

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111518\
 Data File : VN052333.D
 Acq On : 15 Nov 2018 10:50
 Operator : MD\SY
 Sample : PB114830TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

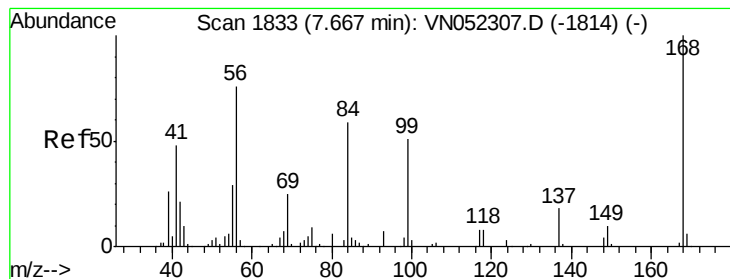
Quant Time: Nov 16 02:49:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	344907	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	576654	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	494098	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	167697	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	235357	48.32	ug/l	0.00
Spiked Amount			Recovery	=	96.64%	
35) Dibromofluoromethane	7.59	113	184440	49.59	ug/l	0.00
Spiked Amount			Recovery	=	99.18%	
50) Toluene-d8	10.09	98	729120	49.83	ug/l	0.00
Spiked Amount			Recovery	=	99.66%	
62) 4-Bromofluorobenzene	12.40	95	213637	44.38	ug/l	0.00
Spiked Amount			Recovery	=	88.76%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	186	22.208	ug/l #	14
16) Acetone	3.82	43	6872	5.124	ug/l	92
18) Methyl Acetate	4.32	43	640	0.600	ug/l #	67
20) Methylene Chloride	4.55	84	13161	2.561	ug/l	92
29) Tetrahydrofuran	7.20	42	251	0.202	ug/l #	40
31) Cyclohexane	7.67	56	9884	0.280	ug/l #	29
36) 1,1-Dichloropropene	7.67	75	31922	5.523	ug/l #	51
38) Carbon Tetrachloride	7.67	117	36222	6.821	ug/l #	15
41) Methacrylonitrile	7.17	41	30	3.707	ug/l #	100
43) Isopropyl Acetate	8.17	43	20924	2.585	ug/l #	88
48) Methyl methacrylate	9.18	41	5596	1.362	ug/l #	16
51) 4-Methyl-2-Pentanone	10.02	43	7277	1.786	ug/l #	41
54) cis-1,3-Dichloropropene	9.90	75	42790	6.686	ug/l #	70
57) 1,3-Dichloropropane	10.76	76	7812	1.232	ug/l #	43
59) 2-Hexanone	10.76	43	140956	50.296	ug/l #	55
71) Bromoform	12.40	173	1893	0.900	ug/l #	1
74) N-amyl acetate	12.06	43	1539	0.320	ug/l #	55
76) 1,2,3-Trichloropropane	12.40	75	119147	41.872	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	11185	1.043	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	119147	135.807	ug/l #	5
93) 1,2,4-Trichlorobenzene	14.91	180	1035	2.650	ug/l	63
94) Hexachlorobutadiene	15.01	225	407	0.329	ug/l	88
95) Naphthalene	15.13	128	2869	3.063	ug/l	98
96) 1,2,3-Trichlorobenzene	15.30	180	772	0.376	ug/l #	64

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052333.D

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Instrument :

MSVOA_N

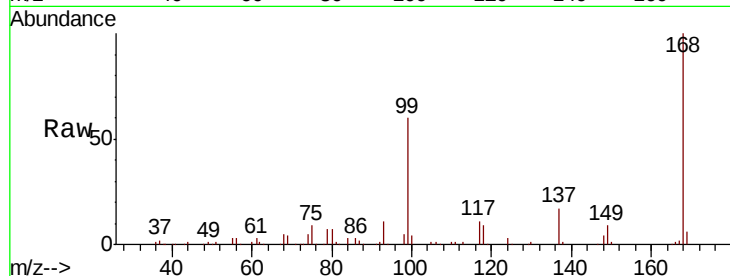
ClientSampled :

Tot Ion:168 Resp: 344907

Ion Ratio Lower Upper

168 100

99 59.9 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VN052307.D (-1814) (-)

Ion 98.90 (98.60 to 99.60): VN052307.D (-1814) (-)

7.67

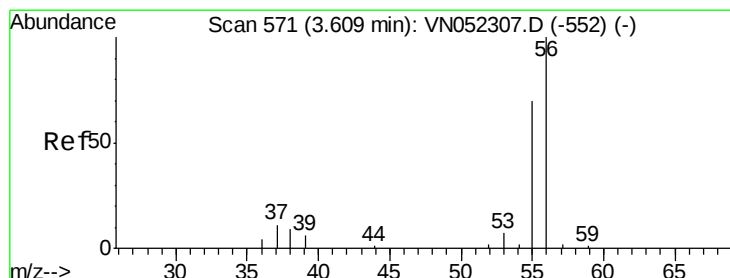
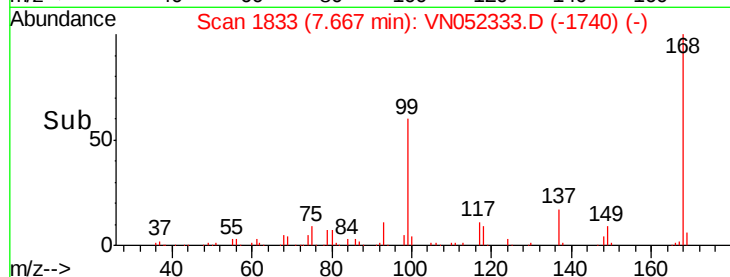
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 22.208 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN052333.D

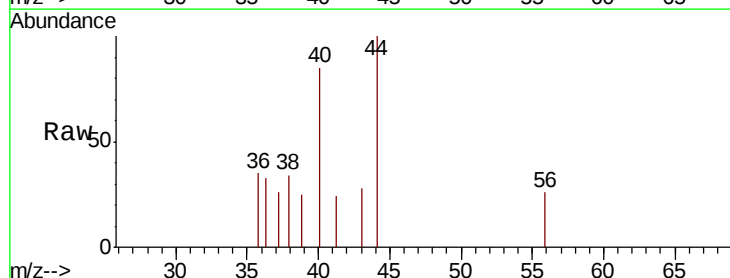
Acq: 15 Nov 2018 10:50

Tgt Ion: 56 Resp: 186

Ion Ratio Lower Upper

56 100

55 0.0 57.6 86.4#



Abundance Ion 56.00 (55.70 to 56.70): VN052307.D (-552) (-)

Ion 55.00 (54.70 to 55.70): VN052307.D (-552) (-)

3.61

200

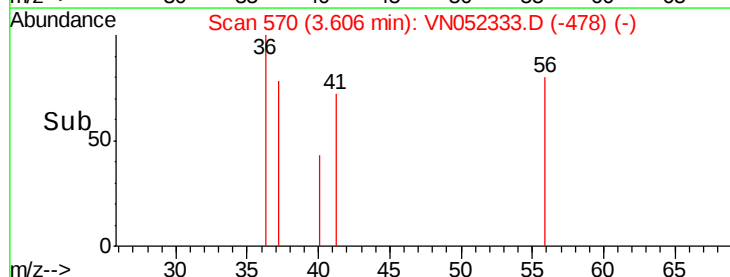
150

100

50

0

Time-->





#16

Acetone

Concen: 5.124 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052333.D

Acq: 15 Nov 2018 10:50

Instrument :

MSVOA_N

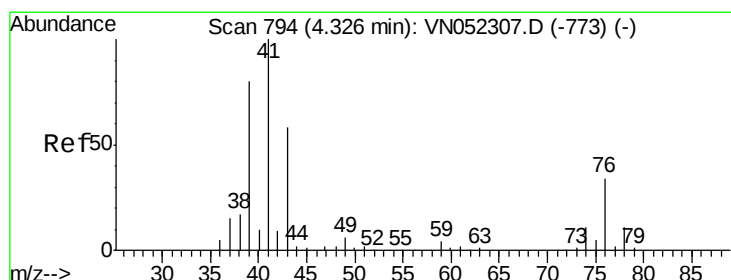
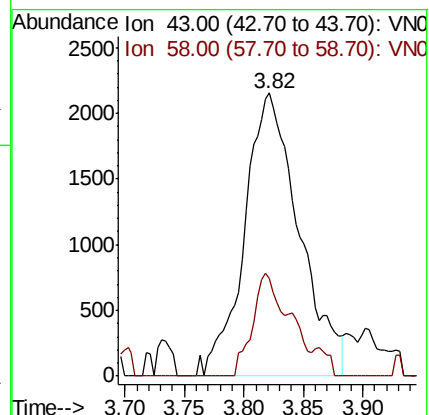
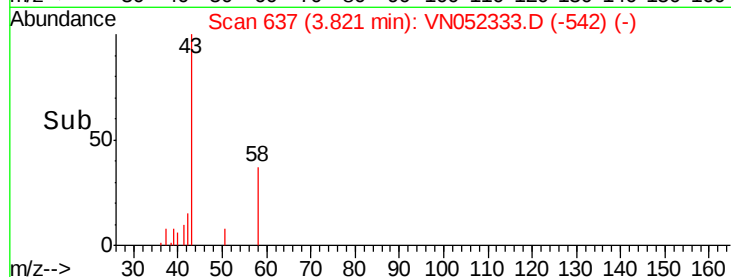
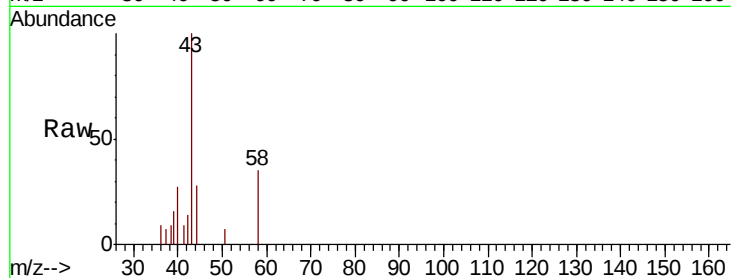
ClientSampleId :

Tot Ion: 43 Resp: 6872

Ion Ratio Lower Upper

43 100

58 34.6 24.2 36.4



#18

Methyl Acetate

Concen: 0.600 ug/l

RT: 4.32 min Scan# 791

Delta R.T. -0.01 min

Lab File: VN052333.D

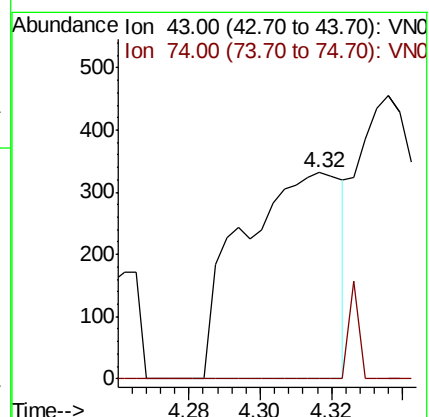
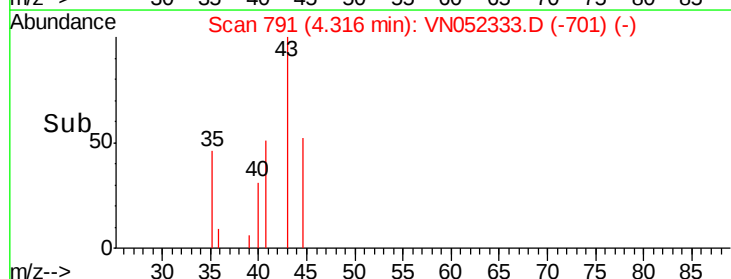
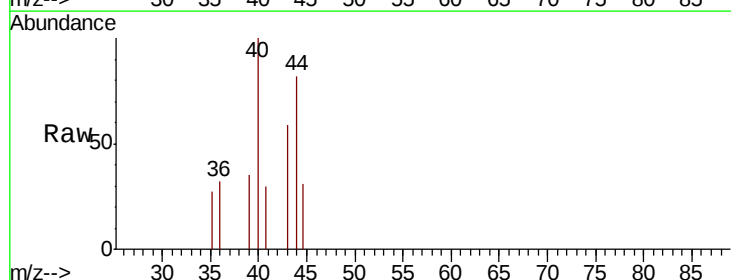
Acq: 15 Nov 2018 10:50

