

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072018\
 Data File : VN049966.D
 Acq On : 20 Jul 2018 16:47
 Operator : MD\SY
 Sample : PB111289ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111289ZHE#06

Quant Time: Jul 20 23:48:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 01:58:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	557190	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	939209	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	784029	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	282022	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	405245	52.92	ug/l	0.00
Spiked Amount			Recovery	=	105.84%	
35) Dibromofluoromethane	7.59	113	356644	45.23	ug/l	0.00
Spiked Amount			Recovery	=	90.46%	
50) Toluene-d8	10.09	98	1255821	43.71	ug/l	0.00
Spiked Amount			Recovery	=	87.42%	
62) 4-Bromofluorobenzene	12.40	95	336555	34.02	ug/l	0.00
Spiked Amount			Recovery	=	68.04%	

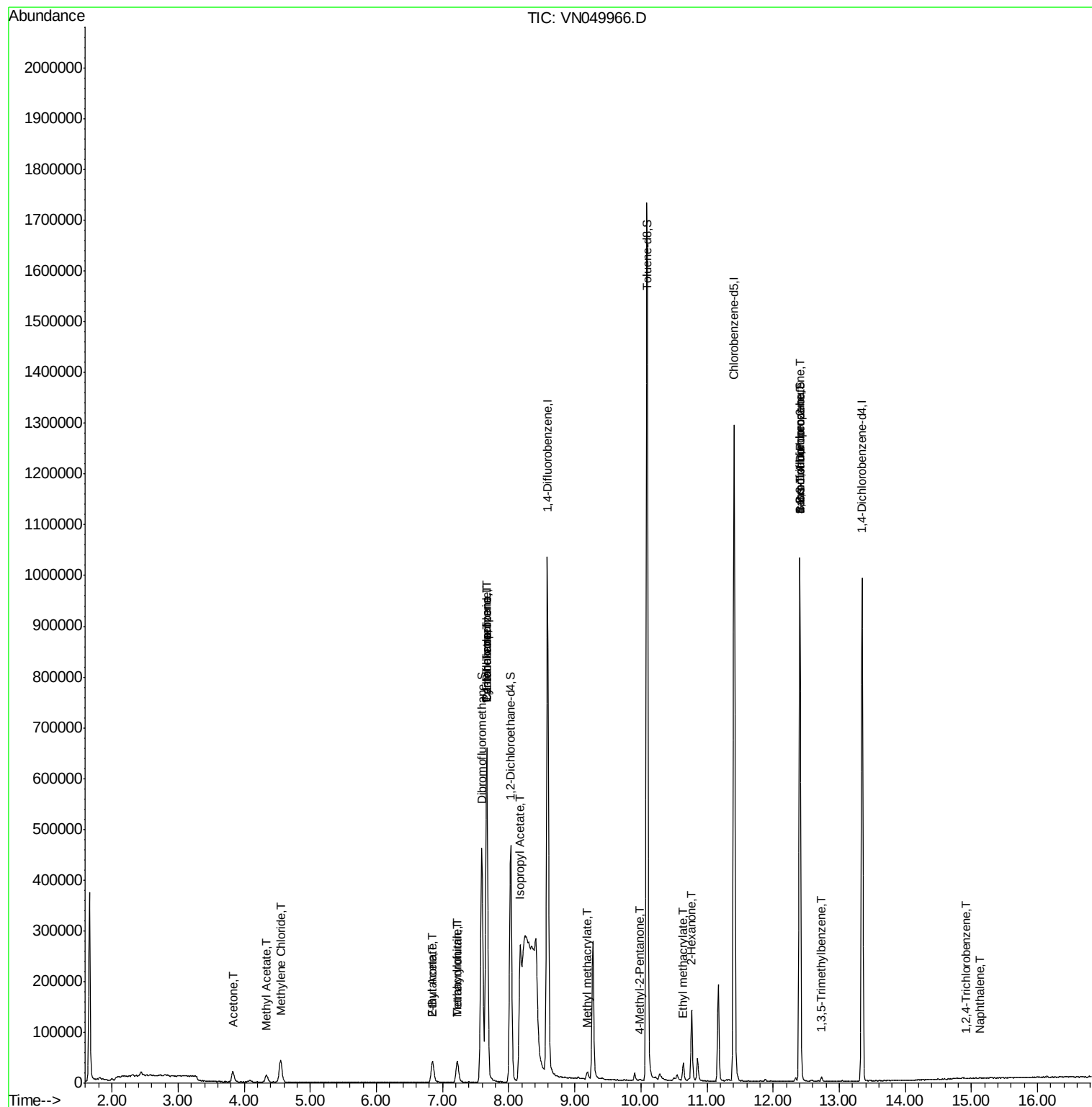
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.58	94	1014	Below Cal	#	12
16) Acetone	3.83	43	34526	17.41	ug/l	96
18) Methyl Acetate	4.34	43	26285	3.45	ug/l	99
20) Methylene Chloride	4.55	84	33483	4.44	ug/l	97
25) 2-Butanone	6.85	43	66172	23.35	ug/l	98
29) Tetrahydrofuran	7.23	42	32830	18.39	ug/l	96
31) Cyclohexane	7.67	56	11223	1.10	ug/l	# 7
36) 1,1-Dichloropropene	7.67	75	39743	3.81	ug/l	# 48
37) Ethyl Acetate	6.85	43	66172	9.23	ug/l	# 69
38) Carbon Tetrachloride	7.67	117	50598	4.52	ug/l	# 16
41) Methacrylonitrile	7.22	41	21078	5.86	ug/l	# 43
43) Isopropyl Acetate	8.18	43	316756	25.28	ug/l	# 91
48) Methyl methacrylate	9.18	41	8012	1.27	ug/l	# 24
51) 4-Methyl-2-Pentanone	9.98	43	2033	0.29	ug/l	# 82
56) Ethyl methacrylate	10.64	69	910	2.24	ug/l	# 1
59) 2-Hexanone	10.77	43	18779	3.99	ug/l	# 57
71) Bromoform	12.40	173	2887	0.53	ug/l	# 1
76) 1,2,3-Trichloropropane	12.40	75	165956	31.37	ug/l	# 100
80) 1,3,5-Trimethylbenzene	12.73	105	3692	0.22	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	165956	98.09	ug/l	# 13
93) 1,2,4-Trichlorobenzene	14.92	180	67	3.49	ug/l	# 13
95) Naphthalene	15.14	128	430	4.52	ug/l	# 69

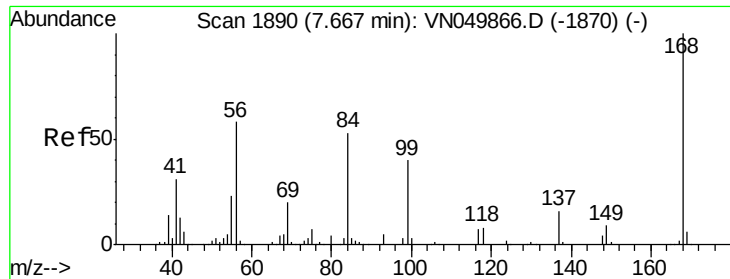
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jul 19 01:58:39 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049966.D

Acq: 20 Jul 2018 16:47

Instrument :

MSVOA_N

ClientSampleId :

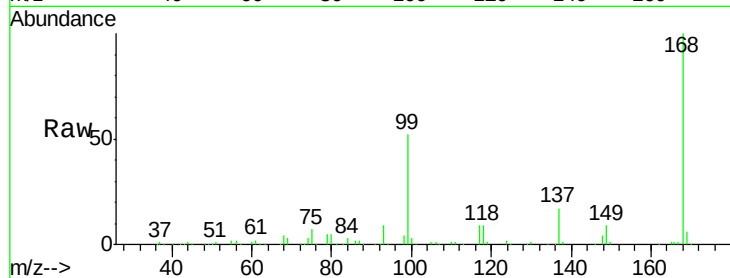
PB111289ZHE#06

Tot Ion:168 Resp: 557190

Ion Ratio Lower Upper

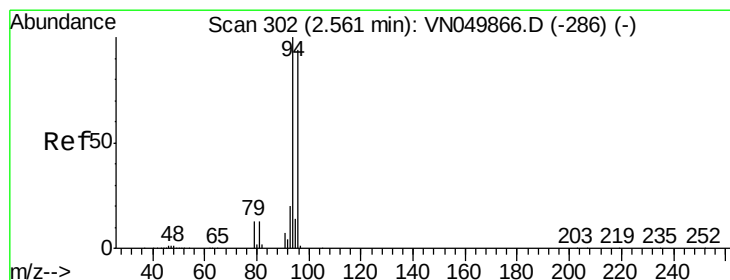
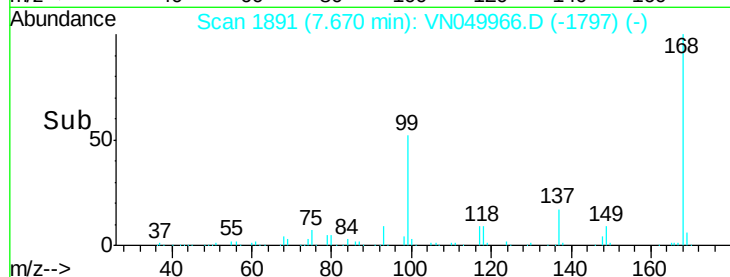
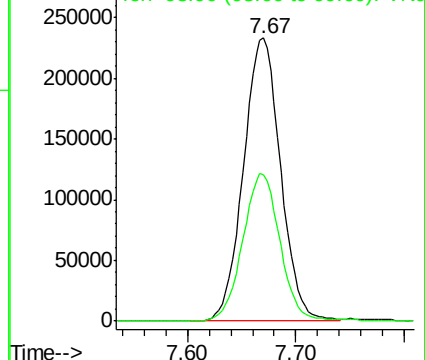
168 100

99 51.9 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 309

Delta R.T. 0.02 min

Lab File: VN049966.D

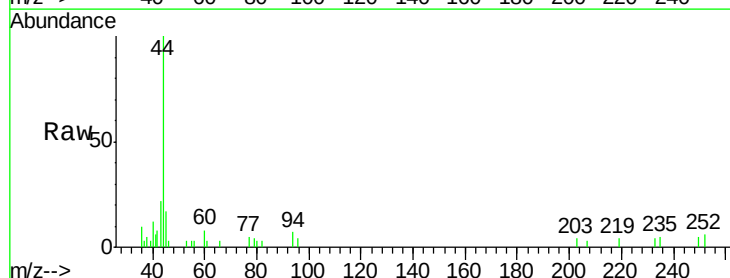
Acq: 20 Jul 2018 16:47

Tgt Ion: 94 Resp: 1014

Ion Ratio Lower Upper

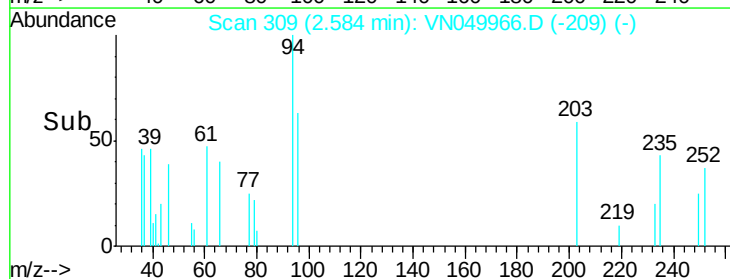
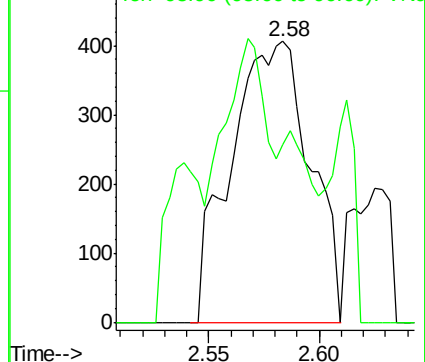
94 100

