

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081518\
 Data File : VN050655.D
 Acq On : 15 Aug 2018 15:13
 Operator : MD\SY
 Sample : J4465-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 946-MW-07(22.5)

Quant Time: Aug 16 01:29:37 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	616801	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	962506	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	847199	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	277299	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	415155	53.40	ug/l	0.00
Spiked Amount			Recovery	=	106.80%	
35) Dibromofluoromethane	7.59	113	387505	50.43	ug/l	0.00
Spiked Amount			Recovery	=	100.86%	
50) Toluene-d8	10.09	98	1381828	47.78	ug/l	0.00
Spiked Amount			Recovery	=	95.56%	
62) 4-Bromofluorobenzene	12.40	95	362287	37.92	ug/l	0.00
Spiked Amount			Recovery	=	75.84%	

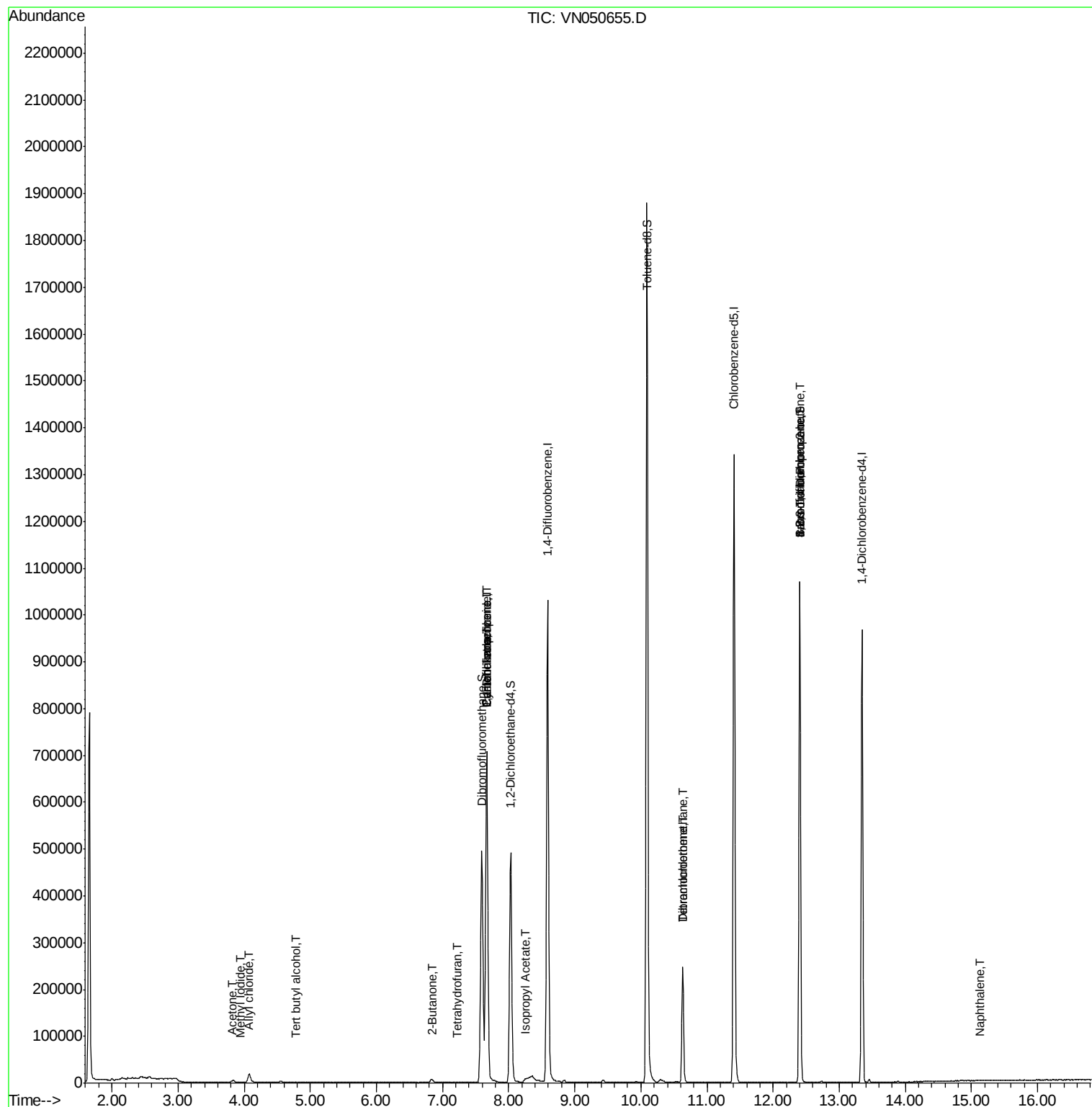
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2594	Below Cal	#	82
5) Bromomethane	2.57	94	2615	Below Cal	#	95
6) Chloroethane	2.70	64	102	Below Cal	#	43
10) Methyl Iodide	3.95	142	480	7.03	ug/l	91
11) Tert butyl alcohol	4.78	59	174	0.41	ug/l	72
14) Allyl chloride	4.08	41	3553	0.34	ug/l	60
16) Acetone	3.83	43	9631	3.53	ug/l	95
18) Methyl Acetate	4.34	43	2235	Below Cal	#	78
20) Methylene Chloride	4.55	84	1359	Below Cal	#	67
25) 2-Butanone	6.85	43	1373	0.43	ug/l	48
29) Tetrahydrofuran	7.22	42	619	0.37	ug/l	41
31) Cyclohexane	7.67	56	11247	0.61	ug/l	1
36) 1,1-Dichloropropene	7.67	75	42478	3.96	ug/l	48
38) Carbon Tetrachloride	7.67	117	54130	4.87	ug/l	17
43) Isopropyl Acetate	8.25	43	4123	0.37	ug/l	60
60) Dibromochloromethane	10.63	129	52387	6.53	ug/l	10
64) Tetrachloroethene	10.63	164	62342	7.92	ug/l	98
71) Bromoform	12.40	173	3670	0.70	ug/l	1
75) 1,1,2,2-Tetrachloroethane	12.40	83	215	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	171708	38.08	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	171708	137.66	ug/l	13
95) Naphthalene	15.14	128	94	3.87	ug/l	69

