

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081518\
 Data File : VN050648.D
 Acq On : 15 Aug 2018 12:20
 Operator : MD\SY
 Sample : J4465-10DL 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 947-MW-11(15)DL

Quant Time: Aug 16 01:27:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 08:07:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	622021	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	962955	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	866944	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	305433	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	416136	53.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.14%	
35) Dibromofluoromethane	7.59	113	391155	50.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.76%	
50) Toluene-d8	10.09	98	1387119	47.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.88%	
62) 4-Bromofluorobenzene	12.40	95	380860	39.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.68%	

Target Compounds

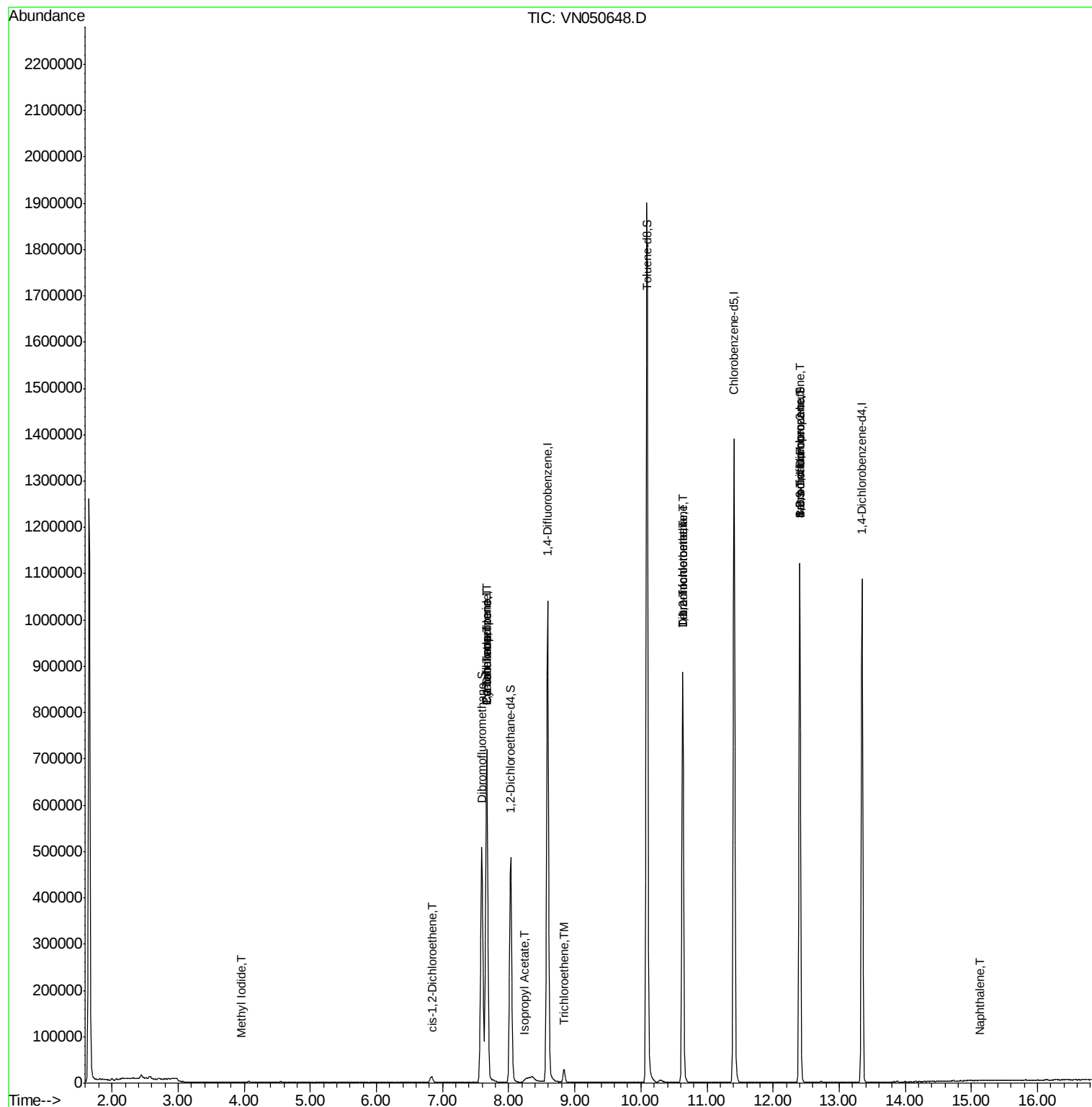
						Qvalue
3) Chloromethane	2.06	50	2482	Below Cal		93
5) Bromomethane	2.57	94	3119	Below Cal		95
6) Chloroethane	2.71	64	138	Below Cal	#	43
10) Methyl Iodide	3.96	142	1066	7.12	ug/l #	42
16) Acetone	3.83	43	2150	Below Cal		93
18) Methyl Acetate	4.33	43	2401	Below Cal	#	66
20) Methylene Chloride	4.54	84	830	Below Cal	#	58
27) cis-1,2-Dichloroethene	6.84	96	5785	0.71	ug/l	37
31) Cyclohexane	7.67	56	11159	0.60	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	42740	3.99	ug/l #	45
38) Carbon Tetrachloride	7.67	117	55587	5.00	ug/l #	17
43) Isopropyl Acetate	8.24	43	3143	0.28	ug/l #	60
44) Trichloroethene	8.84	130	11822	1.35	ug/l	95
55) 1,1,2-Trichloroethane	10.62	97	1881	0.26	ug/l #	14
60) Dibromochloromethane	10.63	129	196004	24.42	ug/l #	10
64) Tetrachloroethene	10.63	164	226424	28.12	ug/l	99
71) Bromoform	12.40	173	2008	0.37	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.40	83	31	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	183726	36.96	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	183726	133.73	ug/l #	13
95) Naphthalene	15.14	128	273	3.88	ug/l #	69

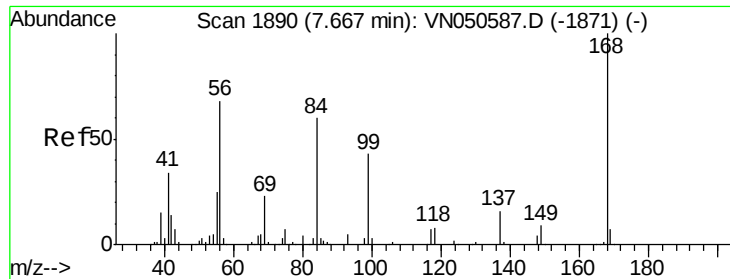
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050648.D

Acq: 15 Aug 2018 12:20

Instrument :

MSVOA_N

ClientSampleId :

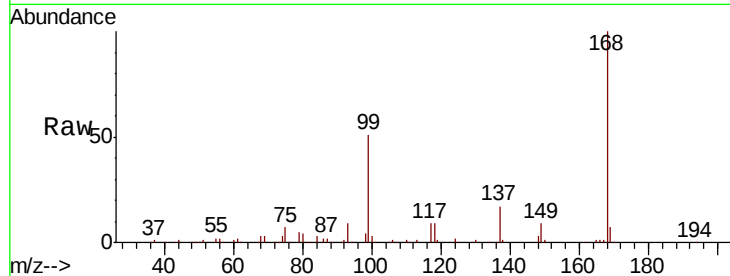
947-MW-11(15)DL

Tot Ion:168 Resp: 622021

Ion Ratio Lower Upper

168 100

99 51.0 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): VN050587.D (-1871) (-)

Ion 98.90 (98.60 to 99.60): VN050587.D (-1871) (-)

7.67

250000

200000

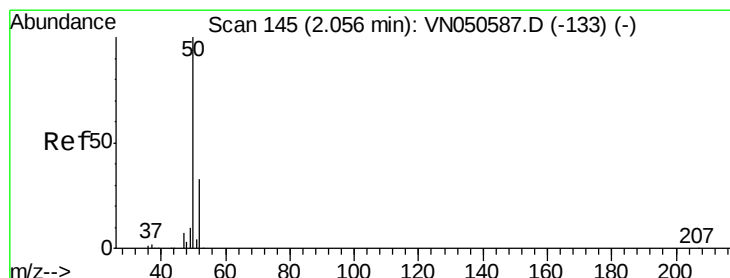
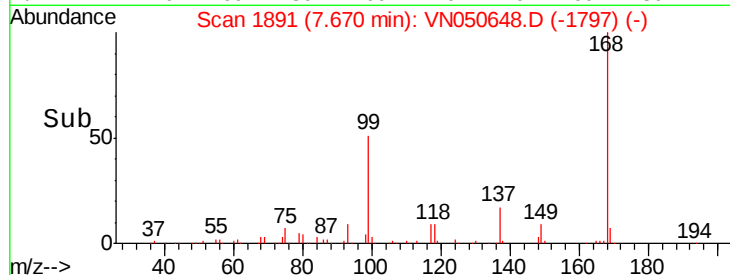
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050648.D

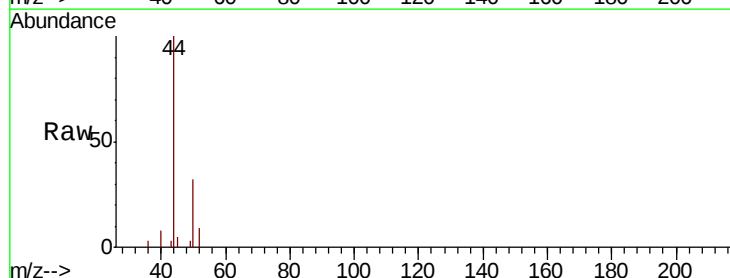
Acq: 15 Aug 2018 12:20

Tgt Ion: 50 Resp: 2482

Ion Ratio Lower Upper

50 100

52 28.4 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VN050587.D (-133) (-)

Ion 51.90 (51.60 to 52.60): VN050587.D (-133) (-)

