

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071318\
 Data File : VN049803.D
 Acq On : 13 Jul 2018 17:53
 Operator : MD\SY
 Sample : PB111069ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#06

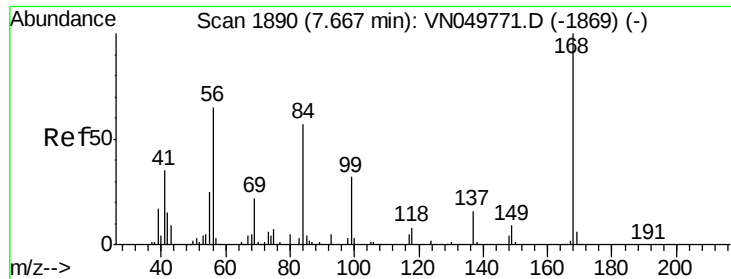
Quant Time: Jul 13 23:52:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 12 15:51:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1181787	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1929244	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1589500	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	597080	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	793529	57.72	ug/l	0.00
Spiked Amount			Recovery	=	115.44%	
35) Dibromofluoromethane	7.59	113	729013	50.13	ug/l	0.00
Spiked Amount			Recovery	=	100.26%	
50) Toluene-d8	10.09	98	2566680	51.56	ug/l	0.00
Spiked Amount			Recovery	=	103.12%	
62) 4-Bromofluorobenzene	12.40	95	718215	40.40	ug/l	0.00
Spiked Amount			Recovery	=	80.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2360	Below Cal		98
4) Vinyl Chloride	2.18	62	302	Below Cal	#	43
5) Bromomethane	2.57	94	2457	Below Cal	#	80
13) Acrolein	3.61	56	324	0.40	ug/l #	73
16) Acetone	3.83	43	27814	6.19	ug/l	97
17) Carbon Disulfide	4.05	76	3687	Below Cal	#	78
18) Methyl Acetate	4.33	43	72906	5.70	ug/l	99
20) Methylene Chloride	4.56	84	37134	1.75	ug/l	94
25) 2-Butanone	6.85	43	3891	0.73	ug/l	97
29) Tetrahydrofuran	7.22	42	1983	0.59	ug/l #	67
31) Cyclohexane	7.67	56	21774	0.77	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	83803	3.77	ug/l #	48
38) Carbon Tetrachloride	7.67	117	103974	4.47	ug/l #	17
43) Isopropyl Acetate	8.23	43	523924	22.15	ug/l #	63
55) 1,1,2-Trichloroethane	10.58	97	349	Below Cal	#	15
71) Bromoform	12.40	173	4811	0.46	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.42	83	294	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	353503	33.33	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	353503	107.63	ug/l #	13
90) Hexachloroethane	13.94	117	72	Below Cal	#	4
93) 1,2,4-Trichlorobenzene	14.90	180	559	2.93	ug/l #	70
95) Naphthalene	15.14	128	1393	4.07	ug/l #	72

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049803.D

Acq: 13 Jul 2018 17:53

Instrument :

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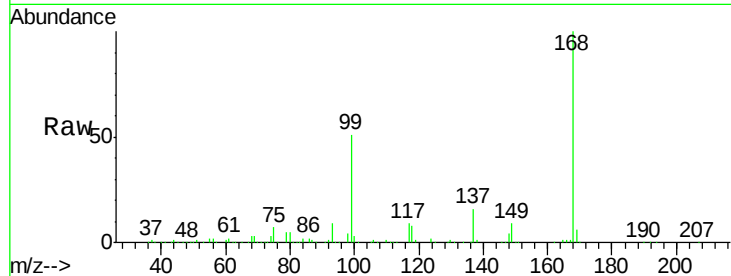
PB111069ZHE#06

Tot Ion:168 Resp: 1181787

Ion Ratio Lower Upper

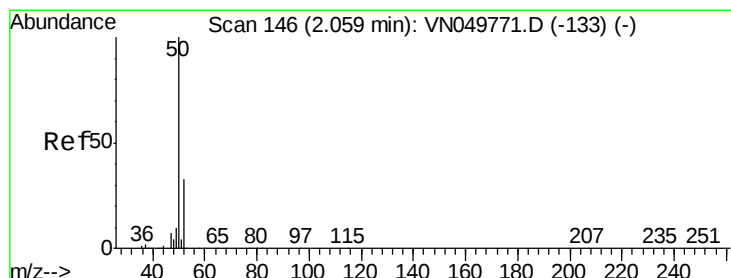
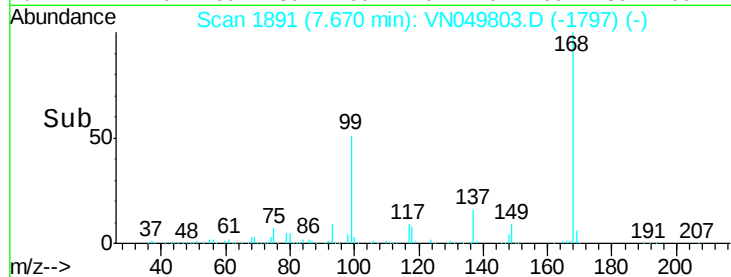
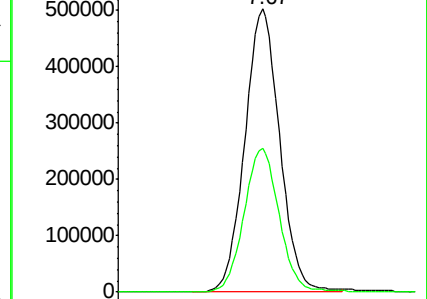
168 100

99 50.7 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN049803.D

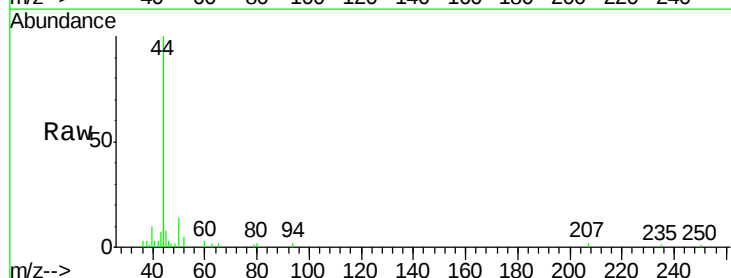
Acq: 13 Jul 2018 17:53

Tgt Ion: 50 Resp: 2360

Ion Ratio Lower Upper

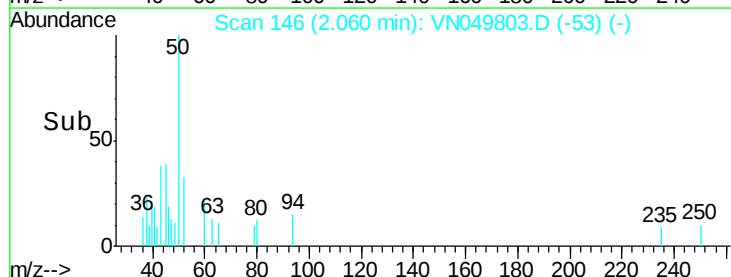
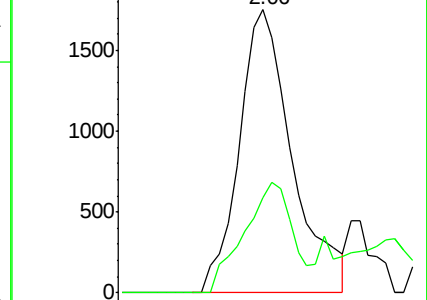
50 100

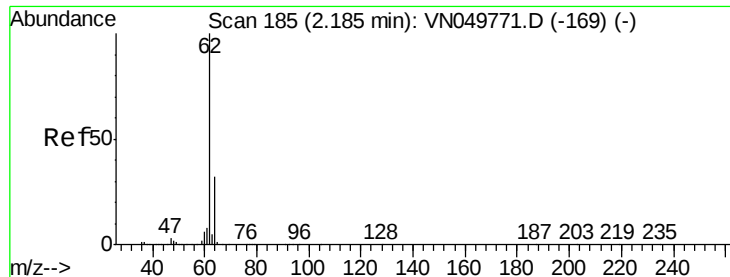
52 33.5 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.18 min Scan# 184

Delta R.T. -0.00 min

Lab File: VN049803.D

Acq: 13 Jul 2018 17:53

Instrument :

MSVOA_N

ClientSampleId :

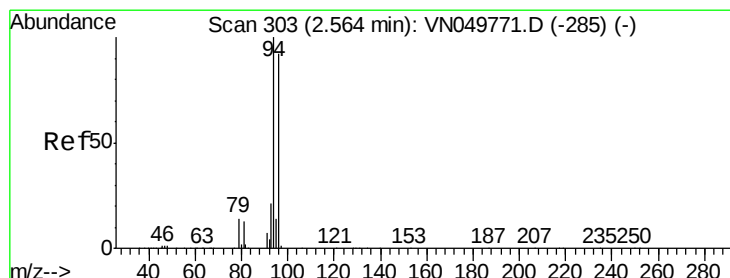
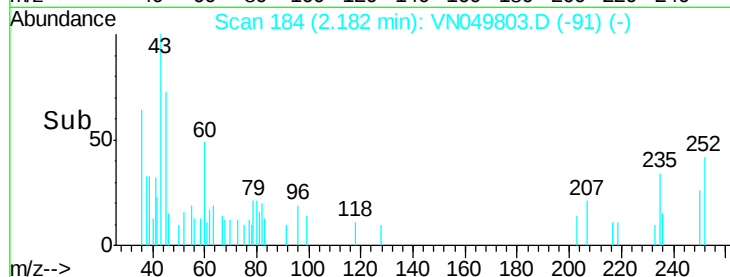
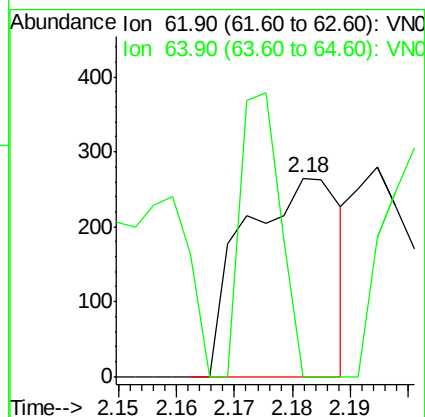
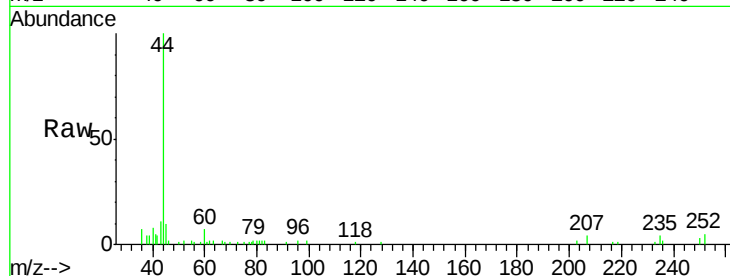
PB111069ZHE#06