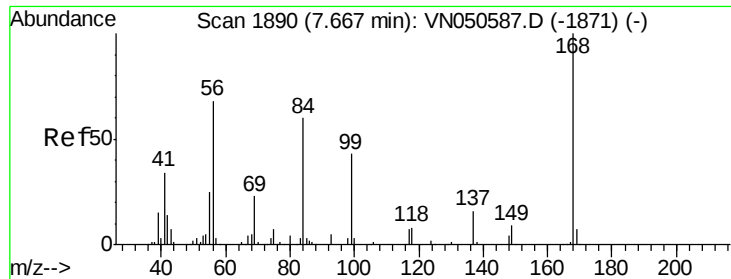
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN050655.D

Acq: 15 Aug 2018 15:13

Instrument :

MSVOA_N

ClientSampleId :

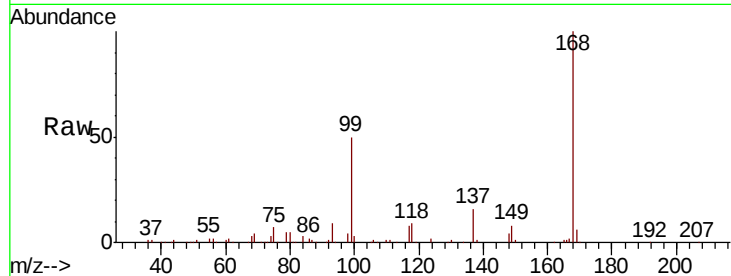
946-MW-07(22.5)