2.06

2000

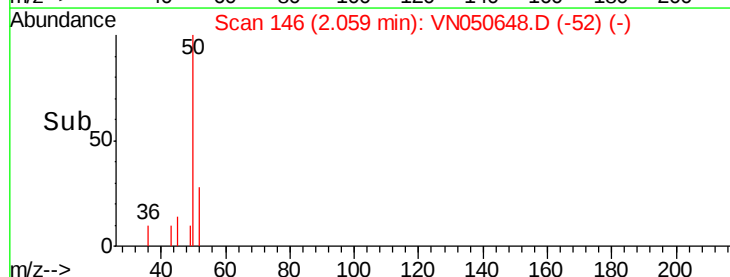
1500

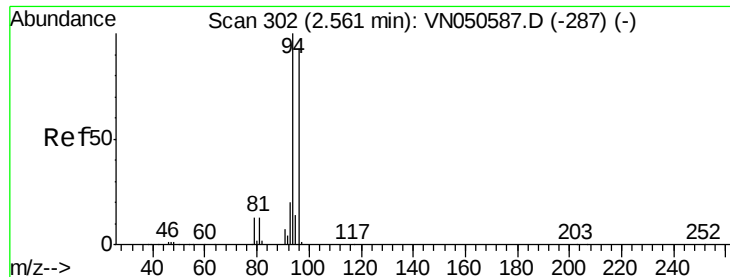
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050648.D

Acq: 15 Aug 2018 12:20

Instrument :

MSVOA_N

ClientSampleId :

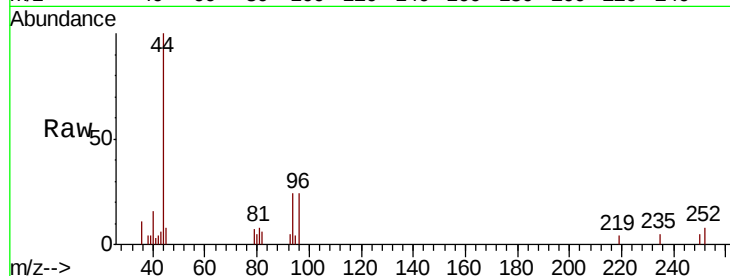
947-MW-11(15)DL

Tot Ion: 94 Resp: 3119

Ion Ratio Lower Upper

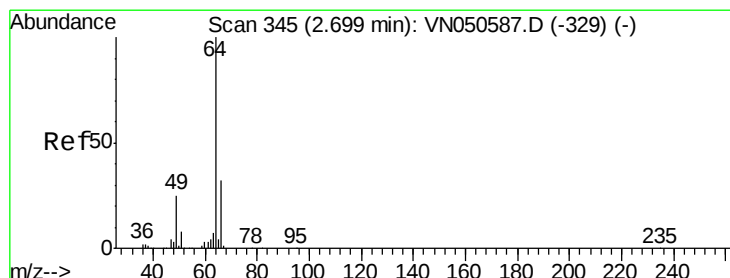
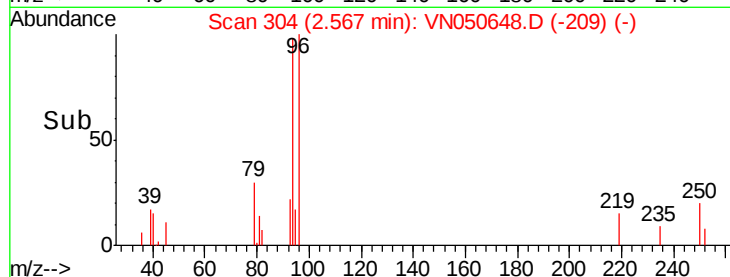
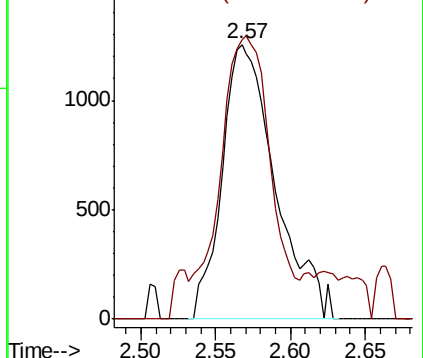
94 100

96 88.0 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: Below Cal

RT: 2.71 min Scan# 347

Delta R.T. 0.01 min

Lab File: VN050648.D

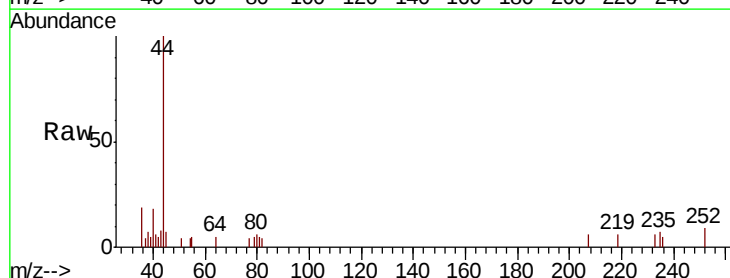
Acq: 15 Aug 2018 12:20

Tgt Ion: 64 Resp: 138

Ion Ratio Lower Upper

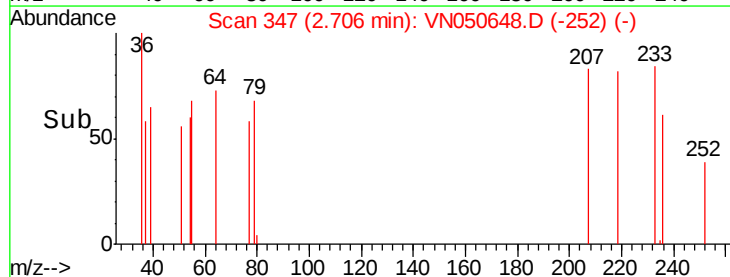
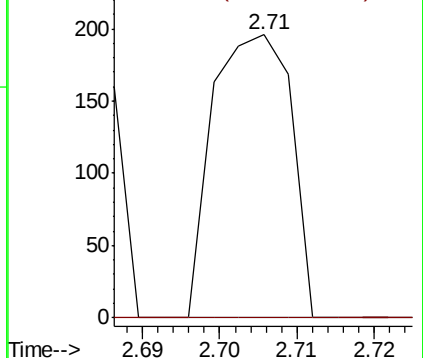
64 100

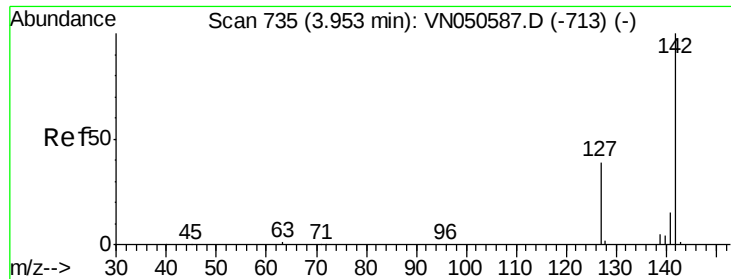
66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

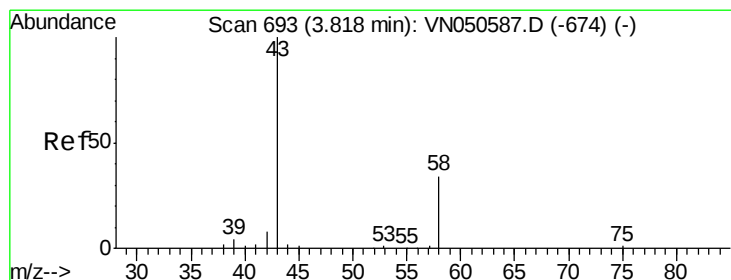
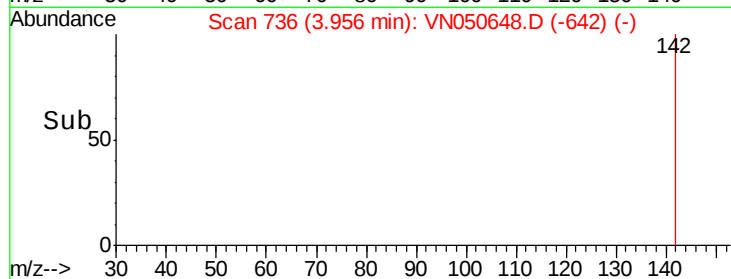
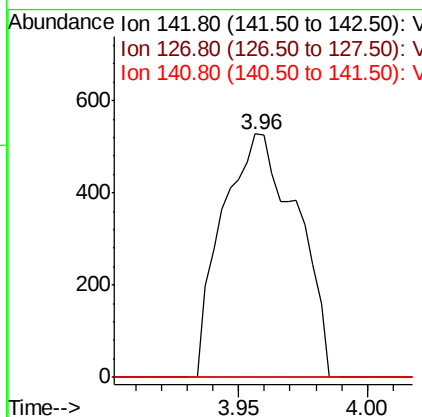
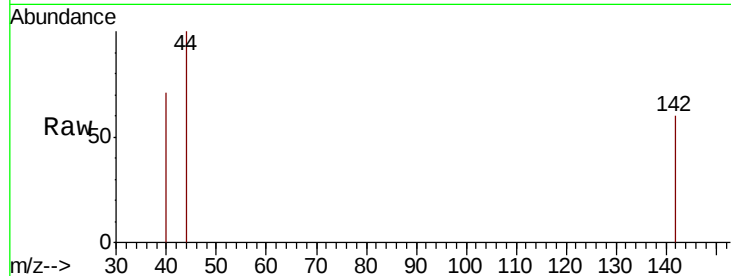




#10
Methvl Iodide
Concen: 7.12 ua/l
RT: 3.96 min Scan# 736
Delta R.T. 0.00 min
Lab File: VN050648.D
Acq: 15 Aug 2018 12:20

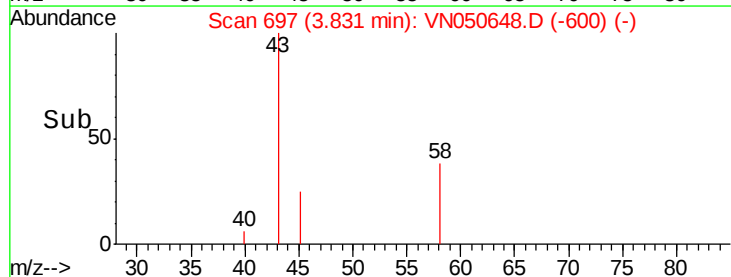
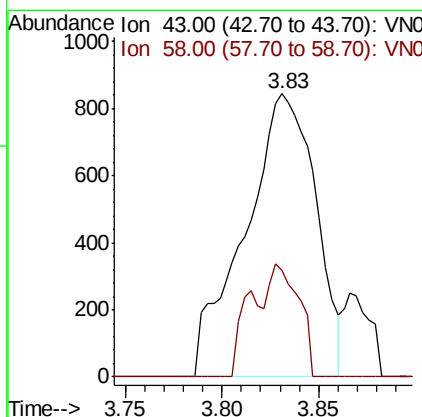
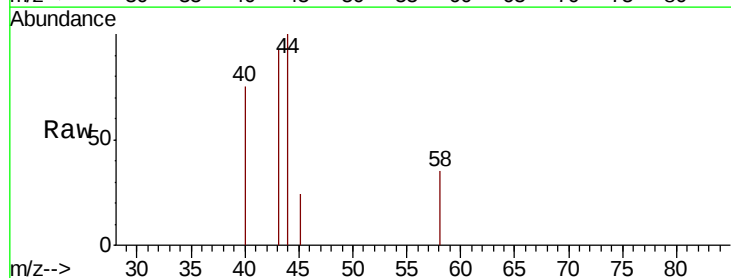
Instrument :
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947-MW-11(15)DL