Tot Ion: 62 Resp: 302

Ion Ratio Lower Upper

62 100

64 0.0 25.4 38.0#



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.00 min

Lab File: VN049803.D

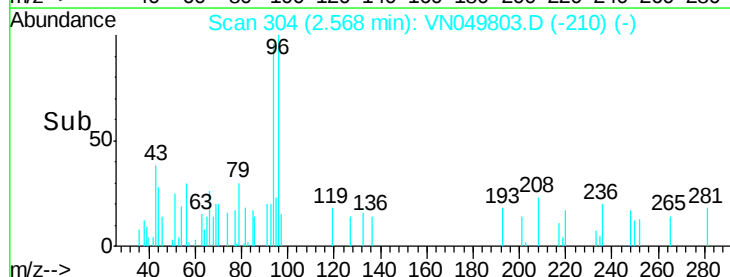
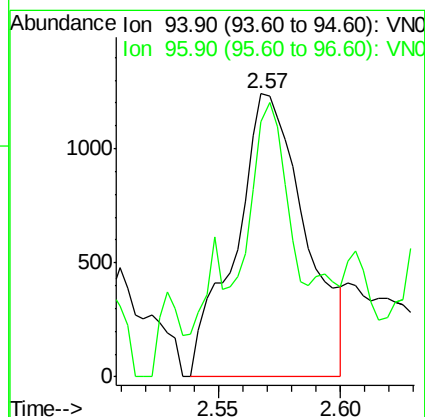
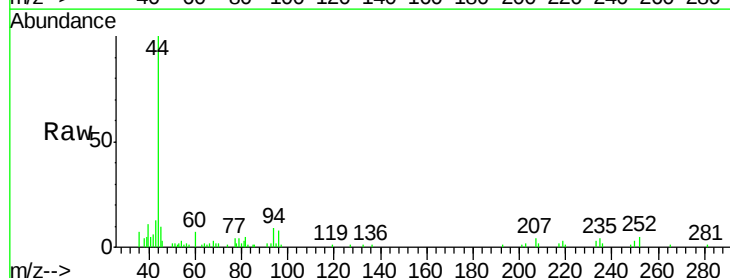
Acq: 13 Jul 2018 17:53

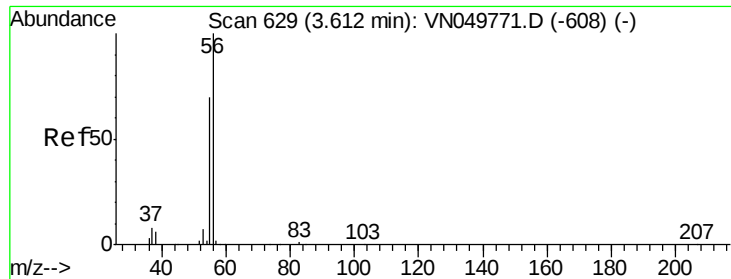
Tgt Ion: 94 Resp: 2457

Ion Ratio Lower Upper

94 100

96 75.2 75.7 113.5#





#13

Acrolein

Concen: 0.40 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN049803.D

Acq: 13 Jul 2018 17:53

Instrument :

MSVOA_N

ClientSampleId :

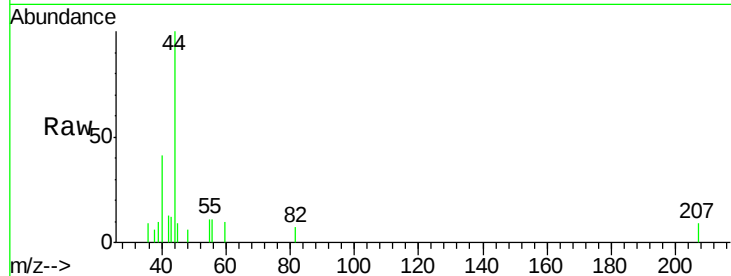
PB111069ZHE#06

Tot Ion: 56 Resp: 324

Ion Ratio Lower Upper

56 100

55 92.0 55.8 83.8#



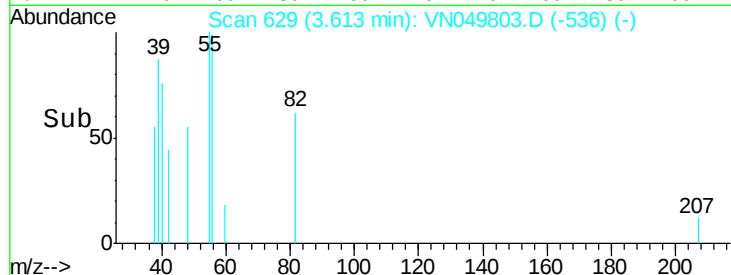
Abundance Ion 56.00 (55.70 to 56.70): VN049771.D (-608) (-)

Ion 55.00 (54.70 to 55.70): VN049771.D (-608) (-)

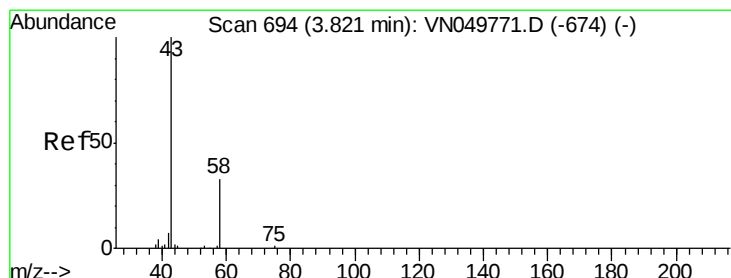
3.61

3.62

3.63



Time-->



#16

Acetone

Concen: 6.19 ug/l

RT: 3.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN049803.D

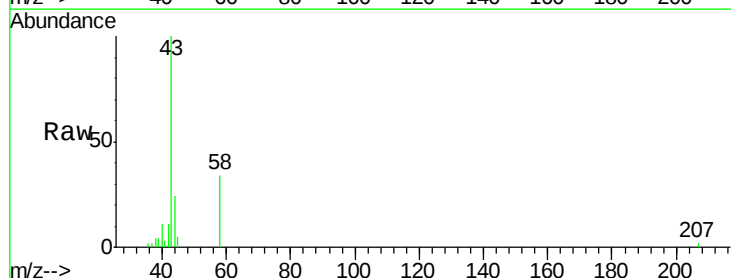
Acq: 13 Jul 2018 17:53

Tgt Ion: 43 Resp: 27814

Ion Ratio Lower Upper

43 100

58 33.9 25.9 38.9



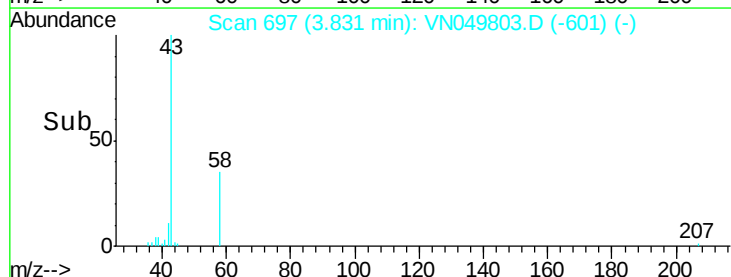
Abundance Ion 43.00 (42.70 to 43.70): VN049771.D (-674) (-)

Ion 58.00 (57.70 to 58.70): VN049771.D (-674) (-)

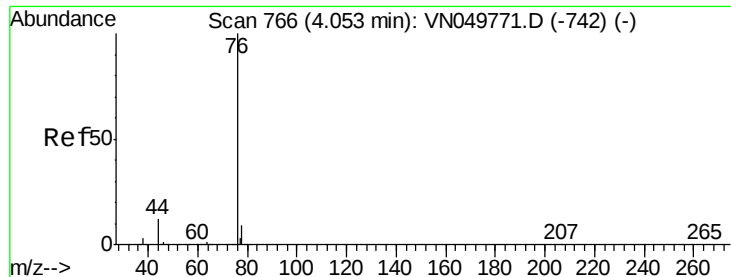
3.83

3.85

3.90



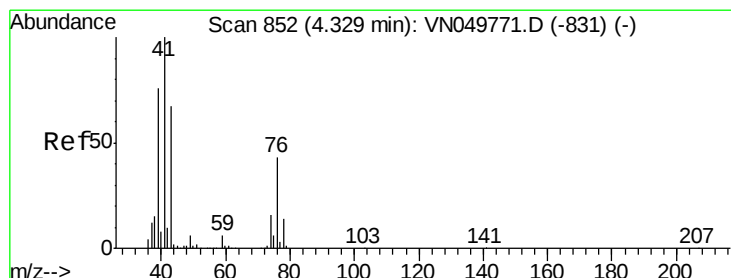
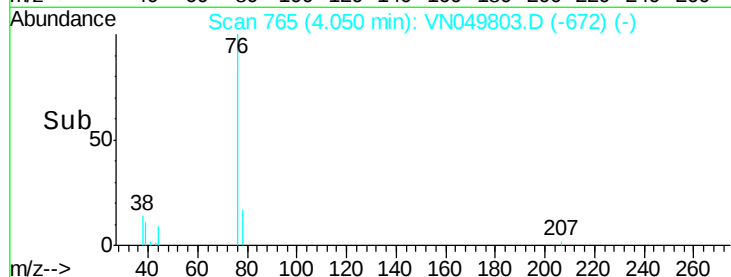
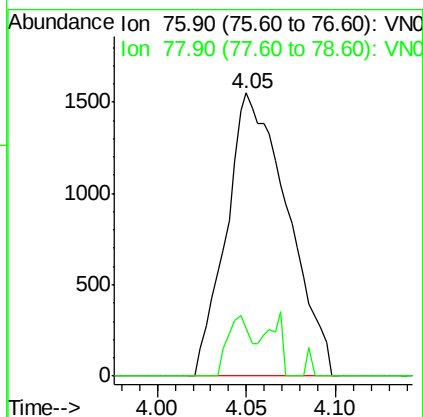
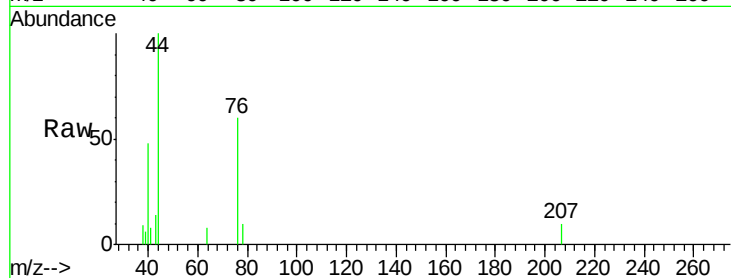
Time-->



#17
Carbon Disulfide
Concen: Below Cal
RT: 4.05 min Scan# 765
Delta R.T. -0.00 min
Lab File: VN049803.D
Acq: 13 Jul 2018 17:53

