

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101218\
 Data File : VN051849.D
 Acq On : 12 Oct 2018 22:48
 Operator : MD\SY
 Sample : PB113779ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 30 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113779ZHE#02

Quant Time: Oct 13 02:09:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101118W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 09:51:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	812769	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1170966	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1036712	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	383856	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	439734	56.61	ug/l	0.00
Spiked Amount			Recovery	=	113.22%	
35) Dibromofluoromethane	7.59	113	435407	59.80	ug/l	0.00
Spiked Amount			Recovery	=	119.60%	
50) Toluene-d8	10.09	98	1617735	59.62	ug/l	0.00
Spiked Amount			Recovery	=	119.24%	
62) 4-Bromofluorobenzene	12.40	95	460792	49.20	ug/l	0.00
Spiked Amount			Recovery	=	98.40%	

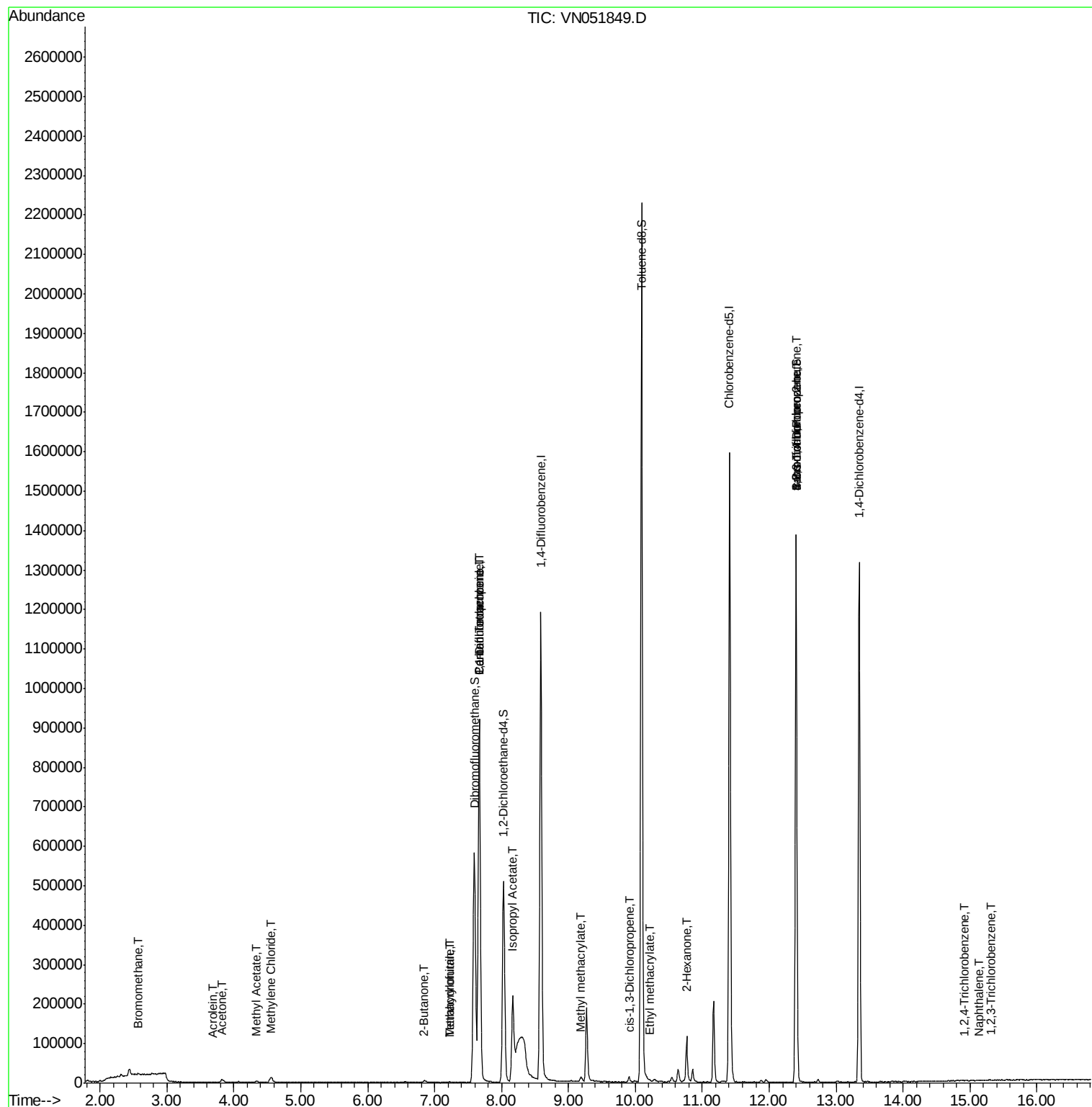
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	1998	0.270	ug/l #	78
13) Acrolein	3.68	56	33	15.993	ug/l #	81
16) Acetone	3.82	43	13195	7.876	ug/l	94
18) Methyl Acetate	4.34	43	5653	0.205	ug/l #	87
20) Methylene Chloride	4.56	84	9813	1.415	ug/l #	86
25) 2-Butanone	6.84	43	2617	1.105	ug/l	92
29) Tetrahydrofuran	7.22	42	1262	0.894	ug/l #	39
31) Cyclohexane	7.66	56	13156	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	51572	5.440	ug/l #	51
38) Carbon Tetrachloride	7.67	117	71999	6.552	ug/l #	16
41) Methacrylonitrile	7.22	41	653	0.278	ug/l #	40
43) Isopropyl Acetate	8.17	43	268389	27.388	ug/l	96
48) Methyl methacrylate	9.18	41	5268	1.215	ug/l #	22
54) cis-1,3-Dichloropropene	9.91	75	2367	0.218	ug/l #	73
56) Ethyl methacrylate	10.22	69	2066	0.254	ug/l #	46
59) 2-Hexanone	10.76	43	17207	4.849	ug/l #	57
71) Bromoform	12.40	173	3794	4.139	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	235168	49.653	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	235168	141.080	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	30	3.659	ug/l #	1
95) Naphthalene	15.13	128	524	4.430	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	102	2.872	ug/l #	64

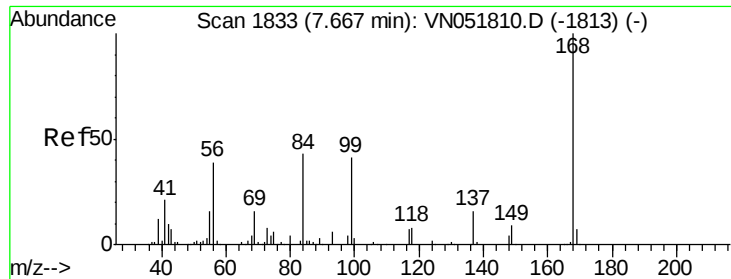
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN051849.D

Acq: 12 Oct 2018 22:48

Instrument :

MSVOA_N

ClientSampleId :

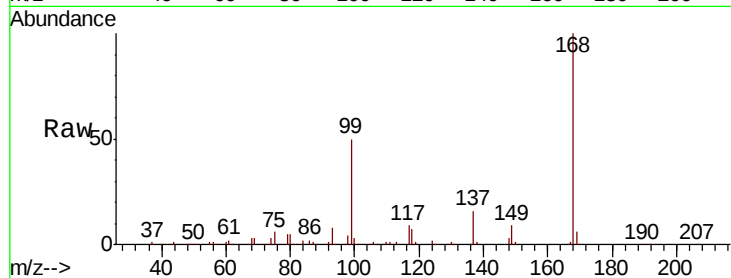
PB113779ZHE#02

Tot Ion:168 Resp: 812769

Ion Ratio Lower Upper

168 100

99 50.2 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): VN051810.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051810.D (-1813) (-)

7.67

400000

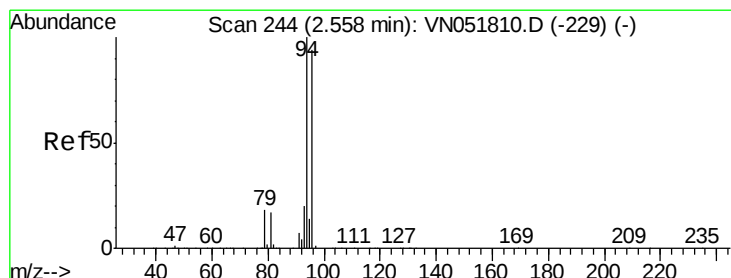
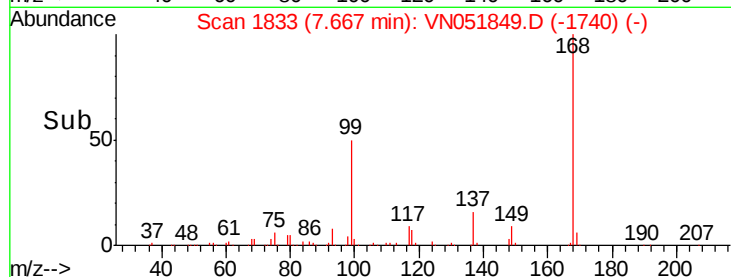
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 0.270 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051849.D

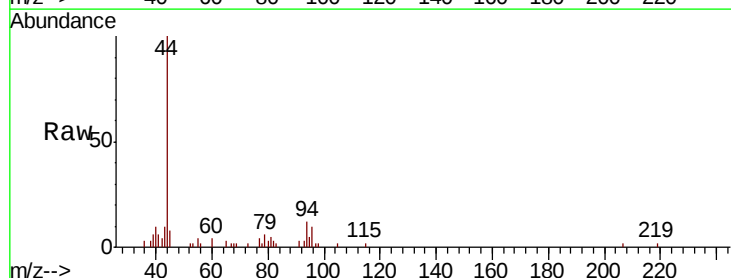
Acq: 12 Oct 2018 22:48

Tgt Ion: 94 Resp: 1998

Ion Ratio Lower Upper

94 100

96 74.1 76.2 114.2#



Abundance Ion 93.90 (93.60 to 94.60): VN051810.D (-229) (-)

Ion 95.90 (95.60 to 96.60): VN051810.D (-229) (-)

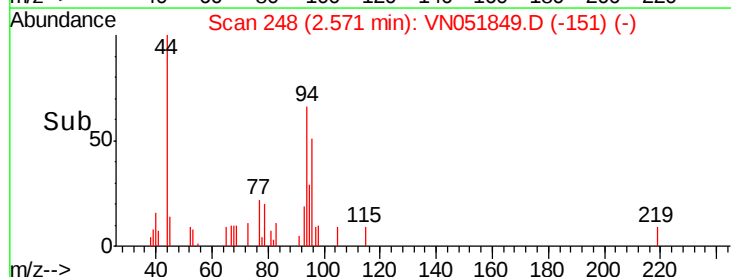
2.57

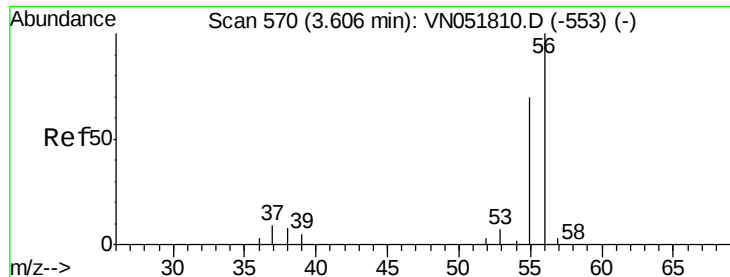
1000

500

0

Time-->





#13

Acrolein

Concen: 15.993 ug/l

RT: 3.68 min Scan# 594

Delta R.T. 0.08 min

Lab File: VN051849.D

Acq: 12 Oct 2018 22:48

Instrument :

