot Ion: 43 Resp: 11665

Ion Ratio Lower Upper

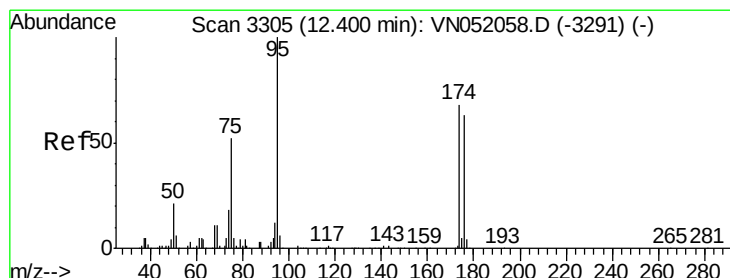
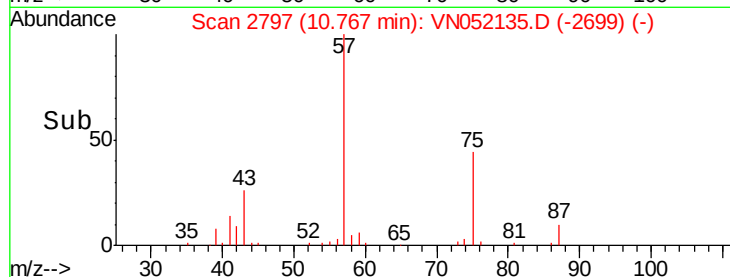
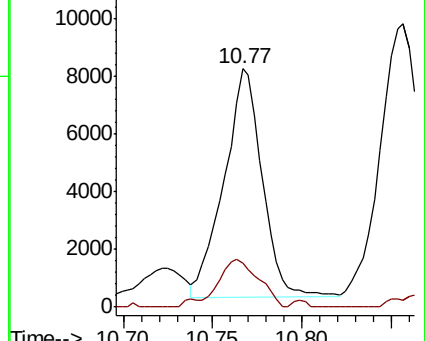
43 100

58 23.1 25.2 75.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052135.D

Acq: 2 Nov 2018 17:58

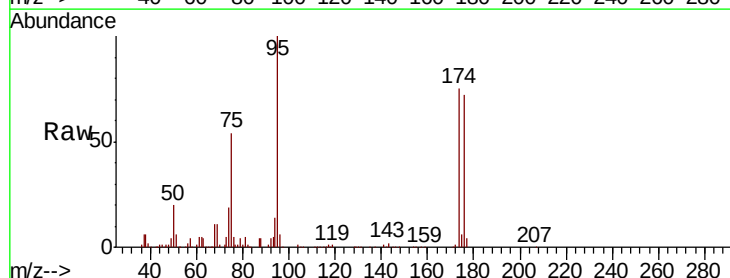
Tgt Ion: 95 Resp: 249936

Ion Ratio Lower Upper

95 100

174 73.6 0.0 131.8

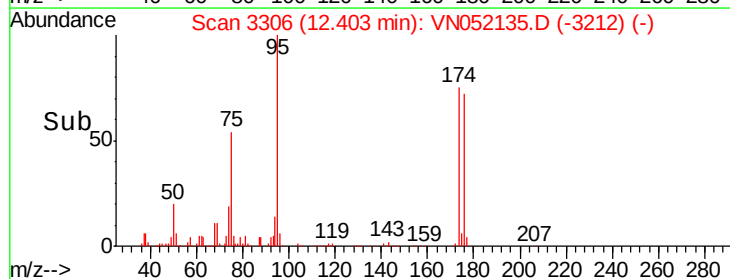
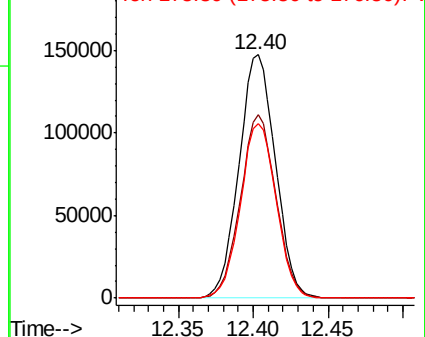
176 70.5 0.0 126.0