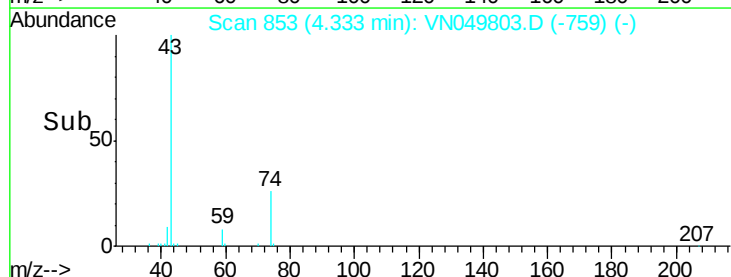
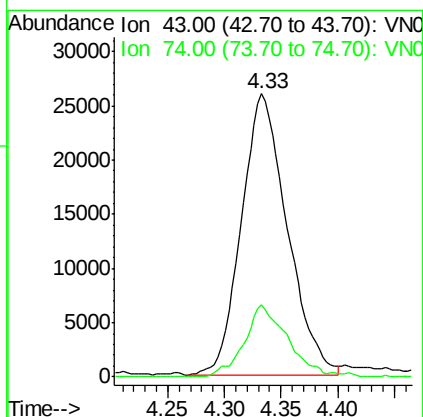
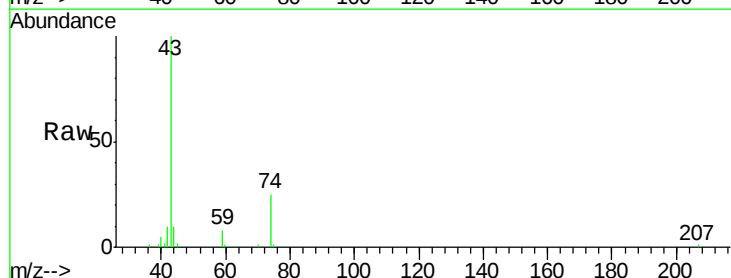
Instrument :
MSVOA_N
ClientSampleId :
PB111069ZHE#06

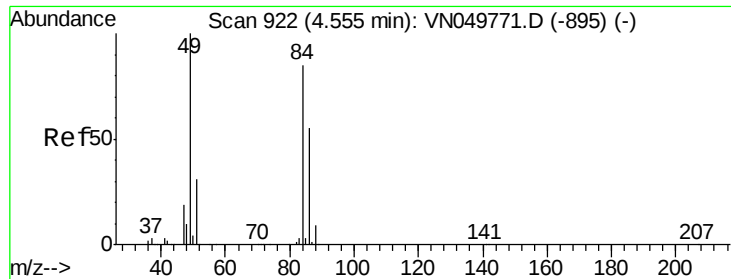
Tot Ion: 76 Resp: 3687
Ion Ratio Lower Upper
76 100
78 16.9 7.1 10.7#



#18
Methyl Acetate
Concen: 5.70 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.00 min
Lab File: VN049803.D
Acq: 13 Jul 2018 17:53

Tgt Ion: 43 Resp: 72906
Ion Ratio Lower Upper
43 100
74 24.1 19.8 29.8

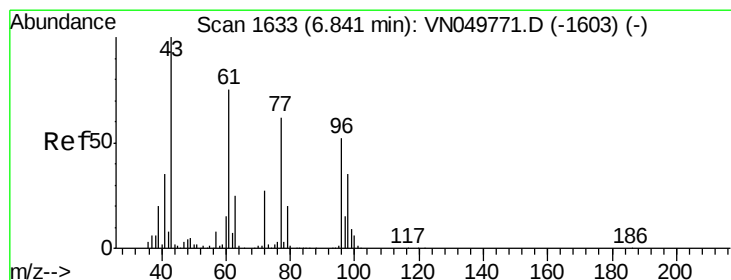
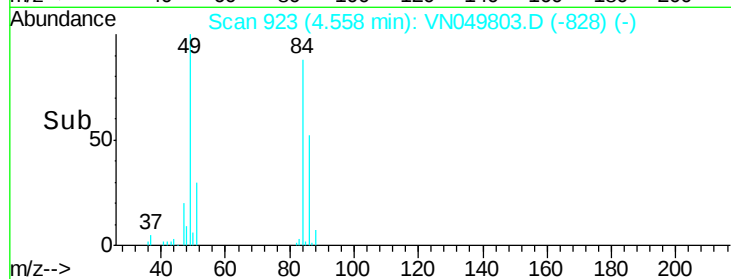
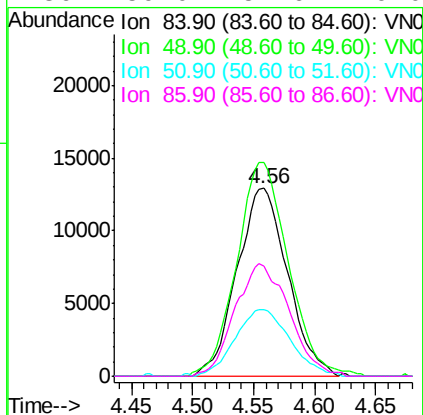
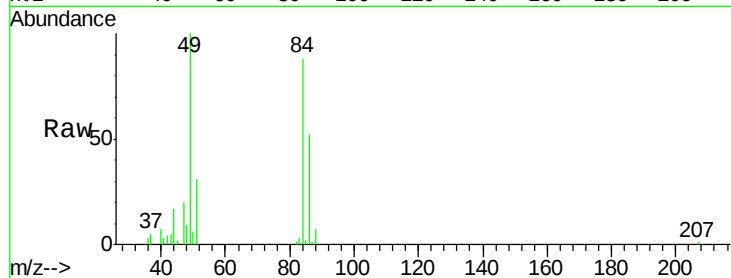




#20
Methvlene Chloride
Concen: 1.75 ug/l
RT: 4.56 min Scan# 923
Delta R.T. 0.00 min
Lab File: VN049803.D
Acq: 13 Jul 2018 17:53

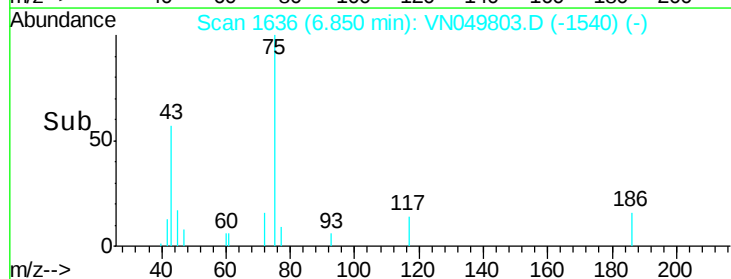
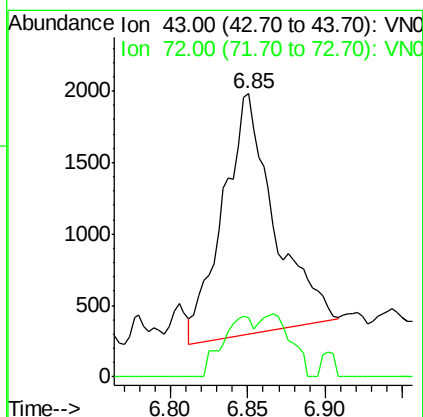
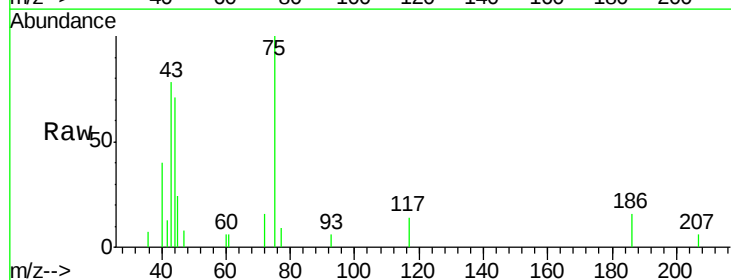
Instrument :
MSVOA_N
ClientSampleId :
PB111069ZHE#06

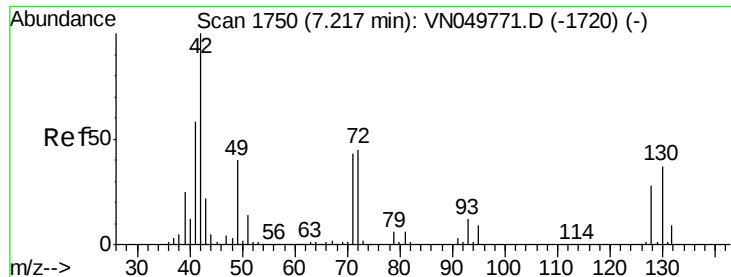
Tot Ion: 84 Resp: 37134
Ion Ratio Lower Upper
84 100
49 113.7 95.4 143.2
51 34.1 28.4 42.6
86 59.0 52.6 79.0



#25
2-Butanone
Concen: 0.73 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN049803.D
Acq: 13 Jul 2018 17:53

Tgt Ion: 43 Resp: 3891
Ion Ratio Lower Upper
43 100
72 26.2 22.1 33.1

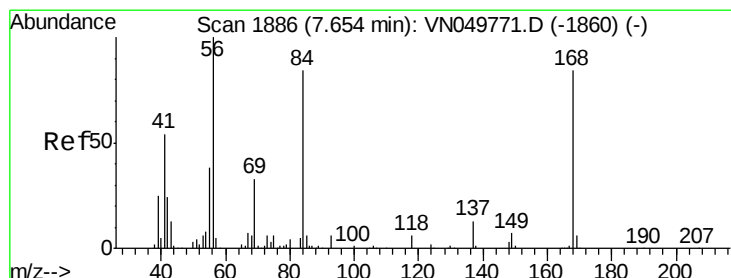
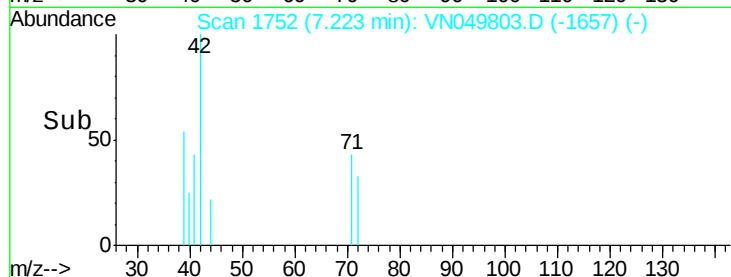
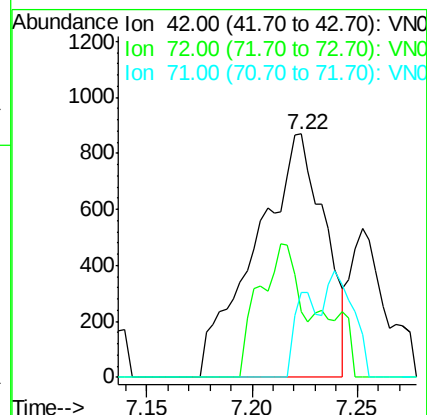
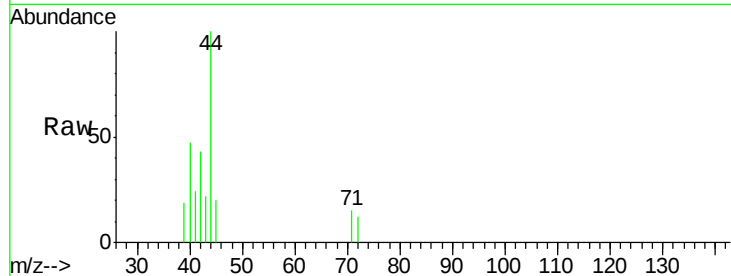