MSVOA_N

ClientSampleId :

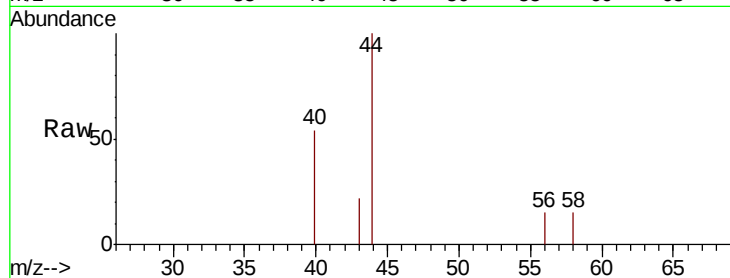
PB113779ZHE#02

Tot Ion: 56 Resp: 33

Ion Ratio Lower Upper

56 100

55 87.9 57.7 86.5#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.68

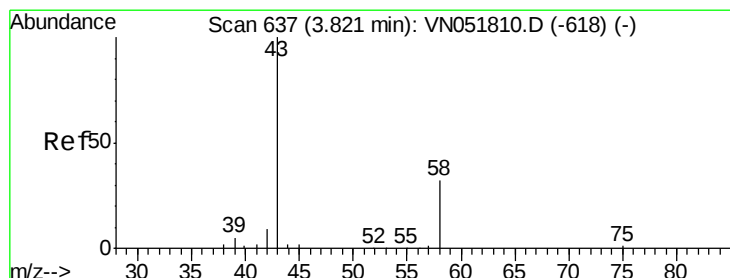
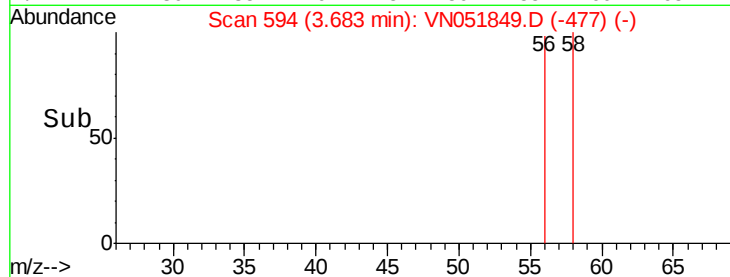
150

100

50

0

Time-->



#16

Acetone

Concen: 7.876 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN051849.D

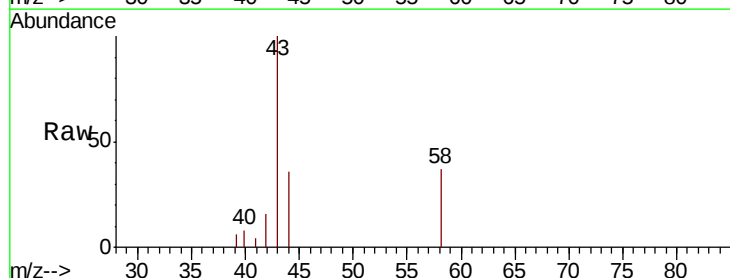
Acq: 12 Oct 2018 22:48

Tgt Ion: 43 Resp: 13195

Ion Ratio Lower Upper

43 100

58 37.2 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

5000

4000

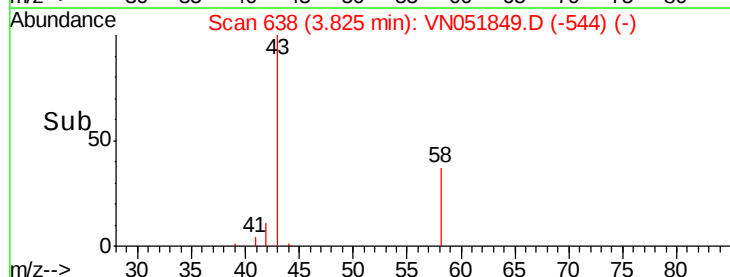
3000

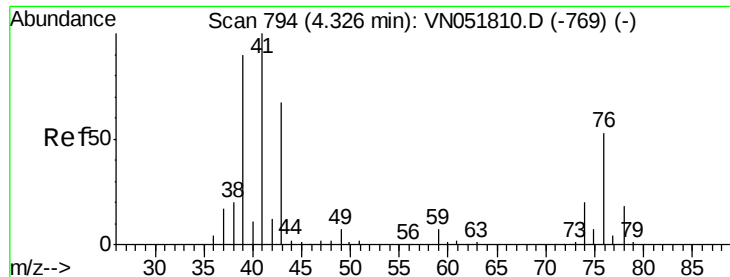
2000

1000

0

Time-->

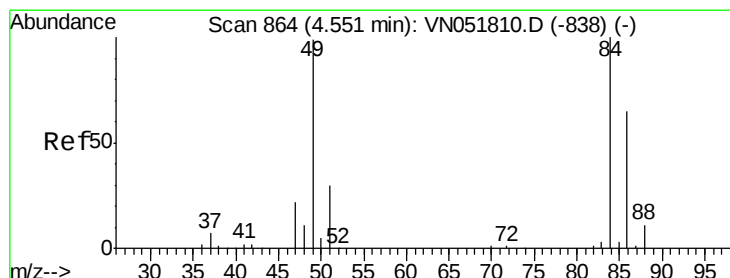
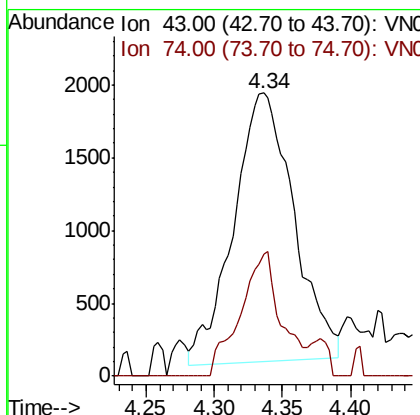
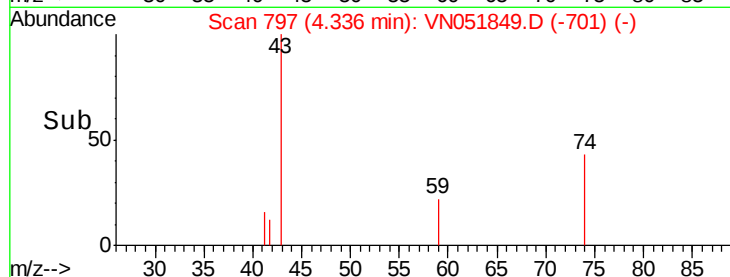
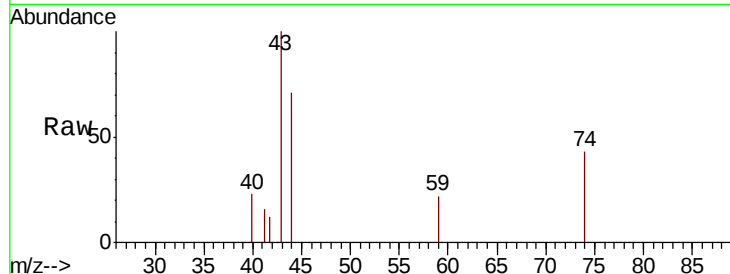




#18
Methyl Acetate
Concen: 0.205 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN051849.D
Acq: 12 Oct 2018 22:48

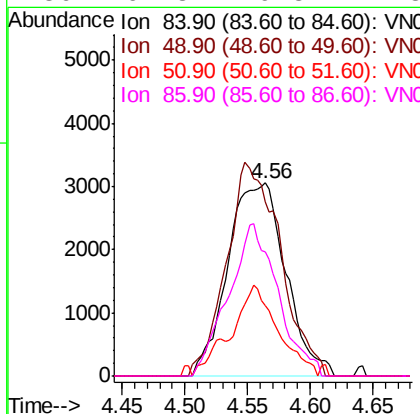
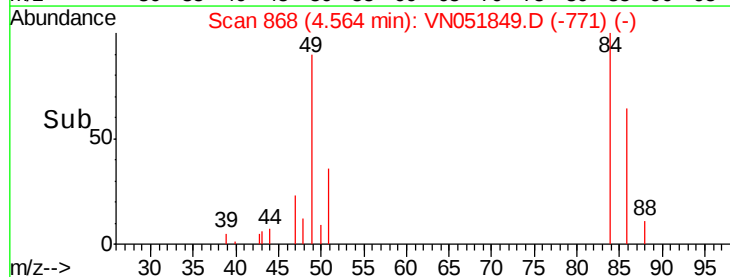
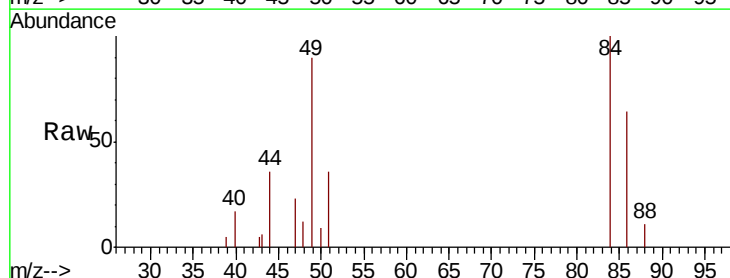
Instrument :
MSVOA_N
ClientSampleId :
PB113779ZHE#02

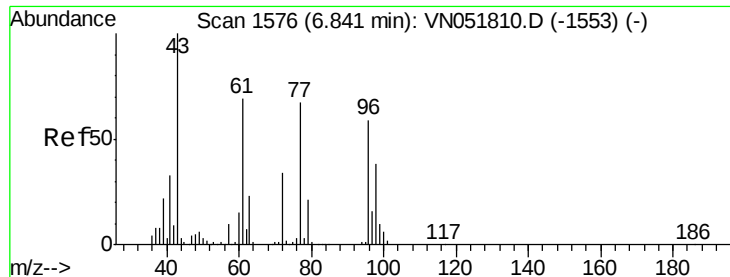
Tot Ion: 43 Resp: 5653
Ion Ratio Lower Upper
43 100
74 31.1 19.8 29.8#



#20
Methylene Chloride
Concen: 1.415 ug/l
RT: 4.56 min Scan# 868
Delta R.T. 0.01 min
Lab File: VN051849.D
Acq: 12 Oct 2018 22:48

