

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100918\
 Data File : VN051772.D
 Acq On : 10 Oct 2018 1:08
 Operator : MD\SY
 Sample : J5201-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 31 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 EO-02-100818-B

Quant Time: Oct 10 03:38:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 09 06:03:49 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	714577	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1030872	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	931013	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	367281	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	419521	44.44	ug/l	0.00
Spiked Amount			Recovery	=	88.88%	
35) Dibromofluoromethane	7.59	113	384950	48.30	ug/l	0.00
Spiked Amount			Recovery	=	96.60%	
50) Toluene-d8	10.09	98	1496081	50.32	ug/l	0.00
Spiked Amount			Recovery	=	100.64%	
62) 4-Bromofluorobenzene	12.40	95	435458	41.37	ug/l	0.00
Spiked Amount			Recovery	=	82.74%	

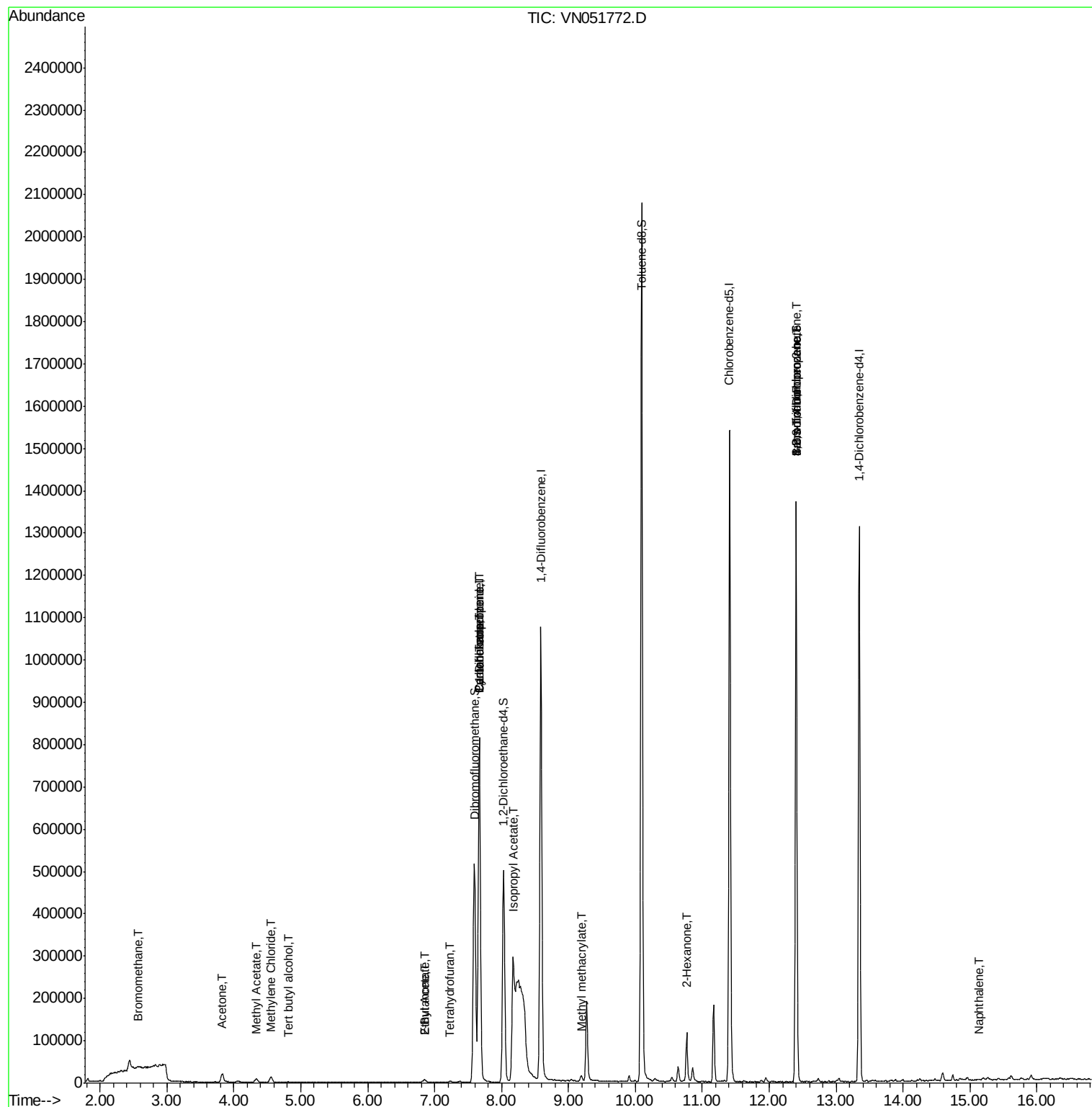
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	2408	0.244	ug/l #	52
7) Trichlorofluoromethane	2.99	101	126	Below Cal	#	18
11) Tert butyl alcohol	4.80	59	318	0.496	ug/l #	73
13) Acrolein	3.62	56	227	Below Cal	#	33
16) Acetone	3.82	43	35675	3.869	ug/l	99
18) Methyl Acetate	4.34	43	14858	2.852	ug/l	92
20) Methylene Chloride	4.55	84	9832	1.266	ug/l	91
25) 2-Butanone	6.84	43	3888	1.426	ug/l	92
29) Tetrahydrofuran	7.22	42	890	0.532	ug/l #	79
31) Cyclohexane	7.66	56	12693	0.991	ug/l #	7
36) 1,1-Dichloropropene	7.67	75	47201	4.381	ug/l #	50
37) Ethyl Acetate	6.84	43	3888	0.692	ug/l #	69
38) Carbon Tetrachloride	7.67	117	64081	4.956	ug/l #	15
41) Methacrylonitrile	7.17	41	33	Below Cal	#	1
43) Isopropyl Acetate	8.17	43	391773	33.437	ug/l #	87
48) Methyl methacrylate	9.18	41	7268	1.358	ug/l #	9
59) 2-Hexanone	10.77	43	17700	4.390	ug/l #	57
71) Bromoform	12.40	173	3505	0.510	ug/l #	1
74) N-amyl acetate	12.08	43	182	Below Cal	#	49
75) 1,1,2,2-Tetrachloroethane	12.41	83	569	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	229347	50.279	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	229347	114.785	ug/l #	14
95) Naphthalene	15.13	128	3200	0.251	ug/l #	74

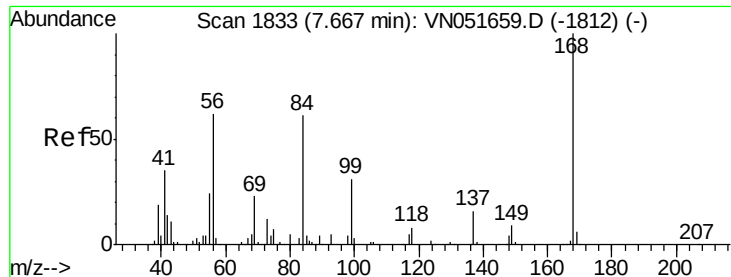
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN100918\
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Quant Time: Oct 10 03:38:04 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 09 06:03:49 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051772.D

Acq: 10 Oct 2018 1:08

Instrument :

MSVOA_N

ClientSampleId :

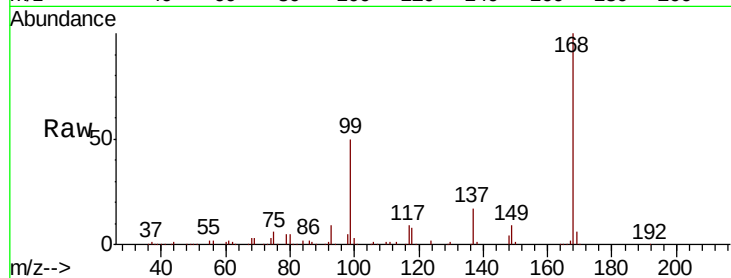
EO-02-100818-B

Tot Ion:168 Resp: 714577

Ion Ratio Lower Upper

168 100

99 49.8 40.4 60.6



Abundance Ion 167.90 (167.60 to 168.60): VN051659.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN051659.D (-1812) (-)

7.67

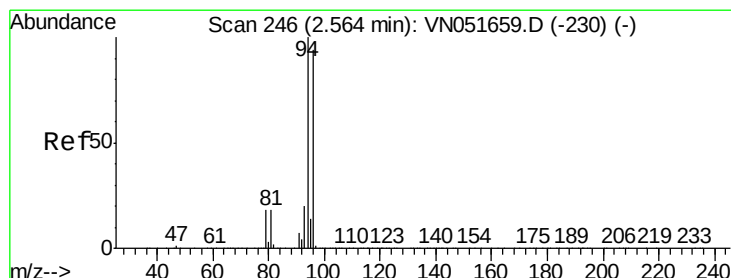
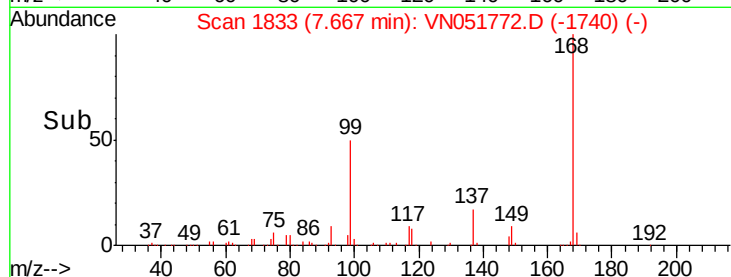
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 0.244 ug/l

RT: 2.56 min Scan# 246

Delta R.T. 0.00 min

Lab File: VN051772.D

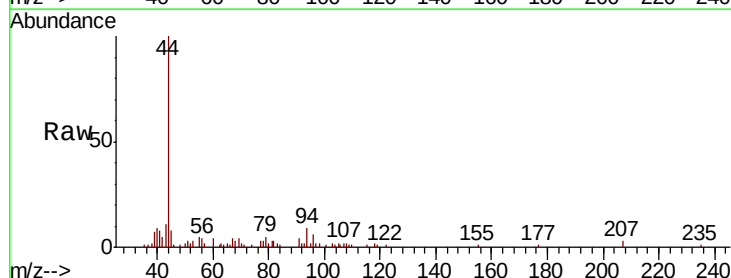
Acq: 10 Oct 2018 1:08

Tgt Ion: 94 Resp: 2408

Ion Ratio Lower Upper

94 100

96 47.8 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VN051659.D (-230) (-)

Ion 95.90 (95.60 to 96.60): VN051659.D (-230) (-)

2.56

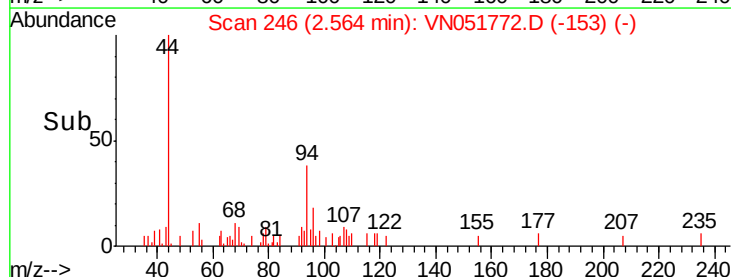
1500

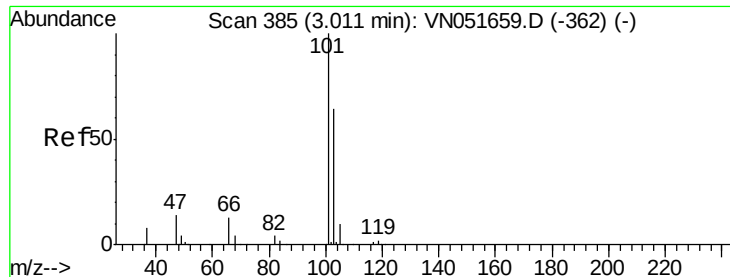
1000

500

0

Time-->





#7

Trichlorofluoromethane

Concen: Below Cal

RT: 2.99 min Scan# 379

Delta R.T. -0.02 min

Lab File: VN051772.D

Acq: 10 Oct 2018 1:08

Instrument :

