

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN103118\
 Data File : VN052081.D
 Acq On : 31 Oct 2018 18:32
 Operator : MD\SY
 Sample : J5205-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 01 01:43:56 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	282276	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	528377	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	502941	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	200305	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	248824	54.93	ug/l	0.00
Spiked Amount			Recovery	=	109.86%	
35) Dibromofluoromethane	7.59	113	205392	62.14	ug/l	0.00
Spiked Amount			Recovery	=	124.28%	
50) Toluene-d8	10.09	98	791065	59.88	ug/l	0.00
Spiked Amount			Recovery	=	119.76%	
62) 4-Bromofluorobenzene	12.40	95	273008	56.29	ug/l	0.00
Spiked Amount			Recovery	=	112.58%	

Target Compounds

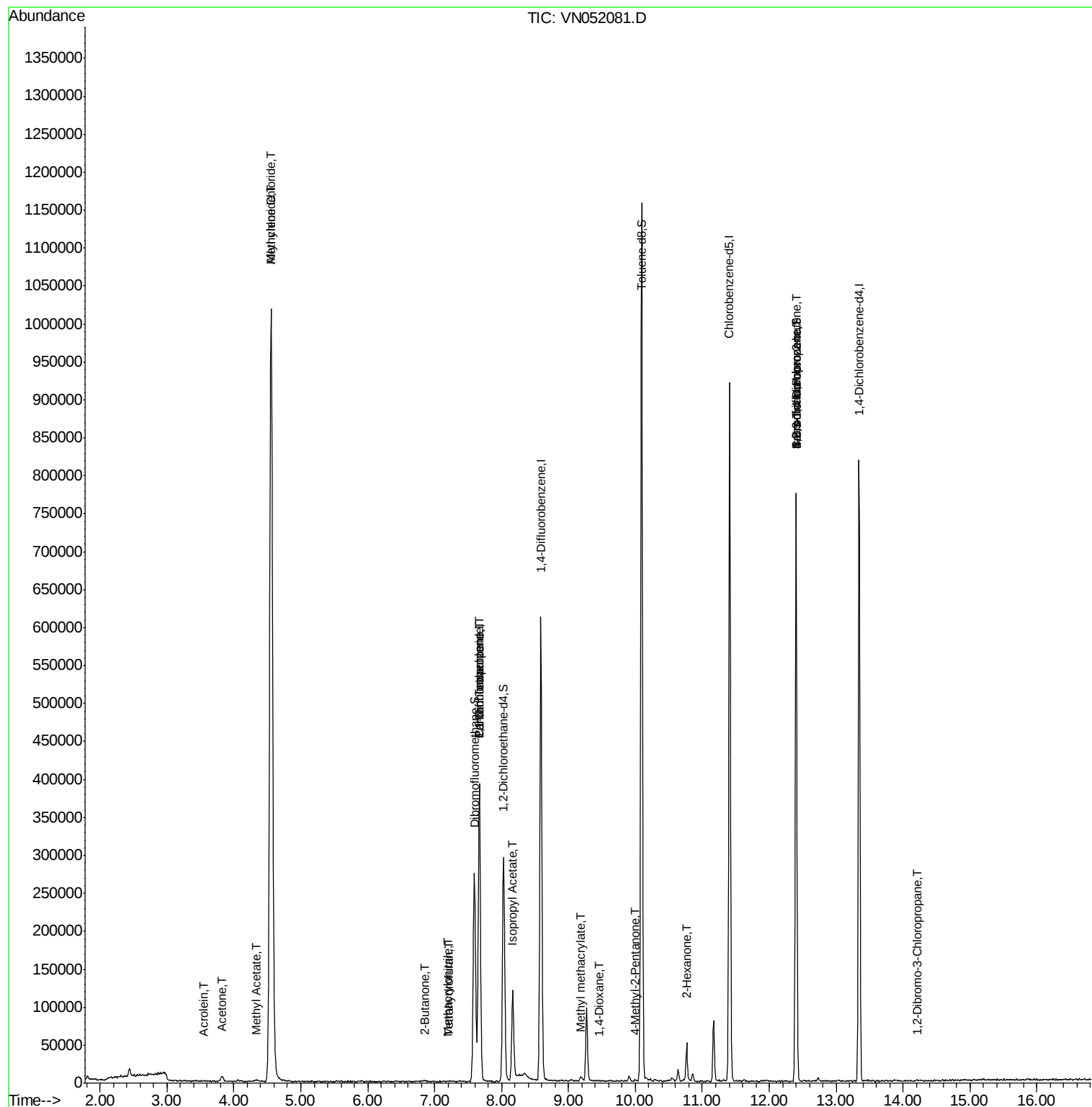
						Qvalue
13) Acrolein	3.54	56	65	24.295	ug/l #	1
14) Allyl chloride	4.55	41	29864	5.039	ug/l #	24
16) Acetone	3.82	43	11123	11.504	ug/l #	84
18) Methyl Acetate	4.33	43	2677	0.870	ug/l #	84
20) Methylene Chloride	4.55	84	759477	206.144	ug/l	96
25) 2-Butanone	6.84	43	548	0.361	ug/l #	50
29) Tetrahydrofuran	7.21	42	392	0.388	ug/l #	36
31) Cyclohexane	7.67	56	7385	Below Cal	#	8
36) 1,1-Dichloropropene	7.67	75	25755	4.794	ug/l #	51
38) Carbon Tetrachloride	7.67	117	33147	7.155	ug/l #	17
41) Methacrylonitrile	7.19	41	334	0.322	ug/l #	23
43) Isopropyl Acetate	8.17	43	143967	22.509	ug/l	98
48) Methyl methacrylate	9.18	41	3522	1.086	ug/l #	35
49) 1,4-Dioxane	9.46	88	65	27.391	ug/l #	56
51) 4-Methyl-2-Pentanone	9.99	43	738	0.212	ug/l	88
59) 2-Hexanone	10.76	43	7217	2.913	ug/l	66
71) Bromoform	12.40	173	2529	3.309	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	139065	37.927	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	139065	125.885	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.21	75	61	1.020	ug/l #	11

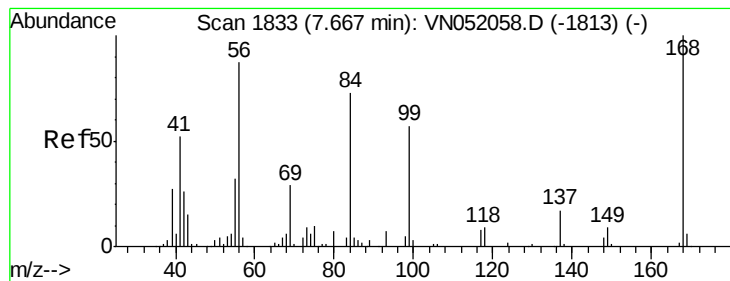
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Oct 31 02:45:22 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: VN052081.D

Acq: 31 Oct 2018 18:32

Instrument :

MSVOA_N

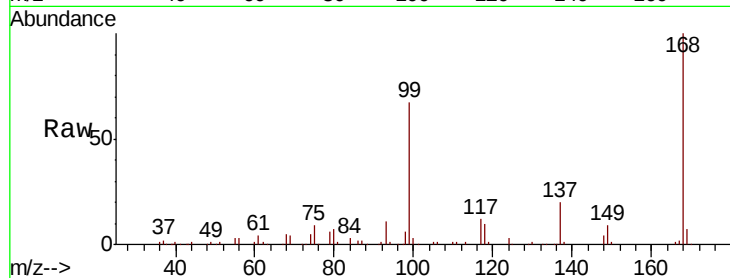
ClientSampleId :

Tot Ion:168 Resp: 282276

Ion Ratio Lower Upper

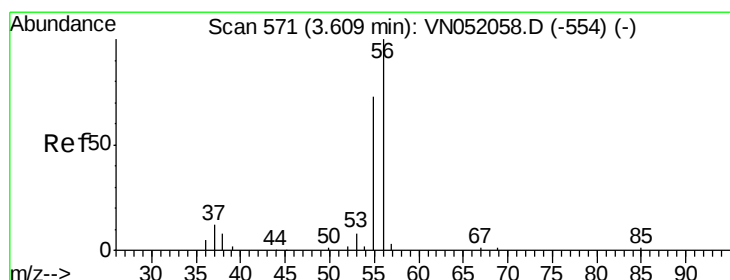
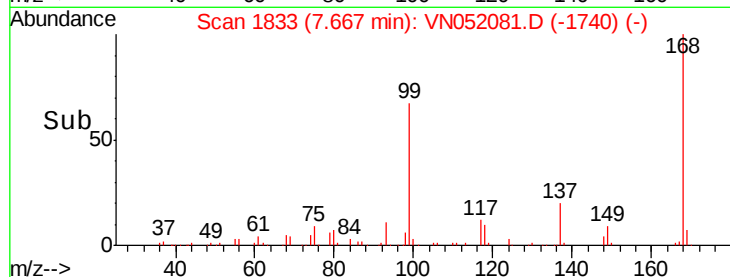
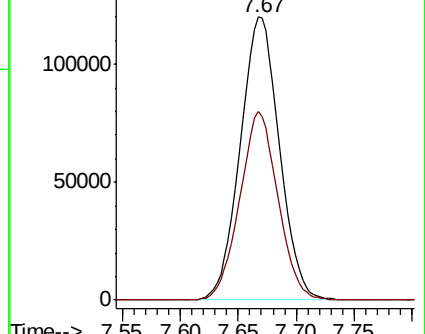
168 100