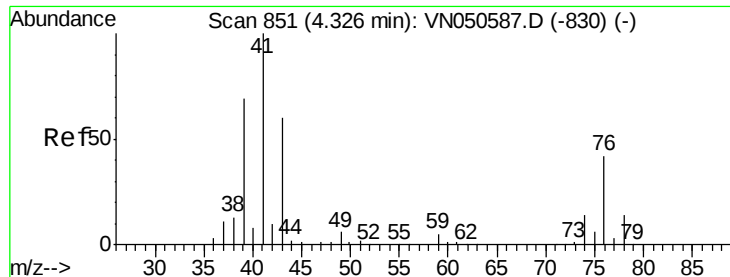
Tot Ion:142 Resp: 1066
Ion Ratio Lower Upper
142 100
127 0.0 32.6 49.0#
141 0.0 11.5 17.3#



#16
Acetone
Concen: Below Cal
RT: 3.83 min Scan# 697
Delta R.T. 0.01 min
Lab File: VN050648.D
Acq: 15 Aug 2018 12:20

Tgt Ion: 43 Resp: 2150
Ion Ratio Lower Upper
43 100
58 37.7 27.1 40.7

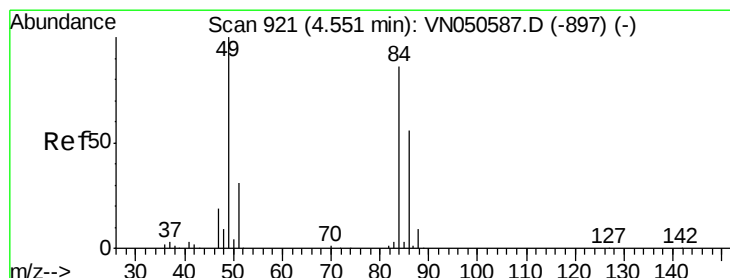
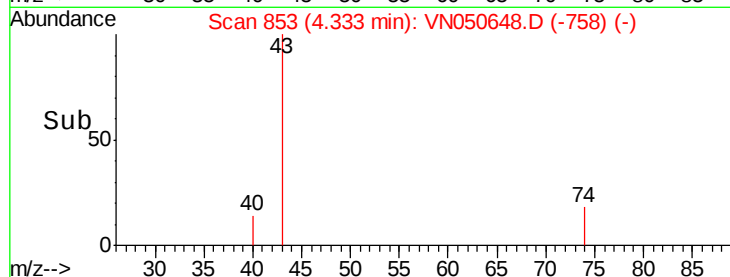
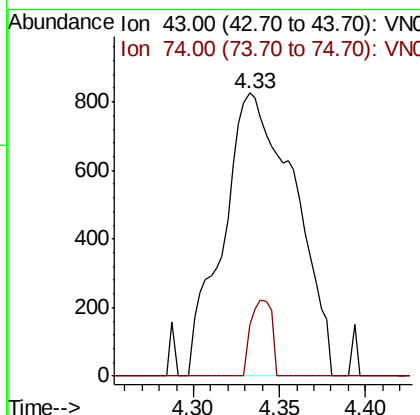
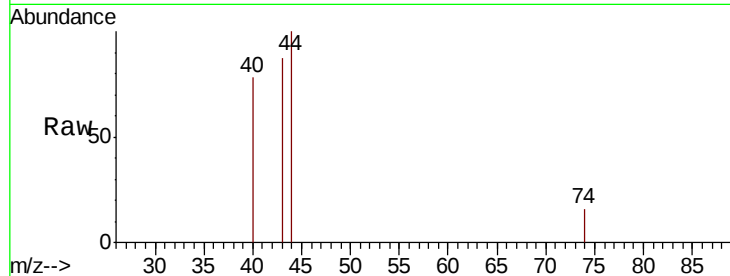




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN050648.D
Acq: 15 Aug 2018 12:20

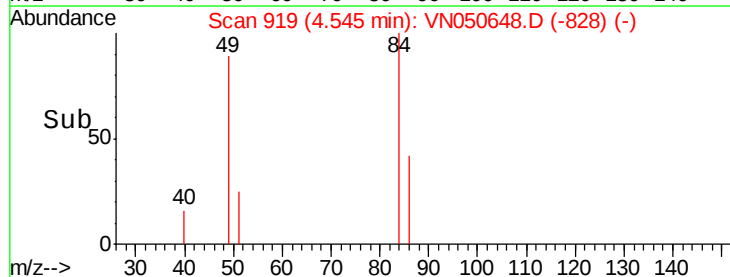
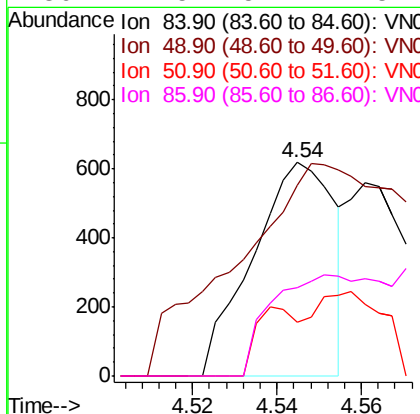
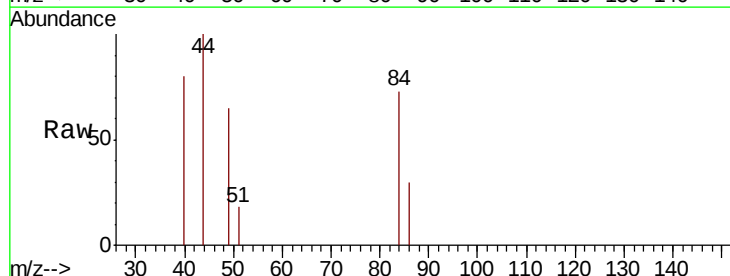
Instrument :
MSVOA_N
ClientSampleId :
947-MW-11(15)DL

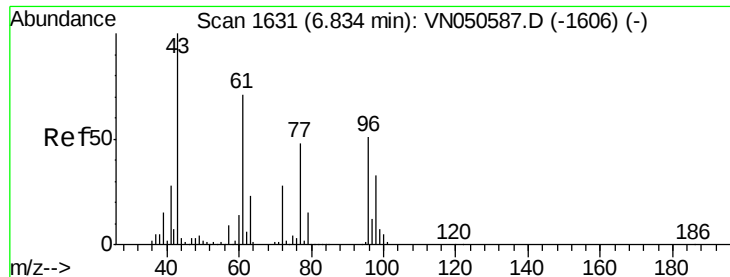
Tot Ion: 43 Resp: 2401
Ion Ratio Lower Upper
43 100
74 7.8 19.7 29.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.54 min Scan# 919
Delta R.T. -0.01 min
Lab File: VN050648.D
Acq: 15 Aug 2018 12:20

Tgt Ion: 84 Resp: 830
Ion Ratio Lower Upper
84 100
49 55.1 92.6 138.8#
51 25.2 28.6 43.0#
86 41.5 52.2 78.2#





#27

cis-1,2-Dichloroethene

Concen: 0.71 ug/l

RT: 6.84 min Scan# 1632

Delta R.T. 0.00 min

Lab File: VN050648.D

Acq: 15 Aug 2018 12:20

Instrument :

MSVOA_N

ClientSampleId :

947-MW-11(15)DL

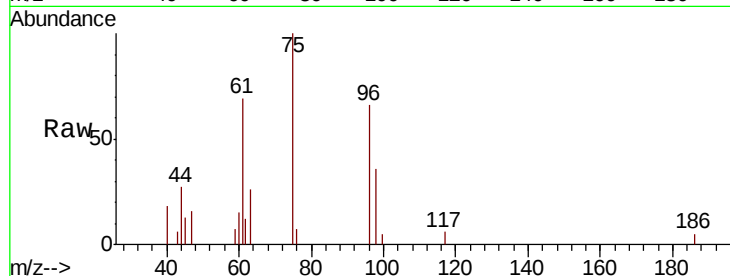
Tot Ion: 96 Resp: 5785

Ion Ratio Lower Upper

96 100

61 56.8 0.0 278.2

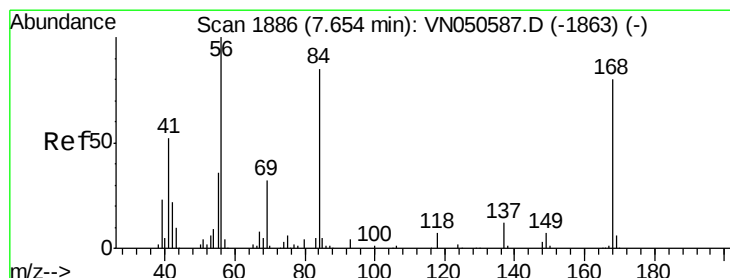
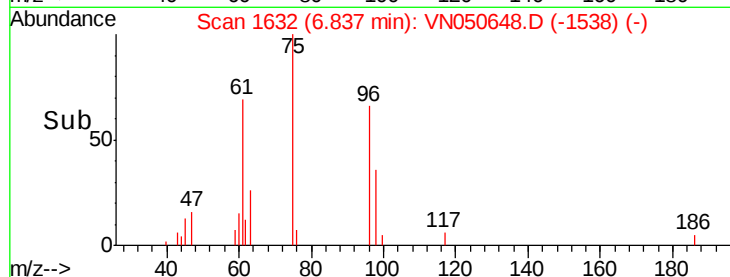
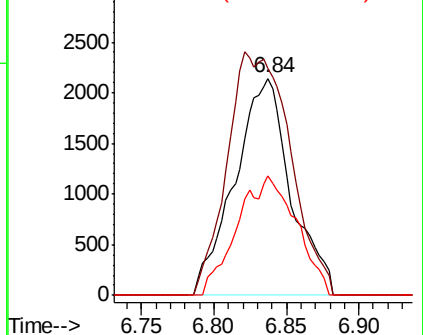
98 24.0 0.0 128.8