Tot Ion:168 Resp: 616801

Ion Ratio Lower Upper

168 100

99 49.6 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

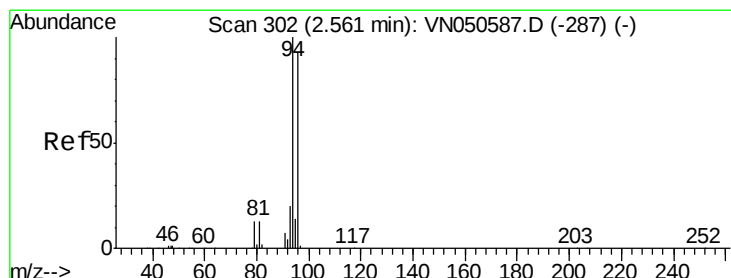
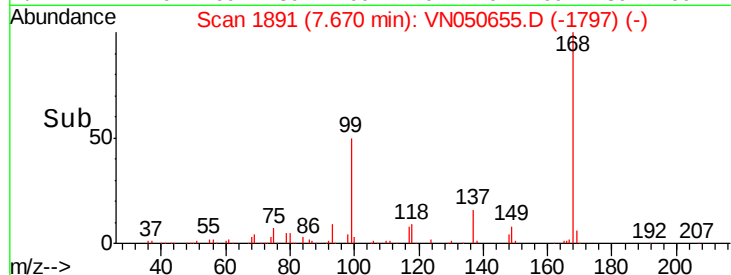
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN050655.D

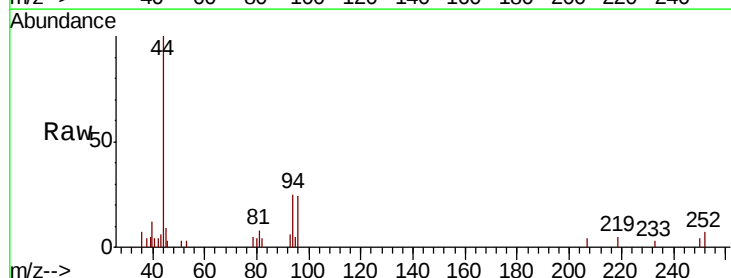
Acq: 15 Aug 2018 15:13

Tgt Ion: 94 Resp: 2615

Ion Ratio Lower Upper

94 100

96 97.5 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.57

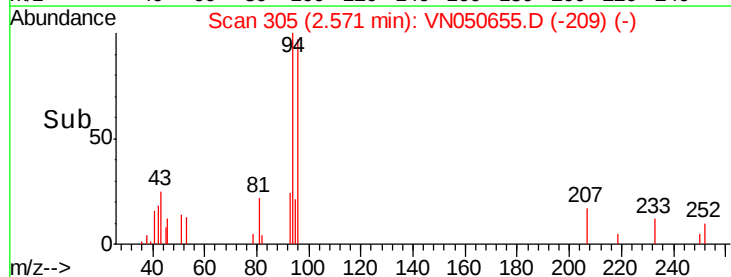
1500

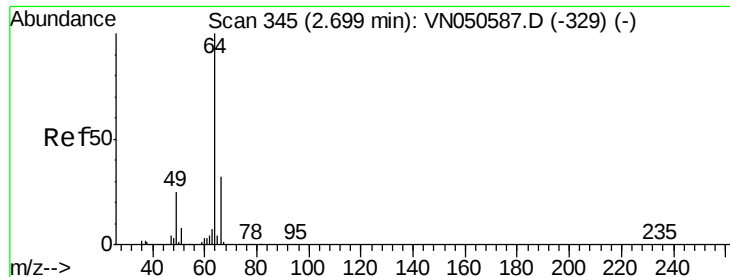
1000

500

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 2.70 min Scan# 344

Delta R.T. -0.00 min

Lab File: VN050655.D

Acq: 15 Aug 2018 15:13

Instrument :

MSVOA_N

ClientSampleId :