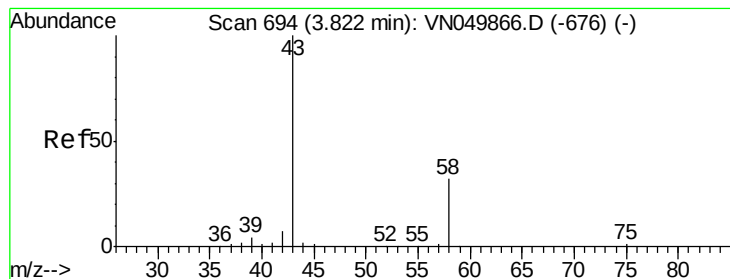
96 9.6 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO





#16

Acetone

Concen: 17.41 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN049966.D

Acq: 20 Jul 2018 16:47

Instrument :

MSVOA_N

ClientSampleId :

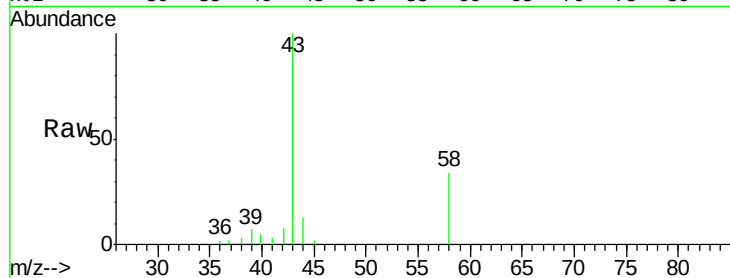
PB111289ZHE#06

Tot Ion: 43 Resp: 34526

Ion Ratio Lower Upper

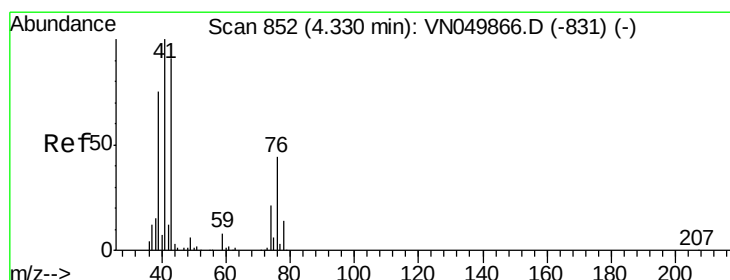
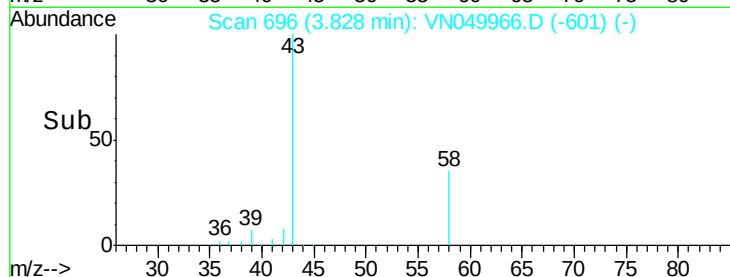
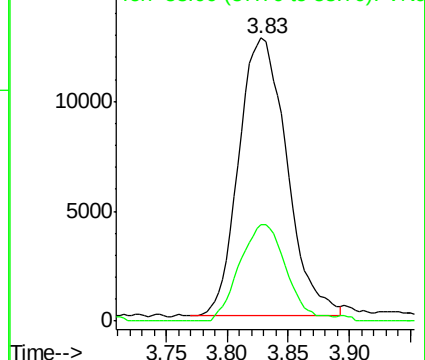
43 100

58 34.8 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VN049966.D (-601) (-)

Ion 58.00 (57.70 to 58.70): VN049966.D (-601) (-)



#18

Methyl Acetate

Concen: 3.45 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN049966.D

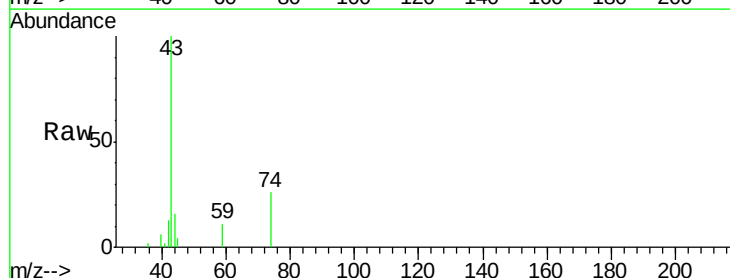
Acq: 20 Jul 2018 16:47

Tgt Ion: 43 Resp: 26285

Ion Ratio Lower Upper

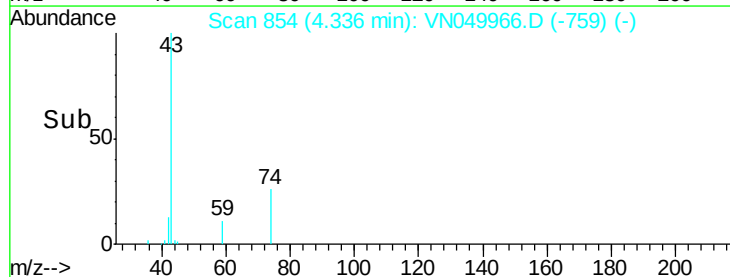
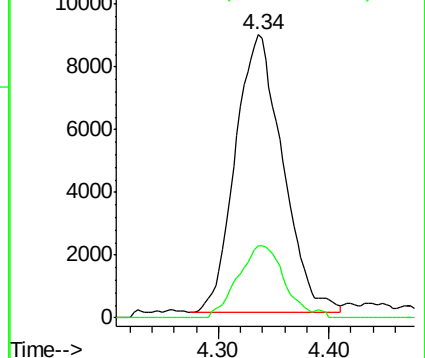
43 100

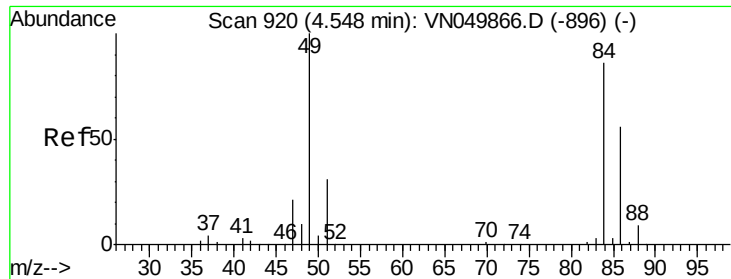
74 25.1 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN049966.D (-759) (-)

Ion 74.00 (73.70 to 74.70): VN049966.D (-759) (-)

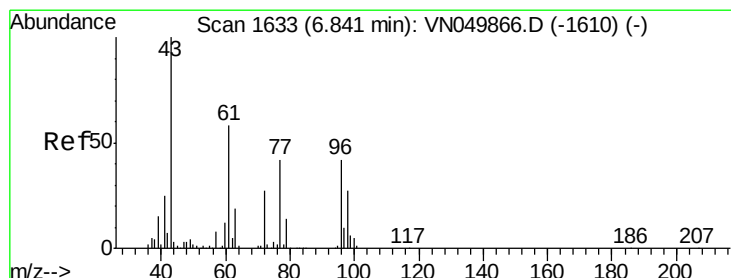
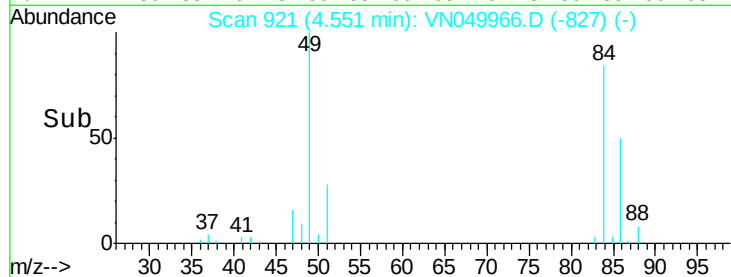
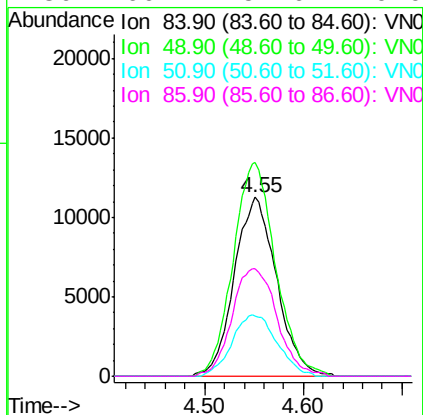
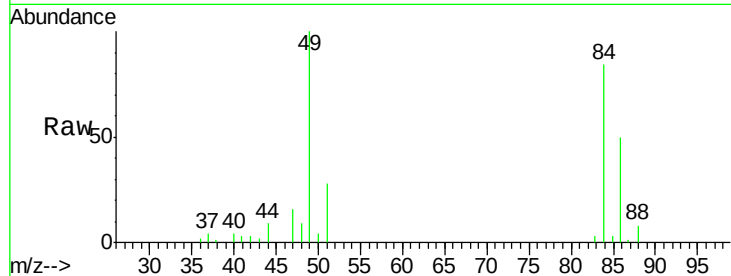




#20
Methvlene Chloride
Concen: 4.44 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN049966.D
Acq: 20 Jul 2018 16:47

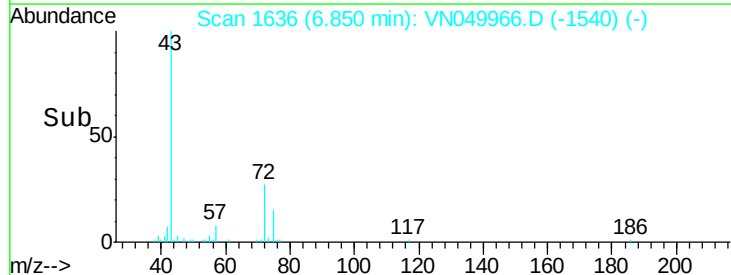
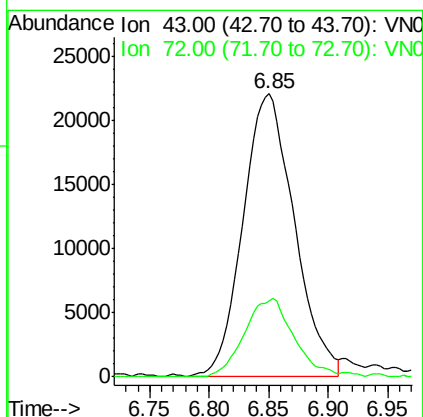
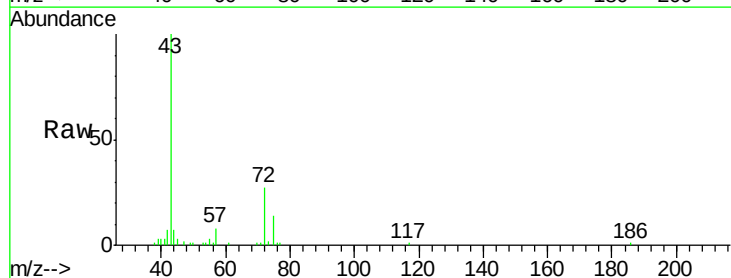
Instrument :
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PB111289ZHE#06

