

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN112018\
 Data File : VN052409.D
 Acq On : 20 Nov 2018 15:58
 Operator : MD\SY
 Sample : PB114952ZHE#03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114952ZHE#03

Quant Time: Nov 21 11:19:41 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	296493	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	498841	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	434373	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	150176	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	225012	53.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.46%	
35) Dibromofluoromethane	7.59	113	164373	51.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.18%	
50) Toluene-d8	10.09	98	644820	50.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.90%	
62) 4-Bromofluorobenzene	12.40	95	194669	46.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.50%	

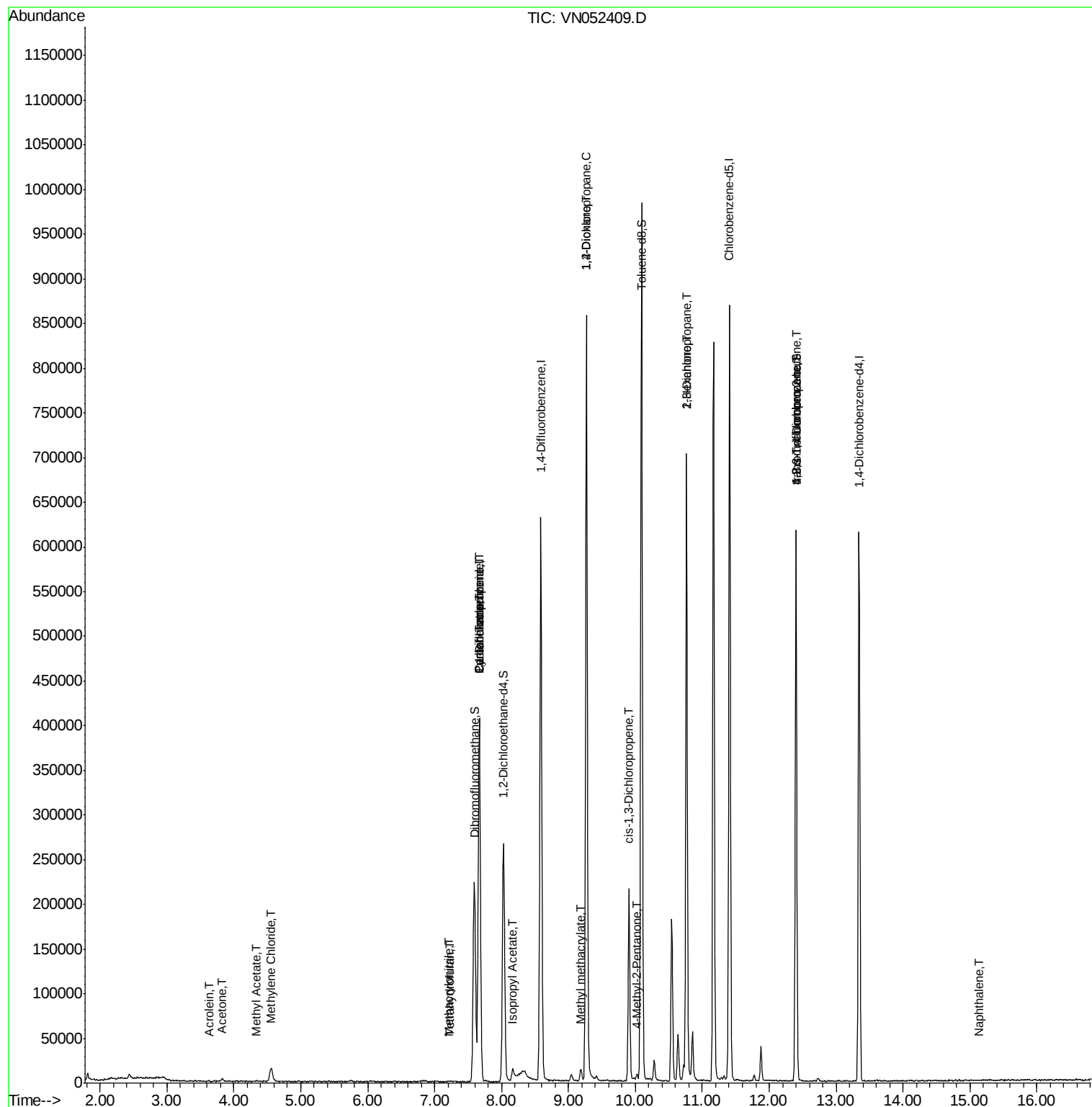
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.62	56	29	21.85	ug/l #	62
16) Acetone	3.82	43	5962	5.17	ug/l #	86
18) Methyl Acetate	4.33	43	1124	0.78	ug/l #	62
20) Methylene Chloride	4.56	84	9737	2.11	ug/l	98
29) Tetrahydrofuran	7.22	42	471	0.44	ug/l #	40
31) Cyclohexane	7.67	56	9400	0.42	ug/l #	42
36) 1,1-Dichloropropene	7.67	75	28633	5.73	ug/l #	51
38) Carbon Tetrachloride	7.67	117	32223	7.01	ug/l #	15
41) Methacrylonitrile	7.21	41	96	3.74	ug/l #	100
43) Isopropyl Acetate	8.17	43	18550	2.65	ug/l	96
45) 1,2-Dichloropropane	9.27	63	1173	0.29	ug/l #	44
48) Methyl methacrylate	9.18	41	5698	1.60	ug/l #	16
49) 1,4-Dioxane	9.27	88	100	3.67	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	6143	1.74	ug/l #	41
54) cis-1,3-Dichloropropene	9.91	75	31607	5.71	ug/l #	78
57) 1,3-Dichloropropane	10.76	76	6528	1.19	ug/l #	43
59) 2-Hexanone	10.76	43	116067	47.88	ug/l #	55
76) 1,2,3-Trichloropropane	12.40	75	110734	43.46	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	110734	140.94	ug/l #	5
95) Naphthalene	15.13	128	105	2.62	ug/l #	69

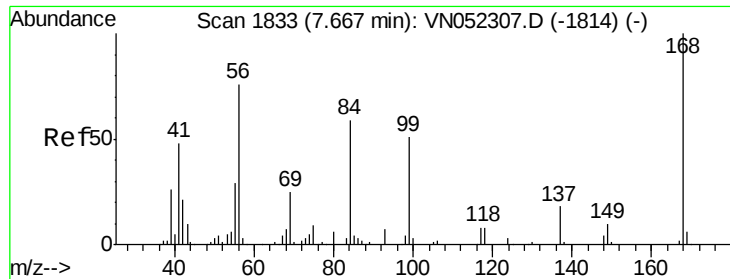
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN052409.D

Acq: 20 Nov 2018 15:58

Instrument :

MSVOA_N

ClientSampleId :

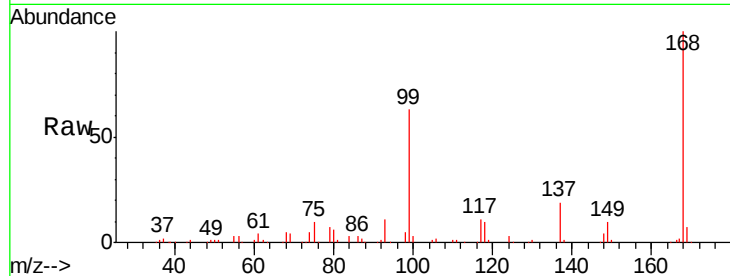
PB114952ZHE#03

Tgt Ion:168 Resp: 296493

Ion Ratio Lower Upper

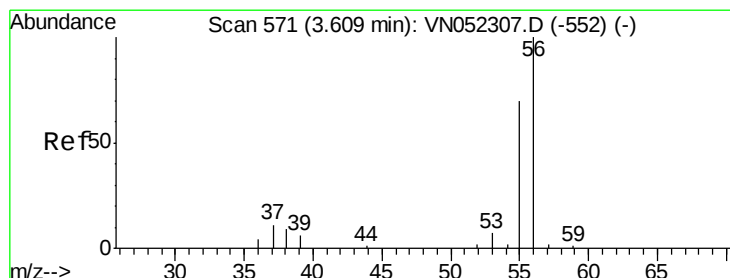
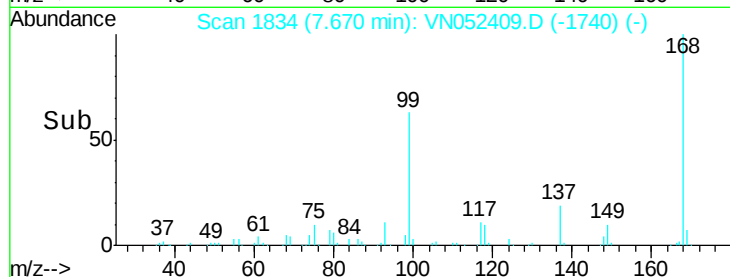
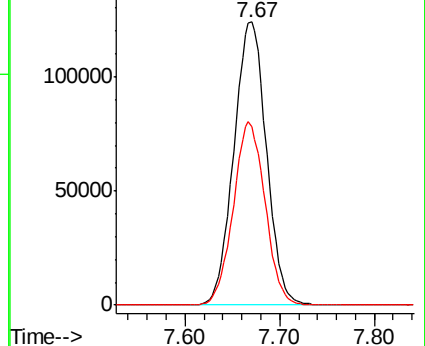
168 100

99 62.9 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#13

Acrolein

Concen: 21.85 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN052409.D

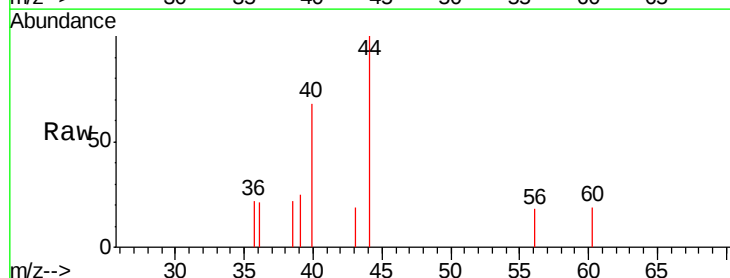
Acq: 20 Nov 2018 15:58

Tgt Ion: 56 Resp: 29

Ion Ratio Lower Upper

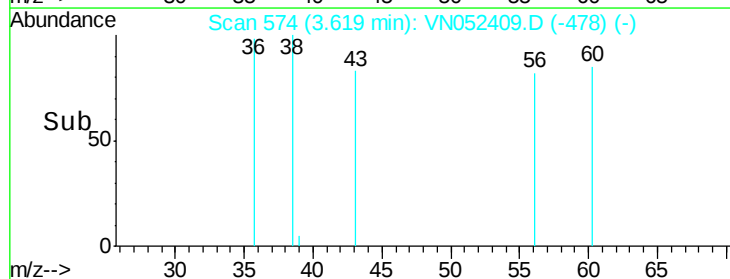
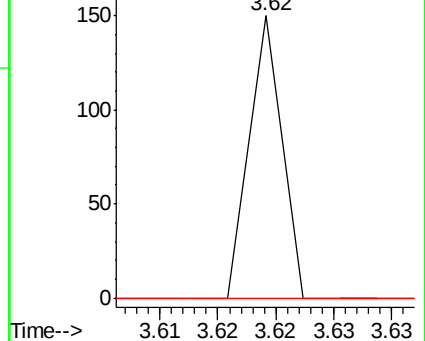
56 100