#29
Tetrahydrofuran
Concen: 0.59 ug/l
RT: 7.22 min Scan# 1752
Delta R.T. 0.01 min
Lab File: VN049803.D
Acq: 13 Jul 2018 17:53

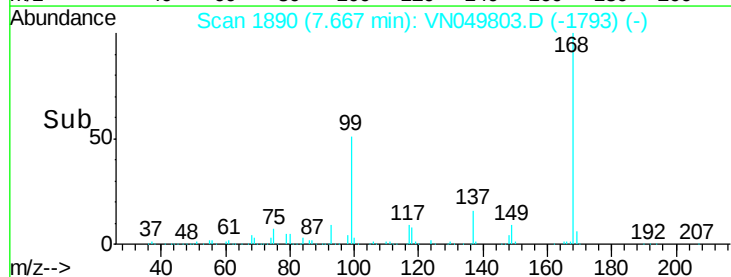
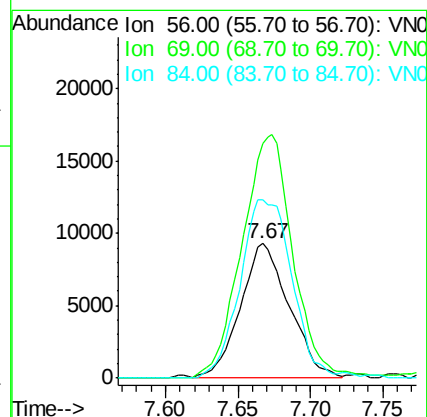
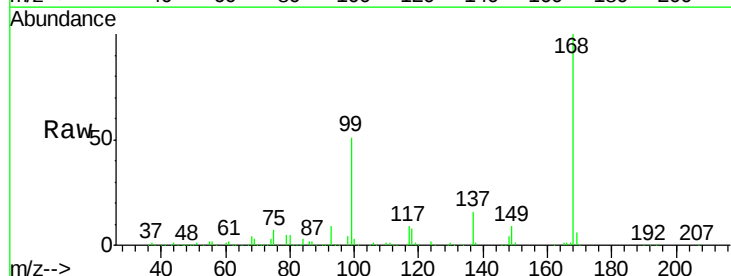
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MSVOA_N
ClientSampleId :
PB111069ZHE#06

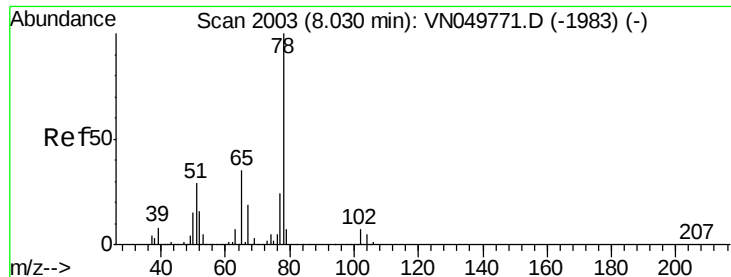
Tot Ion: 42 Resp: 1983
Ion Ratio Lower Upper
42 100
72 31.9 35.6 53.4#
71 12.4 34.0 51.0#



#31
Cyclohexane
Concen: 0.77 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049803.D
Acq: 13 Jul 2018 17:53

Tgt Ion: 56 Resp: 21774
Ion Ratio Lower Upper
56 100
69 174.1 26.6 40.0#
84 132.4 69.0 103.6#

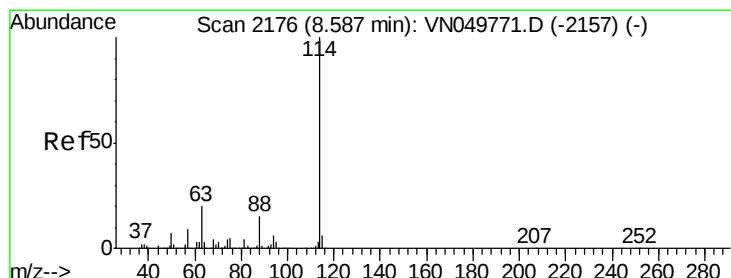
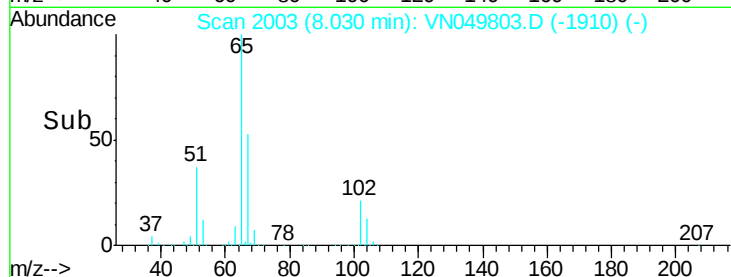
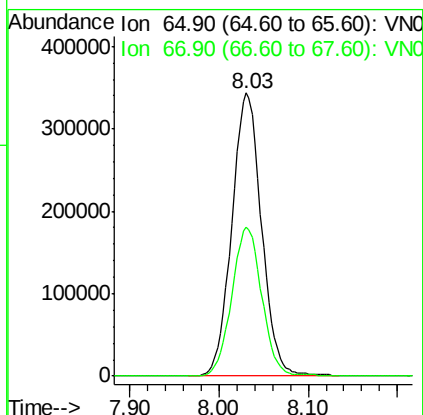
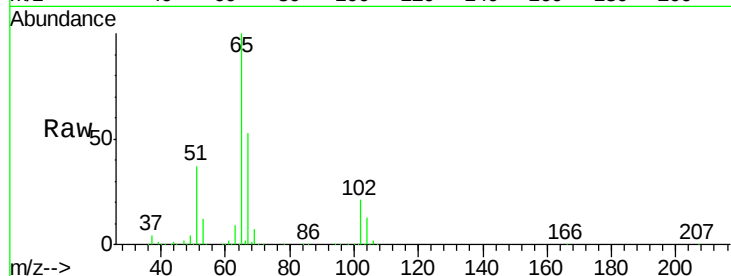




#33
 1,2-Dichloroethane-d4
 Concen: 57.72 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049803.D
 Acq: 13 Jul 2018 17:53

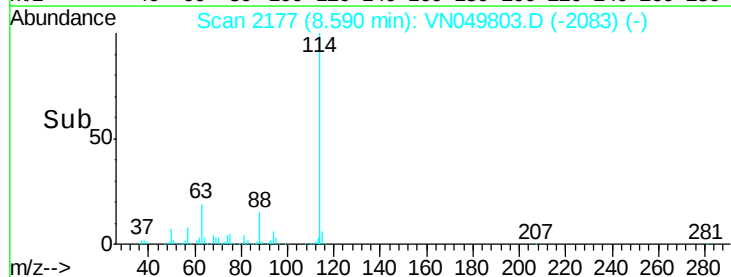
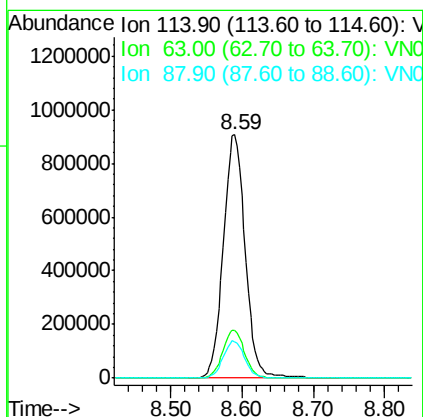
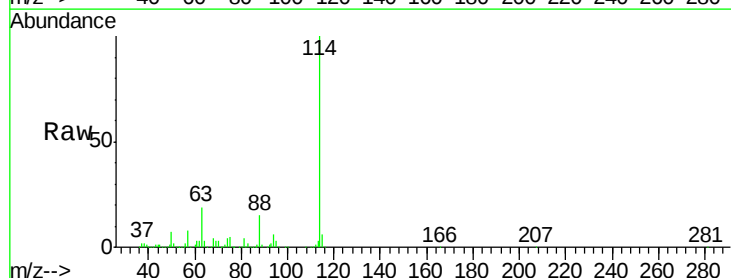
Instrument :
 MSVOA_N
 ClientSampleId :
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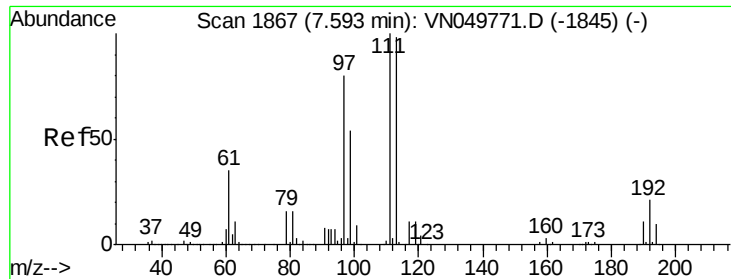
Tot Ion: 65 Resp: 793529
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049803.D
 Acq: 13 Jul 2018 17:53

Tgt Ion: 114 Resp: 1929244
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.8
 88 15.0 0.0 30.6