99 66.5 56.6 85.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#13

Acrolein

Concen: 24.295 ug/l

RT: 3.54 min Scan# 550

Delta R.T. -0.07 min

Lab File: VN052081.D

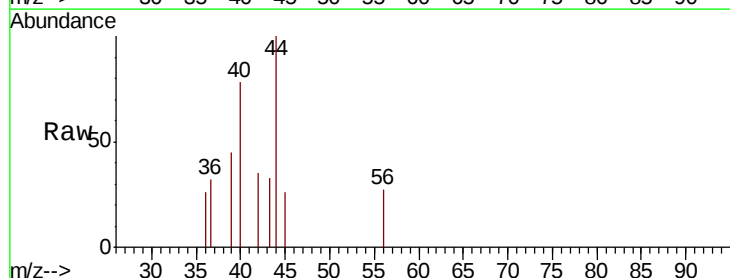
Acq: 31 Oct 2018 18:32

Tgt Ion: 56 Resp: 65

Ion Ratio Lower Upper

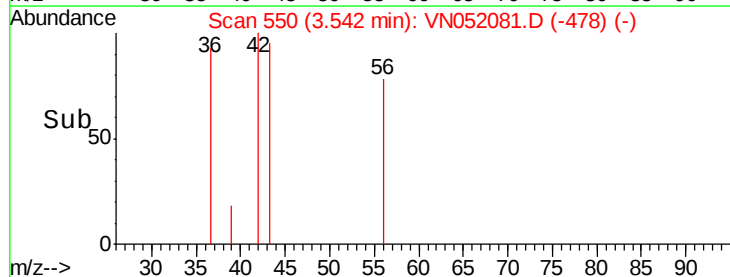
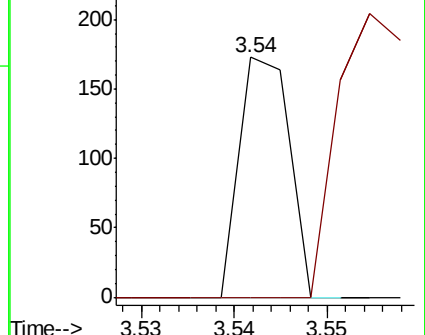
56 100

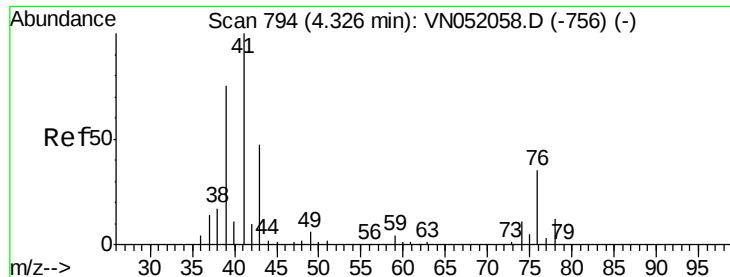
55 161.5 59.9 89.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#14

Allvl chloride

Concen: 5.039 ug/l

RT: 4.55 min Scan# 865

Delta R.T. 0.23 min

Lab File: VN052081.D

Acq: 31 Oct 2018 18:32

Instrument :
MSVOA_N
ClientSampled :

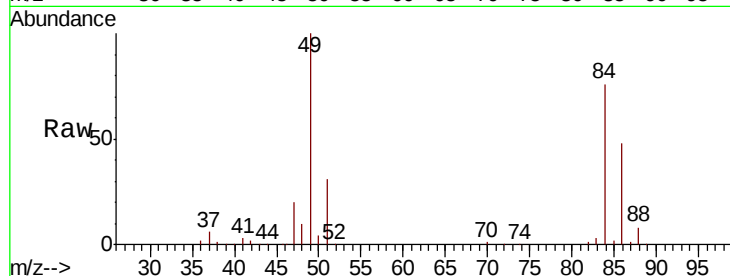
Tot Ion: 41 Resp: 29864

Ion Ratio Lower Upper

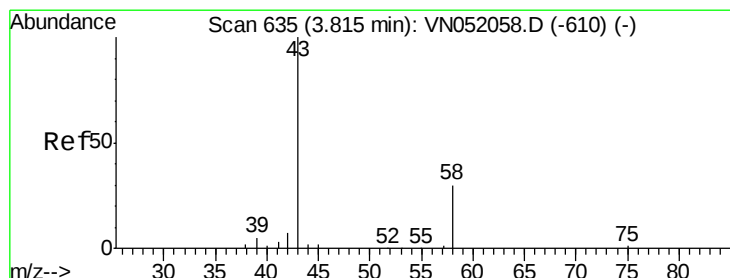
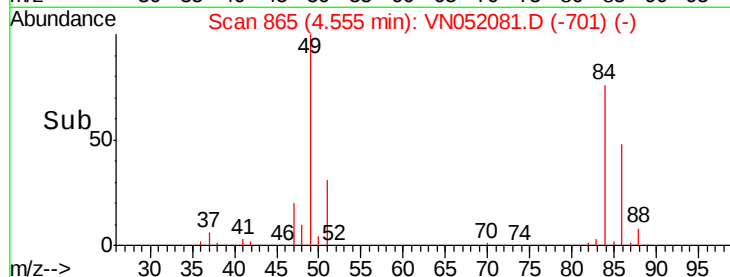
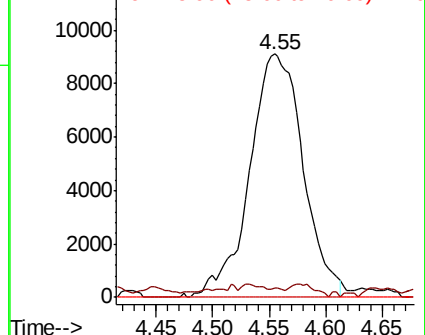
41 100

39 2.6 58.1 87.1#

76 0.0 26.0 39.0#



Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 75.90 (75.60 to 76.60): VN0



#16

Acetone

Concen: 11.504 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052081.D

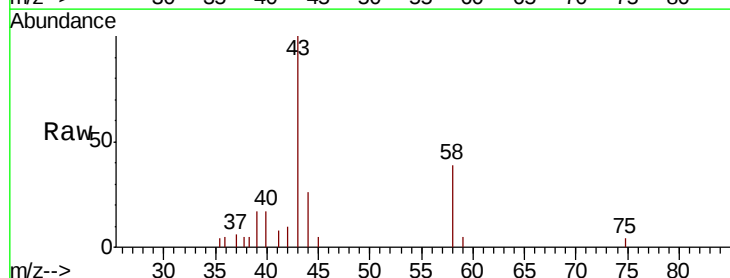
Acq: 31 Oct 2018 18:32

Tgt Ion: 43 Resp: 11123

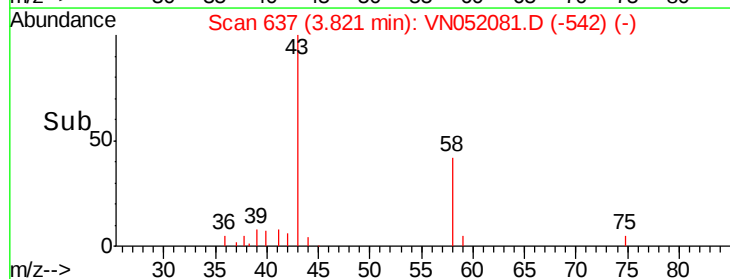
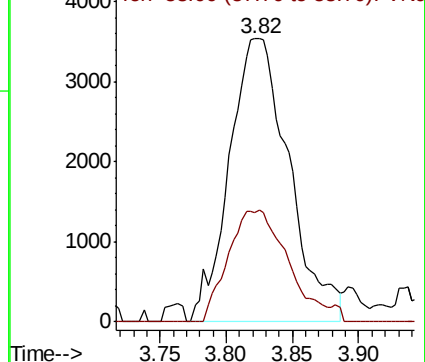
Ion Ratio Lower Upper

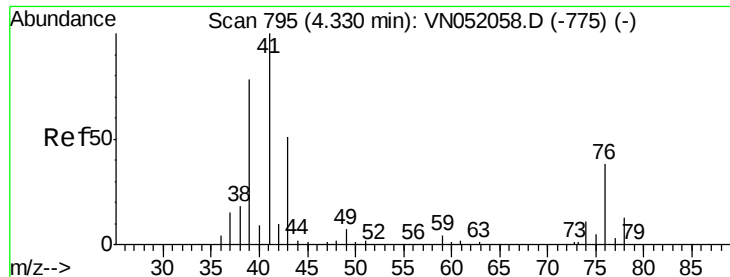
43 100

58 38.7 24.2 36.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

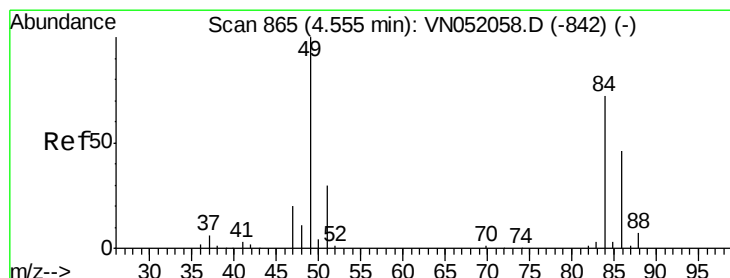
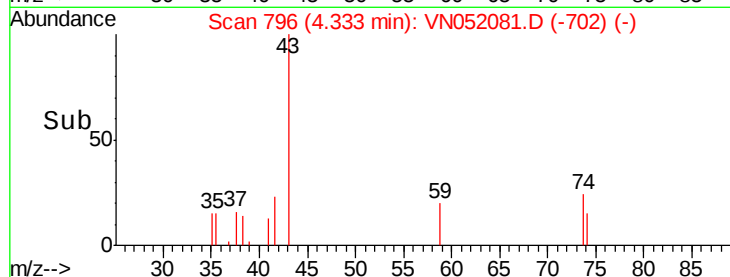
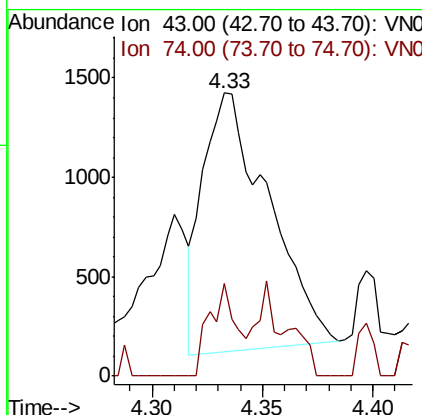
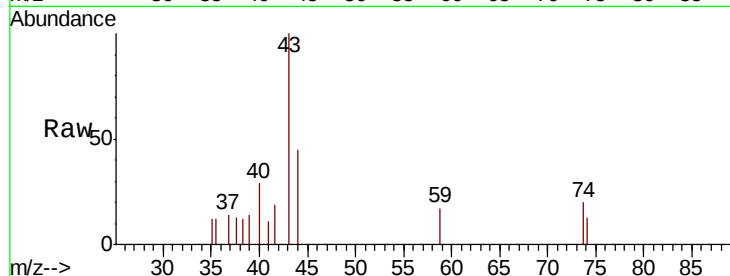




#18
Methyl Acetate
Concen: 0.870 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN052081.D
Acq: 31 Oct 2018 18:32