55 103.4 57.6 86.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 5.17 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN052409.D

Acq: 20 Nov 2018 15:58

Instrument :

MSVOA_N

ClientSampleId :

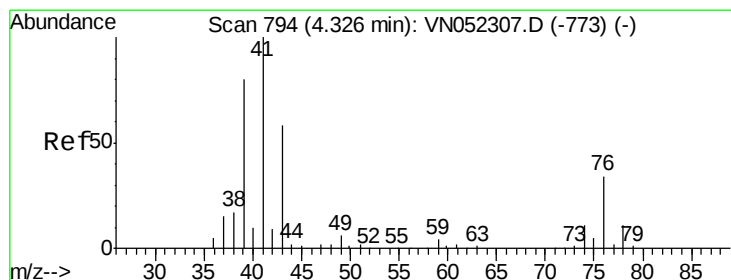
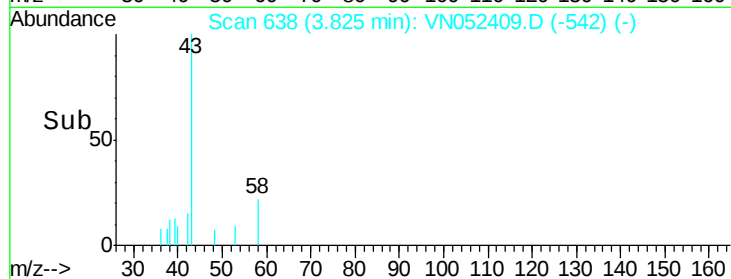
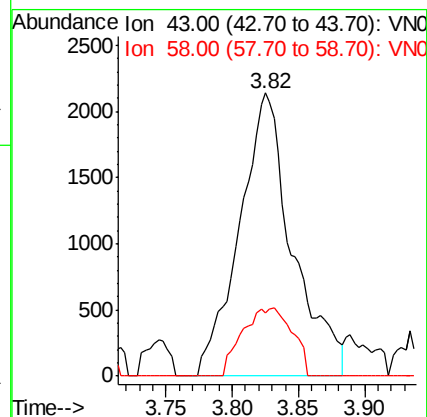
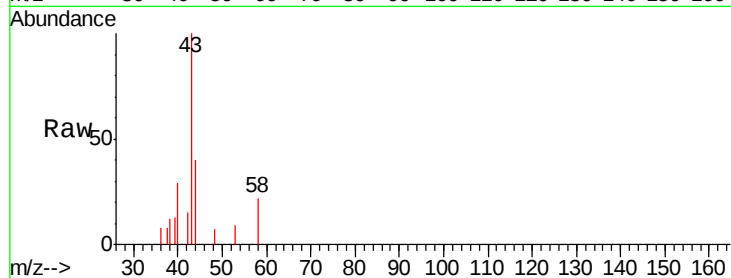
PB114952ZHE#03

Tgt Ion: 43 Resp: 5962

Ion Ratio Lower Upper

43 100

58 22.5 24.2 36.4#



#18

Methyl Acetate

Concen: 0.78 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN052409.D

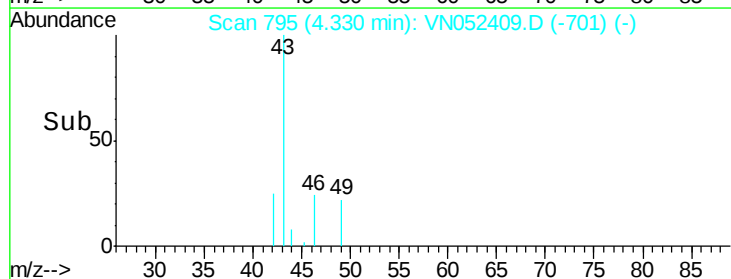
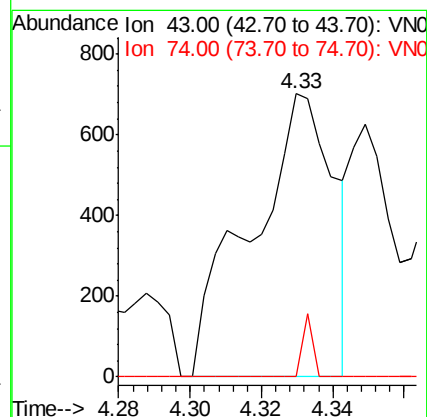
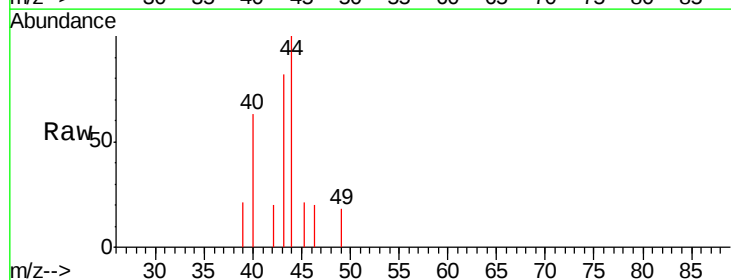
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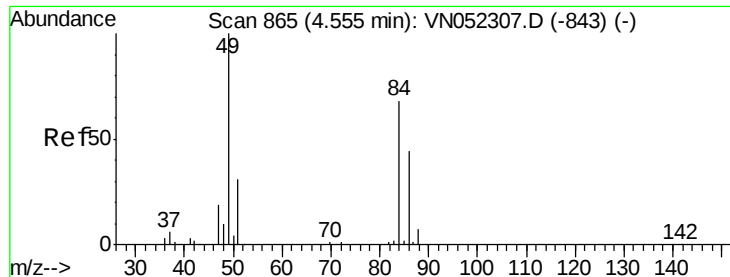
Tgt Ion: 43 Resp: 1124

Ion Ratio Lower Upper

43 100

74 2.7 15.9 23.9#

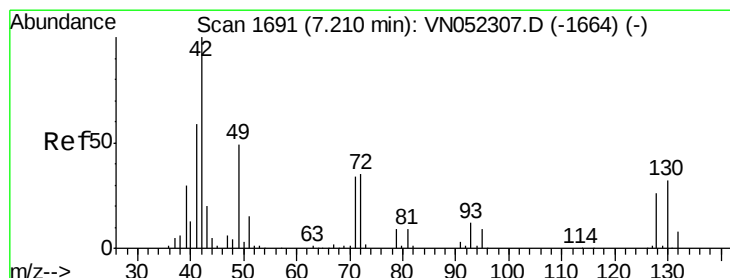
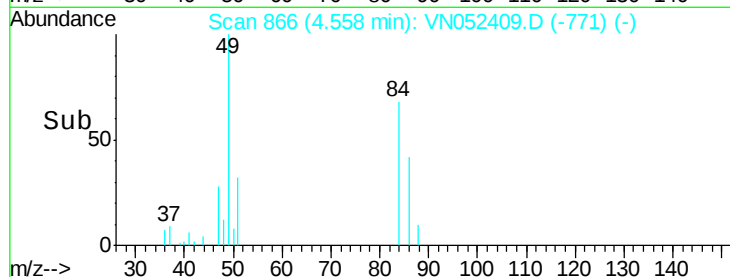
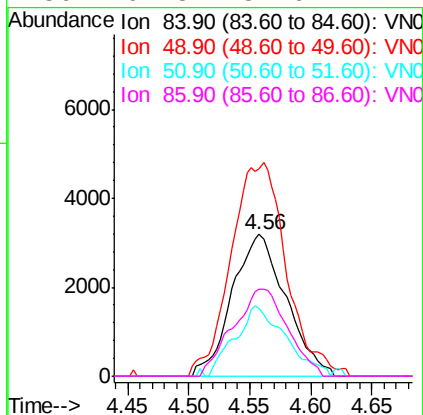
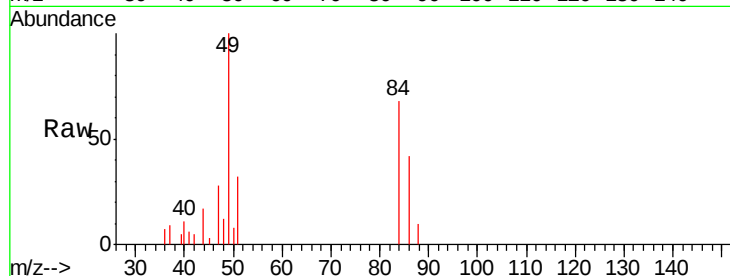




#20
Methylene Chloride
Concen: 2.11 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052409.D
Acq: 20 Nov 2018 15:58