MSVOA_N

ClientSampleId :

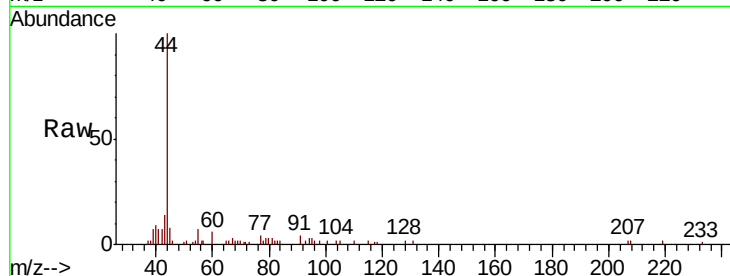
EO-02-100818-B

Tot Ion:101 Resp: 126

Ion Ratio Lower Upper

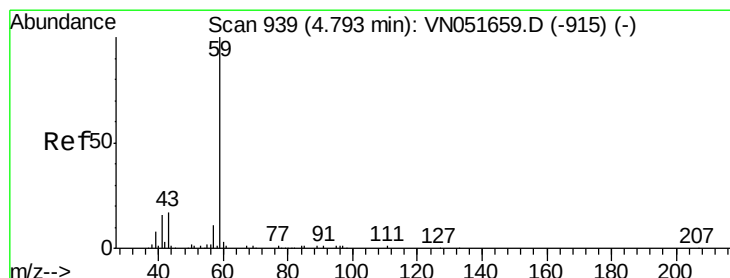
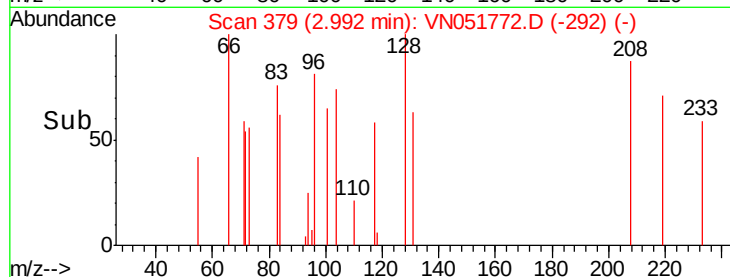
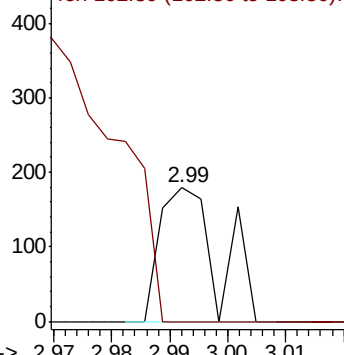
101 100

103 0.0 51.1 76.7#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#11

Tert butyl alcohol

Concen: 0.496 ug/l

RT: 4.80 min Scan# 941

Delta R.T. 0.01 min

Lab File: VN051772.D

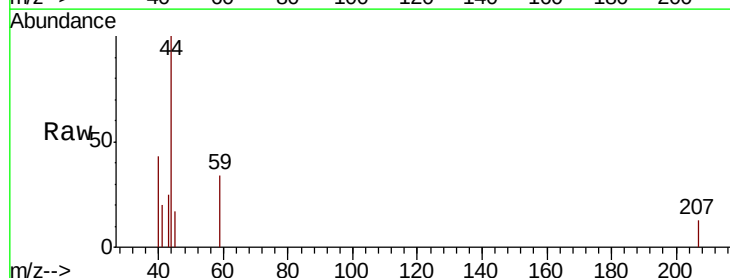
Acq: 10 Oct 2018 1:08

Tgt Ion: 59 Resp: 318

Ion Ratio Lower Upper

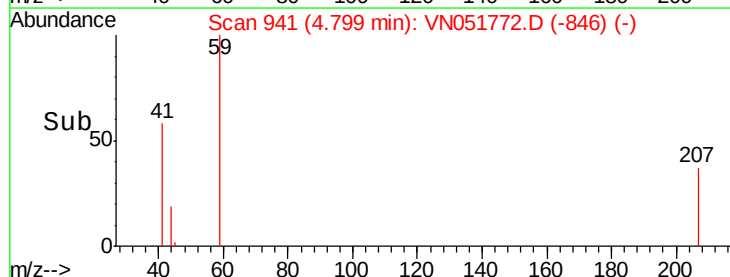
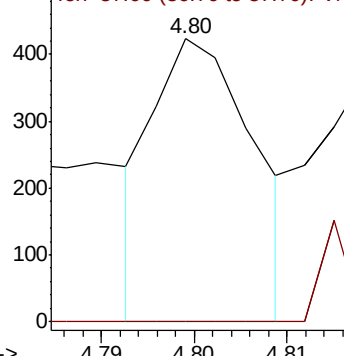
59 100

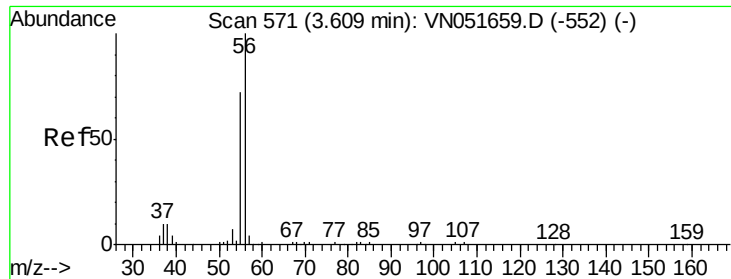
57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#13

Acrolein

Concen: Below Cal

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN051772.D

Acq: 10 Oct 2018 1:08

Instrument :

MSVOA_N

ClientSampleId :

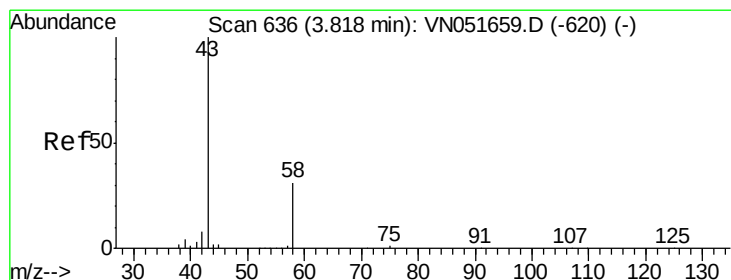
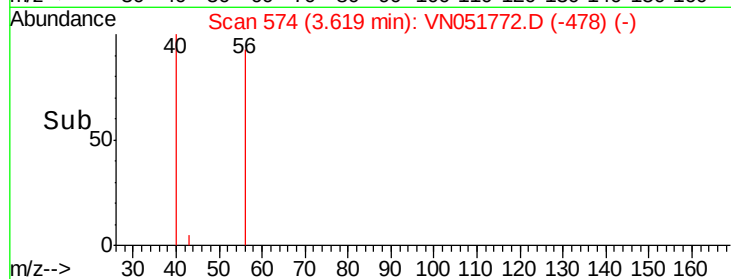
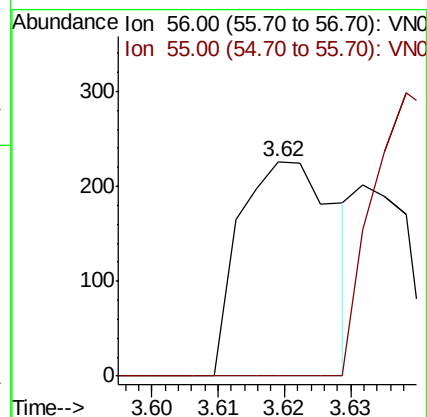
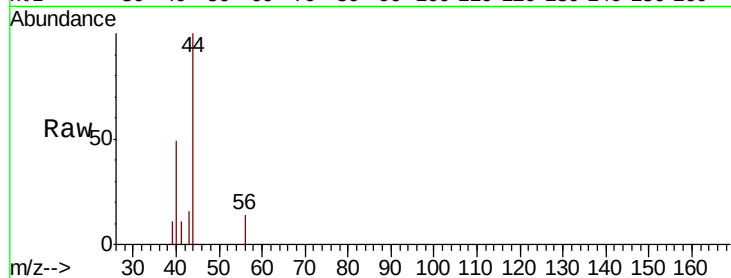
EO-02-100818-B

Tot Ion: 56 Resp: 227

Ion Ratio Lower Upper

56 100

55 127.8 57.5 86.3#



#16

Acetone

Concen: 3.869 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN051772.D

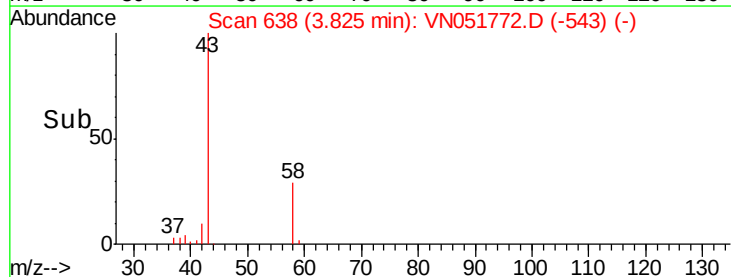
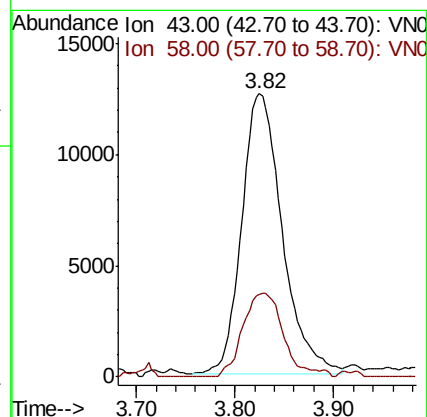
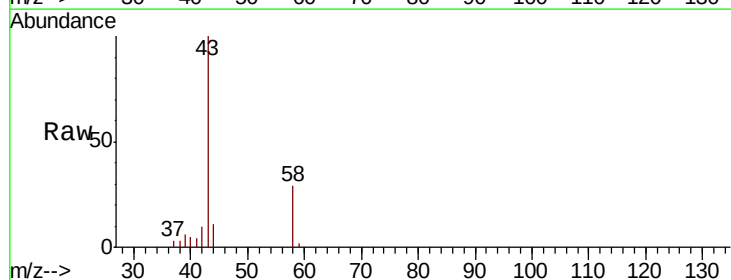
Acq: 10 Oct 2018 1:08