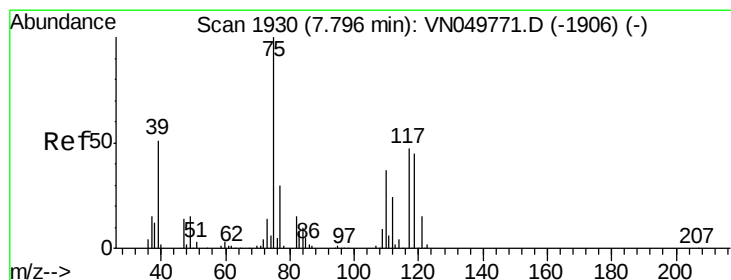
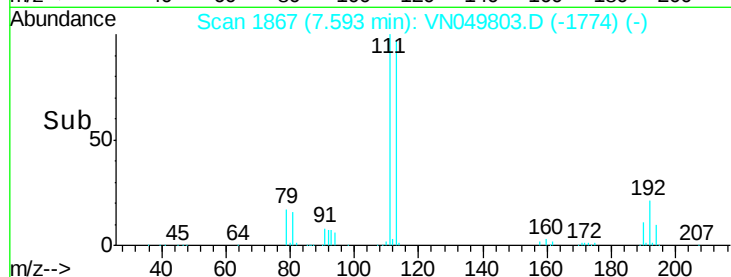
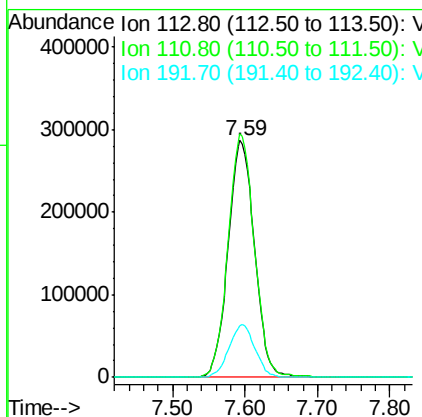
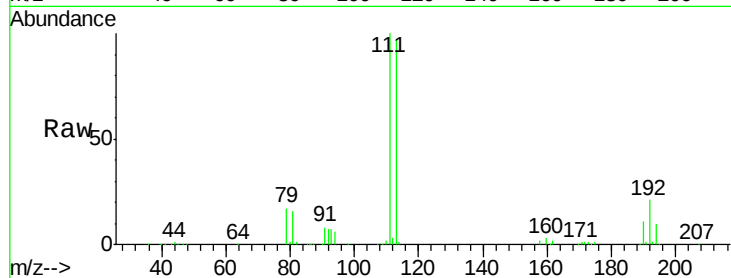




#35
 Dibromofluoromethane
 Concen: 50.13 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049803.D
 Acq: 13 Jul 2018 17:53

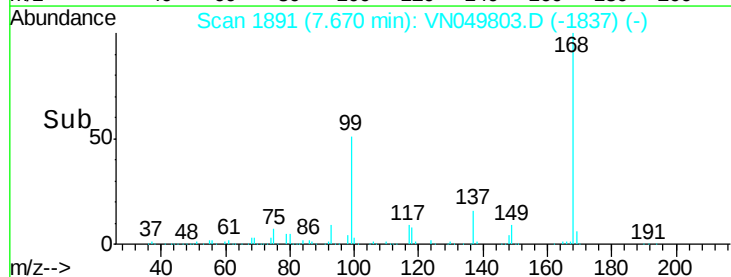
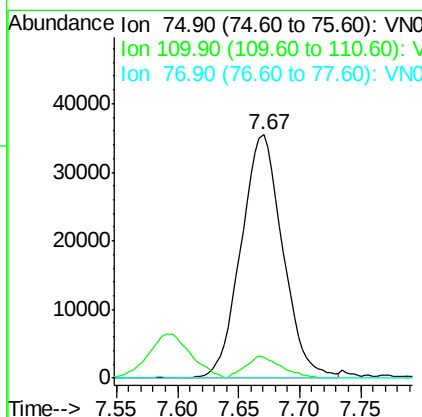
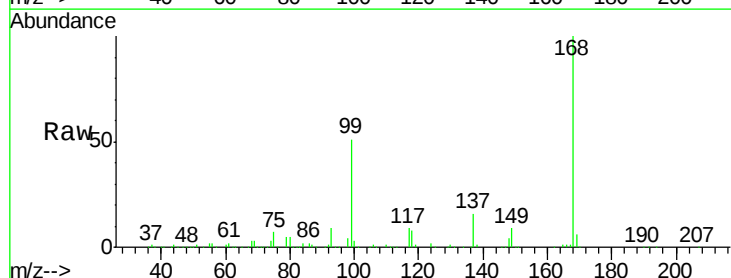
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#06

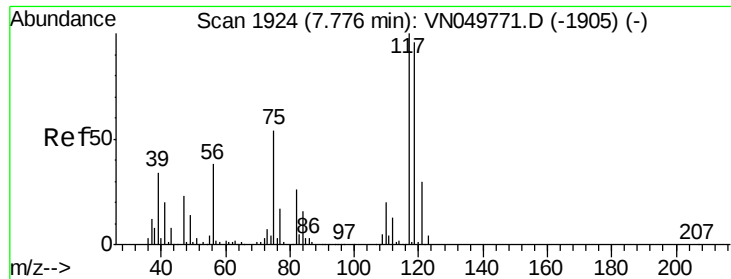
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.8	122.8
192	21.9	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 3.77 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.13 min
 Lab File: VN049803.D
 Acq: 13 Jul 2018 17:53

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.7	18.1	54.4#
77	0.0	24.9	37.3#

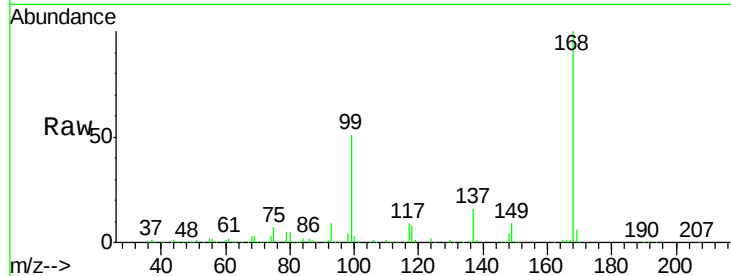




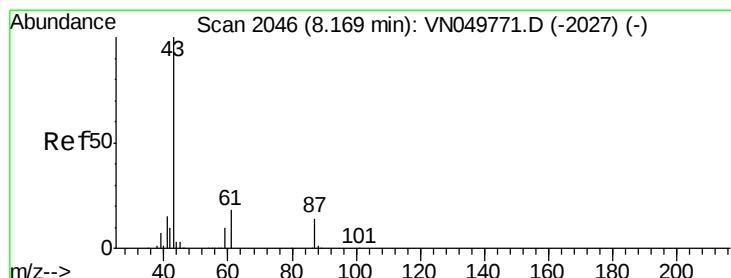
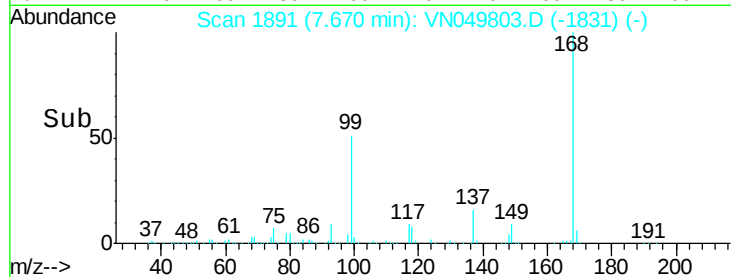
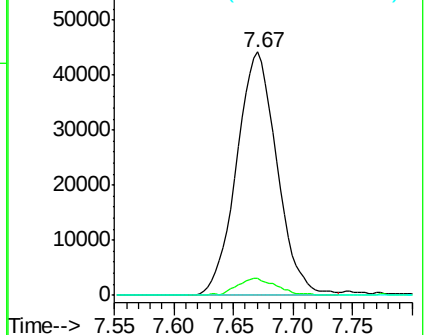
#38
Carbon Tetrachloride
Concen: 4.47 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN049803.D
Acq: 13 Jul 2018 17:53

Instrument :
MSVOA_N
ClientSampleId :
PB111069ZHE#06

Tot Ion:117 Resp: 103974
Ion Ratio Lower Upper
117 100
119 7.0 77.2 115.8#
121 0.0 25.0 37.6#

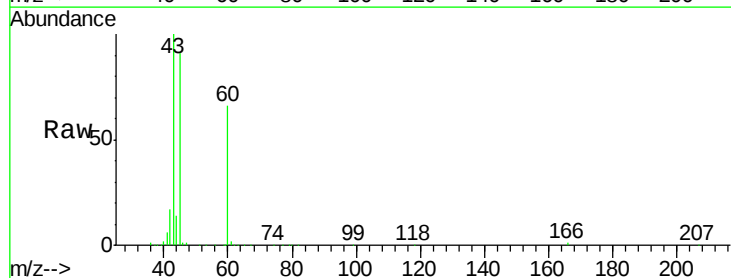


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

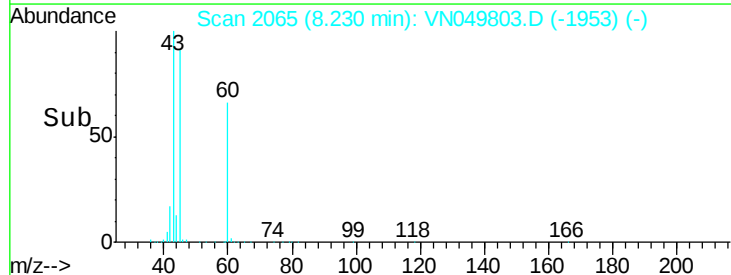
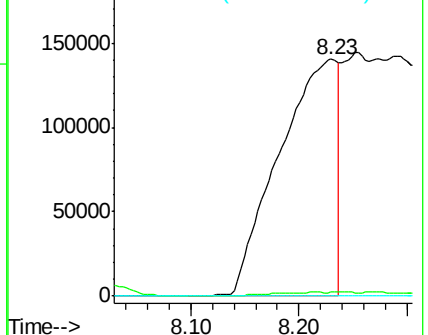


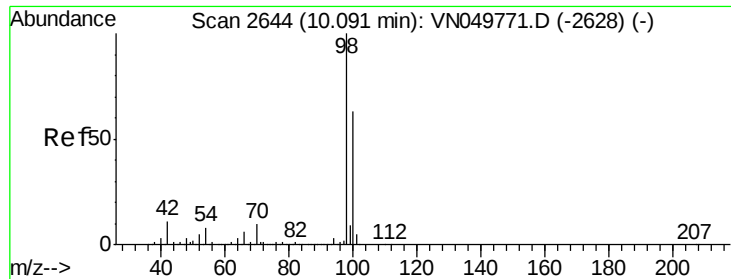
#43
Isopropyl Acetate
Concen: 22.15 ug/l
RT: 8.23 min Scan# 2065
Delta R.T. 0.06 min
Lab File: VN049803.D
Acq: 13 Jul 2018 17:53

Tgt Ion: 43 Resp: 523924
Ion Ratio Lower Upper
43 100
61 0.1 14.9 22.3#
87 0.0 10.0 15.0#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: 51.56 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN049803.D

Acq: 13 Jul 2018 17:53

Instrument :

MSVOA_N

ClientSampleId :