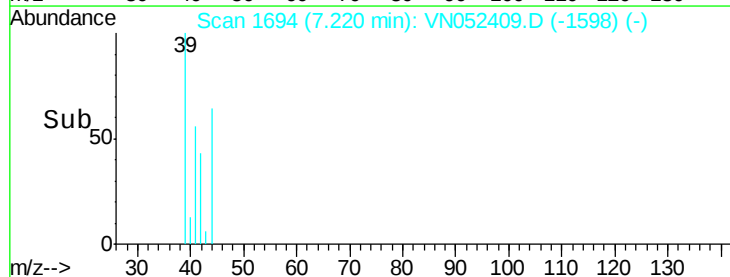
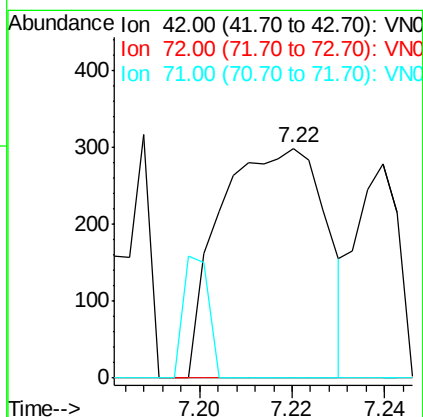
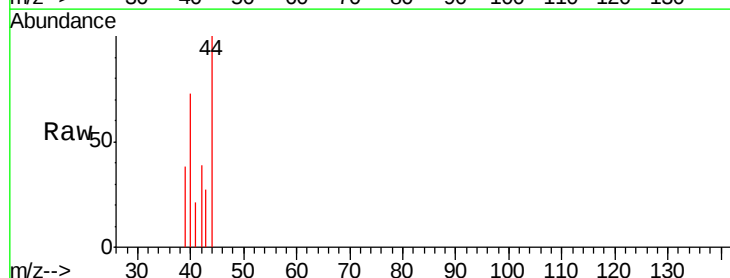
Instrument :
MSVOA_N
ClientSampleId :
PB114952ZHE#03

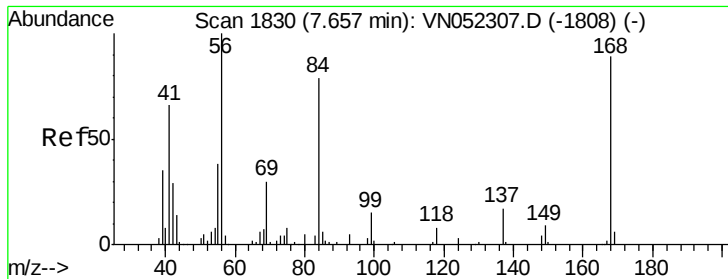
Tgt Ion:	84	Resp:	9737
Ion	Ratio	Lower	Upper
84	100		
49	146.6	118.2	177.2
51	47.6	36.1	54.1
86	61.8	51.6	77.4



#29
Tetrahydrofuran
Concen: 0.44 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN052409.D
Acq: 20 Nov 2018 15:58

Tgt Ion:	42	Resp:	471
Ion	Ratio	Lower	Upper
42	100		
72	0.0	28.6	42.8#
71	0.0	26.7	40.1#

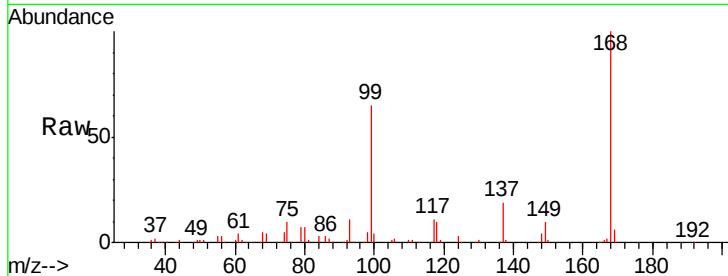




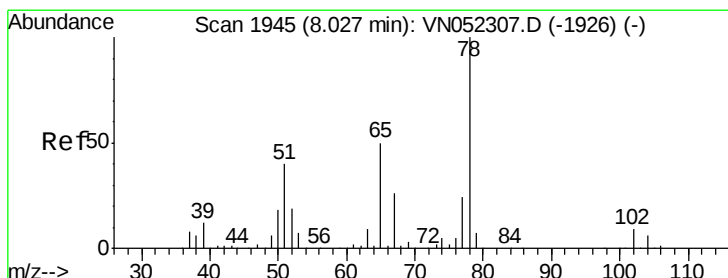
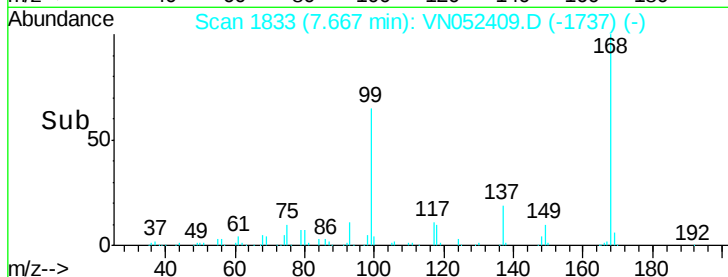
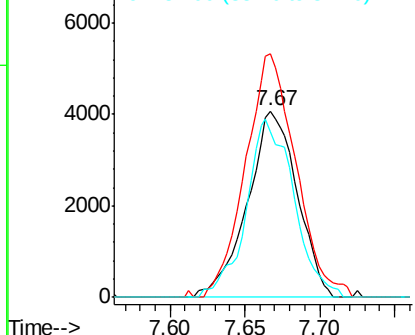
#31
Cyclohexane
Concen: 0.42 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN052409.D
Acq: 20 Nov 2018 15:58

Instrument :
MSVOA_N
ClientSampleId :
PB114952ZHE#03

Tgt Ion: 56 Resp: 9400
Ion Ratio Lower Upper
56 100
69 127.0 23.8 35.8#
84 89.0 63.0 94.6

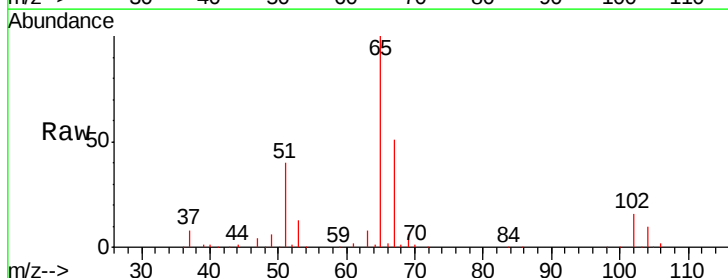


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

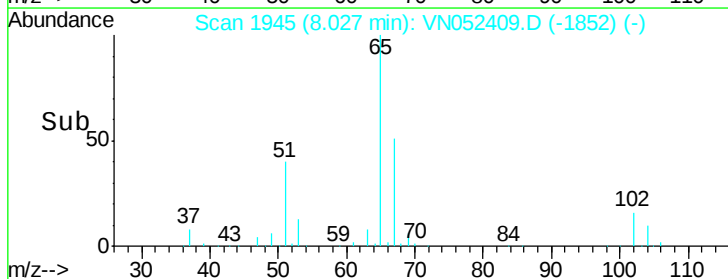
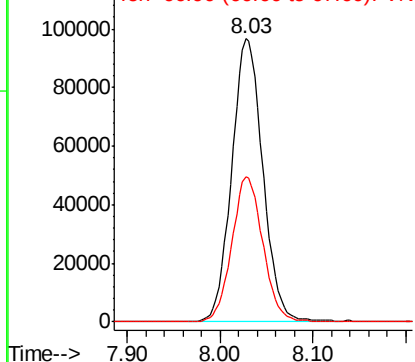


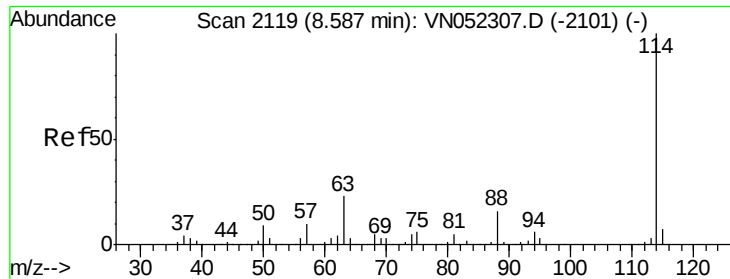
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN052409.D
Acq: 20 Nov 2018 15:58

Tgt Ion: 65 Resp: 225012
Ion Ratio Lower Upper
65 100
67 51.2 0.0 105.2



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

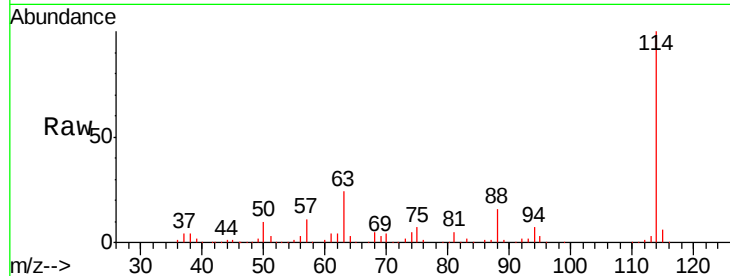




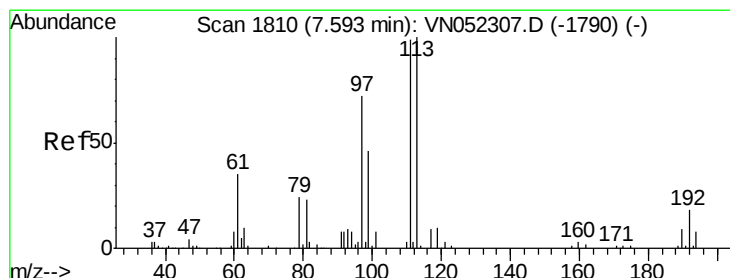
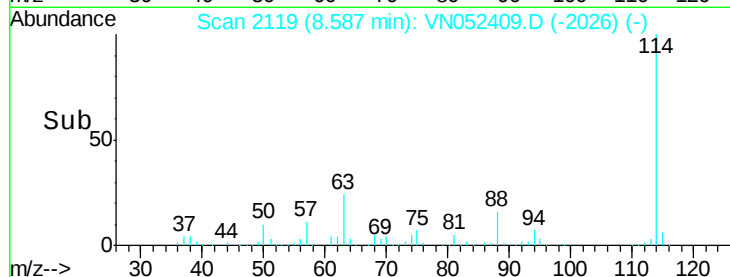
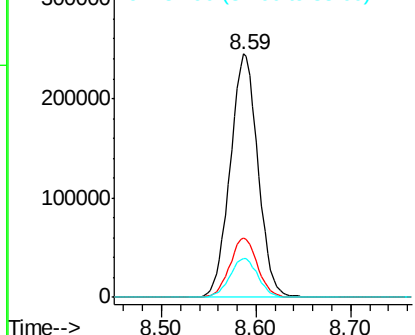
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052409.D
 Acq: 20 Nov 2018 15:58

Instrument :
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 ClientSampleId :
 PB114952ZHE#03

Tgt Ion:114 Resp: 498841
 Ion Ratio Lower Upper
 114 100
 63 24.4 0.0 45.4
 88 16.2 0.0 31.2