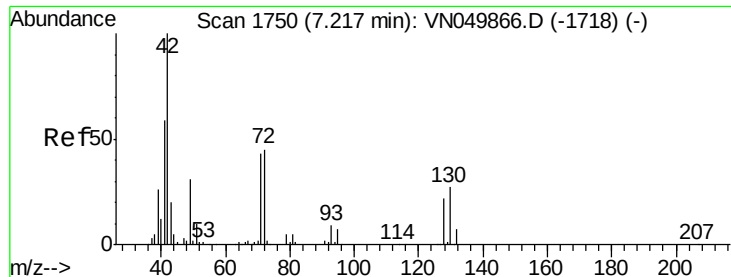
Tot Ion: 84 Resp: 33483
Ion Ratio Lower Upper
84 100
49 119.3 95.4 143.2
51 33.8 28.4 42.6
86 60.1 52.6 79.0



#25
2-Butanone
Concen: 23.35 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN049966.D
Acq: 20 Jul 2018 16:47

Tgt Ion: 43 Resp: 66172
Ion Ratio Lower Upper
43 100
72 26.7 22.1 33.1

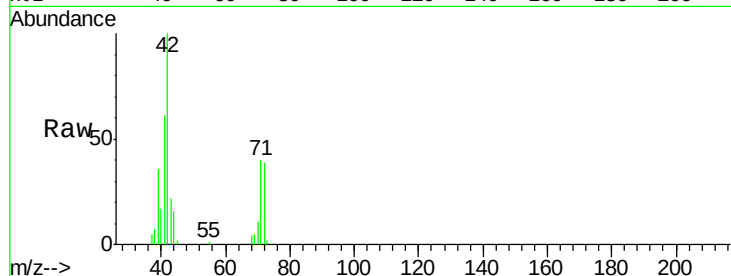




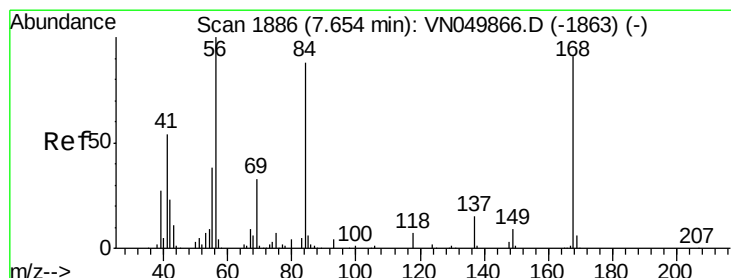
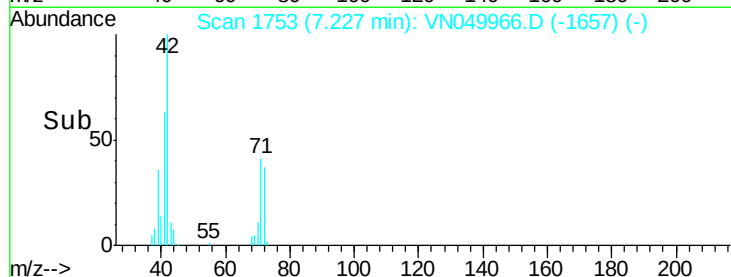
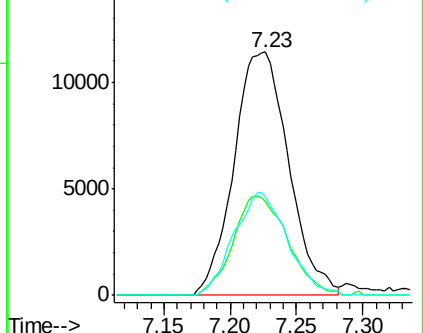
#29
Tetrahydrofuran
Concen: 18.39 ug/l
RT: 7.23 min Scan# 1753
Delta R.T. 0.01 min
Lab File: VN049966.D
Acq: 20 Jul 2018 16:47

Instrument :
MSVOA_N
ClientSampleId :
PB111289ZHE#06

Tot Ion: 42 Resp: 32830
Ion Ratio Lower Upper
42 100
72 40.7 35.6 53.4
71 41.3 34.0 51.0

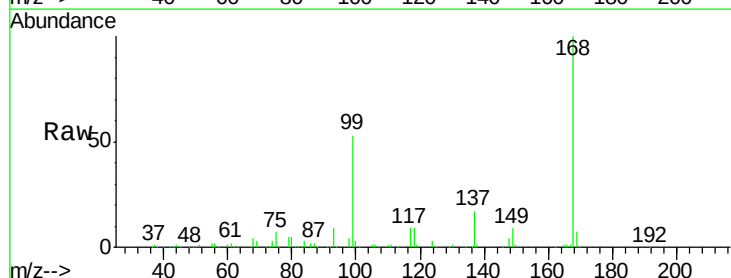


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

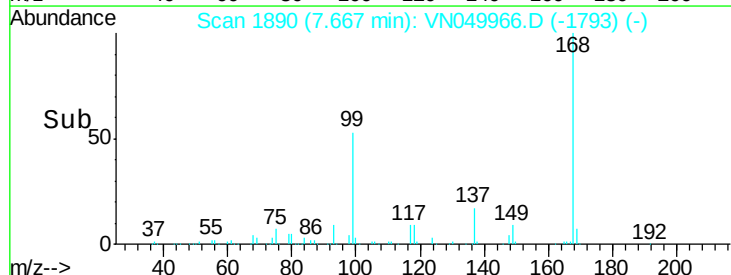
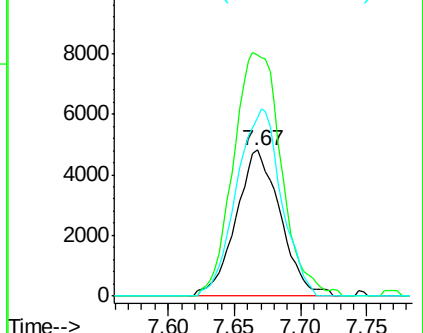


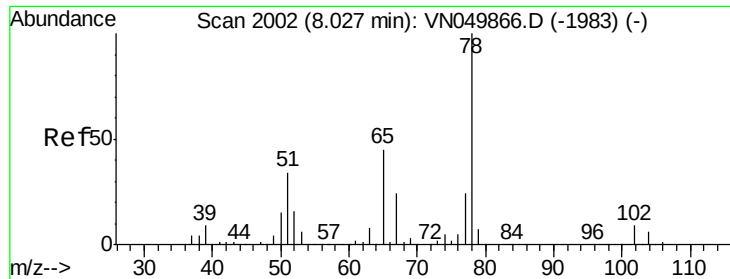
#31
Cyclohexane
Concen: 1.10 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049966.D
Acq: 20 Jul 2018 16:47

Tgt Ion: 56 Resp: 11223
Ion Ratio Lower Upper
56 100
69 165.5 26.6 40.0#
84 122.8 69.0 103.6#



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

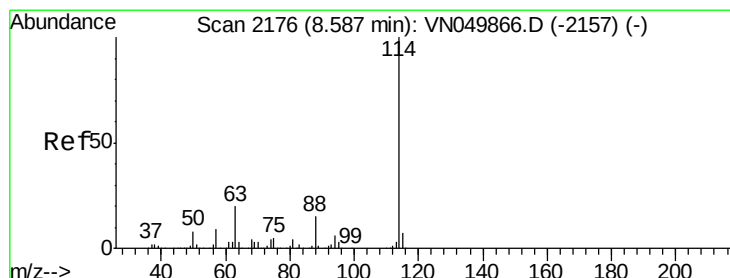
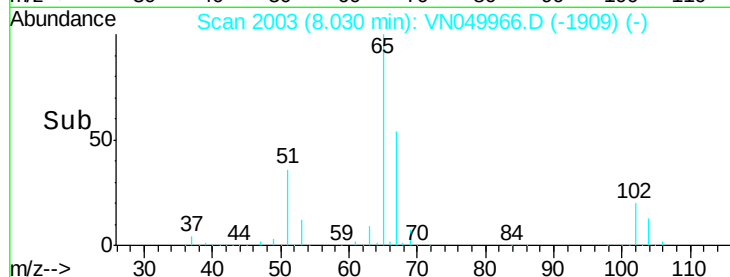
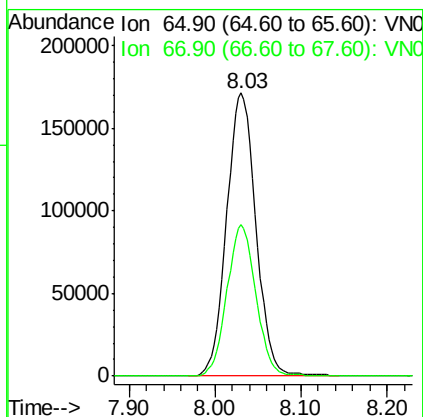
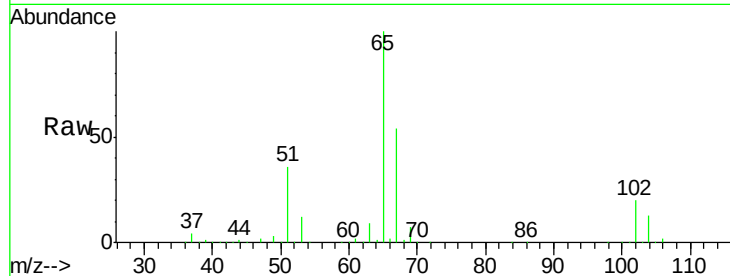




#33
 1,2-Dichloroethane-d4
 Concen: 52.92 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049966.D
 Acq: 20 Jul 2018 16:47

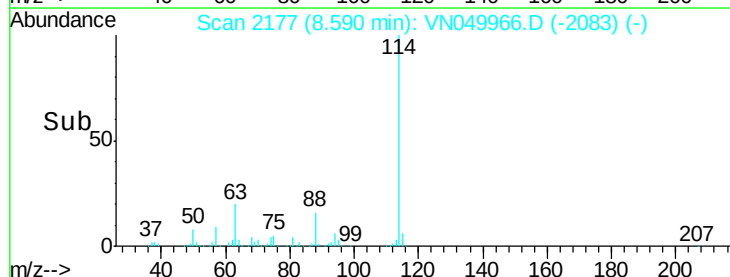
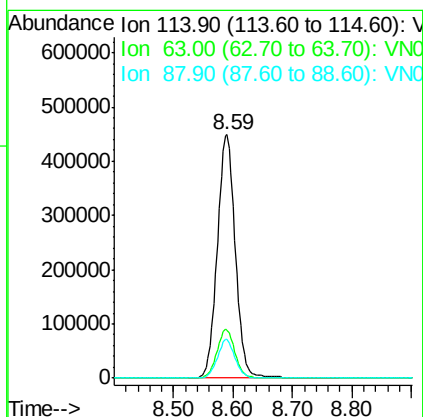
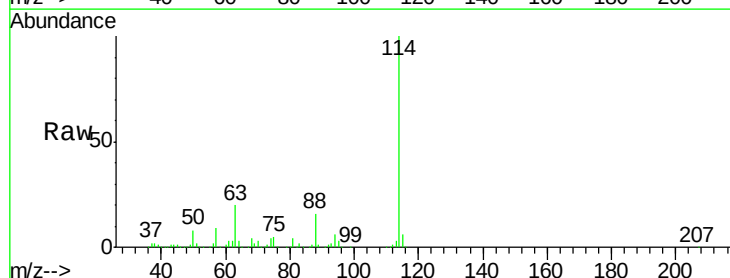
Instrument :
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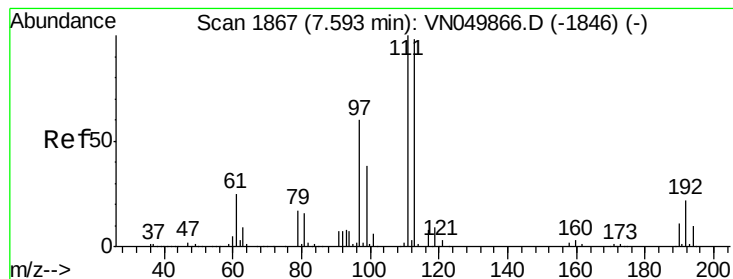
Tot Ion: 65 Resp: 405245
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049966.D
 Acq: 20 Jul 2018 16:47