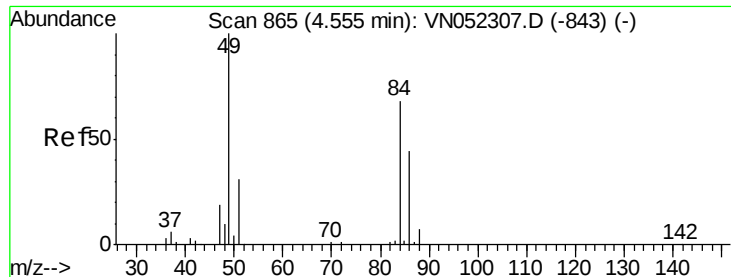
Tgt Ion: 43 Resp: 640

Ion Ratio Lower Upper

43 100

74 4.7 15.9 23.9#

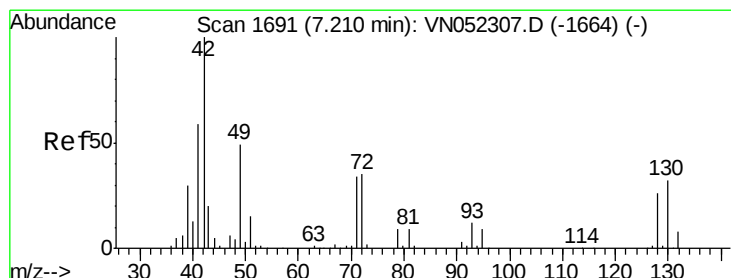
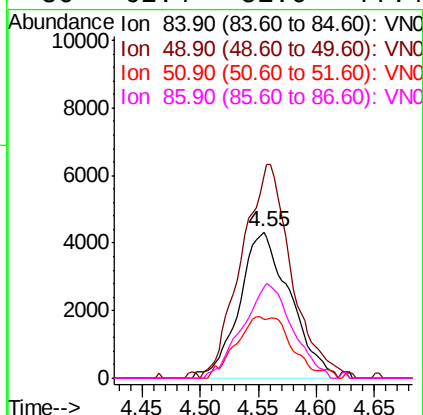
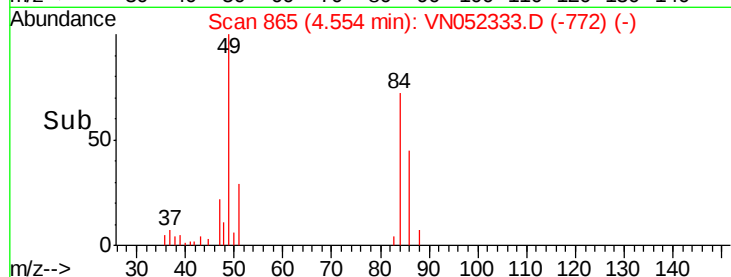
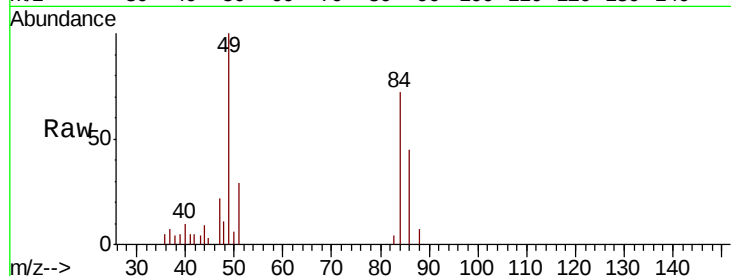




#20
Methvlene Chloride
Concen: 2.561 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052333.D
Acq: 15 Nov 2018 10:50

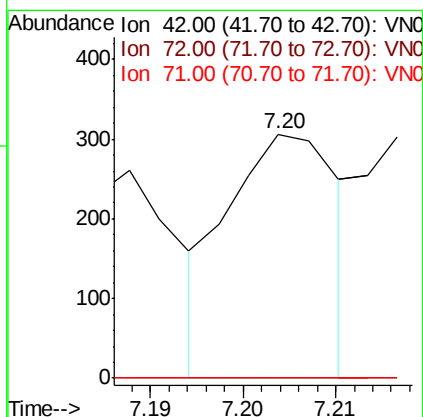
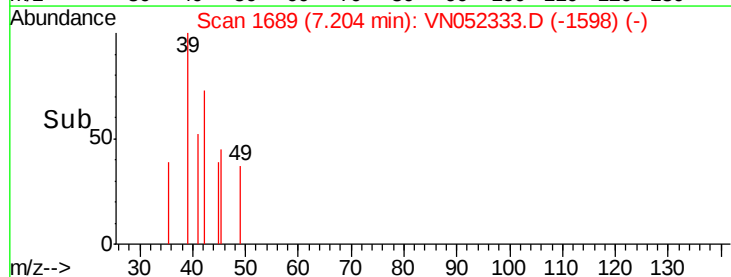
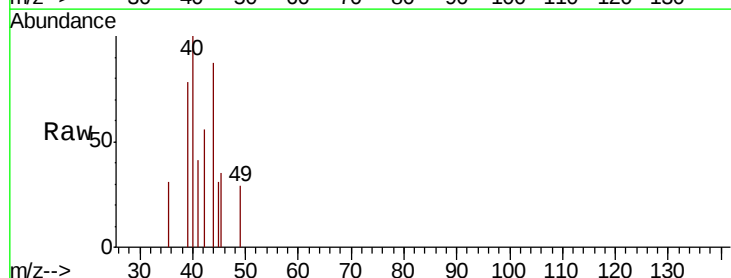
Instrument :
MSVOA_N
ClientSampled :

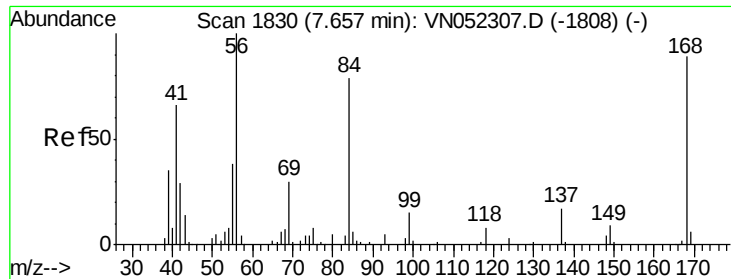
Tot Ion:	84	Resp:	13161
Ion	Ratio	Lower	Upper
84	100		
49	135.1	118.2	177.2
51	40.7	36.1	54.1
86	62.4	51.6	77.4



#29
Tetrahydrofuran
Concen: 0.202 ug/l
RT: 7.20 min Scan# 1689
Delta R.T. -0.01 min
Lab File: VN052333.D
Acq: 15 Nov 2018 10:50

Tgt Ion:	42	Resp:	251
Ion	Ratio	Lower	Upper
42	100		
72	0.0	28.6	42.8#
71	0.0	26.7	40.1#

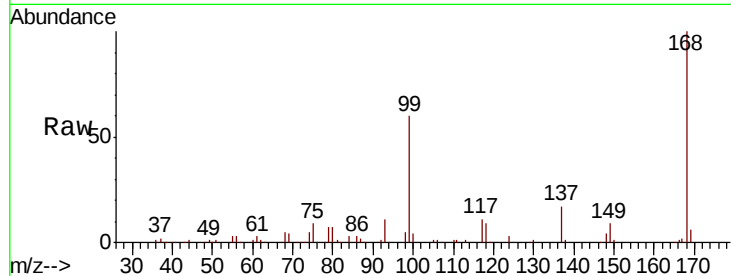




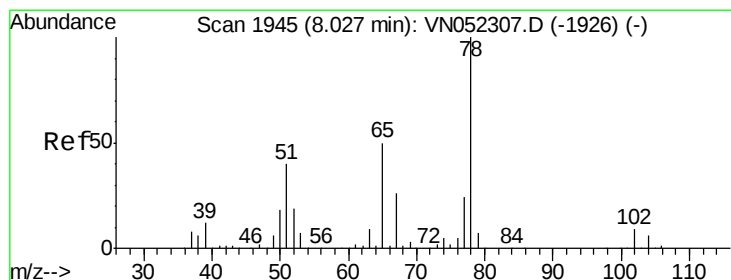
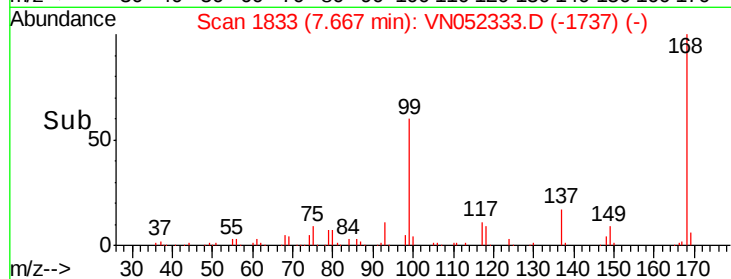
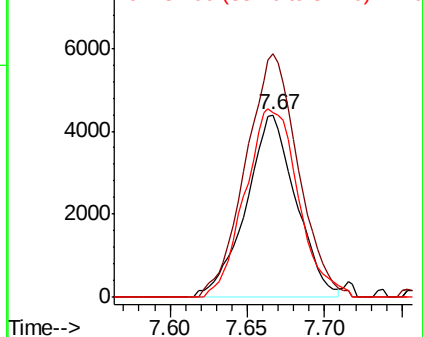
#31
Cyclohexane
Concen: 0.280 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN052333.D
Acq: 15 Nov 2018 10:50

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 9884
Ion Ratio Lower Upper
56 100
69 133.5 23.8 35.8#
84 101.2 63.0 94.6#