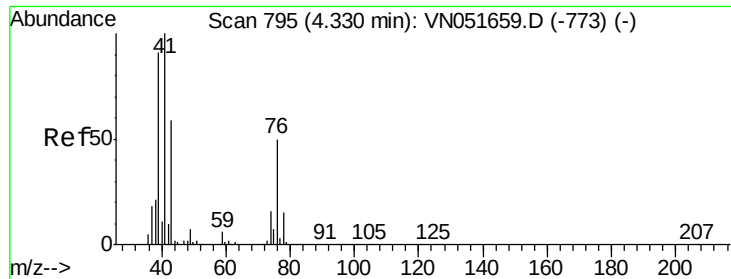
Tgt Ion: 43 Resp: 35675

Ion Ratio Lower Upper

43 100

58 29.6 24.3 36.5

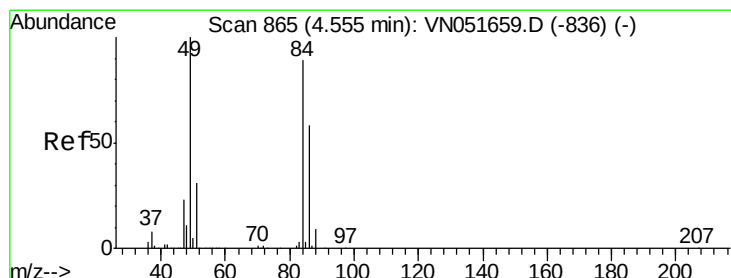
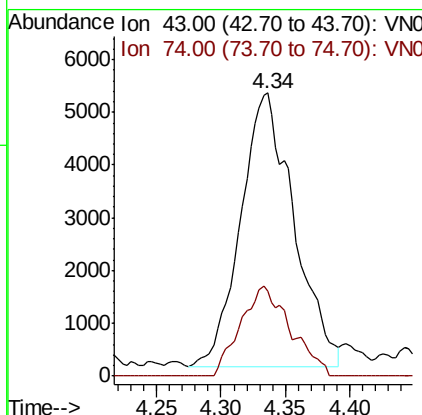
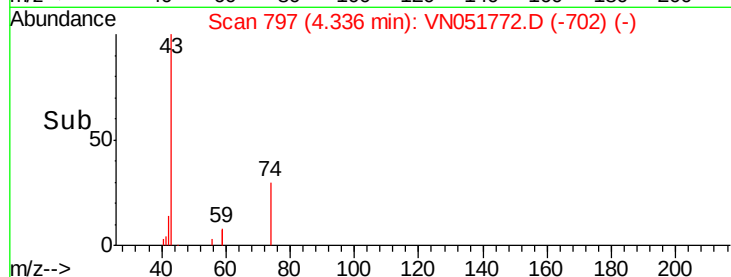
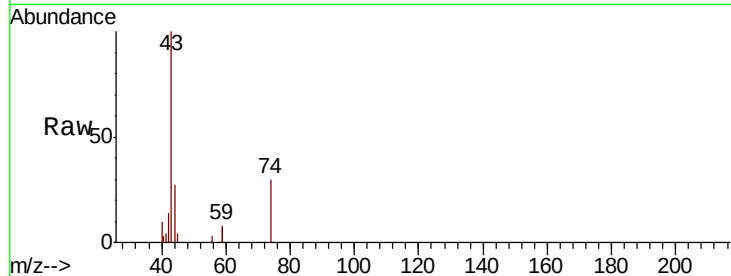




#18
Methyl Acetate
Concen: 2.852 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN051772.D
Acq: 10 Oct 2018 1:08

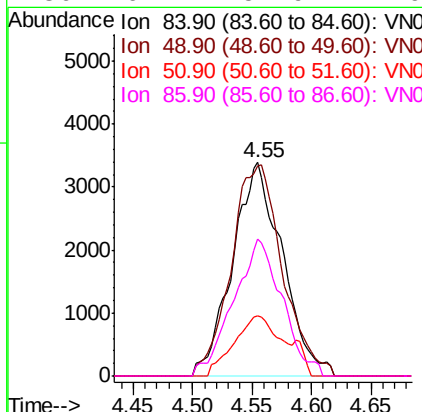
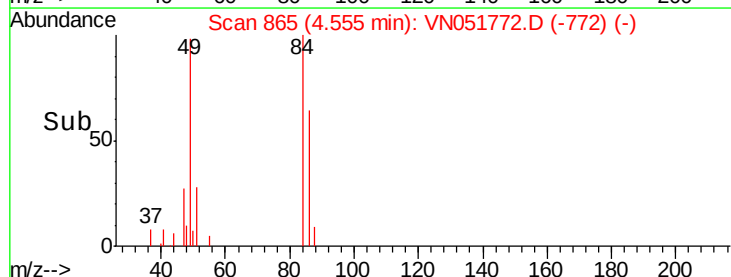
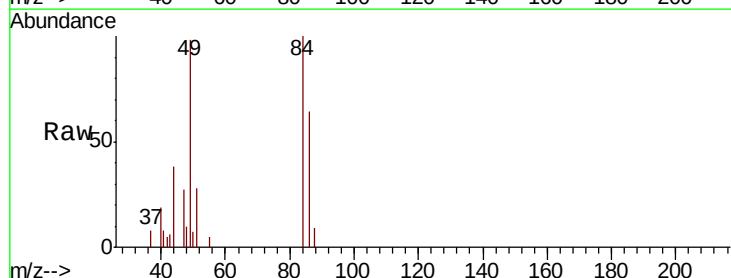
Instrument :
MSVOA_N
ClientSampleId :
EO-02-100818-B

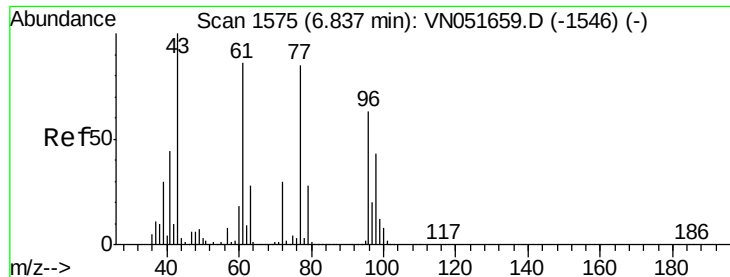
Tot Ion: 43 Resp: 14858
Ion Ratio Lower Upper
43 100
74 30.9 21.5 32.3



#20
Methylene Chloride
Concen: 1.266 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051772.D
Acq: 10 Oct 2018 1:08

Tgt Ion: 84 Resp: 9832
Ion Ratio Lower Upper
84 100
49 98.1 89.5 134.3
51 28.0 27.4 41.0
86 64.2 51.9 77.9





#25

2-Butanone

Concen: 1.426 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VN051772.D

Acq: 10 Oct 2018 1:08

Instrument :

MSVOA_N

ClientSampleId :

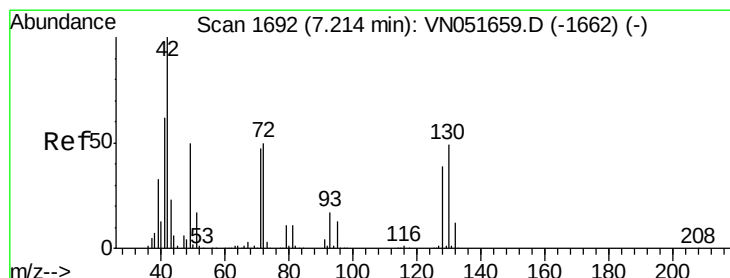
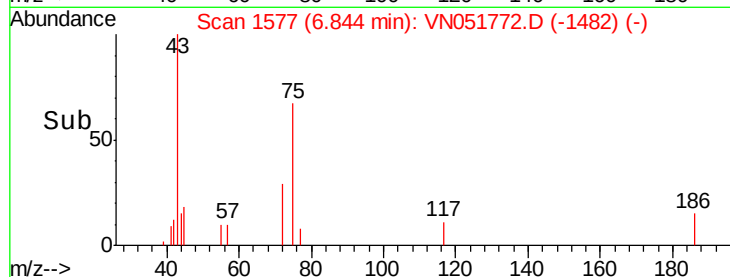
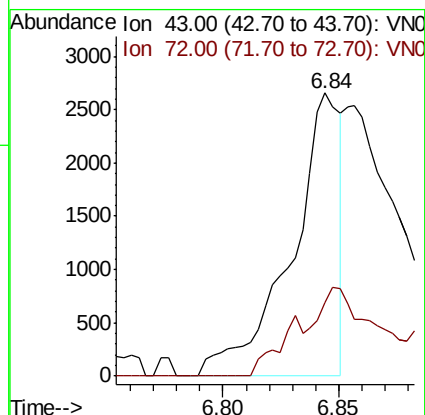
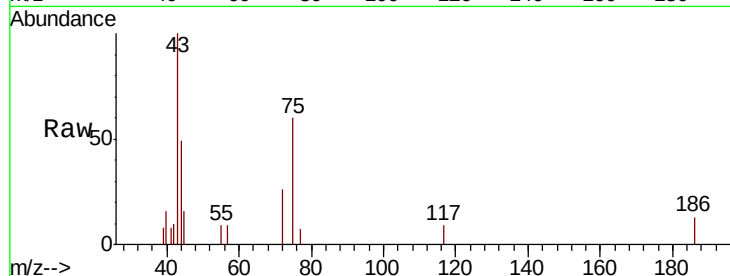
EO-02-100818-B

Tot Ion: 43 Resp: 3888

Ion Ratio Lower Upper

43 100

72 25.8 24.2 36.2



#29

Tetrahydrofuran

Concen: 0.532 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.00 min

Lab File: VN051772.D

Acq: 10 Oct 2018 1:08

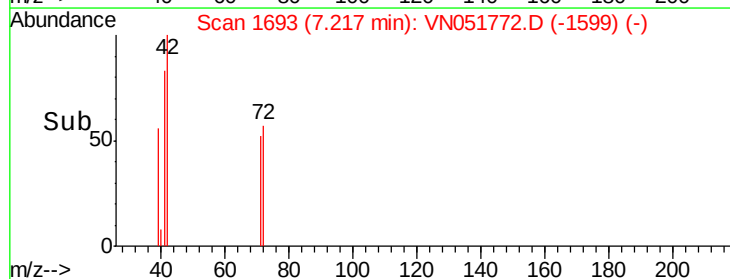
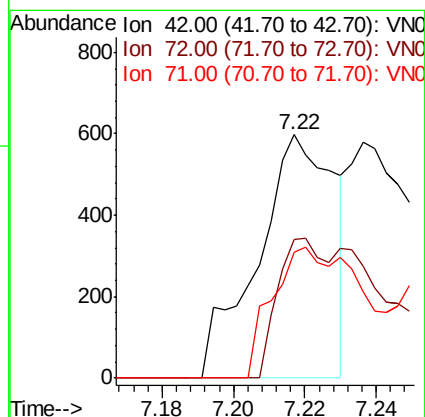
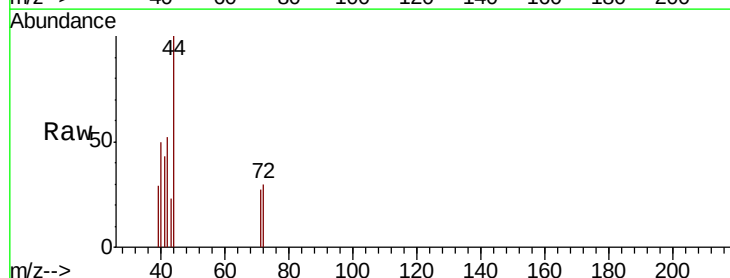
Tgt Ion: 42 Resp: 890

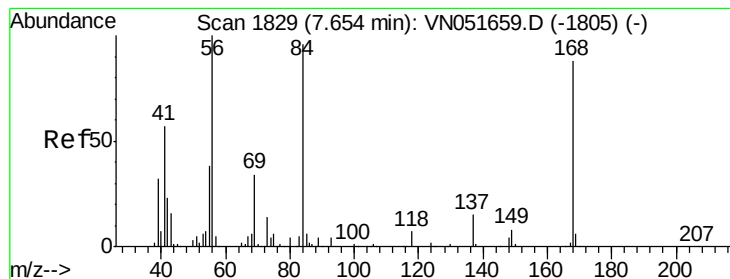
Ion Ratio Lower Upper

42 100

72 36.5 40.1 60.1#

71 62.7 38.0 57.0#





#31

Cyclohexane

Concen: 0.991 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN051772.D

Acq: 10 Oct 2018 1:08

Instrument :