Tgt Ion: 114 Resp: 939209
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.8
 88 15.8 0.0 30.6





#35

Dibromofluoromethane

Concen: 45.23 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN049966.D

Acq: 20 Jul 2018 16:47

Instrument :

MSVOA_N

ClientSampleId :

PB111289ZHE#06

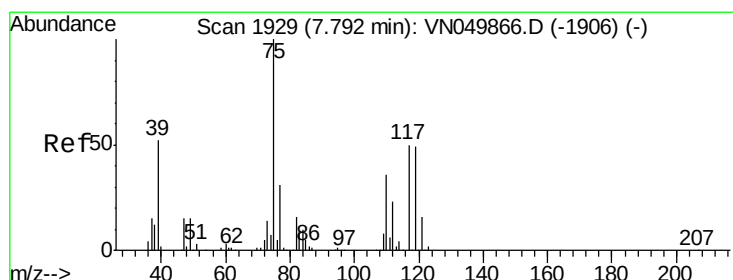
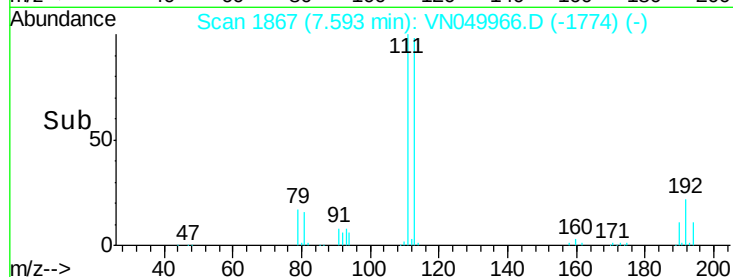
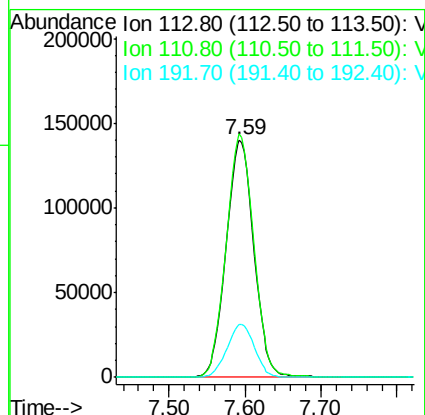
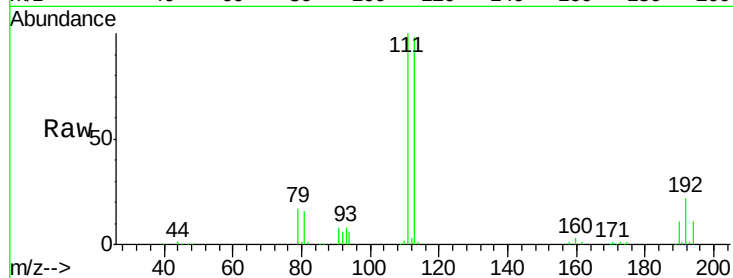
Tot Ion:113 Resp: 356644

Ion Ratio Lower Upper

113 100

111 101.4 81.8 122.8

192 22.2 17.8 26.6



#36

1,1-Dichloropropene

Concen: 3.81 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049966.D

Acq: 20 Jul 2018 16:47

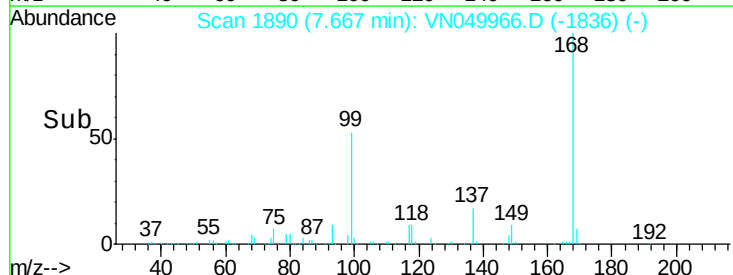
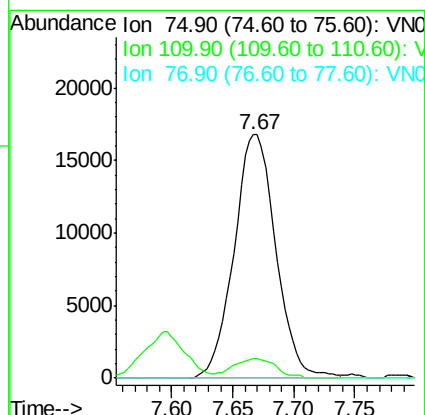
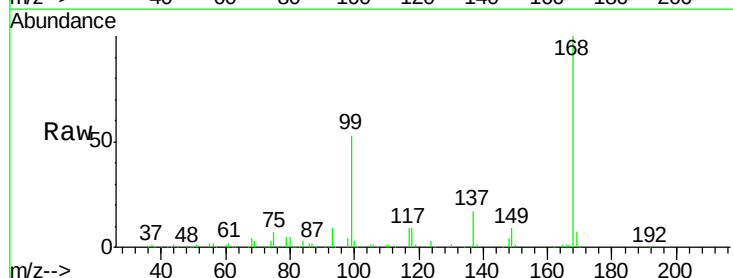
Tgt Ion: 75 Resp: 39743

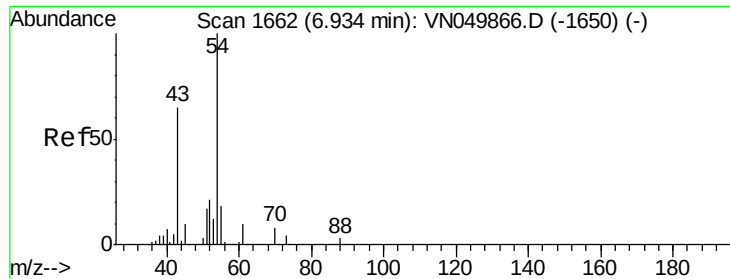
Ion Ratio Lower Upper

75 100

110 8.3 18.1 54.4#

77 0.0 24.9 37.3#

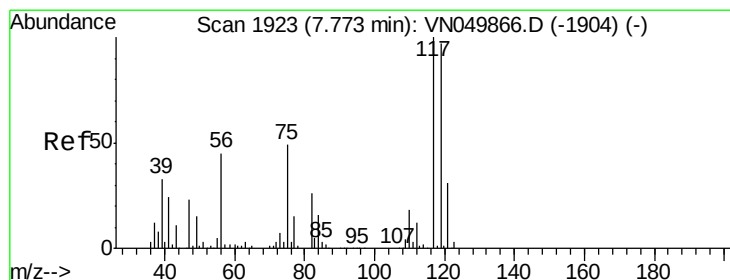
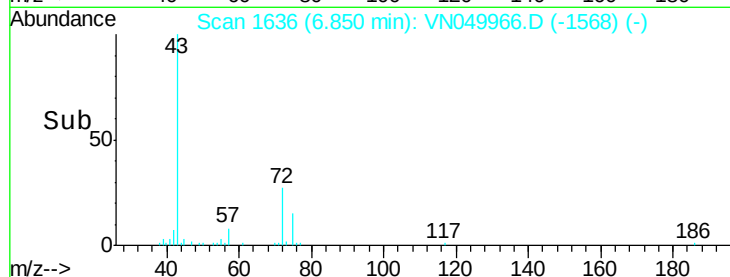
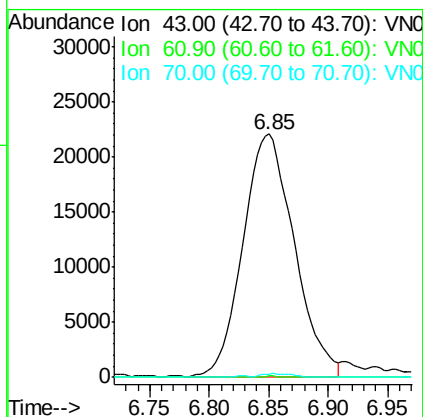
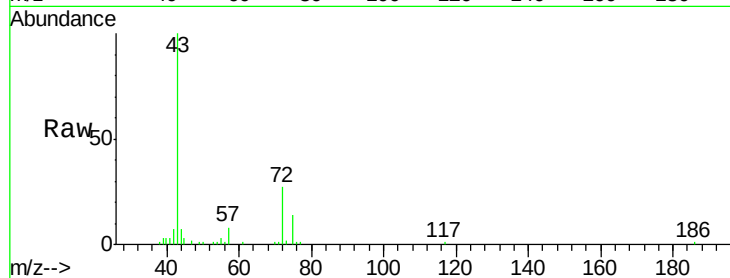




#37
Ethyl Acetate
Concen: 9.23 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. -0.08 min
Lab File: VN049966.D
Acq: 20 Jul 2018 16:47

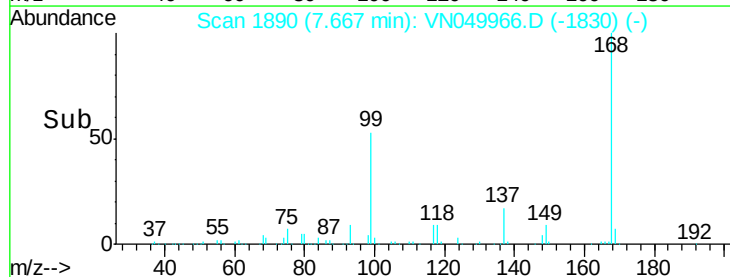
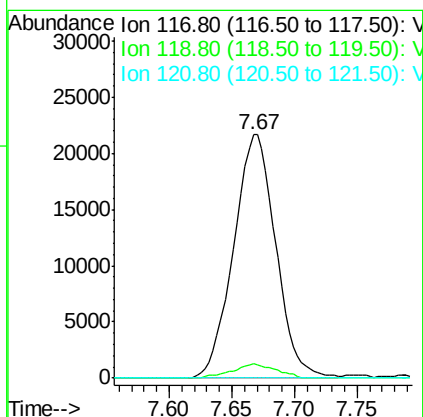
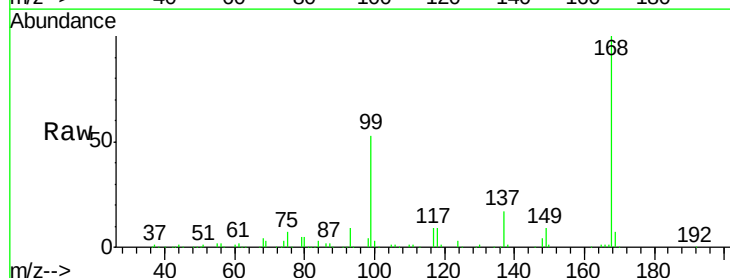
Instrument :
MSVOA_N
ClientSampleId :
PB111289ZHE#06

