

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122418\
 Data File : VN053194.D
 Acq On : 24 Dec 2018 19:13
 Operator : MD\SY
 Sample : J6511-19
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 SB-64(0-5)-GRAB

Quant Time: Dec 24 22:32:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1264565	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1977764	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1732469	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	647195	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	641144	49.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.92%	
35) Dibromofluoromethane	7.59	113	548072	60.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	121.32%	
50) Toluene-d8	10.09	98	2404830	49.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.16%	
62) 4-Bromofluorobenzene	12.40	95	754112	44.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.58%	

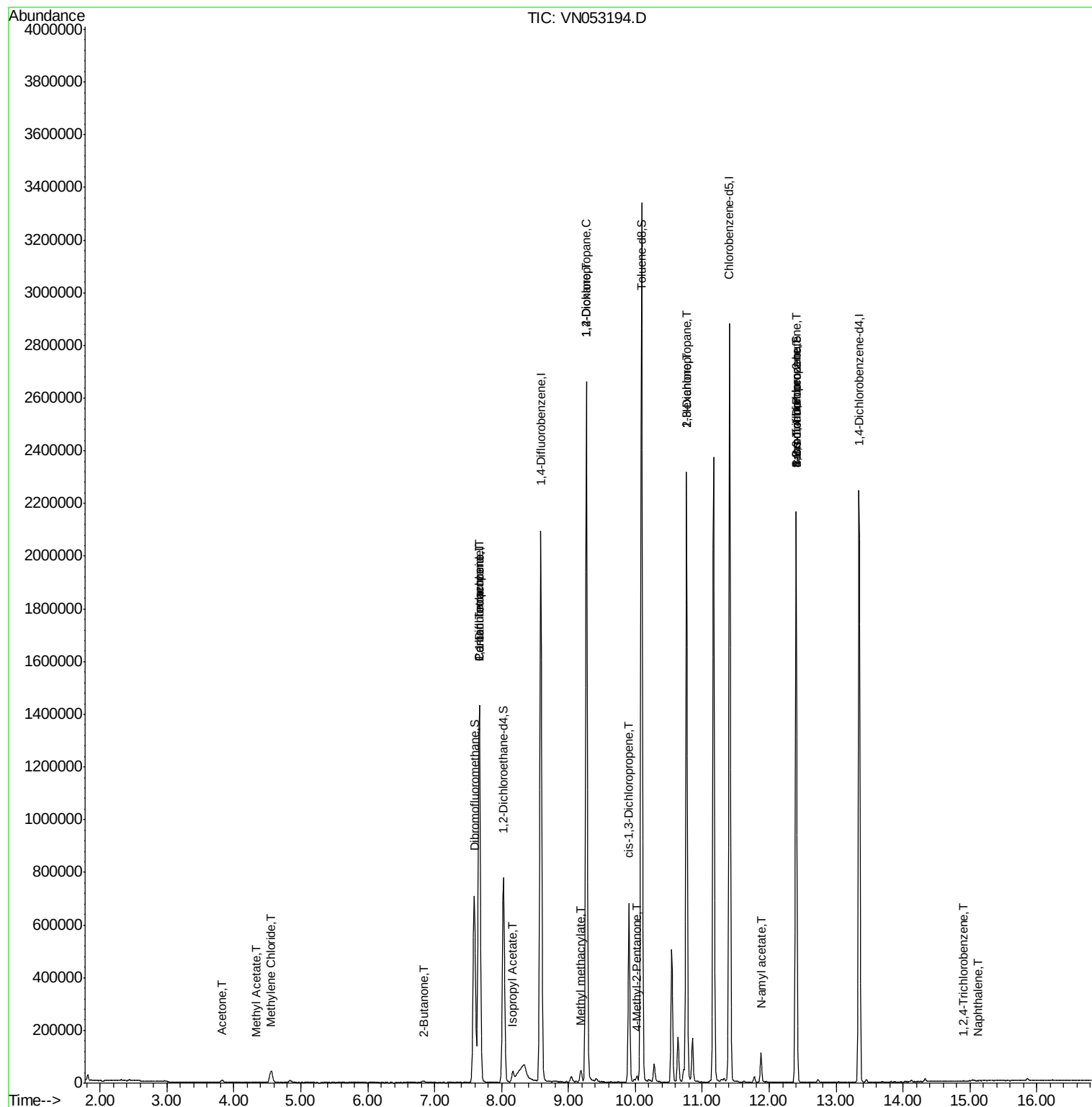
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	18083	7.187	ug/l	91
18) Methyl Acetate	4.33	43	5461	1.461	ug/l #	78
20) Methylene Chloride	4.55	84	34747	2.532	ug/l	93
25) 2-Butanone	6.84	43	854	0.202	ug/l #	5
31) Cyclohexane	7.67	56	20537	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	83060	4.375	ug/l #	49
38) Carbon Tetrachloride	7.67	117	110939	6.376	ug/l #	16
43) Isopropyl Acetate	8.17	43	53737	1.609	ug/l #	85
45) 1,2-Dichloropropane	9.27	63	3144	0.214	ug/l #	44
48) Methyl methacrylate	9.18	41	16362	1.591	ug/l #	12
49) 1,4-Dioxane	9.26	88	302	2.322	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	19515	1.902	ug/l #	35
54) cis-1,3-Dichloropropene	9.90	75	129420	5.888	ug/l #	59
57) 1,3-Dichloropropane	10.76	76	24919	1.190	ug/l #	42
59) 2-Hexanone	10.76	43	323646	46.611	ug/l #	50
71) Bromoform	12.40	173	4433	0.459	ug/l #	1
74) N-amyl acetate	11.88	43	34337	2.442	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	350041	32.129	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	350041	103.556	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.91	180	72	0.602	ug/l #	45
95) Naphthalene	15.12	128	240	1.156	ug/l #	69

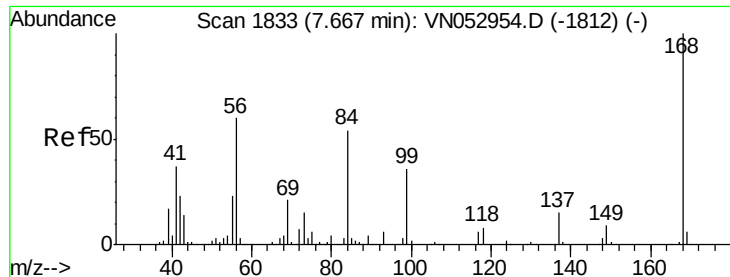
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 18 13:03:37 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: VN053194.D

Acq: 24 Dec 2018 19:13

Instrument :

MSVOA_N

ClientSampleId :

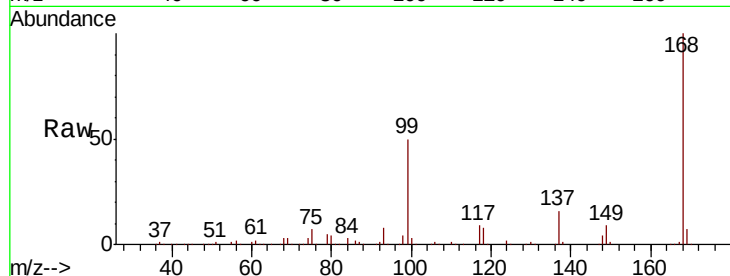
SB-64(0-5)-GRAB

Tot Ion:168 Resp: 1264565

Ion Ratio Lower Upper

168 100

99 49.7 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

600000

500000

400000

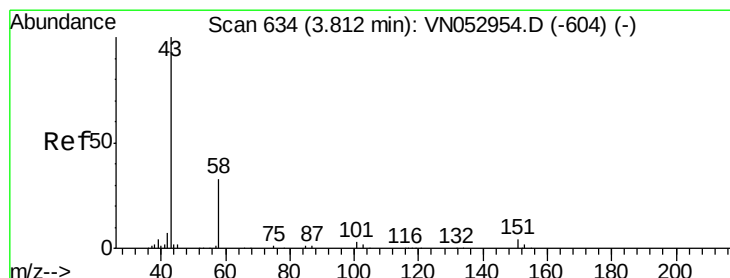
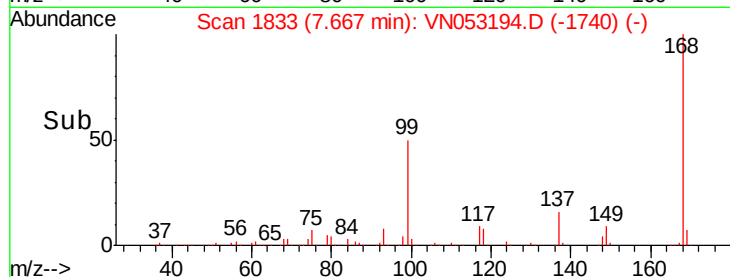
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 7.187 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN053194.D