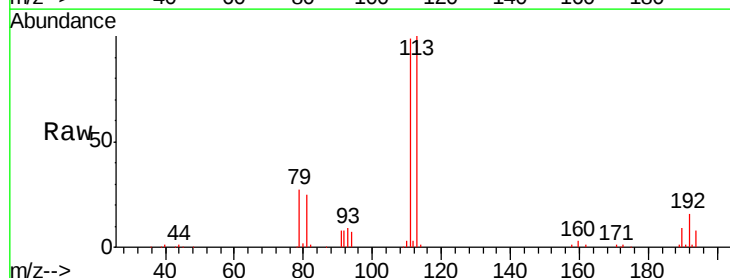


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

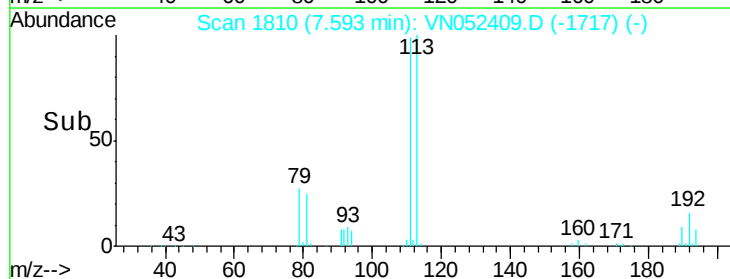
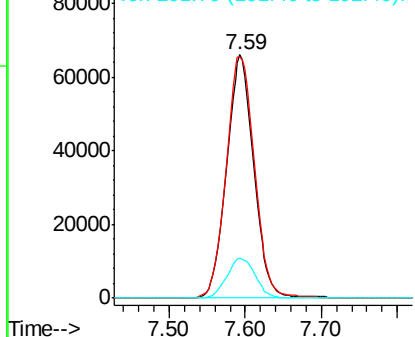


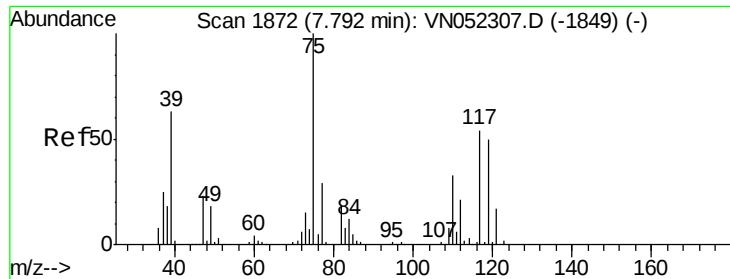
#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052409.D
 Acq: 20 Nov 2018 15:58

Tgt Ion:113 Resp: 164373
 Ion Ratio Lower Upper
 113 100
 111 103.7 81.0 121.6
 192 17.0 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

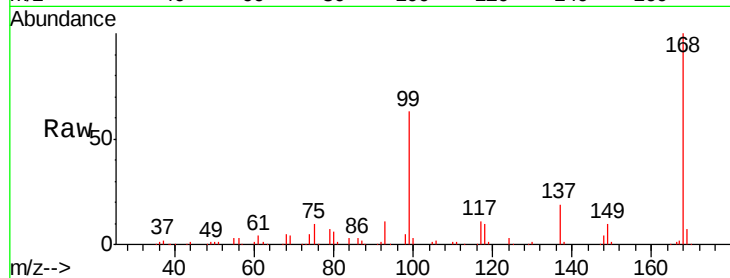




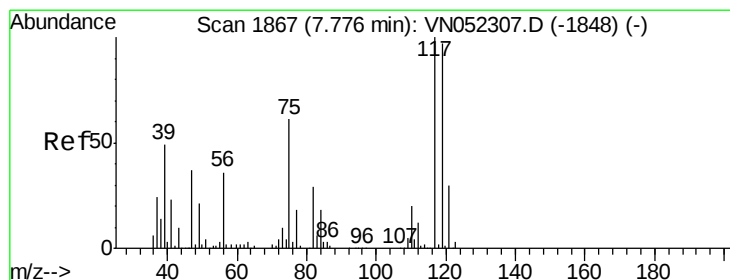
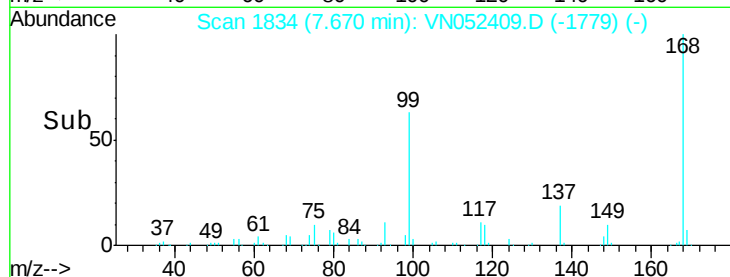
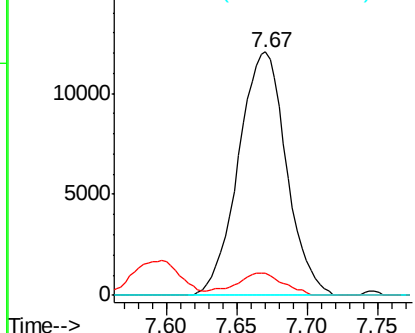
#36
 1,1-Dichloropropene
 Concen: 5.73 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN052409.D
 Acq: 20 Nov 2018 15:58

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114952ZHE#03

Tgt Ion: 75 Resp: 28633
 Ion Ratio Lower Upper
 75 100
 110 9.0 16.5 49.5#
 77 0.0 24.2 36.2#

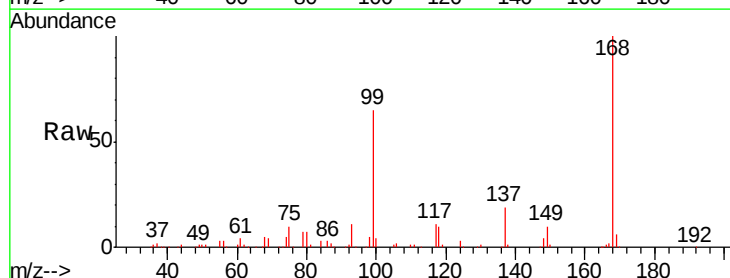


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

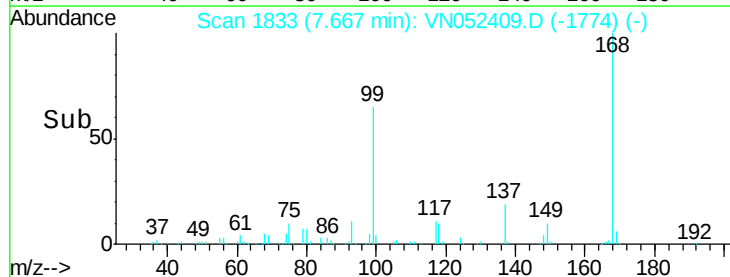
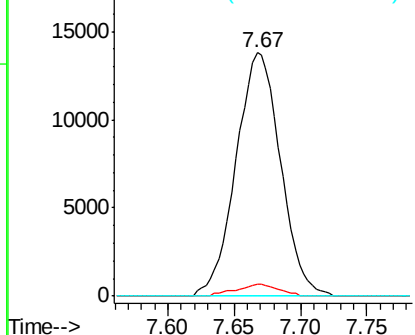


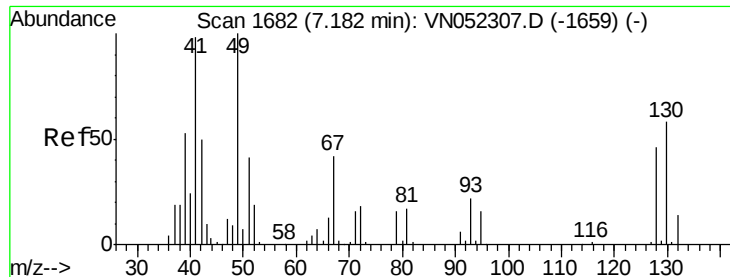
#38
 Carbon Tetrachloride
 Concen: 7.01 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN052409.D
 Acq: 20 Nov 2018 15:58

Tgt Ion: 117 Resp: 32223
 Ion Ratio Lower Upper
 117 100
 119 4.8 77.4 116.0#
 121 0.0 24.0 36.0#



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

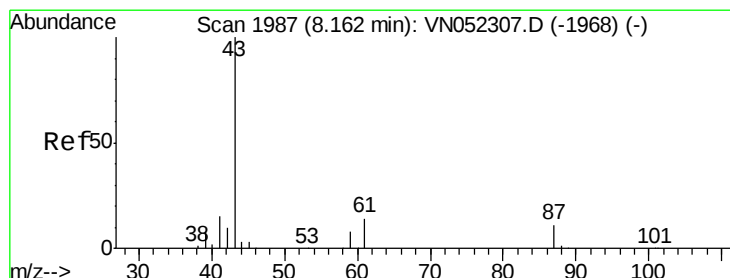
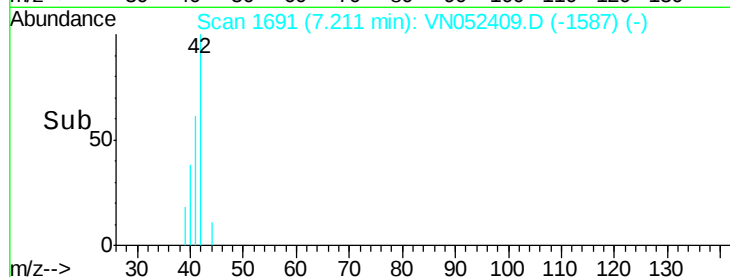
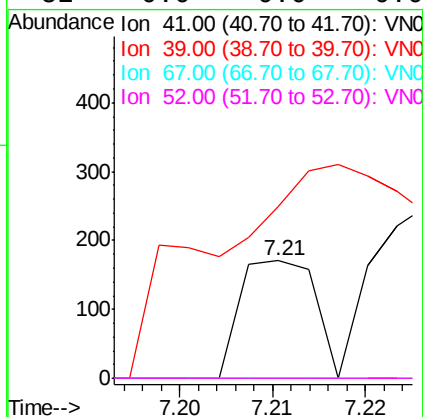
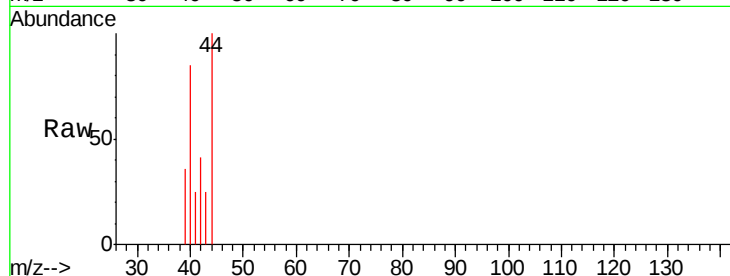