Tgt Ion: 84 Resp: 9813
Ion Ratio Lower Upper
84 100
49 90.3 93.2 139.8#
51 36.2 29.0 43.6
86 64.3 49.8 74.8

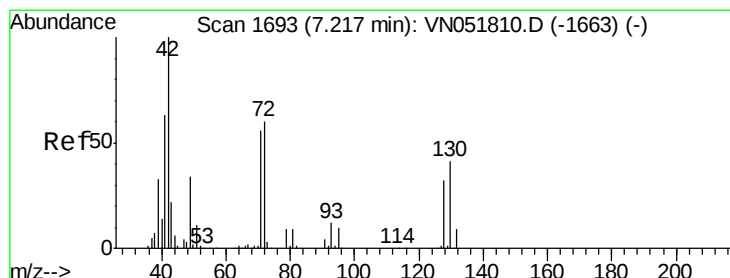
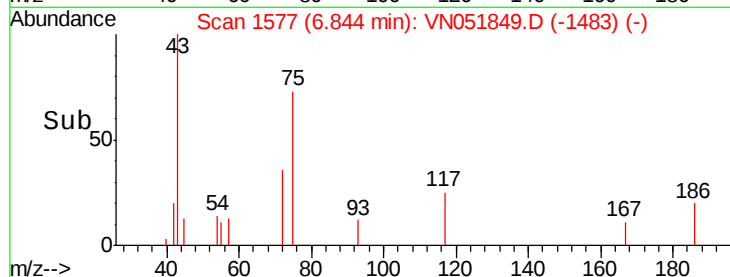
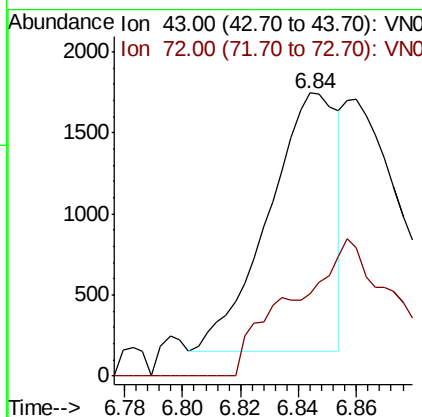
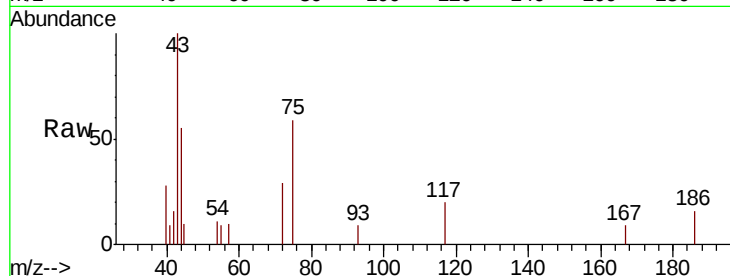




#25
2-Butanone
Concen: 1.105 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.00 min
Lab File: VN051849.D
Acq: 12 Oct 2018 22:48

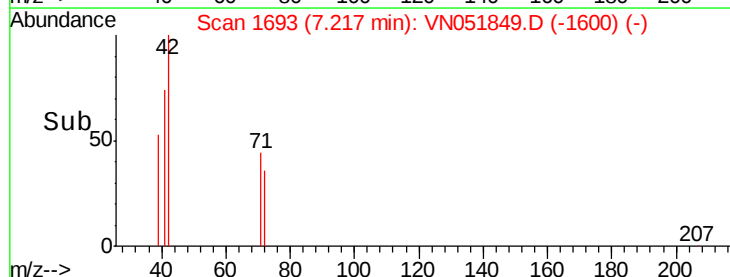
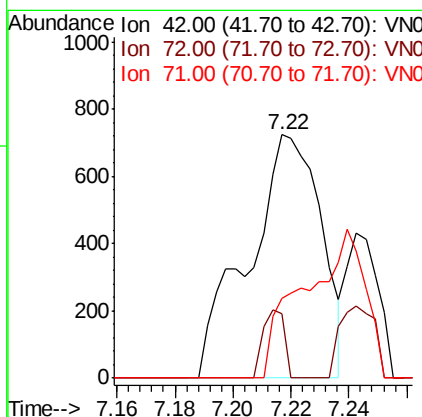
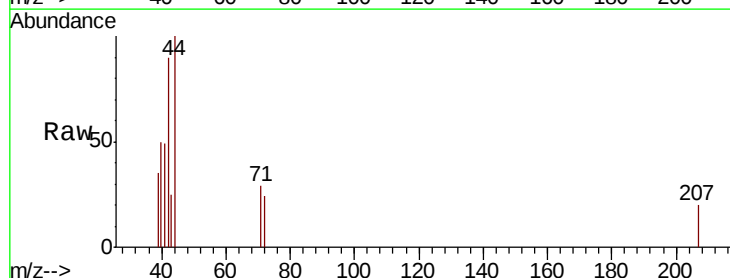
Instrument :
MSVOA_N
ClientSampleId :
PB113779ZHE#02

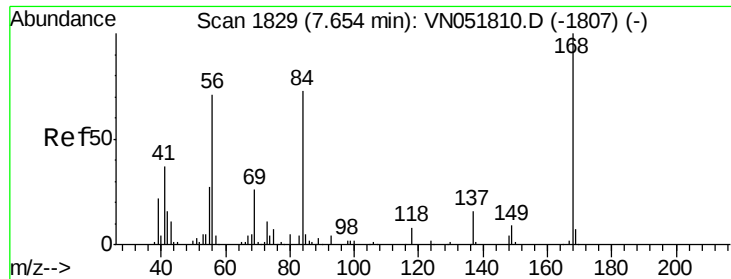
Tot Ion: 43 Resp: 2617
Ion Ratio Lower Upper
43 100
72 32.1 22.3 33.5



#29
Tetrahydrofuran
Concen: 0.894 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.00 min
Lab File: VN051849.D
Acq: 12 Oct 2018 22:48

Tgt Ion: 42 Resp: 1262
Ion Ratio Lower Upper
42 100
72 8.4 35.5 53.3#
71 0.0 33.7 50.5#

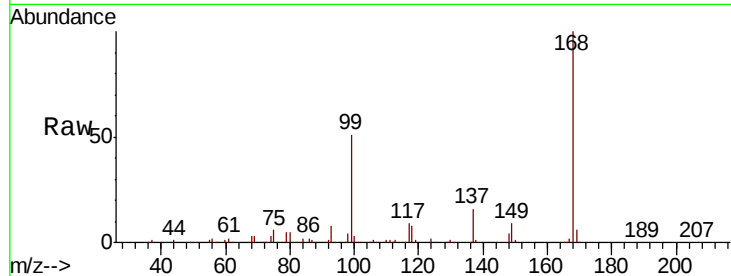




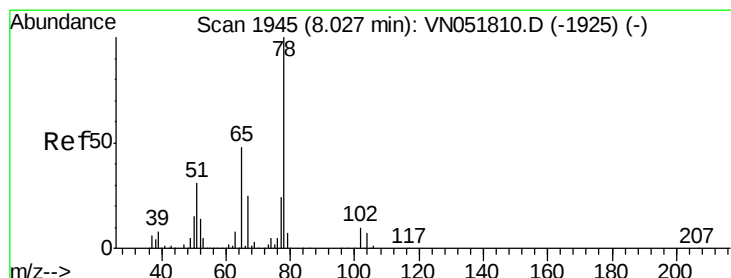
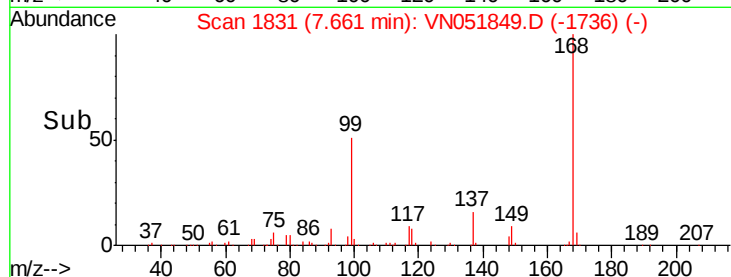
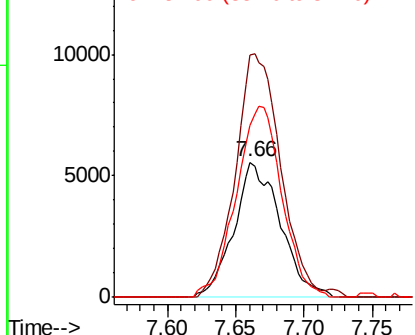
#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN051849.D
Acq: 12 Oct 2018 22:48

Instrument :
MSVOA_N
ClientSampleId :
PB113779ZHE#02

Tot Ion	56	Resp	13156
Ion Ratio	Lower	Upper	
56	100		
69	179.3	26.2	39.4#
84	127.6	68.3	102.5#

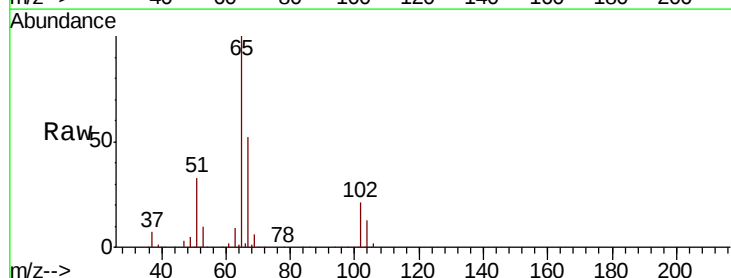


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

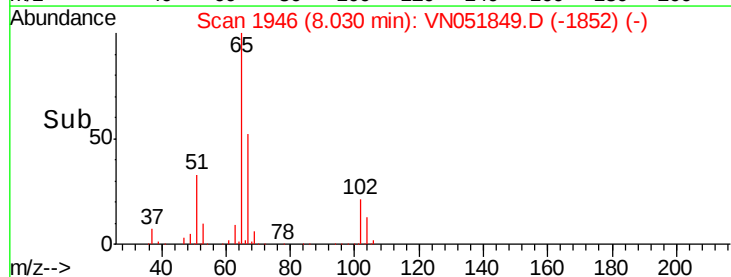
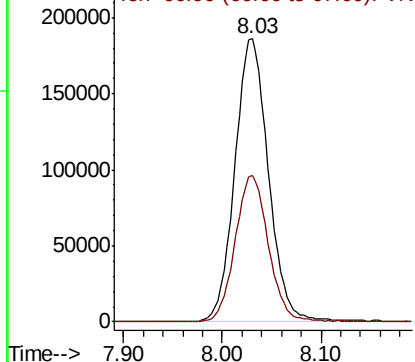


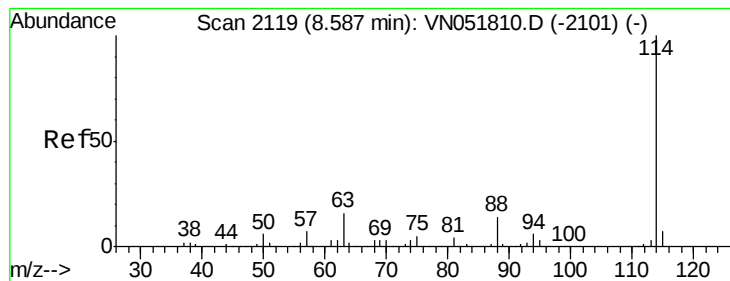
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN051849.D
Acq: 12 Oct 2018 22:48