MSVOA_N

ClientSampleId :

EO-02-100818-B

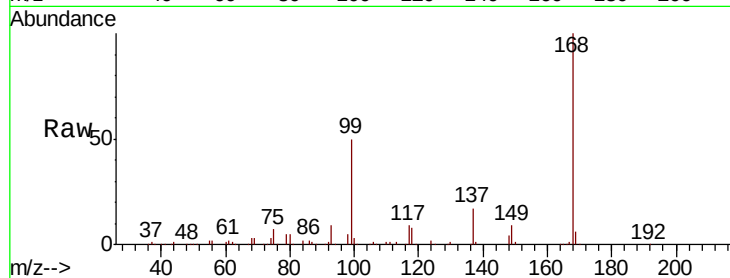
Tot Ion: 56 Resp: 12693

Ion Ratio Lower Upper

56 100

69 190.3 27.5 41.3#

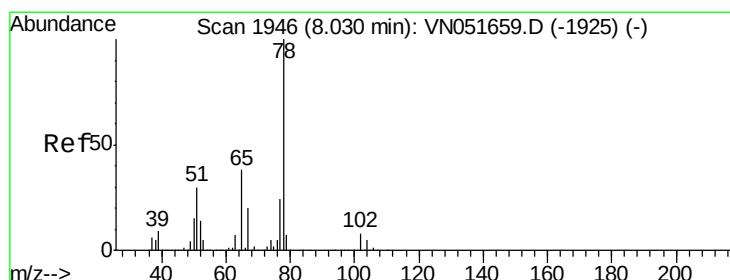
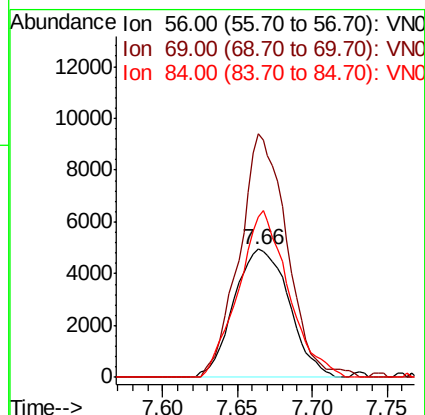
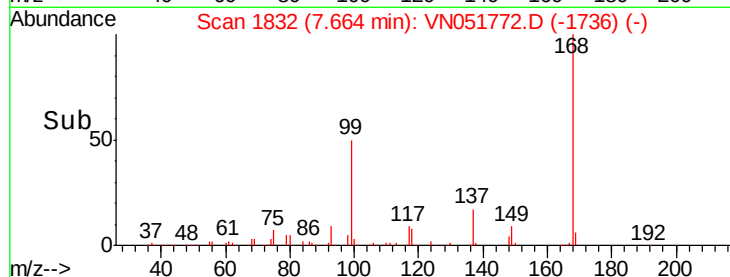
84 125.0 76.7 115.1#



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: N.D. ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051772.D

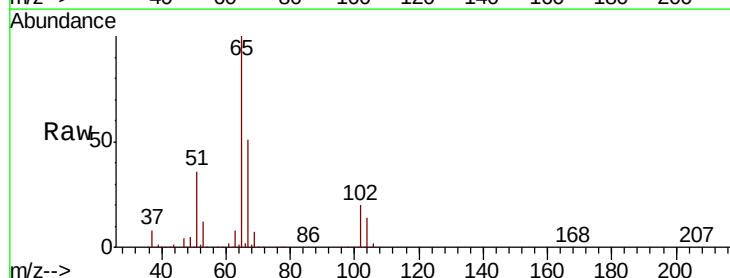
Acq: 10 Oct 2018 1:08

Tgt Ion: 65 Resp: 419521

Ion Ratio Lower Upper

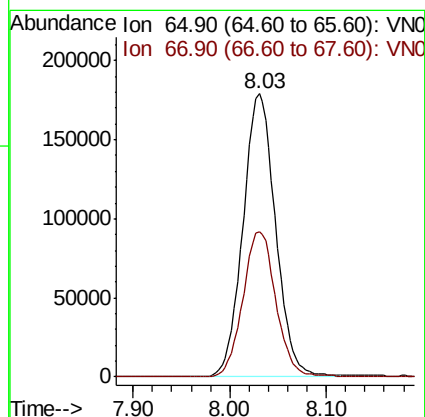
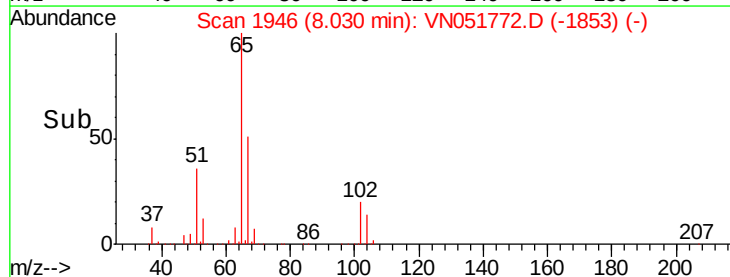
65 100

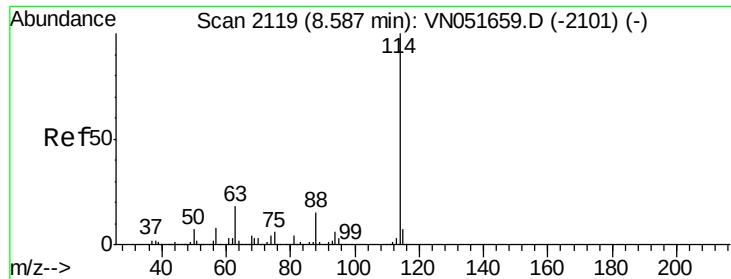
67 52.1 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN051772.D

Acq: 10 Oct 2018 1:08

Instrument :

MSVOA_N

ClientSampleId :

EO-02-100818-B

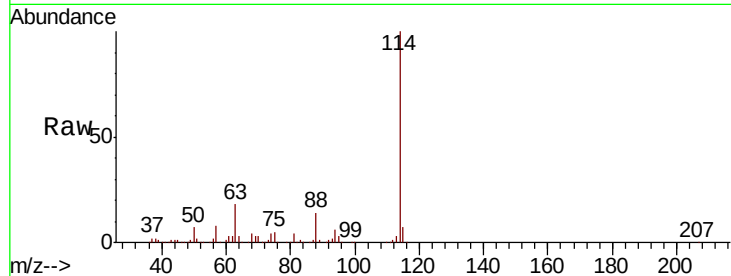
Tot Ion:114 Resp: 1030872

Ion Ratio Lower Upper

114 100

63 18.0 0.0 36.2

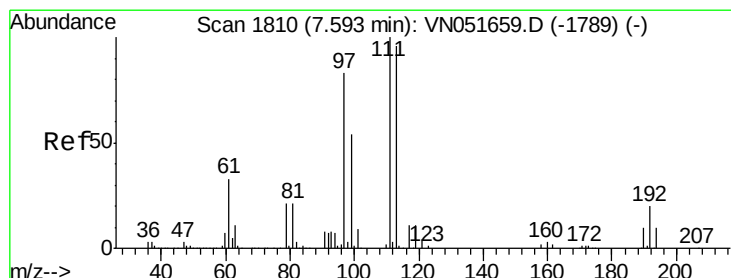
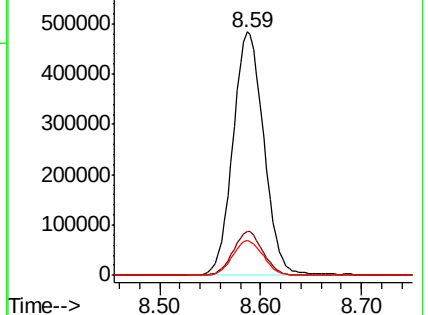
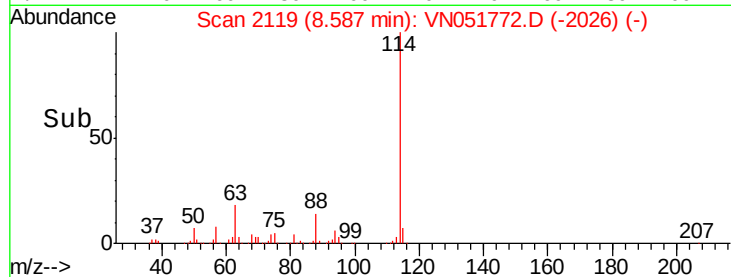
88 14.2 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN051772.D

Acq: 10 Oct 2018 1:08

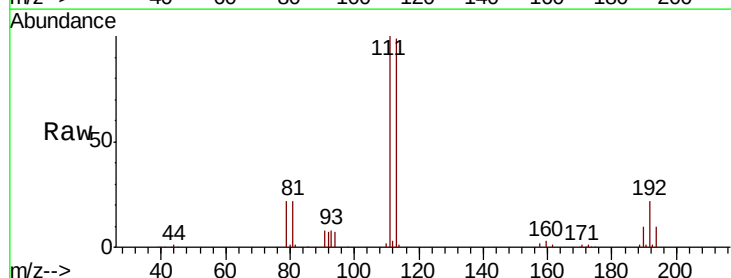
Tgt Ion:113 Resp: 384950

Ion Ratio Lower Upper

113 100

111 102.2 81.8 122.8

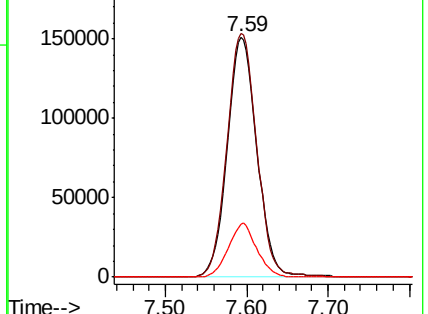
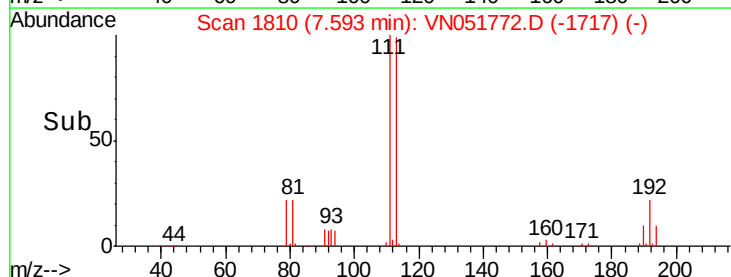
192 21.6 16.5 24.7