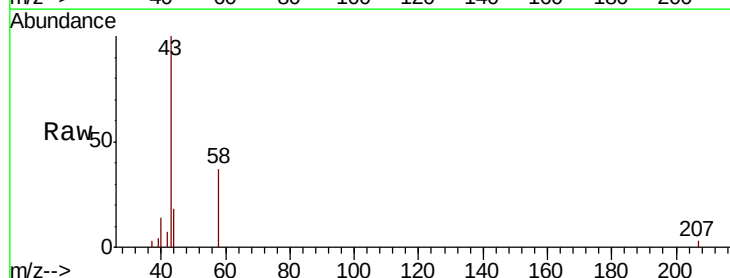
Acq: 24 Dec 2018 19:13

Tgt Ion: 43 Resp: 18083

Ion Ratio Lower Upper

43 100

58 36.9 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

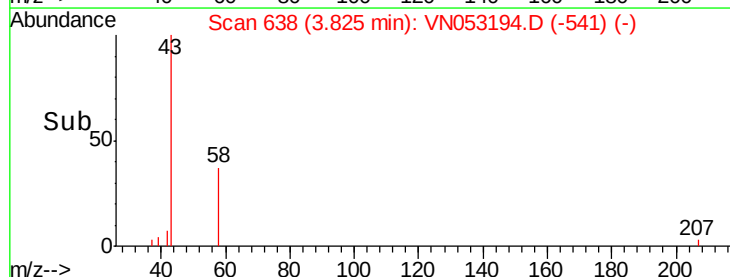
6000

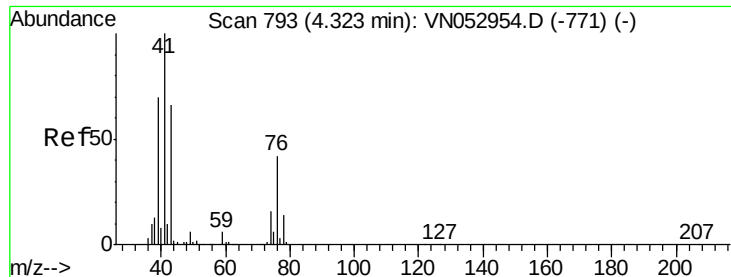
4000

2000

0

Time-->

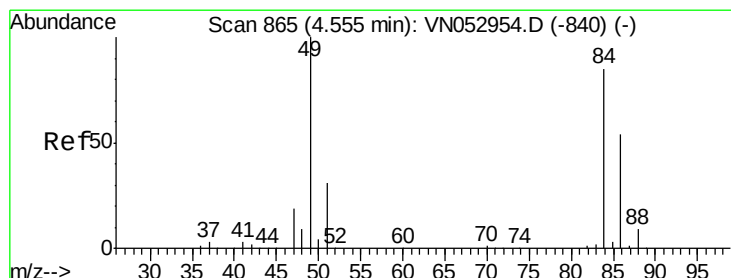
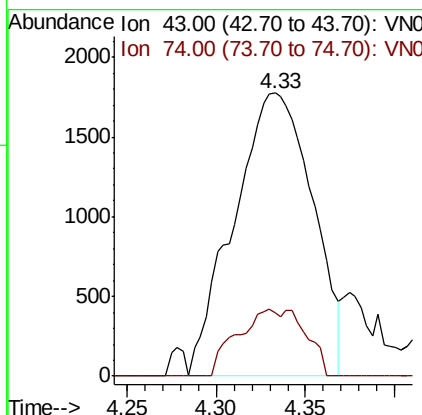
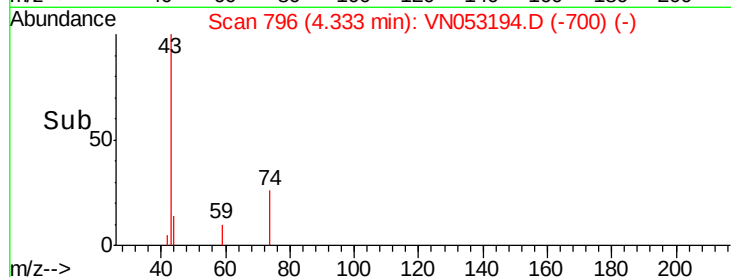
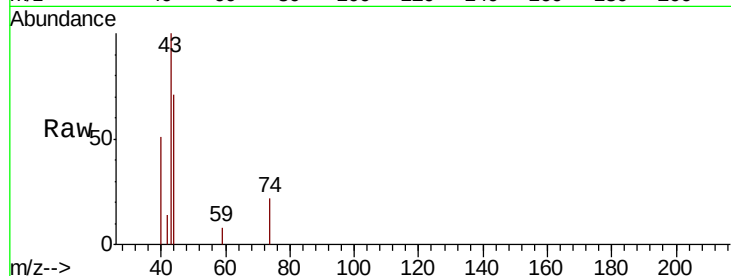




#18
Methyl Acetate
Concen: 1.461 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN053194.D
Acq: 24 Dec 2018 19:13

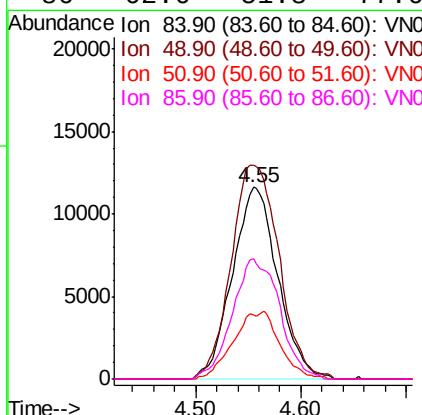
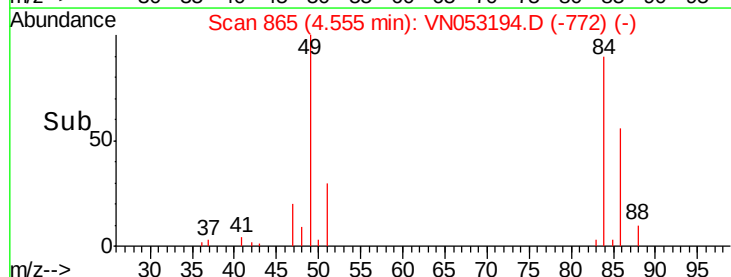
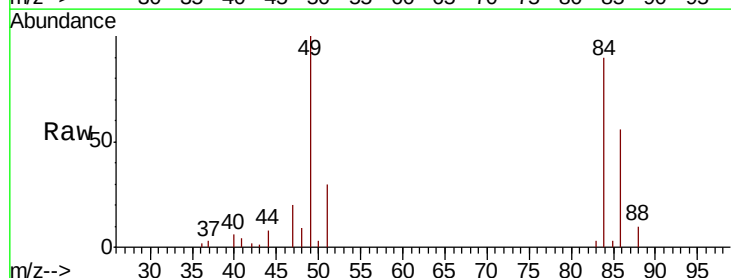
Instrument :
MSVOA_N
ClientSampleId :
SB-64(0-5)-GRAB

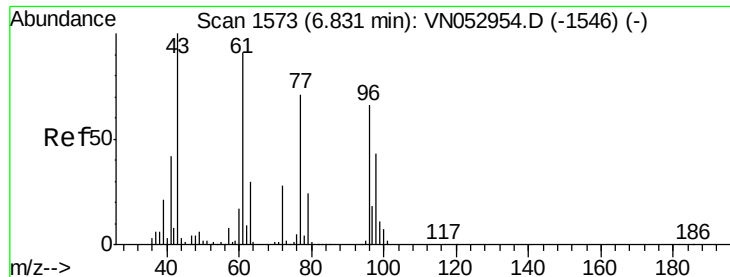
Tot Ion: 43 Resp: 5461
Ion Ratio Lower Upper
43 100
74 13.0 19.2 28.8#



#20
Methylene Chloride
Concen: 2.532 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN053194.D
Acq: 24 Dec 2018 19:13

Tgt Ion: 84 Resp: 34747
Ion Ratio Lower Upper
84 100
49 111.2 96.8 145.2
51 33.4 29.9 44.9
86 62.6 51.8 77.6





#25

2-Butanone

Concen: 0.202 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VN053194.D

Acq: 24 Dec 2018 19:13

Instrument :

MSVOA_N

ClientSampleId :

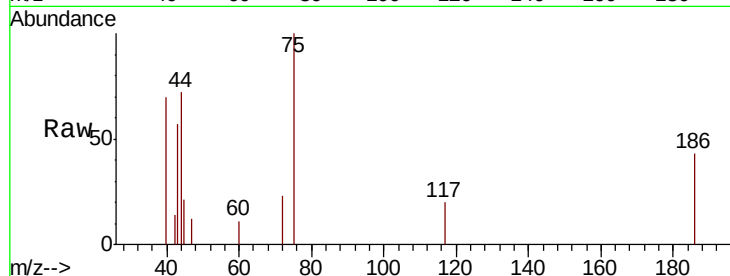
SB-64(0-5)-GRAB

Tot Ion: 43 Resp: 854

Ion Ratio Lower Upper

43 100

72 74.9 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.84

800

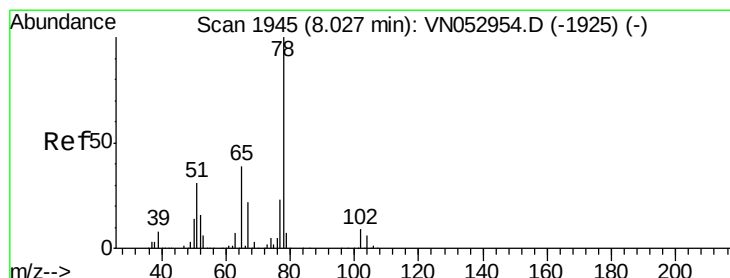
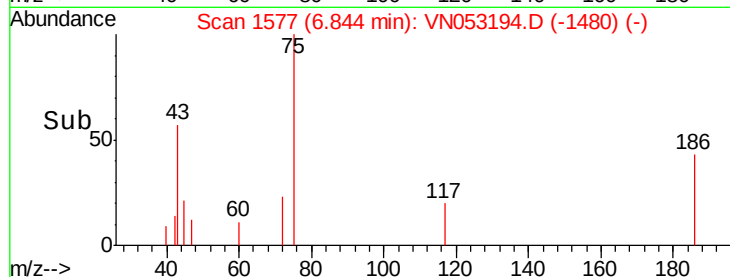
600

400

200

0

Time--> 6.80 6.82 6.84 6.86



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN053194.D

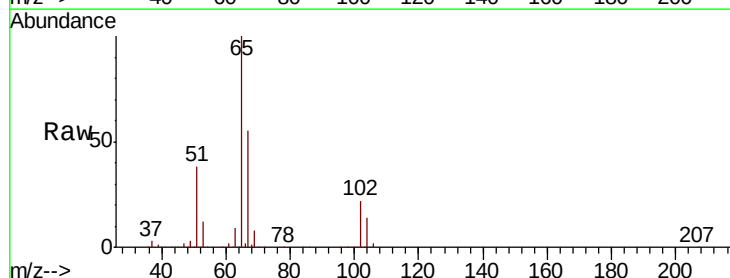
Acq: 24 Dec 2018 19:13

Tgt Ion: 65 Resp: 641144

Ion Ratio Lower Upper

65 100

67 55.4 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

300000

250000

200000

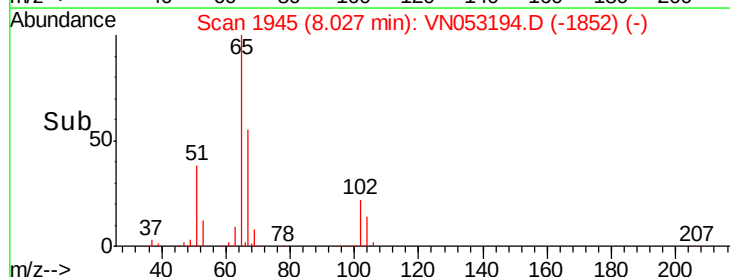
150000

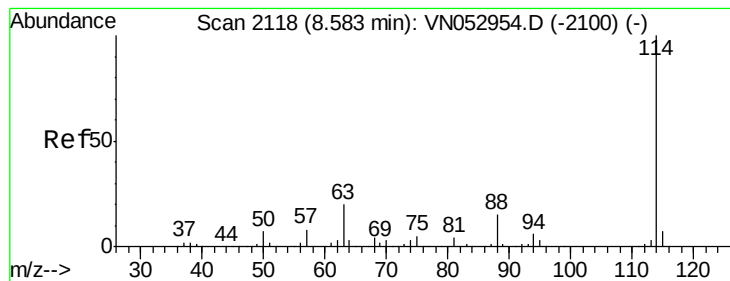
100000

50000

0

Time--> 7.90 8.00 8.10





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053194.D

Acq: 24 Dec 2018 19:13

Instrument :