#41
Methacrylonitrile
Concen: 3.74 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.04 min
Lab File: VN052409.D
Acq: 20 Nov 2018 15:58

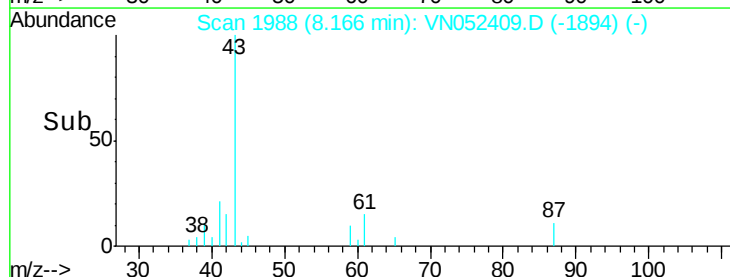
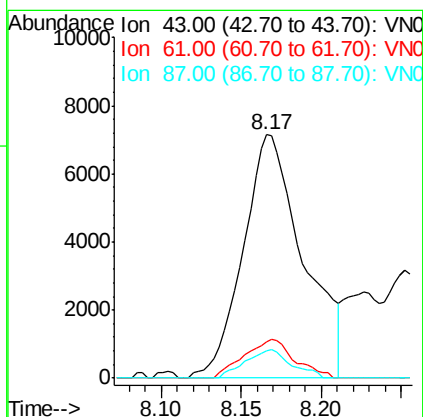
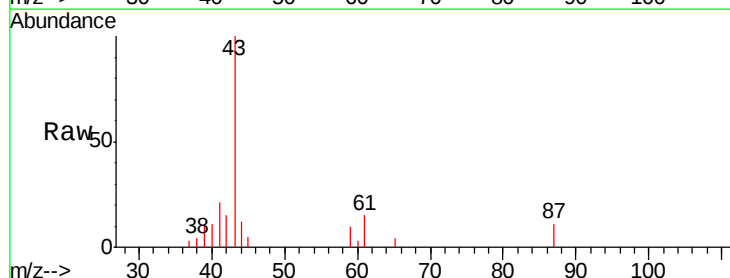
Instrument :
MSVOA_N
ClientSampleId :
PB114952ZHE#03

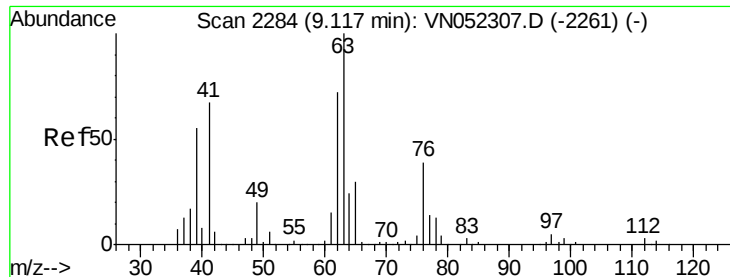
Tgt Ion:	41	Resp:	96
Ion	Ratio	Lower	Upper
41	100		
39	488.5	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 2.65 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN052409.D
Acq: 20 Nov 2018 15:58

Tgt Ion:	43	Resp:	18550
Ion	Ratio	Lower	Upper
43	100		
61	13.4	12.0	18.0
87	9.0	8.3	12.5

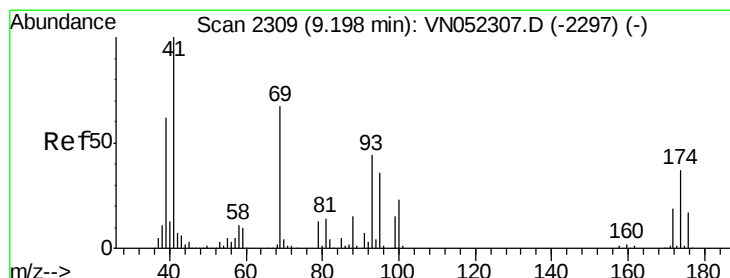
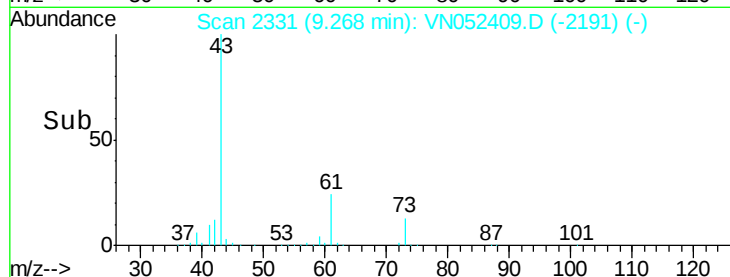
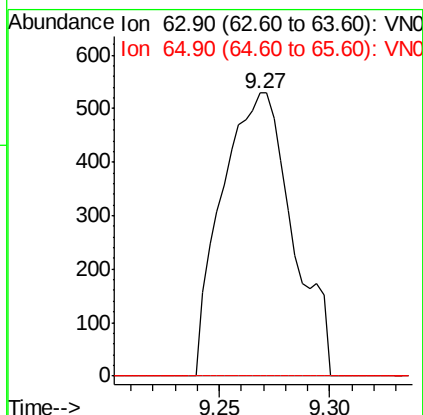
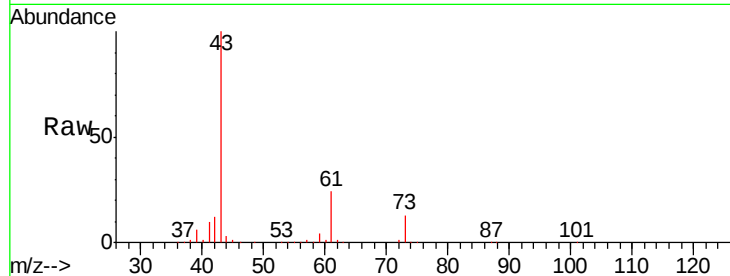




#45
 1,2-Dichloropropane
 Concen: 0.29 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN052409.D
 Acq: 20 Nov 2018 15:58

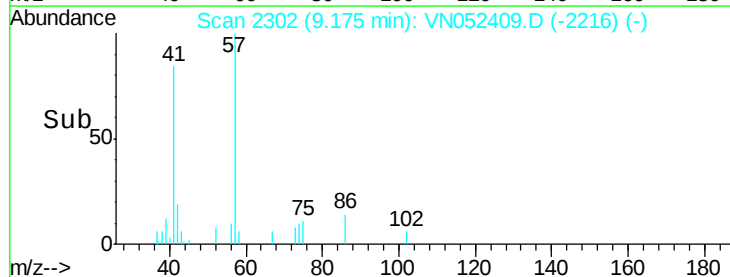
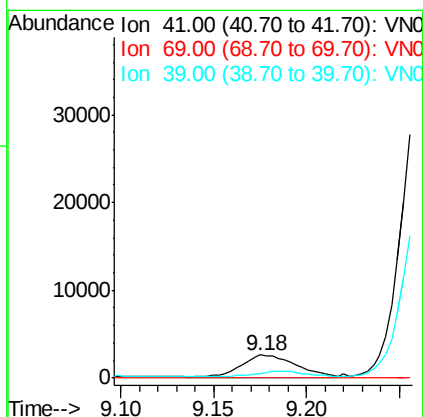
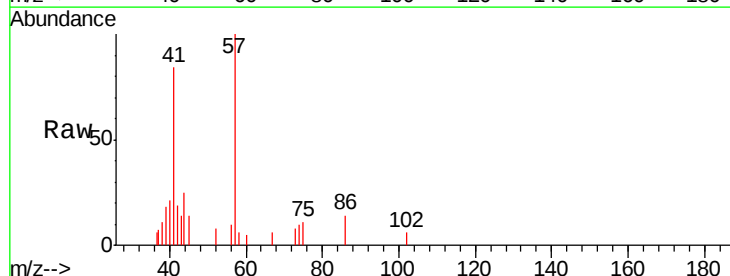
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114952ZHE#03

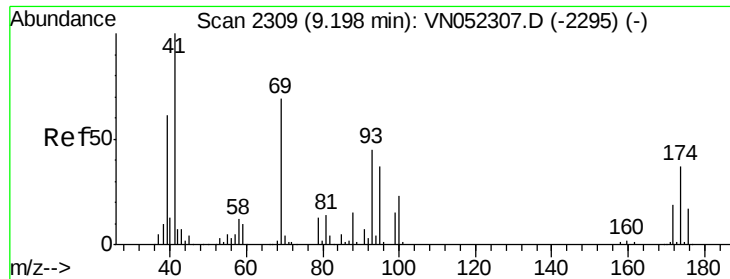
Tgt Ion: 63 Resp: 1173
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.2 36.4#



#48
 Methyl methacrylate
 Concen: 1.60 ug/l
 RT: 9.18 min Scan# 2302
 Delta R.T. -0.02 min
 Lab File: VN052409.D
 Acq: 20 Nov 2018 15:58

Tgt Ion: 41 Resp: 5698
 Ion Ratio Lower Upper
 41 100
 69 0.0 57.1 85.7#
 39 0.0 52.5 78.7#





#49

1,4-Dioxane

Concen: 3.67 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.07 min

Lab File: VN052409.D

Acq: 20 Nov 2018 15:58

Instrument :

MSVOA_N

ClientSampleId :