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#31

Cyclohexane

Concen: 0.60 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050648.D

Acq: 15 Aug 2018 12:20

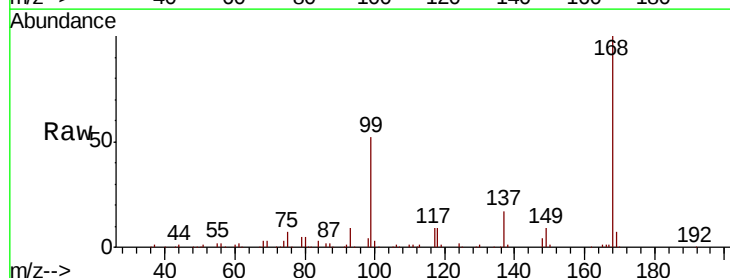
Tgt Ion: 56 Resp: 11159

Ion Ratio Lower Upper

56 100

69 187.7 25.8 38.6#

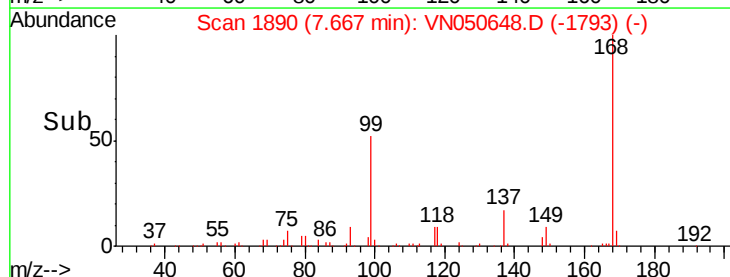
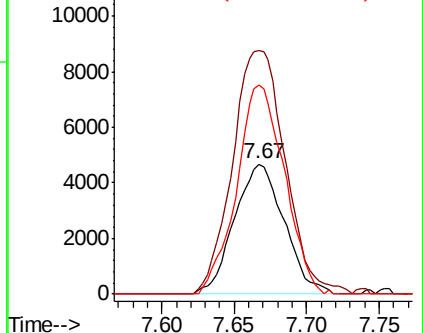
84 160.9 67.8 101.6#

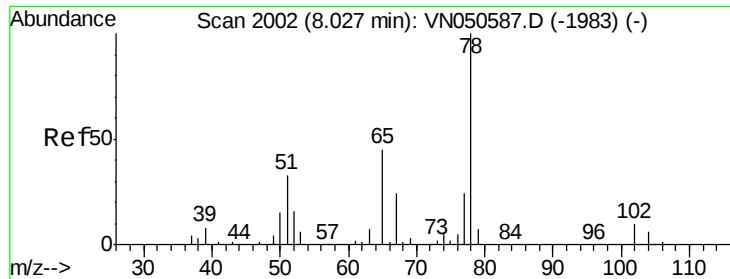


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 53.07 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050648.D

Acq: 15 Aug 2018 12:20

Instrument :

MSVOA_N

ClientSampleId :

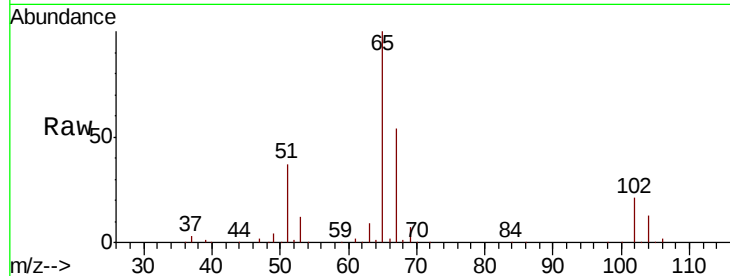
947-MW-11(15)DL

Tot Ion: 65 Resp: 416136

Ion Ratio Lower Upper

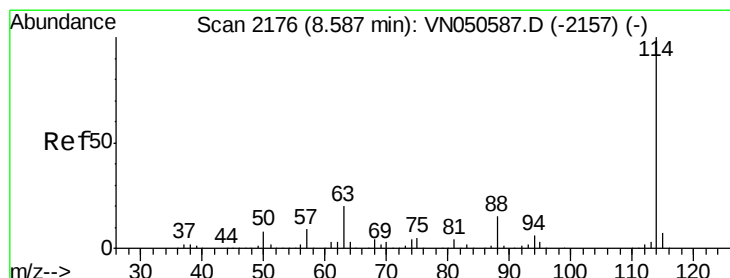
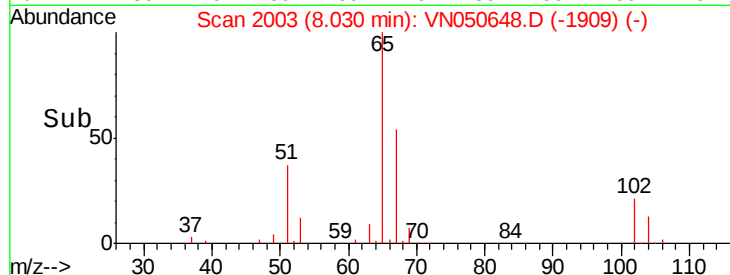
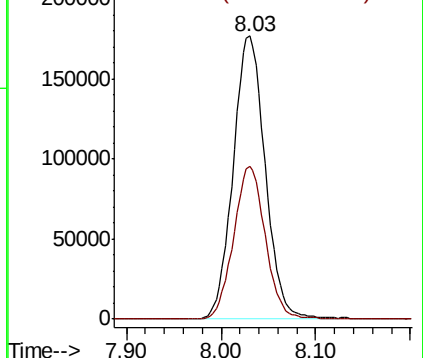
65 100

67 53.5 0.0 109.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN050648.D

Acq: 15 Aug 2018 12:20

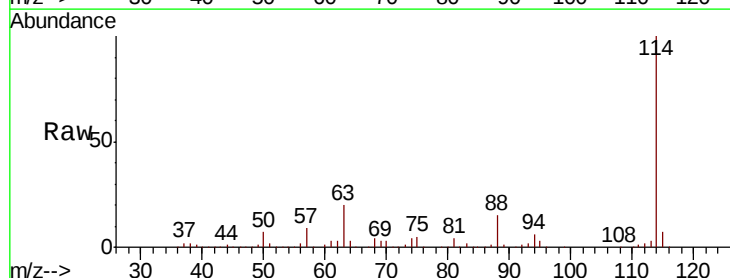
Tgt Ion: 114 Resp: 962955

Ion Ratio Lower Upper

114 100

63 19.9 0.0 40.0

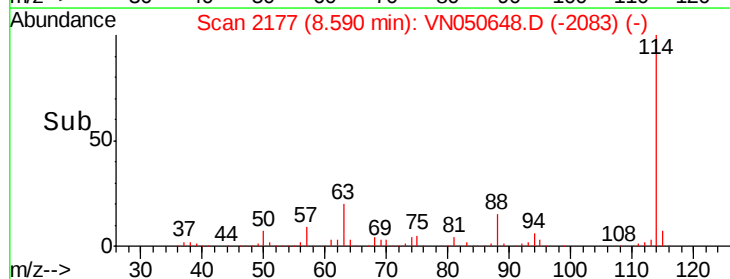
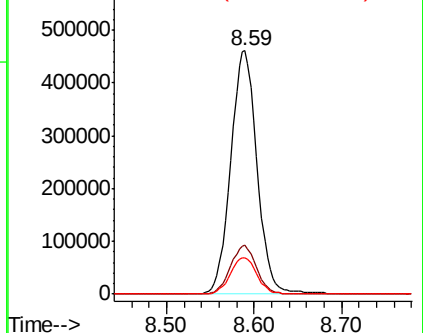
88 15.0 0.0 30.8

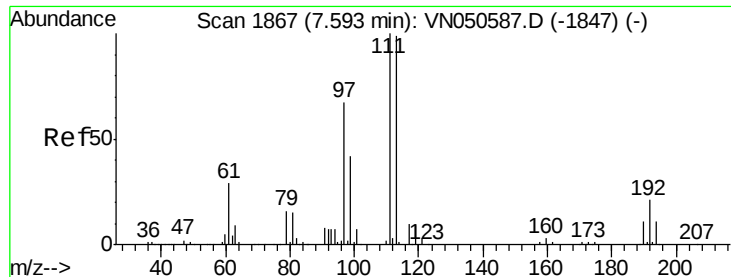


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

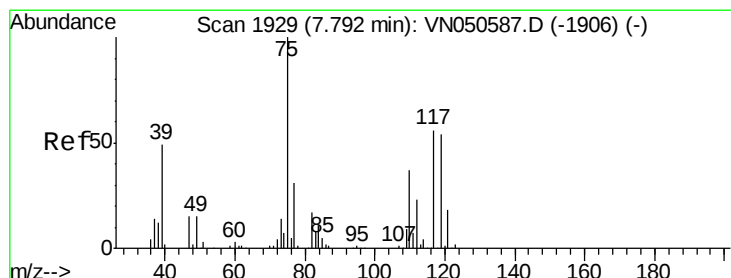
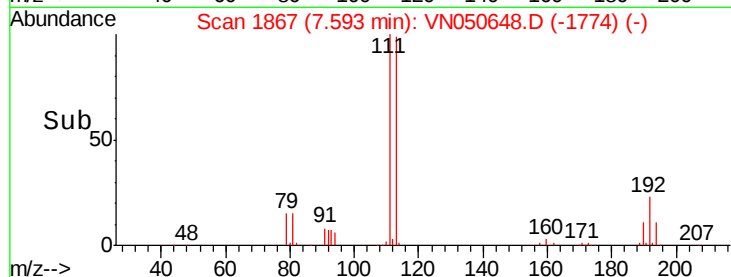
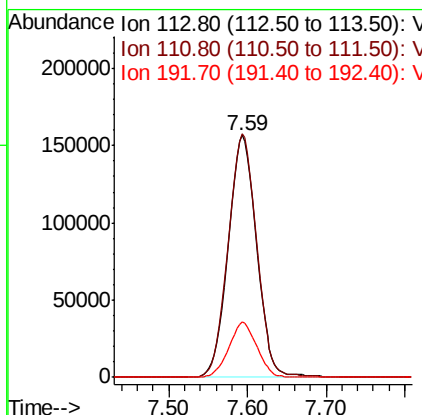
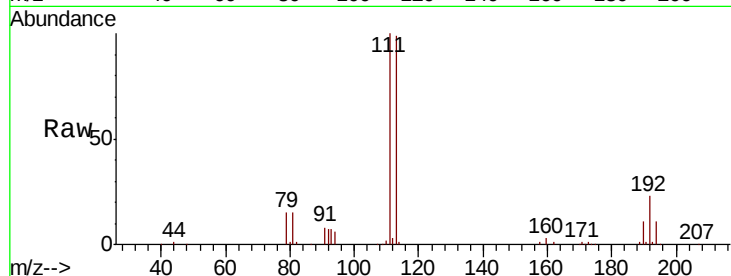