MSVOA_N

ClientSampleId :

SB-64(0-5)-GRAB

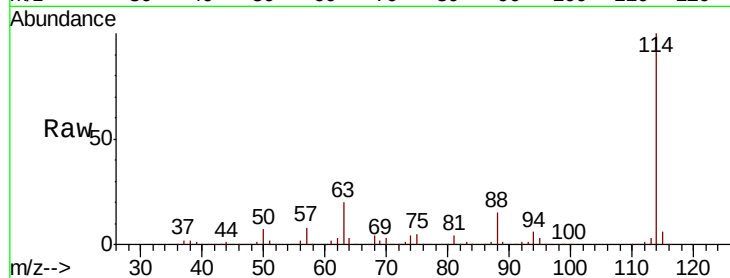
Tot Ion:114 Resp: 1977764

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.8

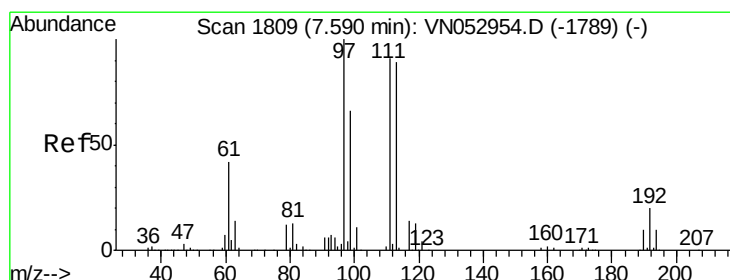
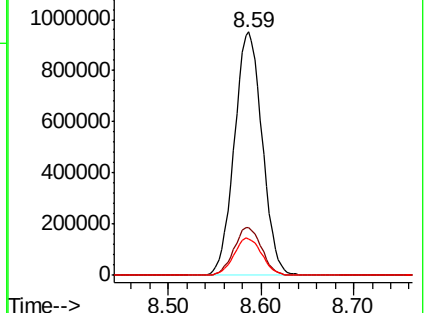
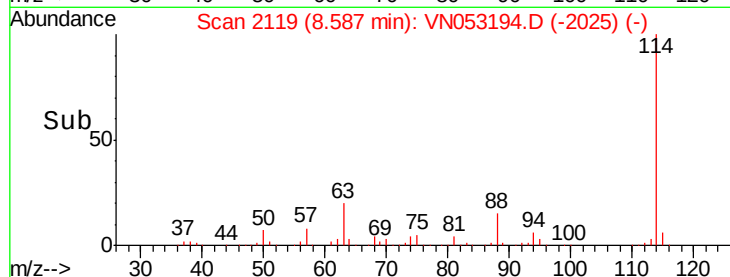
88 15.1 0.0 31.0



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: VN053194.D

Acq: 24 Dec 2018 19:13

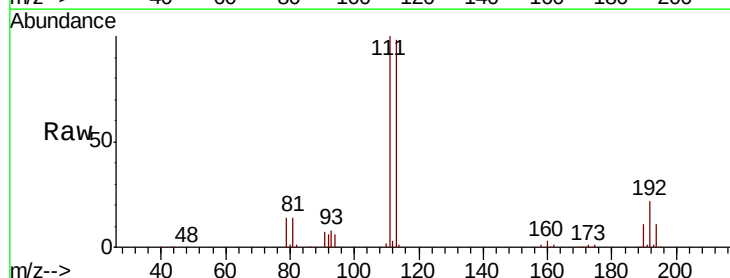
Tgt Ion:113 Resp: 548072

Ion Ratio Lower Upper

113 100

111 102.1 83.0 124.4

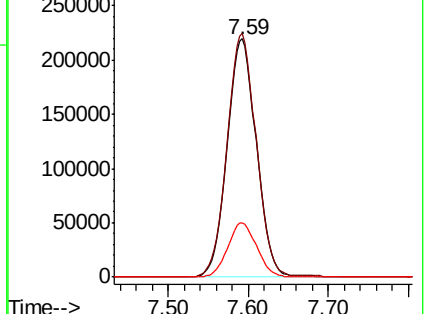
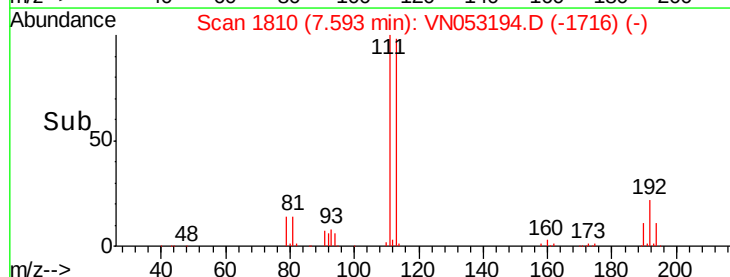
192 22.6 17.5 26.3

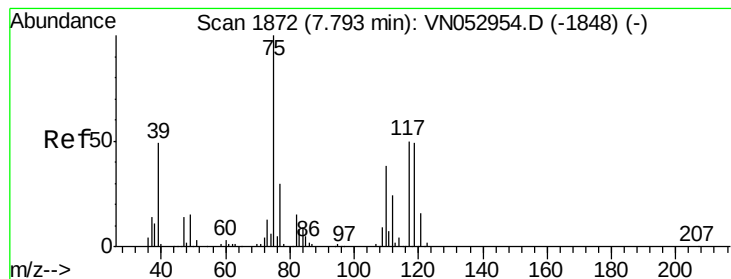


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.375 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053194.D

Acq: 24 Dec 2018 19:13

Instrument :

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ClientSampleId :

SB-64(0-5)-GRAB

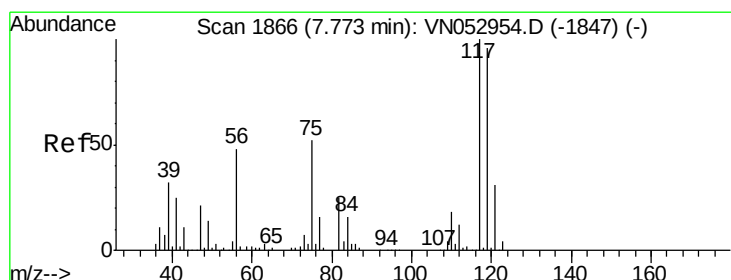
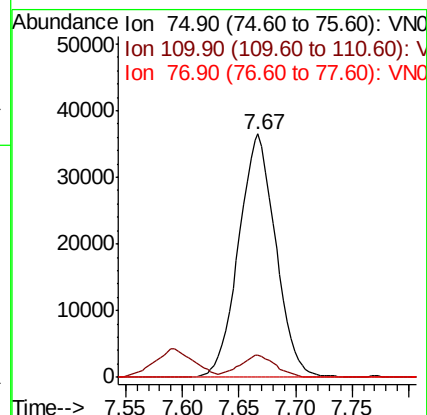
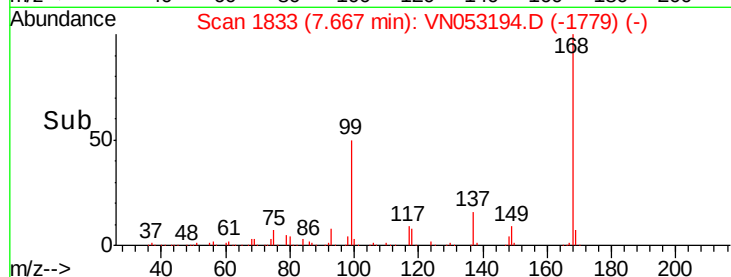
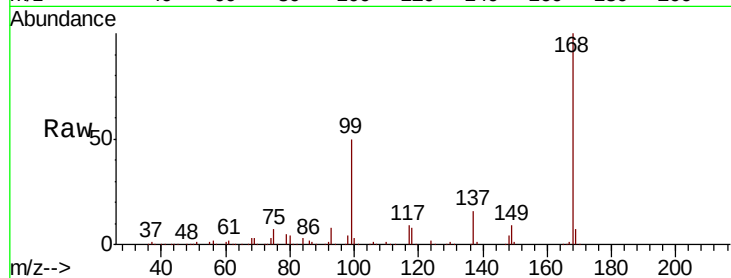
Tot Ion: 75 Resp: 83060

Ion Ratio Lower Upper

75 100

110 8.9 18.2 54.6#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 6.376 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053194.D