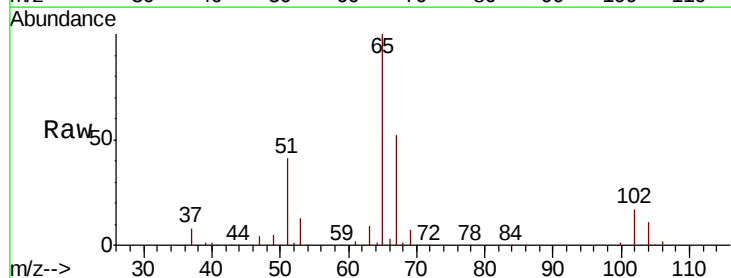


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

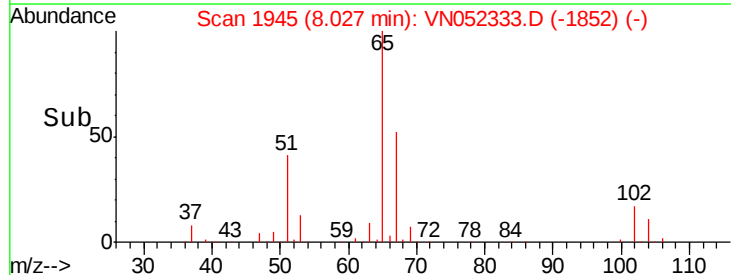
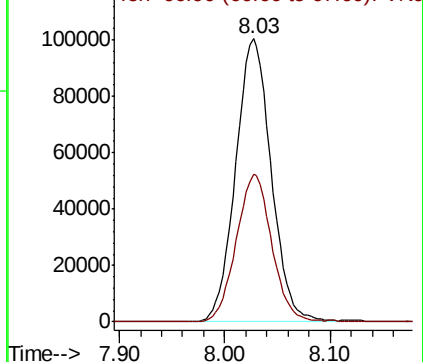


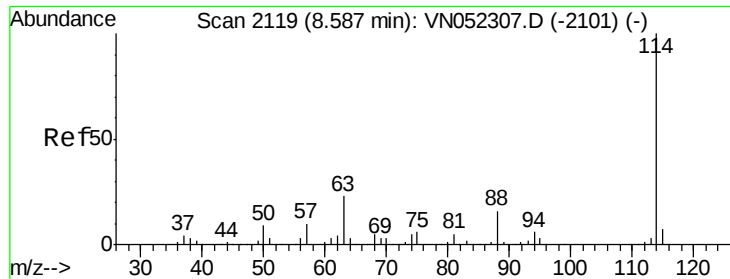
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN052333.D
Acq: 15 Nov 2018 10:50

Tgt Ion: 65 Resp: 235357
Ion Ratio Lower Upper
65 100
67 51.9 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

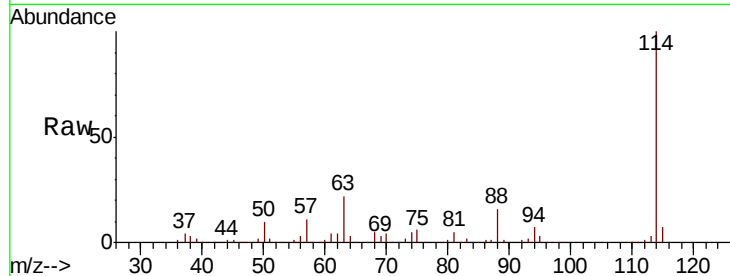




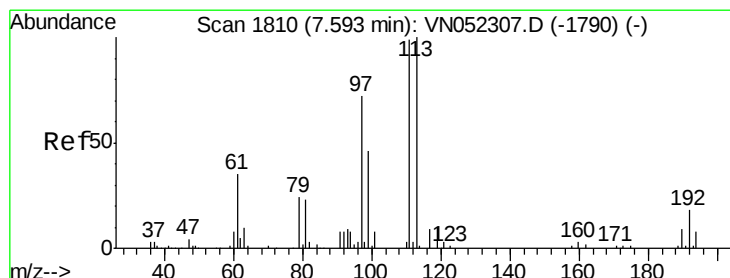
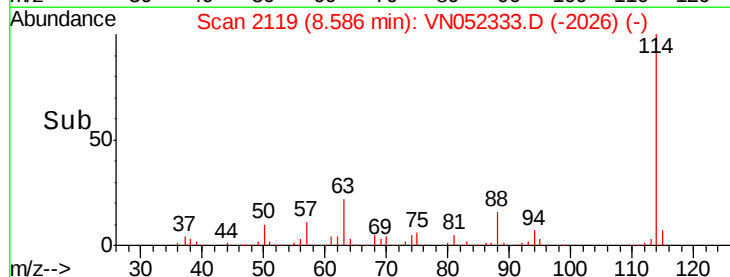
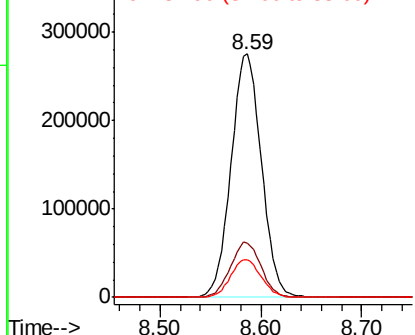
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052333.D
 Acq: 15 Nov 2018 10:50

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 576654
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 45.4
 88 15.6 0.0 31.2

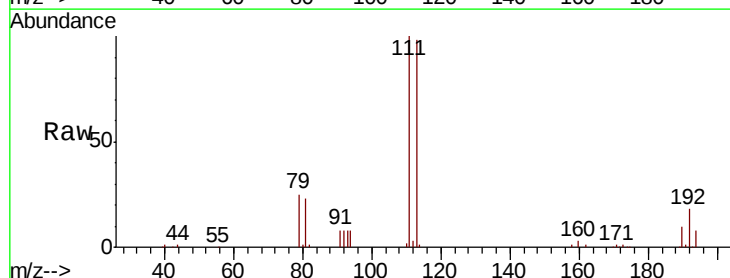


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

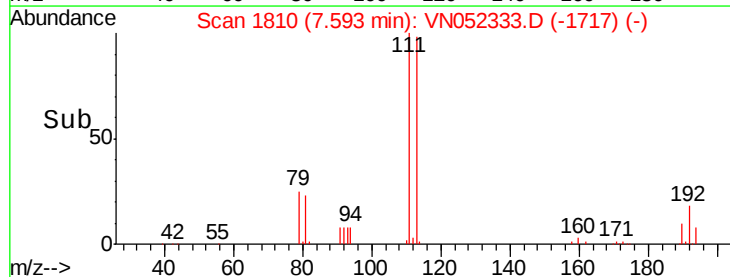
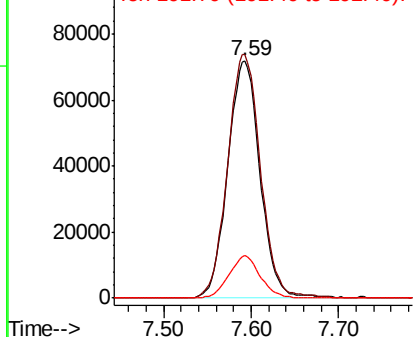


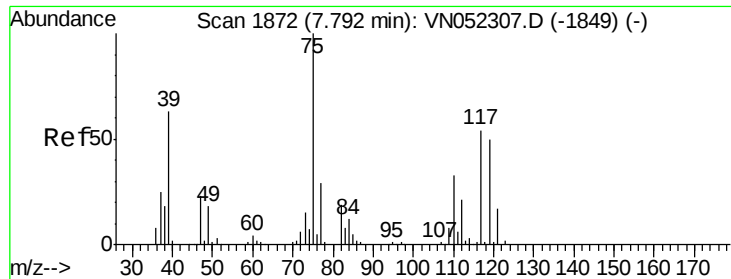
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN052333.D
 Acq: 15 Nov 2018 10:50

Tgt Ion:113 Resp: 184440
 Ion Ratio Lower Upper
 113 100
 111 104.5 81.0 121.6
 192 17.2 13.8 20.6



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

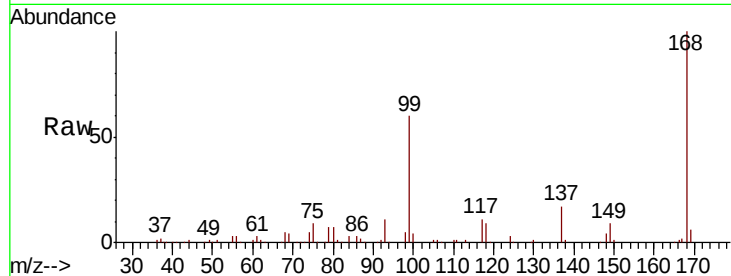




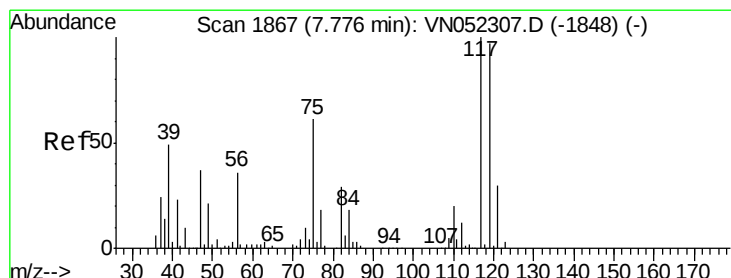
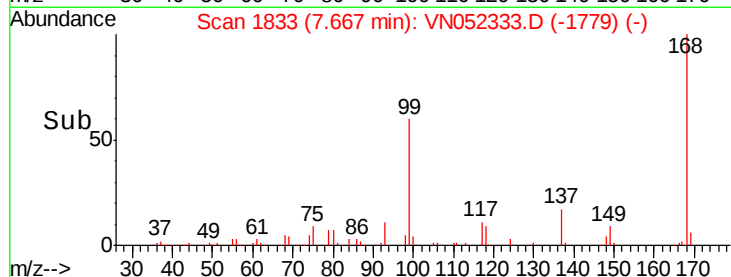
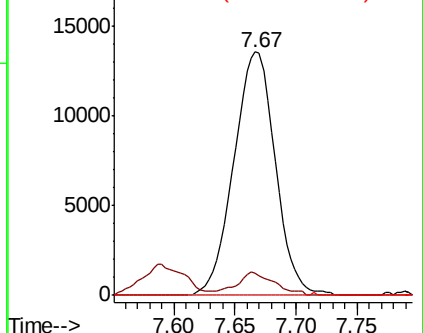
#36
 1,1-Dichloropropene
 Concen: 5.523 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052333.D
 Acq: 15 Nov 2018 10:50

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.7	16.5	49.5#
77	0.0	24.2	36.2#

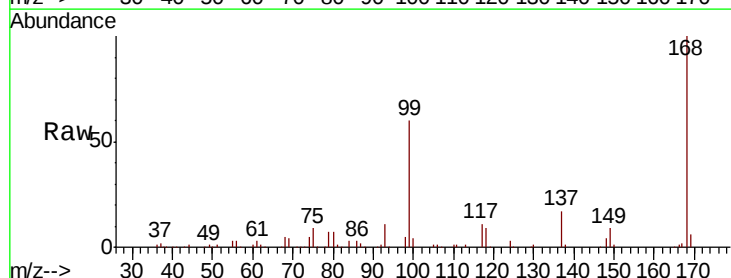


Abundance Ion 74.90 (74.60 to 75.60): VN052307.D (-1849) (-)
 Ion 109.90 (109.60 to 110.60): VN052307.D (-1849) (-)
 Ion 76.90 (76.60 to 77.60): VN052307.D (-1849) (-)