#35
 Dibromofluoromethane
 Concen: 50.88 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050648.D
 Acq: 15 Aug 2018 12:20

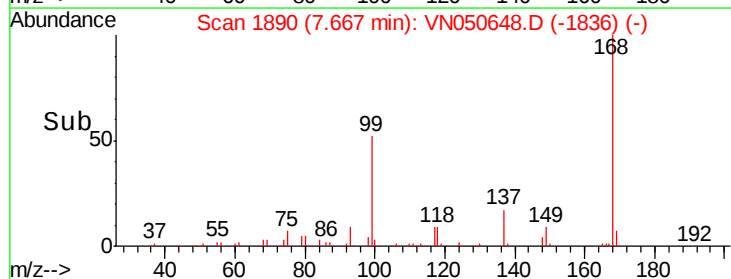
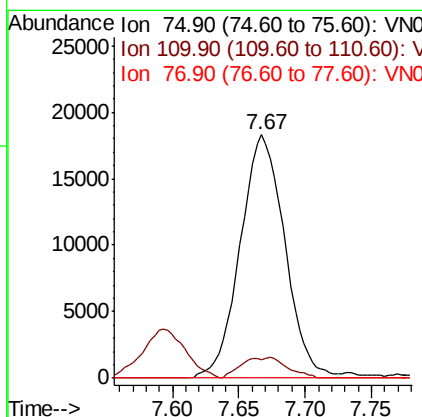
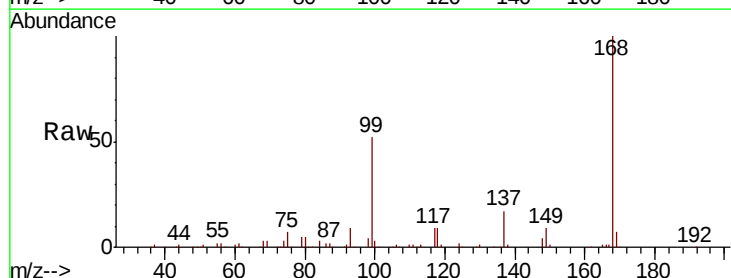
Instrument :
 MSVOA_N
 ClientSampleId :
 947-MW-11(15)DL

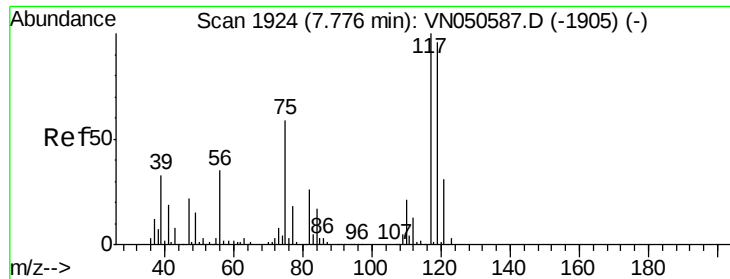
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.2	81.0	121.6
192	22.5	17.6	26.4



#36
 1,1-Dichloropropene
 Concen: 3.99 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050648.D
 Acq: 15 Aug 2018 12:20

Tgt Ion	Ratio	Lower	Upper
75	100		
110	4.3	18.3	54.9#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 5.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.11 min

Lab File: VN050648.D

Acq: 15 Aug 2018 12:20

Instrument :

MSVOA_N

ClientSampleId :

947-MW-11(15)DL

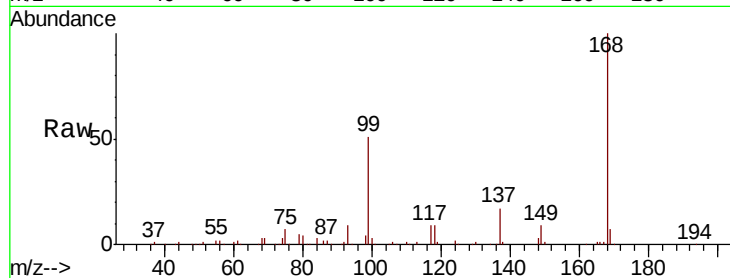
Tot Ion:117 Resp: 55587

Ion Ratio Lower Upper

117 100

119 6.2 76.6 115.0#

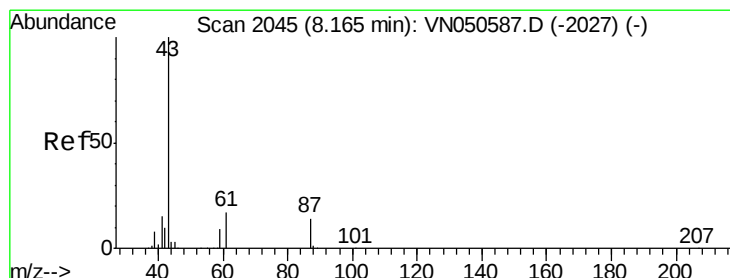
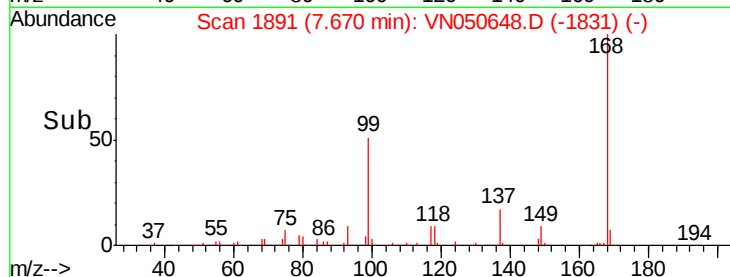
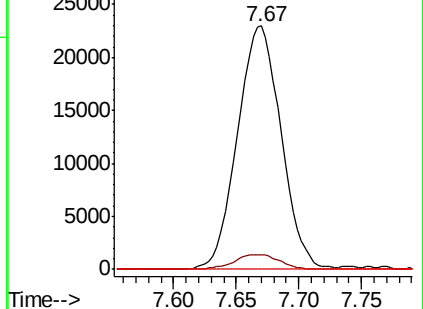
121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 0.28 ug/l

RT: 8.24 min Scan# 2068

Delta R.T. 0.07 min

Lab File: VN050648.D

Acq: 15 Aug 2018 12:20

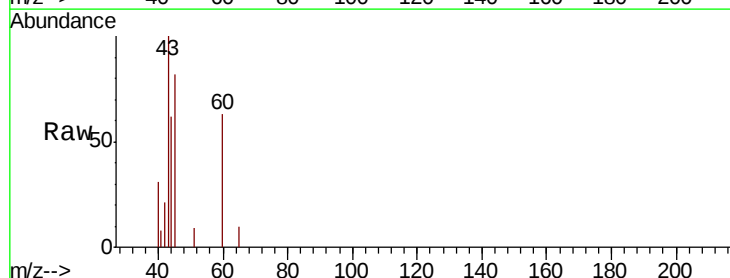
Tgt Ion: 43 Resp: 3143

Ion Ratio Lower Upper

43 100

61 0.0 16.2 24.2#

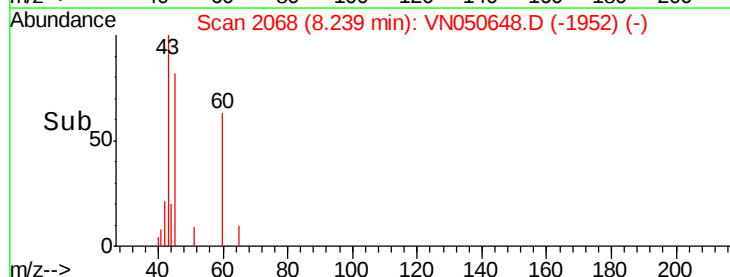
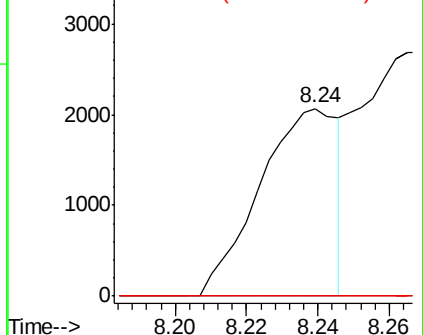
87 0.0 10.9 16.3#

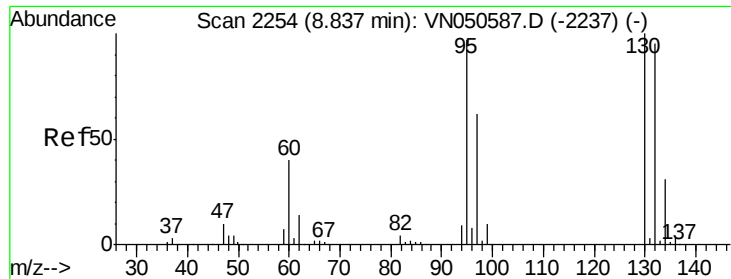


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#44

Trichloroethene

Concen: 1.35 ug/l

RT: 8.84 min Scan# 2255

Delta R.T. 0.00 min

Lab File: VN050648.D

Acq: 15 Aug 2018 12:20

Instrument :

MSVOA_N

ClientSampleId :

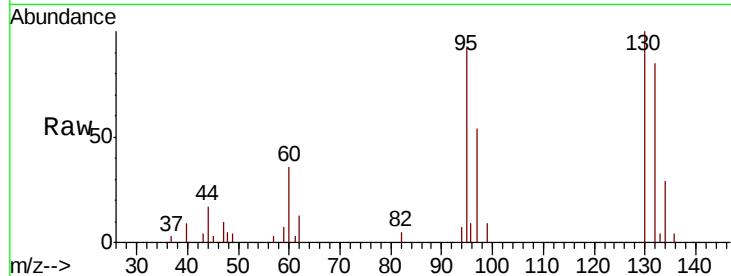
947-MW-11(15)DL

Tot Ion:130 Resp: 11822

Ion Ratio Lower Upper

130 100

95 91.8 0.0 193.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN

8.84

6000

5000

4000

3000

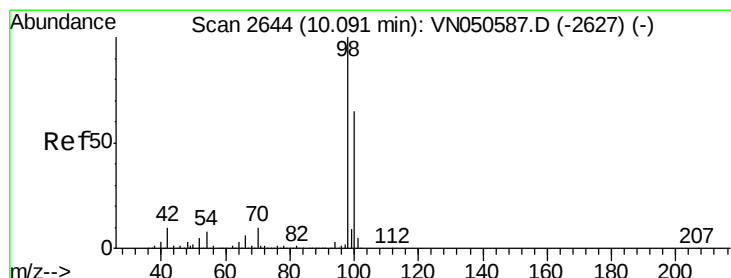
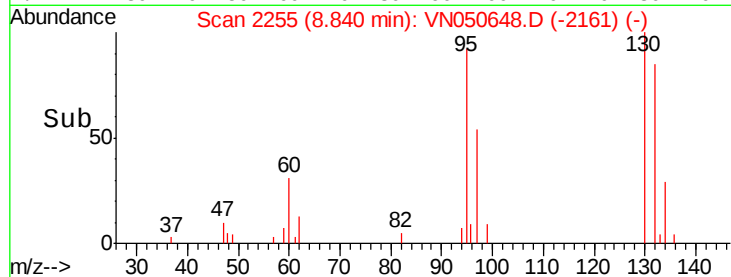
2000