Acq: 24 Dec 2018 19:13

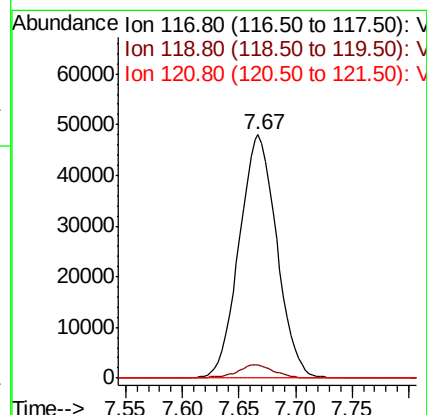
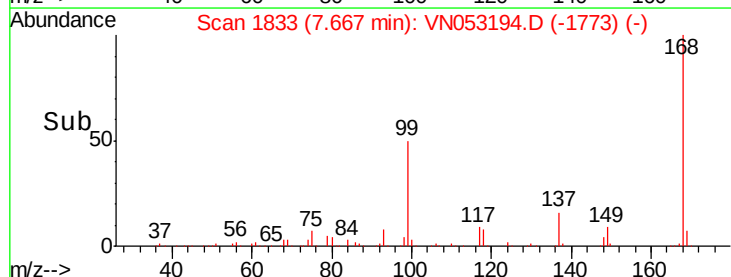
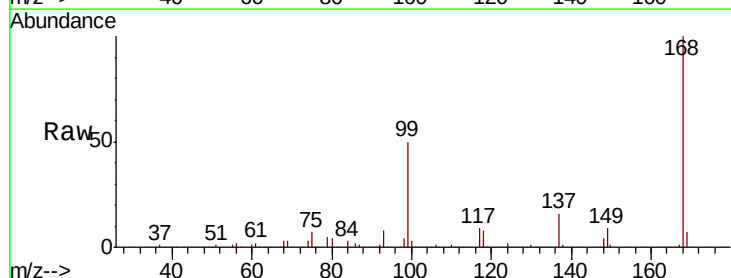
Tgt Ion: 117 Resp: 110939

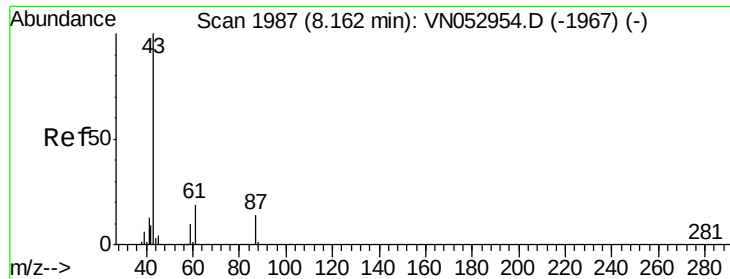
Ion Ratio Lower Upper

117 100

119 5.3 77.1 115.7#

121 0.0 24.9 37.3#





#43

Isopropyl Acetate

Concen: 1.609 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN053194.D

Acq: 24 Dec 2018 19:13

Instrument :

MSVOA_N

ClientSampled :

SB-64(0-5)-GRAB

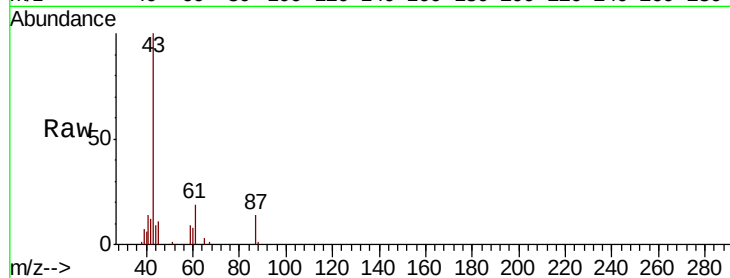
Tot Ion: 43 Resp: 53737

Ion Ratio Lower Upper

43 100

61 17.8 22.9 34.3#

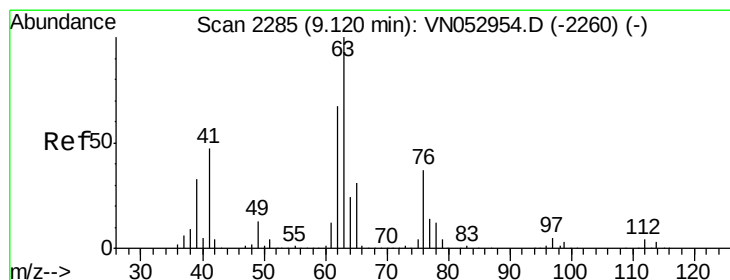
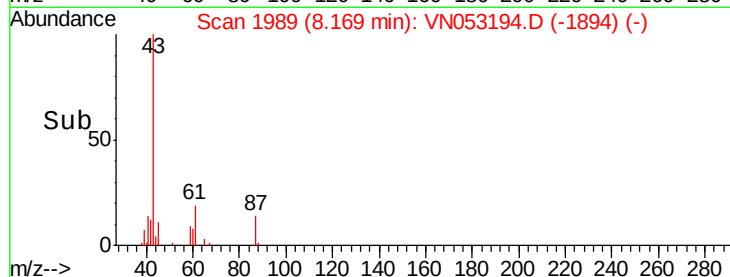
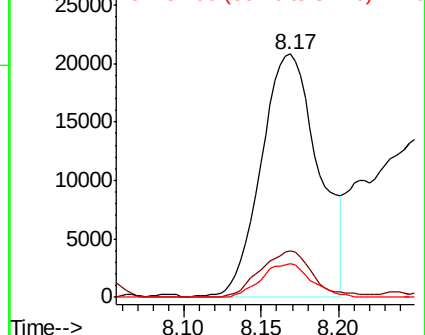
87 11.9 10.6 15.8



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



#45

1,2-Dichloropropane

Concen: 0.214 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.14 min

Lab File: VN053194.D

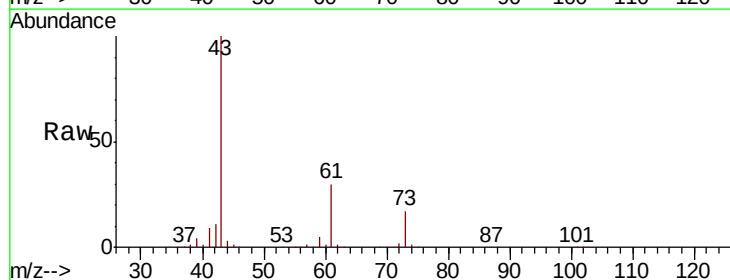
Acq: 24 Dec 2018 19:13

Tgt Ion: 63 Resp: 3144

Ion Ratio Lower Upper

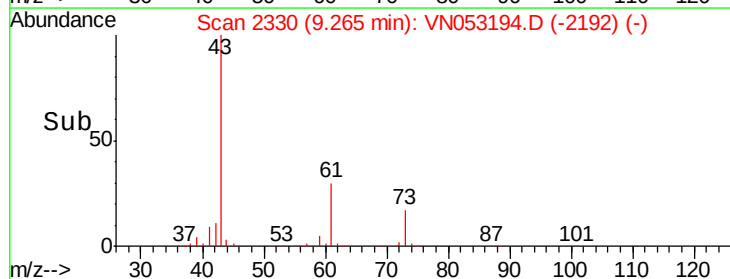
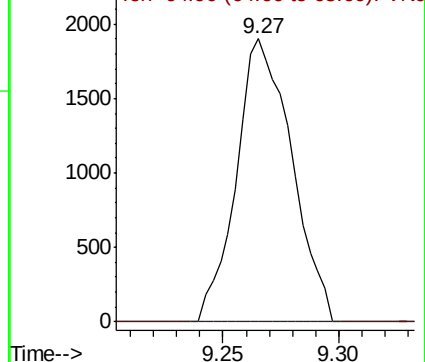
63 100

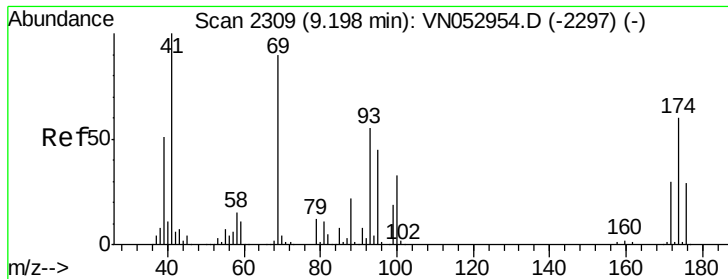
65 0.0 24.6 37.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

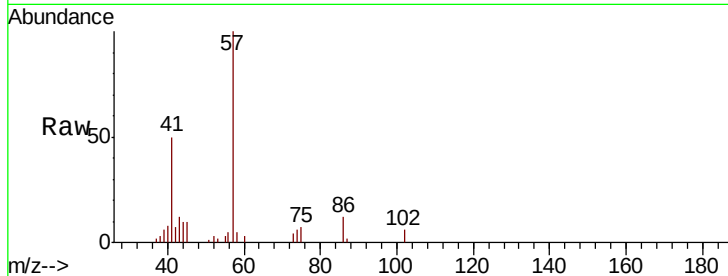




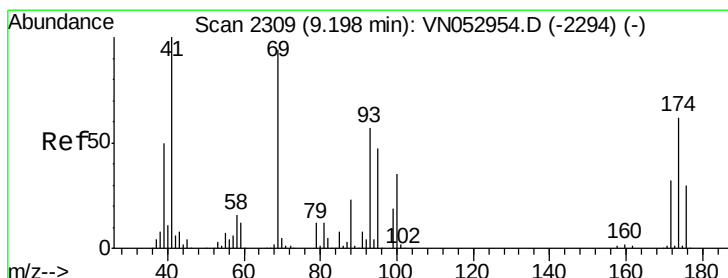
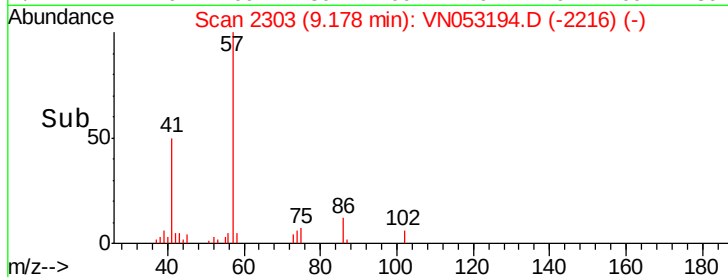
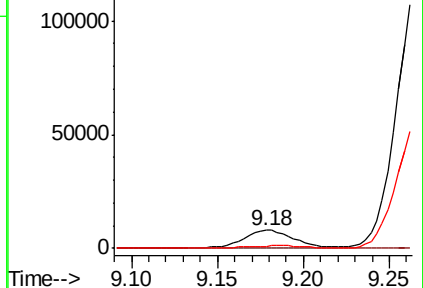
#48
Methvl methacrylate
Concen: 1.591 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN053194.D
Acq: 24 Dec 2018 19:13

Instrument :
MSVOA_N
ClientSampled :
SB-64(0-5)-GRAB

Tot Ion: 41 Resp: 16362
Ion Ratio Lower Upper
41 100
69 0.0 72.2 108.2#
39 0.0 41.9 62.9#