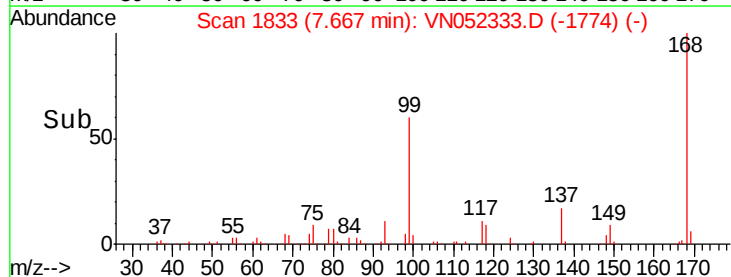
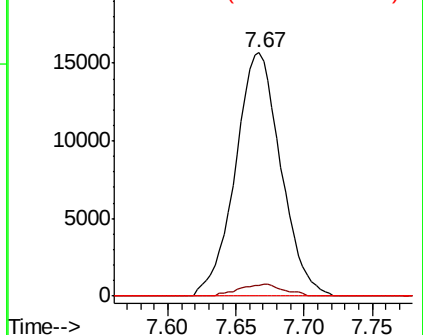


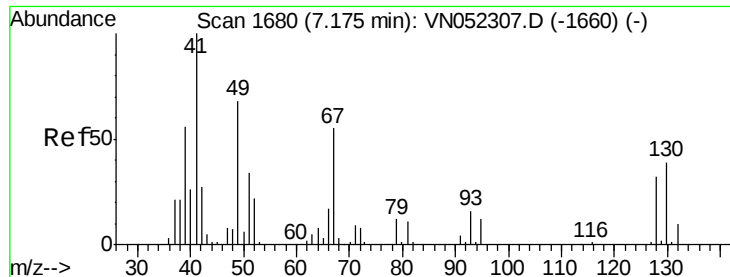
#38
 Carbon Tetrachloride
 Concen: 6.821 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN052333.D
 Acq: 15 Nov 2018 10:50

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.5	77.4	116.0#
121	0.0	24.0	36.0#



Abundance Ion 116.80 (116.50 to 117.50): VN052307.D (-1848) (-)
 Ion 118.80 (118.50 to 119.50): VN052307.D (-1848) (-)
 Ion 120.80 (120.50 to 121.50): VN052307.D (-1848) (-)

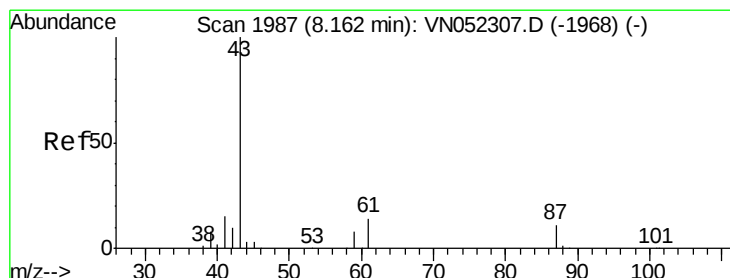
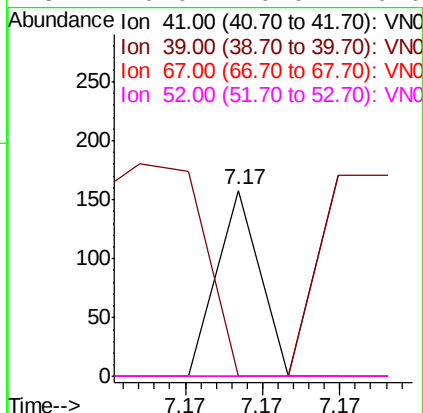
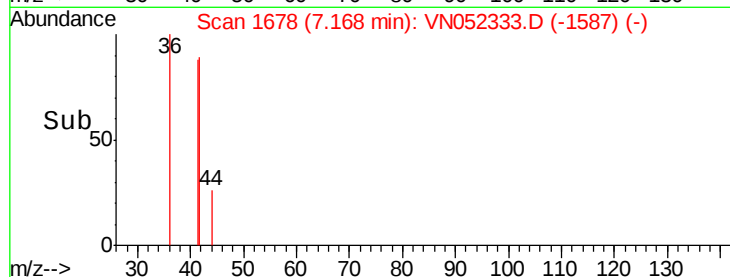
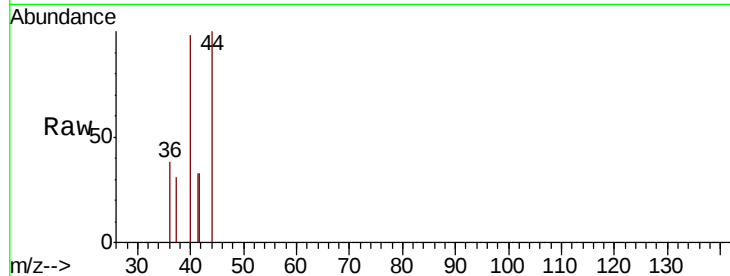




#41
Methacrylonitrile
Concen: 3.707 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. -0.01 min
Lab File: VN052333.D
Acq: 15 Nov 2018 10:50

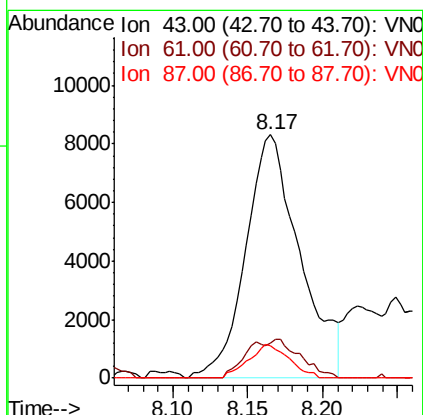
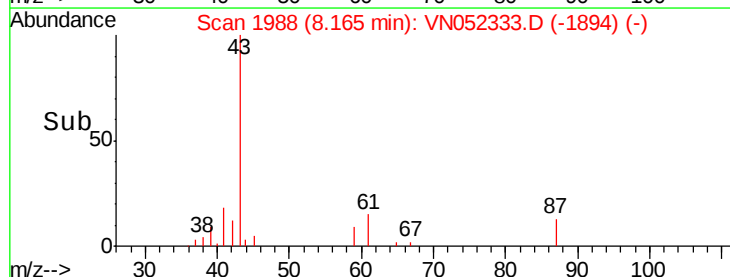
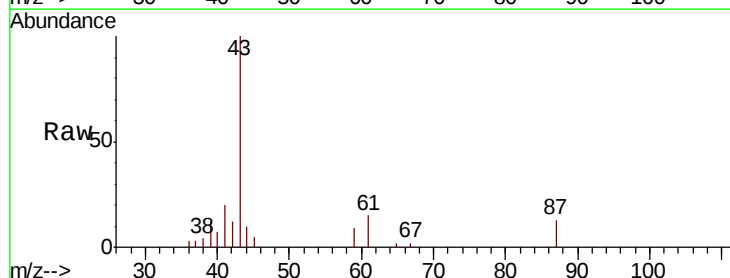
Instrument :
MSVOA_N
ClientSampled :

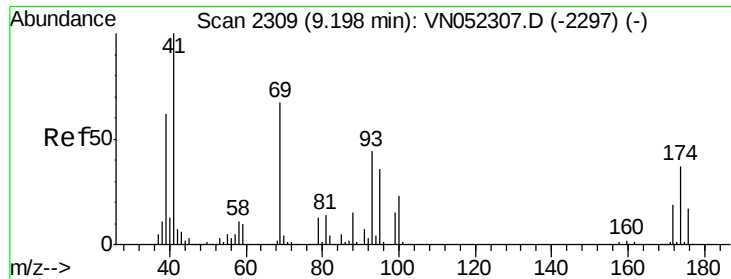
Tot Ion: 41 Resp: 30
Ion Ratio Lower Upper
41 100
39 220.0 0.0 0.0#
67 0.0 0.0 0.0
52 0.0 0.0 0.0



#43
Isopropyl Acetate
Concen: 2.585 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN052333.D
Acq: 15 Nov 2018 10:50

Tgt Ion: 43 Resp: 20924
Ion Ratio Lower Upper
43 100
61 6.5 12.0 18.0#
87 10.4 8.3 12.5

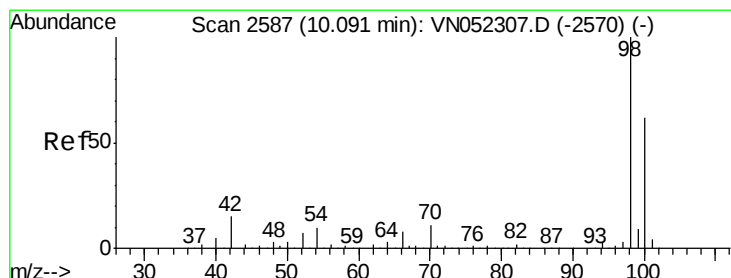
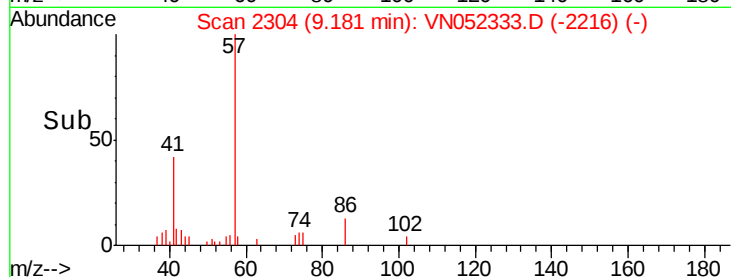
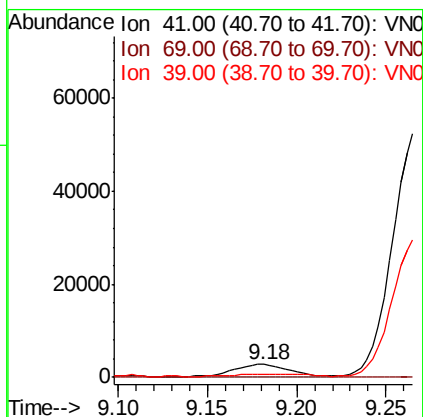
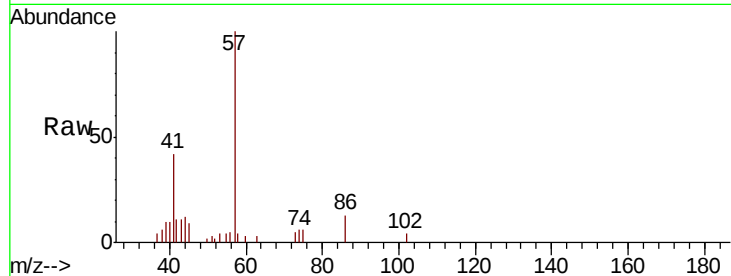




#48
Methvl methacrylate
Concen: 1.362 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN052333.D
Acq: 15 Nov 2018 10:50