1000

0

8.80 8.85 8.90

Time-->



#50

Toluene-d8

Concen: 47.94 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN050648.D

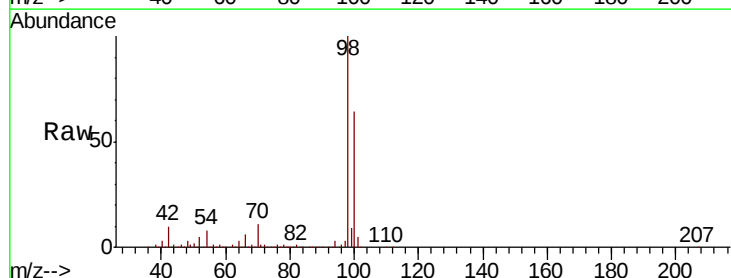
Acq: 15 Aug 2018 12:20

Tgt Ion: 98 Resp: 1387119

Ion Ratio Lower Upper

98 100

100 63.5 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

10.09

800000

600000

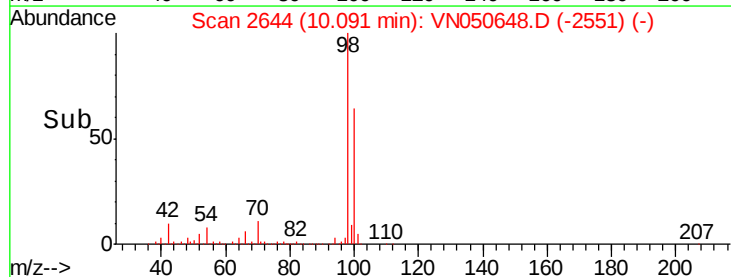
400000

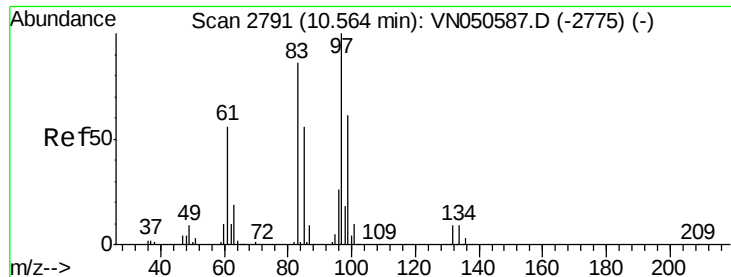
200000

0

10.00 10.10 10.20 10.30

Time-->

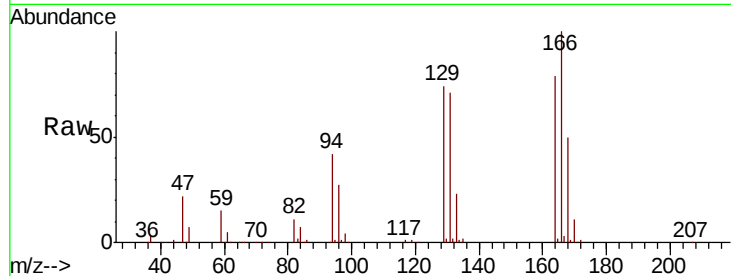




#55
 1,1,2-Trichloroethane
 Concen: 0.26 ug/l
 RT: 10.62 min Scan# 2810
 Delta R.T. 0.06 min
 Lab File: VN050648.D
 Acq: 15 Aug 2018 12:20

Instrument :
 MSVOA_N
 ClientSampleId :
 947-MW-11(15)DL

Tot Ion	97	83	85	99
Resp	1881			
Ratio	100	217.6	34.9	16.7
Lower		68.5	44.6	49.1
Upper		102.7#	66.8#	73.7#



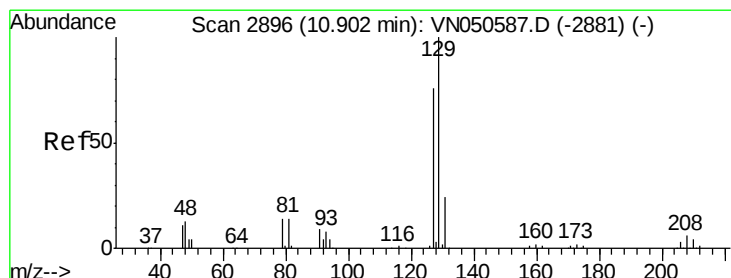
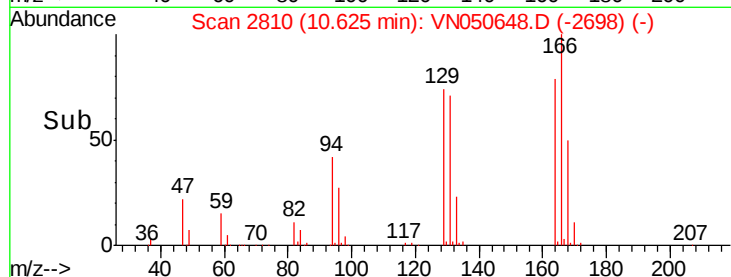
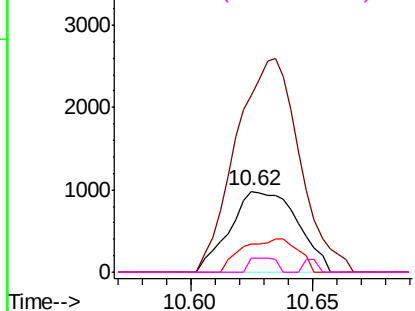
Abundance

Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

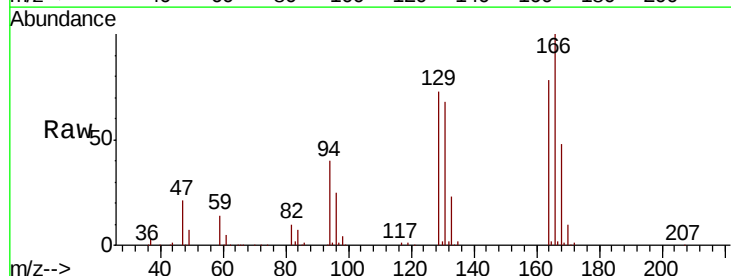
Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#60
 Dibromochloromethane
 Concen: 24.42 ug/l
 RT: 10.63 min Scan# 2812
 Delta R.T. -0.27 min
 Lab File: VN050648.D
 Acq: 15 Aug 2018 12:20

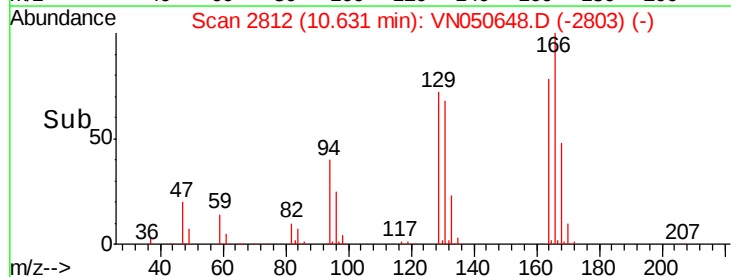
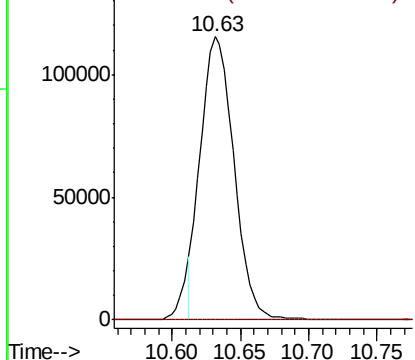
Tgt Ion	129	127
Resp	196004	
Ratio	100	0.0
Lower		38.9
Upper		116.7#

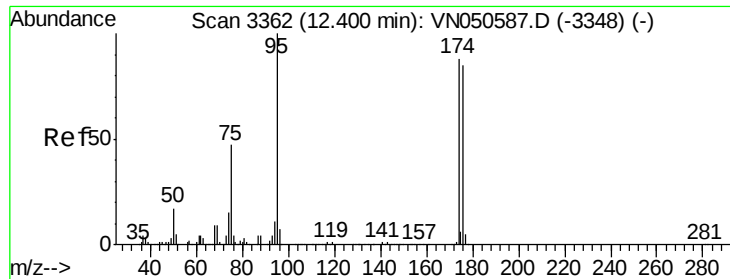


Abundance

Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 39.84 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050648.D

Acq: 15 Aug 2018 12:20

Instrument :

MSVOA_N

ClientSampleId :

