

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072018\
 Data File : VN049994.D
 Acq On : 21 Jul 2018 6:58
 Operator : MD\SY
 Sample : J4062-36
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-11

Quant Time: Jul 23 01:02:04 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	535586	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	922350	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	764017	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	274334	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	391494	53.18	ug/l	0.00
Spiked Amount			Recovery	=	106.36%	
35) Dibromofluoromethane	7.59	113	346989	44.81	ug/l	0.00
Spiked Amount			Recovery	=	89.62%	
50) Toluene-d8	10.09	98	1218811	43.20	ug/l	0.00
Spiked Amount			Recovery	=	86.40%	
62) 4-Bromofluorobenzene	12.40	95	331219	34.09	ug/l	0.00
Spiked Amount			Recovery	=	68.18%	

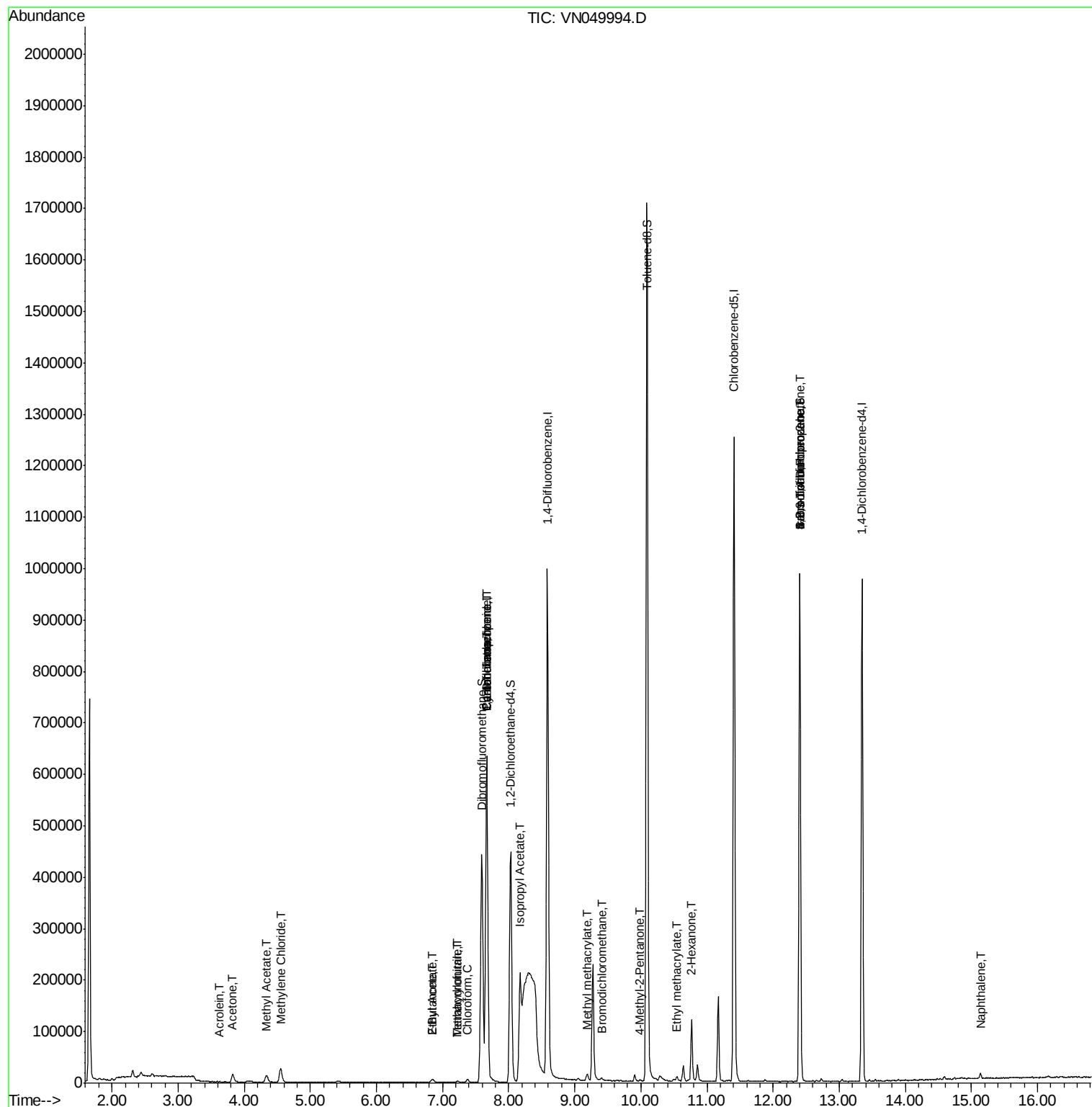
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	64	Below Cal		99
13) Acrolein	3.61	56	278	0.82	ug/l #	55
16) Acetone	3.82	43	25702	13.49	ug/l	92
18) Methyl Acetate	4.34	43	26189	3.61	ug/l	99
20) Methylene Chloride	4.55	84	19696	2.72	ug/l	95
25) 2-Butanone	6.85	43	7710	2.83	ug/l	98
29) Tetrahydrofuran	7.22	42	945	0.55	ug/l #	74
30) Chloroform	7.38	83	7038	0.57	ug/l	96
31) Cyclohexane	7.67	56	10544	1.08	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	39640	3.87	ug/l #	49
37) Ethyl Acetate	6.85	43	7710	1.09	ug/l #	69
38) Carbon Tetrachloride	7.67	117	47863	4.36	ug/l #	16
41) Methacrylonitrile	7.23	41	868	0.25	ug/l #	43
43) Isopropyl Acetate	8.17	43	270383	21.98	ug/l #	92
47) Bromodichloromethane	9.40	83	2389	0.22	ug/l #	85
48) Methyl methacrylate	9.18	41	7088	1.15	ug/l #	17
51) 4-Methyl-2-Pentanone	9.98	43	2686	0.39	ug/l #	54
56) Ethyl methacrylate	10.55	69	65	2.16	ug/l #	1
59) 2-Hexanone	10.77	43	15508	3.36	ug/l #	60
71) Bromoform	12.40	173	2483	0.47	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	162407	31.56	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	162407	98.68	ug/l #	13
95) Naphthalene	15.14	128	9435	5.15	ug/l	99

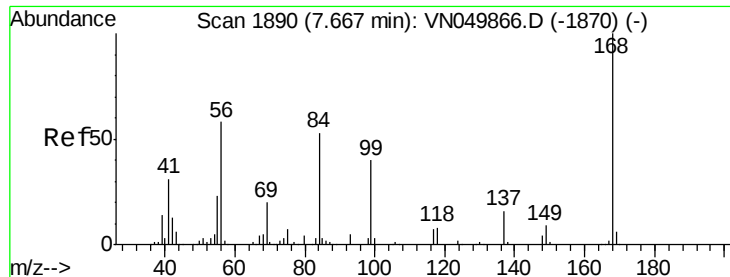
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 23 01:02:04 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
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# 1890

Delta R.T. 0.00 min

Lab File: VN049994.D

Acq: 21 Jul 2018 6:58

Instrument :

MSVOA_N

ClientSampled :

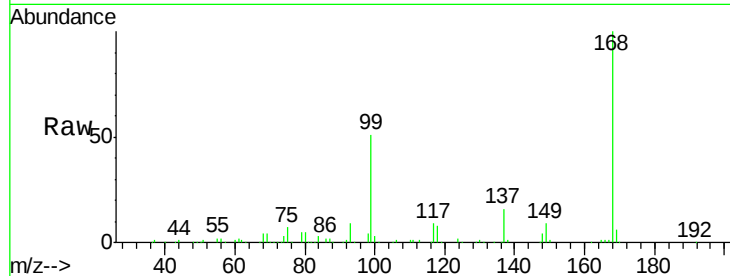
TP-11

Tot Ion:168 Resp: 535586

Ion Ratio Lower Upper

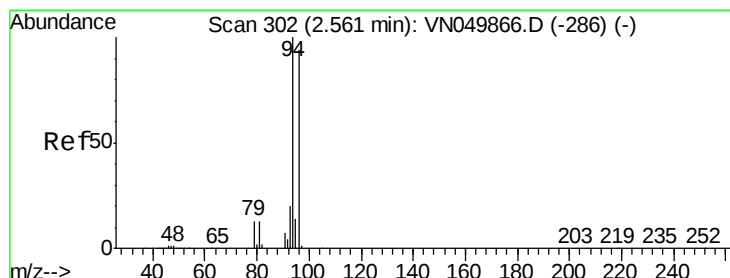
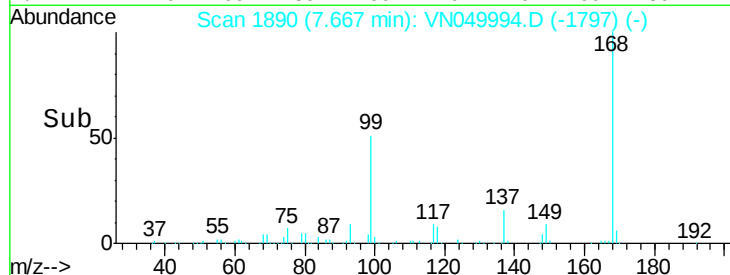
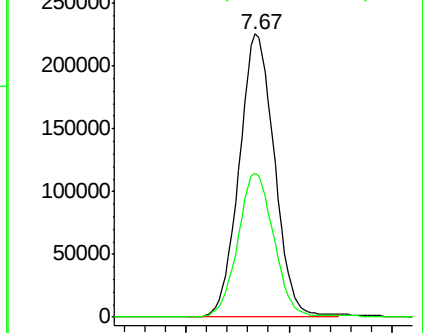
168 100

99 51.0 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): VN049866.D (-1870) (-)

Ion 98.90 (98.60 to 99.60): VN049866.D (-1870) (-)



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 297

Delta R.T. -0.02 min

Lab File: VN049994.D

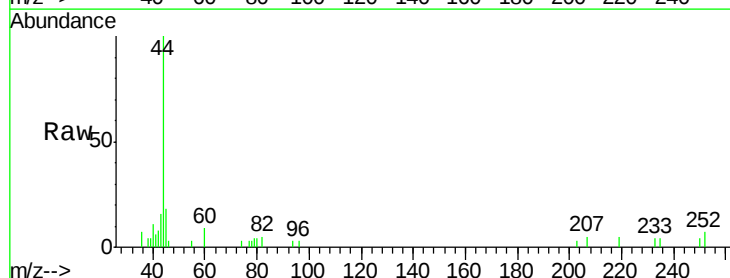
Acq: 21 Jul 2018 6:58

Tgt Ion: 94 Resp: 64

Ion Ratio Lower Upper

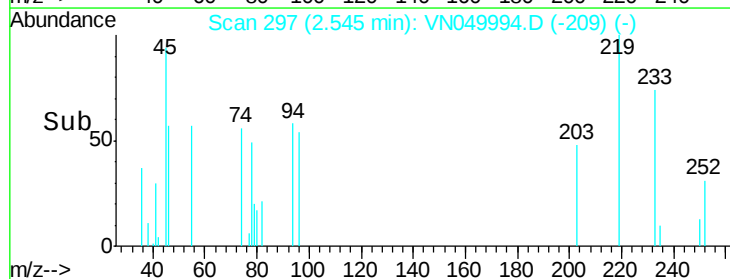
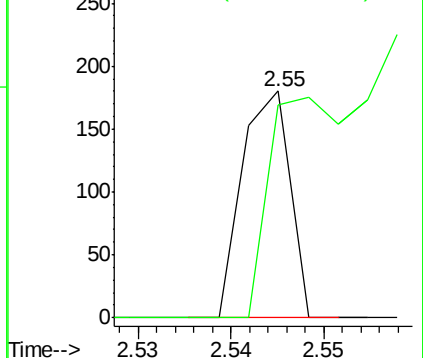
94 100