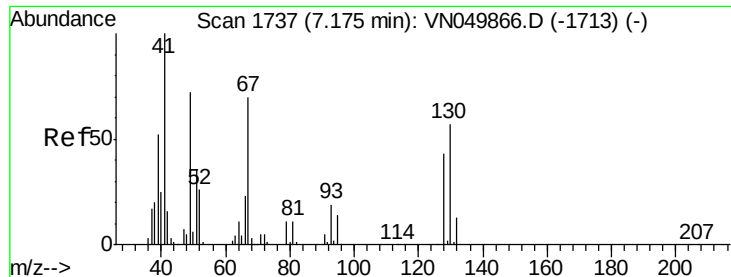
Tot Ion: 43 Resp: 66172
Ion Ratio Lower Upper
43 100
61 0.1 11.7 17.5#
70 0.9 8.4 12.6#



#38
Carbon Tetrachloride
Concen: 4.52 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN049966.D
Acq: 20 Jul 2018 16:47

Tgt Ion: 117 Resp: 50598
Ion Ratio Lower Upper
117 100
119 5.8 77.2 115.8#
121 0.0 25.0 37.6#





#41

Methacrylonitrile

Concen: 5.86 ug/l

RT: 7.22 min Scan# 1752

Delta R.T. 0.05 min

Lab File: VN049966.D

Acq: 20 Jul 2018 16:47

Instrument :

MSVOA_N

ClientSampleId :

PB111289ZHE#06

Tot Ion: 41 Resp: 21078

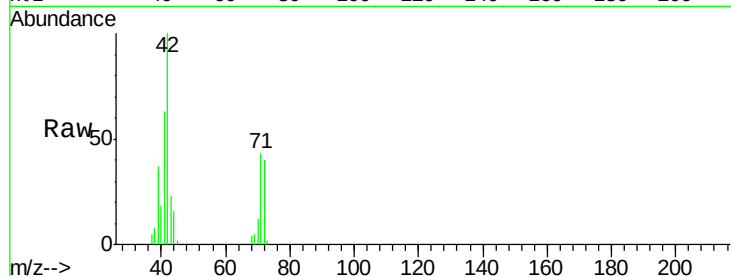
Ion Ratio Lower Upper

41 100

39 62.1 45.4 68.2

67 0.0 65.4 98.0#

52 0.0 24.7 37.1#

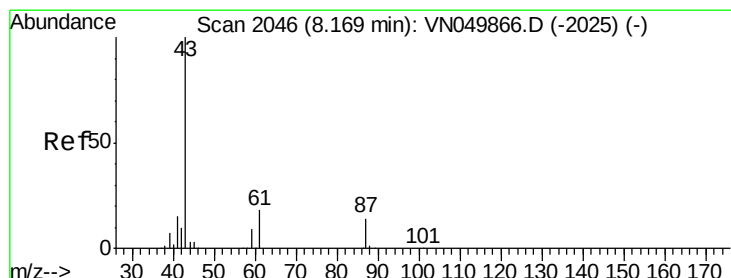
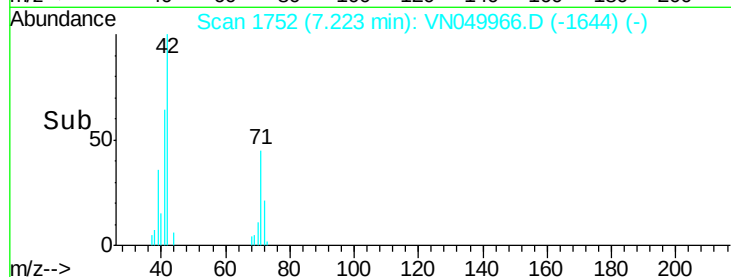
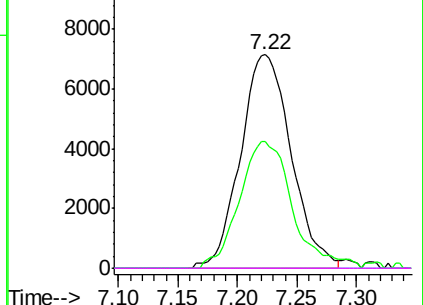


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#43

Isopropyl Acetate

Concen: 25.28 ug/l

RT: 8.18 min Scan# 2048

Delta R.T. 0.01 min

Lab File: VN049966.D

Acq: 20 Jul 2018 16:47

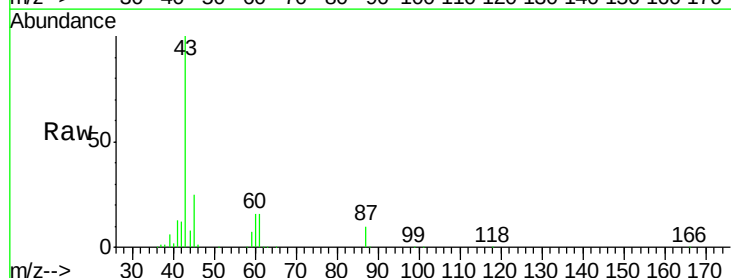
Tgt Ion: 43 Resp: 316756

Ion Ratio Lower Upper

43 100

61 14.6 14.9 22.3#

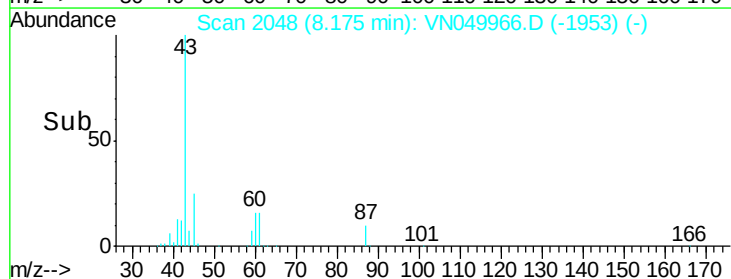
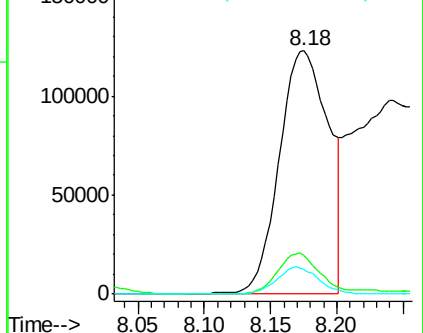
87 9.4 10.0 15.0#

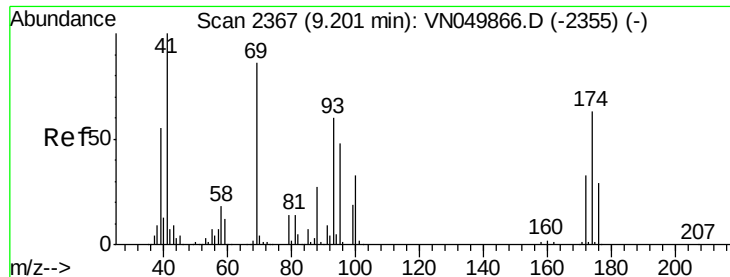


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

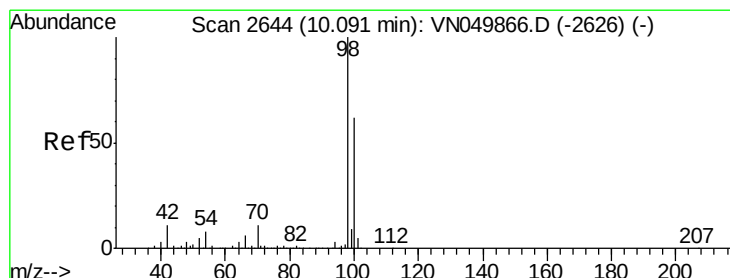
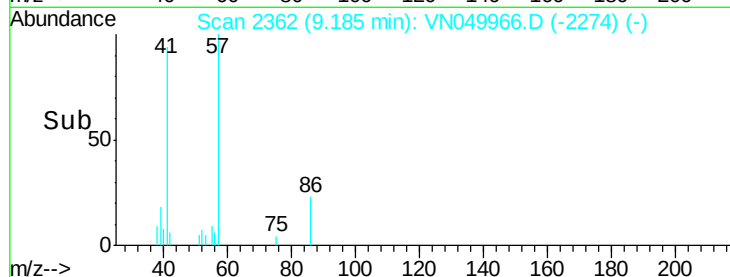
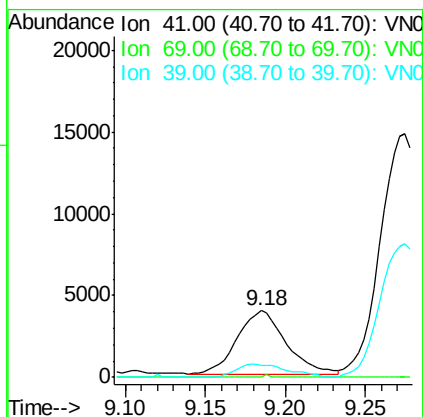
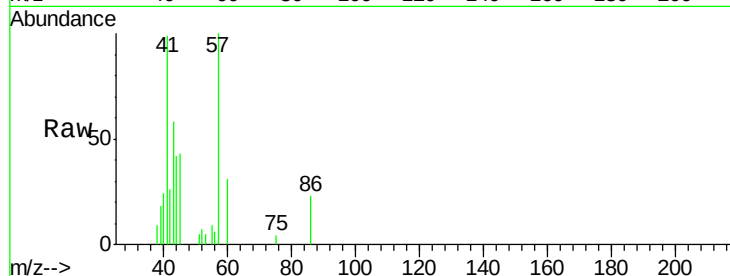




#48
Methvl methacrylate
Concen: 1.27 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN049966.D
Acq: 20 Jul 2018 16:47

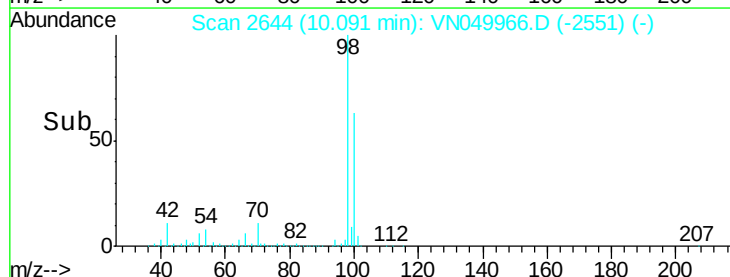
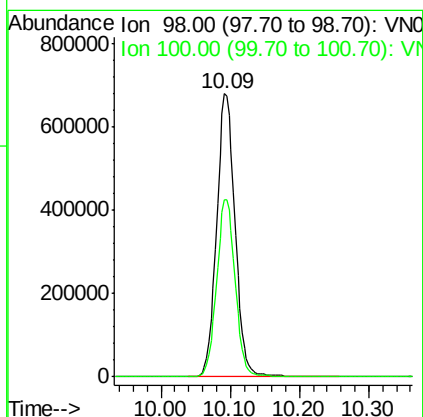
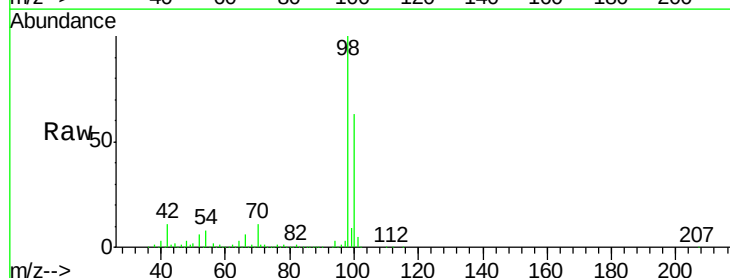
Instrument :
MSVOA_N
ClientSampleId :
PB111289ZHE#06