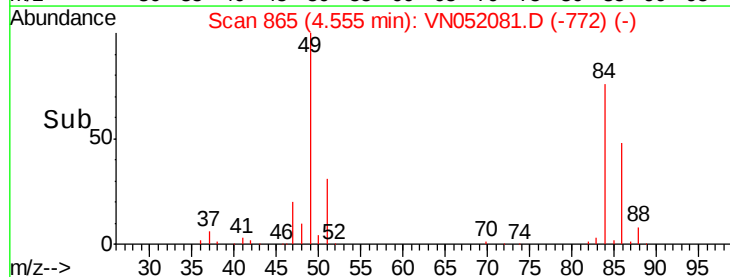
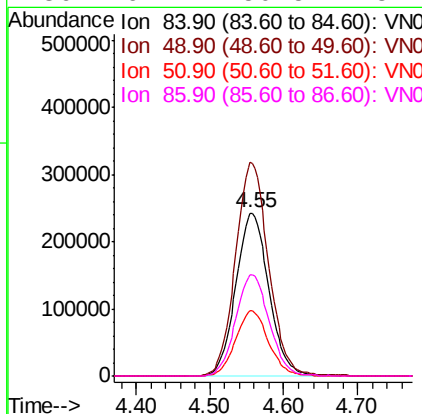
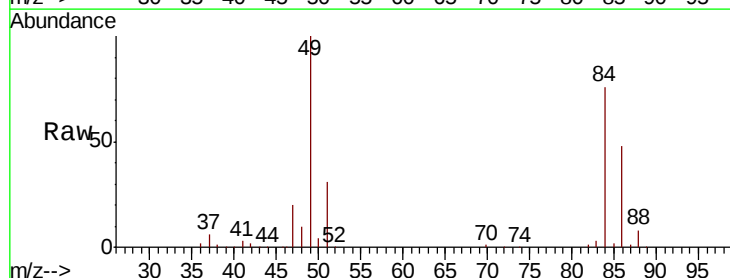
Instrument :
MSVOA_N
ClientSampled :

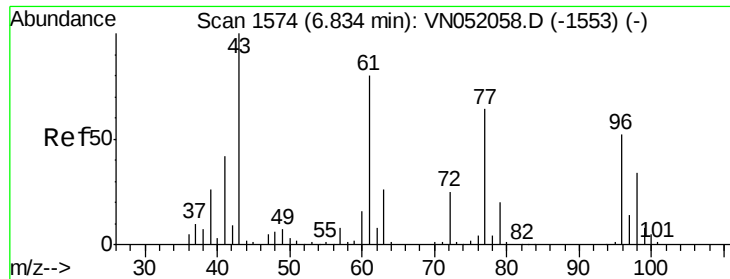
Tot Ion: 43 Resp: 2677
Ion Ratio Lower Upper
43 100
74 14.6 17.9 26.9#



#20
Methylene Chloride
Concen: 206.144 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN052081.D
Acq: 31 Oct 2018 18:32

Tgt Ion: 84 Resp: 759477
Ion Ratio Lower Upper
84 100
49 131.0 110.6 165.8
51 40.3 33.7 50.5
86 62.4 50.5 75.7





#25

2-Butanone

Concen: 0.361 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VN052081.D

Acq: 31 Oct 2018 18:32

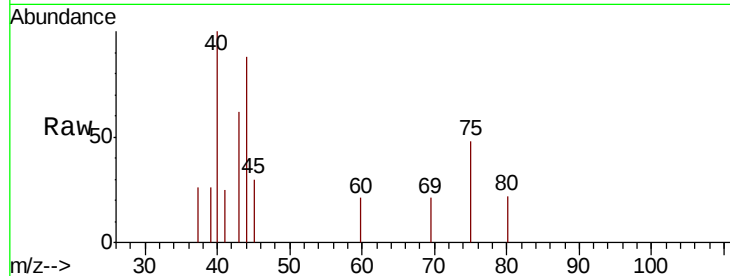
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 548

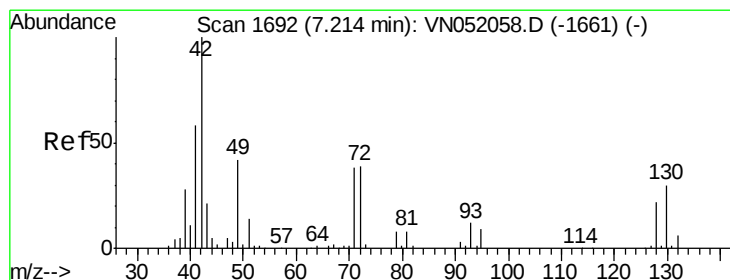
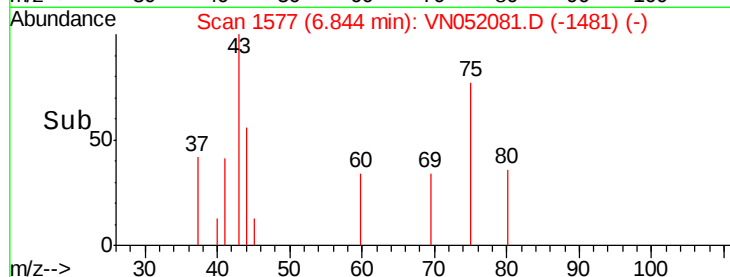
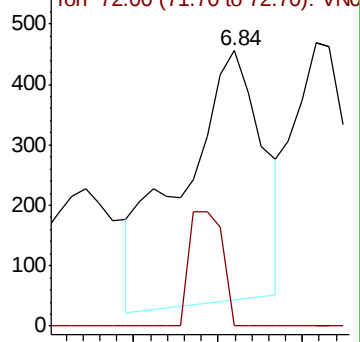
Ion Ratio Lower Upper

43 100

72 0.0 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VNC



#29

Tetrahydrofuran

Concen: 0.388 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. -0.00 min

Lab File: VN052081.D

Acq: 31 Oct 2018 18:32

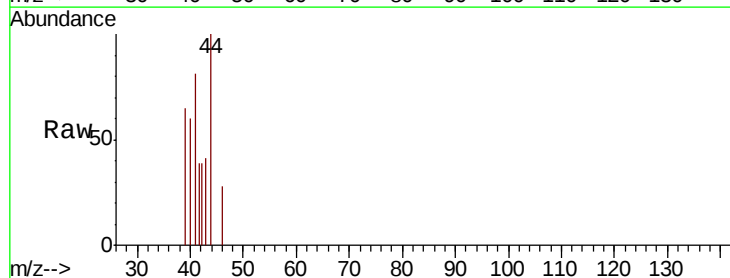
Tgt Ion: 42 Resp: 392

Ion Ratio Lower Upper

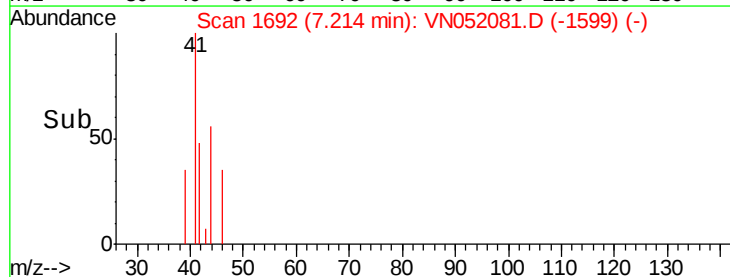
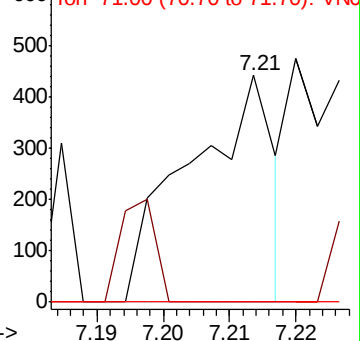
42 100

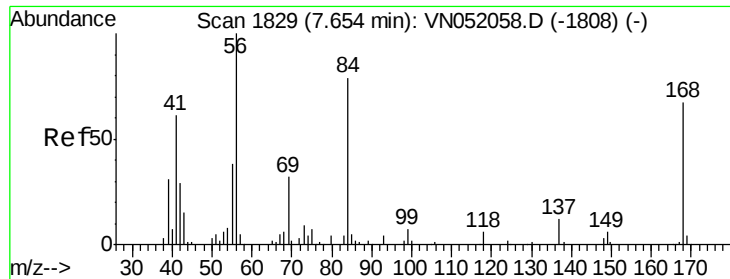
72 0.0 32.5 48.7#

71 0.0 30.6 46.0#



Abundance Ion 42.00 (41.70 to 42.70): VNC

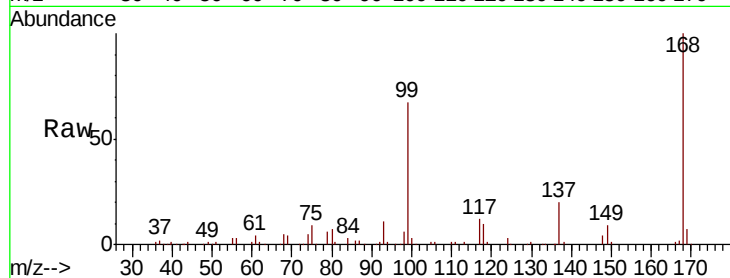




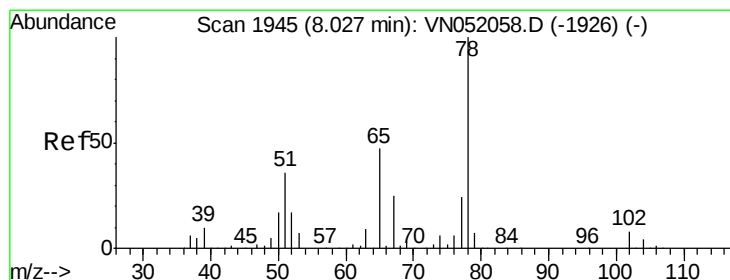
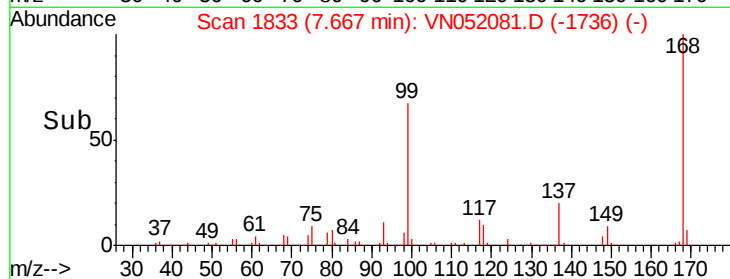
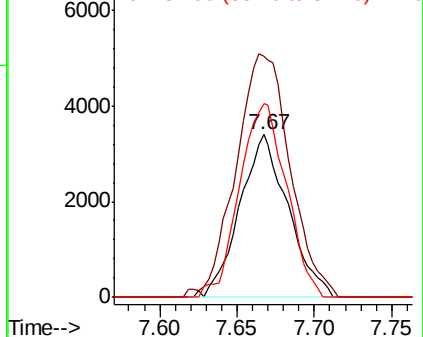
#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN052081.D
Acq: 31 Oct 2018 18:32