Tgt Ion	65	Resp	439734
Ion Ratio	Lower	Upper	
65	100		
67	51.3	0.0	110.4



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: VN051849.D

Acq: 12 Oct 2018 22:48

Instrument :

MSVOA_N

ClientSampleId :

PB113779ZHE#02

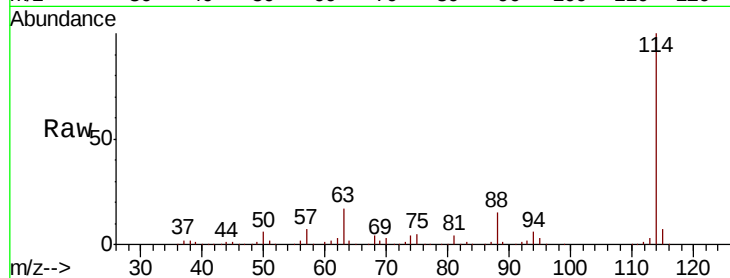
Tot Ion:114 Resp: 1170966

Ion Ratio Lower Upper

114 100

63 16.9 0.0 38.6

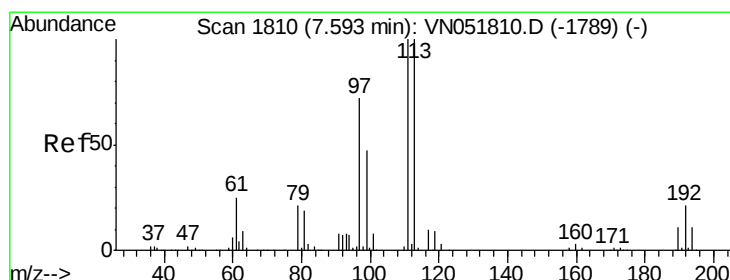
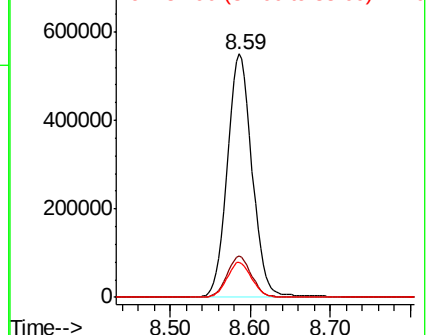
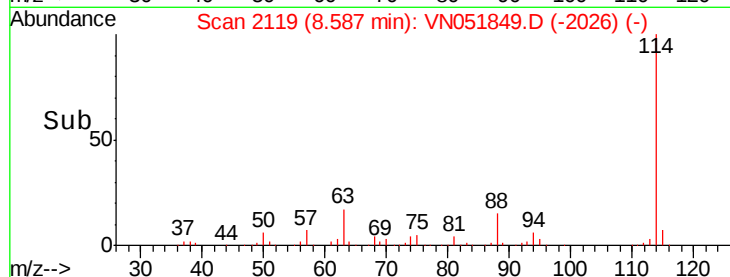
88 14.5 0.0 30.6



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: VN051849.D

Acq: 12 Oct 2018 22:48

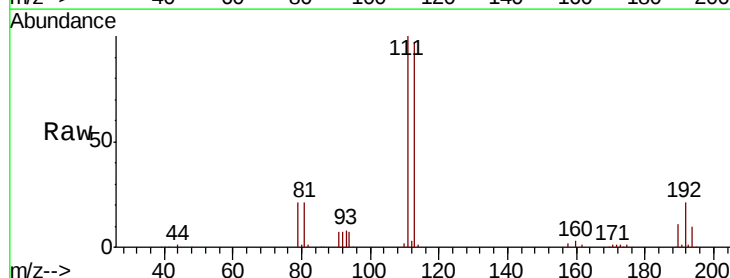
Tgt Ion:113 Resp: 435407

Ion Ratio Lower Upper

113 100

111 102.4 82.6 123.8

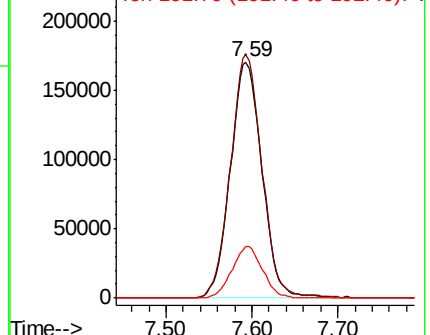
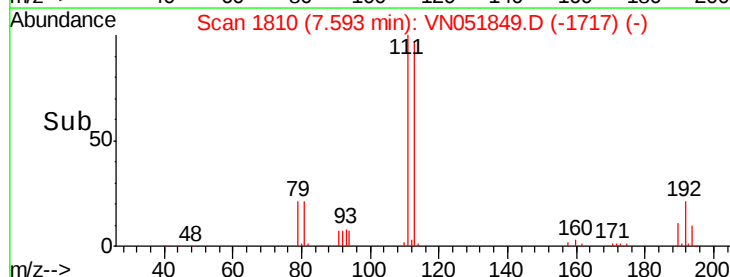
192 21.1 18.0 27.0

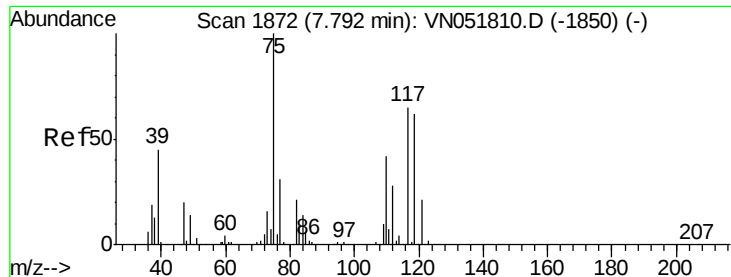


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.440 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN051849.D

Acq: 12 Oct 2018 22:48

Instrument :

MSVOA_N

ClientSampleId :

PB113779ZHE#02

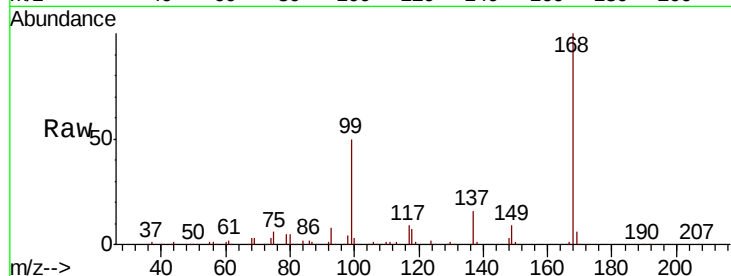
Tot Ion: 75 Resp: 51572

Ion Ratio Lower Upper

75 100

110 10.7 18.1 54.4#

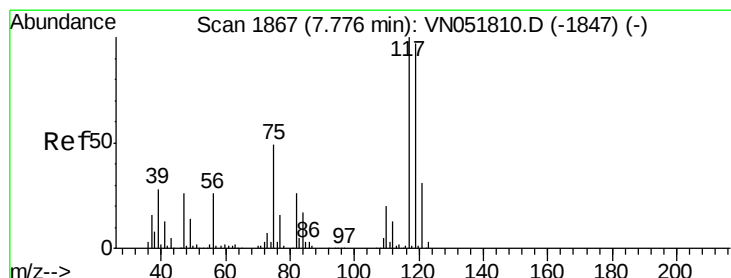
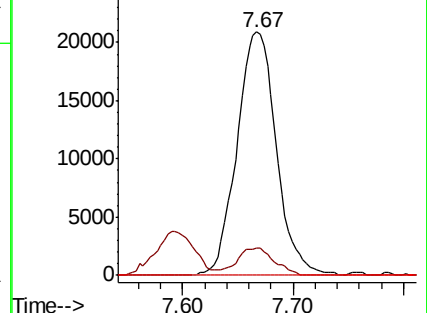
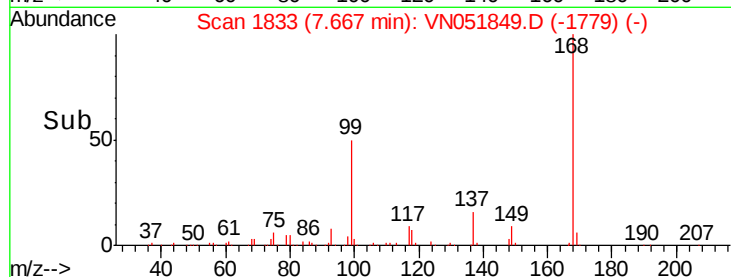
77 0.0 24.8 37.2#



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: 6.552 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN051849.D

Acq: 12 Oct 2018 22:48

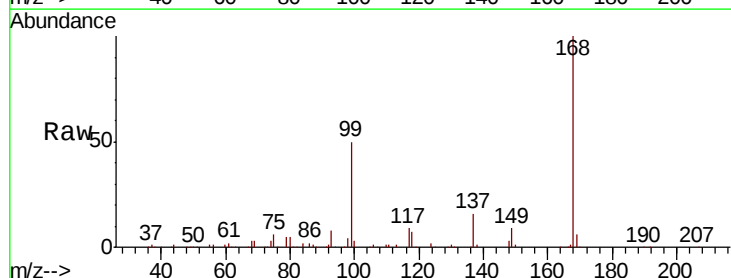
Tgt Ion:117 Resp: 71999

Ion Ratio Lower Upper

117 100

119 5.1 76.3 114.5#

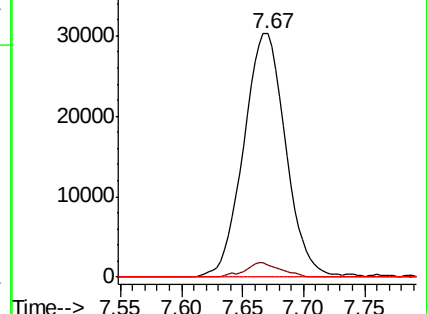
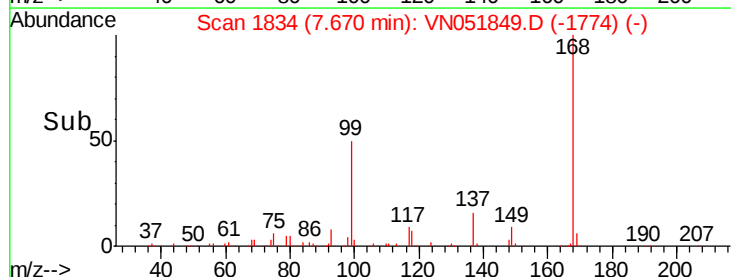
121 0.0 24.6 36.8#