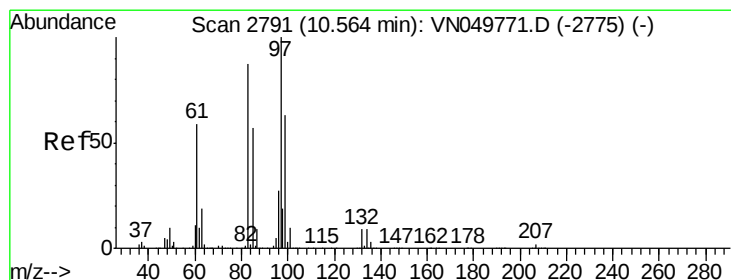
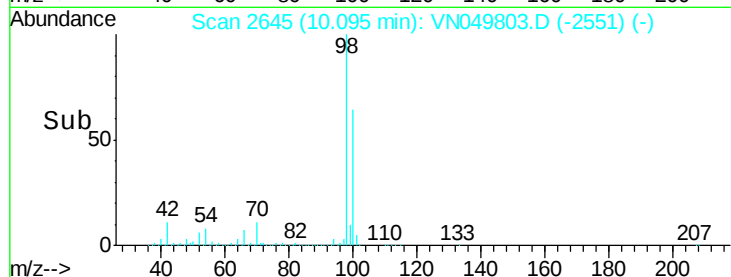
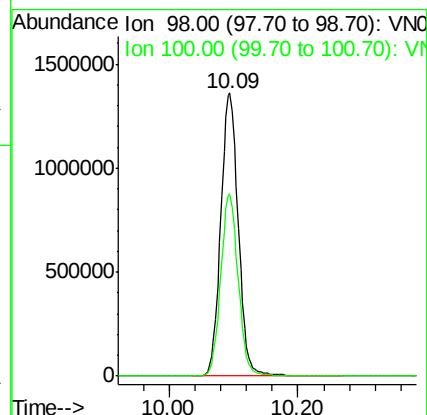
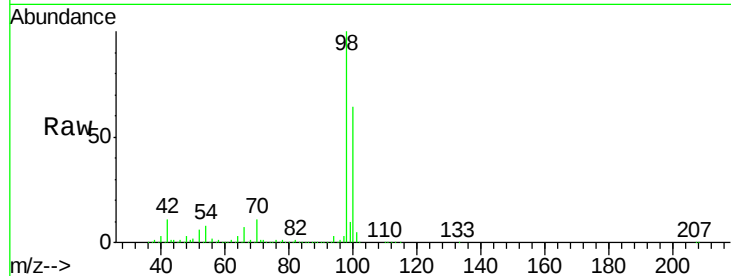
PB111069ZHE#06

Tot Ion: 98 Resp: 2566680

Ion Ratio Lower Upper

98 100

100 64.0 51.7 77.5



#55

1,1,2-Trichloroethane

Concen: Below Cal

RT: 10.58 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN049803.D

Acq: 13 Jul 2018 17:53

Tgt Ion: 97 Resp: 349

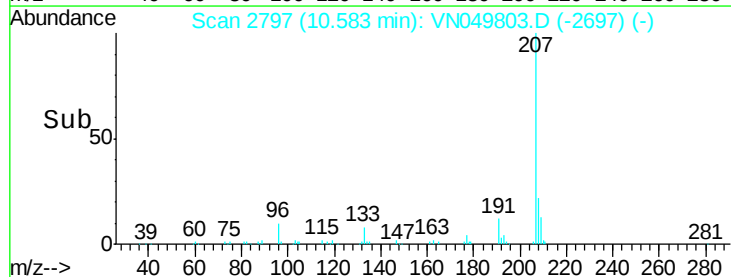
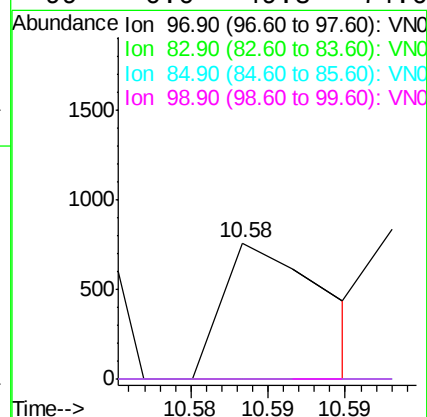
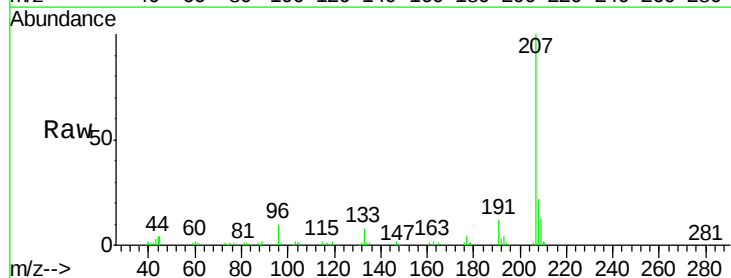
Ion Ratio Lower Upper

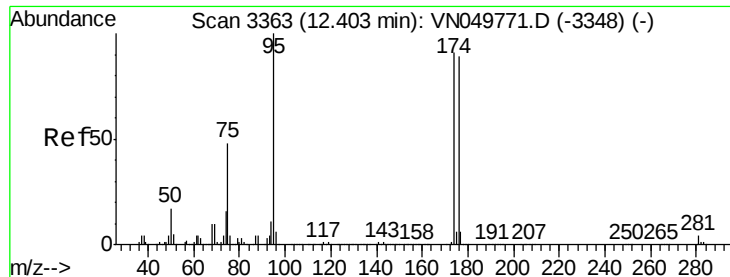
97 100

83 0.0 69.0 103.6#

85 0.0 44.9 67.3#

99 0.0 49.8 74.6#

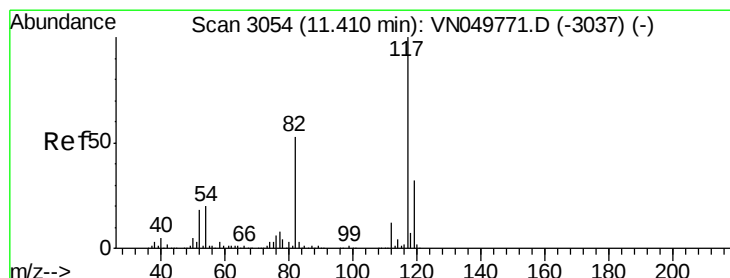
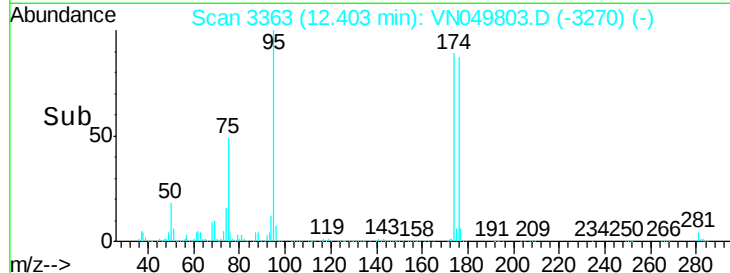
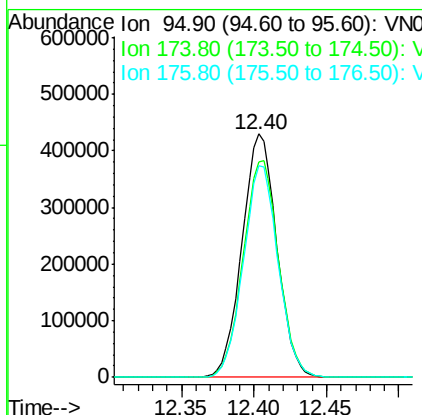
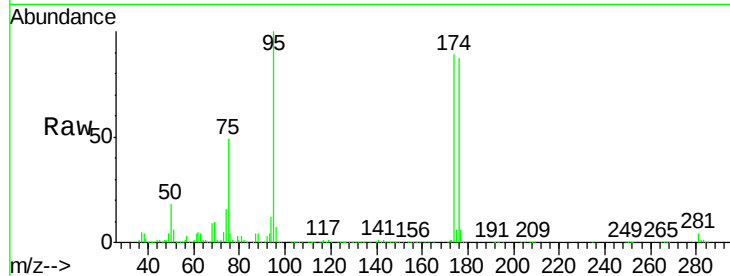




#62
4-Bromofluorobenzene
Concen: 40.40 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN049803.D
Acq: 13 Jul 2018 17:53

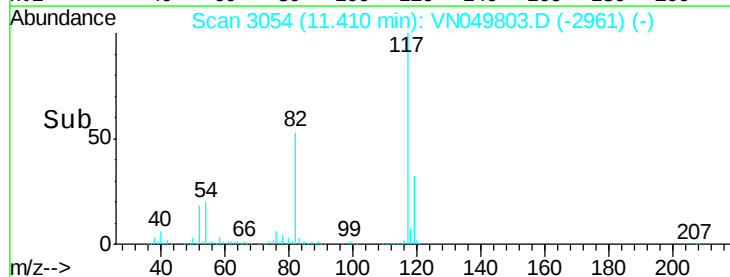
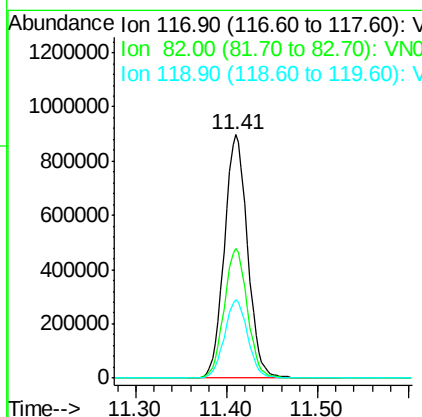
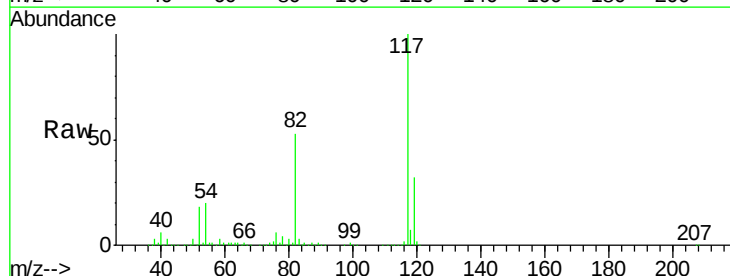
Instrument :
MSVOA_N
ClientSampleId :
PB111069ZHE#06

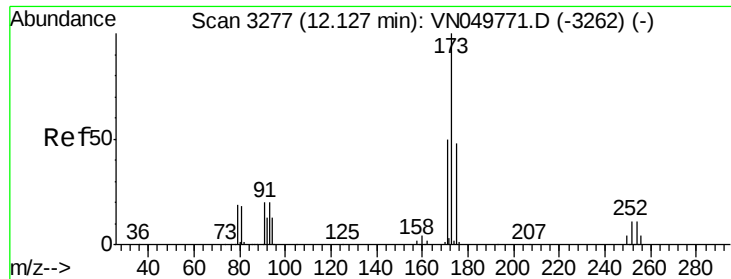
Tot Ion: 95 Resp: 718215
Ion Ratio Lower Upper
95 100
174 90.9 0.0 179.6
176 87.0 0.0 174.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049803.D
Acq: 13 Jul 2018 17:53

Tgt Ion: 117 Resp: 1589500
Ion Ratio Lower Upper
117 100
82 53.5 41.9 62.9
119 32.1 25.4 38.2





#71

Bromoform

Concen: 0.46 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN049803.D

Acq: 13 Jul 2018 17:53

Instrument :