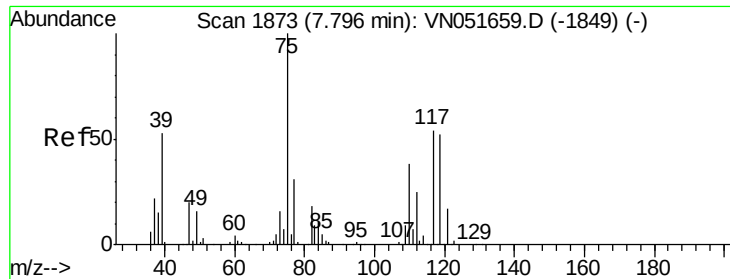


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

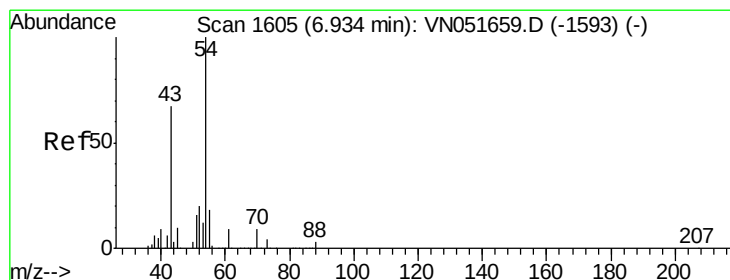
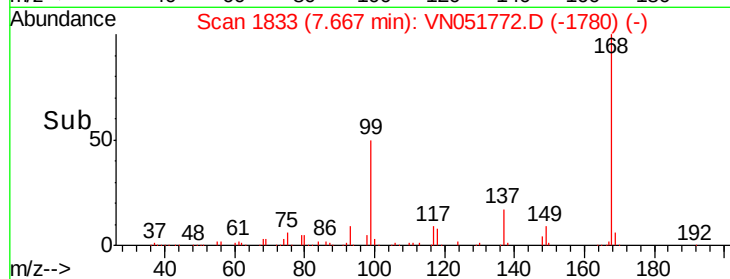
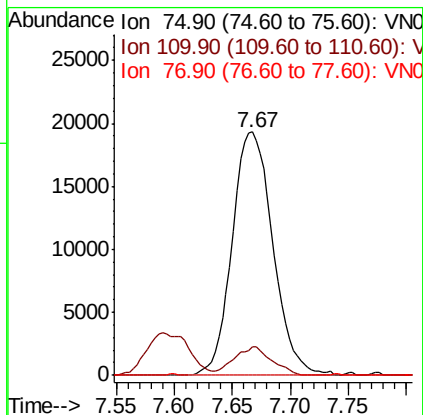
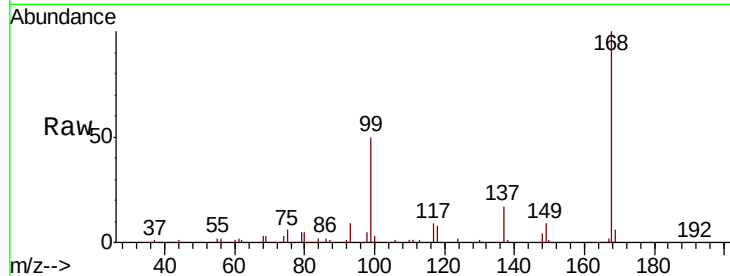




#36
 1,1-Dichloropropene
 Concen: 4.381 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051772.D
 Acq: 10 Oct 2018 1:08

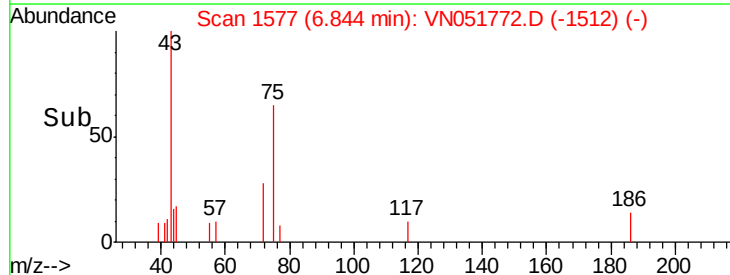
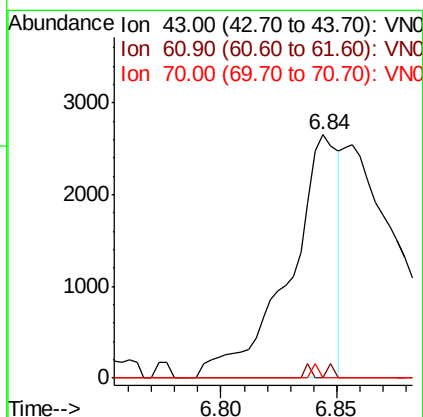
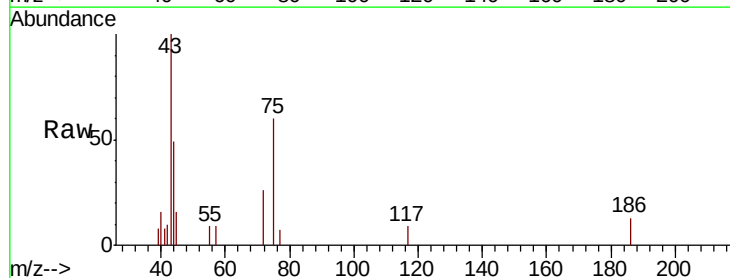
Instrument :
 MSVOA_N
 ClientSampleId :
 EO-02-100818-B

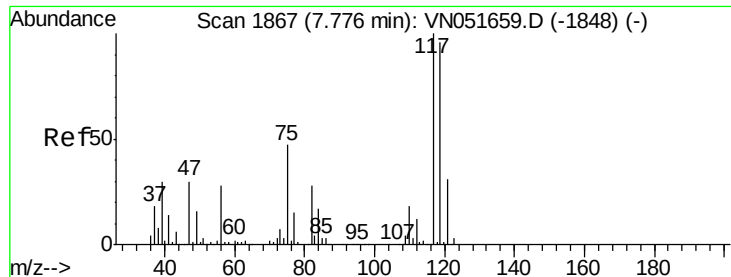
Tot Ion: 75 Resp: 47201
 Ion Ratio Lower Upper
 75 100
 110 10.8 19.3 57.8#
 77 0.0 24.7 37.1#



#37
 Ethyl Acetate
 Concen: 0.692 ug/l
 RT: 6.84 min Scan# 1577
 Delta R.T. -0.09 min
 Lab File: VN051772.D
 Acq: 10 Oct 2018 1:08

Tgt Ion: 43 Resp: 3888
 Ion Ratio Lower Upper
 43 100
 61 0.8 11.8 17.6#
 70 0.8 8.7 13.1#





#38

Carbon Tetrachloride

Concen: 4.956 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051772.D

Acq: 10 Oct 2018 1:08

Instrument :

MSVOA_N

ClientSampleId :

EO-02-100818-B

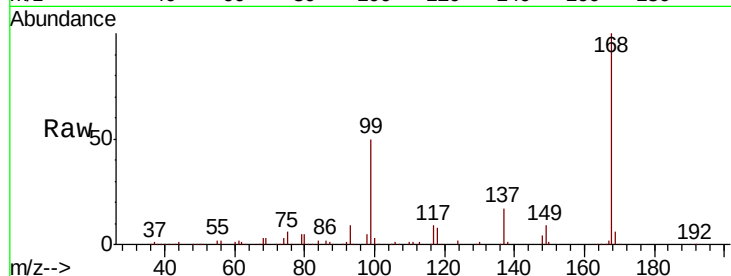
Tot Ion:117 Resp: 64081

Ion Ratio Lower Upper

117 100

119 4.1 77.0 115.6#

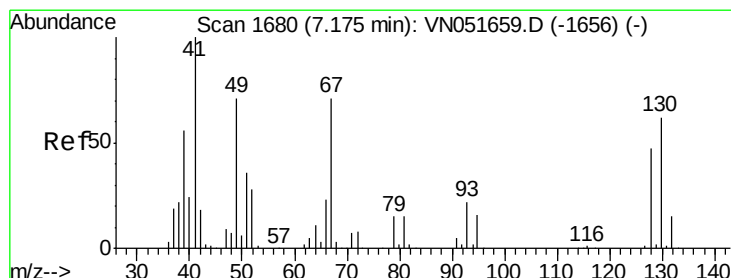
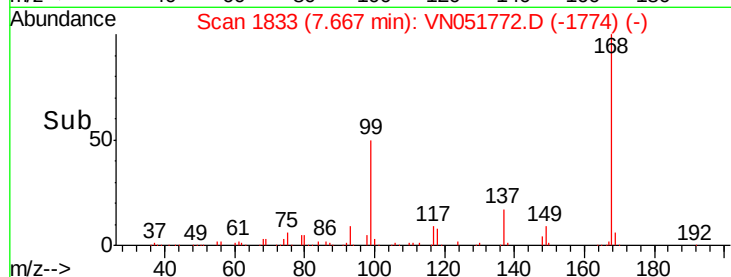
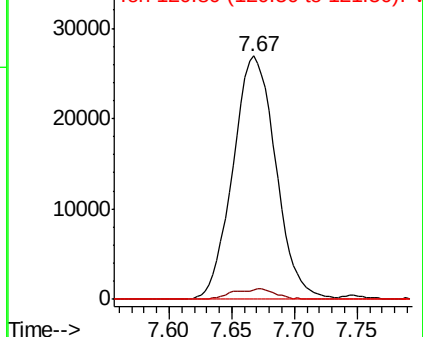
121 0.0 25.0 37.6#



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



#41

Methacrylonitrile

Concen: Below Cal

RT: 7.17 min Scan# 1677

Delta R.T. -0.01 min

Lab File: VN051772.D

Acq: 10 Oct 2018 1:08

Tgt Ion: 41 Resp: 33

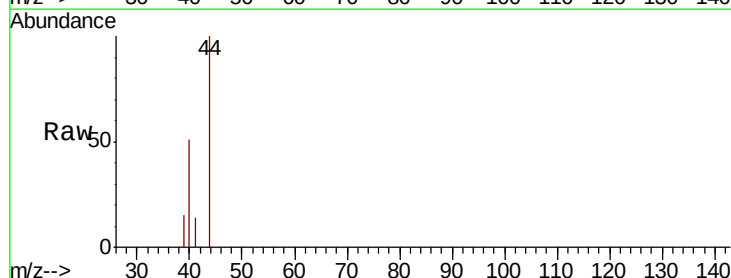
Ion Ratio Lower Upper

41 100

39 315.2 53.9 80.9#

67 0.0 78.1 117.1#

52 0.0 32.3 48.5#

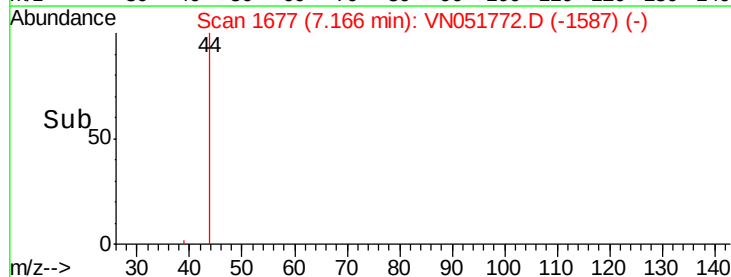
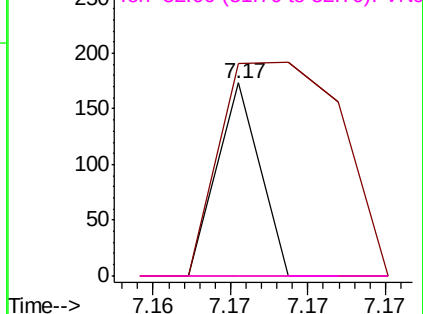


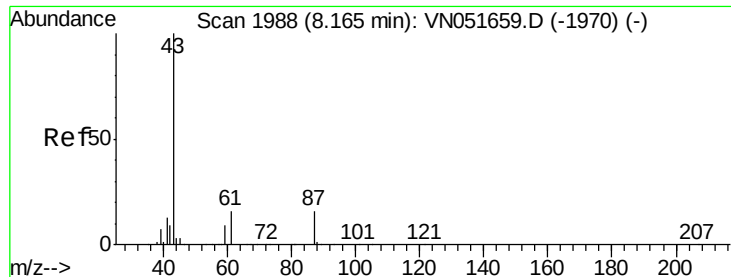
Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 33.437 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051772.D