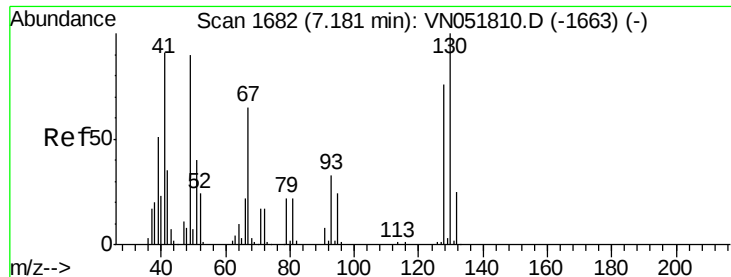


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

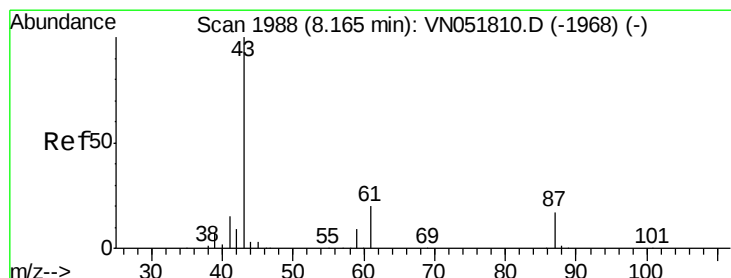
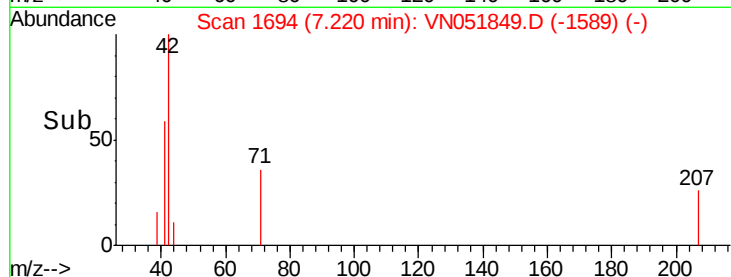
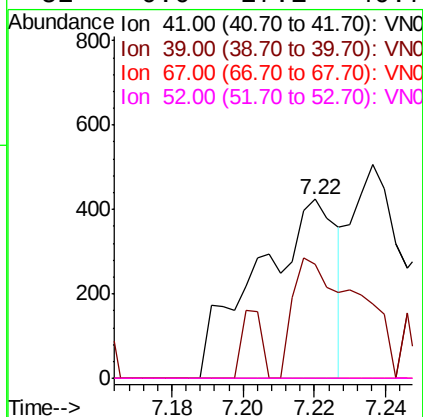
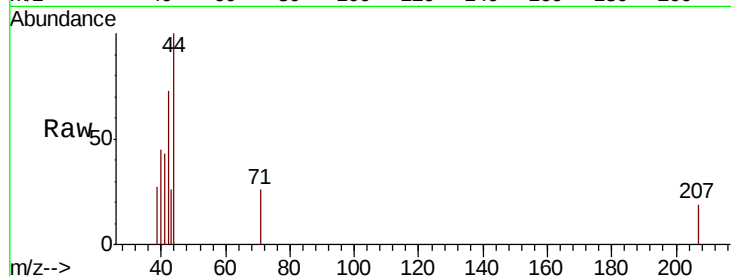




#41
Methacrylonitrile
Concen: 0.278 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.04 min
Lab File: VN051849.D
Acq: 12 Oct 2018 22:48

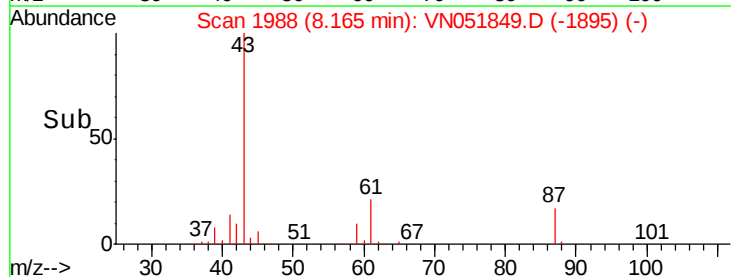
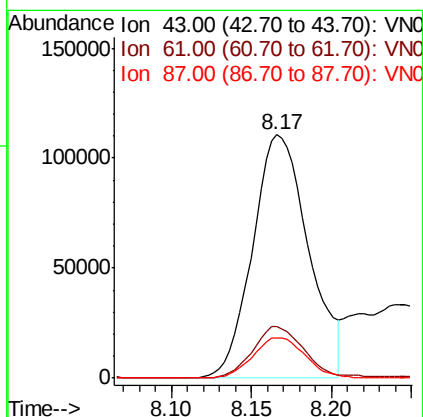
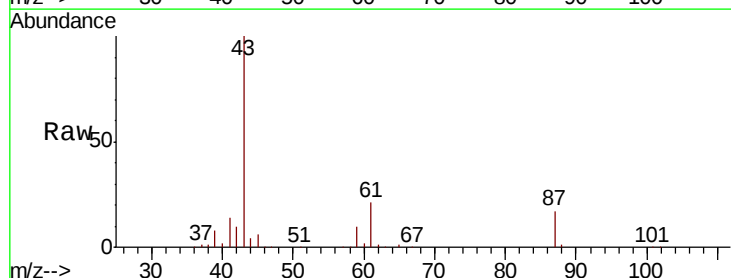
Instrument :
MSVOA_N
ClientSampleId :
PB113779ZHE#02

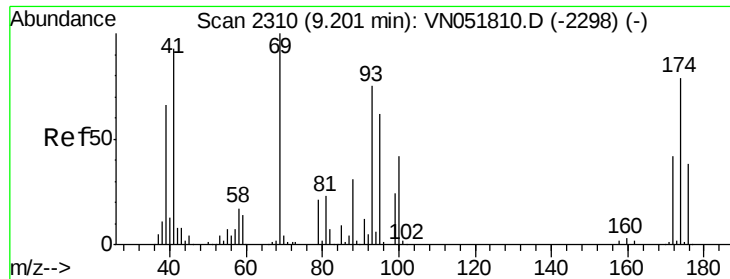
Tot Ion: 41 Resp: 653
Ion Ratio Lower Upper
41 100
39 60.6 45.4 68.0
67 0.0 70.6 106.0#
52 0.0 27.1 40.7#



#43
Isopropyl Acetate
Concen: 27.388 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN051849.D
Acq: 12 Oct 2018 22:48

Tgt Ion: 43 Resp: 268389
Ion Ratio Lower Upper
43 100
61 19.7 17.5 26.3
87 15.6 11.3 16.9





#48

Methvl methacrylate

Concen: 1.215 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. -0.02 min

Lab File: VN051849.D

Acq: 12 Oct 2018 22:48

Instrument :

MSVOA_N

ClientSampleId :

PB113779ZHE#02

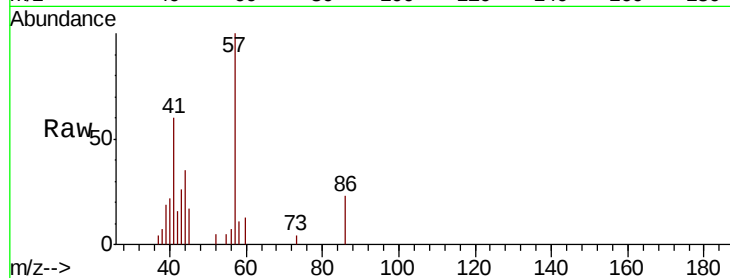
Tot Ion: 41 Resp: 5268

Ion Ratio Lower Upper

41 100

69 0.0 74.7 112.1#

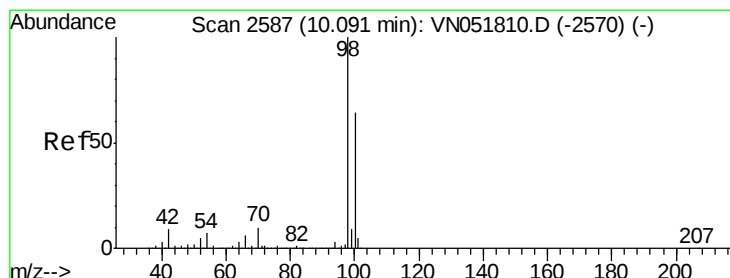
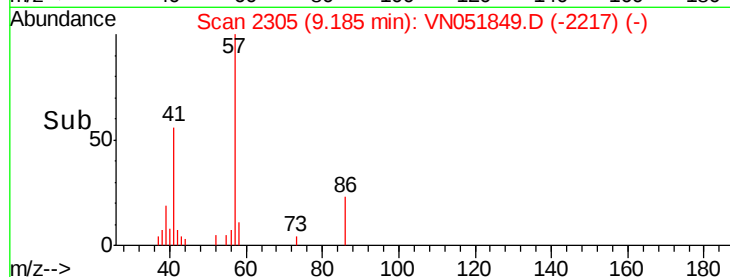
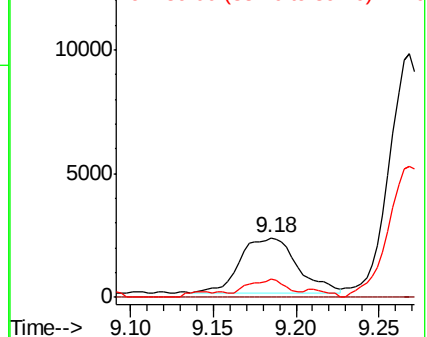
39 20.9 42.2 63.2#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051849.D

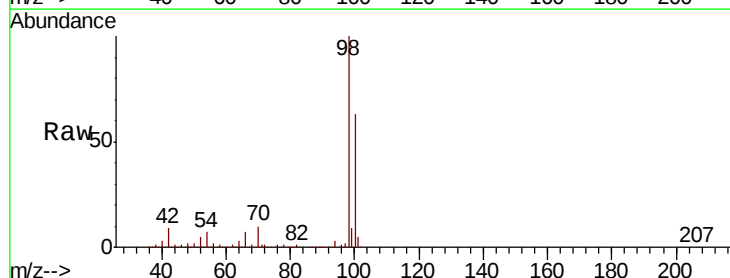
Acq: 12 Oct 2018 22:48

Tgt Ion: 98 Resp: 1617735

Ion Ratio Lower Upper

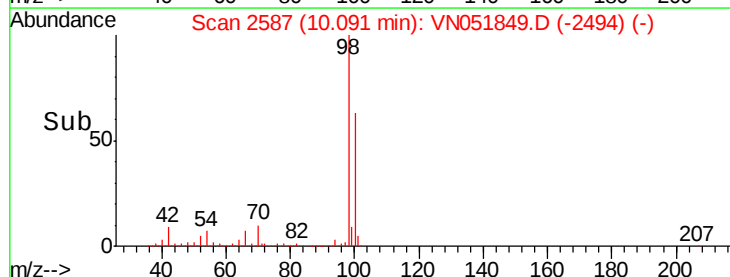
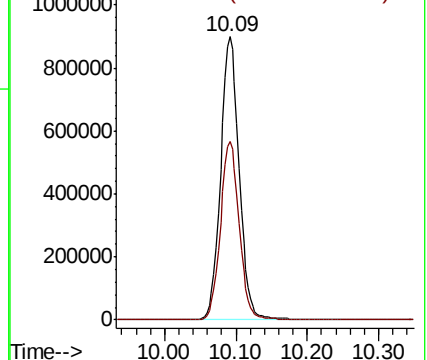
98 100