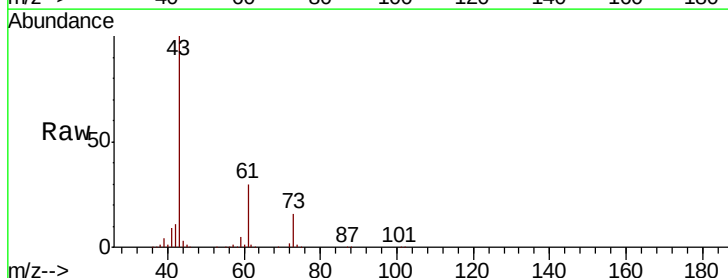


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

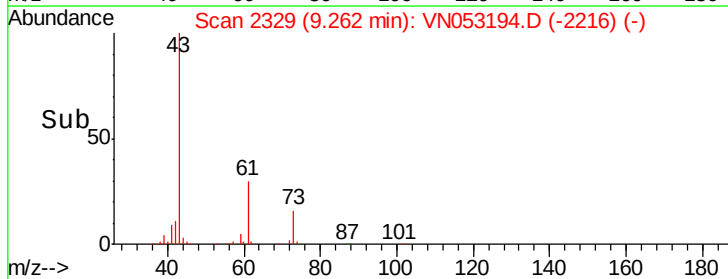
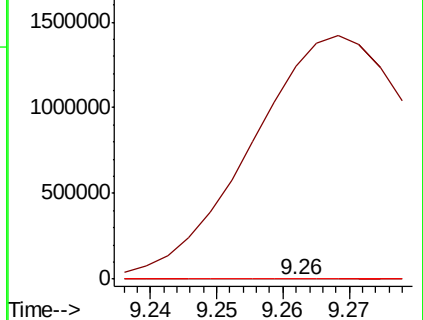


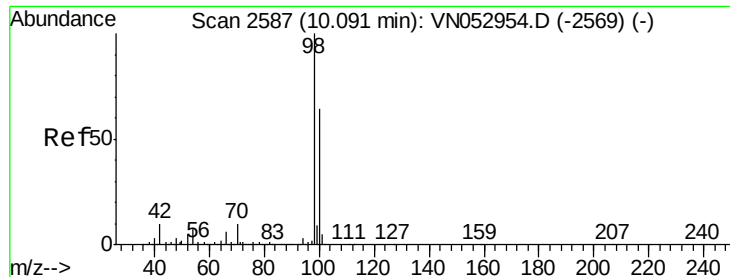
#49
1,4-Dioxane
Concen: 2.322 ug/l
RT: 9.26 min Scan# 2329
Delta R.T. 0.06 min
Lab File: VN053194.D
Acq: 24 Dec 2018 19:13

Tgt Ion: 88 Resp: 302
Ion Ratio Lower Upper
88 100
43 864277.2 26.6 40.0#
58 3530.8 58.4 87.6#



Abundance Ion 88.00 (87.70 to 88.70): VNO
Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO





#50

Toluene-d8

Concen: 2.322 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053194.D

Acq: 24 Dec 2018 19:13

Instrument :

MSVOA_N

ClientSampled :

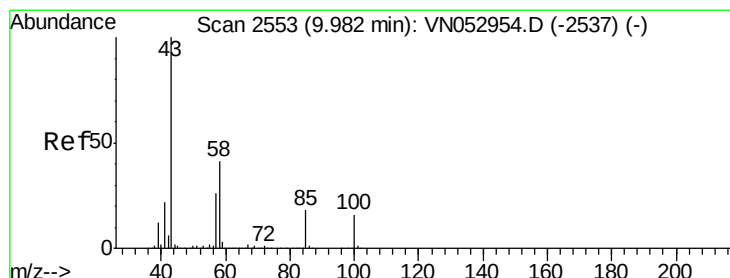
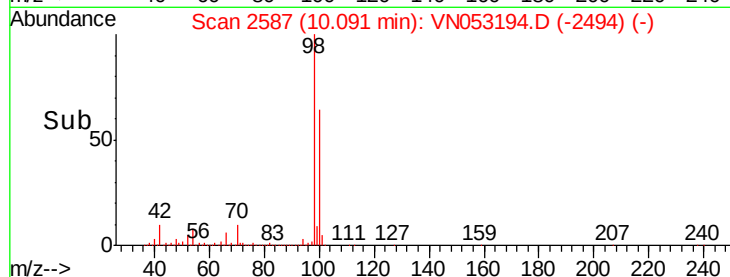
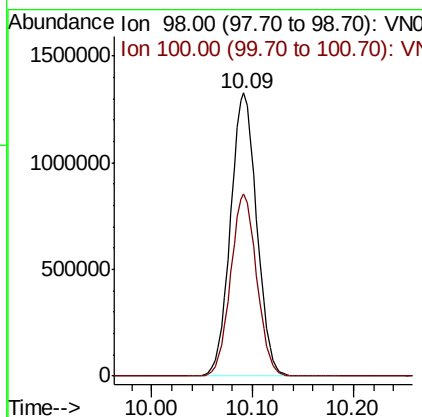
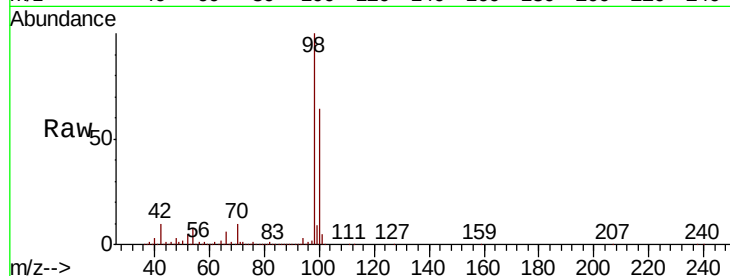
SB-64(0-5)-GRAB

Tot Ion: 98 Resp: 2404830

Ion Ratio Lower Upper

98 100

100 64.0 51.6 77.4



#51

4-Methyl-2-Pentanone

Concen: 1.902 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053194.D

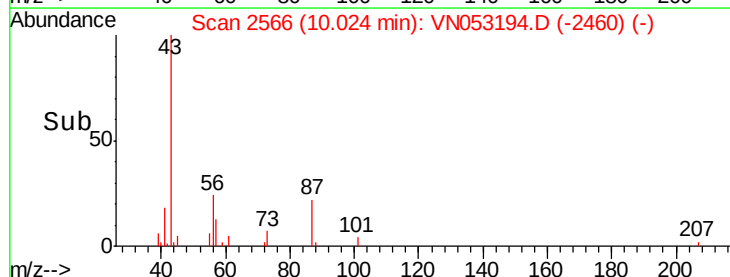
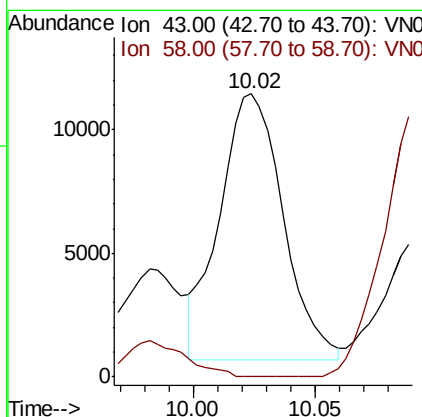
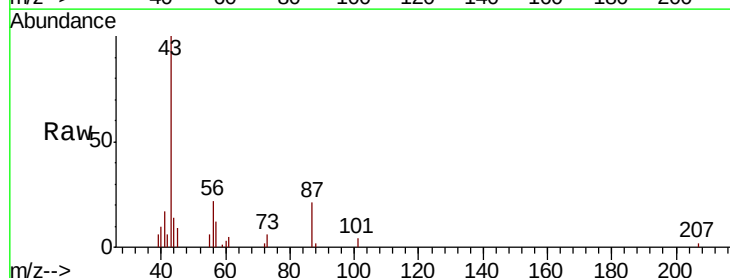
Acq: 24 Dec 2018 19:13

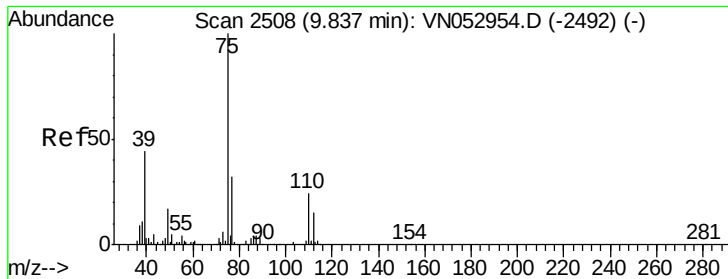
Tgt Ion: 43 Resp: 19515

Ion Ratio Lower Upper

43 100

58 0.0 32.2 48.4#





#54

cis-1,3-Dichloropropene

Concen: 5.888 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053194.D

Acq: 24 Dec 2018 19:13

Instrument :

MSVOA_N

ClientSampleId :

SB-64(0-5)-GRAB

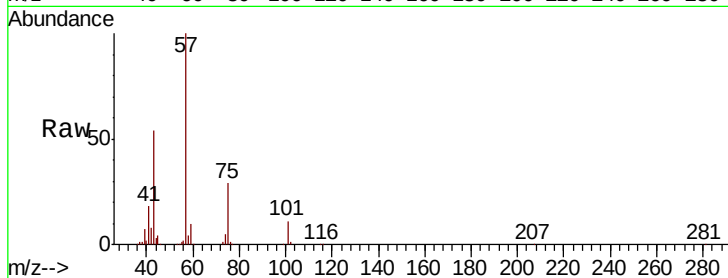
Tot Ion: 75 Resp: 129420

Ion Ratio Lower Upper

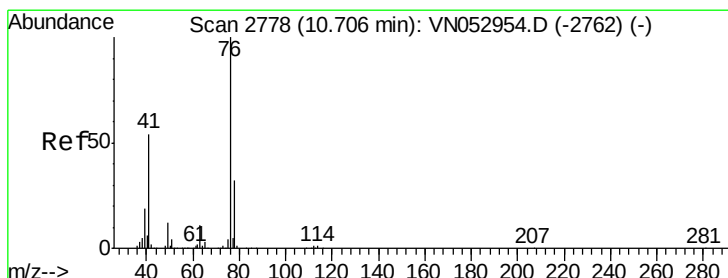
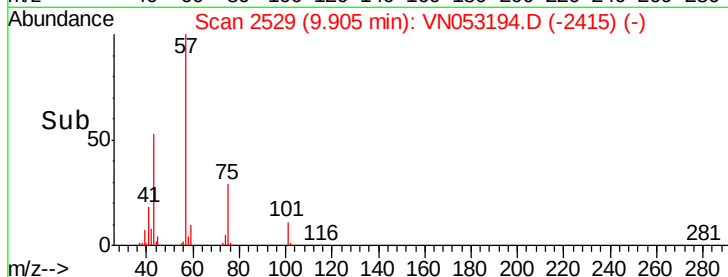
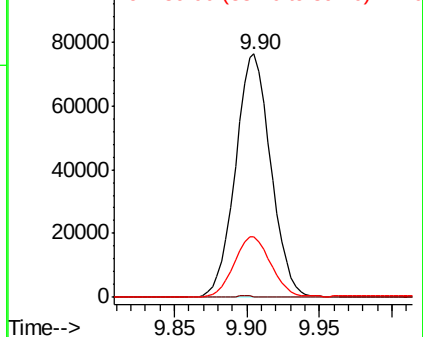
75 100