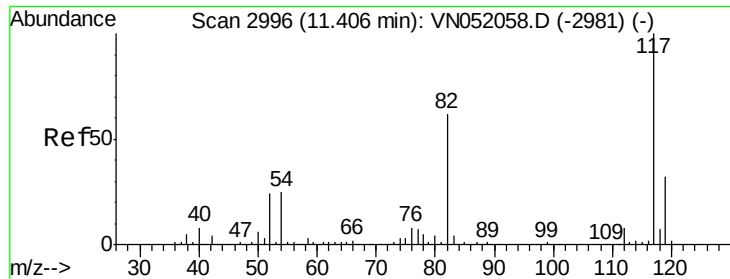


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN052135.D

Acq: 2 Nov 2018 17:58

Instrument :

MSVOA_N

ClientSampleId :

TP-14

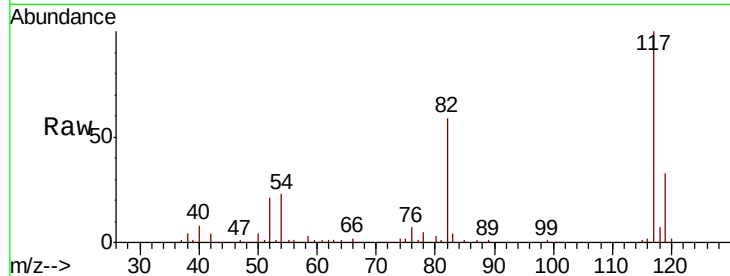
Tot Ion:117 Resp: 477898

Ion Ratio Lower Upper

117 100

82 58.5 49.9 74.9

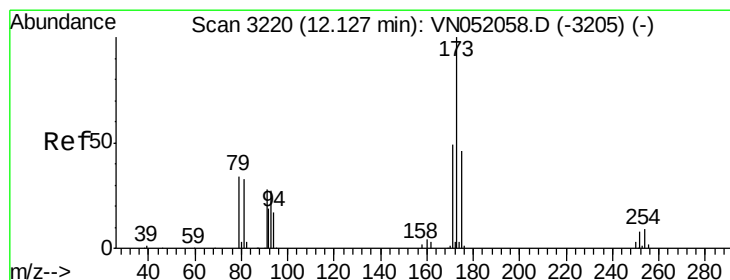
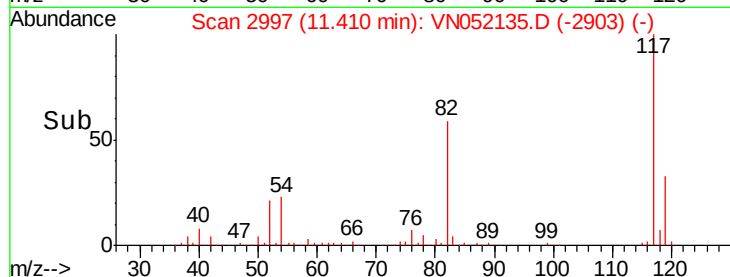
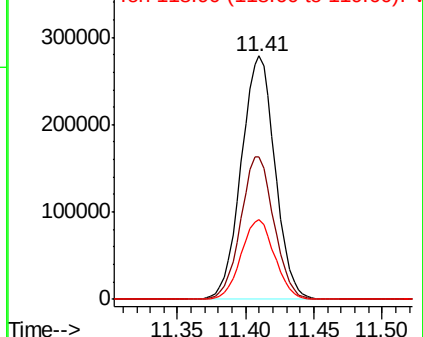
119 32.7 25.7 38.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 2.661 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN052135.D