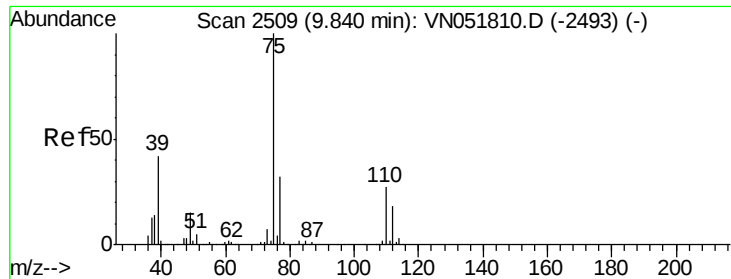
100 63.8 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#54

cis-1,3-Dichloropropene

Concen: 0.218 ug/l

RT: 9.91 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN051849.D

Acq: 12 Oct 2018 22:48

Instrument :

MSVOA_N

ClientSampleId :

PB113779ZHE#02

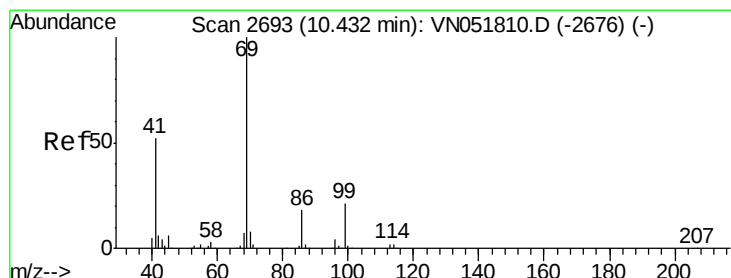
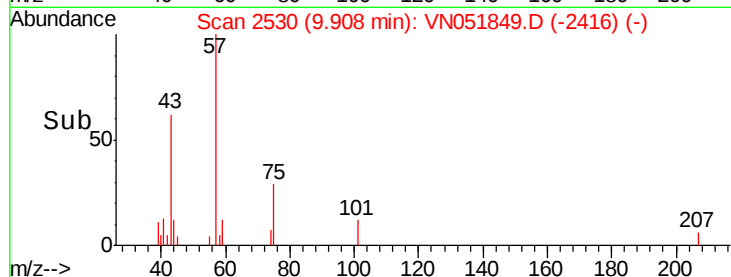
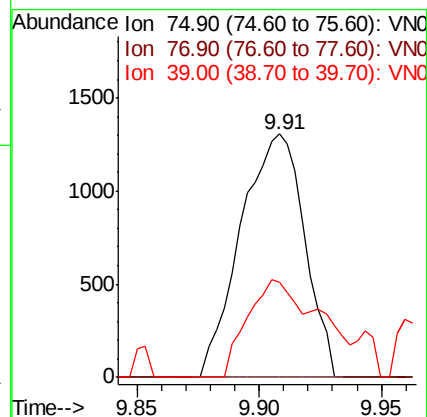
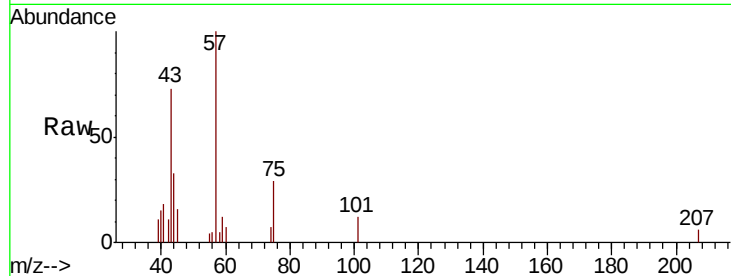
Tot Ion: 75 Resp: 2367

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#

39 39.2 33.0 49.4



#56

Ethyl methacrylate

Concen: 0.254 ug/l

RT: 10.22 min Scan# 2628

Delta R.T. -0.21 min

Lab File: VN051849.D

Acq: 12 Oct 2018 22:48

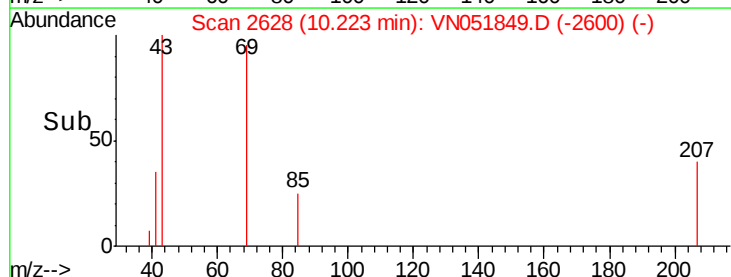
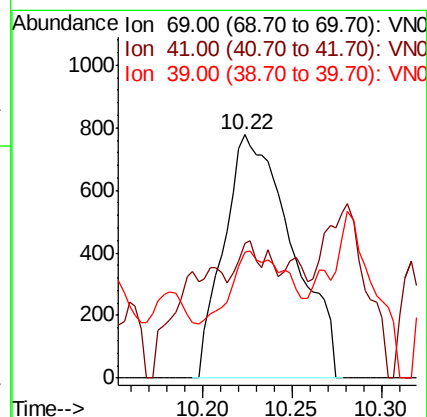
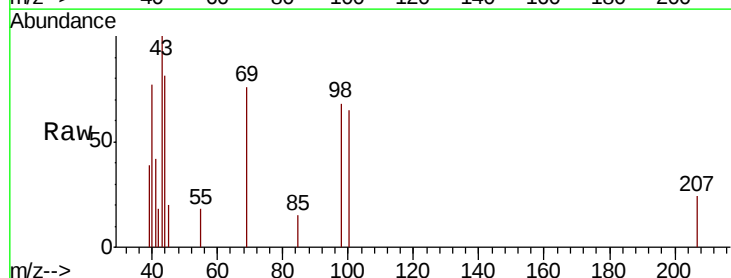
Tgt Ion: 69 Resp: 2066

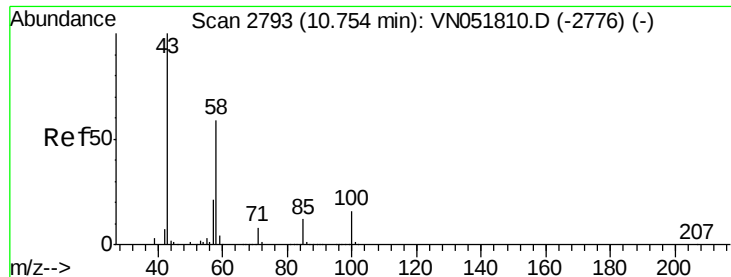
Ion Ratio Lower Upper

69 100

41 0.0 48.3 72.5#

39 30.7 24.0 36.0

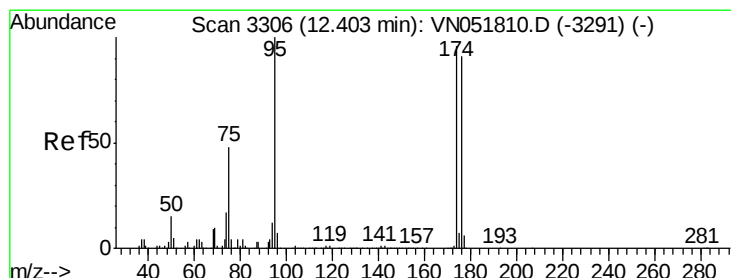
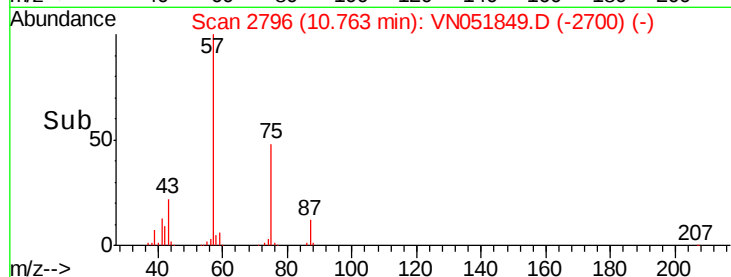
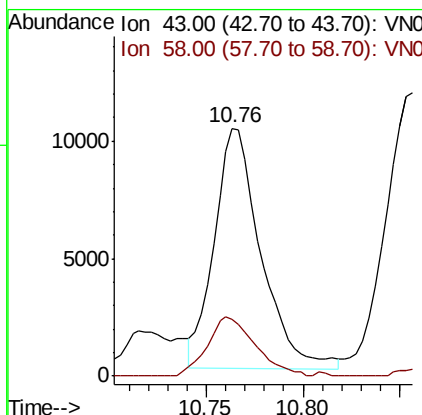
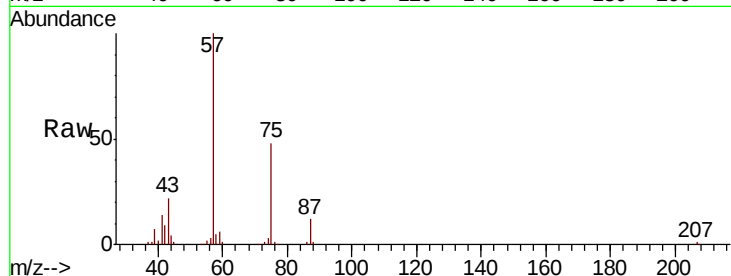




#59
2-Hexanone
Concen: 4.849 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN051849.D
Acq: 12 Oct 2018 22:48

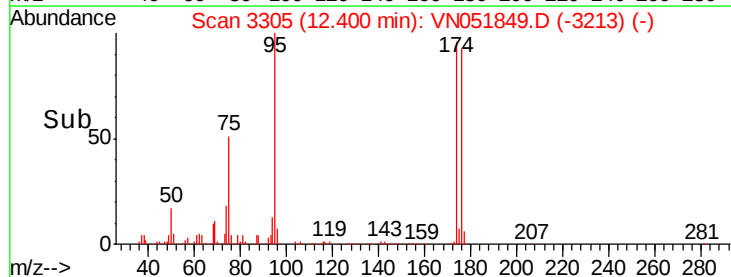
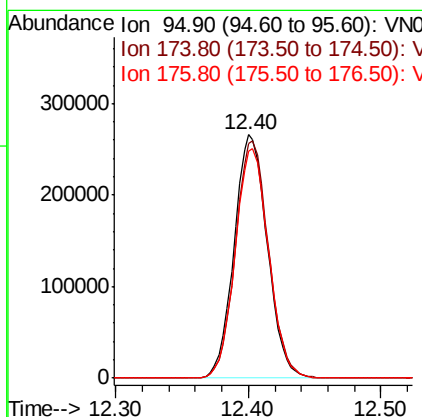
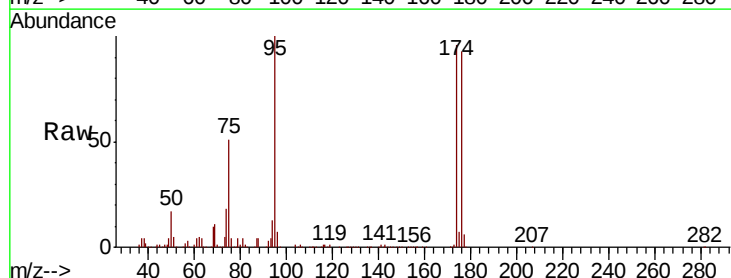
Instrument :
MSVOA_N
ClientSampleId :
PB113779ZHE#02