Acq: 10 Oct 2018 1:08

Instrument :

MSVOA_N

ClientSampleId :

EO-02-100818-B

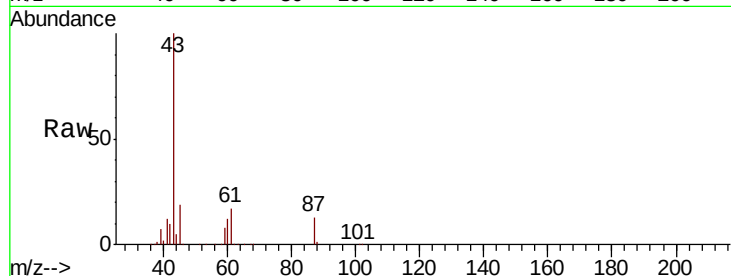
Tot Ion: 43 Resp: 391773

Ion Ratio Lower Upper

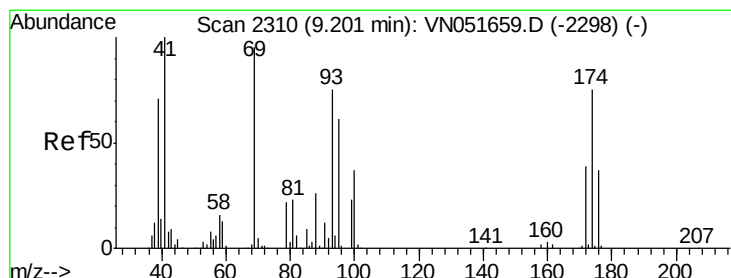
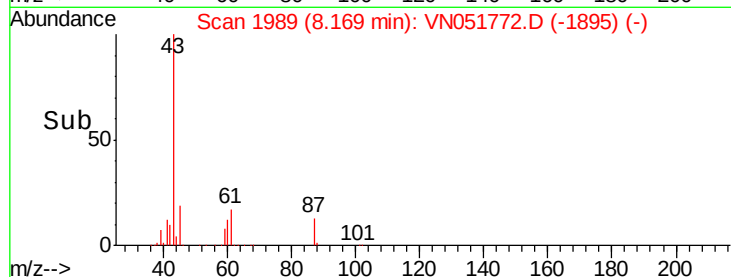
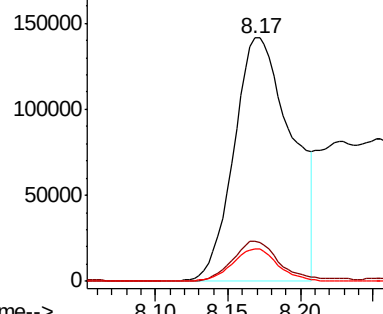
43 100

61 13.9 15.8 23.6#

87 10.5 12.6 19.0#



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



#48

Methyl methacrylate

Concen: 1.358 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051772.D

Acq: 10 Oct 2018 1:08

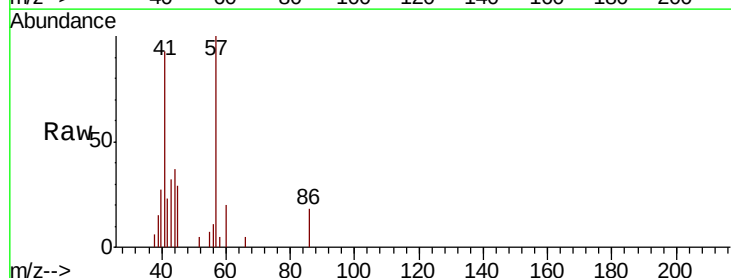
Tgt Ion: 41 Resp: 7268

Ion Ratio Lower Upper

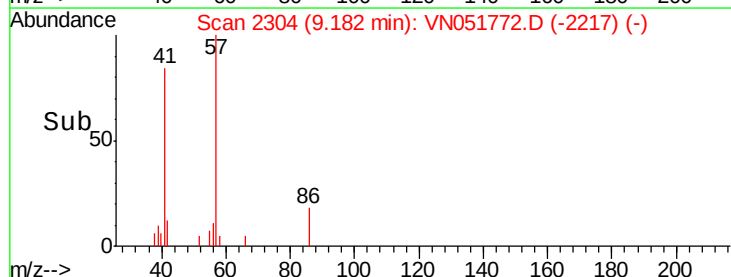
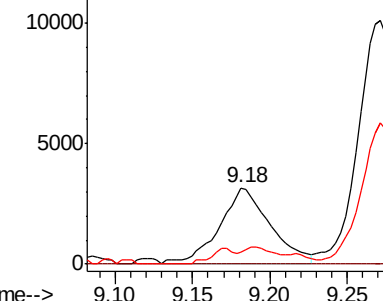
41 100

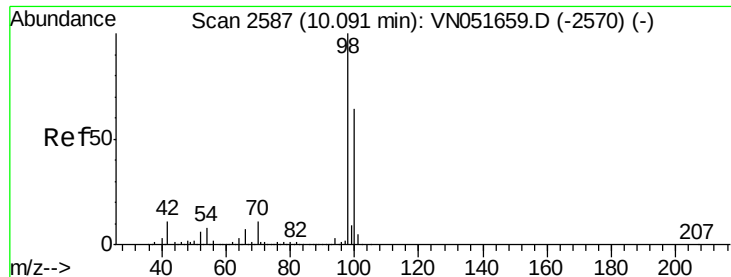
69 0.0 78.6 118.0#

39 7.1 59.2 88.8#



Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

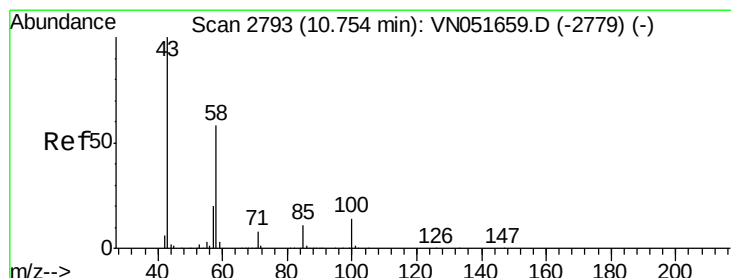
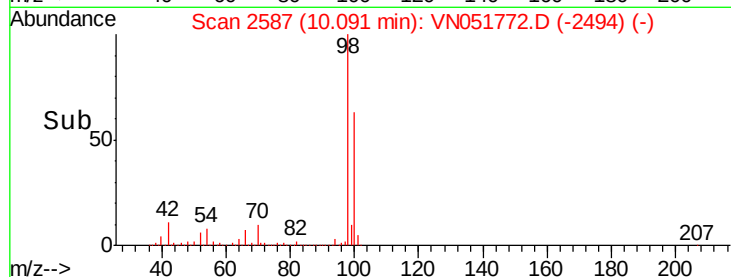
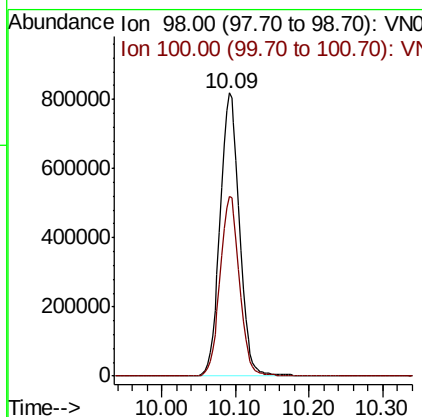
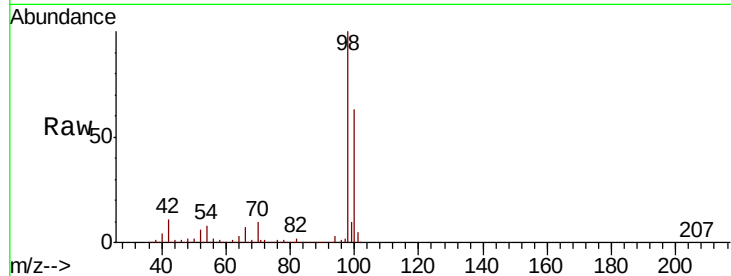




#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051772.D
Acq: 10 Oct 2018 1:08

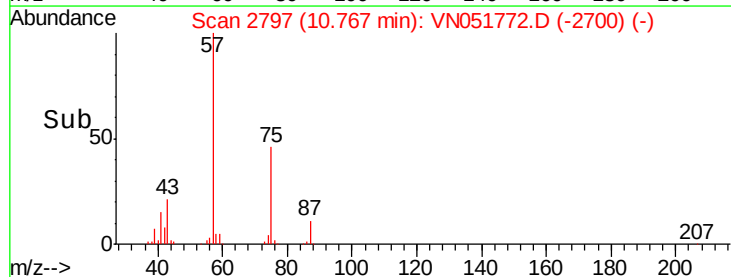
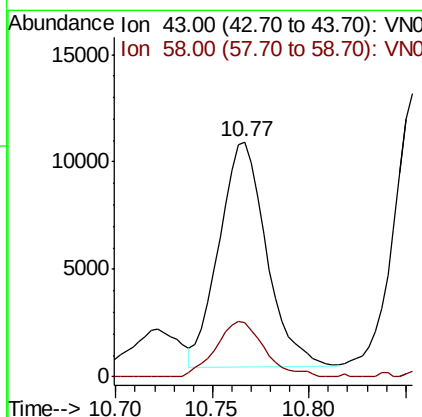
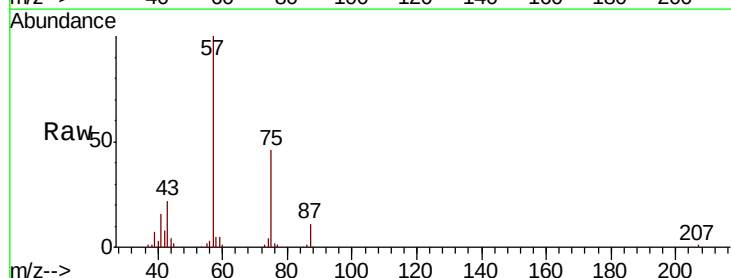
Instrument :
MSVOA_N
ClientSampled :
EO-02-100818-B

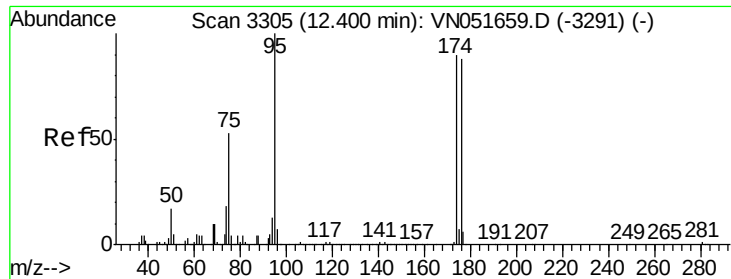
Tot Ion: 98 Resp: 1496081
Ion Ratio Lower Upper
98 100
100 63.4 51.5 77.3



#59
2-Hexanone
Concen: 4.390 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051772.D
Acq: 10 Oct 2018 1:08