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 7385
Ion Ratio Lower Upper
56 100
69 148.2 25.8 38.6#
84 119.5 63.5 95.3#

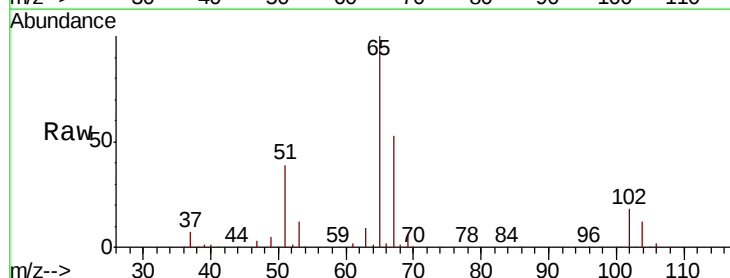


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

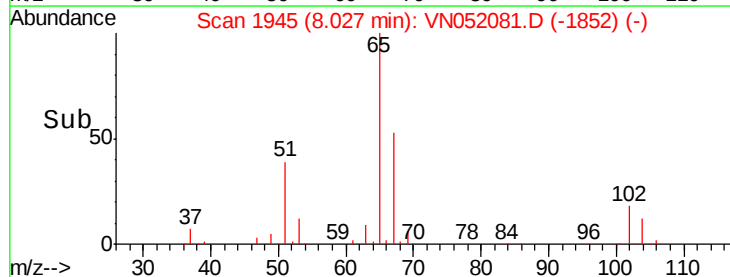
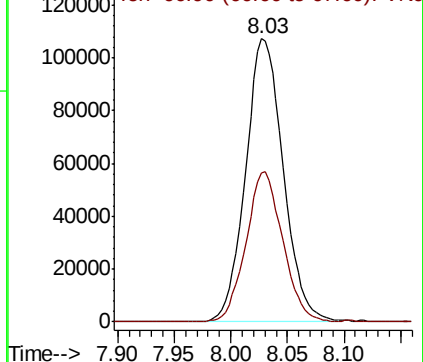


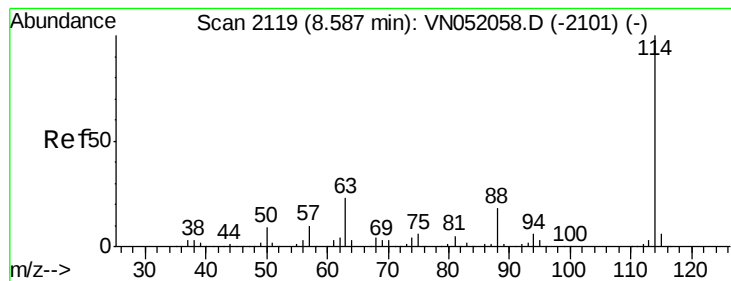
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN052081.D
Acq: 31 Oct 2018 18:32

Tgt Ion: 65 Resp: 248824
Ion Ratio Lower Upper
65 100
67 51.5 0.0 105.2



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN052081.D

Acq: 31 Oct 2018 18:32

Instrument :

MSVOA_N

ClientSampleId :

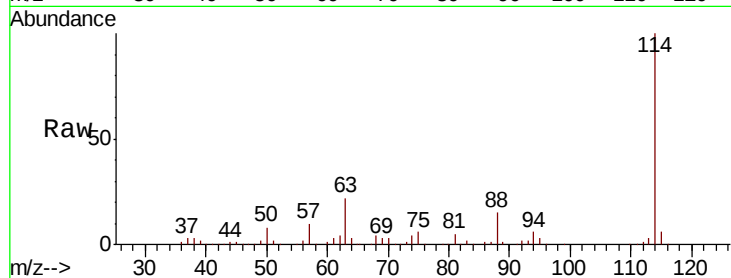
Tot Ion:114 Resp: 528377

Ion Ratio Lower Upper

114 100

63 22.0 0.0 46.0

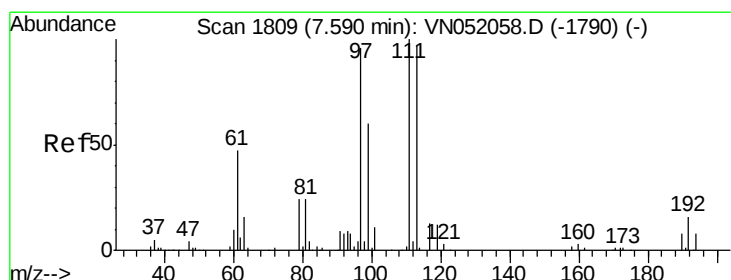
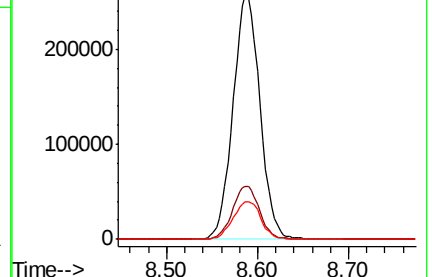
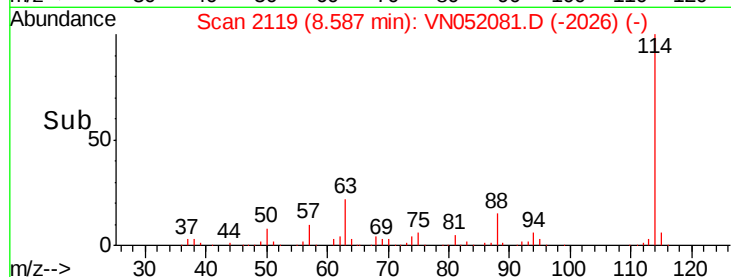
88 15.4 0.0 35.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN052081.D

Acq: 31 Oct 2018 18:32

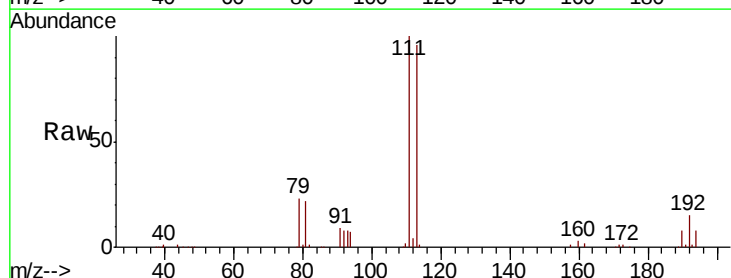
Tgt Ion:113 Resp: 205392

Ion Ratio Lower Upper

113 100

111 102.0 83.1 124.7

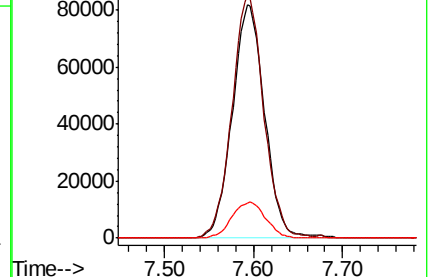
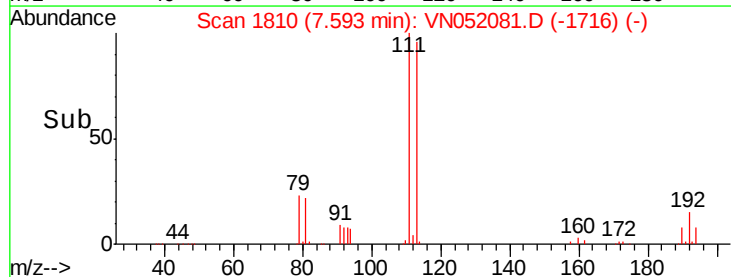
192 16.2 12.7 19.1

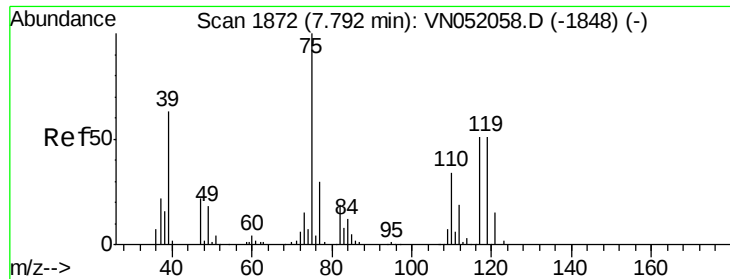


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.794 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.12 min

Lab File: VN052081.D

Acq: 31 Oct 2018 18:32

Instrument :

MSVOA_N

ClientSampled :

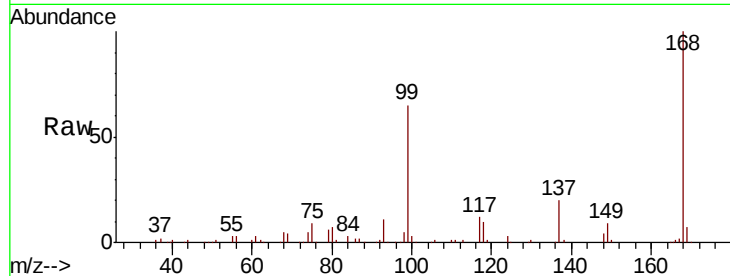
Tot Ion: 75 Resp: 25755

Ion Ratio Lower Upper

75 100

110 8.9 16.0 48.0#

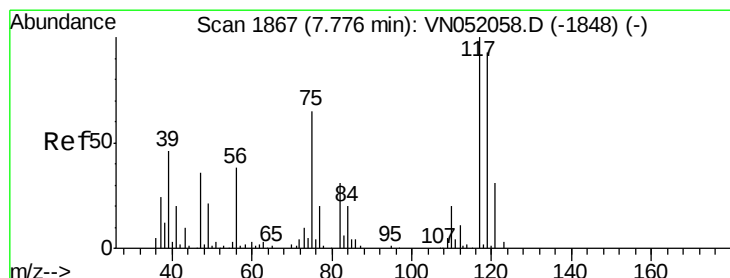
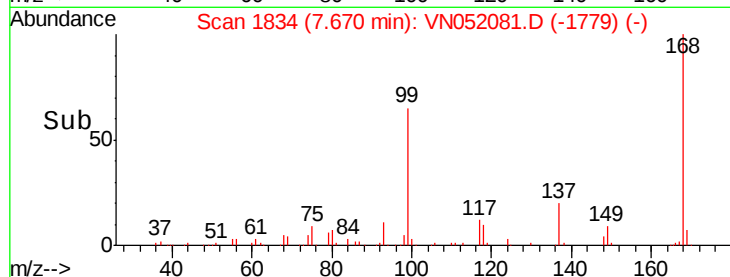
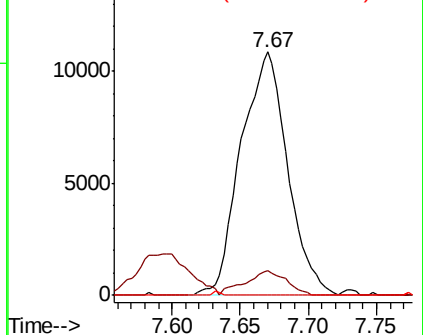
77 0.0 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VN052081.D (-1779) (-)