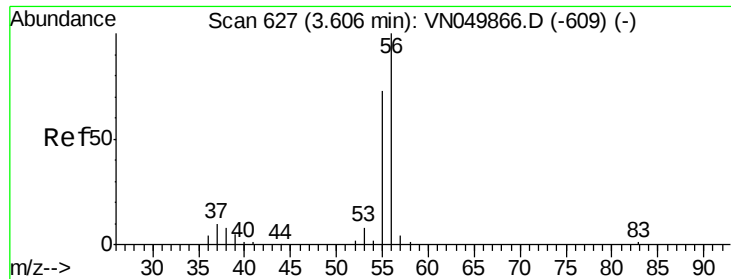
96 93.9 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VN049866.D (-286) (-)

Ion 95.90 (95.60 to 96.60): VN049866.D (-286) (-)





#13

Acrolein

Concen: 0.82 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN049994.D

Acq: 21 Jul 2018 6:58

Instrument :

MSVOA_N

ClientSampleId :

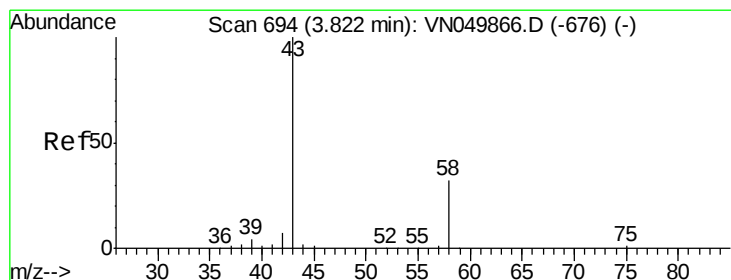
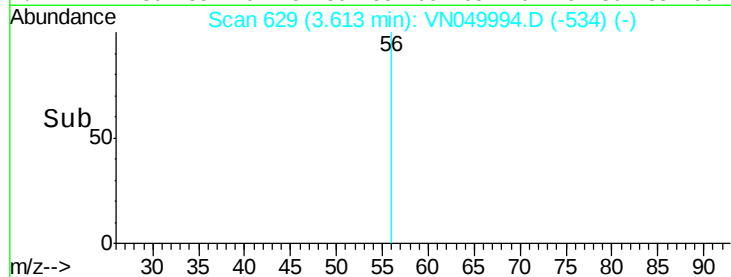
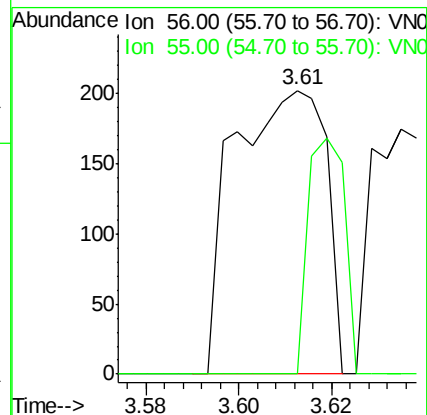
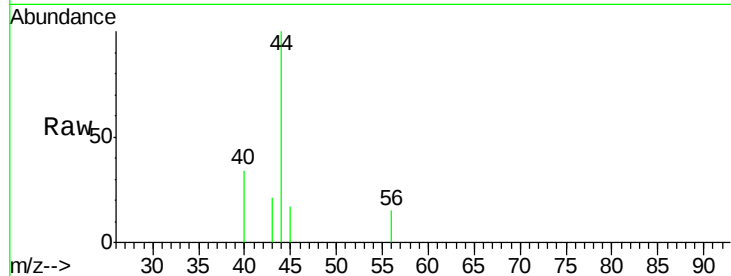
TP-11

Tot Ion: 56 Resp: 278

Ion Ratio Lower Upper

56 100

55 32.7 55.8 83.8#



#16

Acetone

Concen: 13.49 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN049994.D

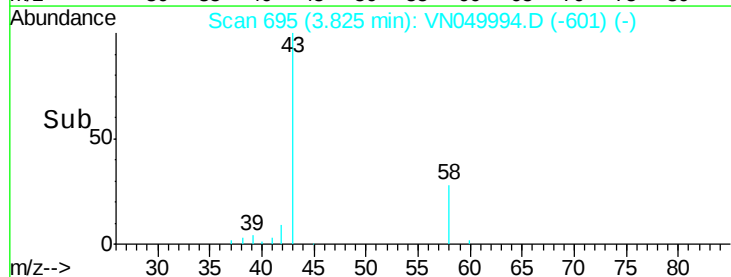
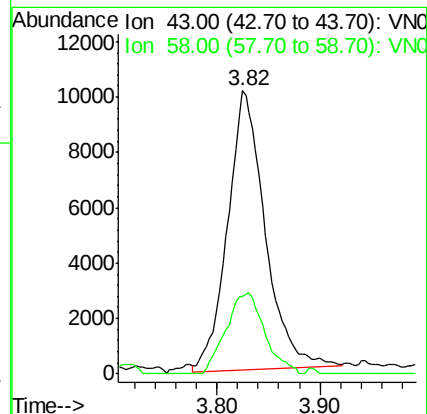
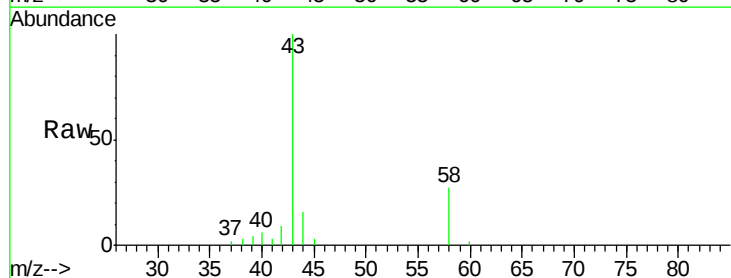
Acq: 21 Jul 2018 6:58

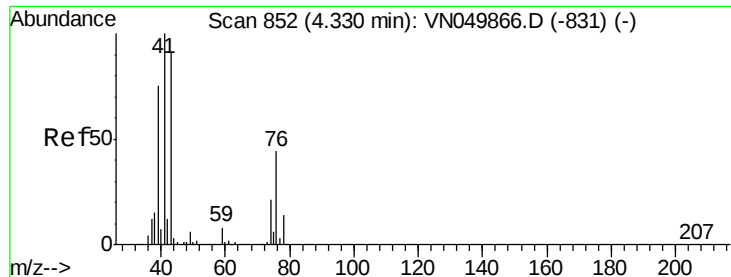
Tgt Ion: 43 Resp: 25702

Ion Ratio Lower Upper

43 100

58 28.0 25.9 38.9

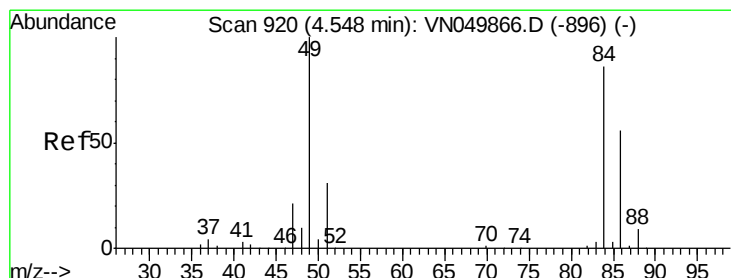
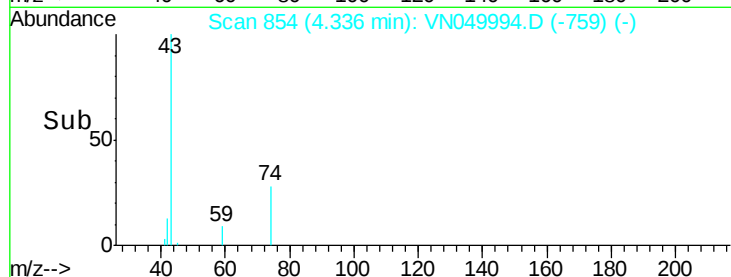
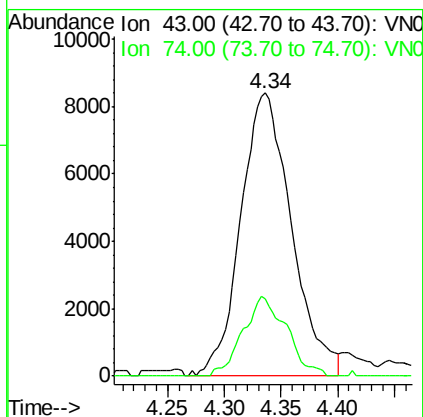
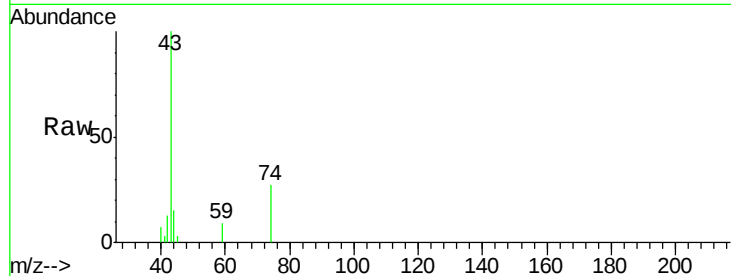




#18
Methvl Acetate
Concen: 3.61 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN049994.D
Acq: 21 Jul 2018 6:58

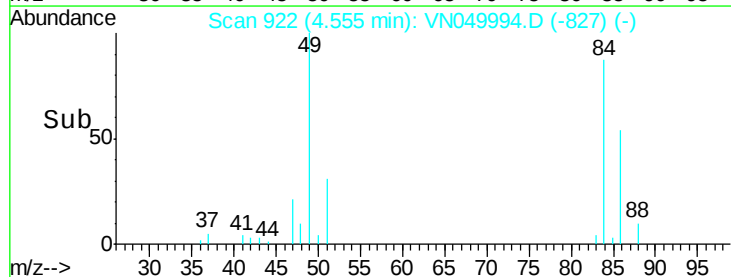
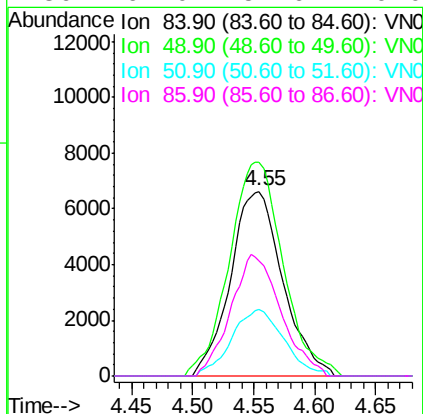
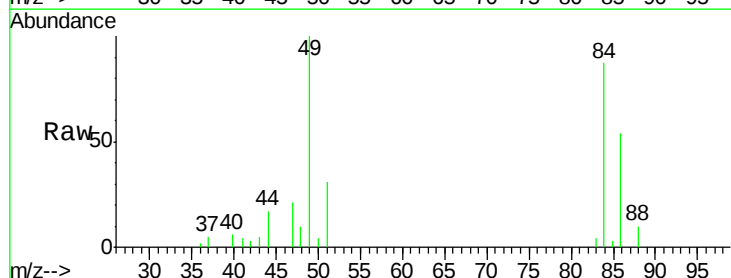
Instrument :
MSVOA_N
ClientSampleId :
TP-11