Acq: 2 Nov 2018 17:58

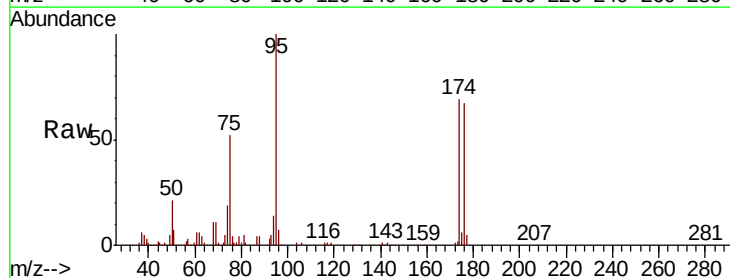
Tgt Ion:173 Resp: 1025

Ion Ratio Lower Upper

173 100

175 1193.4 23.9 71.7#

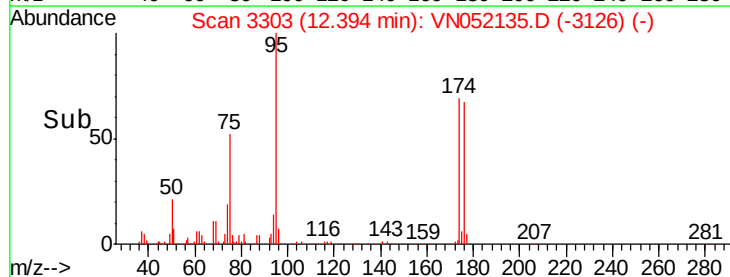
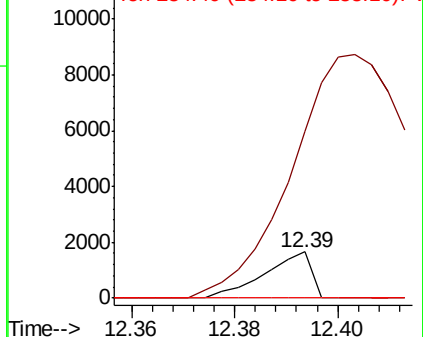
254 0.0 0.0 0.0

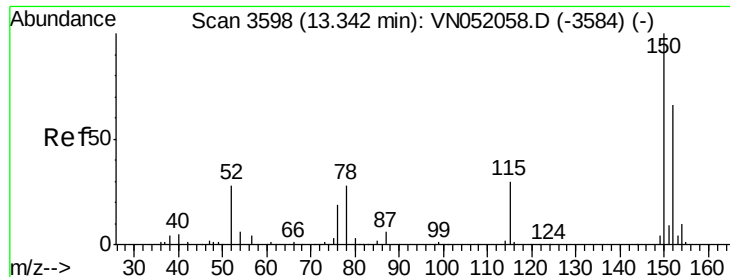


Abundance Ion 172.70 (172.40 to 173.40): V

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# 3599

Delta R.T. 0.00 min

Lab File: VN052135.D

Acq: 2 Nov 2018 17:58

Instrument :

MSVOA_N

ClientSampled :

TP-14

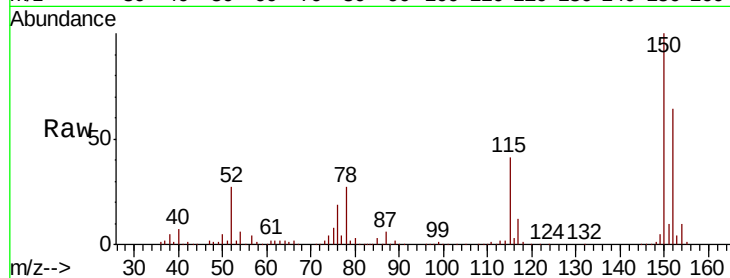
Tot Ion:152 Resp: 193047

Ion Ratio Lower Upper

152 100

115 63.8 31.6 95.0

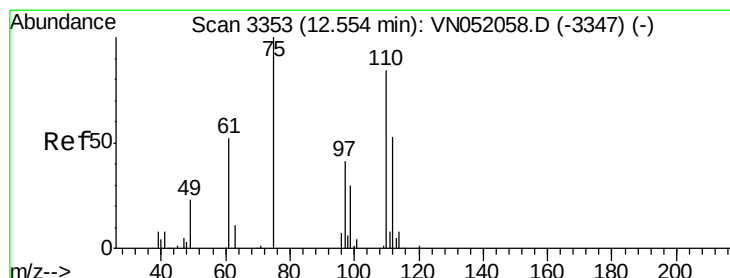
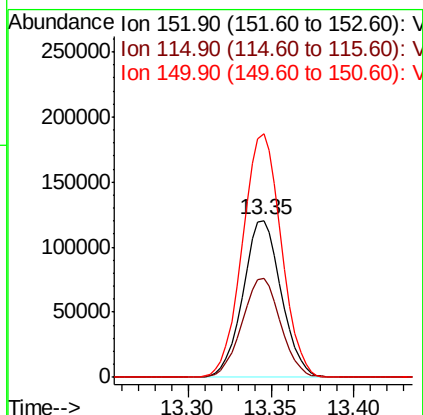
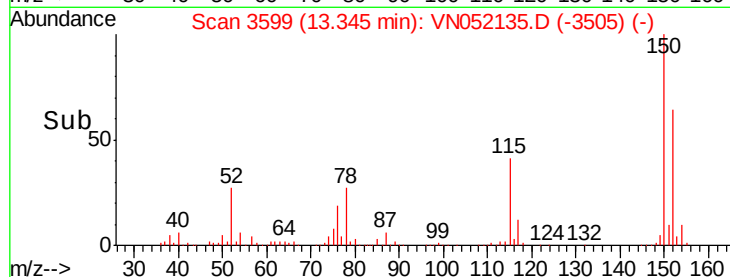
150 157.8 0.0 345.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 37.208 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052135.D