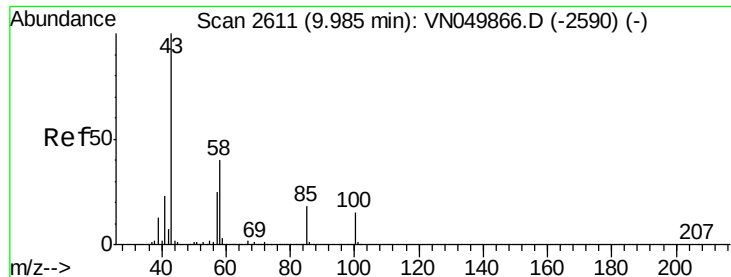
Tot Ion: 41 Resp: 8012
Ion Ratio Lower Upper
41 100
69 0.4 71.5 107.3#
39 22.0 44.7 67.1#



#50
Toluene-d8
Concen: 43.71 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049966.D
Acq: 20 Jul 2018 16:47

Tgt Ion: 98 Resp: 1255821
Ion Ratio Lower Upper
98 100
100 62.9 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 0.29 ug/l

RT: 9.98 min Scan# 2609

Delta R.T. -0.01 min

Lab File: VN049966.D

Acq: 20 Jul 2018 16:47

Instrument :

MSVOA_N

ClientSampleId :

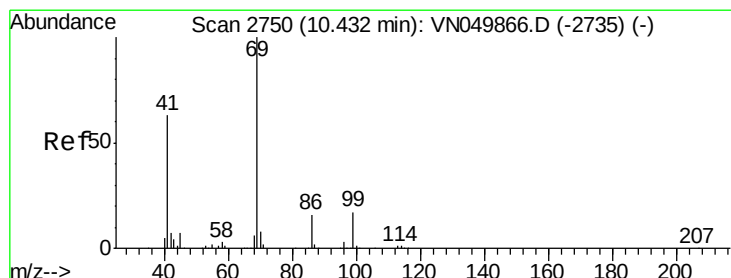
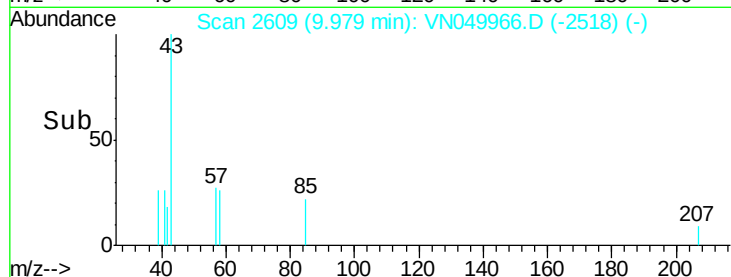
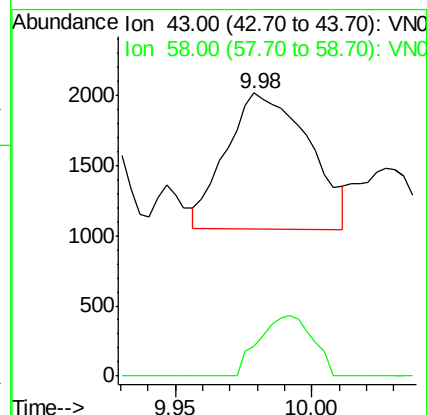
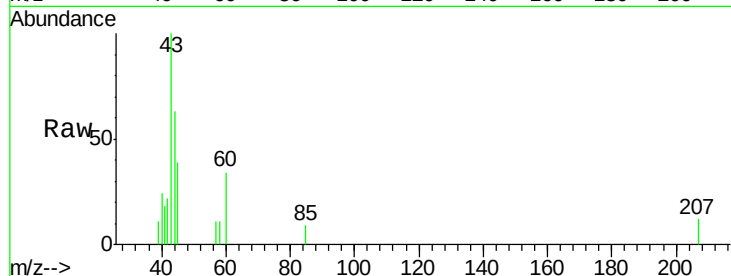
PB111289ZHE#06

Tot Ion: 43 Resp: 2033

Ion Ratio Lower Upper

43 100

58 28.8 31.8 47.8#



#56

Ethyl methacrylate

Concen: 2.24 ug/l

RT: 10.64 min Scan# 2816

Delta R.T. 0.21 min

Lab File: VN049966.D

Acq: 20 Jul 2018 16:47

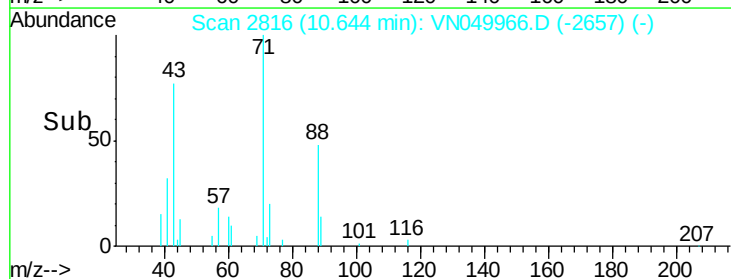
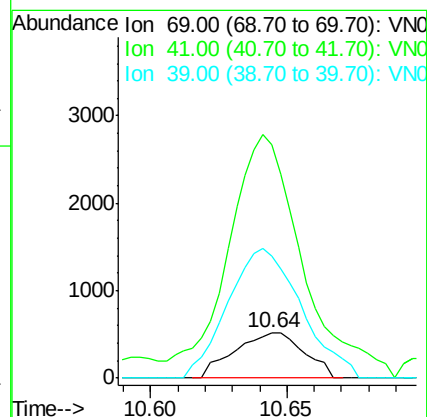
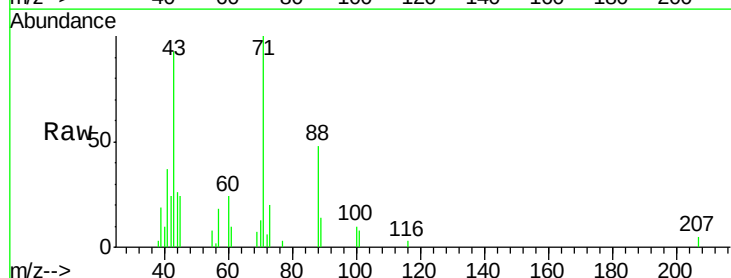
Tgt Ion: 69 Resp: 910

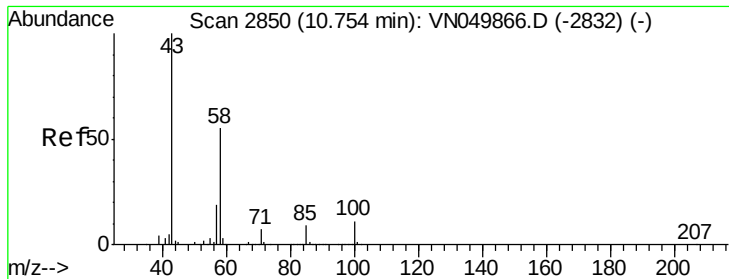
Ion Ratio Lower Upper

69 100

41 583.7 51.6 77.4#

39 305.4 25.8 38.8#





#59

2-Hexanone

Concen: 3.99 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN049966.D

Acq: 20 Jul 2018 16:47

Instrument :

MSVOA_N

ClientSampleId :

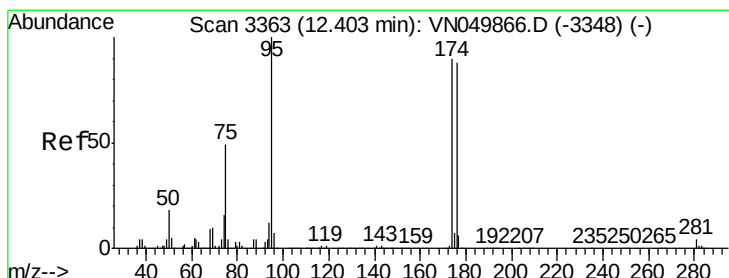
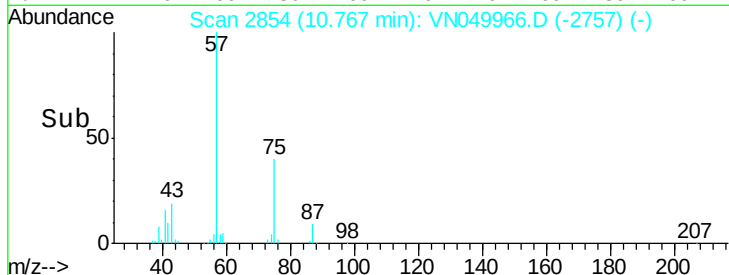
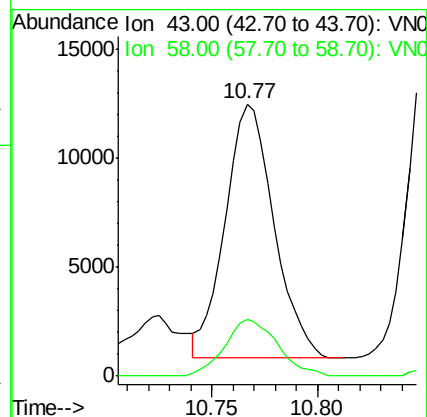
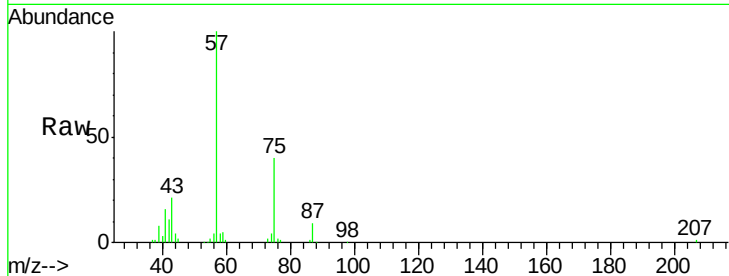
PB111289ZHE#06

Tot Ion: 43 Resp: 18779

Ion Ratio Lower Upper

43 100

58 24.1 27.8 83.4#



#62

4-Bromofluorobenzene

Concen: 34.02 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049966.D

Acq: 20 Jul 2018 16:47

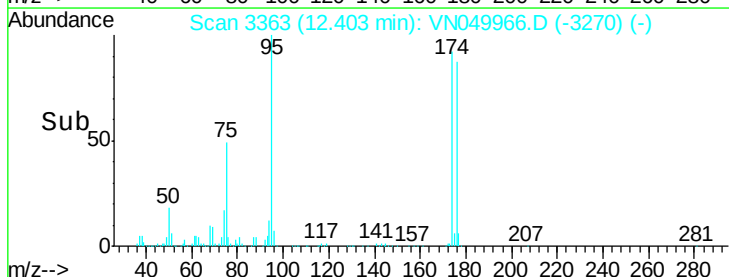
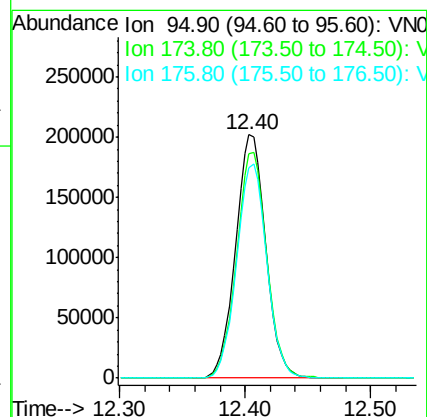
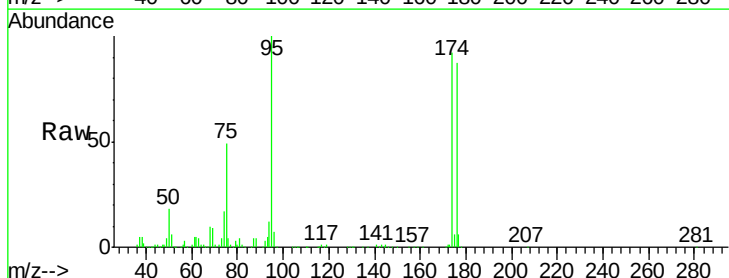
Tgt Ion: 95 Resp: 336555