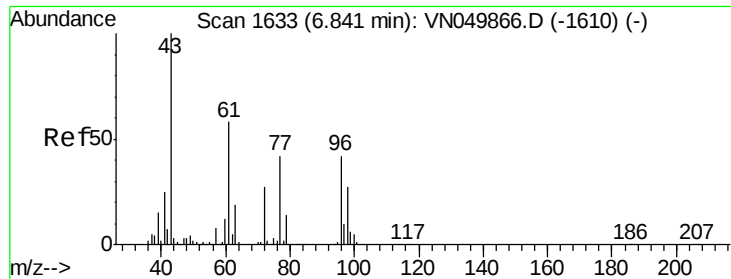
Tot Ion: 43 Resp: 26189
Ion Ratio Lower Upper
43 100
74 24.1 19.8 29.8



#20
Methylene Chloride
Concen: 2.72 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.01 min
Lab File: VN049994.D
Acq: 21 Jul 2018 6:58

Tgt Ion: 84 Resp: 19696
Ion Ratio Lower Upper
84 100
49 113.1 95.4 143.2
51 36.0 28.4 42.6
86 62.0 52.6 79.0

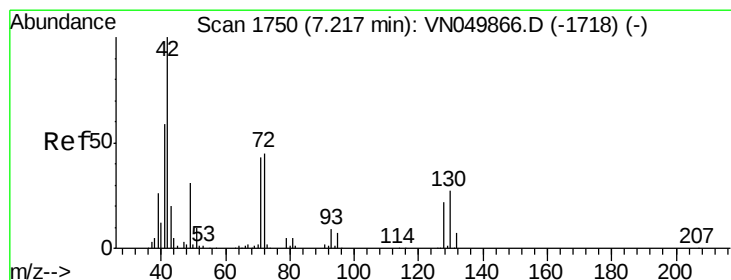
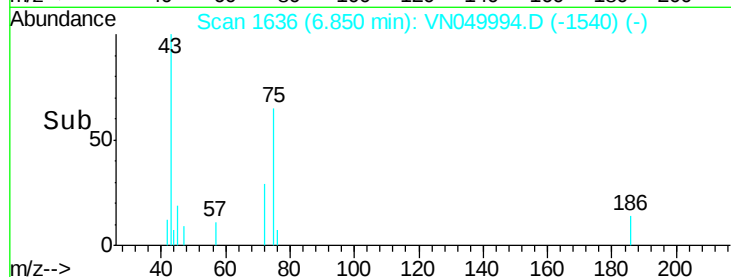
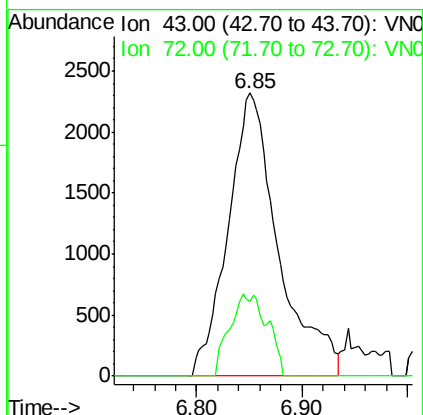
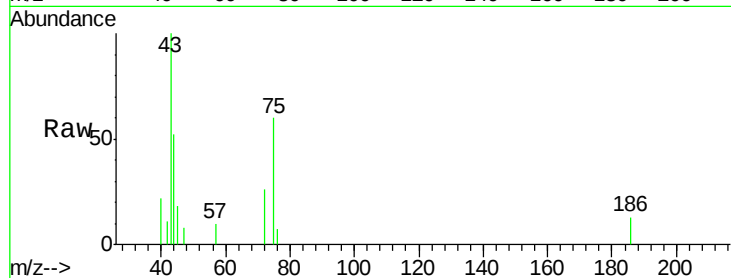




#25
2-Butanone
Concen: 2.83 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN049994.D
Acq: 21 Jul 2018 6:58

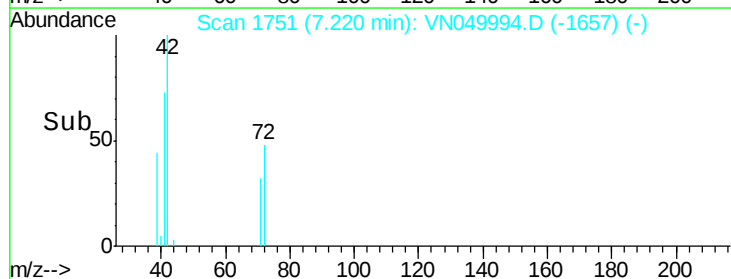
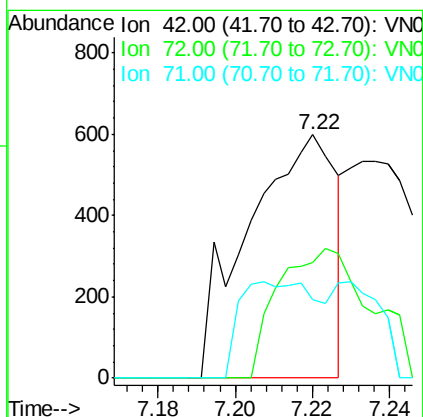
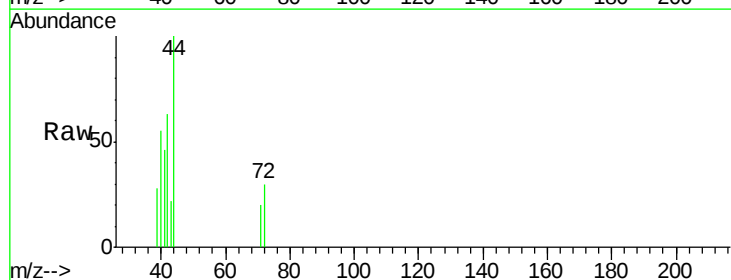
Instrument :
MSVOA_N
ClientSampled :
TP-11

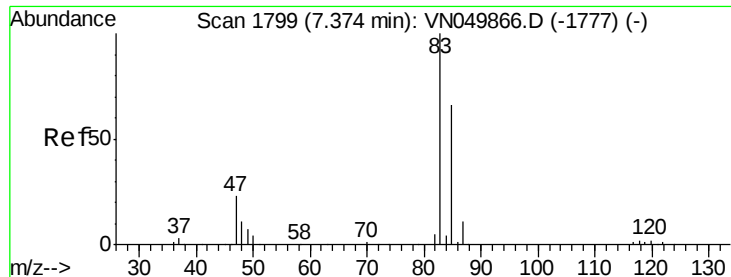
Tot Ion: 43 Resp: 7710
Ion Ratio Lower Upper
43 100
72 26.4 22.1 33.1



#29
Tetrahydrofuran
Concen: 0.55 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.00 min
Lab File: VN049994.D
Acq: 21 Jul 2018 6:58

Tgt Ion: 42 Resp: 945
Ion Ratio Lower Upper
42 100
72 55.9 35.6 53.4#
71 20.8 34.0 51.0#

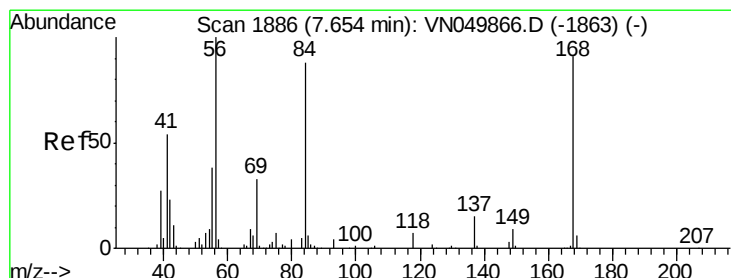
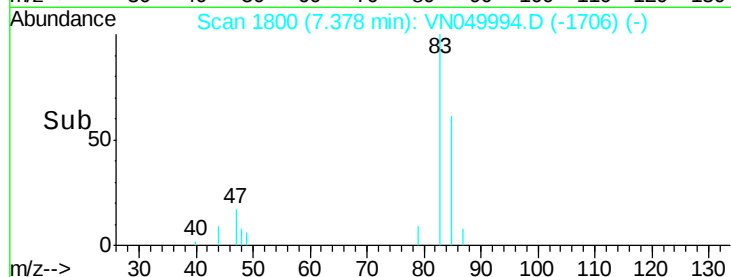
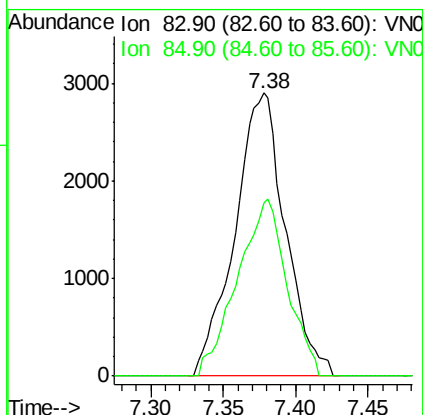
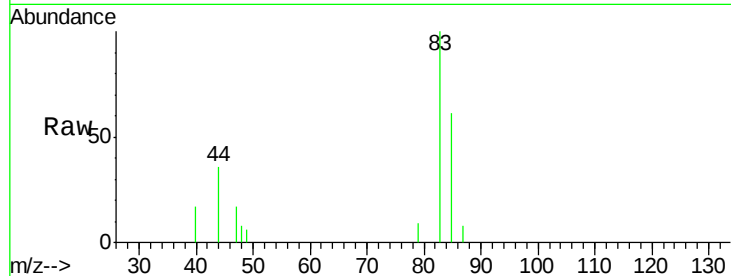




#30
Chloroform
Concen: 0.57 ug/l
RT: 7.38 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VN049994.D
Acq: 21 Jul 2018 6:58

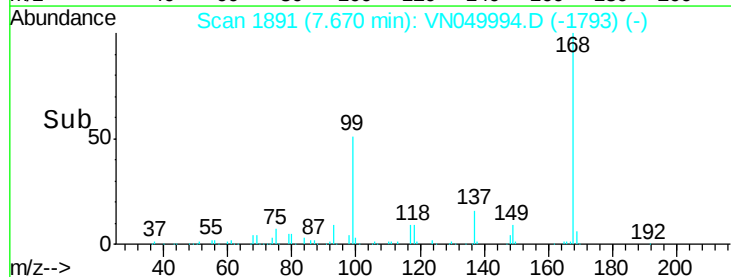
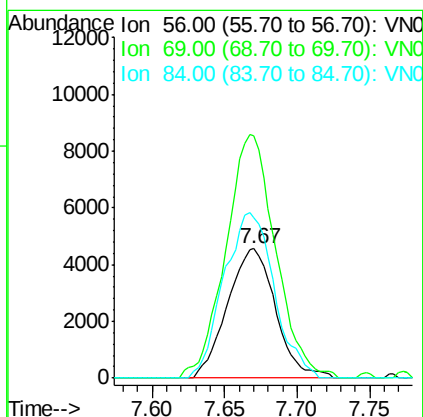
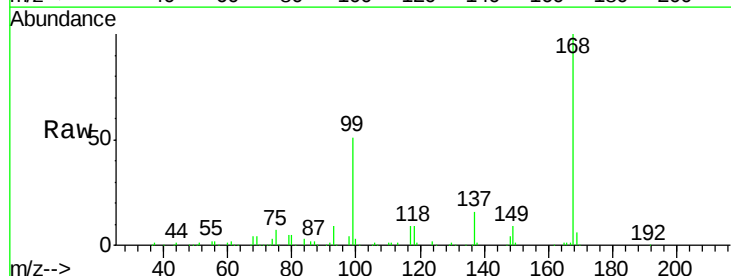
Instrument :
MSVOA_N
ClientSampled :
TP-11