77 0.4 25.8 38.8#

39 25.0 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 76.90 (76.60 to 77.60): VNO
Ion 39.00 (38.70 to 39.70): VNO



#57

1,3-Dichloropropene

Concen: 1.190 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN053194.D

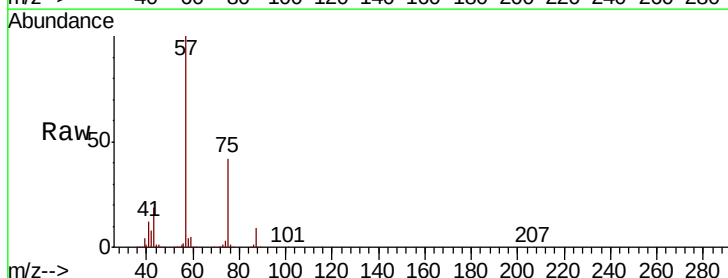
Acq: 24 Dec 2018 19:13

Tgt Ion: 76 Resp: 24919

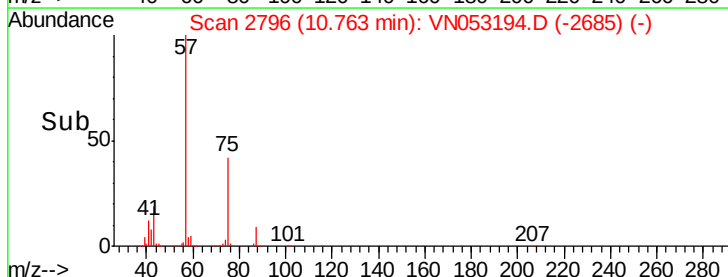
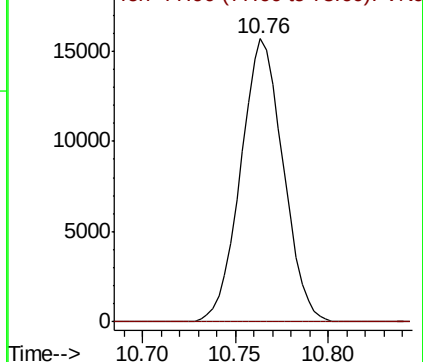
Ion Ratio Lower Upper

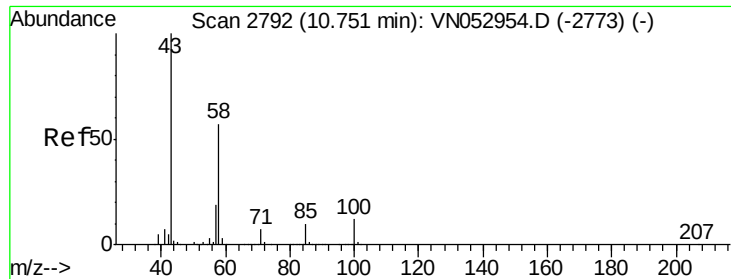
76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VNO
Ion 77.90 (77.60 to 78.60): VNO

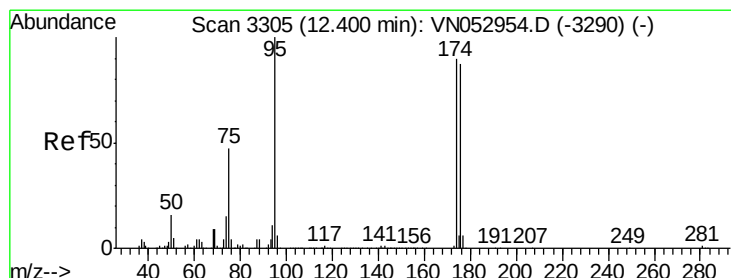
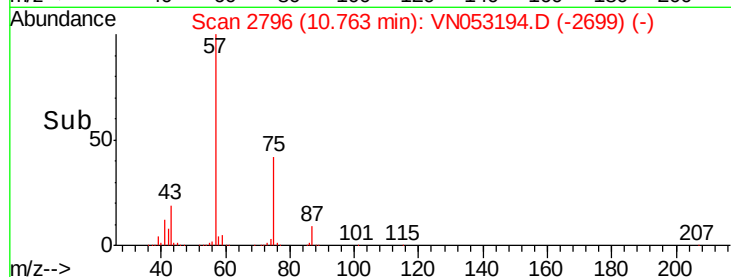
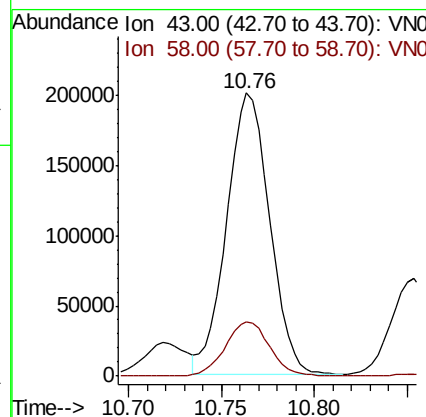
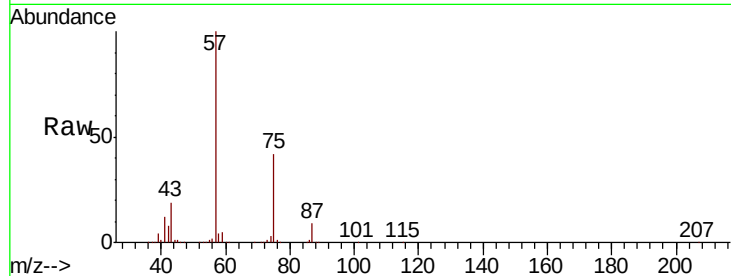




#59
2-Hexanone
Concen: 46.611 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053194.D
Acq: 24 Dec 2018 19:13

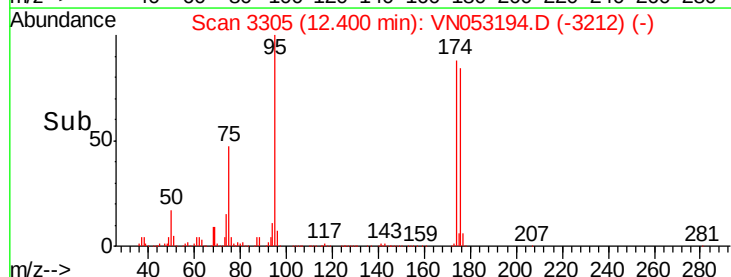
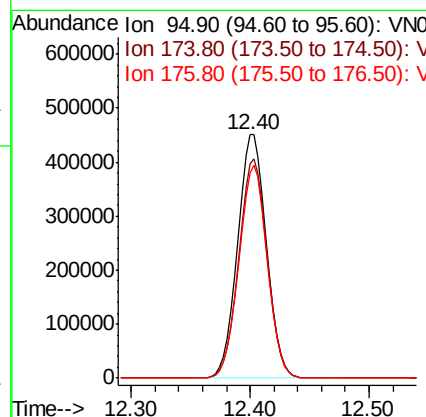
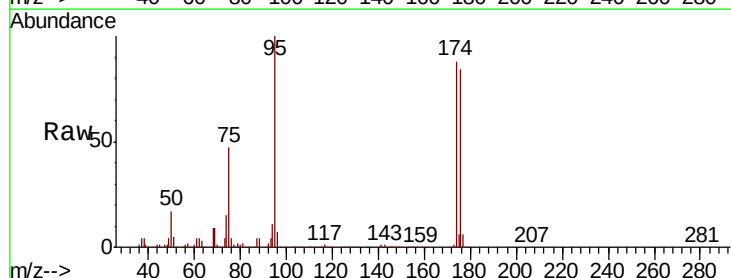
Instrument :
MSVOA_N
ClientSampleId :
SB-64(0-5)-GRAB

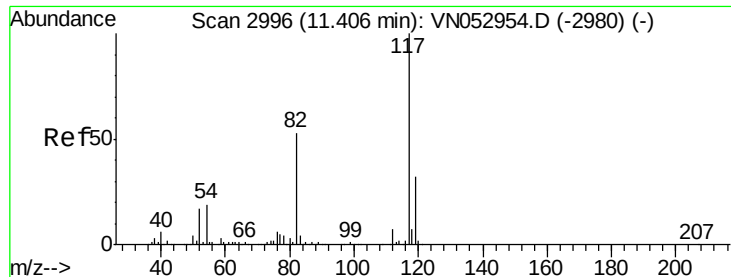
Tot Ion: 43 Resp: 323646
Ion Ratio Lower Upper
43 100
58 19.9 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN053194.D
Acq: 24 Dec 2018 19:13

Tgt Ion: 95 Resp: 754112
Ion Ratio Lower Upper
95 100
174 89.1 0.0 178.8
176 86.0 0.0 173.8