Tgt Ion: 43 Resp: 17700
Ion Ratio Lower Upper
43 100
58 25.6 28.8 86.4#

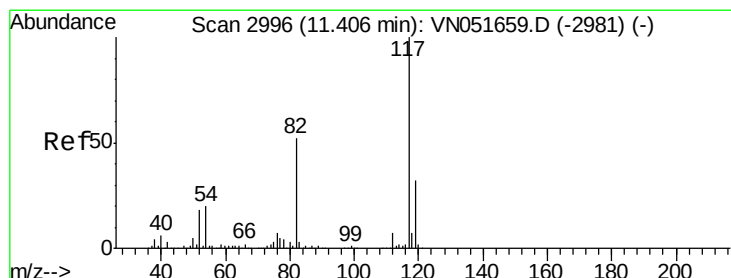
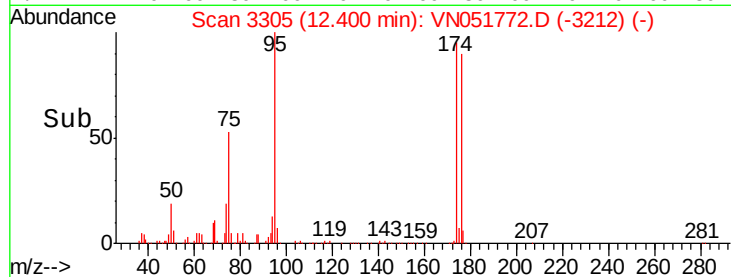
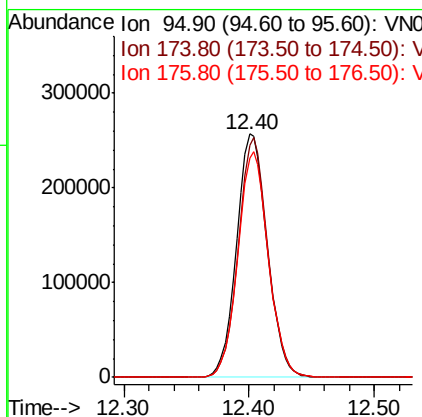
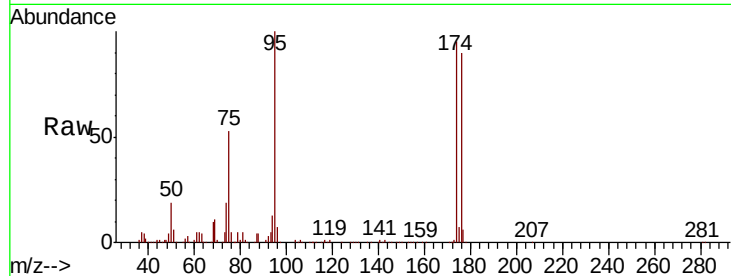




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN051772.D
Acq: 10 Oct 2018 1:08

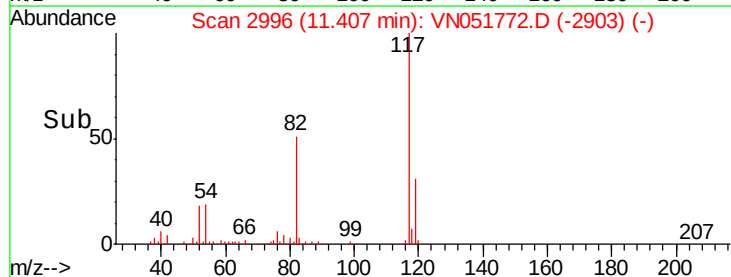
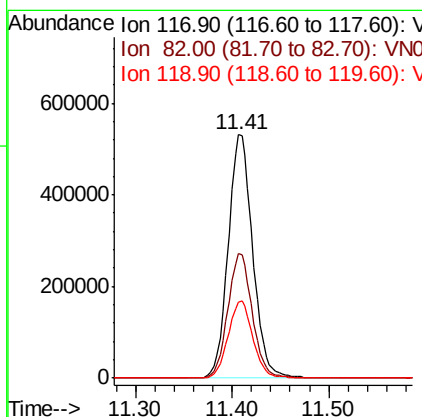
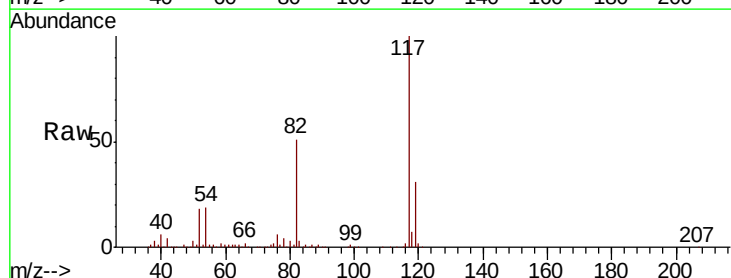
Instrument :
MSVOA_N
ClientSampled :
EO-02-100818-B

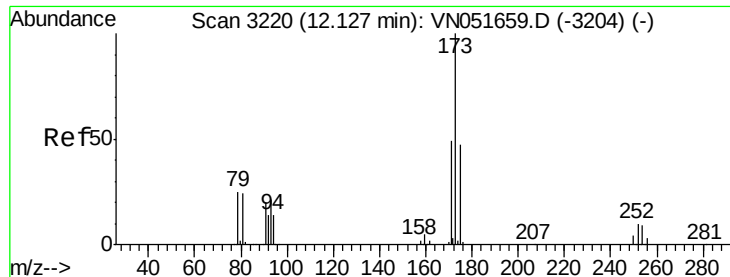
Tot Ion: 95 Resp: 435458
Ion Ratio Lower Upper
95 100
174 95.4 0.0 182.8
176 92.0 0.0 176.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051772.D
Acq: 10 Oct 2018 1:08

Tgt Ion: 117 Resp: 931013
Ion Ratio Lower Upper
117 100
82 50.9 41.3 61.9
119 31.4 25.9 38.9





#71

Bromoform

Concen: 0.510 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN051772.D

Acq: 10 Oct 2018 1:08

Instrument :

MSVOA_N

ClientSampleId :

EO-02-100818-B

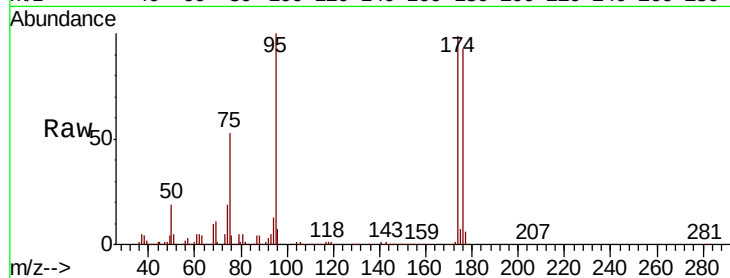
Tot Ion:173 Resp: 3505

Ion Ratio Lower Upper

173 100

175 730.8 24.0 72.0#

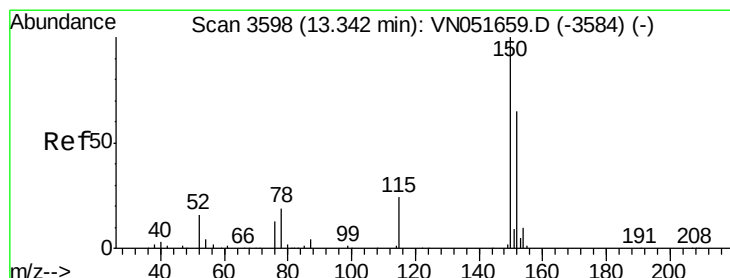
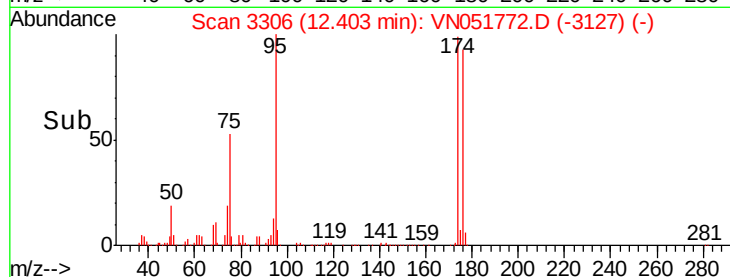
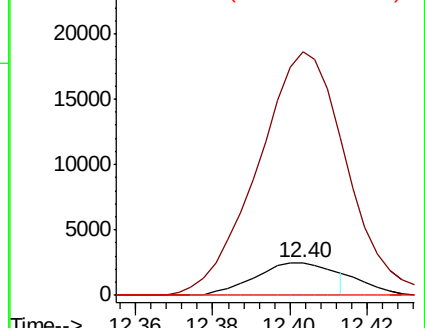
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051772.D

Acq: 10 Oct 2018 1:08

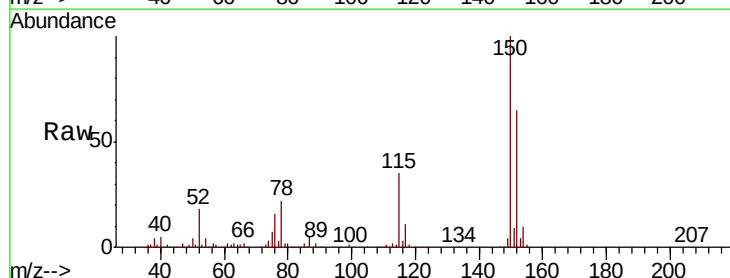
Tgt Ion:152 Resp: 367281

Ion Ratio Lower Upper

152 100

115 55.5 28.6 85.8

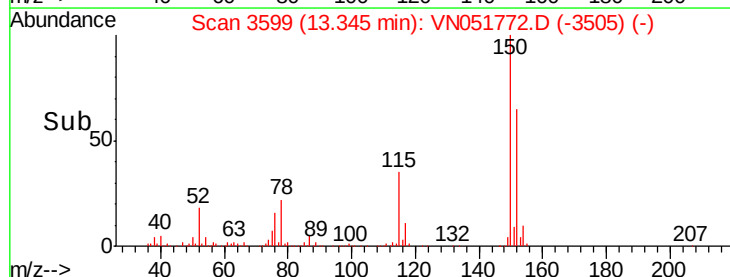
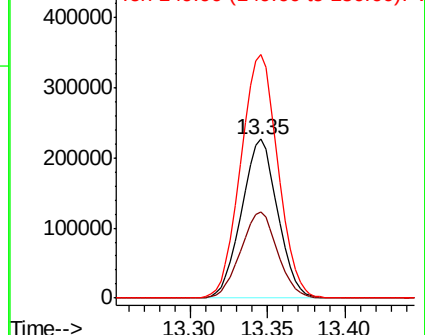
150 158.2 0.0 352.4

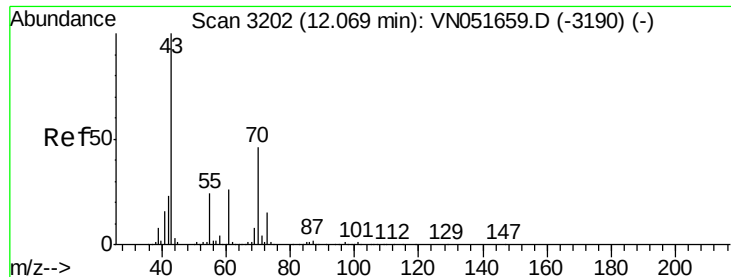


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: Below Cal

RT: 12.08 min Scan# 3205

Delta R.T. 0.01 min

Lab File: VN051772.D

Acq: 10 Oct 2018 1:08

Instrument :

MSVOA_N

ClientSampleId :