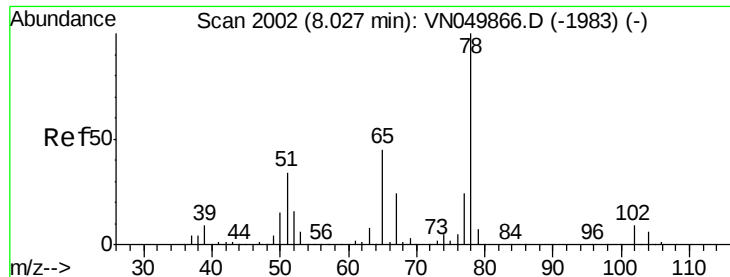
Tot Ion: 83 Resp: 7038
Ion Ratio Lower Upper
83 100
85 61.2 51.4 77.2



#31
Cyclohexane
Concen: 1.08 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.02 min
Lab File: VN049994.D
Acq: 21 Jul 2018 6:58

Tgt Ion: 56 Resp: 10544
Ion Ratio Lower Upper
56 100
69 187.4 26.6 40.0#
84 124.3 69.0 103.6#





#33

1,2-Dichloroethane-d4

Concen: 53.18 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049994.D

Acq: 21 Jul 2018 6:58

Instrument :

MSVOA_N

ClientSampleId :

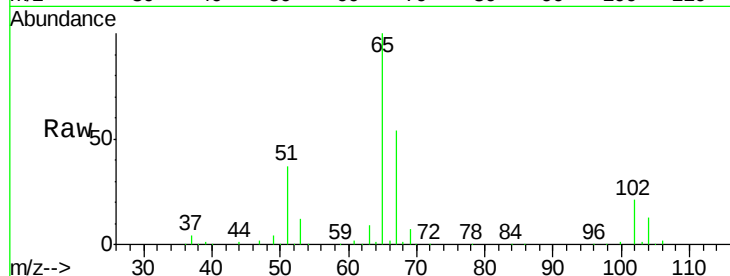
TP-11

Tot Ion: 65 Resp: 391494

Ion Ratio Lower Upper

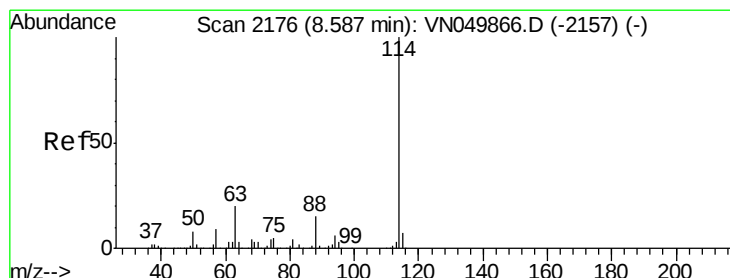
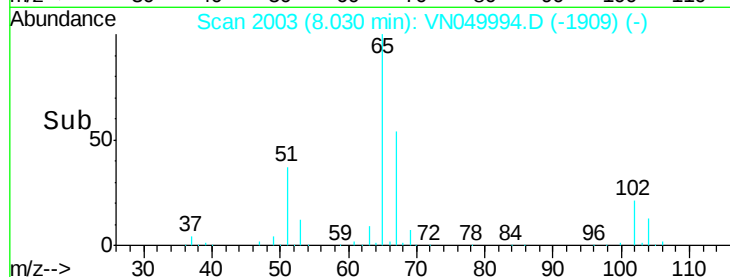
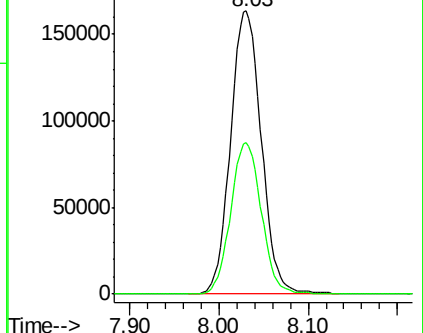
65 100

67 53.2 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VN049994.D (-1909) (-)

Ion 66.90 (66.60 to 67.60): VN049994.D (-1909) (-)



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN049994.D

Acq: 21 Jul 2018 6:58

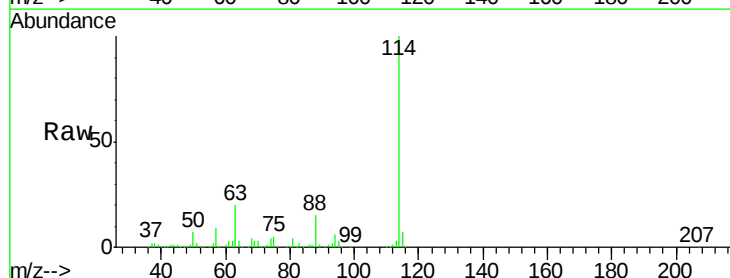
Tgt Ion: 114 Resp: 922350

Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.8

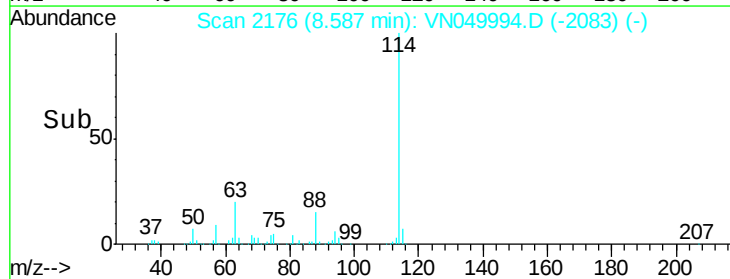
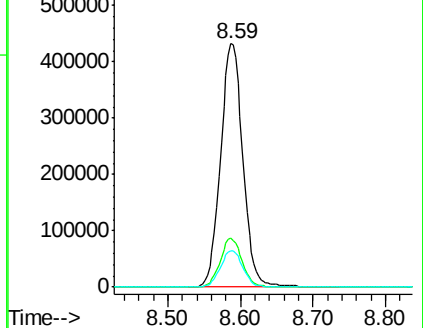
88 15.0 0.0 30.6

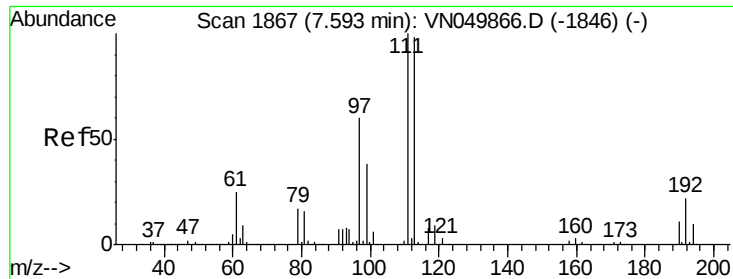


Abundance Ion 113.90 (113.60 to 114.60): VN049994.D (-2083) (-)

Ion 63.00 (62.70 to 63.70): VN049994.D (-2083) (-)

Ion 87.90 (87.60 to 88.60): VN049994.D (-2083) (-)

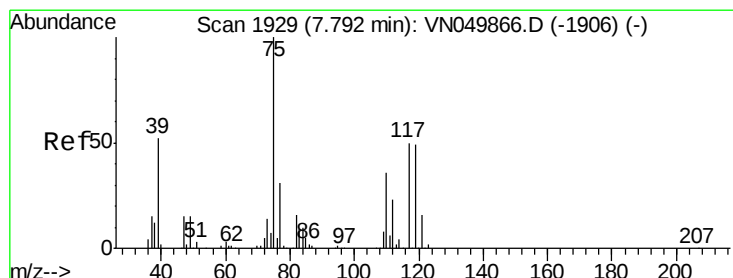
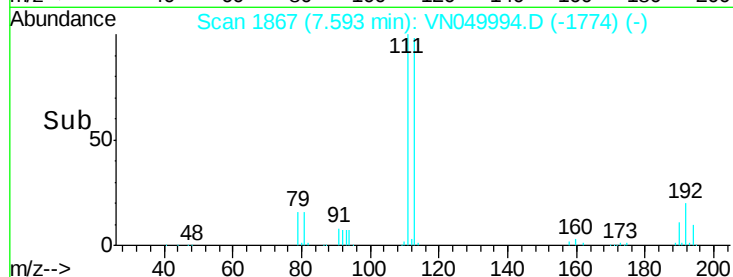
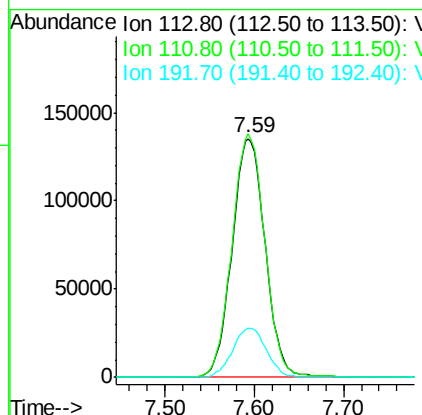
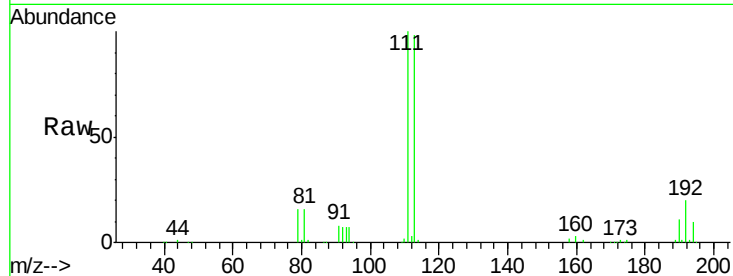




#35
 Dibromofluoromethane
 Concen: 44.81 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049994.D
 Acq: 21 Jul 2018 6:58

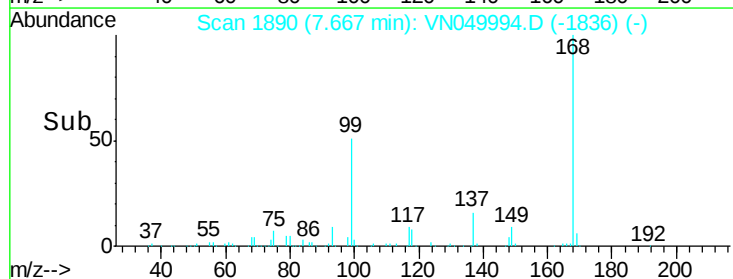
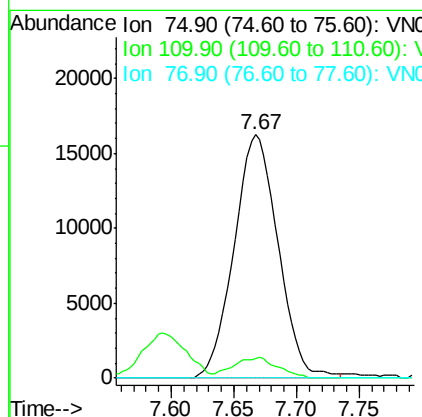
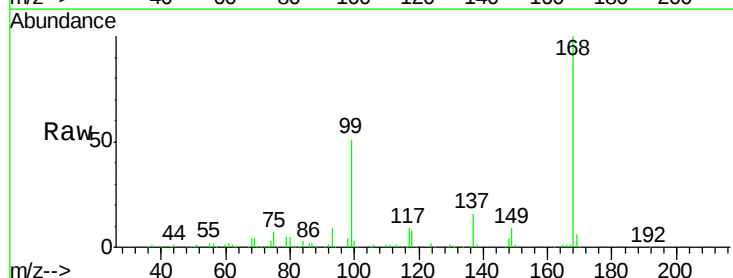
Instrument :
 MSVOA_N
 ClientSampled :
 TP-11