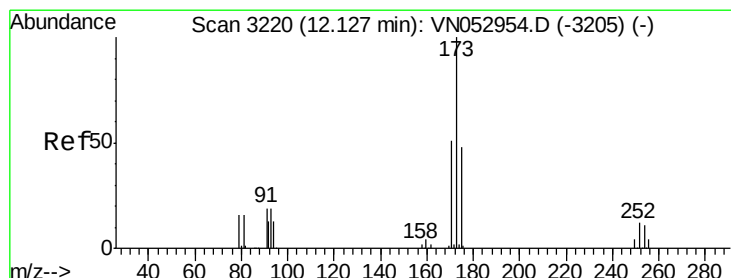
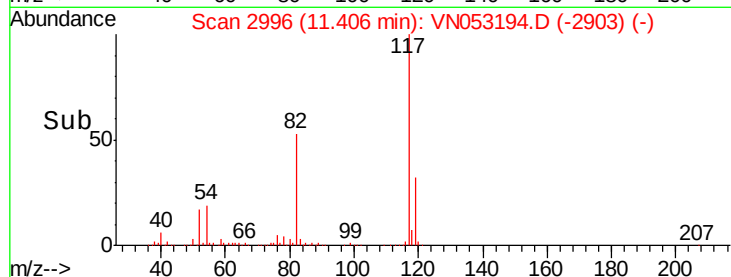
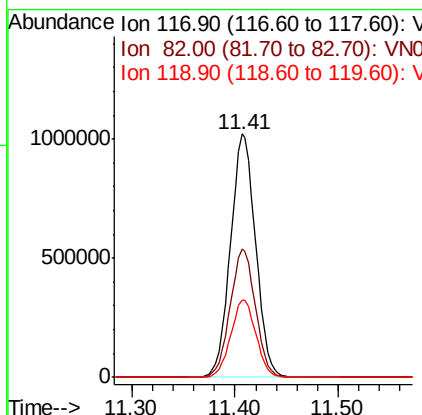
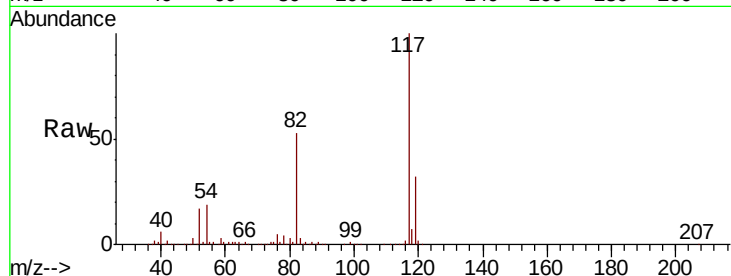




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN053194.D
Acq: 24 Dec 2018 19:13

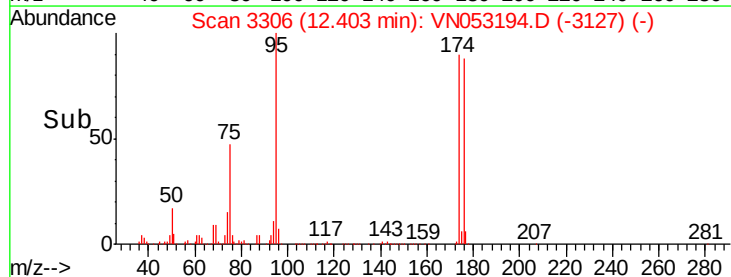
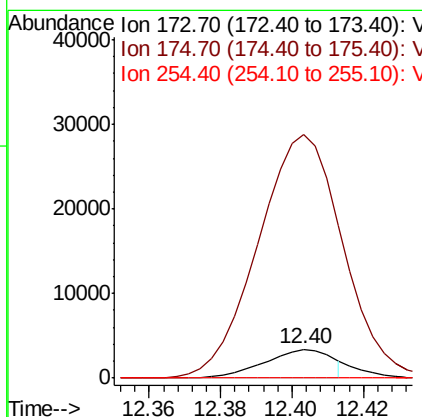
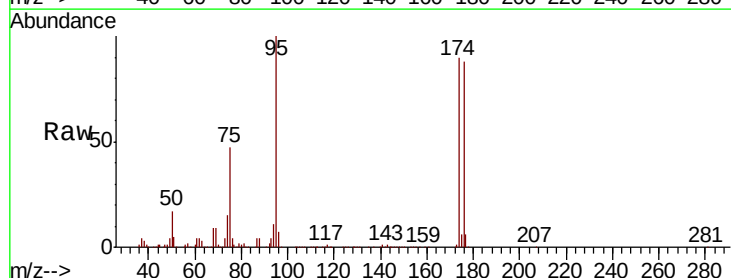
Instrument :
MSVOA_N
ClientSampled :
SB-64(0-5)-GRAB

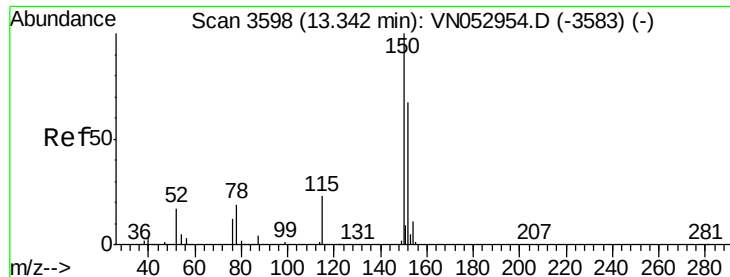
Tot Ion:117 Resp: 1732469
Ion Ratio Lower Upper
117 100
82 52.7 42.8 64.2
119 32.0 25.5 38.3



#71
Bromoform
Concen: 0.459 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053194.D
Acq: 24 Dec 2018 19:13

Tgt Ion:173 Resp: 4433
Ion Ratio Lower Upper
173 100
175 930.5 24.3 72.9#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053194.D

Acq: 24 Dec 2018 19:13

Instrument :

MSVOA_N

ClientSampleId :

SB-64(0-5)-GRAB

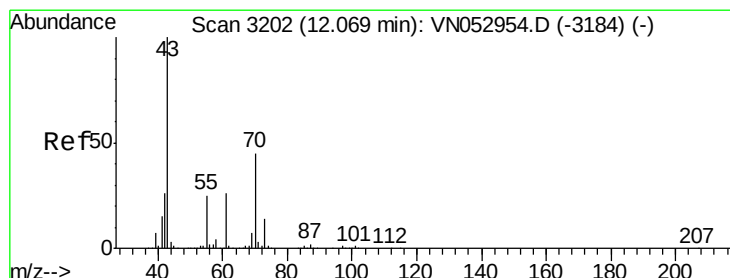
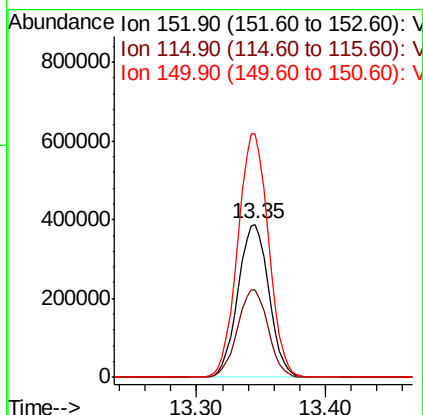
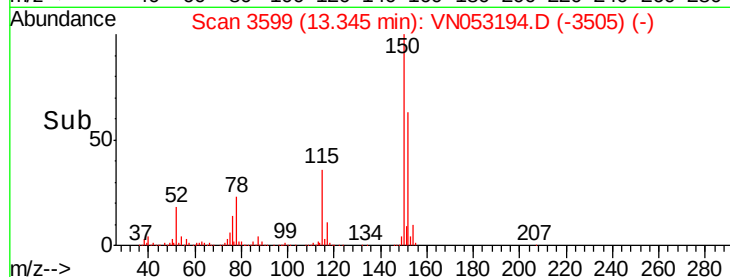
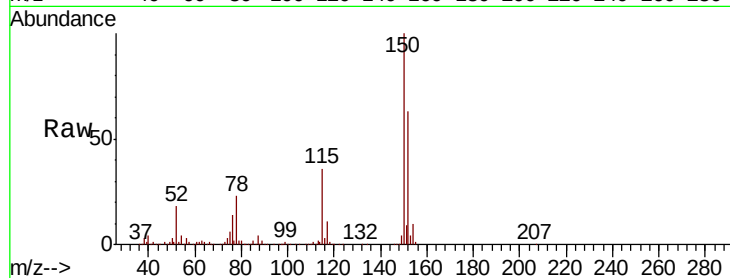
Tot Ion:152 Resp: 647195

Ion Ratio Lower Upper

152 100

115 56.7 28.3 85.0

150 158.4 0.0 347.8



#74

N-ethyl acetate

Concen: 2.442 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053194.D

Acq: 24 Dec 2018 19:13

Tgt Ion: 43 Resp: 34337

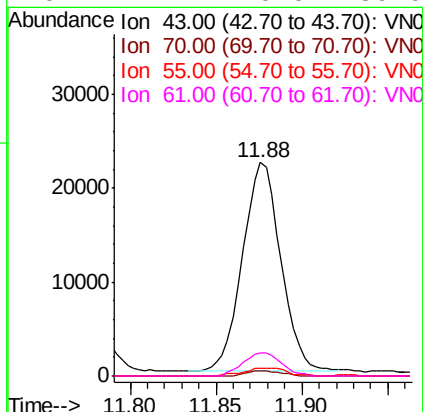
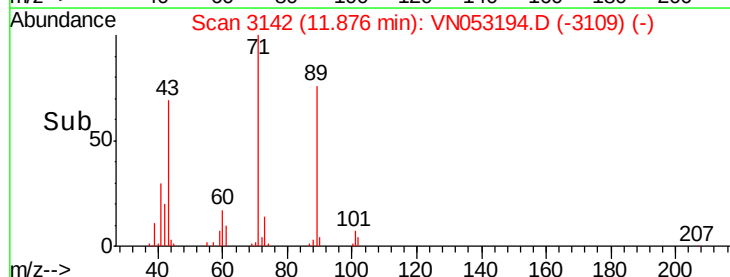
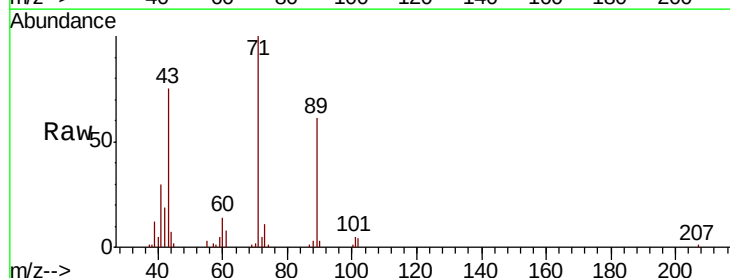
Ion Ratio Lower Upper