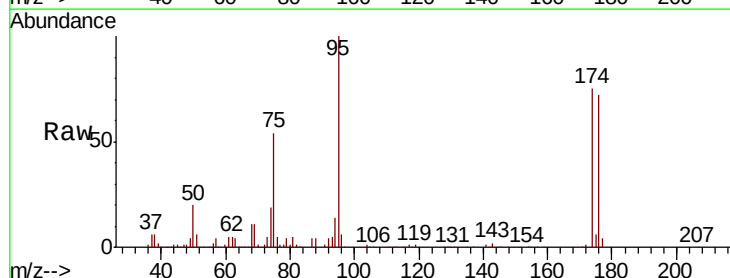
Acq: 2 Nov 2018 17:58

Tgt Ion: 75 Resp: 131487

Ion Ratio Lower Upper

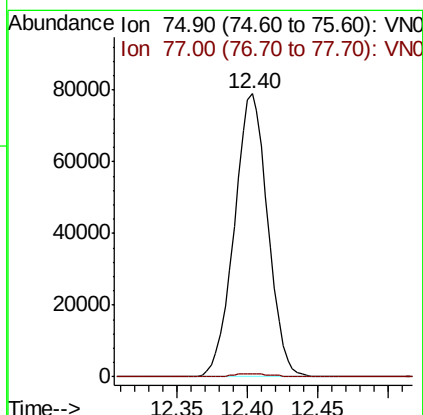
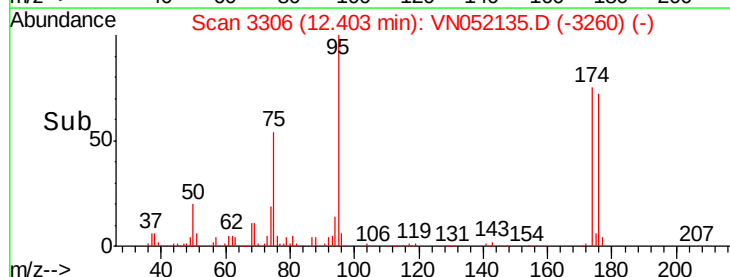
75 100

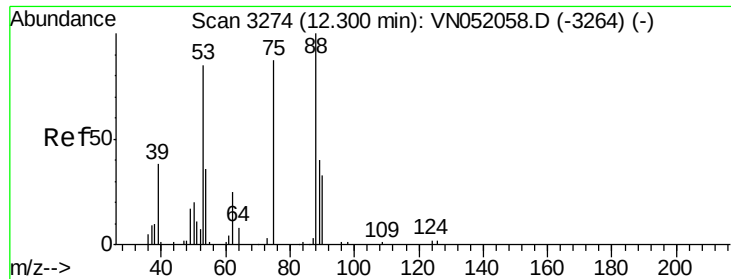
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 123.500 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052135.D

Acq: 2 Nov 2018 17:58

Instrument :

MSVOA_N

ClientSampled :