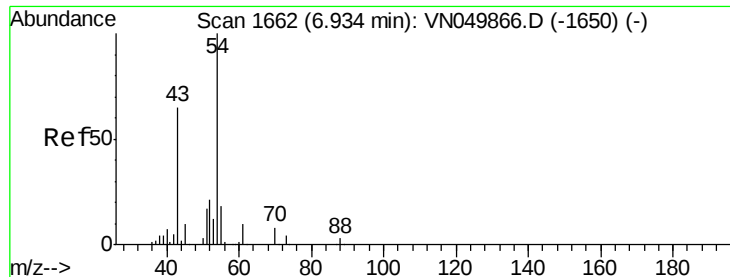
Tot Ion:113 Resp: 346989
 Ion Ratio Lower Upper
 113 100
 111 101.7 81.8 122.8
 192 21.2 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.87 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049994.D
 Acq: 21 Jul 2018 6:58

Tgt Ion: 75 Resp: 39640
 Ion Ratio Lower Upper
 75 100
 110 8.6 18.1 54.4#
 77 0.0 24.9 37.3#

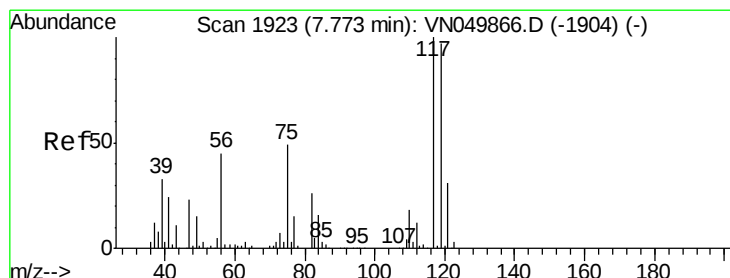
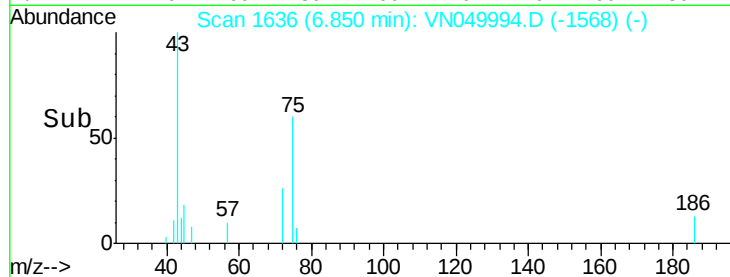
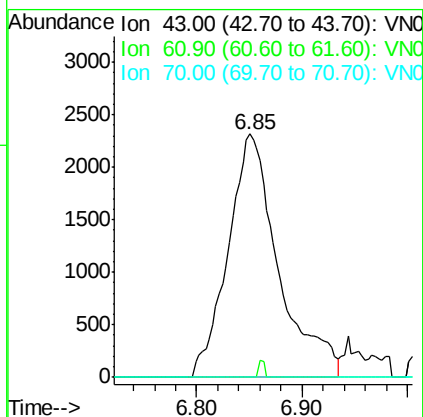
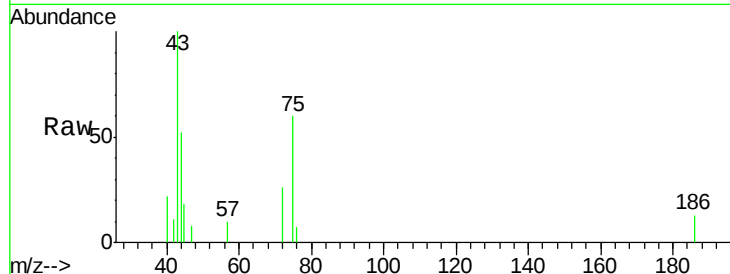




#37
Ethyl Acetate
Concen: 1.09 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. -0.08 min
Lab File: VN049994.D
Acq: 21 Jul 2018 6:58

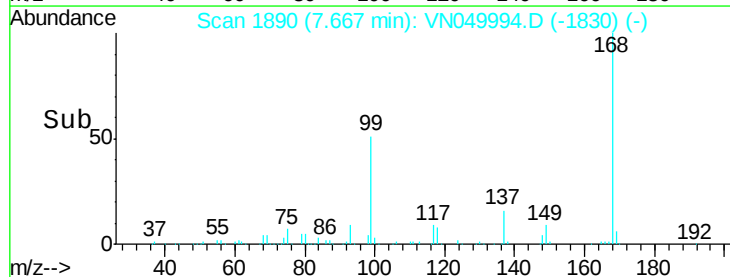
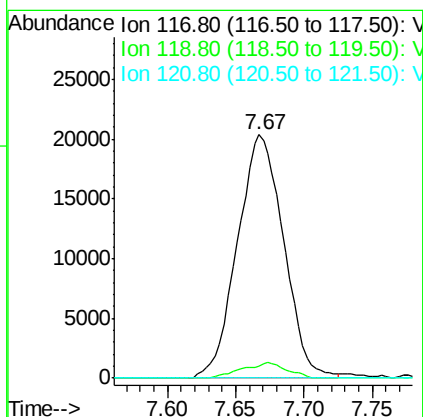
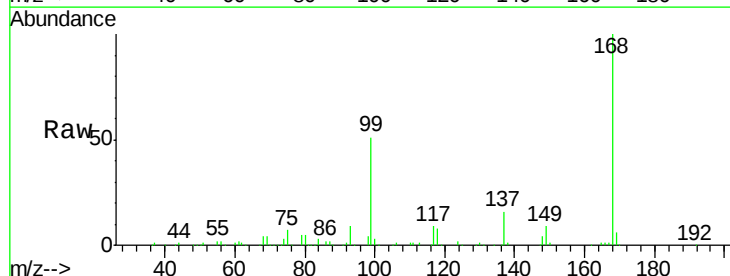
Instrument :
MSVOA_N
ClientSampleId :
TP-11

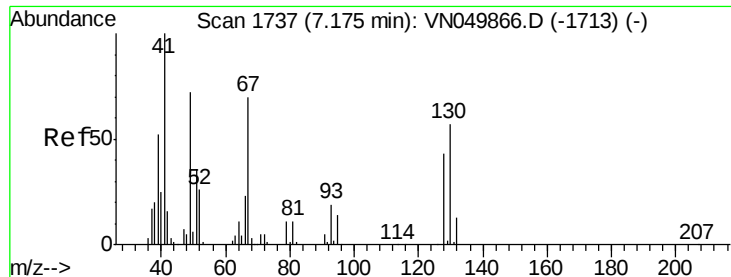
Tot Ion: 43 Resp: 7710
Ion Ratio Lower Upper
43 100
61 0.8 11.7 17.5#
70 0.0 8.4 12.6#



#38
Carbon Tetrachloride
Concen: 4.36 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN049994.D
Acq: 21 Jul 2018 6:58

Tgt Ion: 117 Resp: 47863
Ion Ratio Lower Upper
117 100
119 5.0 77.2 115.8#
121 0.0 25.0 37.6#

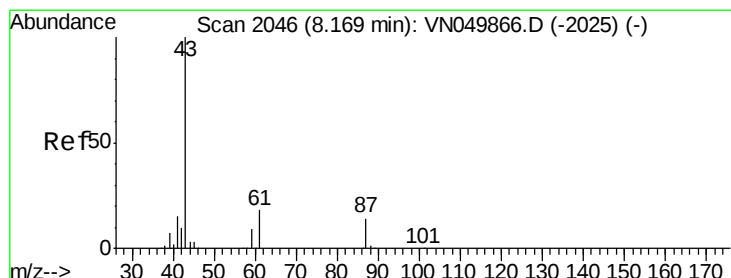
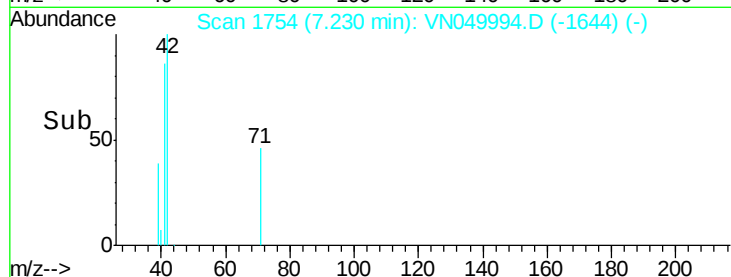
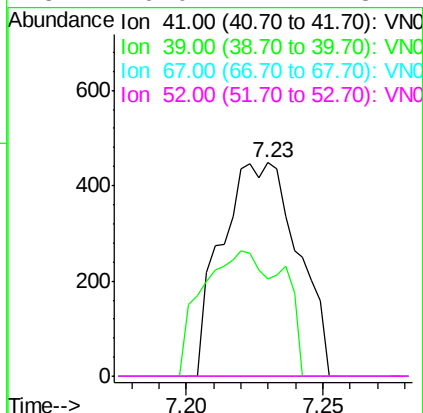
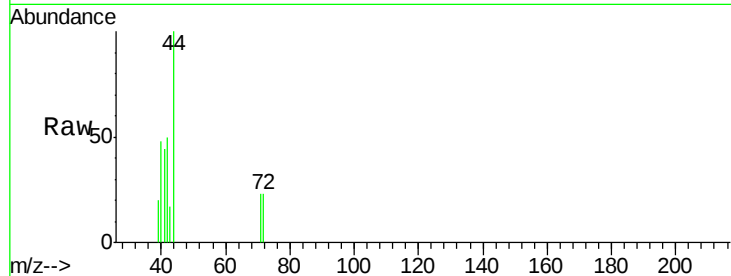




#41
Methacrylonitrile
Concen: 0.25 ug/l
RT: 7.23 min Scan# 1754
Delta R.T. 0.05 min
Lab File: VN049994.D
Acq: 21 Jul 2018 6:58

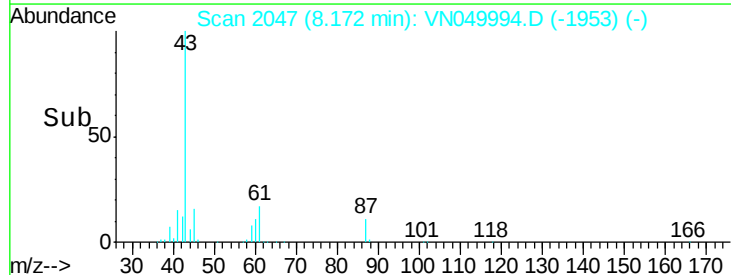
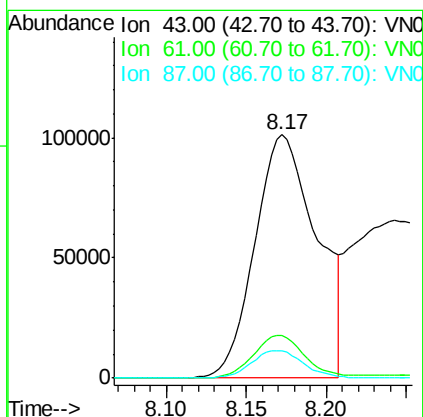
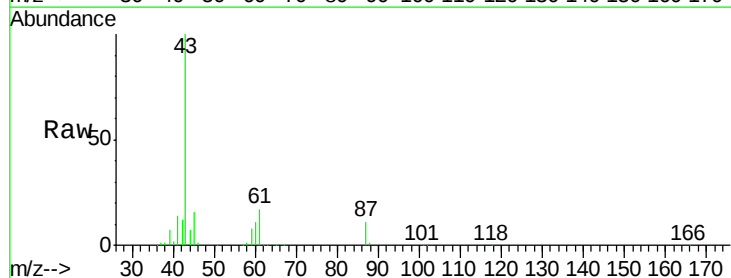
Instrument :
MSVOA_N
ClientSampled :
TP-11