PB114952ZHE#03

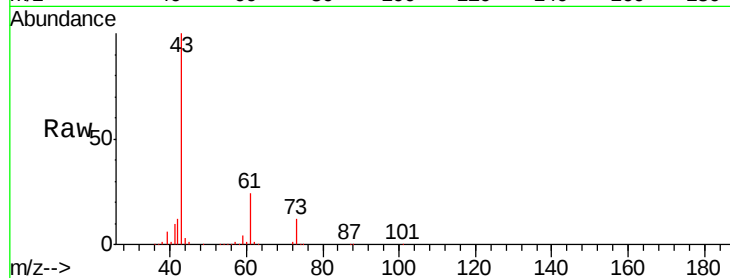
Tgt Ion: 88 Resp: 100

Ion Ratio Lower Upper

88 100

43 880196.0 33.3 49.9#

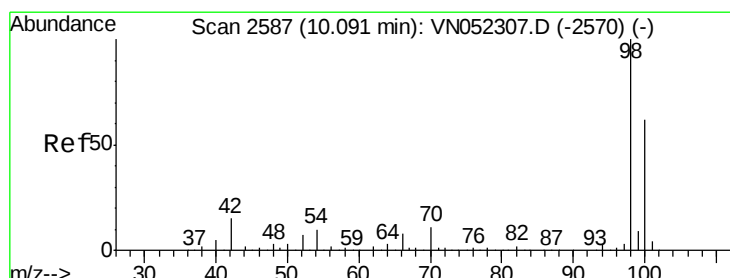
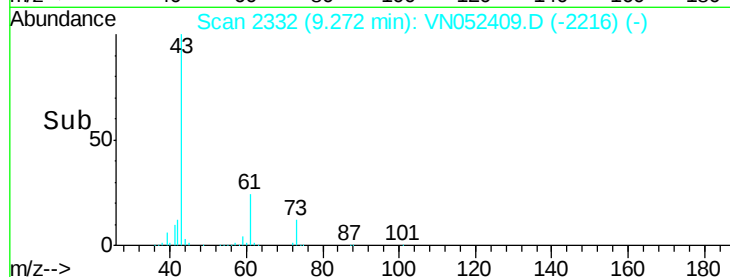
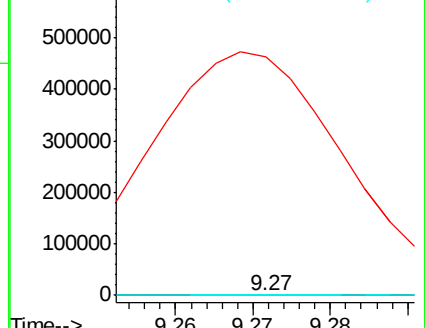
58 4180.0 59.2 88.8#



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: 3.67 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052409.D

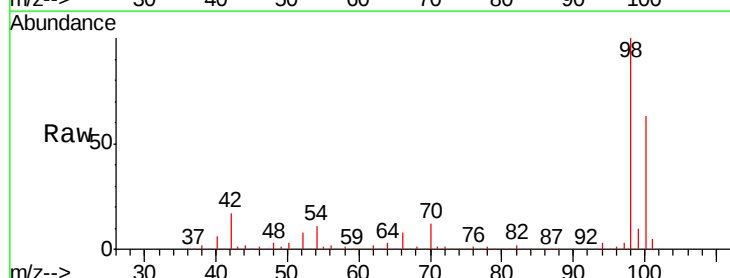
Acq: 20 Nov 2018 15:58

Tgt Ion: 98 Resp: 644820

Ion Ratio Lower Upper

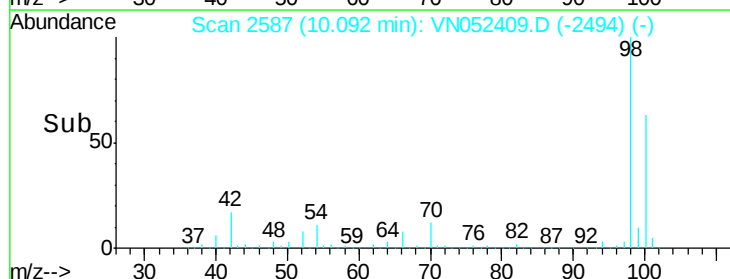
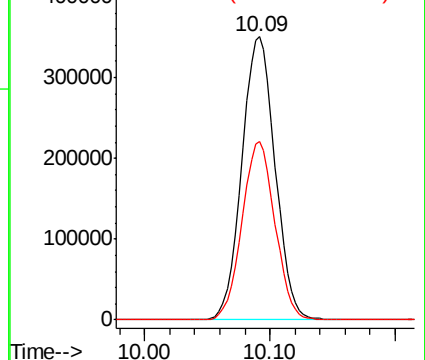
98 100

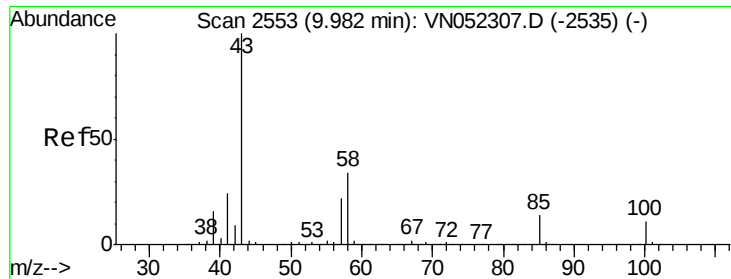
100 62.5 49.5 74.3



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

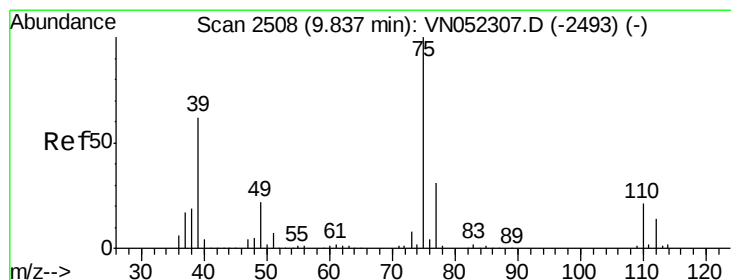
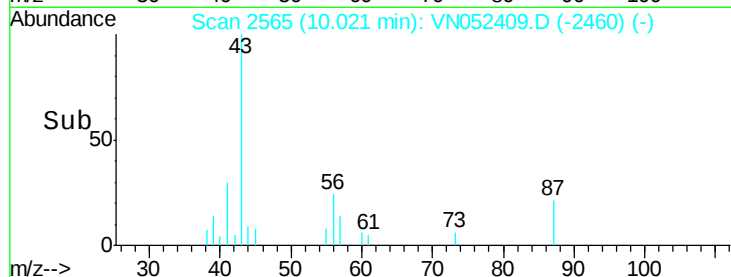
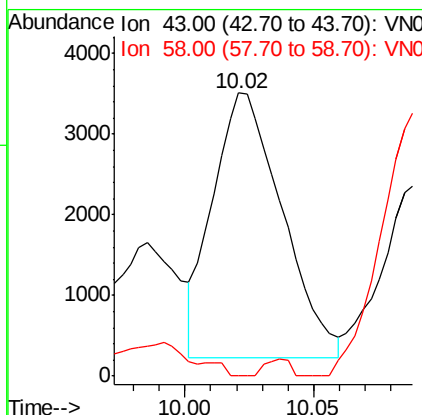
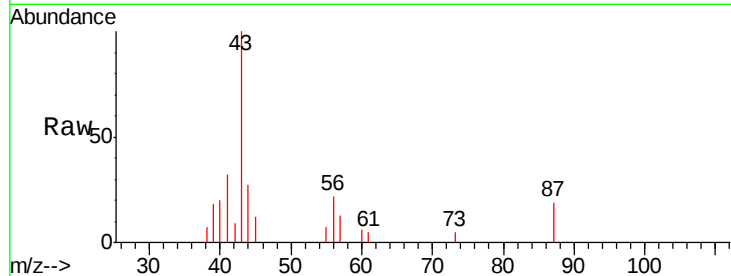




#51
 4-Methyl-2-Pentanone
 Concen: 1.74 ug/l
 RT: 10.02 min Scan# 2565
 Delta R.T. 0.04 min
 Lab File: VN052409.D
 Acq: 20 Nov 2018 15:58

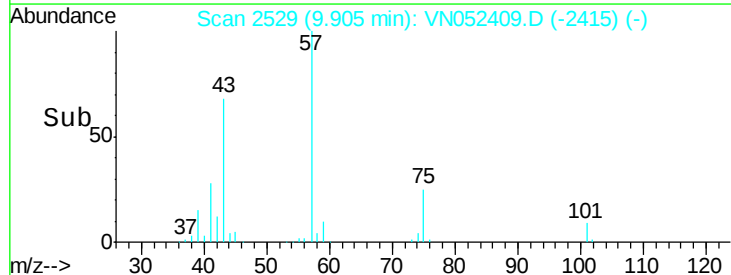
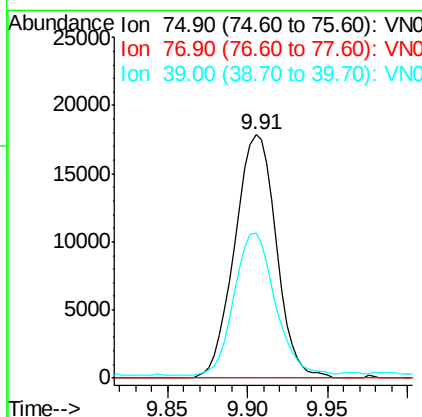
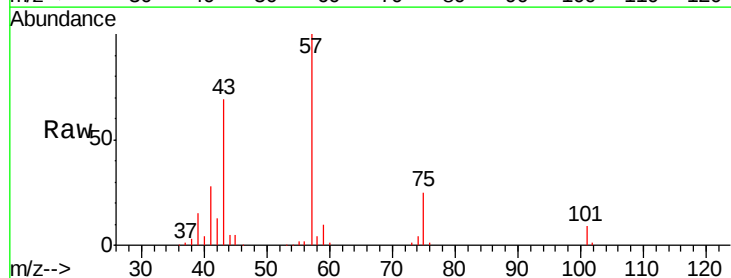
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114952ZHE#03

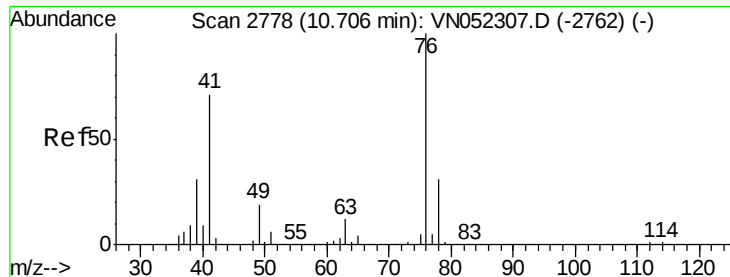
Tgt Ion: 43 Resp: 6143
 Ion Ratio Lower Upper
 43 100
 58 0.0 27.0 40.6#



#54
 cis-1,3-Dichloropropene
 Concen: 5.71 ug/l
 RT: 9.91 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN052409.D
 Acq: 20 Nov 2018 15:58