TP-14

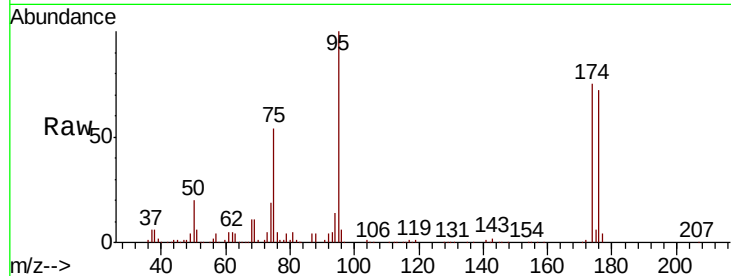
Tot Ion: 75 Resp: 131487

Ion Ratio Lower Upper

75 100

53 0.1 81.8 122.6#

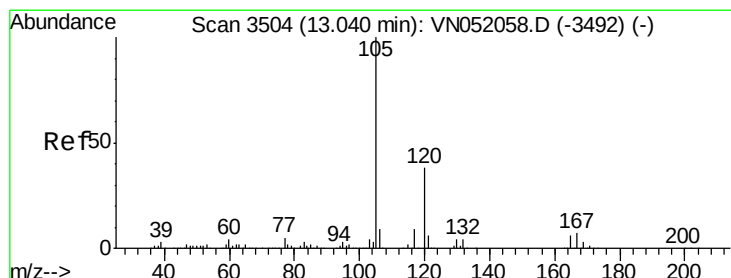
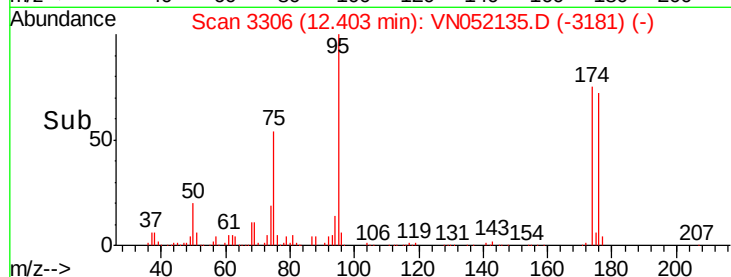
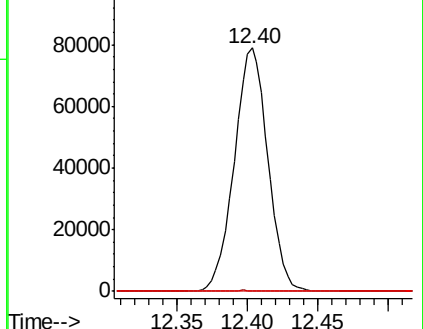
89 0.0 36.6 54.8#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.234 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN052135.D

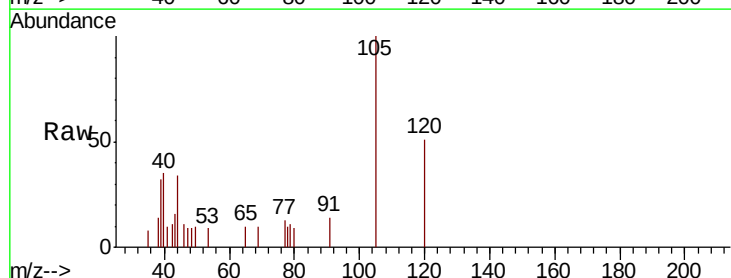
Acq: 2 Nov 2018 17:58

Tgt Ion:105 Resp: 3128

Ion Ratio Lower Upper

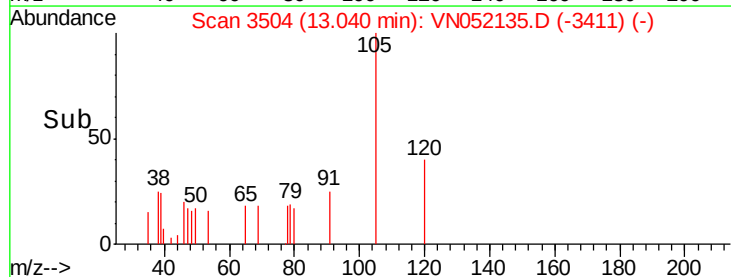
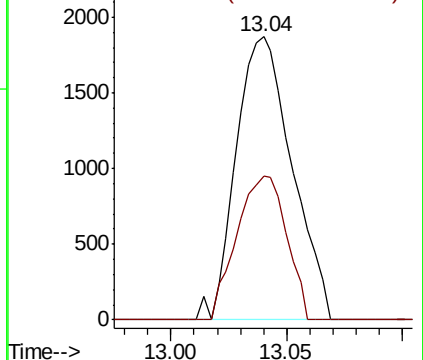
105 100

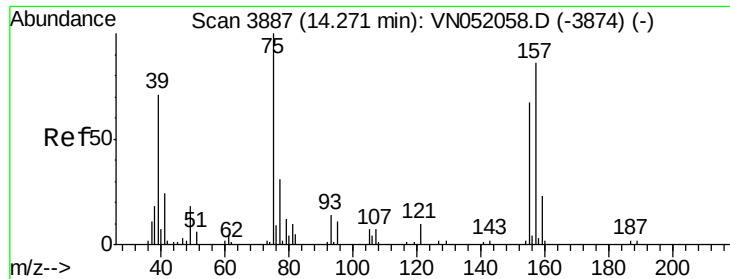
120 45.3 21.9 65.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.165 ug/l