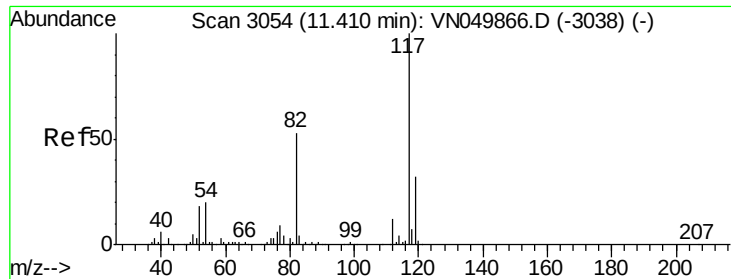
Ion Ratio Lower Upper

95 100

174 92.8 0.0 179.6

176 88.2 0.0 174.0

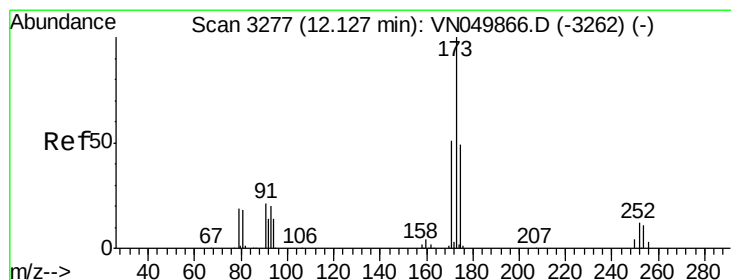
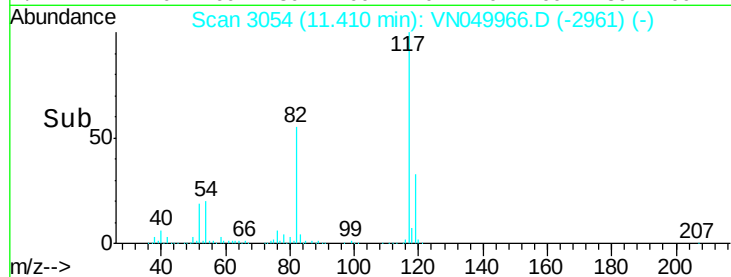
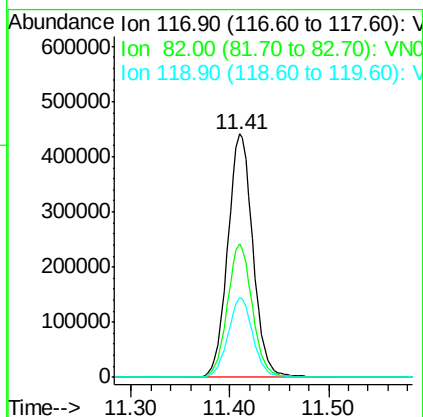
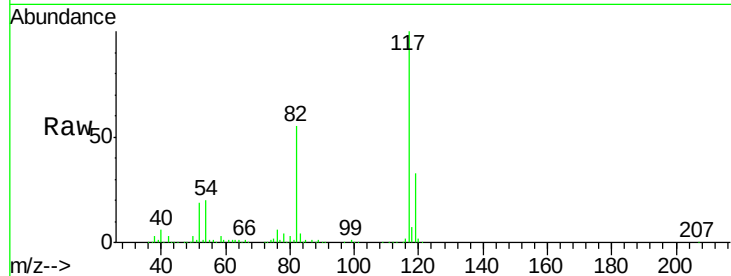




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049966.D
Acq: 20 Jul 2018 16:47

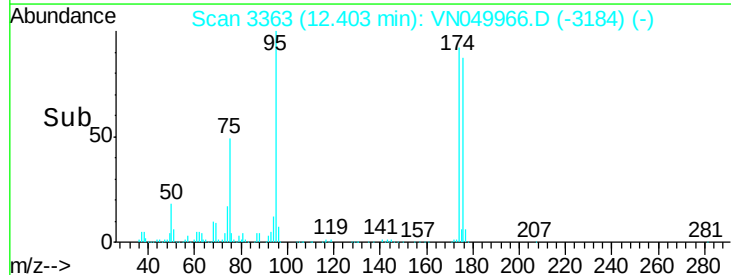
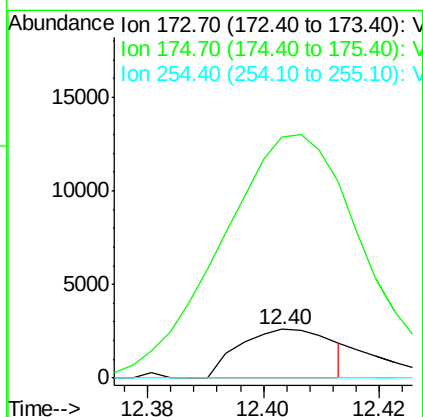
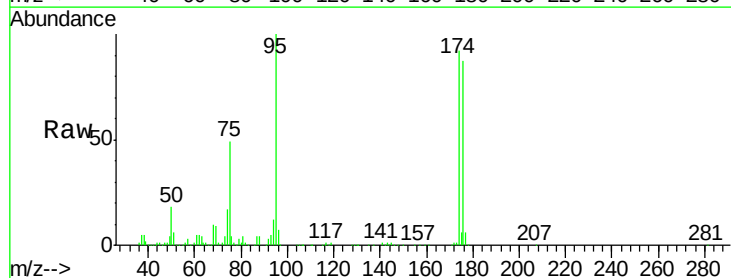
Instrument :
MSVOA_N
ClientSampleId :
PB111289ZHE#06

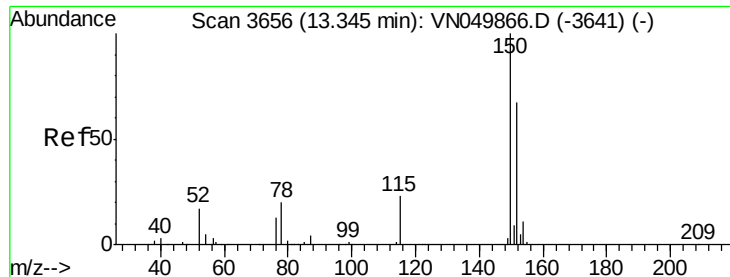
Tot Ion:117 Resp: 784029
Ion Ratio Lower Upper
117 100
82 54.7 41.9 62.9
119 32.5 25.4 38.2



#71
Bromoform
Concen: 0.53 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN049966.D
Acq: 20 Jul 2018 16:47

Tgt Ion:173 Resp: 2887
Ion Ratio Lower Upper
173 100
175 619.5 24.6 73.8#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049966.D

Acq: 20 Jul 2018 16:47

Instrument :

MSVOA_N

ClientSampleId :

PB111289ZHE#06

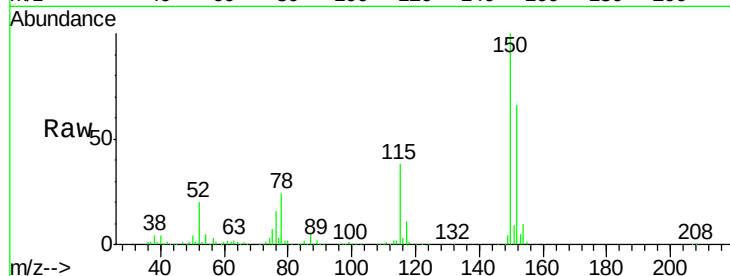
Tot Ion:152 Resp: 282022

Ion Ratio Lower Upper

152 100

115 56.1 28.1 84.2

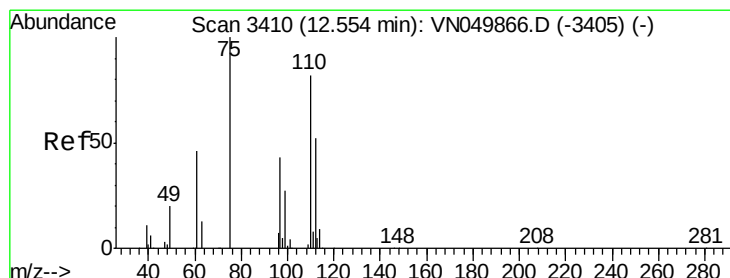
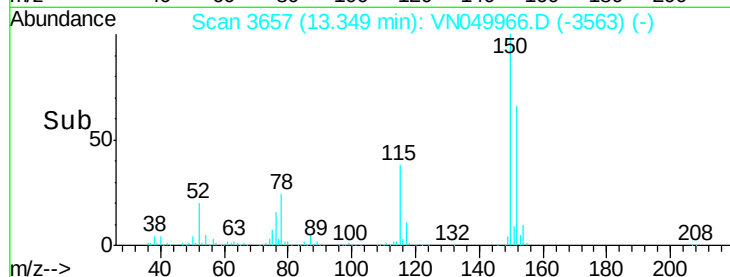
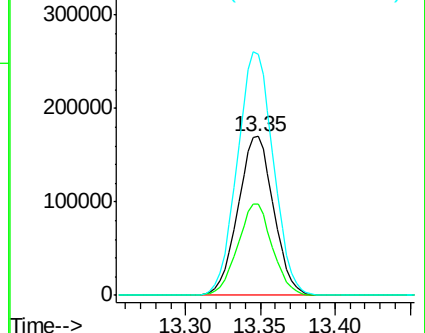
150 155.2 0.0 347.6



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



#76

1,2,3-Trichloropropane

Concen: 31.37 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049966.D

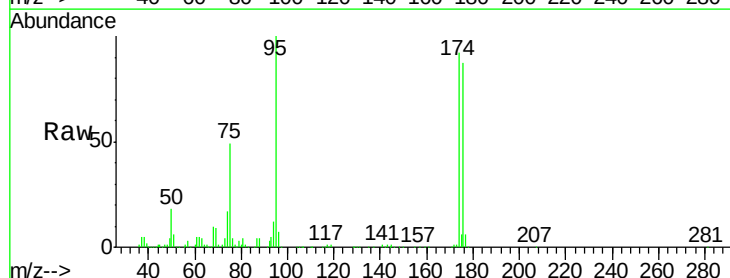
Acq: 20 Jul 2018 16:47

Tgt Ion: 75 Resp: 165956

Ion Ratio Lower Upper

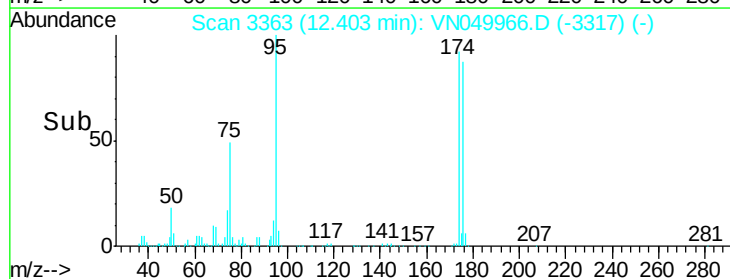
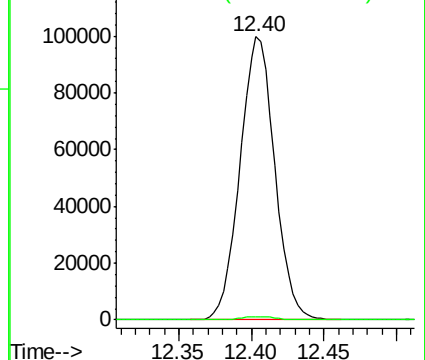
75 100