EO-02-100818-B

Tot Ion: 43 Resp: 182

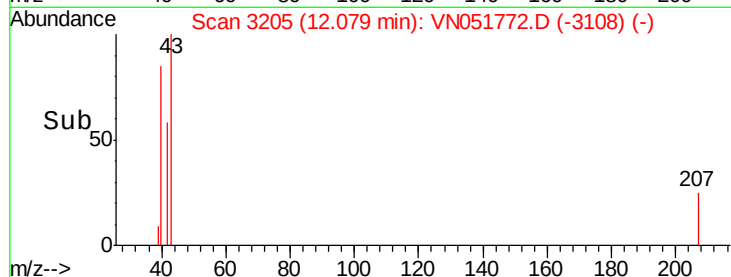
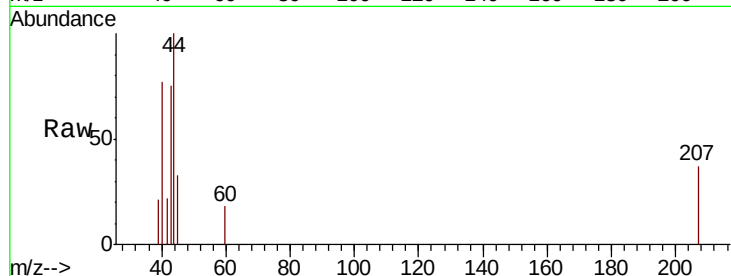
Ion Ratio Lower Upper

43 100

70 0.0 37.1 55.7#

55 17.0 19.1 28.7#

61 0.0 20.8 31.2#

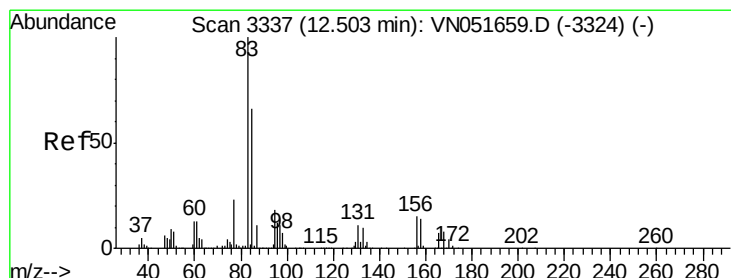
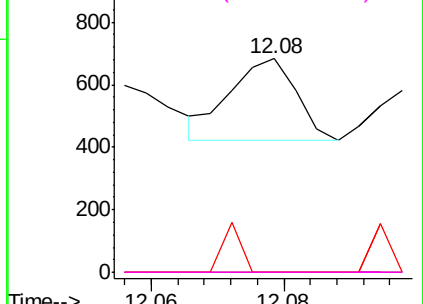


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3308

Delta R.T. -0.09 min

Lab File: VN051772.D

Acq: 10 Oct 2018 1:08

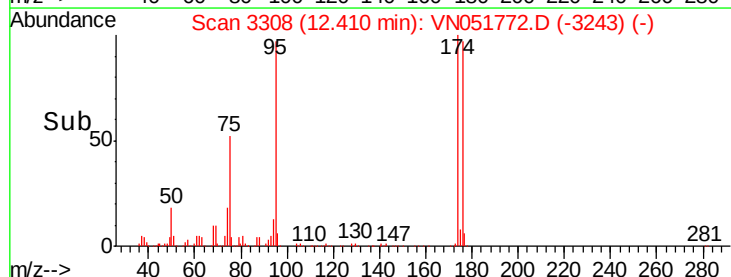
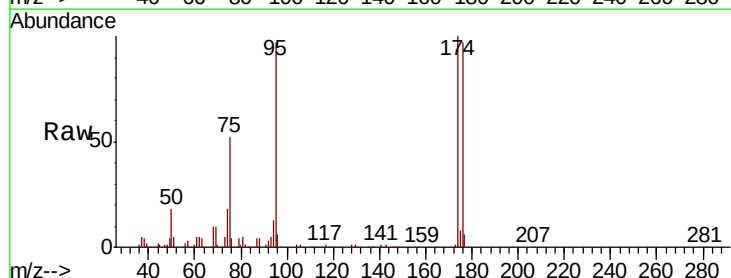
Tgt Ion: 83 Resp: 569

Ion Ratio Lower Upper

83 100

131 133.6 5.7 17.1#

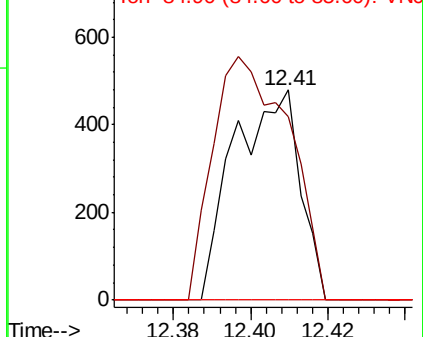
85 0.0 33.0 98.9#

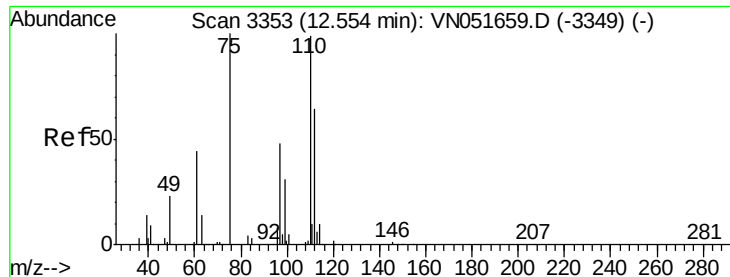


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VNO





#76

1,2,3-Trichloropropane

Concen: 50.279 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051772.D

Acq: 10 Oct 2018 1:08

Instrument :

MSVOA_N

ClientSampleId :

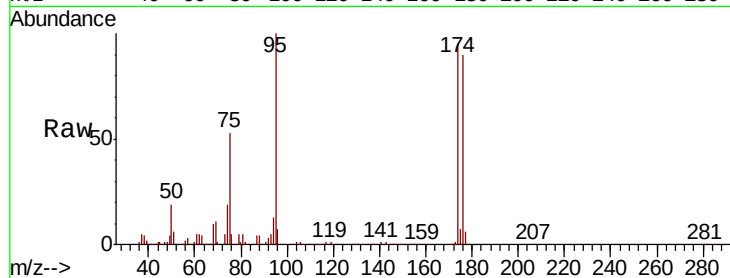
EO-02-100818-B

Tot Ion: 75 Resp: 229347

Ion Ratio Lower Upper

75 100

77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

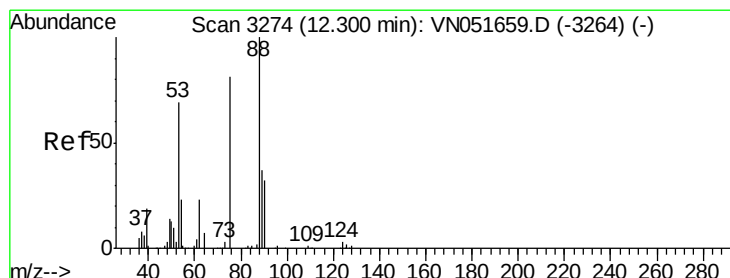
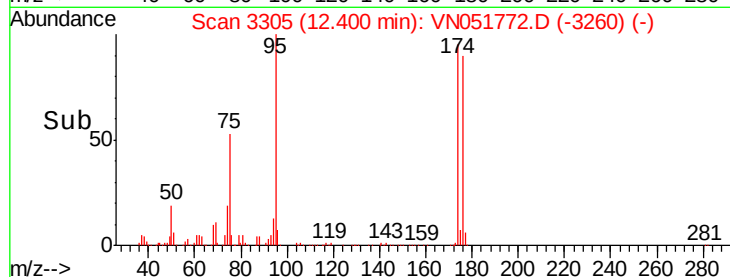
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 114.785 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051772.D

Acq: 10 Oct 2018 1:08

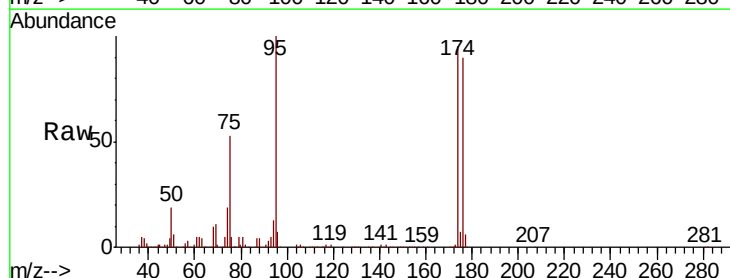
Tgt Ion: 75 Resp: 229347

Ion Ratio Lower Upper

75 100

53 0.0 68.6 102.8#

89 0.0 39.4 59.2#



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

12.40

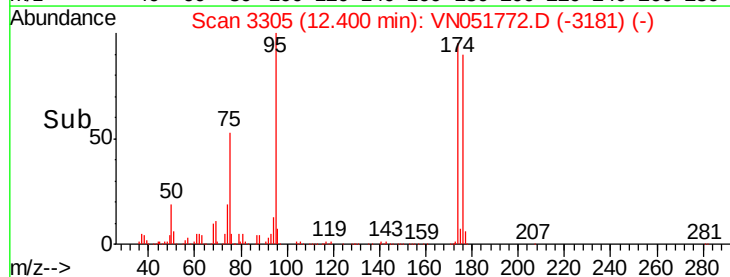
150000

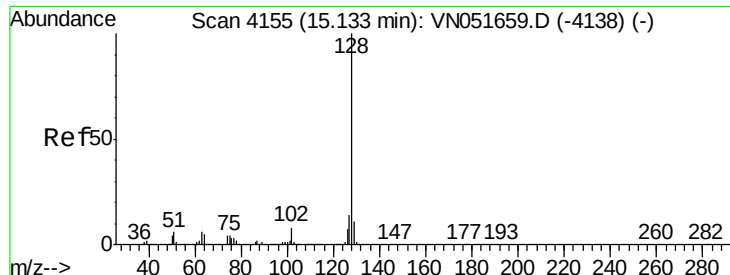
100000

50000

0

Time--> 12.30 12.40 12.50





#95

Naphthalene

Concen: 0.251 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN051772.D

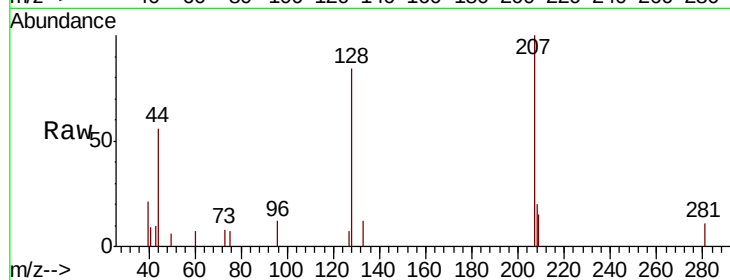
Acq: 10 Oct 2018 1:08

Instrument :

MSVOA_N

ClientSampleId :

EO-02-100818-B



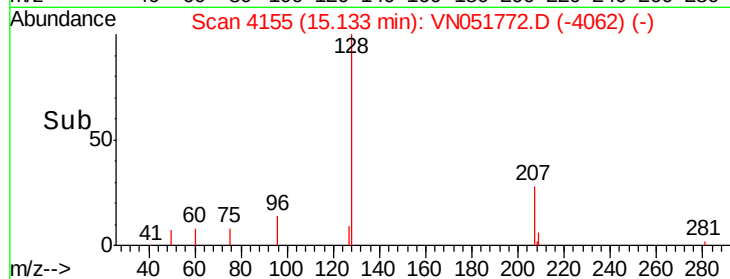
Tot Ion:128 Resp: 3200

Ion Ratio Lower Upper

128 100

127 2.0 10.6 15.8#

129 2.1 9.0 13.6#



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