Tgt Ion: 75 Resp: 31607
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 36.8#
 39 58.1 49.9 74.9





#57

1,3-Dichloropropane

Concen: 1.19 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN052409.D

Acq: 20 Nov 2018 15:58

Instrument :

MSVOA_N

ClientSampleId :

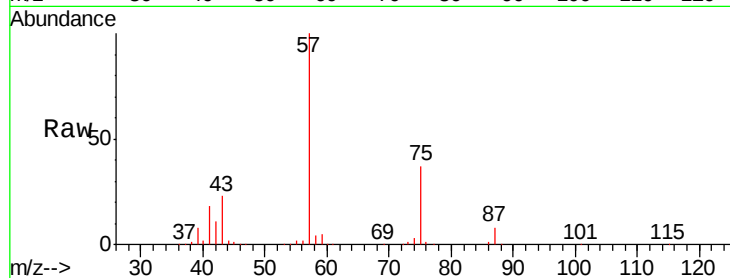
PB114952ZHE#03

Tgt Ion: 76 Resp: 6528

Ion Ratio Lower Upper

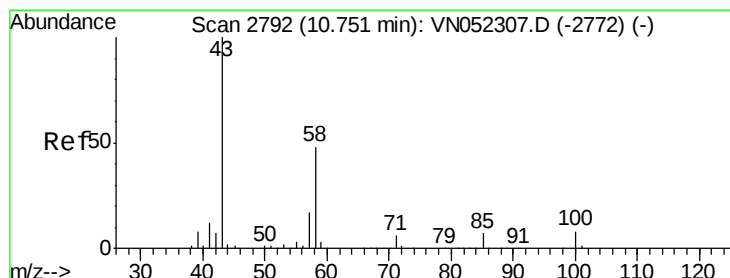
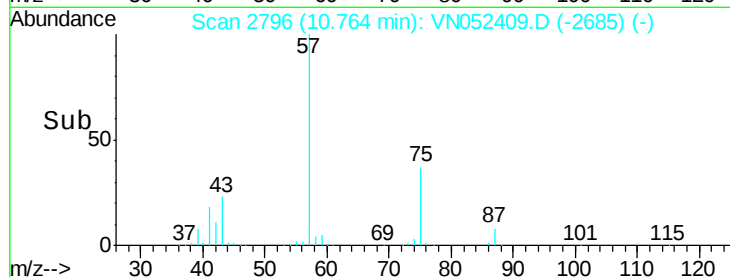
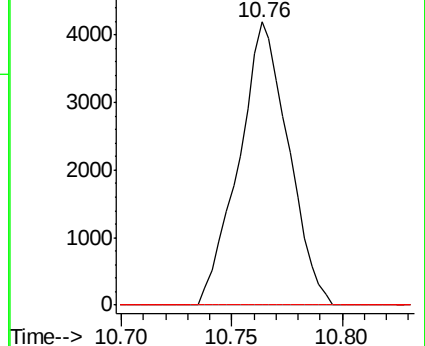
76 100

78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 47.88 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052409.D

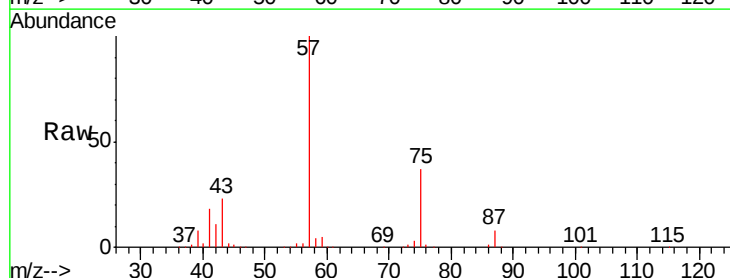
Acq: 20 Nov 2018 15:58

Tgt Ion: 43 Resp: 116067

Ion Ratio Lower Upper

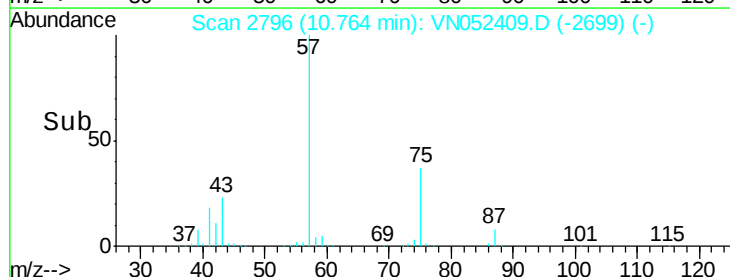
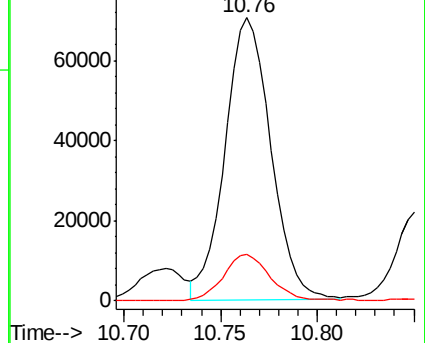
43 100

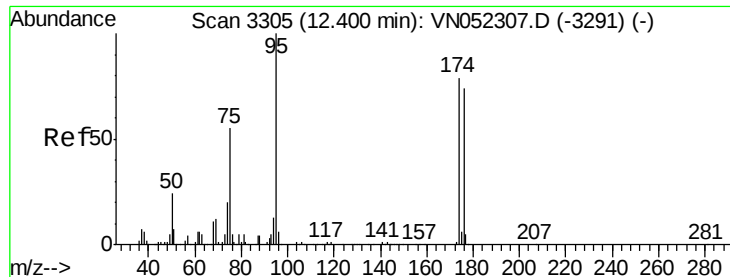
58 17.0 23.5 70.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052409.D

Acq: 20 Nov 2018 15:58

Instrument :

MSVOA_N

ClientSampleId :

PB114952ZHE#03

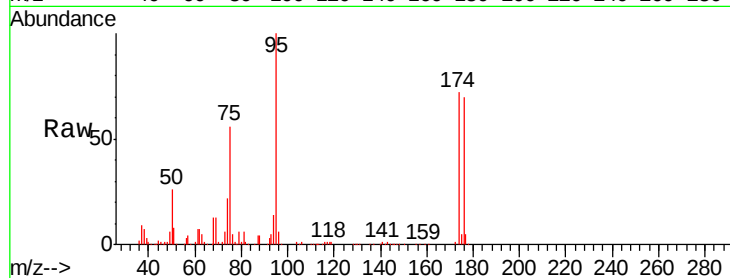
Tgt Ion: 95 Resp: 194669

Ion Ratio Lower Upper

95 100

174 73.2 0.0 156.0

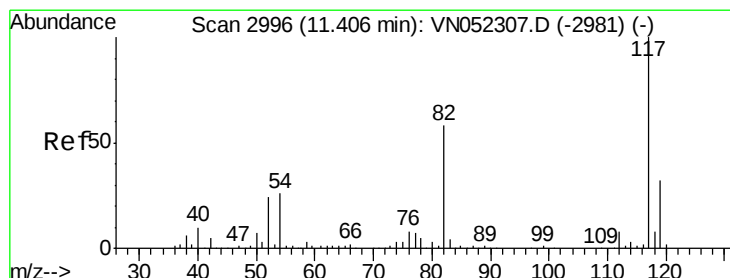
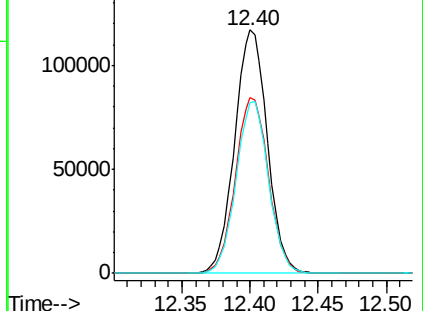
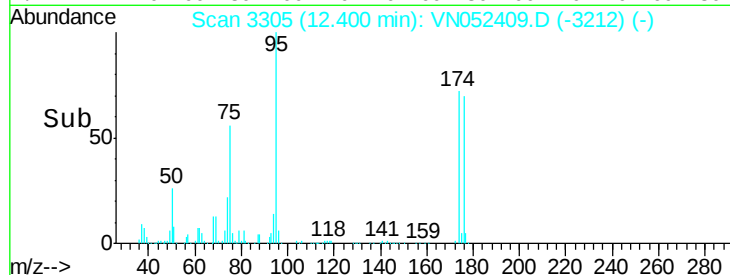
176 70.3 0.0 148.4



Abundance Ion 94.90 (94.60 to 95.60): VN052409.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN052409.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN052409.D (-3212) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052409.D

Acq: 20 Nov 2018 15:58

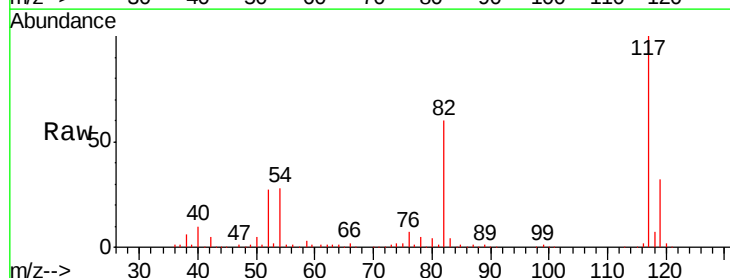
Tgt Ion: 117 Resp: 434373

Ion Ratio Lower Upper

117 100

82 60.1 46.5 69.7

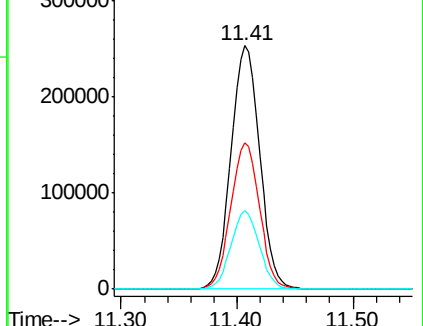
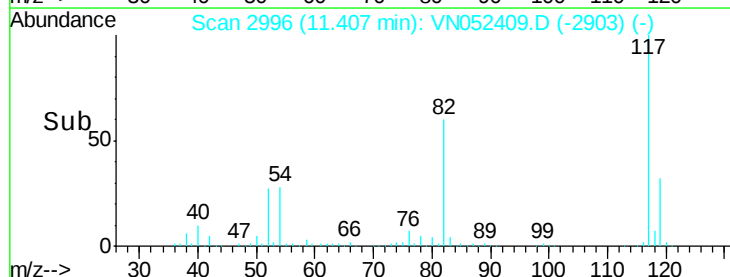
119 32.3 25.7 38.5