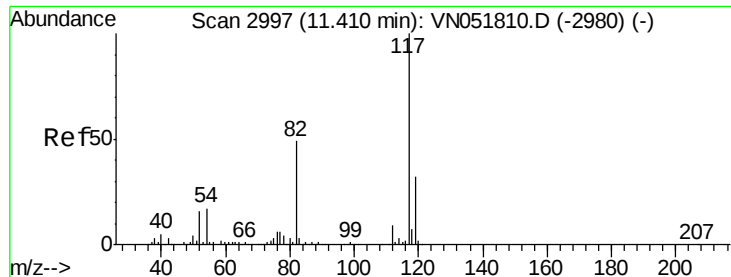
Tot Ion: 43 Resp: 17207
Ion Ratio Lower Upper
43 100
58 25.3 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN051849.D
Acq: 12 Oct 2018 22:48

Tgt Ion: 95 Resp: 460792
Ion Ratio Lower Upper
95 100
174 97.5 0.0 183.0
176 95.3 0.0 178.8

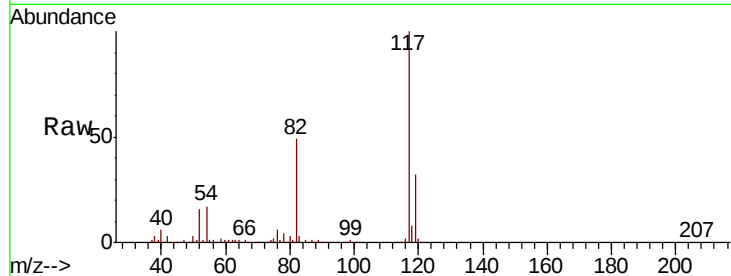




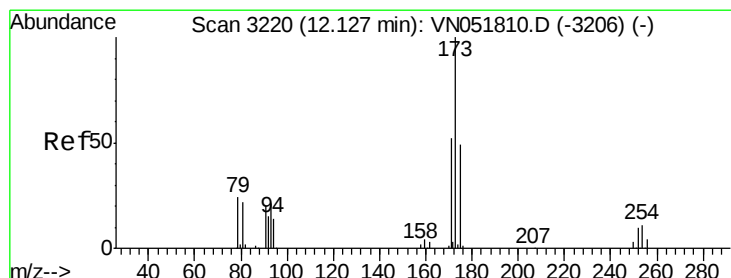
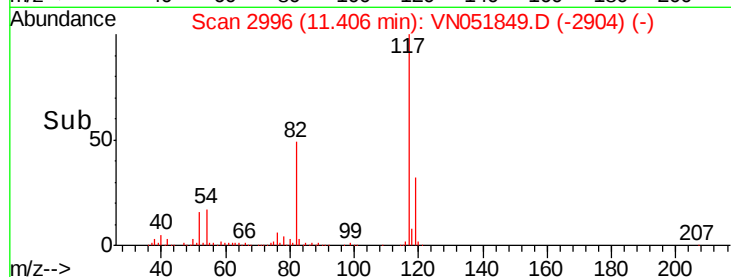
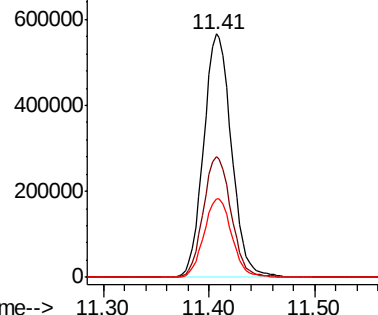
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051849.D
Acq: 12 Oct 2018 22:48

Instrument :
MSVOA_N
ClientSampleId :
PB113779ZHE#02

Tot Ion:117 Resp: 1036712
Ion Ratio Lower Upper
117 100
82 49.5 42.6 64.0
119 32.4 25.8 38.6

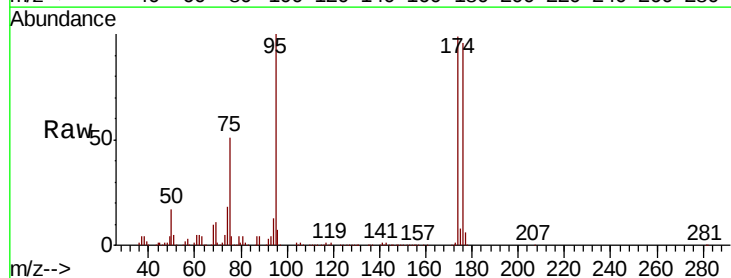


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

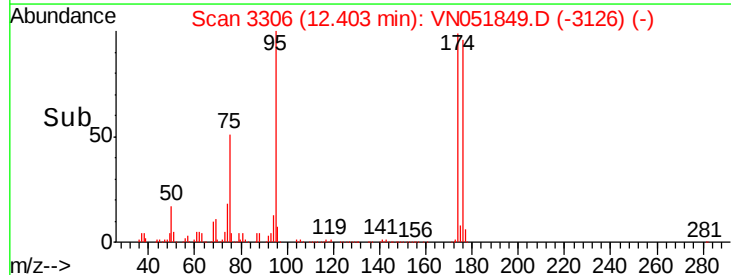
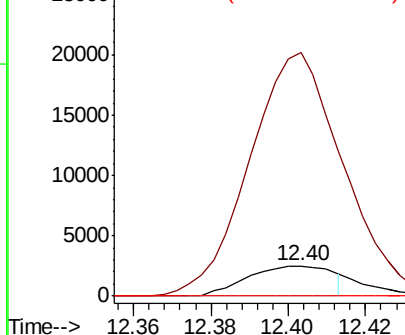


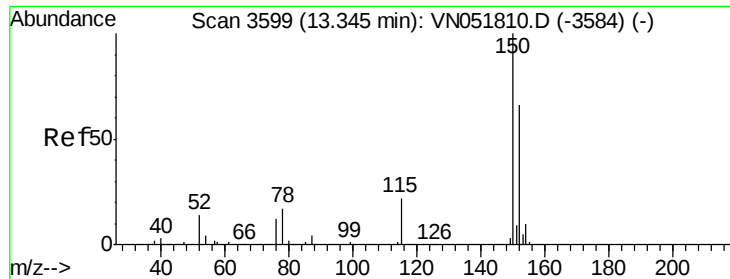
#71
Bromoform
Concen: 4.139 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN051849.D
Acq: 12 Oct 2018 22:48

Tgt Ion:173 Resp: 3794
Ion Ratio Lower Upper
173 100
175 761.1 24.4 73.4#
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051849.D

Acq: 12 Oct 2018 22:48

Instrument :

MSVOA_N

ClientSampleId :

PB113779ZHE#02

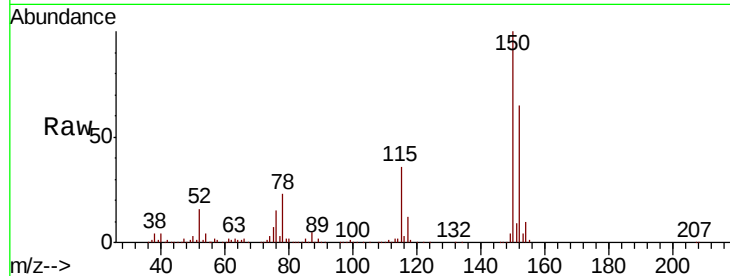
Tot Ion:152 Resp: 383856

Ion Ratio Lower Upper

152 100

115 55.7 27.8 83.4

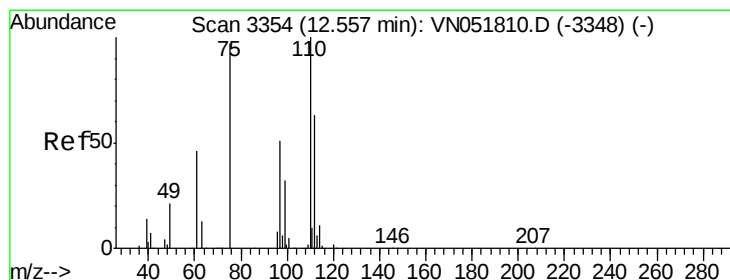
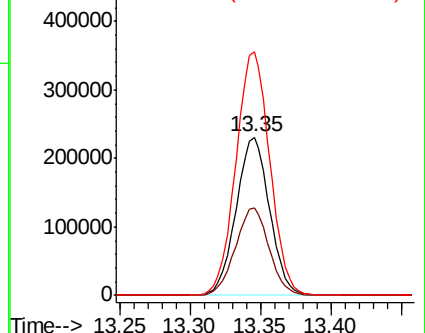
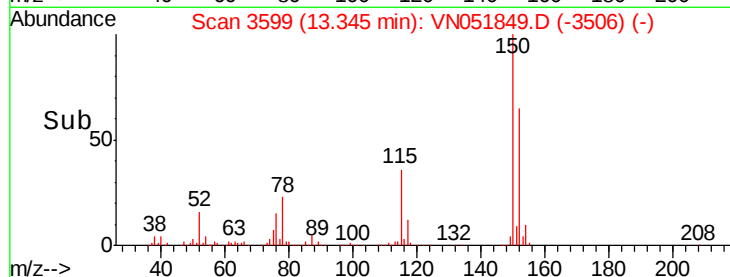
150 156.4 0.0 351.4



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: 49.653 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.16 min