947-MW-11(15)DL

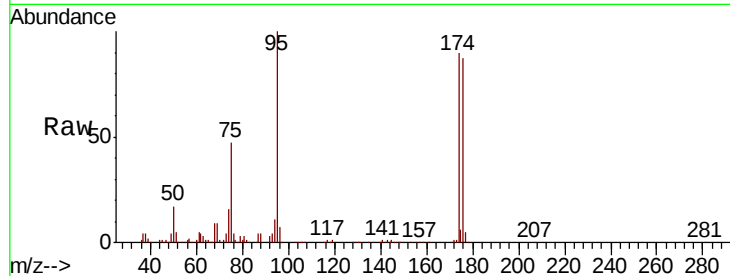
Tot Ion: 95 Resp: 380860

Ion Ratio Lower Upper

95 100

174 90.5 0.0 177.8

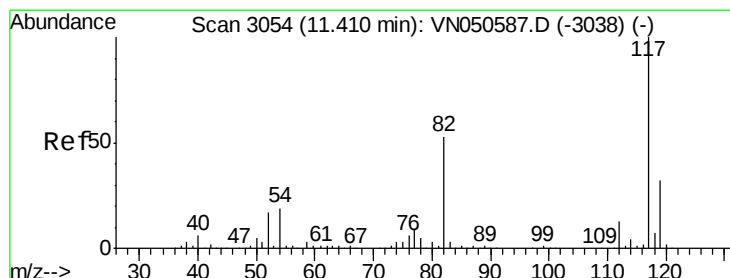
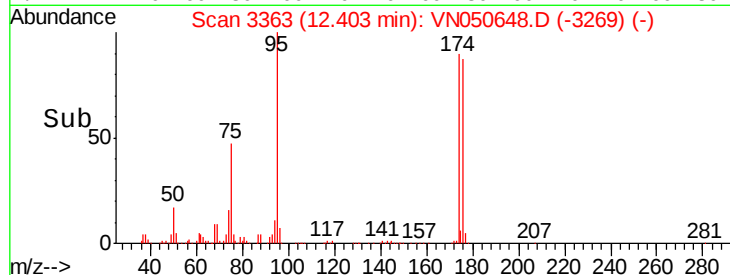
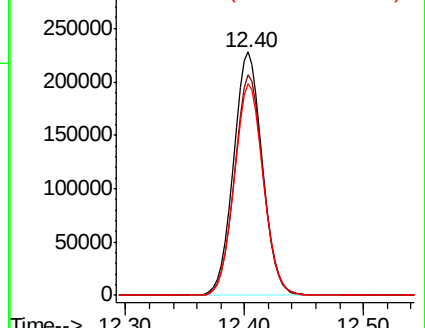
176 87.7 0.0 175.0



Abundance Ion 94.90 (94.60 to 95.60): VN050587.D (-3348) (-)

Ion 173.80 (173.50 to 174.50): VN050587.D (-3348) (-)

Ion 175.80 (175.50 to 176.50): VN050587.D (-3348) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN050648.D

Acq: 15 Aug 2018 12:20

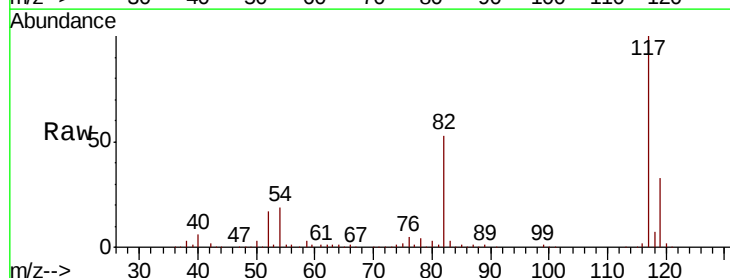
Tgt Ion: 117 Resp: 866944

Ion Ratio Lower Upper

117 100

82 53.3 42.4 63.6

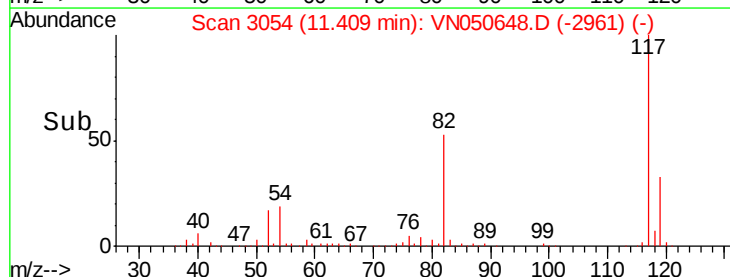
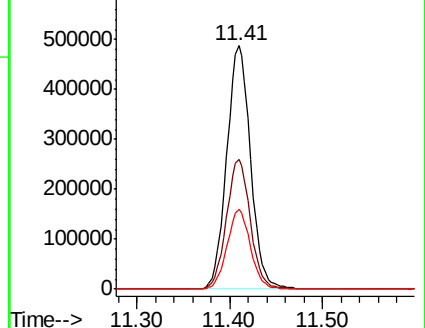
119 32.5 25.8 38.8

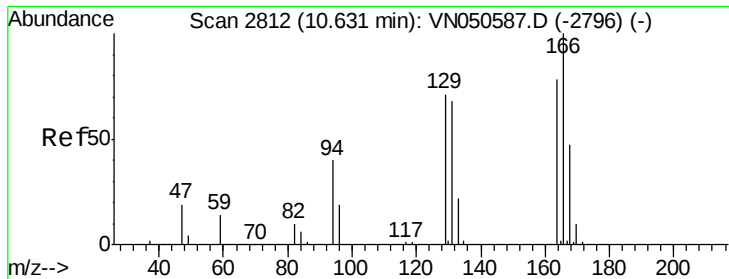


Abundance Ion 116.90 (116.60 to 117.60): VN050587.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN050587.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN050587.D (-3038) (-)





#64

Tetrachloroethene

Concen: 28.12 ug/l

RT: 10.63 min Scan# 2812

Delta R.T. -0.00 min

Lab File: VN050648.D

Acq: 15 Aug 2018 12:20

Instrument :

MSVOA_N

ClientSampleId :

947-MW-11(15)DL

Tot Ion:164 Resp: 226424

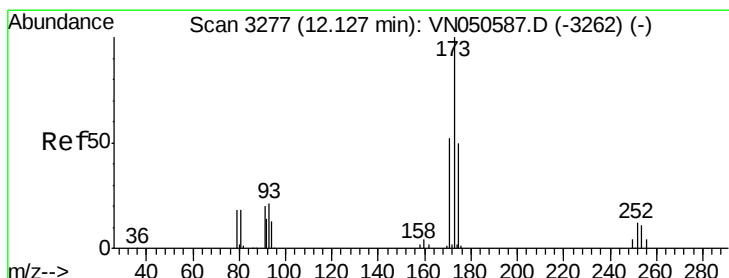
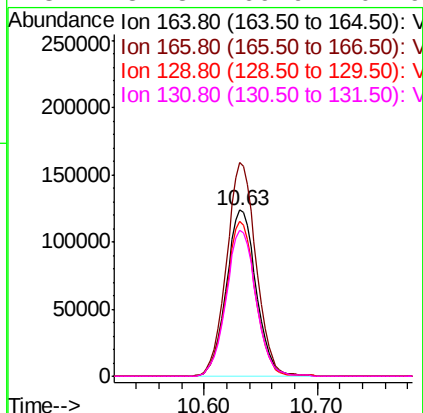
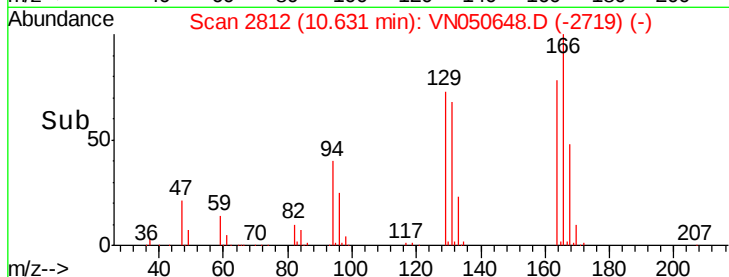
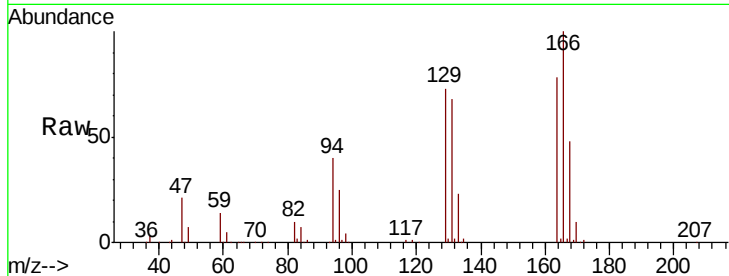
Ion Ratio Lower Upper

164 100

166 128.7 102.1 153.1

129 93.4 72.7 109.1

131 87.8 69.9 104.9



#71

Bromoform

Concen: 0.37 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN050648.D

Acq: 15 Aug 2018 12:20

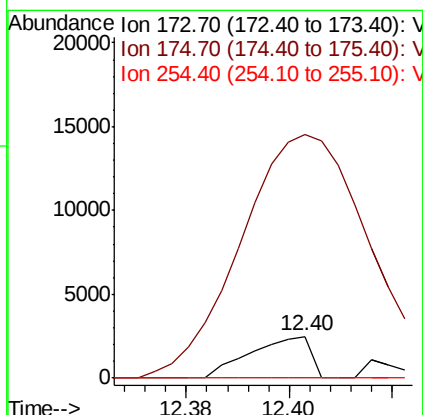
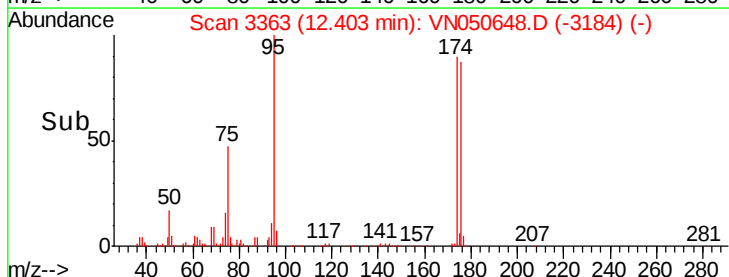
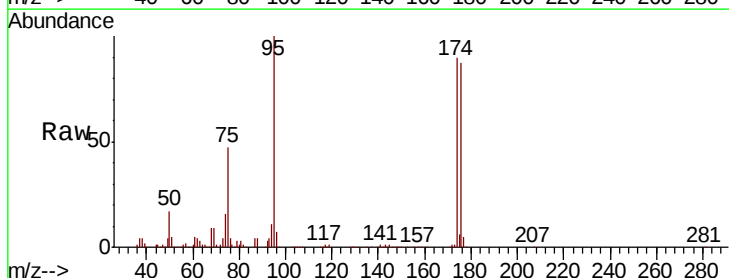
Tgt Ion:173 Resp: 2008

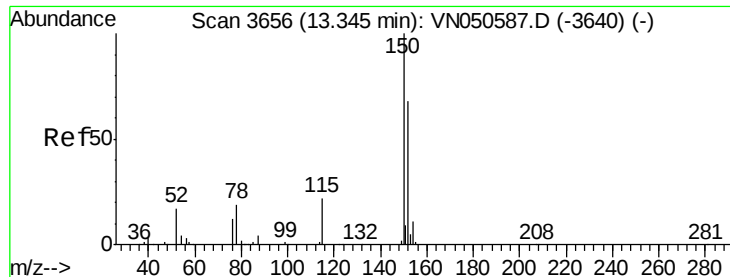
Ion Ratio Lower Upper

173 100

175 1041.2 24.4 73.2#

254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN050648.D

Acq: 15 Aug 2018 12:20

Instrument :