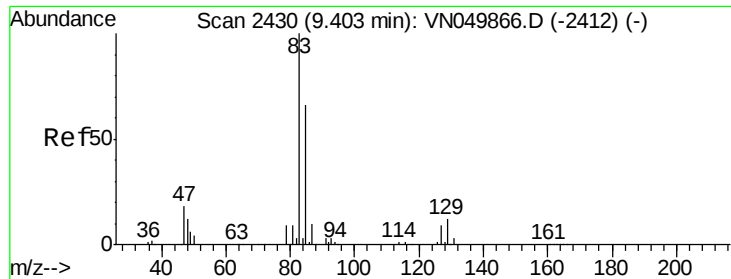
Tot Ion: 41 Resp: 868
Ion Ratio Lower Upper
41 100
39 61.9 45.4 68.2
67 0.0 65.4 98.0#
52 0.0 24.7 37.1#



#43
Isopropyl Acetate
Concen: 21.98 ug/l
RT: 8.17 min Scan# 2047
Delta R.T. 0.00 min
Lab File: VN049994.D
Acq: 21 Jul 2018 6:58

Tgt Ion: 43 Resp: 270383
Ion Ratio Lower Upper
43 100
61 14.9 14.9 22.3
87 9.6 10.0 15.0#





#47

Bromodichloromethane

Concen: 0.22 ug/l

RT: 9.40 min Scan# 2429

Delta R.T. -0.00 min

Lab File: VN049994.D

Acq: 21 Jul 2018 6:58

Instrument :

MSVOA_N

ClientSampled :

TP-11

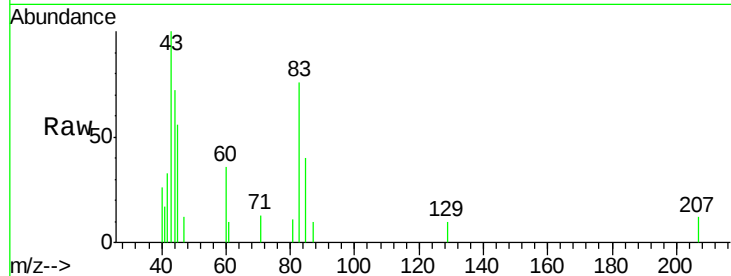
Tot Ion: 83 Resp: 2389

Ion Ratio Lower Upper

83 100

85 52.8 50.5 75.7

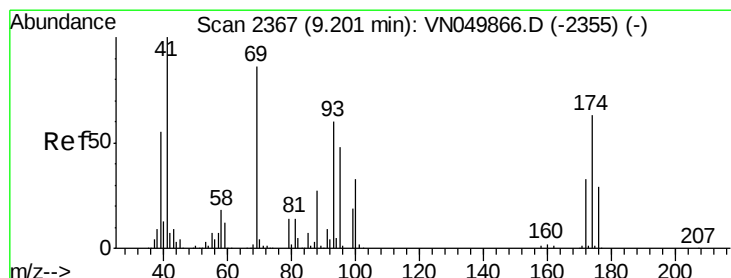
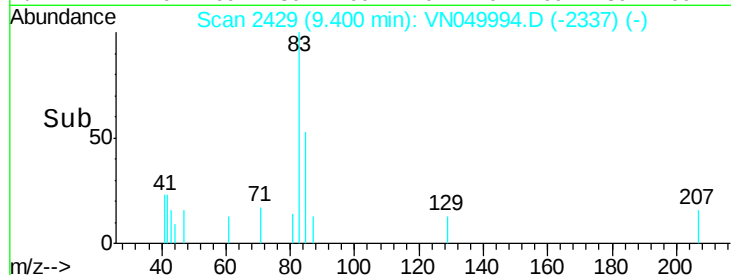
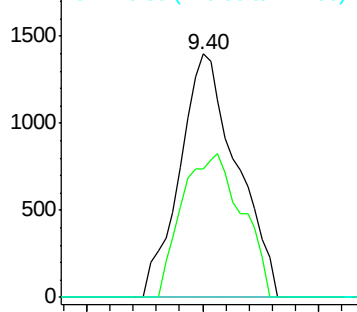
127 0.0 6.8 10.2#



Abundance Ion 82.90 (82.60 to 83.60): VN049866.D (-2412) (-)

Ion 84.90 (84.60 to 85.60): VN049866.D (-2412) (-)

Ion 126.80 (126.50 to 127.50): VN049866.D (-2412) (-)



#48

Methyl methacrylate

Concen: 1.15 ug/l

RT: 9.18 min Scan# 2361

Delta R.T. -0.02 min

Lab File: VN049994.D

Acq: 21 Jul 2018 6:58

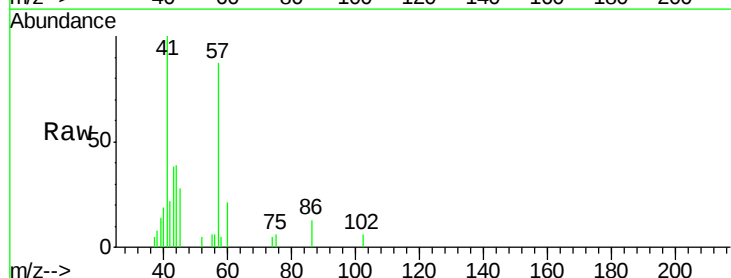
Tgt Ion: 41 Resp: 7088

Ion Ratio Lower Upper

41 100

69 0.0 71.5 107.3#

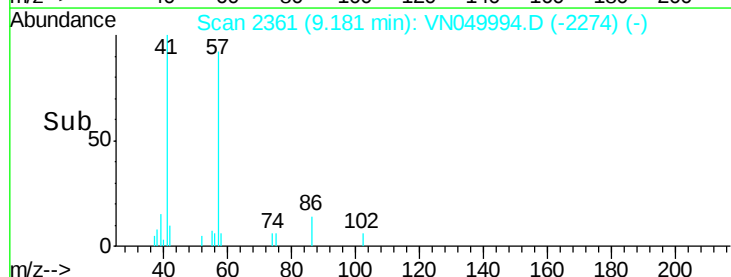
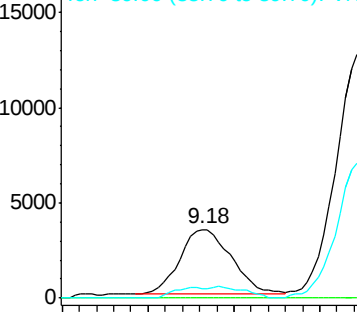
39 10.5 44.7 67.1#

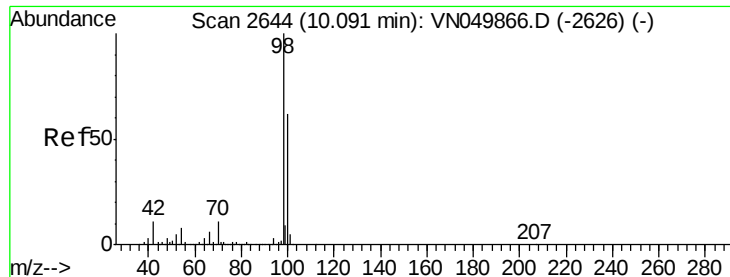


Abundance Ion 41.00 (40.70 to 41.70): VN049866.D (-2355) (-)

Ion 69.00 (68.70 to 69.70): VN049866.D (-2355) (-)

Ion 39.00 (38.70 to 39.70): VN049866.D (-2355) (-)





#50

Toluene-d8

Concen: 43.20 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN049994.D

Acq: 21 Jul 2018 6:58

Instrument :

MSVOA_N

ClientSampleId :

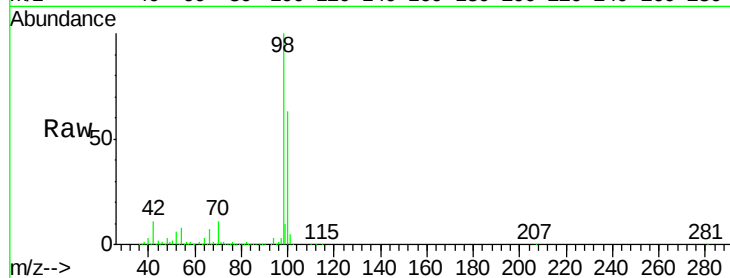
TP-11

Tot Ion: 98 Resp: 1218811

Ion Ratio Lower Upper

98 100

100 63.3 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN049866.D (-2626) (-)

Ion 100.00 (99.70 to 100.70): VN049866.D (-2626) (-)

10.09

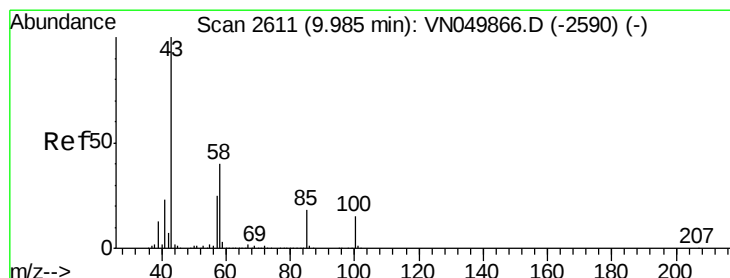
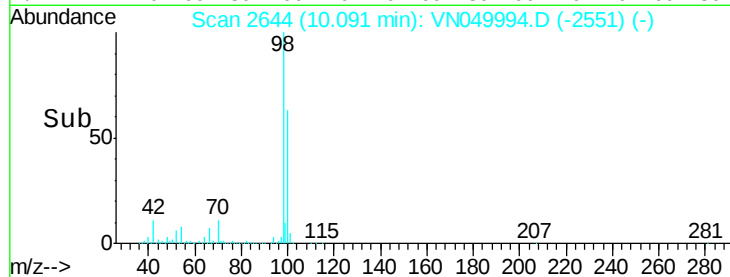
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.39 ug/l

RT: 9.98 min Scan# 2609

Delta R.T. -0.01 min

Lab File: VN049994.D

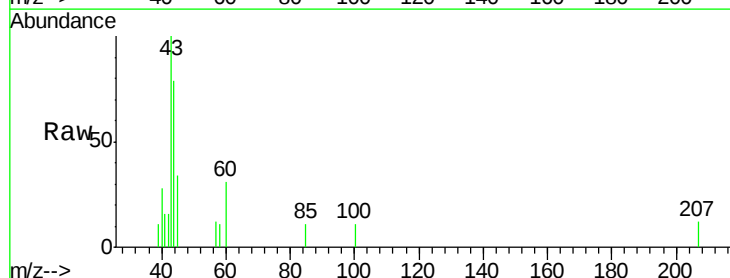
Acq: 21 Jul 2018 6:58

Tgt Ion: 43 Resp: 2686

Ion Ratio Lower Upper

43 100

58 11.3 31.8 47.8#



Abundance Ion 43.00 (42.70 to 43.70): VN049866.D (-2590) (-)

Ion 58.00 (57.70 to 58.70): VN049866.D (-2590) (-)

9.98

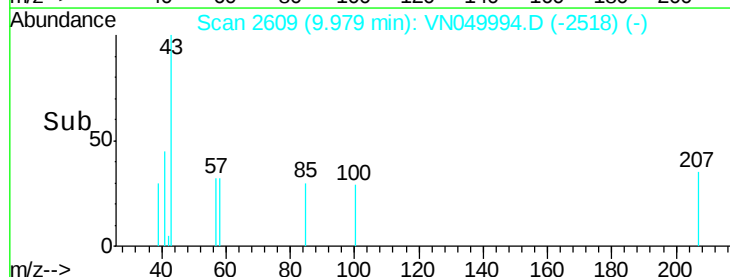
3000

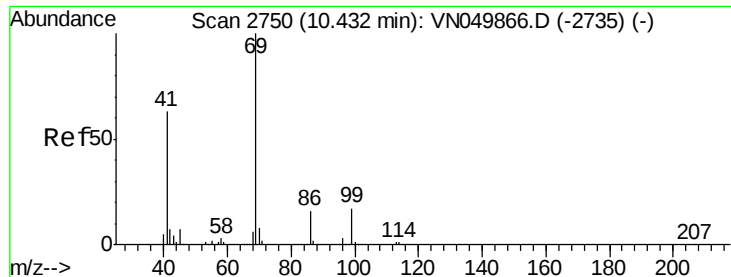
2000

1000

0

Time-->





#56

Ethyl methacrylate

Concen: 2.16 ug/l

RT: 10.55 min Scan# 2787

Delta R.T. 0.12 min

Lab File: VN049994.D

Acq: 21 Jul 2018 6:58

Instrument :