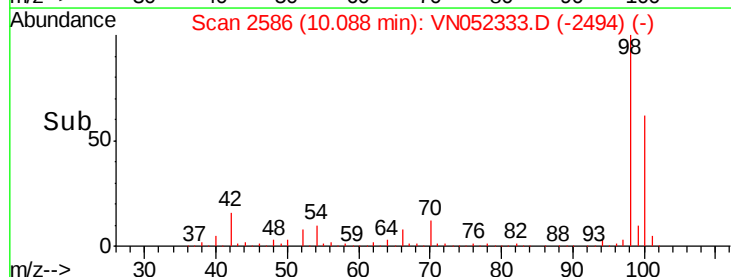
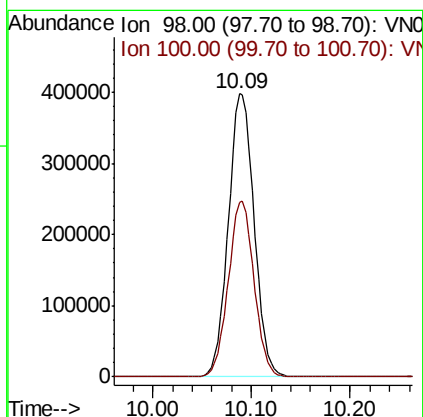
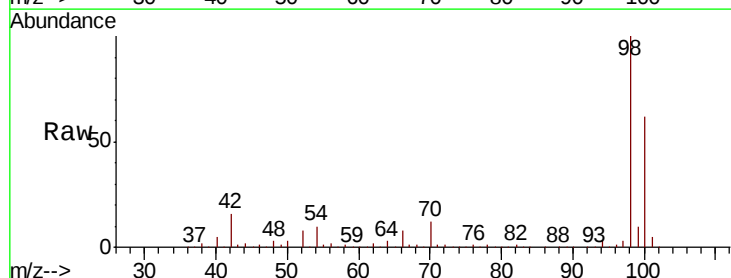
Instrument :
MSVOA_N
ClientSampleId :

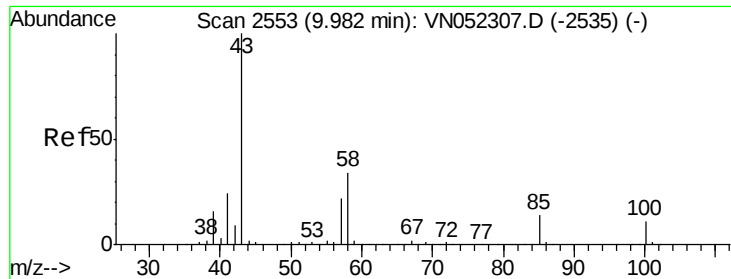
Tot Ion: 41 Resp: 5596
Ion Ratio Lower Upper
41 100
69 0.0 57.1 85.7#
39 0.0 52.5 78.7#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN052333.D
Acq: 15 Nov 2018 10:50

Tgt Ion: 98 Resp: 729120
Ion Ratio Lower Upper
98 100
100 62.0 49.5 74.3





#51

4-Methyl-2-Pentanone

Concen: 1.786 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052333.D

Acq: 15 Nov 2018 10:50

Instrument :

MSVOA_N

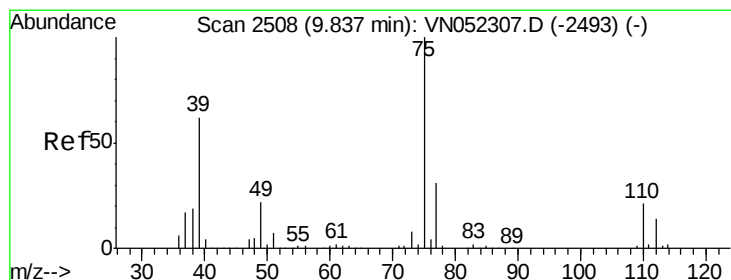
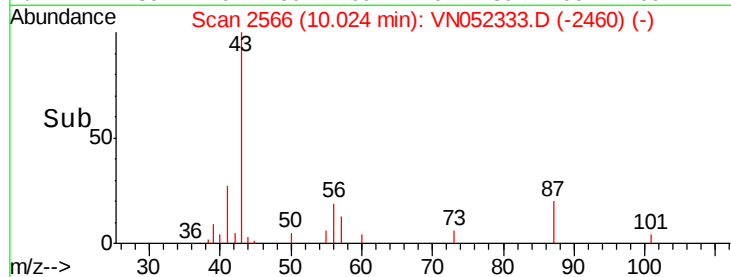
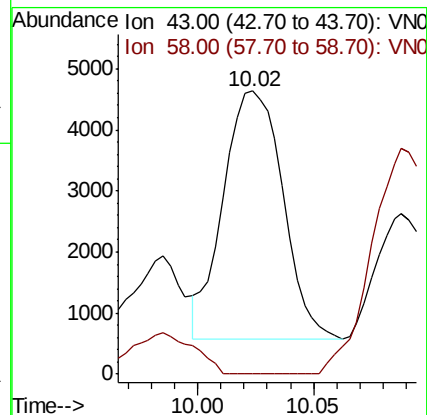
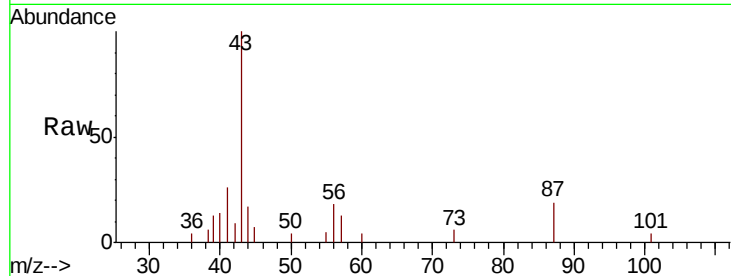
ClientSampled :

Tot Ion: 43 Resp: 7277

Ion Ratio Lower Upper

43 100

58 0.0 27.0 40.6#



#54

cis-1,3-Dichloropropene

Concen: 6.686 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.06 min

Lab File: VN052333.D

Acq: 15 Nov 2018 10:50

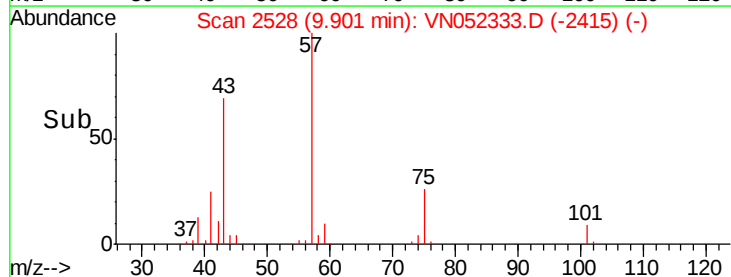
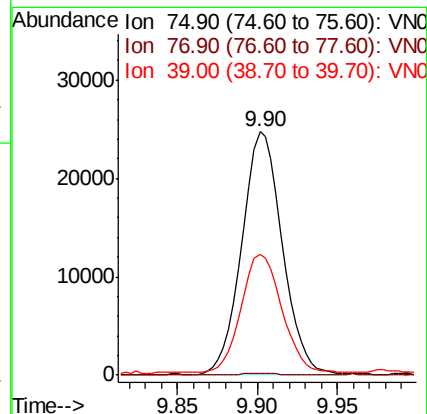
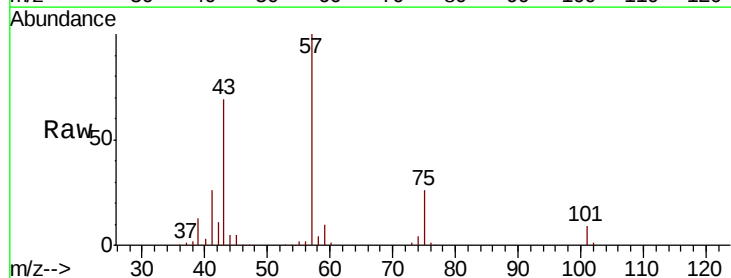
Tgt Ion: 75 Resp: 42790

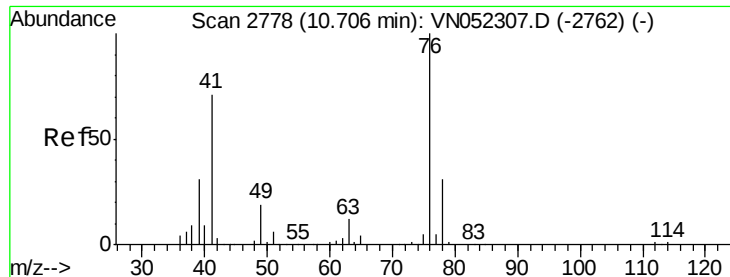
Ion Ratio Lower Upper

75 100

77 0.7 24.6 36.8#

39 48.6 49.9 74.9#

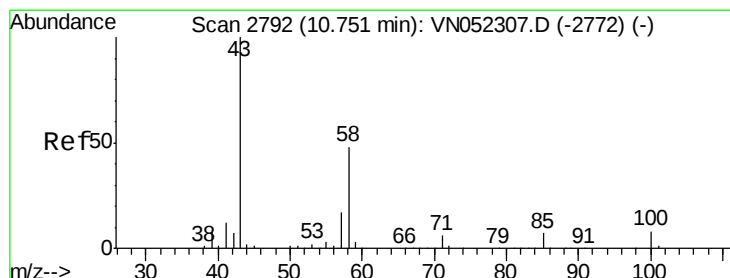
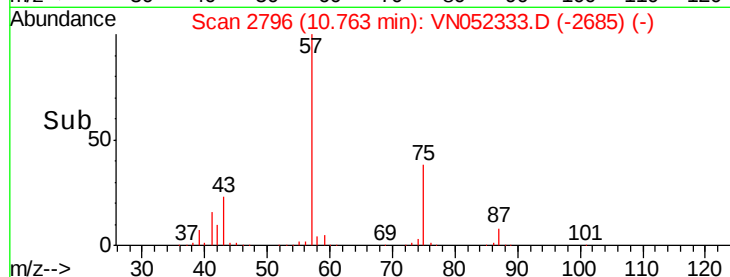
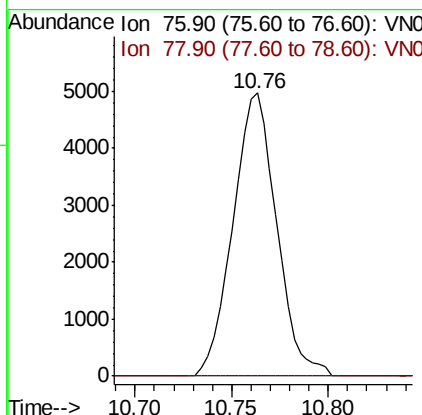
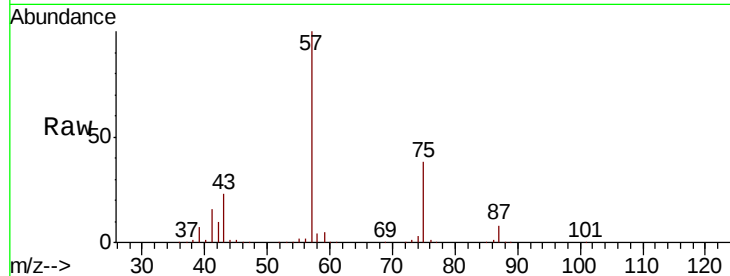




#57
 1,3-Dichloropropane
 Concen: 1.232 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN052333.D
 Acq: 15 Nov 2018 10:50