MSVOA_N

ClientSampleId :

PB111069ZHE#06

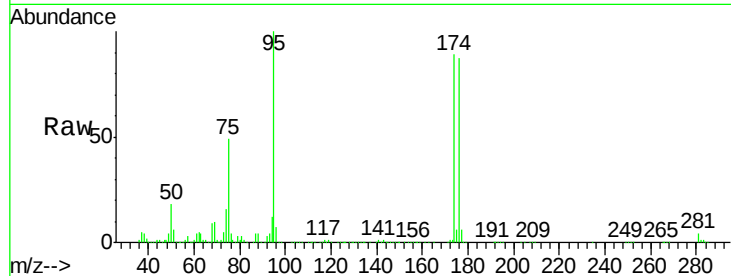
Tot Ion:173 Resp: 4811

Ion Ratio Lower Upper

173 100

175 798.3 24.6 73.8#

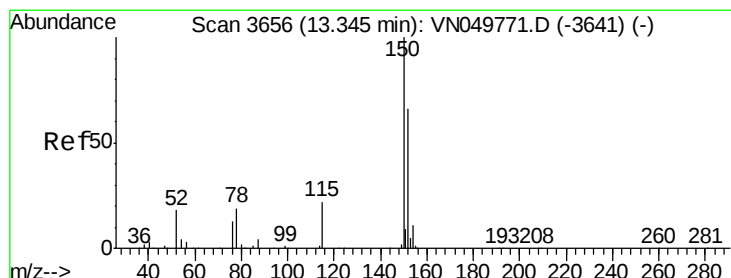
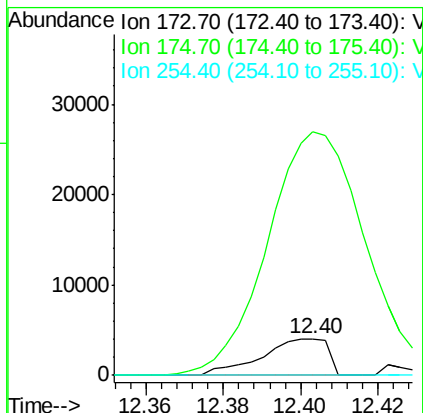
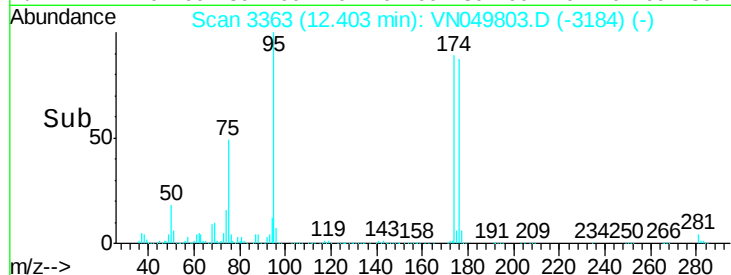
254 0.0 0.2 0.2#



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: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN049803.D

Acq: 13 Jul 2018 17:53

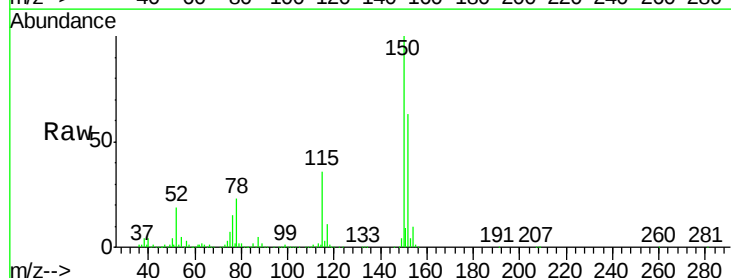
Tgt Ion:152 Resp: 597080

Ion Ratio Lower Upper

152 100

115 56.6 28.1 84.2

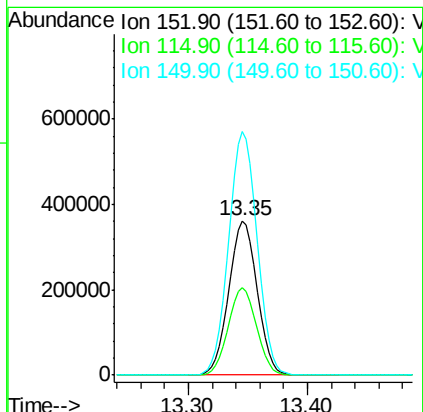
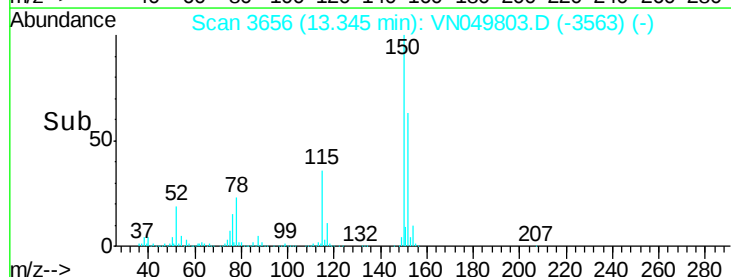
150 158.2 0.0 347.6

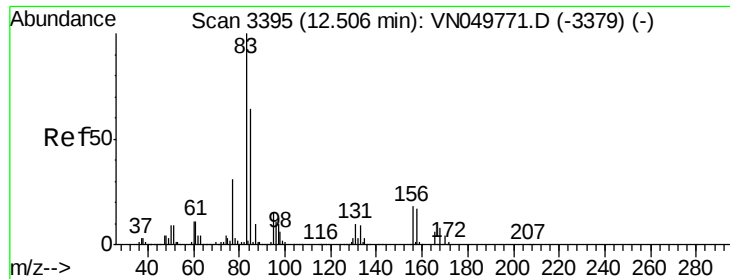


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.42 min Scan# 3368

Delta R.T. -0.09 min

Lab File: VN049803.D

Acq: 13 Jul 2018 17:53

Instrument :

MSVOA_N

ClientSampleId :

PB111069ZHE#06

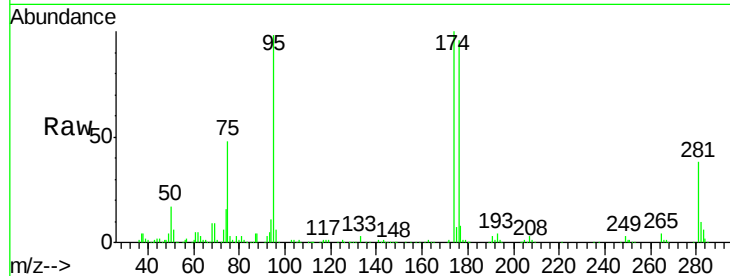
Tot Ion: 83 Resp: 294

Ion Ratio Lower Upper

83 100

131 476.9 5.2 15.6#

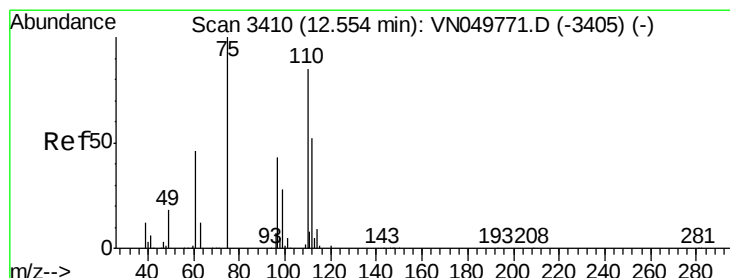
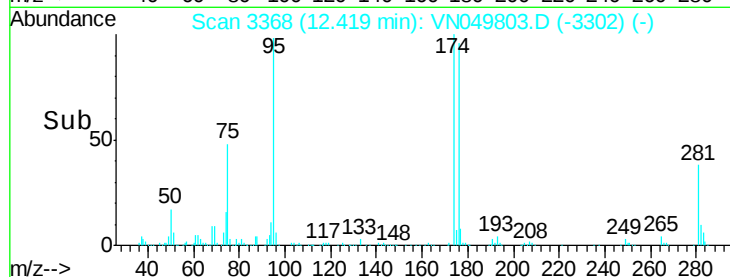
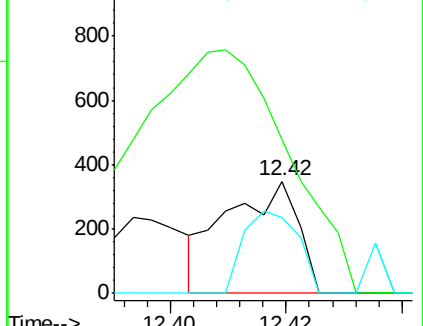
85 56.5 32.5 97.4



Abundance Ion 82.90 (82.60 to 83.60): VNC

Ion 130.80 (130.50 to 131.50): VNC

Ion 84.90 (84.60 to 85.60): VNC



#76

1,2,3-Trichloropropane

Concen: 33.33 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049803.D

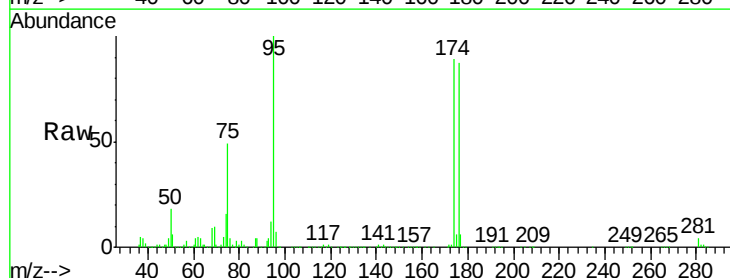
Acq: 13 Jul 2018 17:53

Tgt Ion: 75 Resp: 353503

Ion Ratio Lower Upper

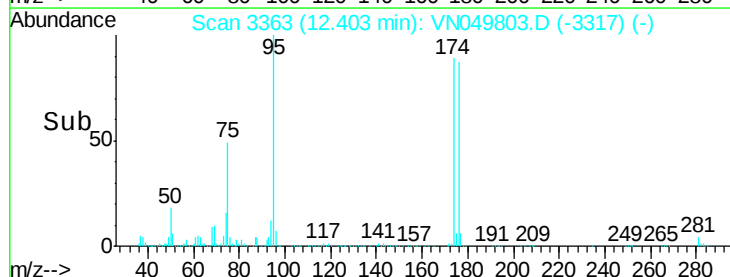
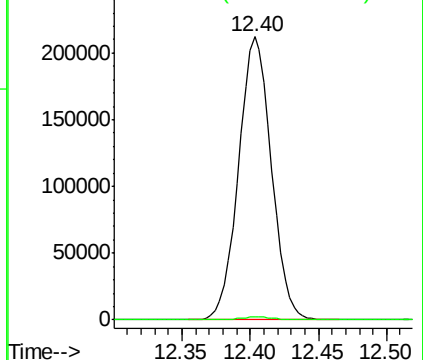
75 100