MSVOA_N

ClientSampleId :

947-MW-11(15)DL

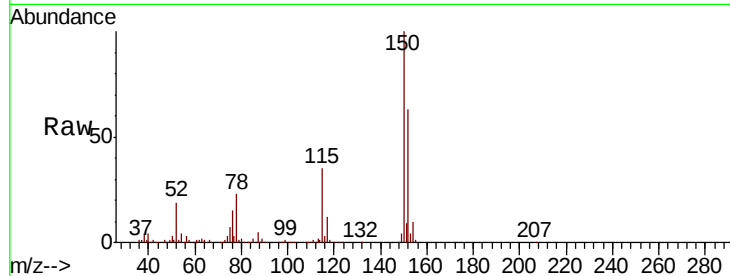
Tot Ion:152 Resp: 305433

Ion Ratio Lower Upper

152 100

115 56.3 28.1 84.2

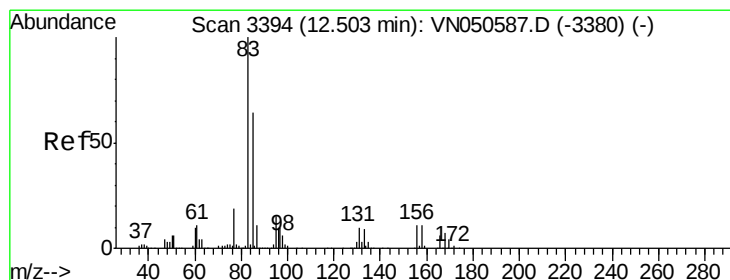
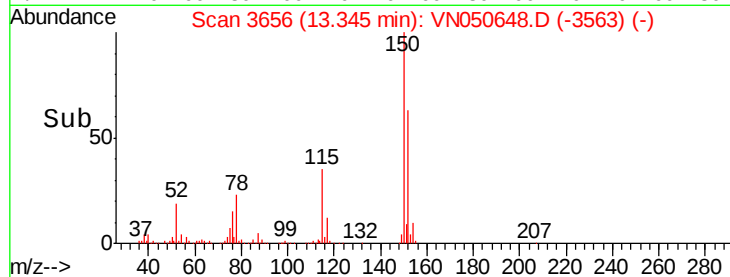
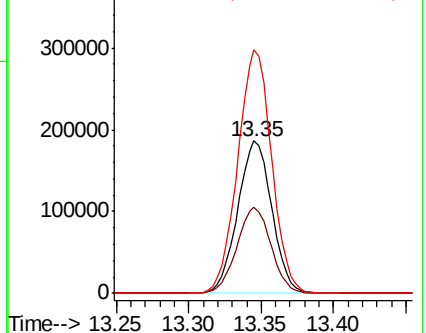
150 158.8 0.0 347.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3363

Delta R.T. -0.10 min

Lab File: VN050648.D

Acq: 15 Aug 2018 12:20

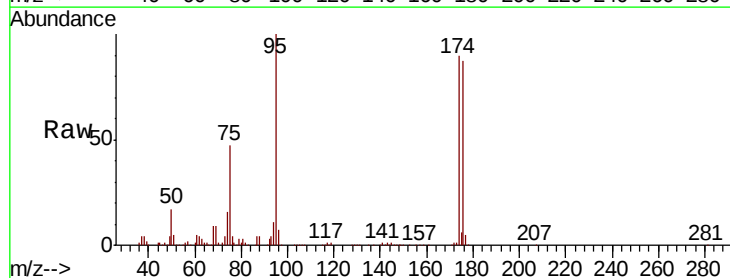
Tgt Ion: 83 Resp: 31

Ion Ratio Lower Upper

83 100

131 1154.8 5.3 15.9#

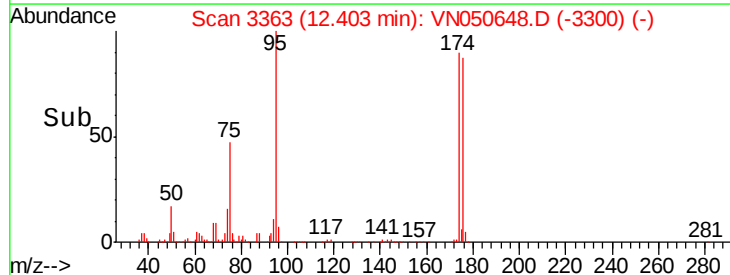
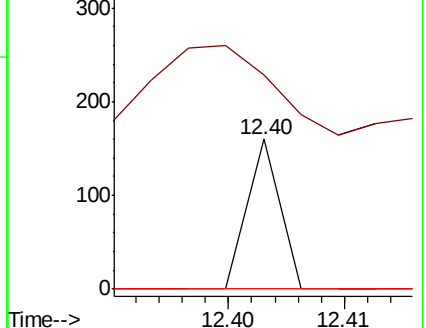
85 0.0 32.1 96.5#

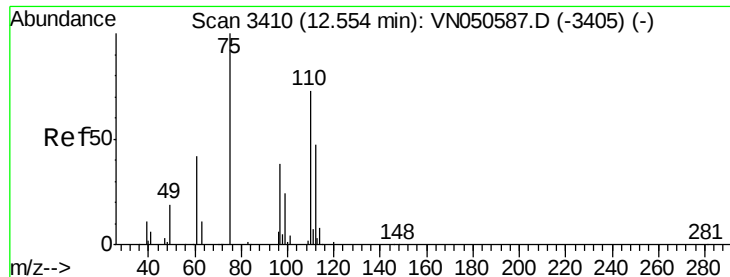


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 36.96 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050648.D

Acq: 15 Aug 2018 12:20

Instrument :

MSVOA_N

ClientSampleId :

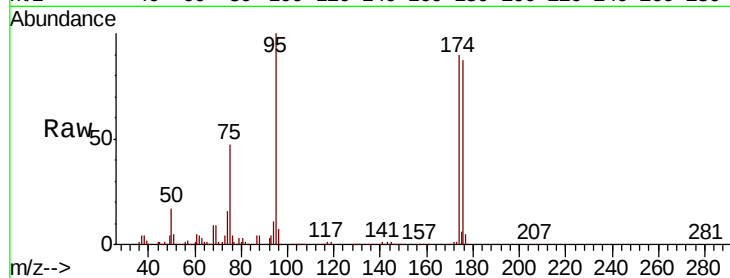
947-MW-11(15)DL

Tot Ion: 75 Resp: 183726

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

120000

100000

80000

60000

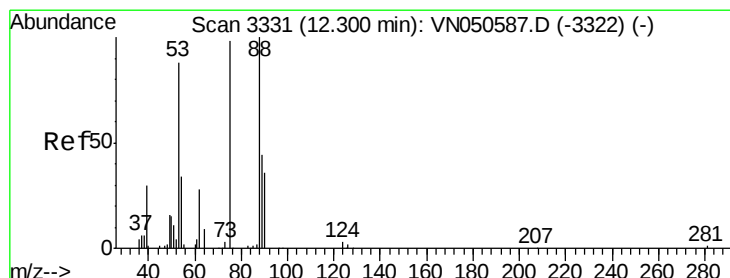
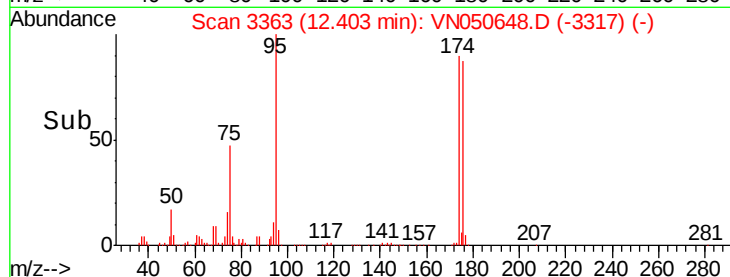
40000

20000

0

12.35 12.40 12.45 12.50

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 133.73 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050648.D

Acq: 15 Aug 2018 12:20

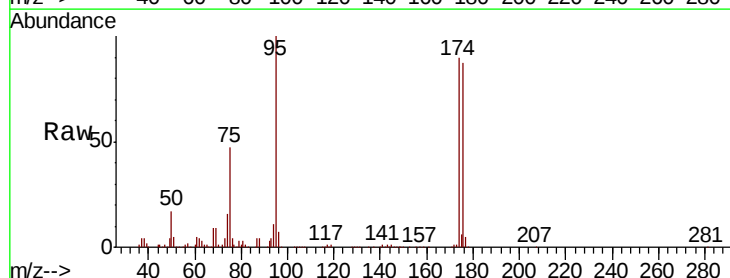
Tgt Ion: 75 Resp: 183726

Ion Ratio Lower Upper

75 100

53 0.1 72.2 108.2#

89 0.0 36.3 54.5#



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

150000

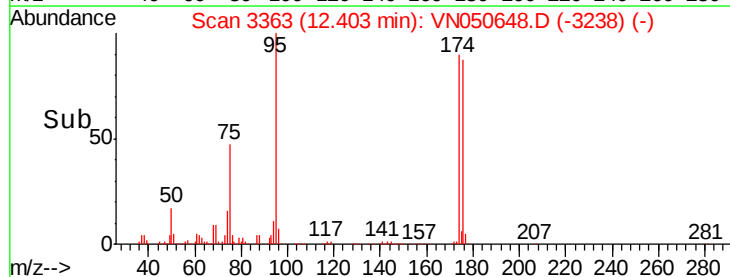
100000

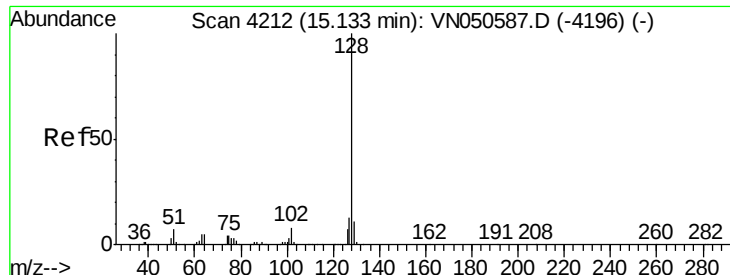
50000

0

12.35 12.40 12.45 12.50

Time-->





#95
Naphthalene
Concen: 3.88 ug/l
RT: 15.14 min Scan# 4214
Delta R.T. 0.01 min
Lab File: VN050648.D
Acq: 15 Aug 2018 12:20

Instrument :
MSVOA_N
ClientSampleId :
947-MW-11(15)DL

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	8.5	12.7#