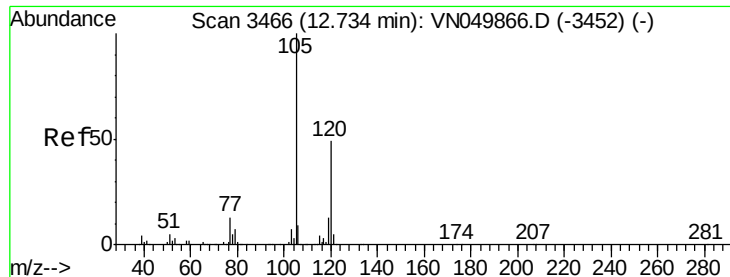
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.22 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN049966.D

Acq: 20 Jul 2018 16:47

Instrument :

MSVOA_N

ClientSampleId :

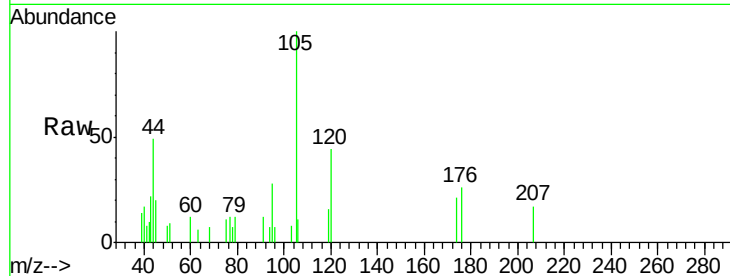
PB111289ZHE#06

Tot Ion:105 Resp: 3692

Ion Ratio Lower Upper

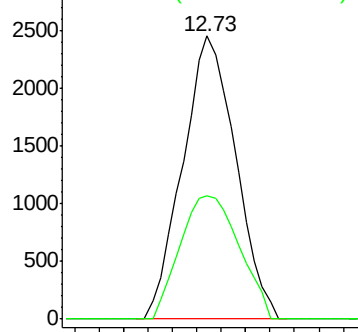
105 100

120 48.8 24.3 72.8

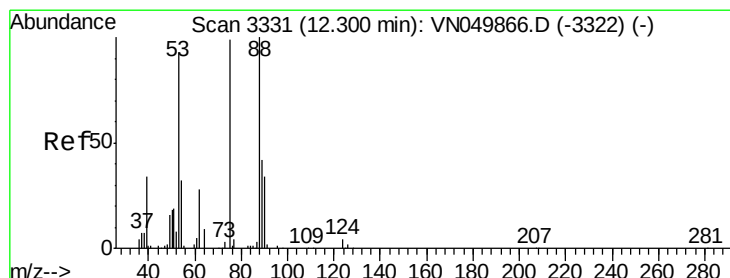
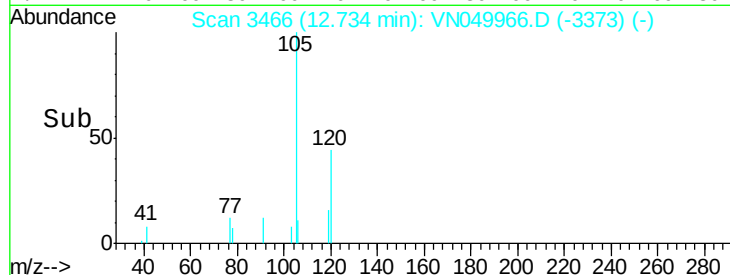


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 98.09 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049966.D

Acq: 20 Jul 2018 16:47

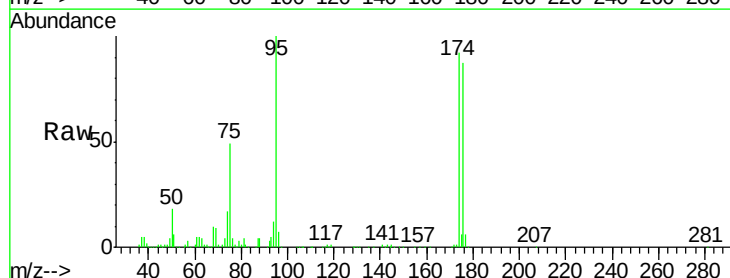
Tgt Ion: 75 Resp: 165956

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

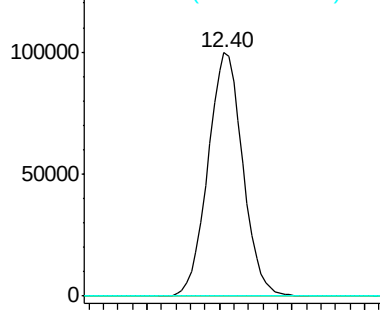
89 0.0 35.9 53.9#



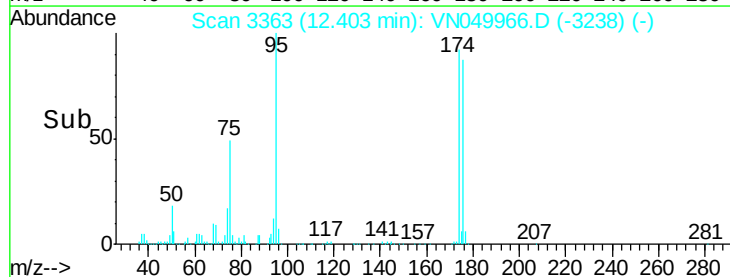
Abundance Ion 74.90 (74.60 to 75.60): VNO

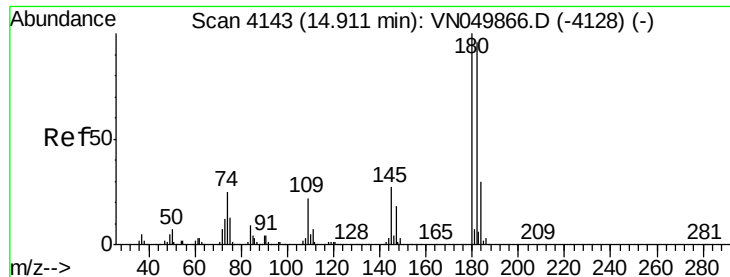
Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO



Time-->

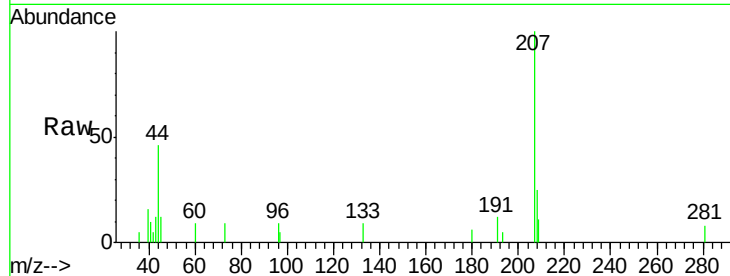




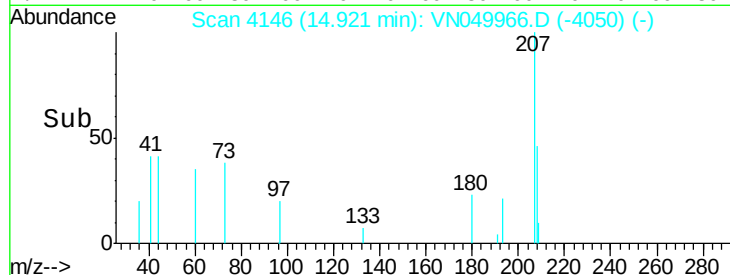
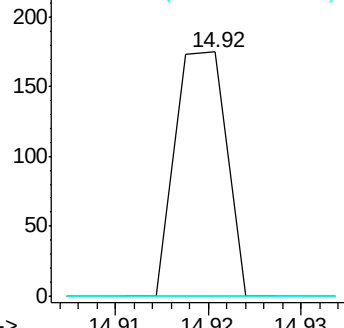
#93
 1,2,4-Trichlorobenzene
 Concen: 3.49 ug/l
 RT: 14.92 min Scan# 4146
 Delta R.T. 0.01 min
 Lab File: VN049966.D
 Acq: 20 Jul 2018 16:47

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111289ZHE#06

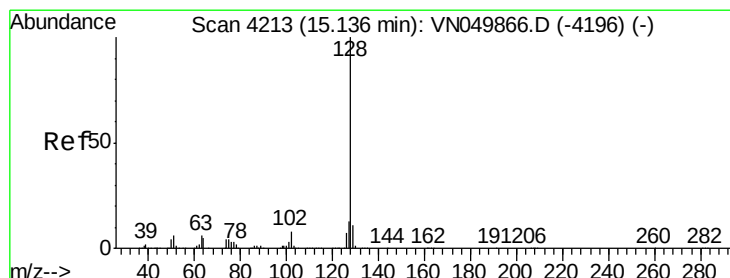
Tot Ion:180 Resp: 67
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.3 141.9#
 145 0.0 14.4 43.0#



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

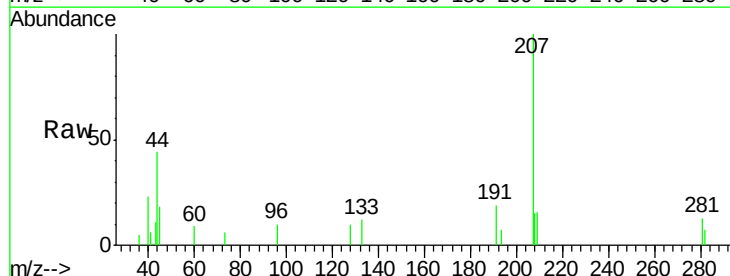


Time-->

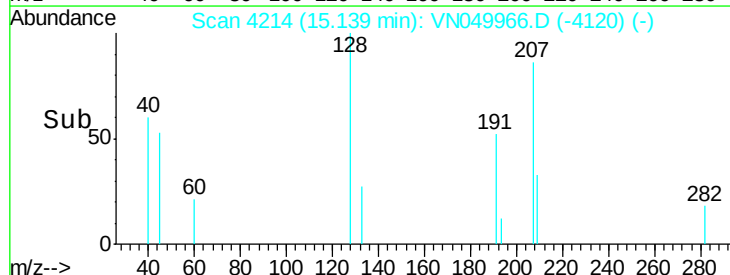
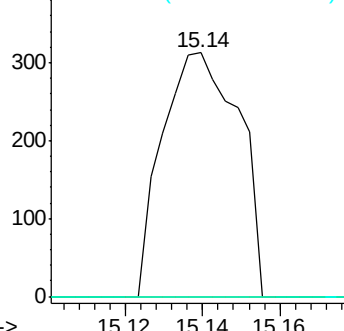


#95
 Naphthalene
 Concen: 4.52 ug/l
 RT: 15.14 min Scan# 4214
 Delta R.T. 0.00 min
 Lab File: VN049966.D
 Acq: 20 Jul 2018 16:47

Tgt Ion:128 Resp: 430
 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): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V



Time-->