MSVOA_N

ClientSampled :

TP-11

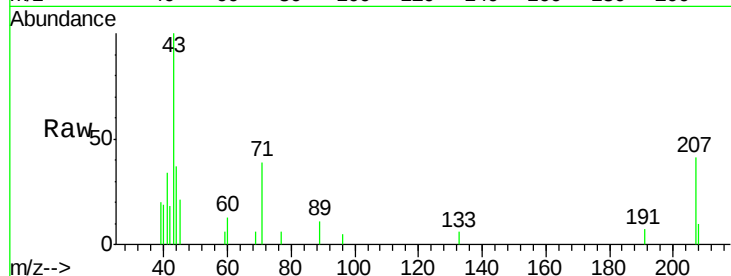
Tot Ion: 69 Resp: 65

Ion Ratio Lower Upper

69 100

41 2844.6 51.6 77.4#

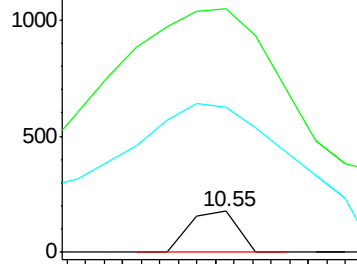
39 1552.3 25.8 38.8#



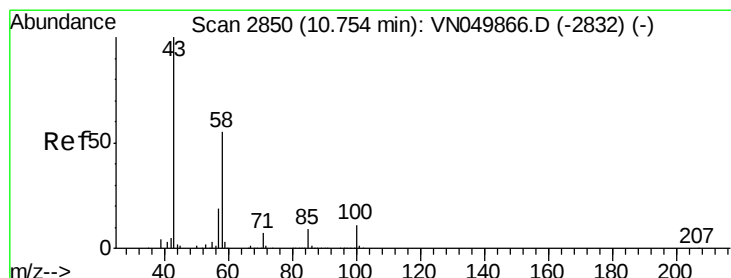
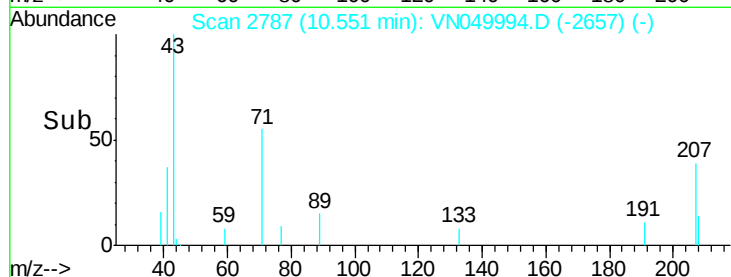
Abundance Ion 69.00 (68.70 to 69.70): VN049866.D (-2735) (-)

Ion 41.00 (40.70 to 41.70): VN049866.D (-2735) (-)

Ion 39.00 (38.70 to 39.70): VN049866.D (-2735) (-)



Time-->



#59

2-Hexanone

Concen: 3.36 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN049994.D

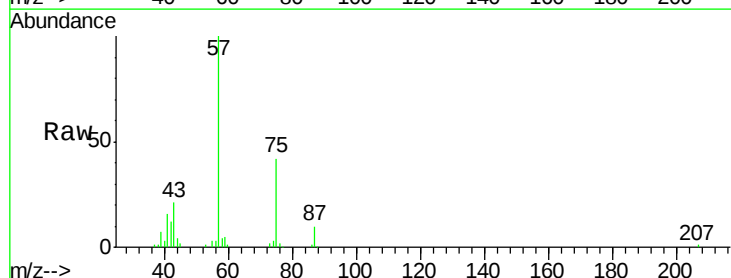
Acq: 21 Jul 2018 6:58

Tgt Ion: 43 Resp: 15508

Ion Ratio Lower Upper

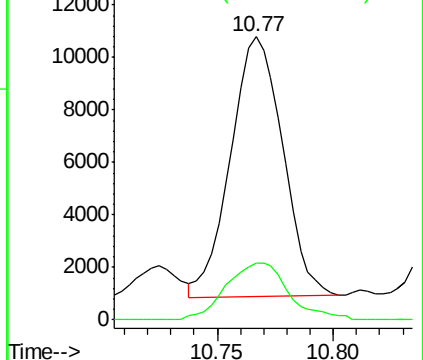
43 100

58 26.3 27.8 83.4#

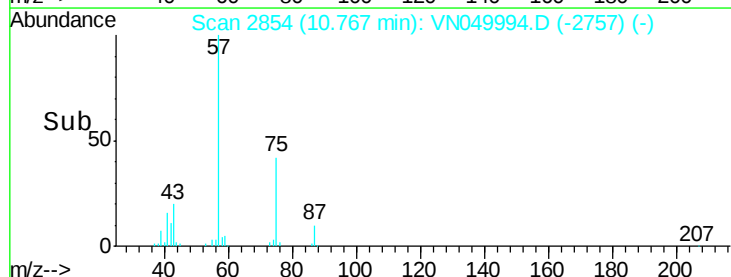


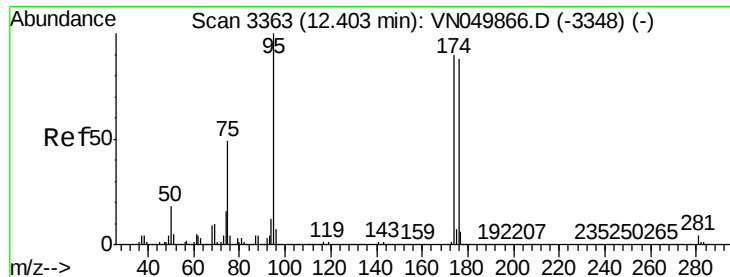
Abundance Ion 43.00 (42.70 to 43.70): VN049866.D (-2832) (-)

Ion 58.00 (57.70 to 58.70): VN049866.D (-2832) (-)



Time-->





#62

4-Bromofluorobenzene

Concen: 34.09 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049994.D

Acq: 21 Jul 2018 6:58

Instrument :

MSVOA_N

ClientSampled :

TP-11

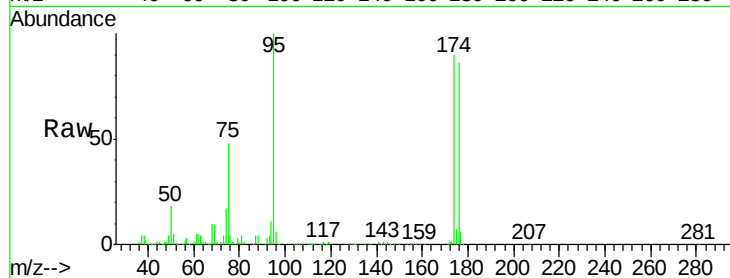
Tot Ion: 95 Resp: 331219

Ion Ratio Lower Upper

95 100

174 90.7 0.0 179.6

176 87.6 0.0 174.0



Abundance Ion 94.90 (94.60 to 95.60): VN049866.D (-3348) (-)

Ion 173.80 (173.50 to 174.50): VN049866.D (-3348) (-)

Ion 175.80 (175.50 to 176.50): VN049866.D (-3348) (-)

12.40

250000

200000

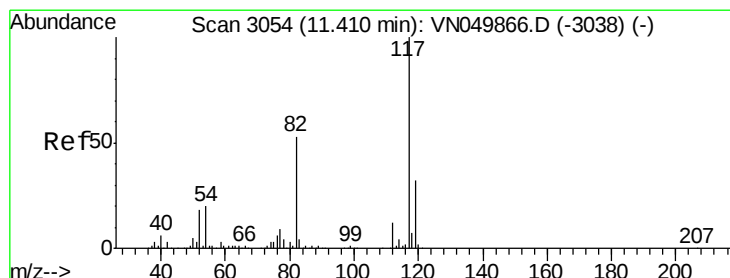
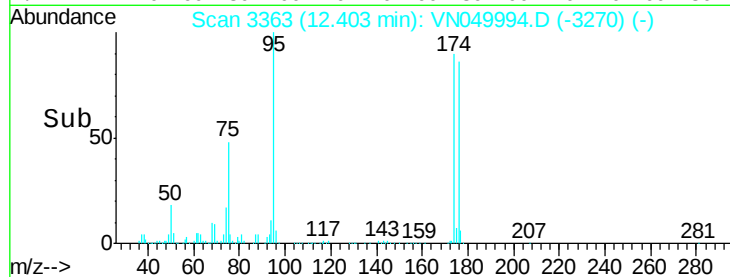
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049994.D

Acq: 21 Jul 2018 6:58

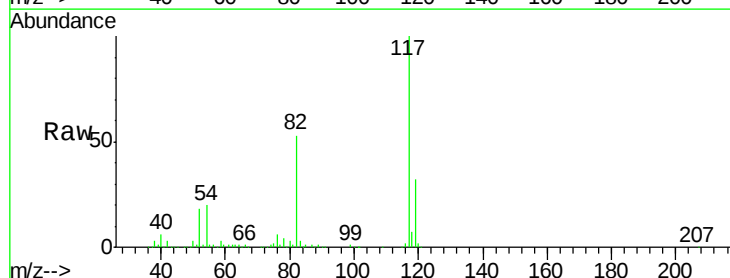
Tgt Ion: 117 Resp: 764017

Ion Ratio Lower Upper

117 100

82 52.6 41.9 62.9

119 32.3 25.4 38.2



Abundance Ion 116.90 (116.60 to 117.60): VN049866.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN049866.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN049866.D (-3038) (-)