Lab File: VN051849.D

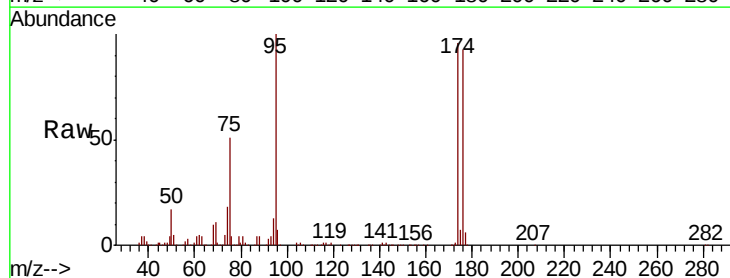
Acq: 12 Oct 2018 22:48

Tgt Ion: 75 Resp: 235168

Ion Ratio Lower Upper

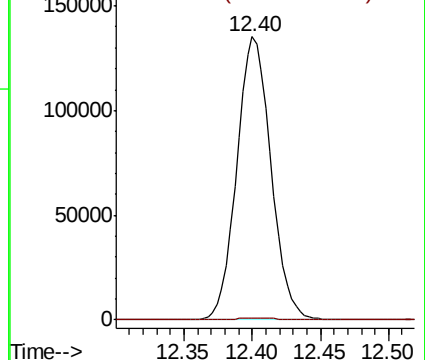
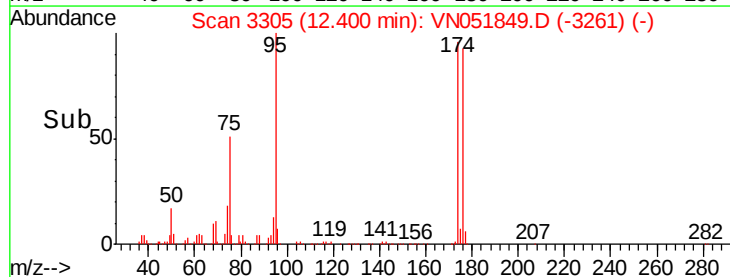
75 100

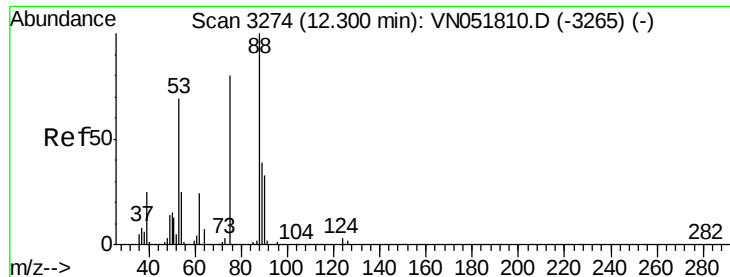
77 0.8 0.0 0.0#



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: 141.080 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051849.D

Acq: 12 Oct 2018 22:48

Instrument :

MSVOA_N

ClientSampleId :

PB113779ZHE#02

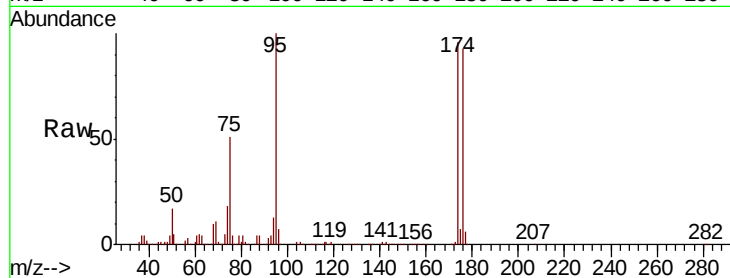
Tot Ion: 75 Resp: 235168

Ion Ratio Lower Upper

75 100

53 0.0 68.9 103.3#

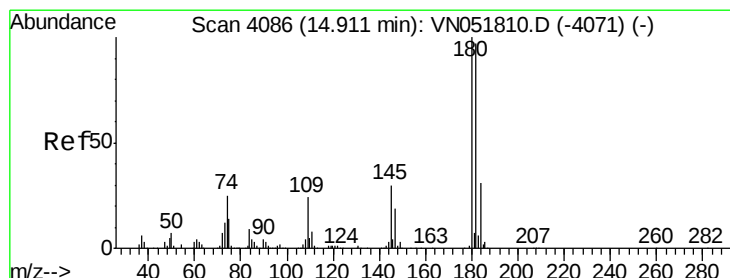
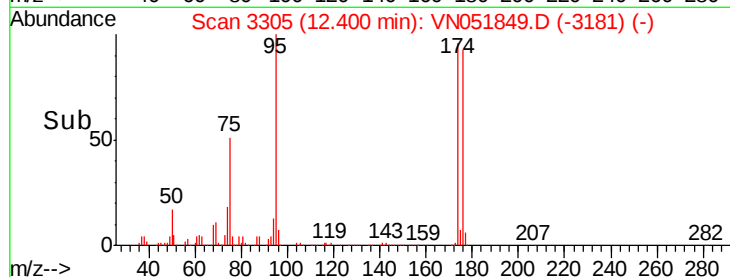
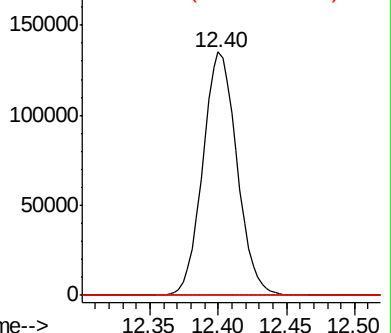
89 0.0 36.1 54.1#



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



#93

1,2,4-Trichlorobenzene

Concen: 3.659 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. -0.00 min

Lab File: VN051849.D

Acq: 12 Oct 2018 22:48

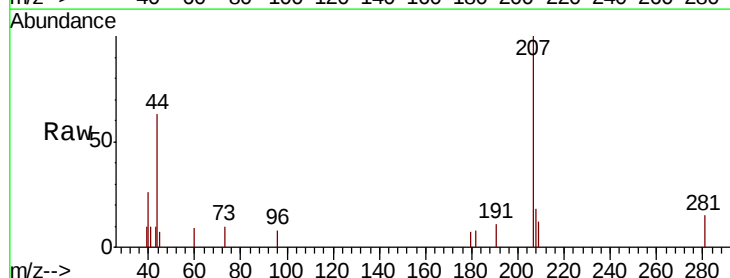
Tgt Ion:180 Resp: 30

Ion Ratio Lower Upper

180 100

182 210.0 48.2 144.6#

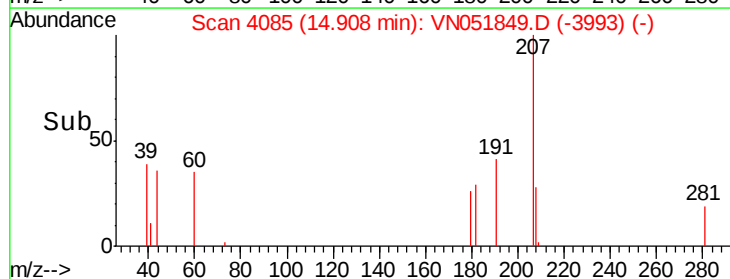
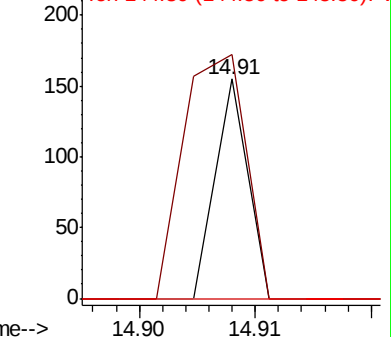
145 0.0 14.1 42.2#

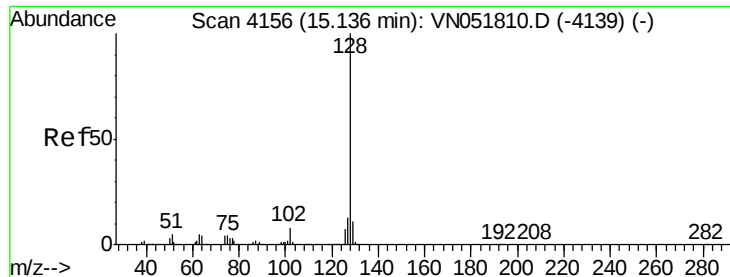


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

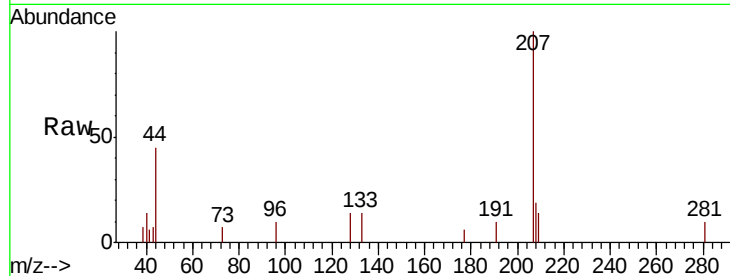




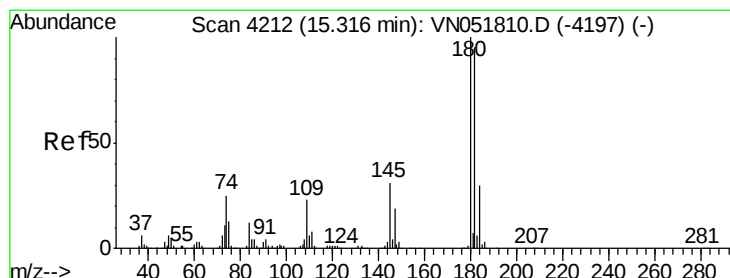
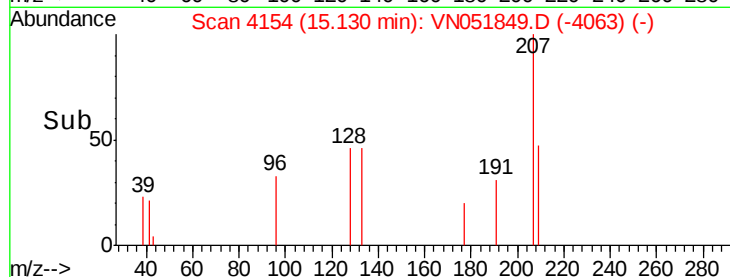
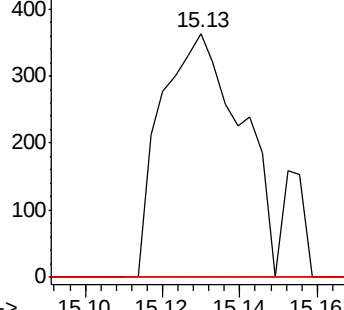
#95
Naphthalene
Concen: 4.430 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.01 min
Lab File: VN051849.D
Acq: 12 Oct 2018 22:48

Instrument :
MSVOA_N
ClientSampleId :
PB113779ZHE#02

Tot Ion:128 Resp: 524
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.7 13.1#

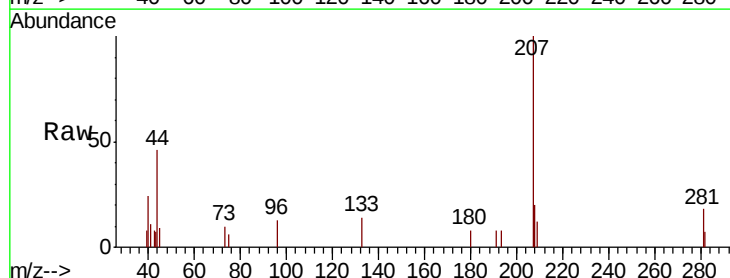


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 2.872 ug/l
RT: 15.32 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN051849.D
Acq: 12 Oct 2018 22:48

Tgt Ion:180 Resp: 102
Ion Ratio Lower Upper
180 100
182 66.7 48.0 144.2
145 0.0 15.2 45.6#



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