RT: 14.22 min Scan# 3870

Delta R.T. -0.05 min

Lab File: VN052135.D

Acq: 2 Nov 2018 17:58

Instrument :

MSVOA_N

ClientSampled :

TP-14

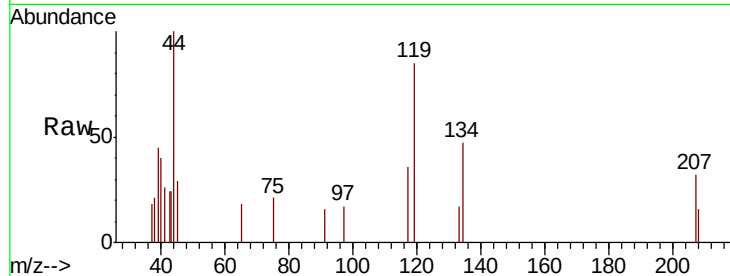
Tot Ion: 75 Resp: 143

Ion Ratio Lower Upper

75 100

155 0.0 34.0 102.0#

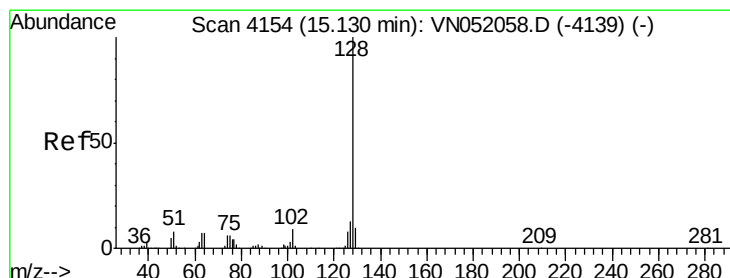
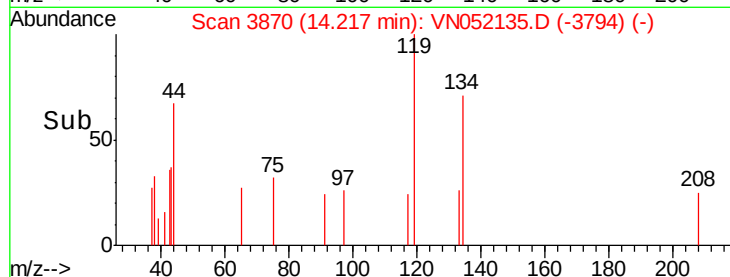
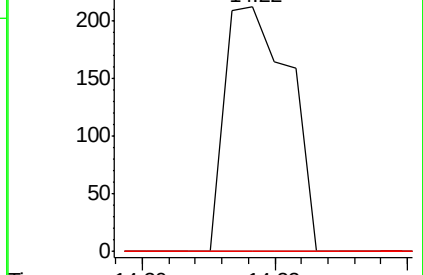
157 0.0 42.1 126.4#



Abundance Ion 74.90 (74.60 to 75.60): VN052058.D (-3874) (-)

Ion 154.80 (154.50 to 155.50): VN052058.D (-3874) (-)

Ion 156.80 (156.50 to 157.50): VN052058.D (-3874) (-)



#95

Naphthalene

Concen: 7.104 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN052135.D

Acq: 2 Nov 2018 17:58

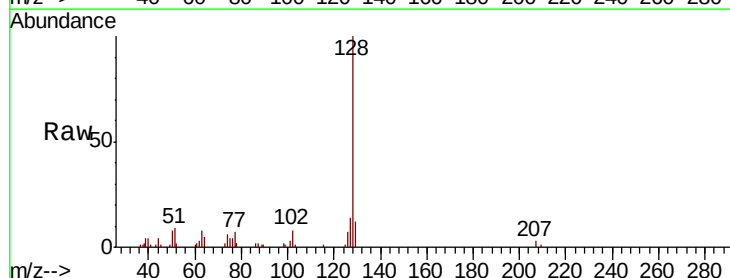
Tgt Ion: 128 Resp: 39296

Ion Ratio Lower Upper

128 100

127 13.6 10.5 15.7

129 12.1 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): VN052058.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN052058.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN052058.D (-4139) (-)