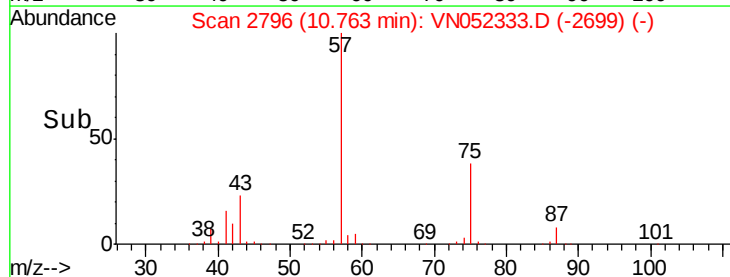
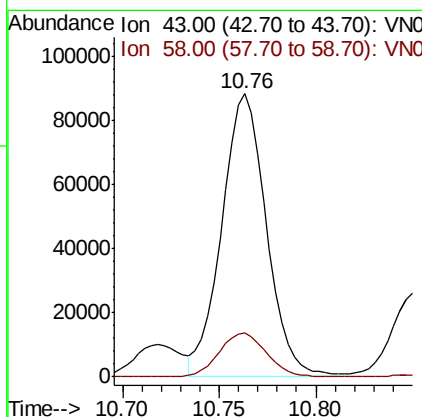
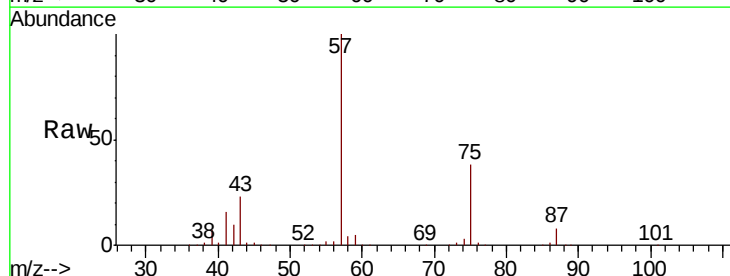
Instrument :
 MSVOA_N
 ClientSampled :

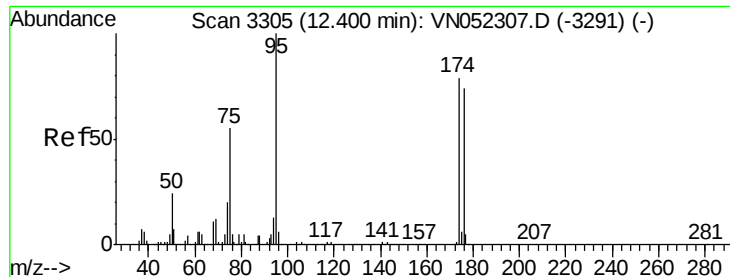
Tot Ion: 76 Resp: 7812
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#59
 2-Hexanone
 Concen: 50.296 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN052333.D
 Acq: 15 Nov 2018 10:50

Tgt Ion: 43 Resp: 140956
 Ion Ratio Lower Upper
 43 100
 58 16.7 23.5 70.6#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052333.D

Acq: 15 Nov 2018 10:50

Instrument :

MSVOA_N

ClientSampleId :

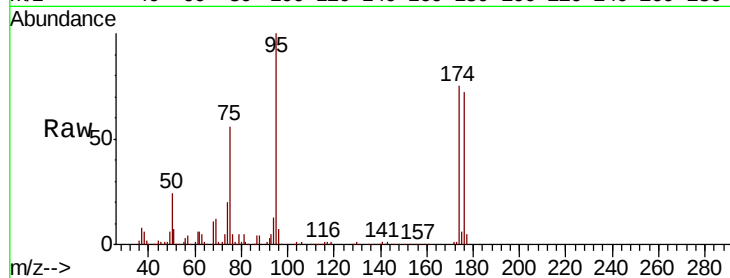
Tot Ion: 95 Resp: 213637

Ion Ratio Lower Upper

95 100

174 75.6 0.0 156.0

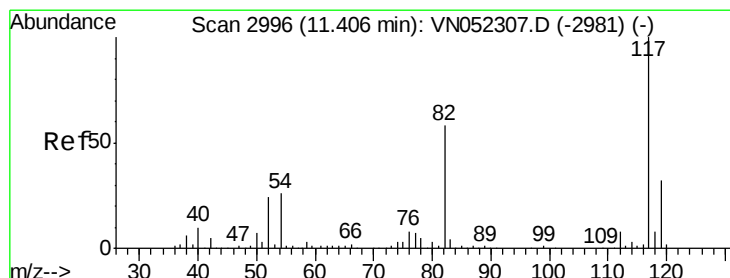
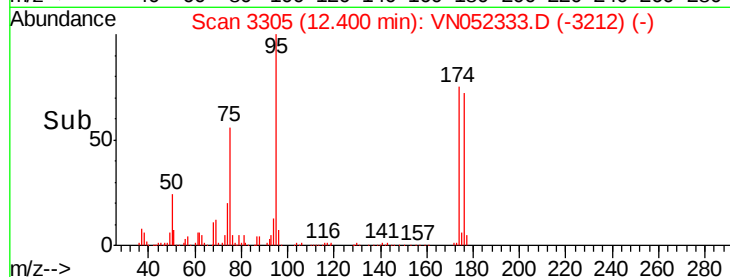
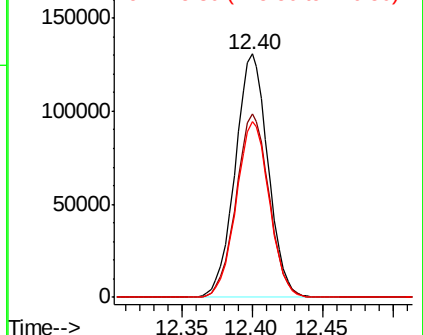
176 72.6 0.0 148.4



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# 2996

Delta R.T. -0.00 min

Lab File: VN052333.D

Acq: 15 Nov 2018 10:50

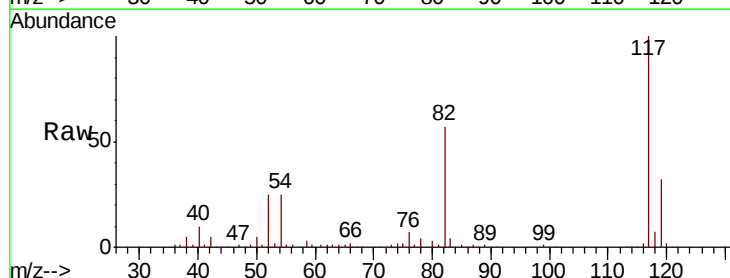
Tgt Ion: 117 Resp: 494098

Ion Ratio Lower Upper

117 100

82 57.4 46.5 69.7

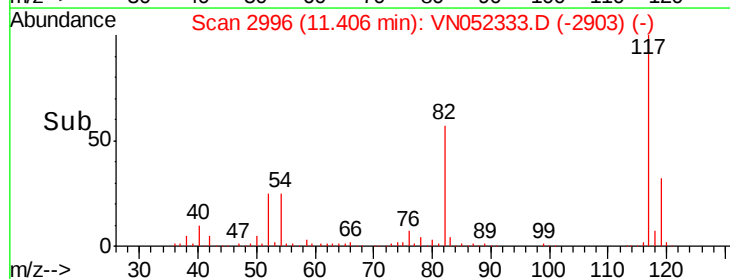
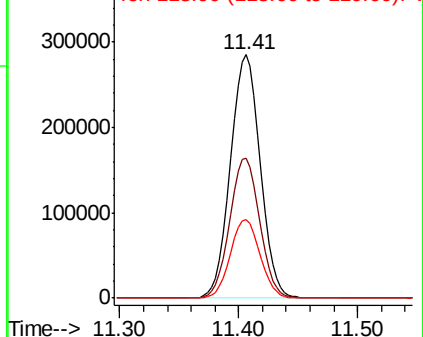
119 32.3 25.7 38.5

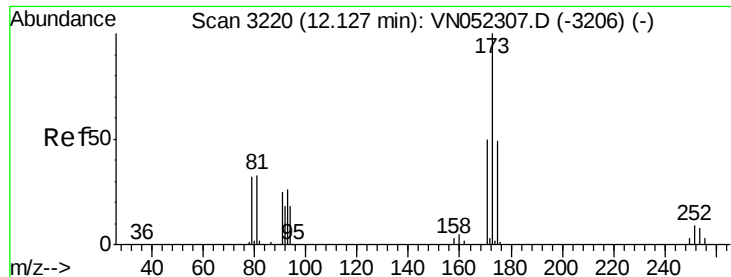


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.900 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN052333.D

Acq: 15 Nov 2018 10:50

Instrument :

MSVOA_N

ClientSampled :

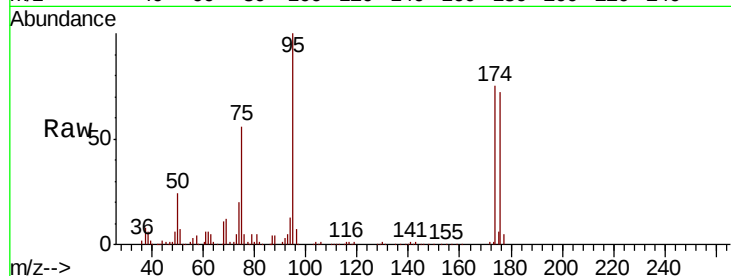
Tot Ion:173 Resp: 1893

Ion Ratio Lower Upper

173 100

175 636.8 25.0 75.0#

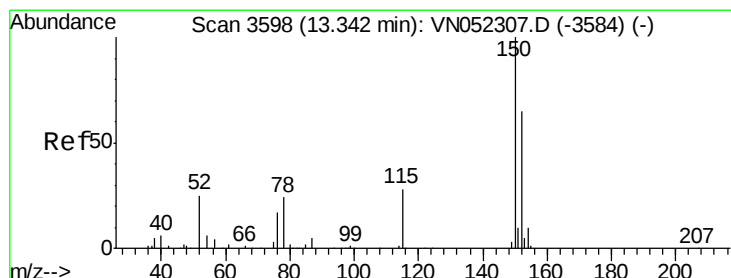
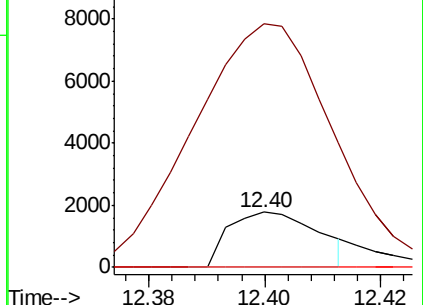
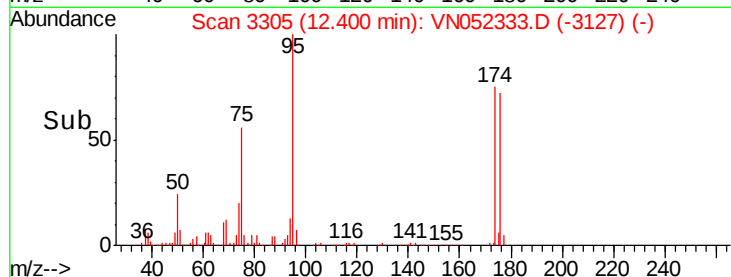
254 0.0 0.0 0.0