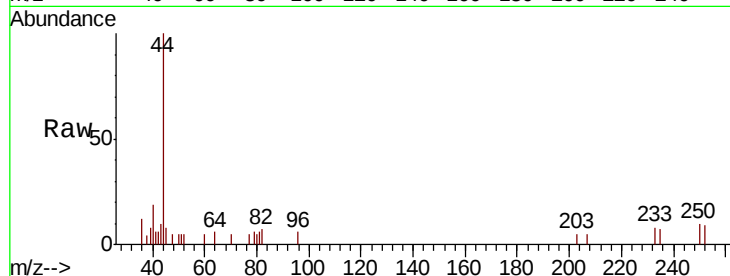
946-MW-07(22.5)

Tot Ion: 64 Resp: 102

Ion Ratio Lower Upper

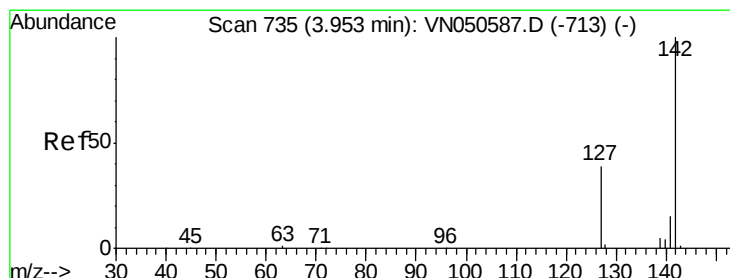
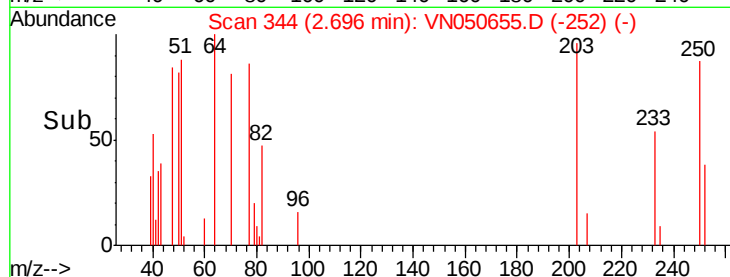
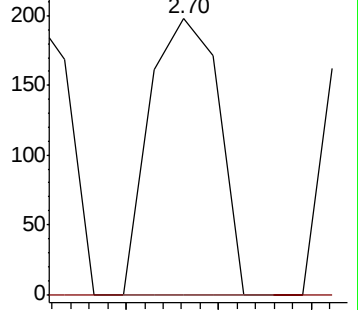
64 100

66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN050587.D (-329) (-)

Ion 65.90 (65.60 to 66.60): VN050587.D (-329) (-)