Ion 109.90 (109.60 to 110.60): VN052081.D (-1779) (-)

Ion 76.90 (76.60 to 77.60): VN052081.D (-1779) (-)



#38

Carbon Tetrachloride

Concen: 7.155 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052081.D

Acq: 31 Oct 2018 18:32

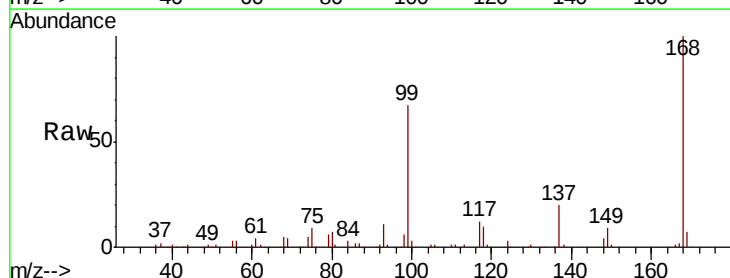
Tgt Ion: 117 Resp: 33147

Ion Ratio Lower Upper

117 100

119 5.2 74.8 112.2#

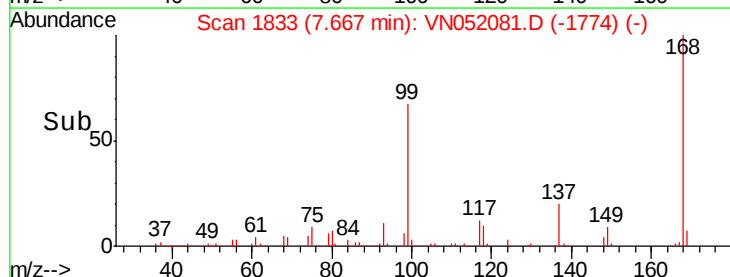
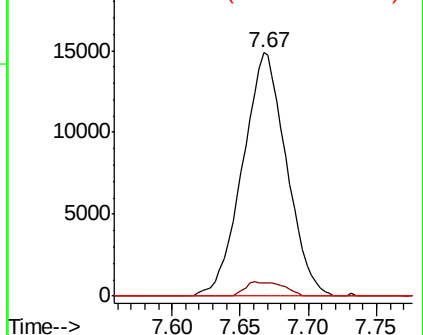
121 0.0 25.1 37.7#

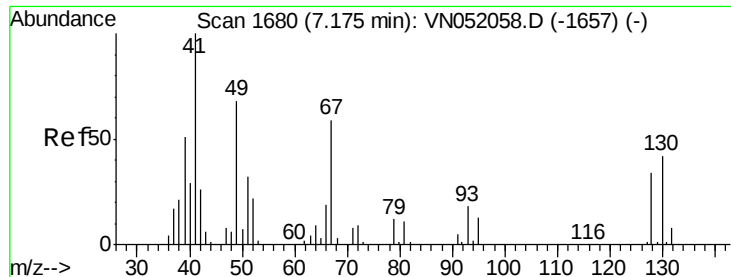


Abundance Ion 116.80 (116.50 to 117.50): VN052081.D (-1774) (-)

Ion 118.80 (118.50 to 119.50): VN052081.D (-1774) (-)

Ion 120.80 (120.50 to 121.50): VN052081.D (-1774) (-)

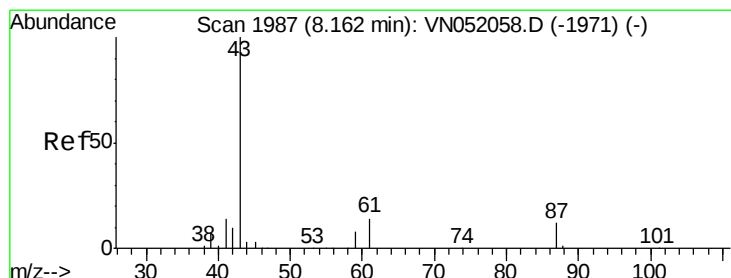
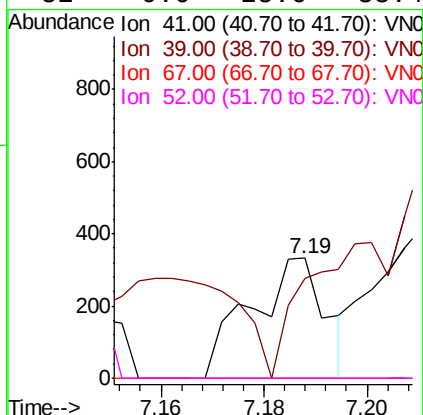
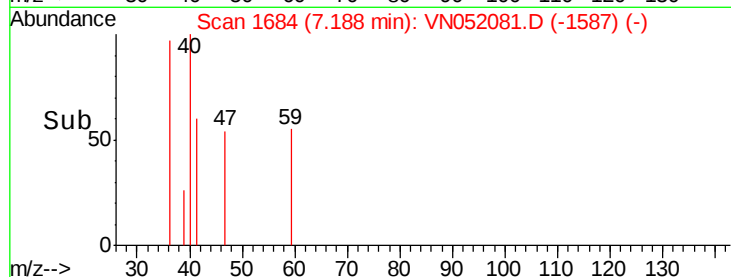
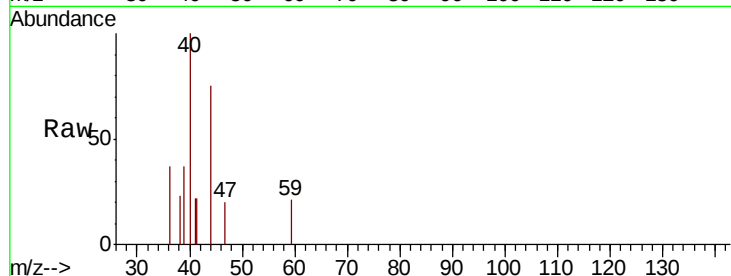




#41
Methacrylonitrile
Concen: 0.322 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. 0.01 min
Lab File: VN052081.D
Acq: 31 Oct 2018 18:32

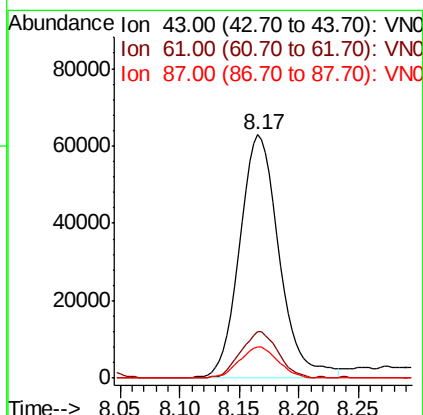
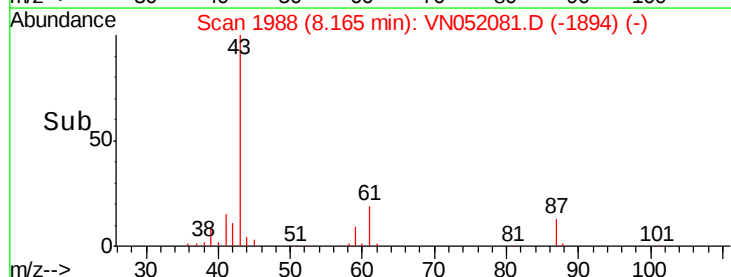
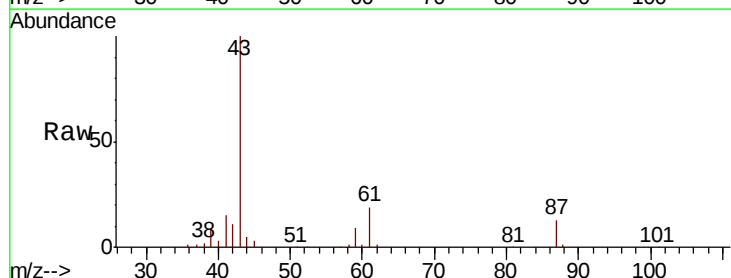
Instrument :
MSVOA_N
ClientSampled :

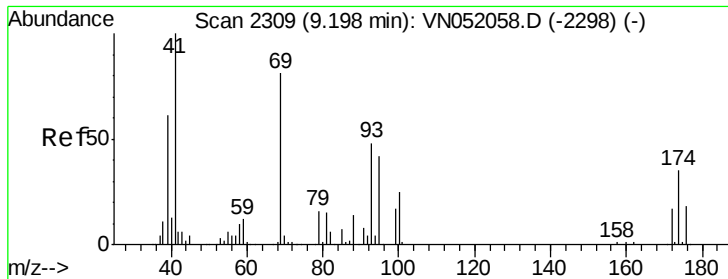
Tot Ion: 41 Resp: 334
Ion Ratio Lower Upper
41 100
39 0.0 33.2 49.8#
67 0.0 63.5 95.3#
52 0.0 25.6 38.4#



#43
Isopropyl Acetate
Concen: 22.509 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN052081.D
Acq: 31 Oct 2018 18:32

Tgt Ion: 43 Resp: 143967
Ion Ratio Lower Upper
43 100
61 18.2 15.4 23.0
87 12.5 9.8 14.8