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: VN052333.D

Acq: 15 Nov 2018 10:50

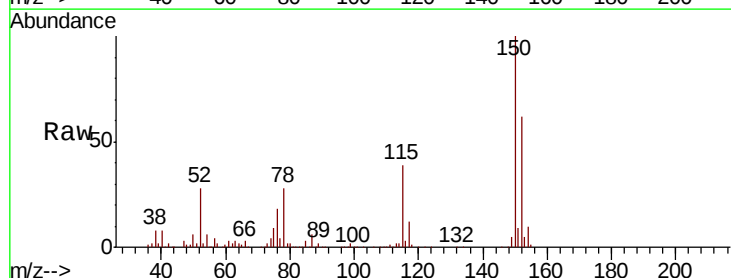
Tgt Ion:152 Resp: 167697

Ion Ratio Lower Upper

152 100

115 62.9 30.3 91.0

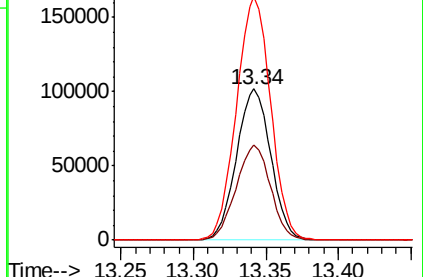
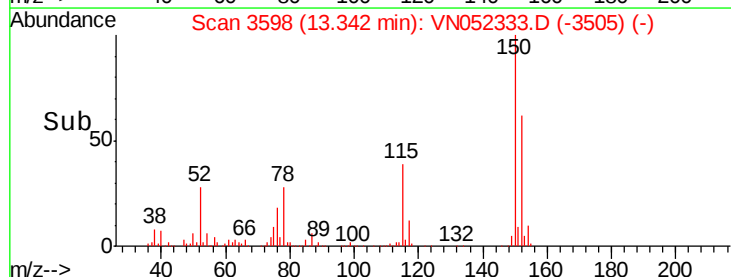
150 160.6 0.0 348.2

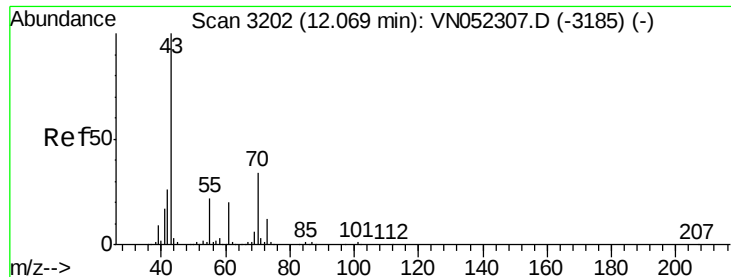


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.320 ug/l

RT: 12.06 min Scan# 3200

Delta R.T. -0.01 min

Lab File: VN052333.D

Acq: 15 Nov 2018 10:50

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 1539

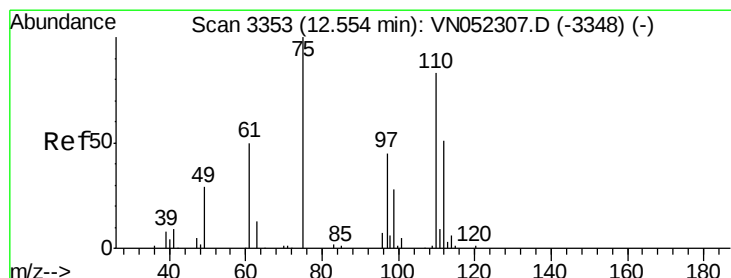
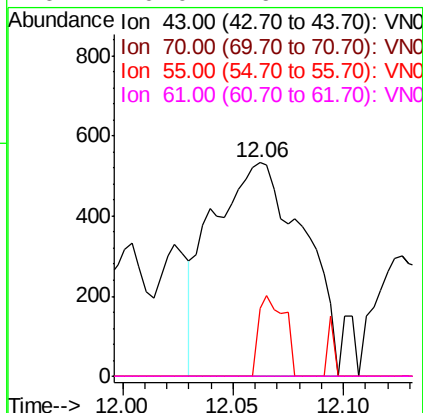
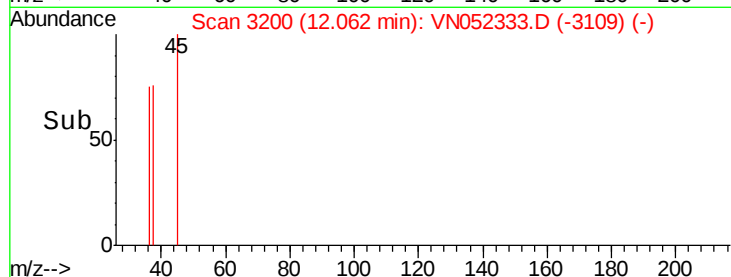
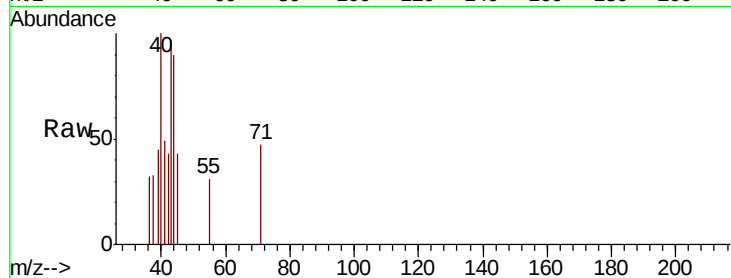
Ion Ratio Lower Upper

43 100

70 0.0 27.1 40.7#

55 10.7 17.4 26.0#

61 0.0 16.1 24.1#



#76

1,2,3-Trichloropropane

Concen: 41.872 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052333.D

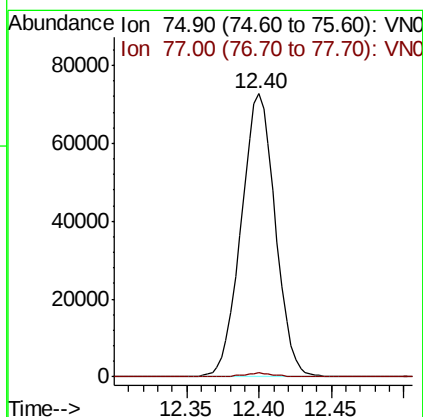
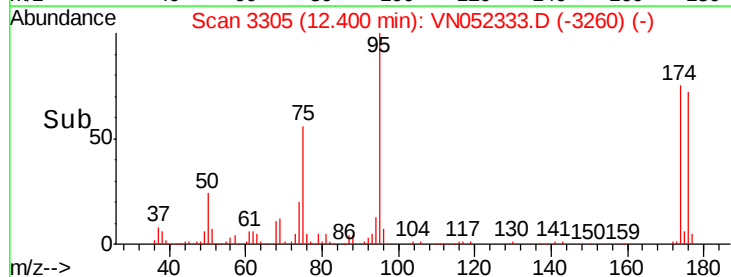
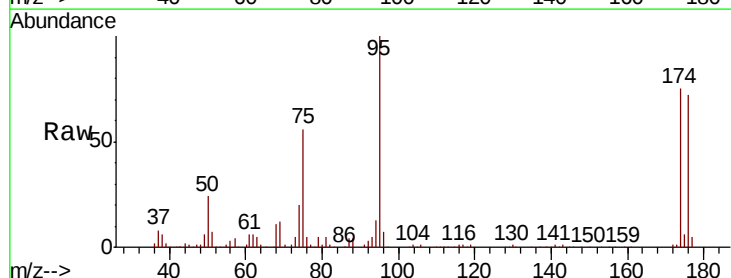
Acq: 15 Nov 2018 10:50

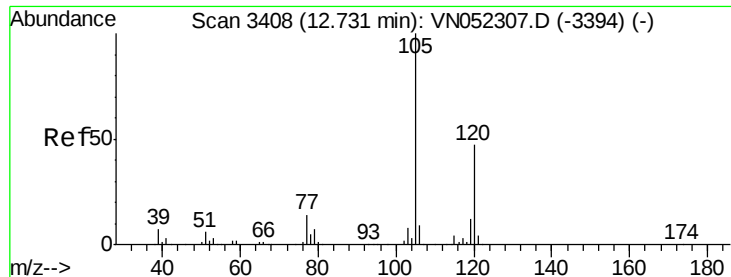
Tgt Ion: 75 Resp: 119147

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#





#80

1,3,5-Trimethylbenzene

Concen: 1.043 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN052333.D

Acq: 15 Nov 2018 10:50

Instrument :

MSVOA_N

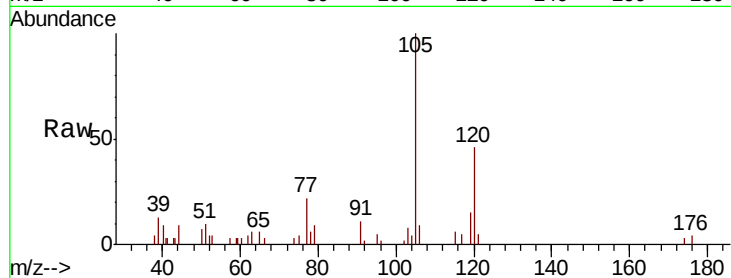
ClientSampleId :

Tot Ion:105 Resp: 11185

Ion Ratio Lower Upper

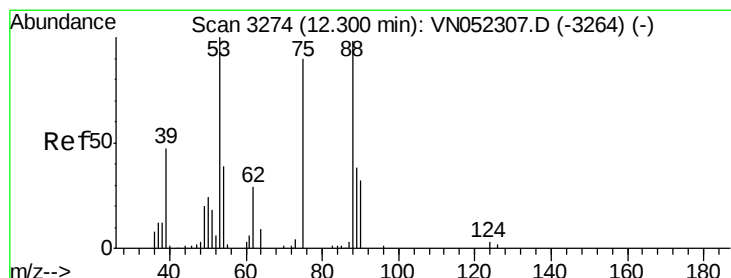
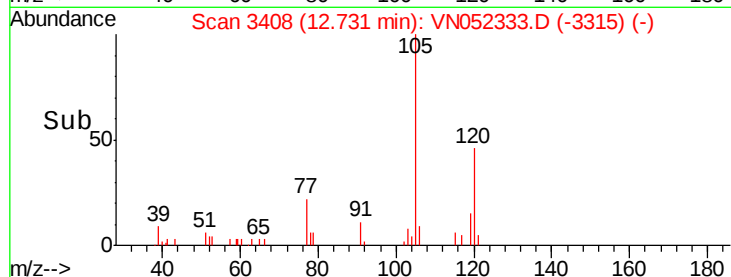
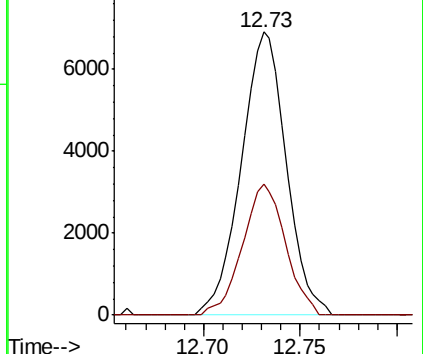
105 100

120 44.2 23.7 71.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 135.807 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052333.D