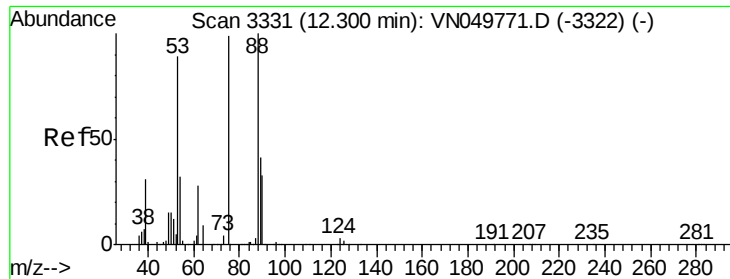
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC





#81

trans-1,4-Dichloro-2-butene

Concen: 107.63 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049803.D

Acq: 13 Jul 2018 17:53

Instrument :

MSVOA_N

ClientSampleId :

PB111069ZHE#06

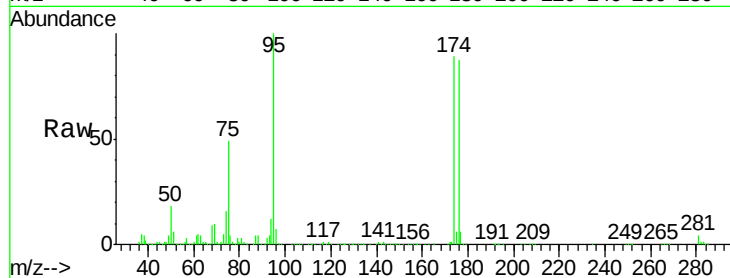
Tot Ion: 75 Resp: 353503

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

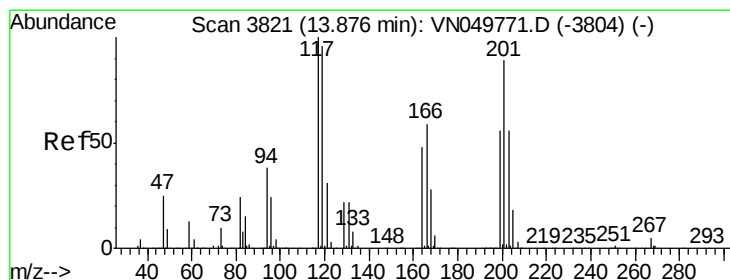
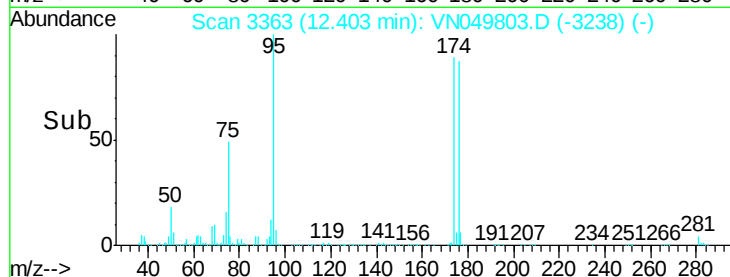
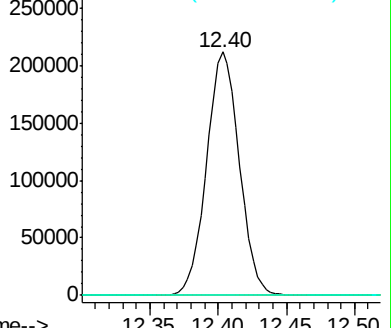
89 0.0 35.9 53.9#



Abundance Ion 74.90 (74.60 to 75.60): VN049803.D (-3238) (-)

Ion 53.00 (52.70 to 53.70): VN049803.D (-3238) (-)

Ion 88.90 (88.60 to 89.60): VN049803.D (-3238) (-)



#90

Hexachloroethane

Concen: Below Cal

RT: 13.94 min Scan# 3842

Delta R.T. 0.07 min

Lab File: VN049803.D

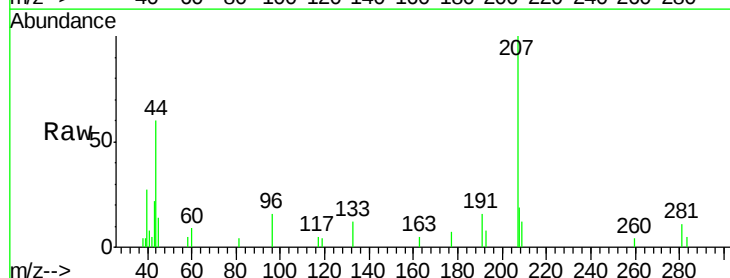
Acq: 13 Jul 2018 17:53

Tgt Ion: 117 Resp: 72

Ion Ratio Lower Upper

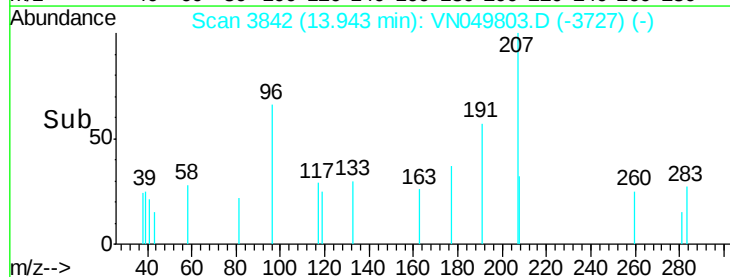
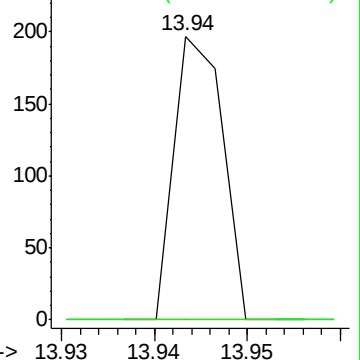
117 100

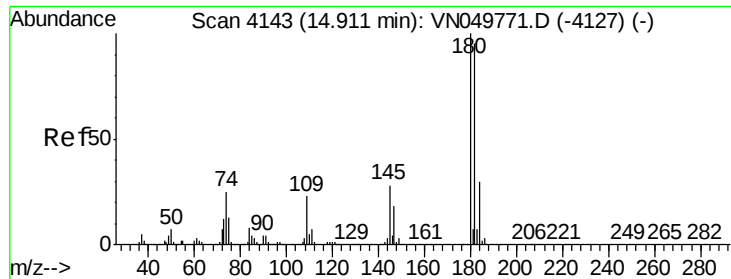
201 0.0 45.3 135.8#



Abundance Ion 116.80 (116.50 to 117.50): VN049803.D (-3727) (-)

Ion 200.70 (200.40 to 201.40): VN049803.D (-3727) (-)

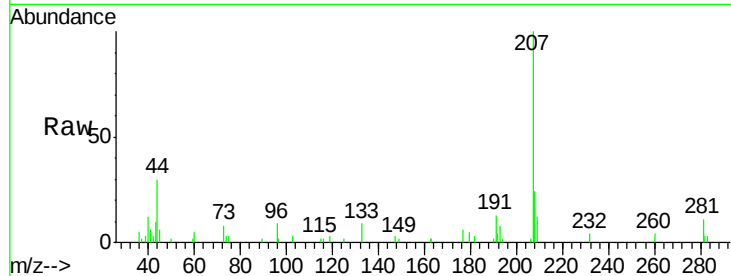




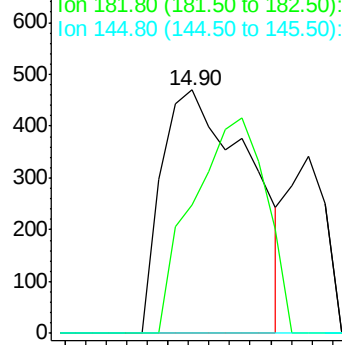
#93
 1,2,4-Trichlorobenzene
 Concen: 2.93 ug/l
 RT: 14.90 min Scan# 4141
 Delta R.T. -0.01 min
 Lab File: VN049803.D
 Acq: 13 Jul 2018 17:53

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#06

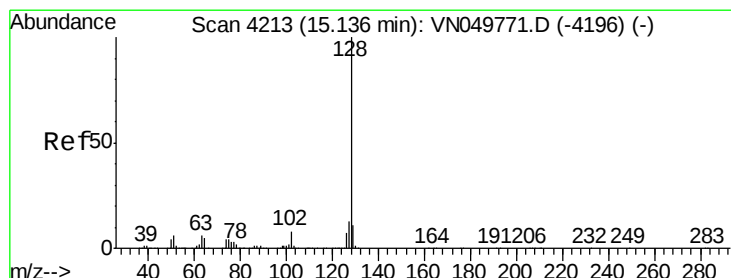
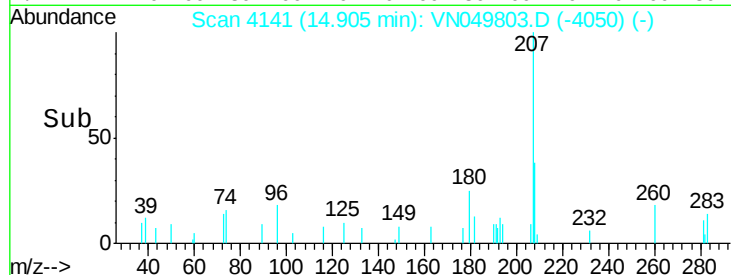
Tot Ion:180 Resp: 559
 Ion Ratio Lower Upper
 180 100
 182 72.8 47.3 141.9
 145 0.0 14.4 43.0#



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

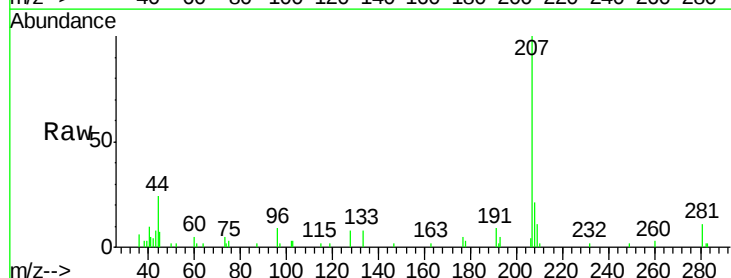


Time--> 14.88 14.90 14.92

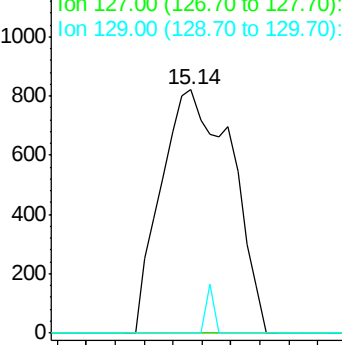


#95
 Naphthalene
 Concen: 4.07 ug/l
 RT: 15.14 min Scan# 4213
 Delta R.T. 0.00 min
 Lab File: VN049803.D
 Acq: 13 Jul 2018 17:53

Tgt Ion:128 Resp: 1393
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.4 15.6#
 129 2.3 8.6 13.0#



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



Time--> 15.10 15.15