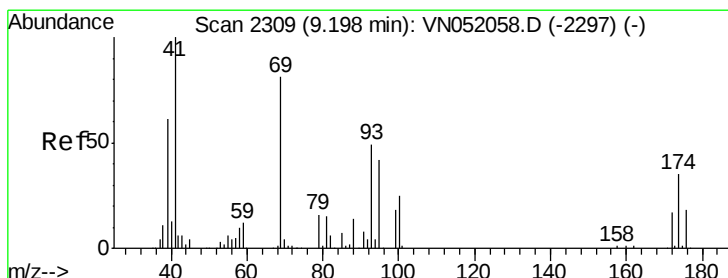
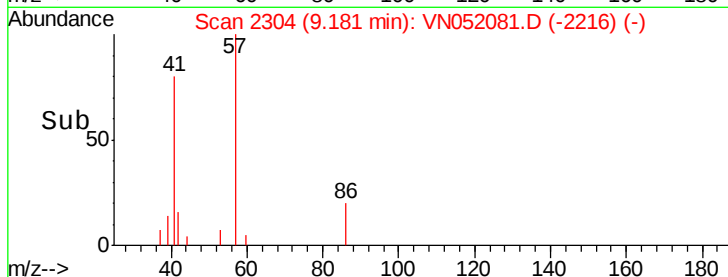
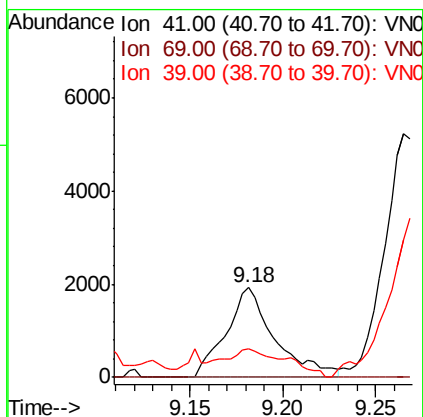
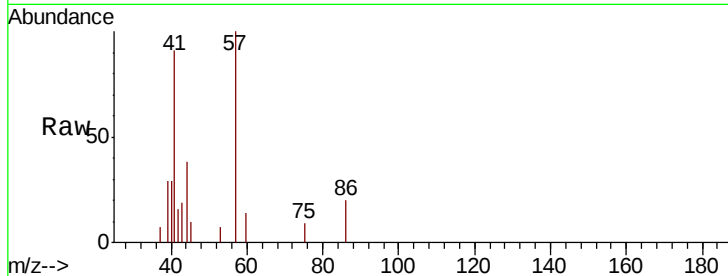




#48
Methvl methacrylate
Concen: 1.086 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN052081.D
Acq: 31 Oct 2018 18:32

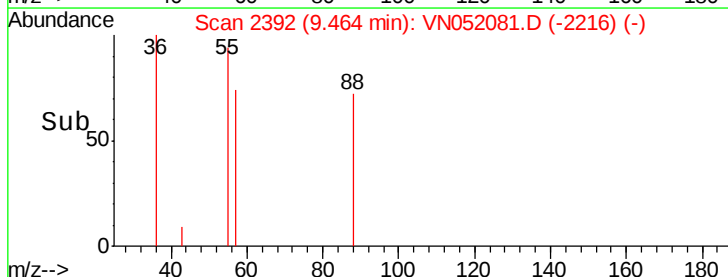
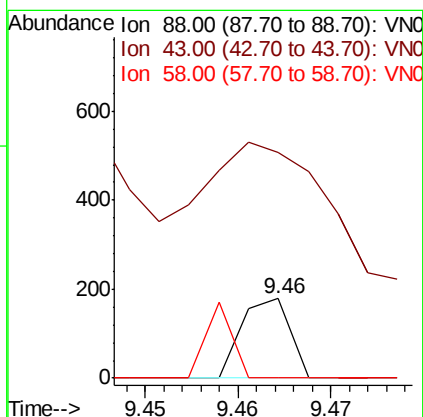
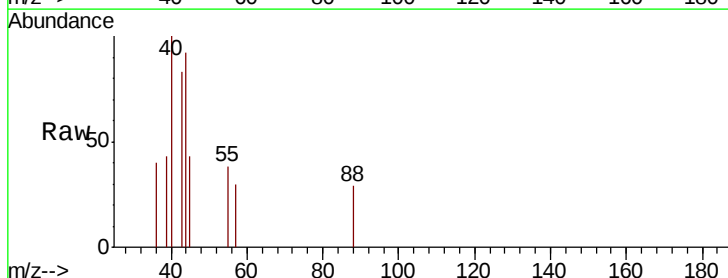
Instrument :
MSVOA_N
ClientSampled :

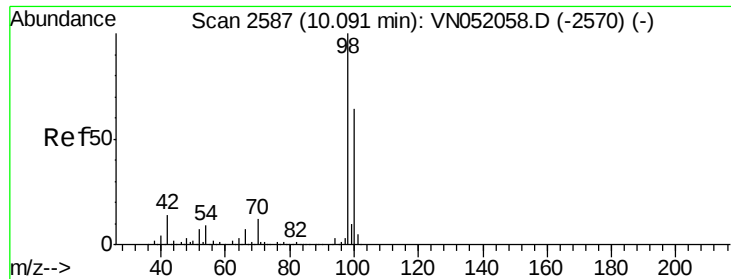
Tot Ion: 41 Resp: 3522
Ion Ratio Lower Upper
41 100
69 0.0 67.1 100.7#
39 40.5 50.5 75.7#



#49
1,4-Dioxane
Concen: 27.391 ug/l
RT: 9.46 min Scan# 2392
Delta R.T. 0.27 min
Lab File: VN052081.D
Acq: 31 Oct 2018 18:32

Tgt Ion: 88 Resp: 65
Ion Ratio Lower Upper
88 100
43 0.0 34.1 51.1#
58 50.8 62.8 94.2#

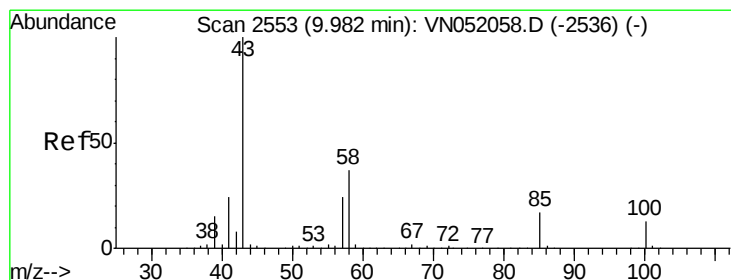
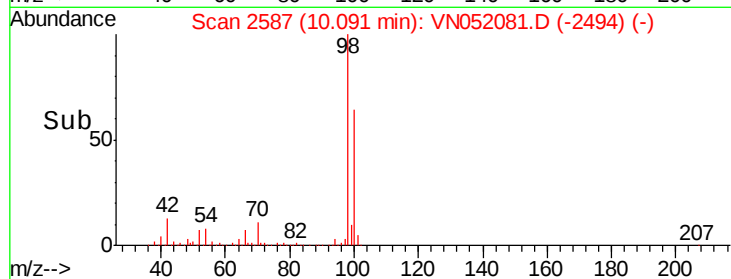
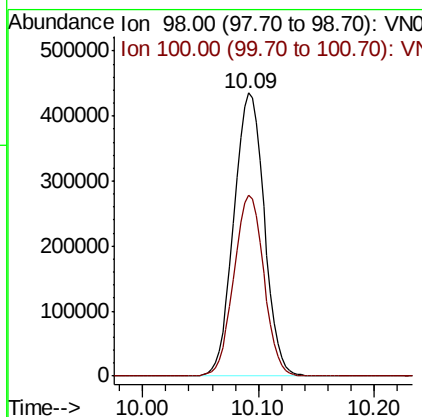
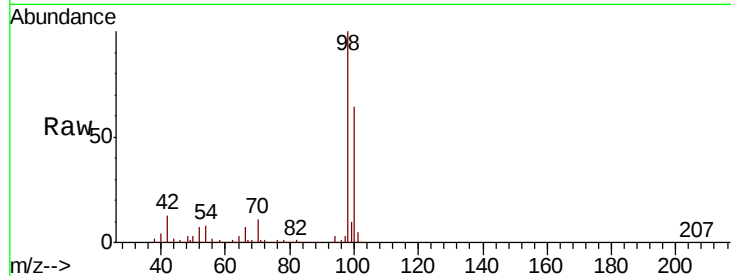




#50
Toluene-d8
Concen: 27.391 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN052081.D
Acq: 31 Oct 2018 18:32

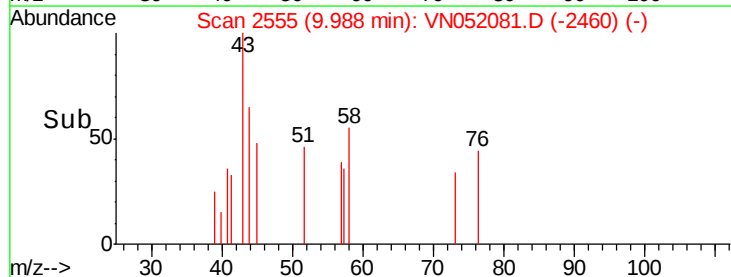
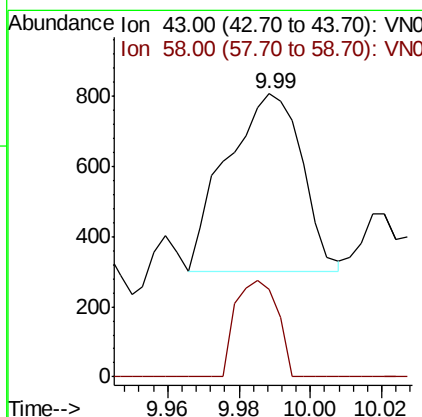
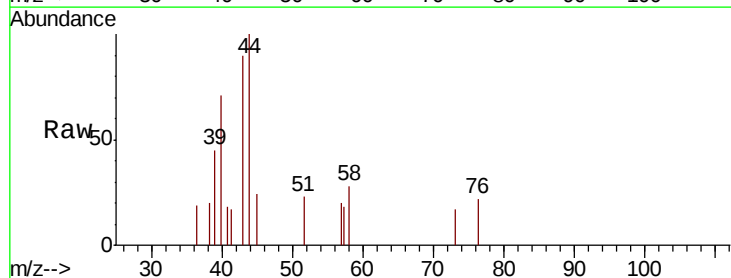
Instrument :
MSVOA_N
ClientSampleId :