Acq: 15 Nov 2018 10:50

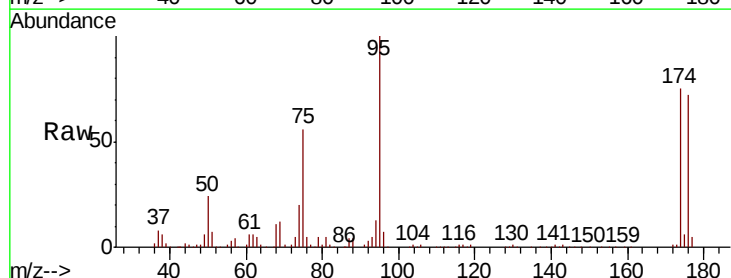
Tgt Ion: 75 Resp: 119147

Ion Ratio Lower Upper

75 100

53 0.1 90.2 135.2#

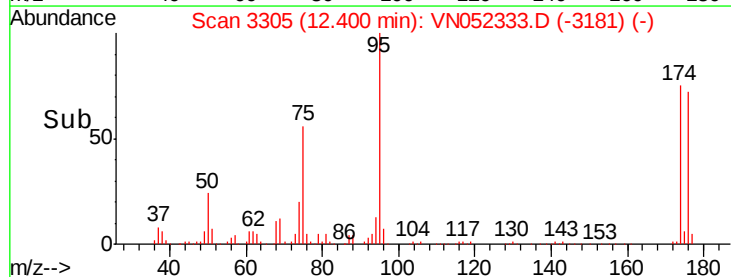
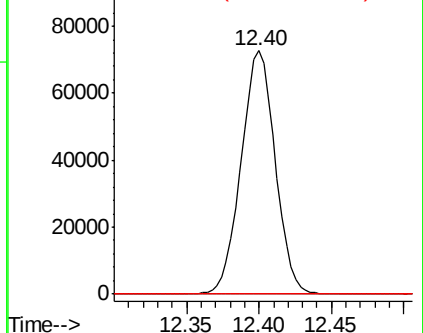
89 0.0 35.4 53.0#

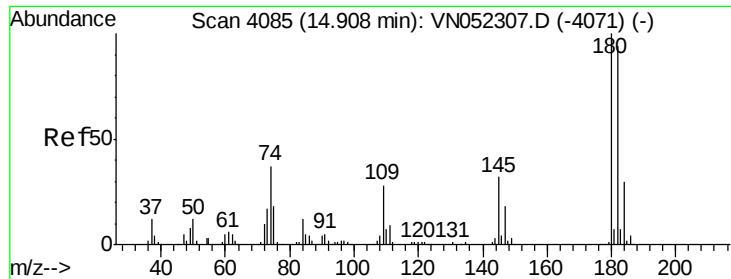


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

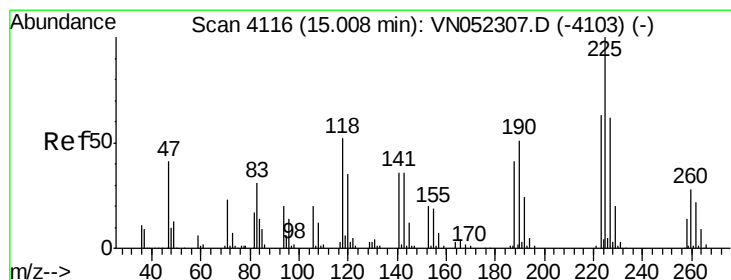
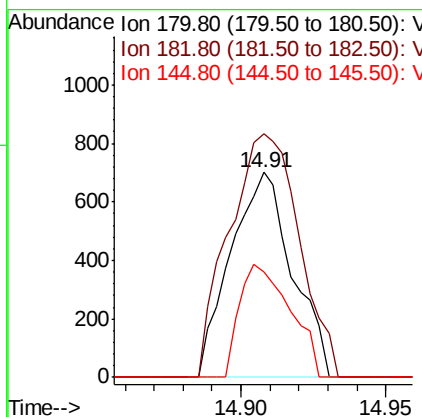
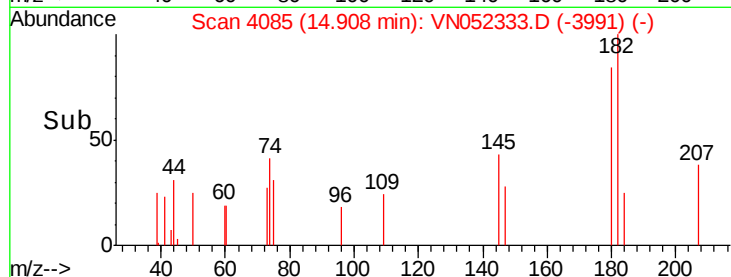
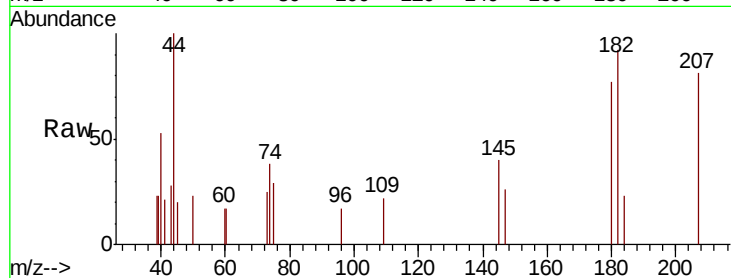




#93
 1,2,4-Trichlorobenzene
 Concen: 2.650 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN052333.D
 Acq: 15 Nov 2018 10:50

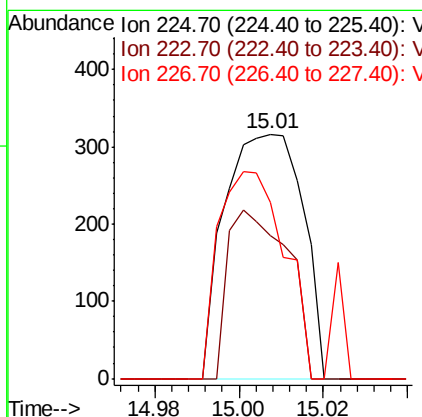
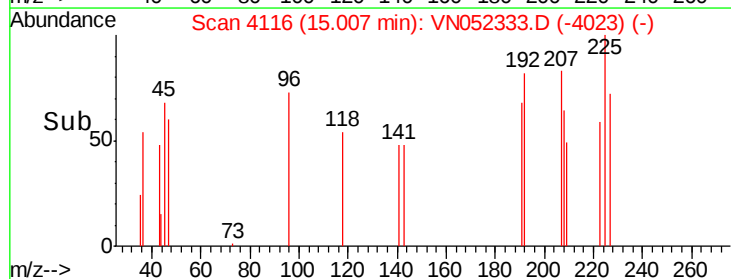
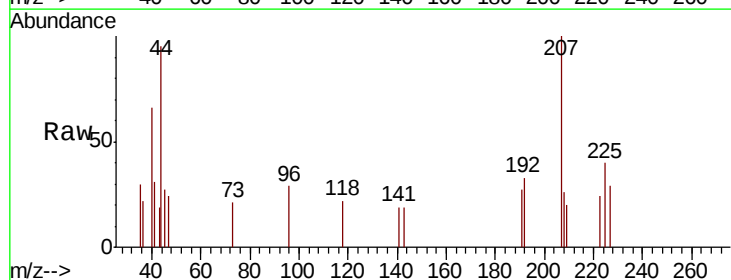
Instrument :
 MSVOA_N
 ClientSampled :

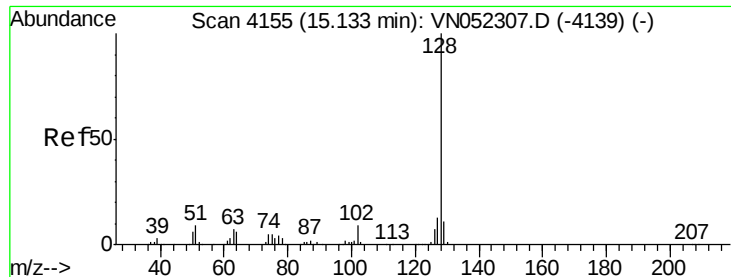
Tot Ion:180 Resp: 1035
 Ion Ratio Lower Upper
 180 100
 182 135.4 47.6 142.9
 145 45.3 15.5 46.5



#94
 Hexachlorobutadiene
 Concen: 0.329 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN052333.D
 Acq: 15 Nov 2018 10:50

Tgt Ion:225 Resp: 407
 Ion Ratio Lower Upper
 225 100
 223 53.3 31.9 95.5
 227 71.7 31.6 95.0

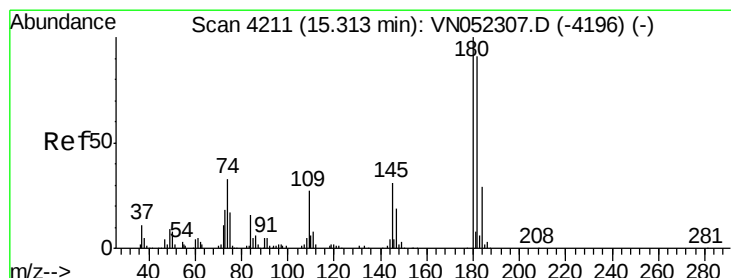
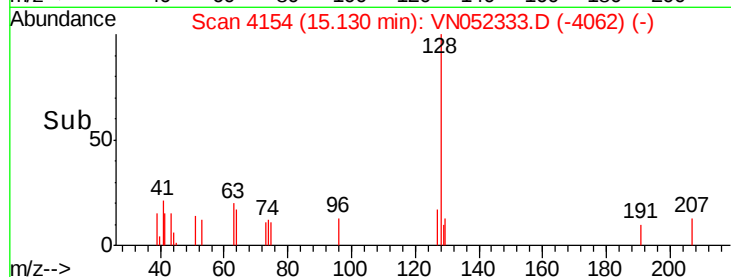
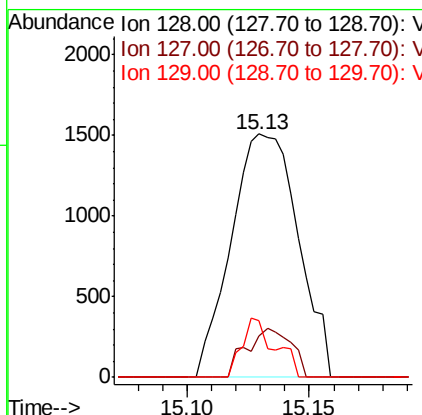
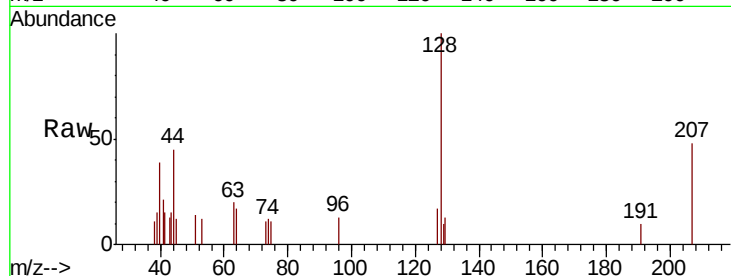




#95
Naphthalene
Concen: 3.063 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.00 min
Lab File: VN052333.D
Acq: 15 Nov 2018 10:50

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:128 Resp: 2869
Ion Ratio Lower Upper
128 100
127 13.5 10.4 15.6
129 11.9 8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 0.376 ug/l
RT: 15.30 min Scan# 4208
Delta R.T. -0.01 min
Lab File: VN052333.D
Acq: 15 Nov 2018 10:50

Tgt Ion:180 Resp: 772
Ion Ratio Lower Upper
180 100
182 126.3 46.5 139.3
145 55.7 16.4 49.2#