11.41

600000

500000

400000

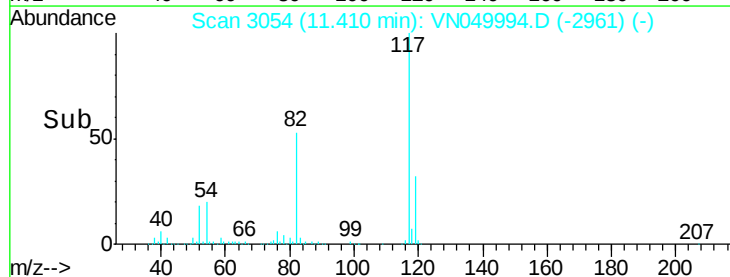
300000

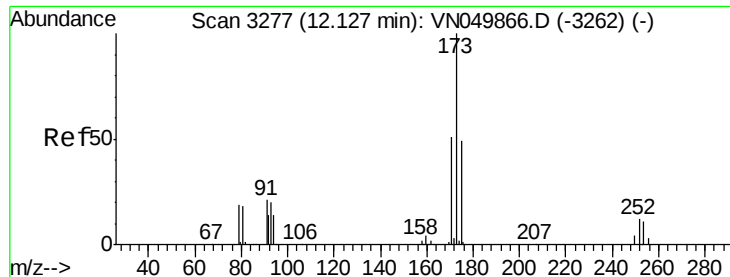
200000

100000

0

Time--> 11.30 11.40 11.50

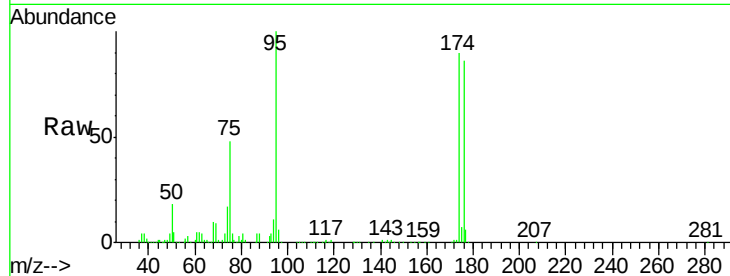




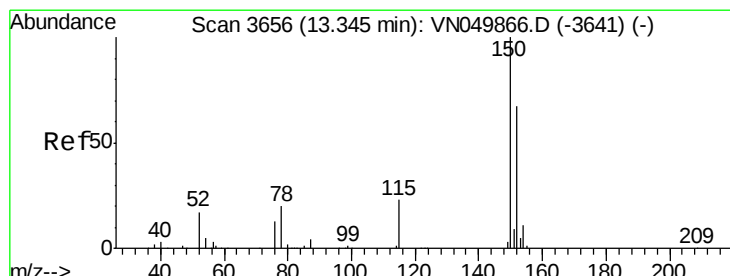
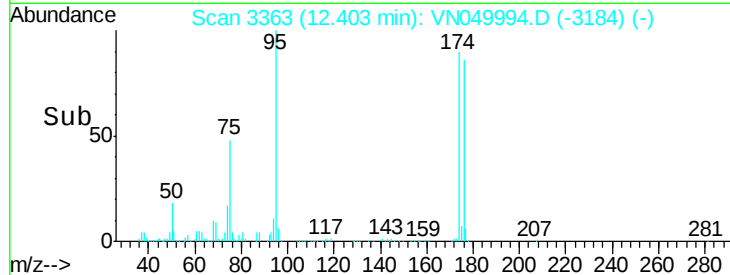
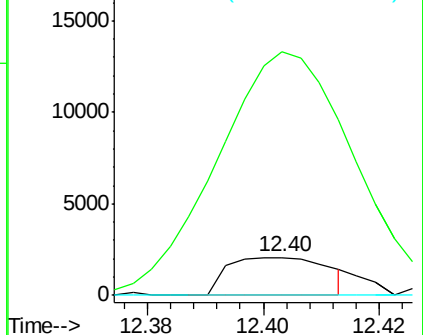
#71
Bromoform
Concen: 0.47 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN049994.D
Acq: 21 Jul 2018 6:58

Instrument :
MSVOA_N
ClientSampleId :
TP-11

Tot Ion:173 Resp: 2483
Ion Ratio Lower Upper
173 100
175 736.1 24.6 73.8#
254 0.0 0.2 0.2#

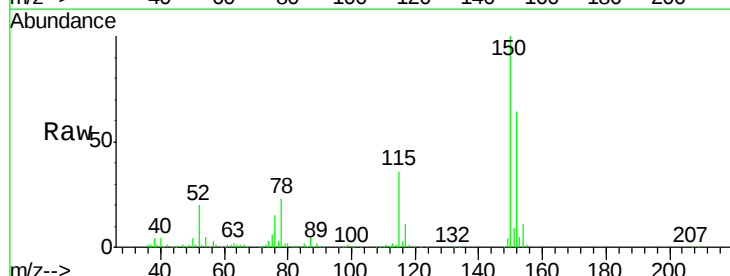


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

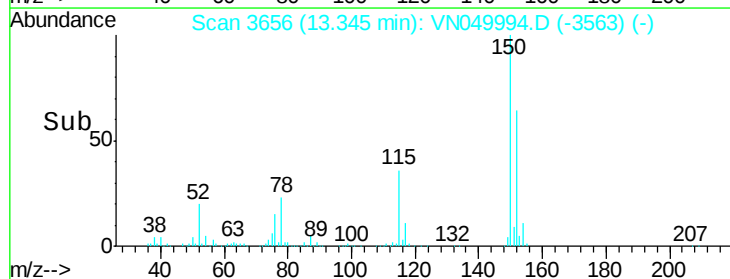
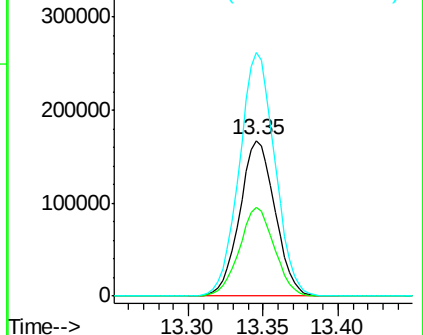


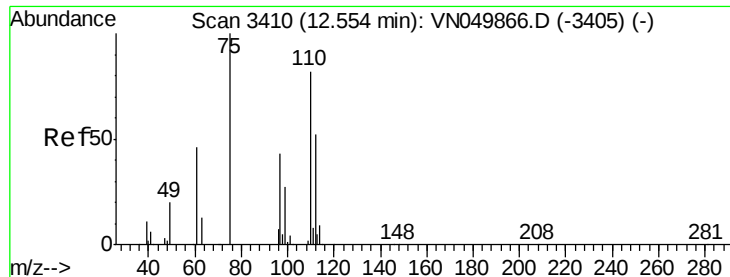
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN049994.D
Acq: 21 Jul 2018 6:58

Tgt Ion:152 Resp: 274334
Ion Ratio Lower Upper
152 100
115 56.7 28.1 84.2
150 157.6 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: 31.56 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049994.D

Acq: 21 Jul 2018 6:58

Instrument :

MSVOA_N

ClientSampleId :

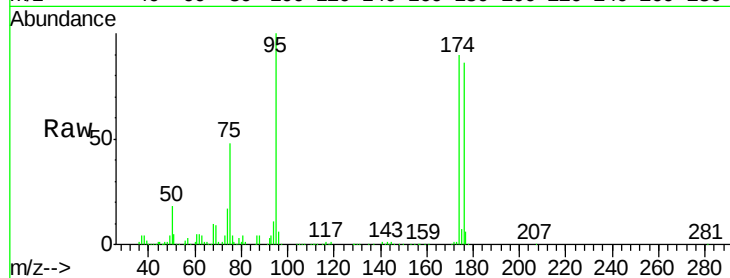
TP-11

Tot Ion: 75 Resp: 162407

Ion Ratio Lower Upper

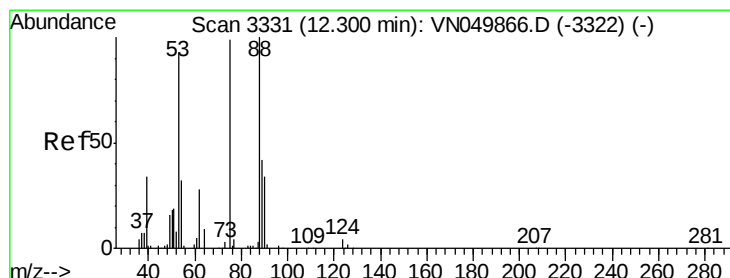
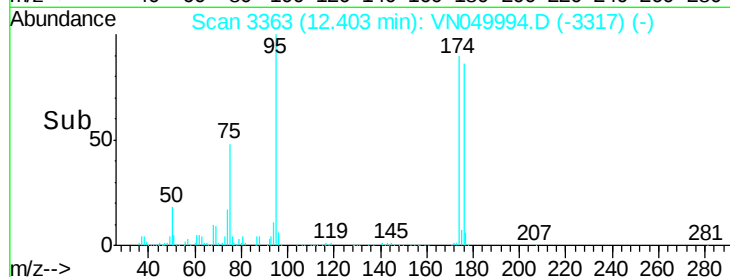
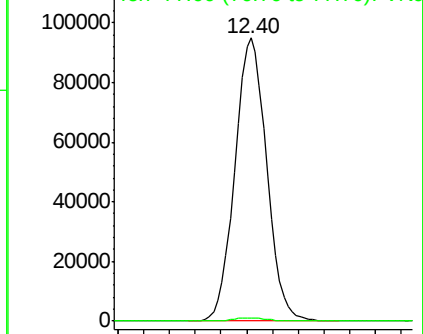
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 98.68 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049994.D

Acq: 21 Jul 2018 6:58

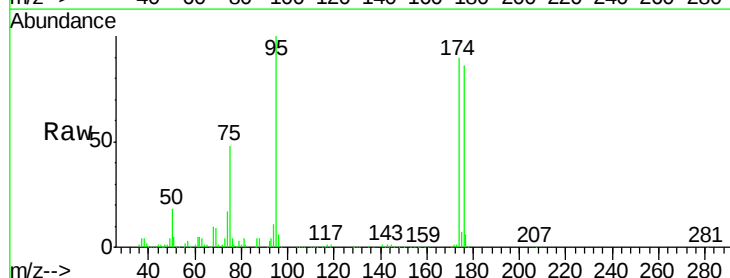
Tgt Ion: 75 Resp: 162407

Ion Ratio Lower Upper

75 100

53 0.3 73.9 110.9#

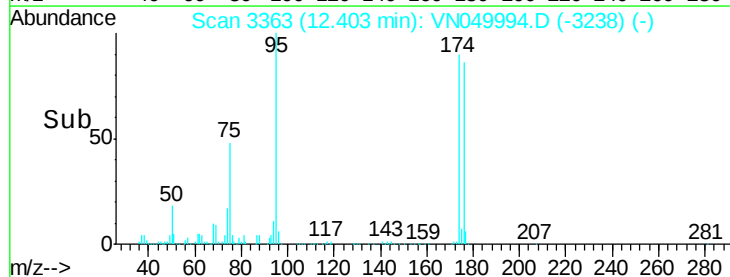
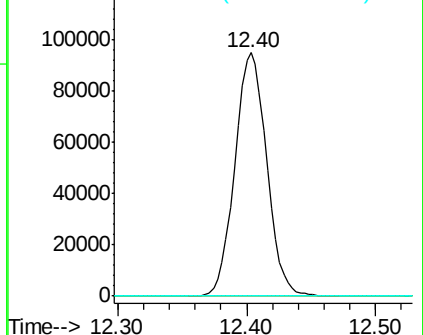
89 0.0 35.9 53.9#

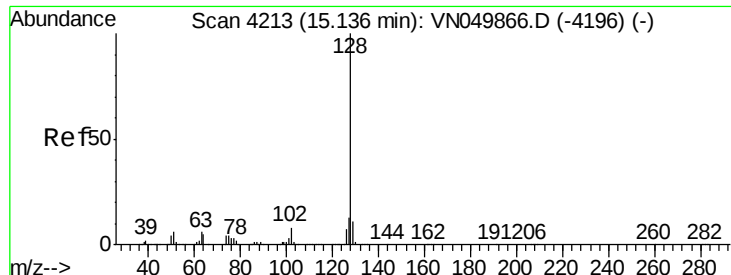


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95

Naphthalene

Concen: 5.15 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049994.D

Acq: 21 Jul 2018 6:58

Instrument :

MSVOA_N

ClientSampleId :

TP-11

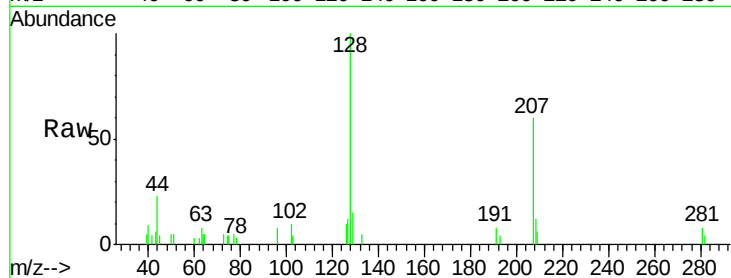
Tot Ion:128 Resp: 9435

Ion Ratio Lower Upper

128 100

127 12.6 10.4 15.6

129 11.4 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