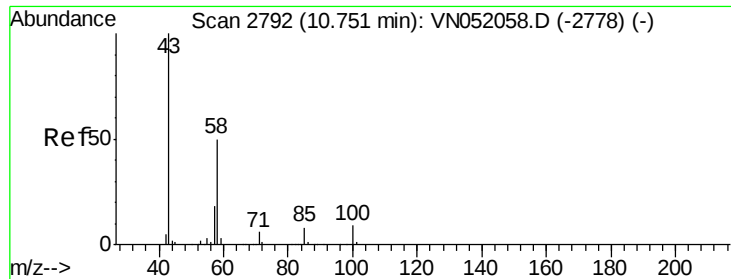
Tot Ion: 98 Resp: 791065
Ion Ratio Lower Upper
98 100
100 63.3 51.4 77.2



#51
4-Methyl-2-Pentanone
Concen: 0.212 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.01 min
Lab File: VN052081.D
Acq: 31 Oct 2018 18:32

Tgt Ion: 43 Resp: 738
Ion Ratio Lower Upper
43 100
58 30.2 29.7 44.5

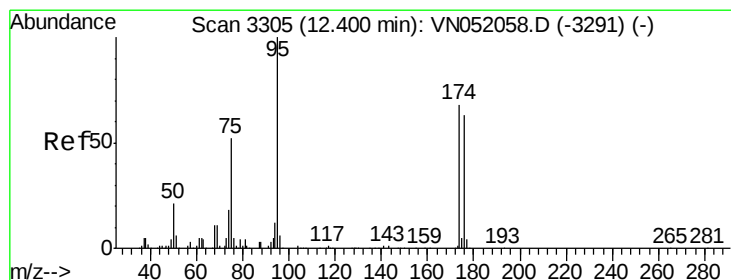
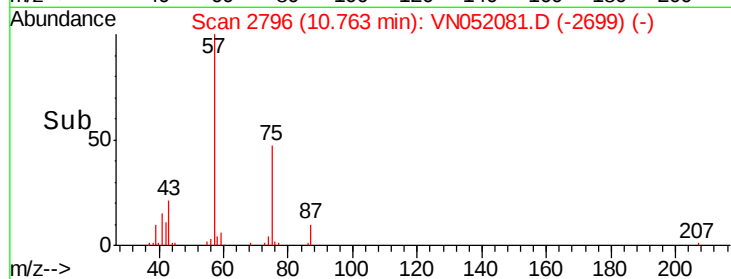
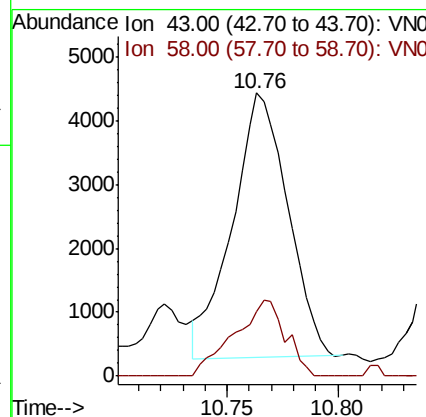
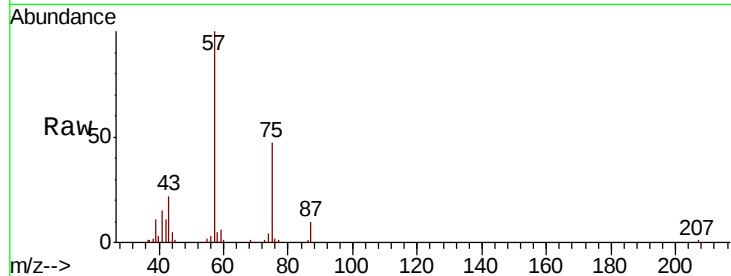




#59
2-Hexanone
Concen: 2.913 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052081.D
Acq: 31 Oct 2018 18:32

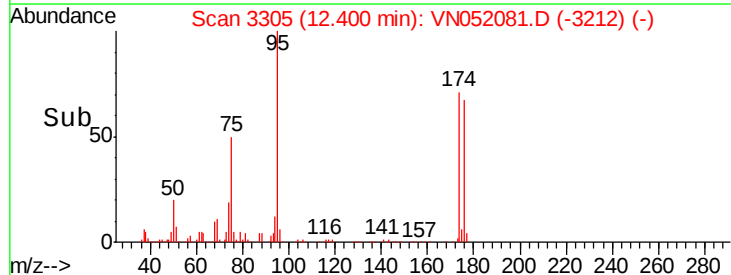
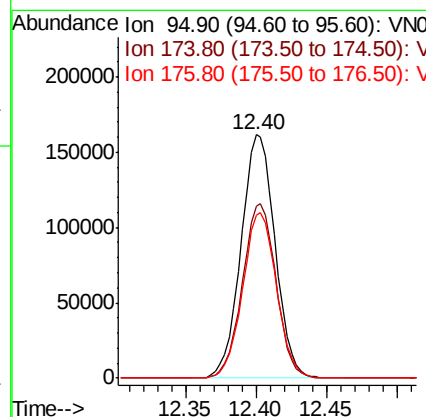
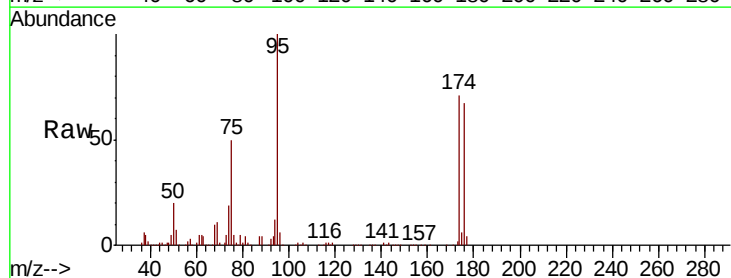
Instrument :
MSVOA_N
ClientSampled :

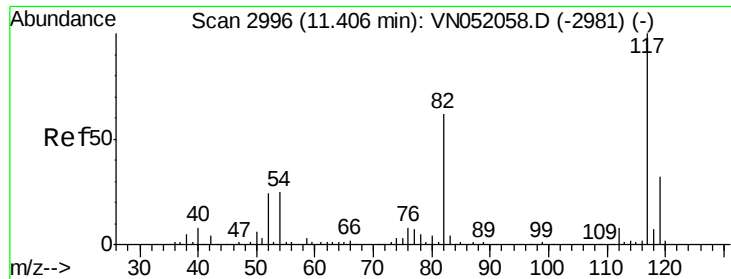
Tot Ion: 43 Resp: 7217
Ion Ratio Lower Upper
43 100
58 26.7 25.2 75.6



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN052081.D
Acq: 31 Oct 2018 18:32

Tgt Ion: 95 Resp: 273008
Ion Ratio Lower Upper
95 100
174 70.5 0.0 131.8
176 67.6 0.0 126.0

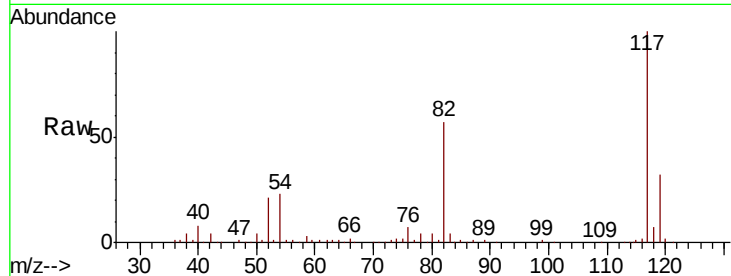




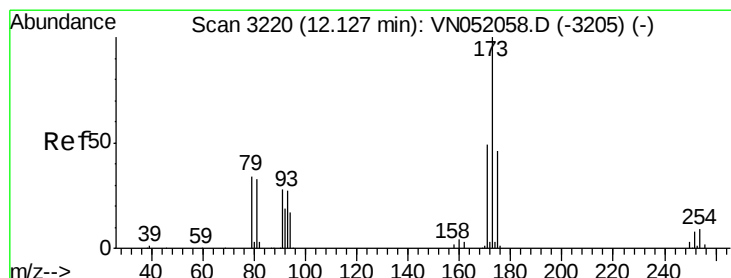
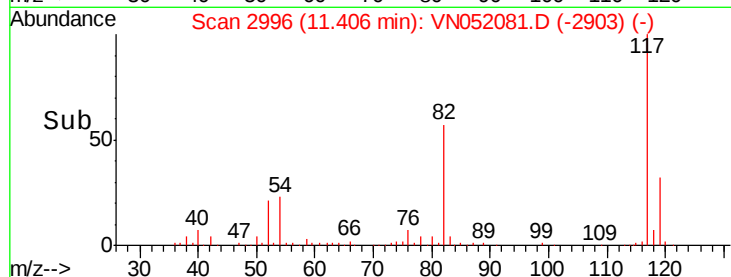
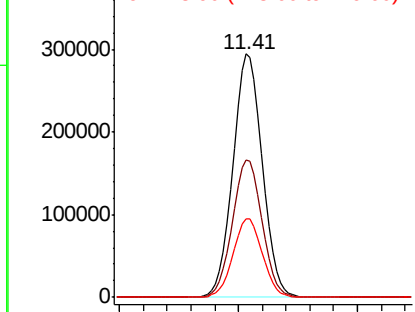
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052081.D
Acq: 31 Oct 2018 18:32

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 502941
Ion Ratio Lower Upper
117 100
82 56.6 49.9 74.9
119 32.3 25.7 38.5

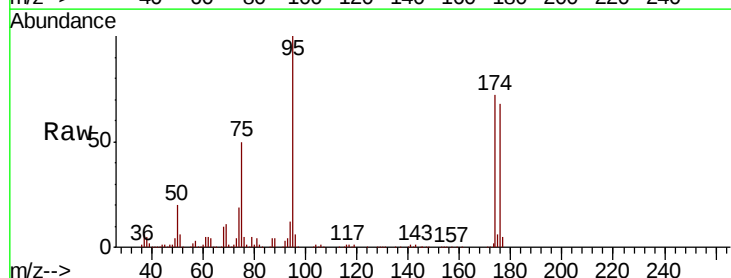


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

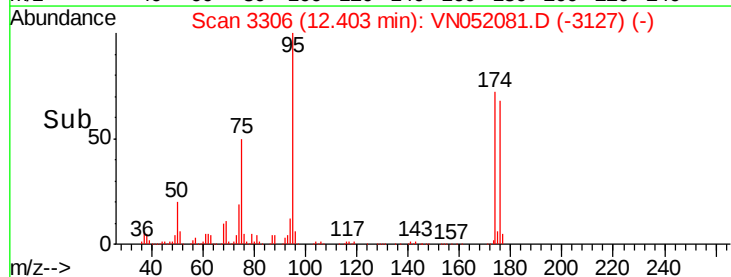
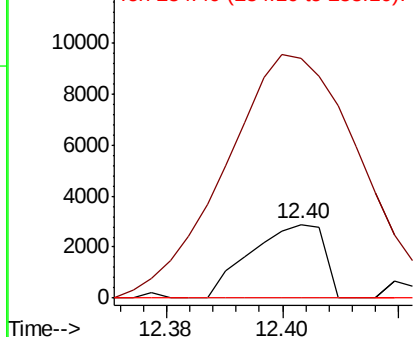