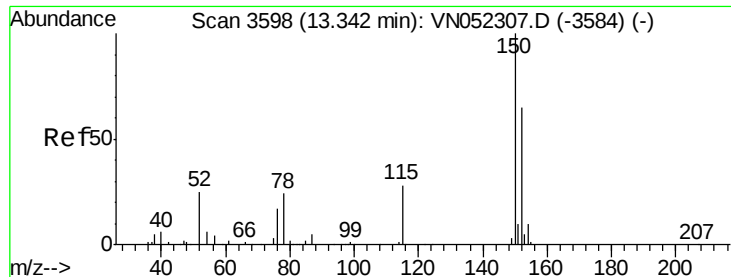


Abundance Ion 116.90 (116.60 to 117.60): VN052409.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN052409.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN052409.D (-2903) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052409.D

Acq: 20 Nov 2018 15:58

Instrument :

MSVOA_N

ClientSampleId :

PB114952ZHE#03

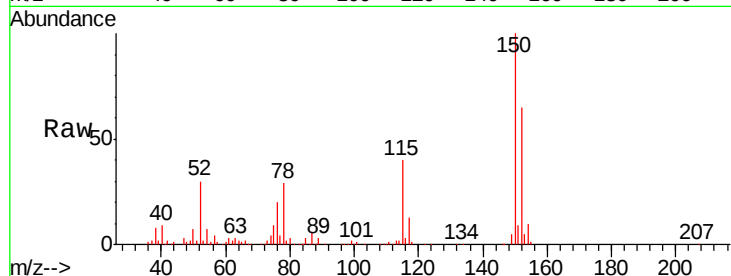
Tgt Ion:152 Resp: 150176

Ion Ratio Lower Upper

152 100

115 61.0 30.3 91.0

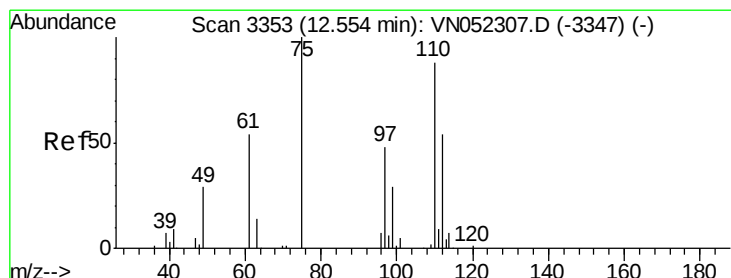
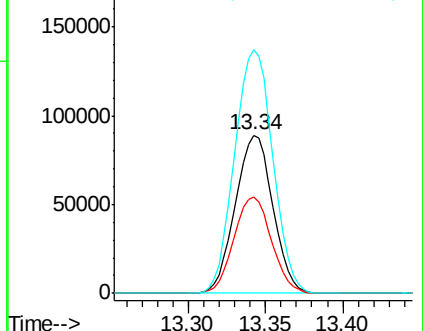
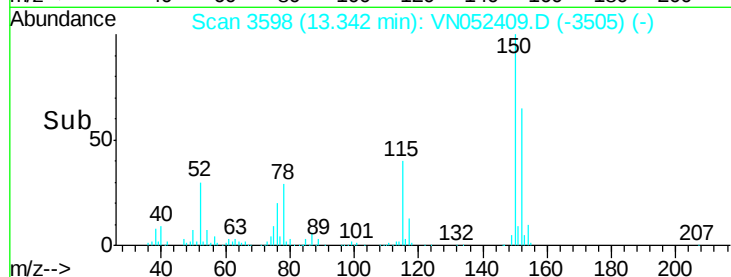
150 157.4 0.0 348.2



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



#76

1,2,3-Trichloropropane

Concen: 43.46 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052409.D

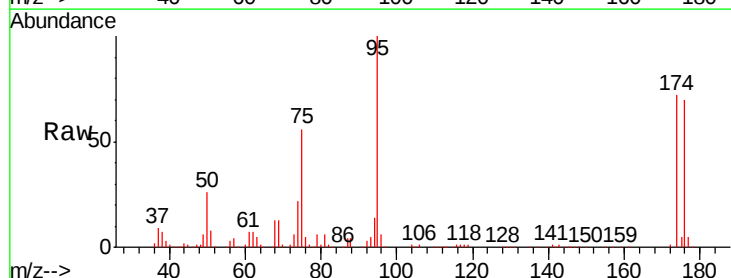
Acq: 20 Nov 2018 15:58

Tgt Ion: 75 Resp: 110734

Ion Ratio Lower Upper

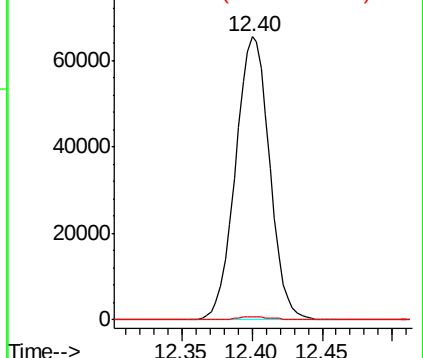
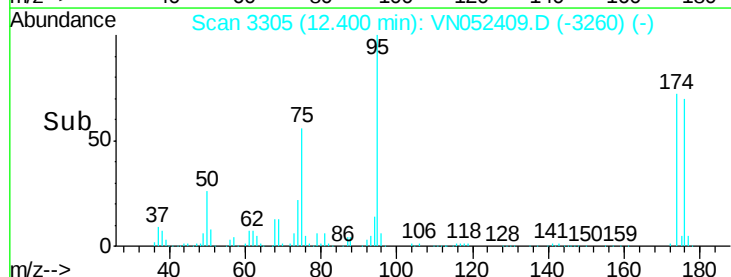
75 100

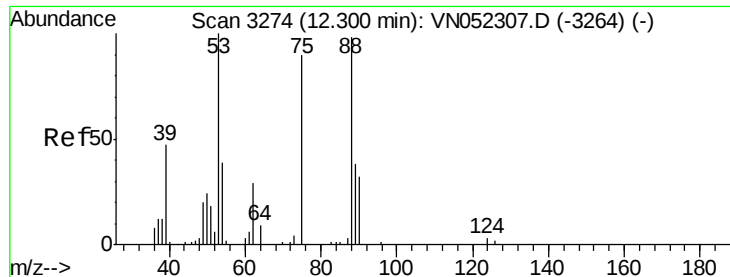
77 1.1 0.0 0.0#



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: 140.94 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052409.D

Acq: 20 Nov 2018 15:58

Instrument :

MSVOA_N

ClientSampleId :

PB114952ZHE#03

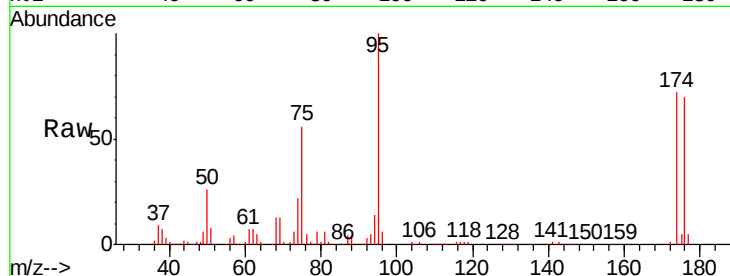
Tgt Ion: 75 Resp: 110734

Ion Ratio Lower Upper

75 100

53 0.1 90.2 135.2#

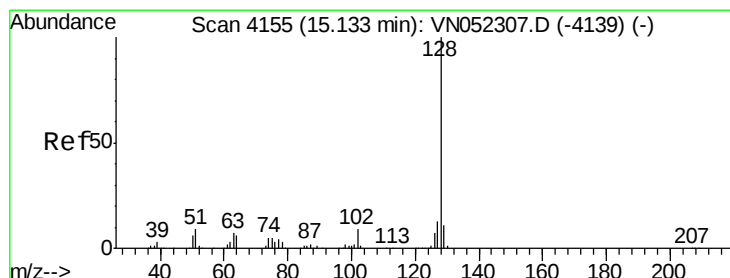
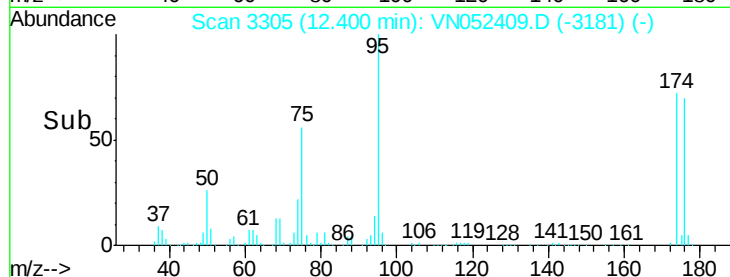
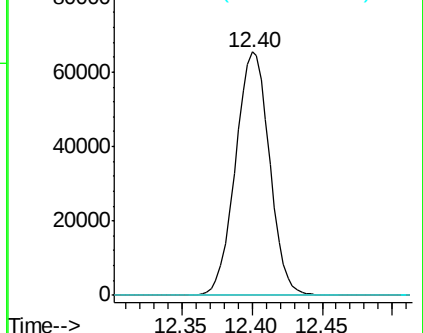
89 0.0 35.4 53.0#



Abundance Ion 74.90 (74.60 to 75.60): VN052307.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN052307.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN052307.D (-3264) (-)



#95

Naphthalene

Concen: 2.62 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN052409.D

Acq: 20 Nov 2018 15:58

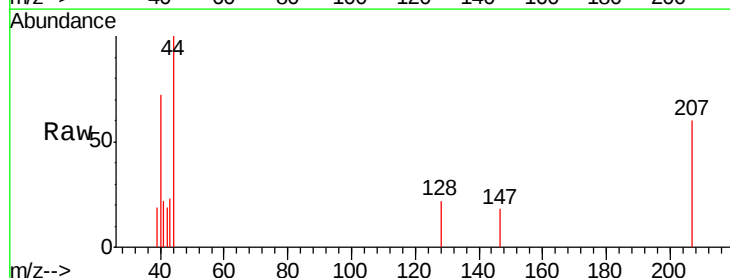
Tgt Ion: 128 Resp: 105

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN052307.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN052307.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN052307.D (-4139) (-)