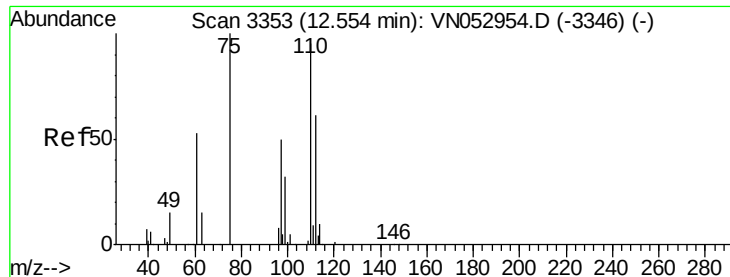
43 100

70 2.3 34.2 51.4#

55 4.4 20.3 30.5#

61 11.1 20.0 30.0#





#76

1,2,3-Trichloropropane

Concen: 32.129 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053194.D

Acq: 24 Dec 2018 19:13

Instrument :

MSVOA_N

ClientSampleId :

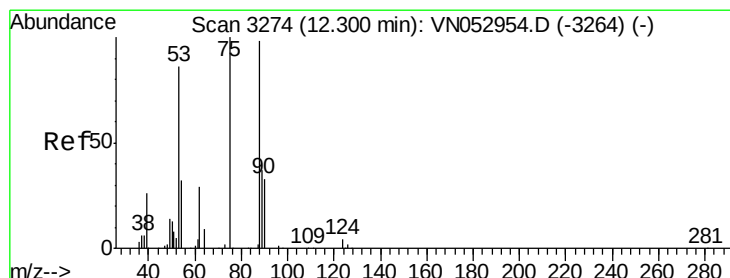
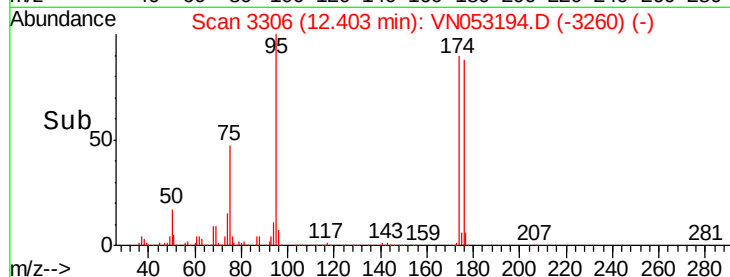
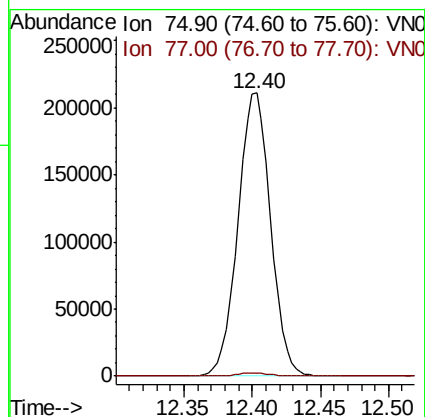
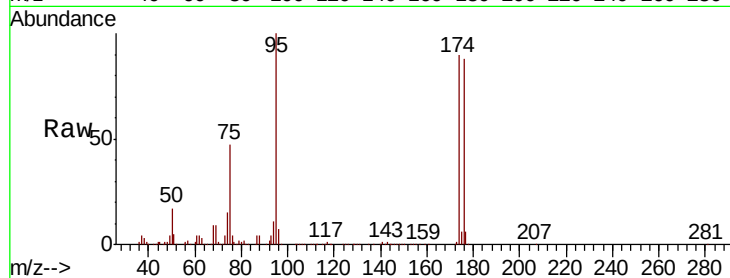
SB-64(0-5)-GRAB

Tot Ion: 75 Resp: 350041

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 103.556 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053194.D

Acq: 24 Dec 2018 19:13

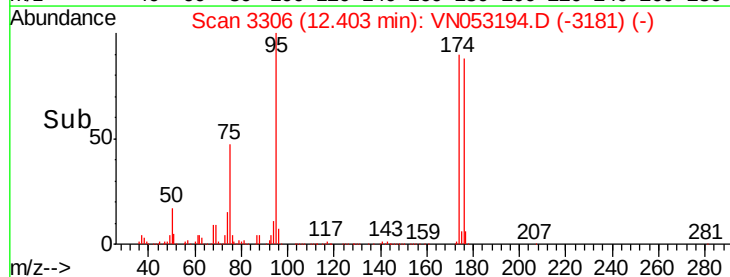
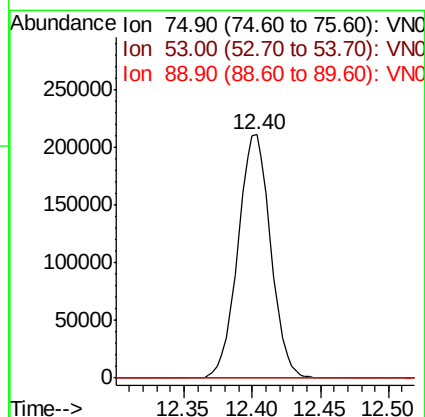
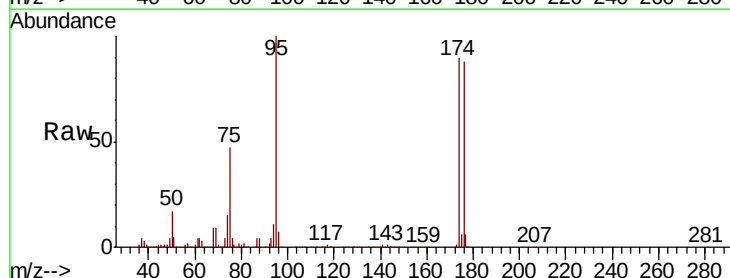
Tgt Ion: 75 Resp: 350041

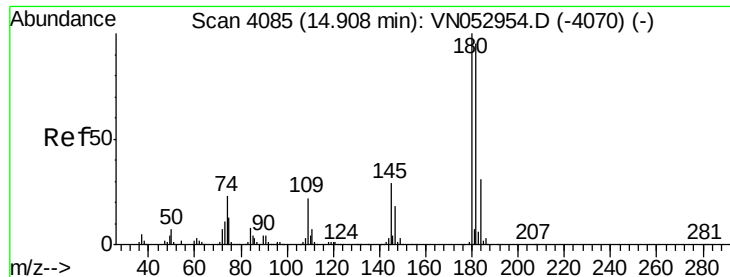
Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.0 36.1 54.1#





#93

1,2,4-Trichlorobenzene

Concen: 0.602 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN053194.D

Acq: 24 Dec 2018 19:13

Instrument :

MSVOA_N

ClientSampled :

SB-64(0-5)-GRAB

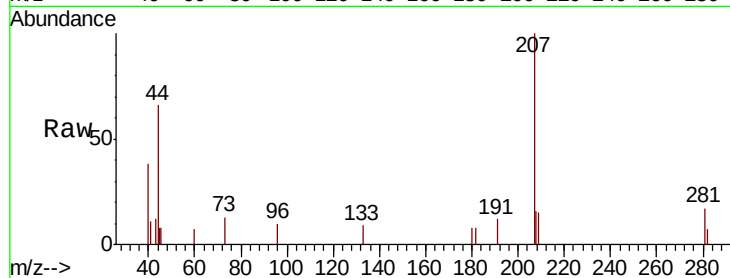
Tot Ion:180 Resp: 72

Ion Ratio Lower Upper

180 100

182 150.0 47.8 143.3#

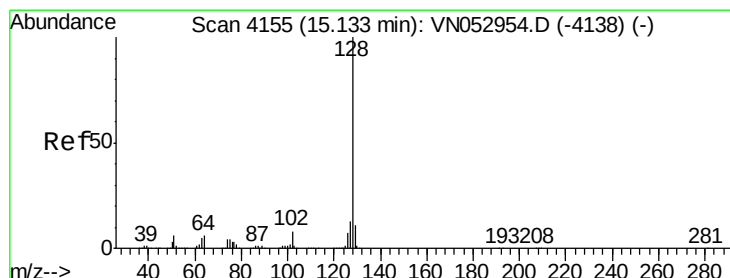
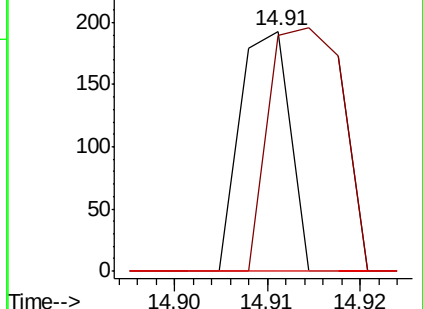
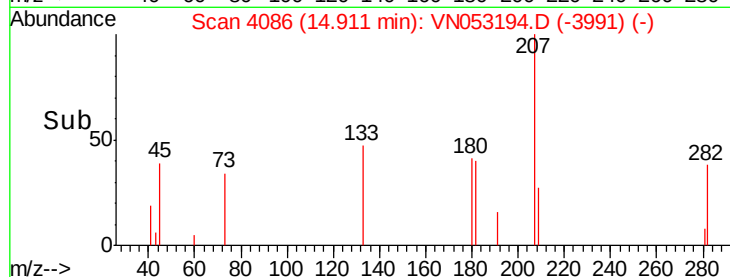
145 0.0 14.2 42.6#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 1.156 ug/l

RT: 15.12 min Scan# 4152

Delta R.T. -0.01 min

Lab File: VN053194.D

Acq: 24 Dec 2018 19:13

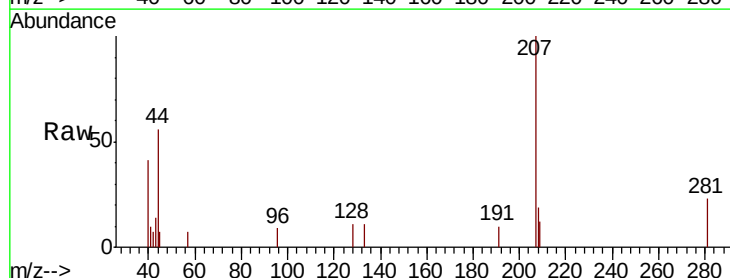
Tgt Ion:128 Resp: 240

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

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