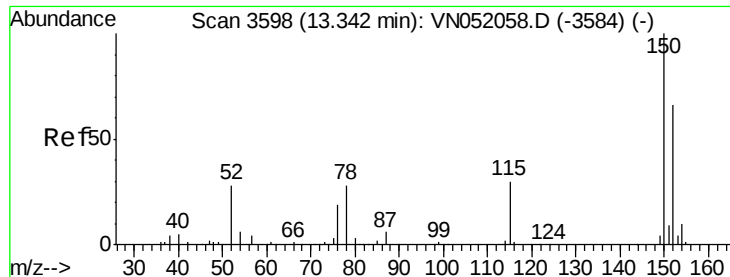
#71
Bromoform
Concen: 3.309 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052081.D
Acq: 31 Oct 2018 18:32

Tgt Ion:173 Resp: 2529
Ion Ratio Lower Upper
173 100
175 537.8 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



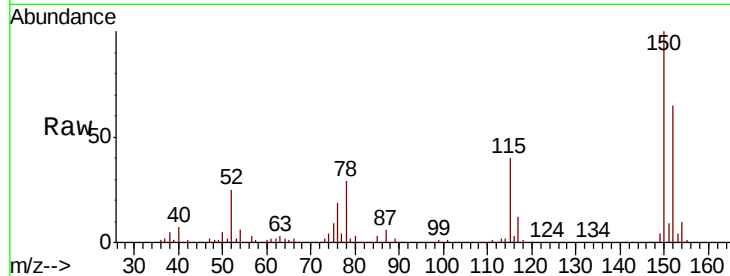


#72

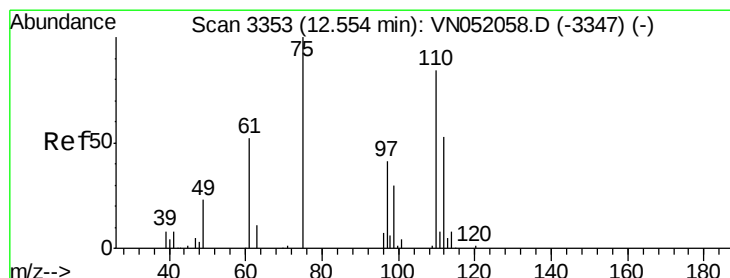
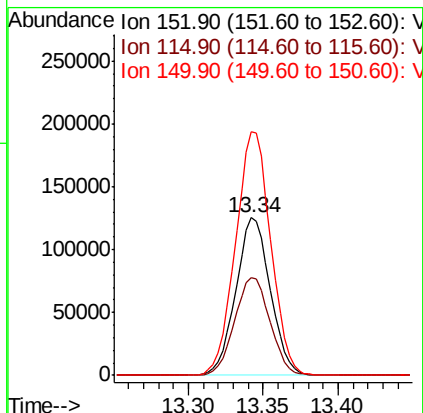
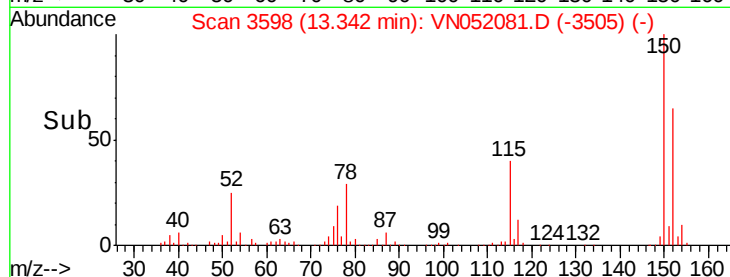
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN052081.D
Acq: 31 Oct 2018 18:32

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	63.8	31.6	95.0
150	158.2	0.0	345.0



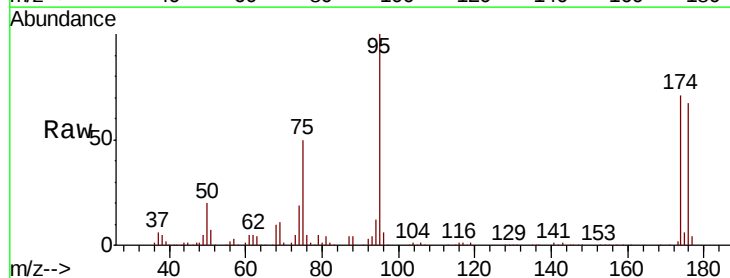
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



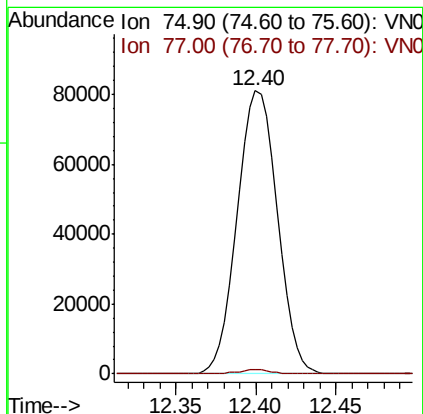
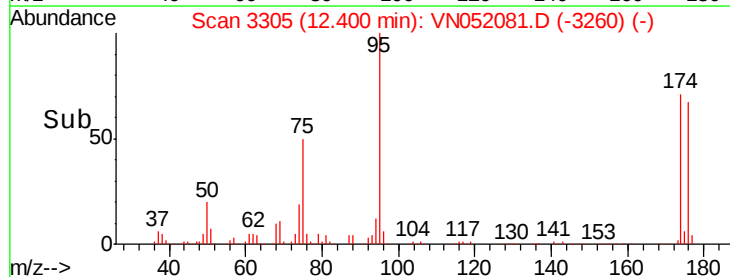
#76

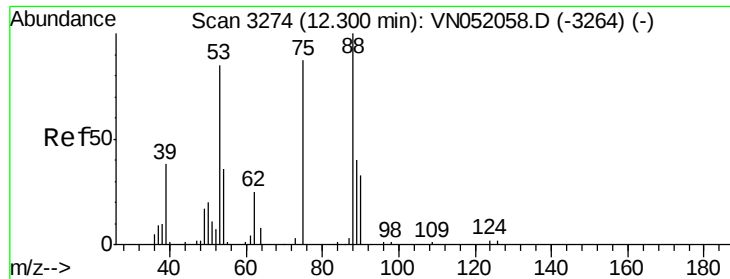
1,2,3-Trichloropropane
Concen: 37.927 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN052081.D
Acq: 31 Oct 2018 18:32

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.2	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: 125.885 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052081.D

Acq: 31 Oct 2018 18:32

Instrument :

MSVOA_N

ClientSampleId :

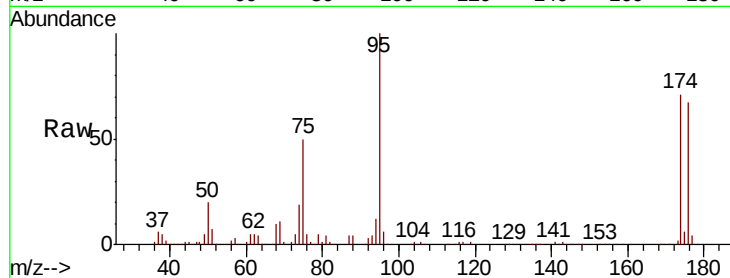
Tot Ion: 75 Resp: 139065

Ion Ratio Lower Upper

75 100

53 0.0 81.8 122.6#

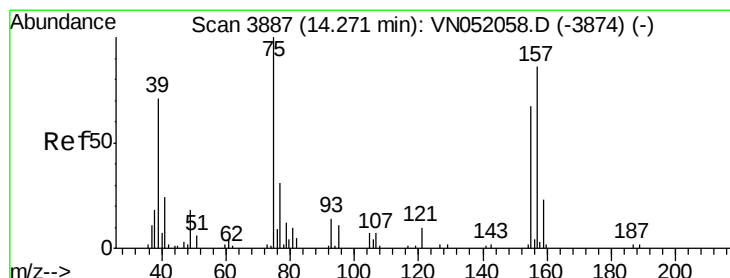
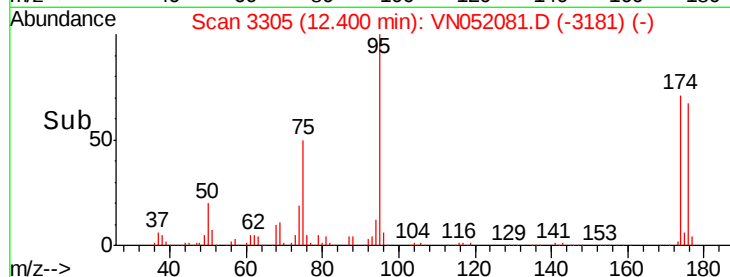
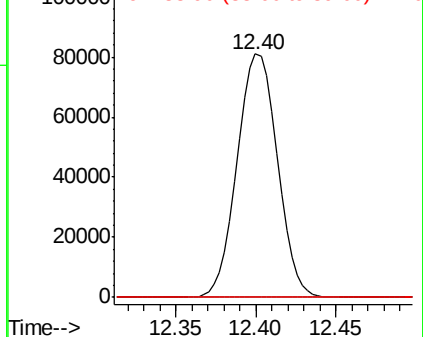
89 0.0 36.6 54.8#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.020 ug/l

RT: 14.21 min Scan# 3869

Delta R.T. -0.06 min

Lab File: VN052081.D

Acq: 31 Oct 2018 18:32

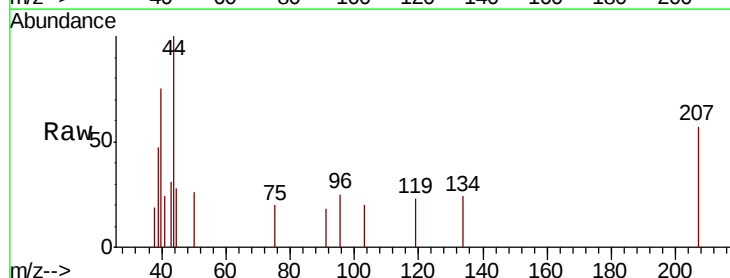
Tgt Ion: 75 Resp: 61

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): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