#10

Methyl Iodide

Concen: 7.03 ug/l

RT: 3.95 min Scan# 735

Delta R.T. 0.00 min

Lab File: VN050655.D

Acq: 15 Aug 2018 15:13

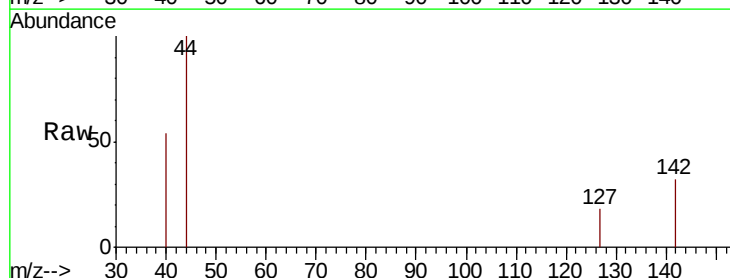
Tgt Ion: 142 Resp: 480

Ion Ratio Lower Upper

142 100

127 40.6 32.6 49.0

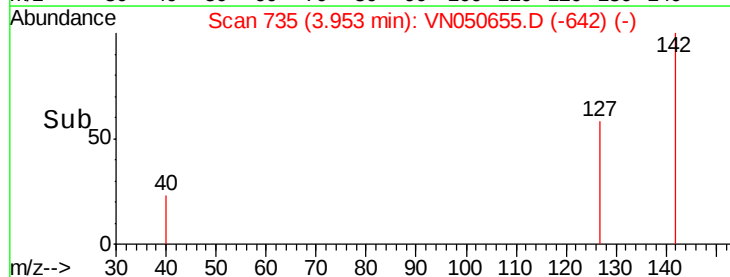
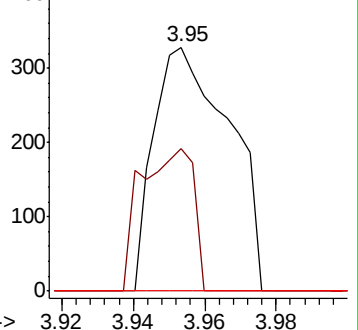
141 0.0 11.5 17.3#

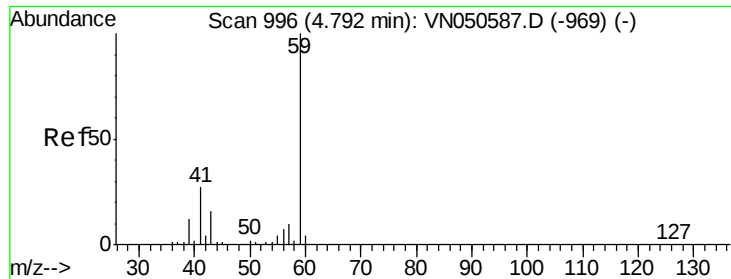


Abundance Ion 141.80 (141.50 to 142.50): VN050587.D (-713) (-)

Ion 126.80 (126.50 to 127.50): VN050587.D (-713) (-)

Ion 140.80 (140.50 to 141.50): VN050587.D (-713) (-)





#11

Tert butyl alcohol

Concen: 0.41 ug/l

RT: 4.78 min Scan# 993

Delta R.T. -0.01 min

Lab File: VN050655.D

Acq: 15 Aug 2018 15:13

Instrument :

MSVOA_N

ClientSampleId :

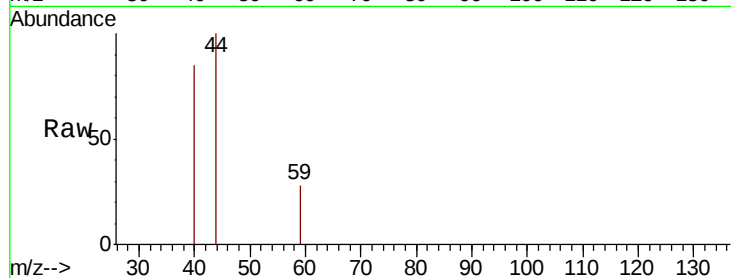
946-MW-07(22.5)

Tot Ion: 59 Resp: 174

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.78

250

200

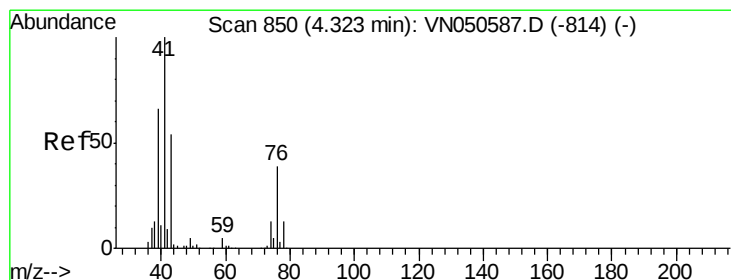
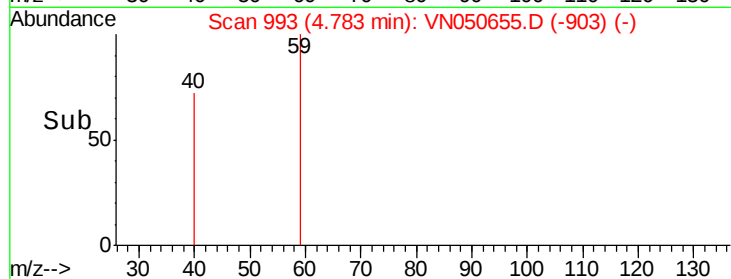
150

100

50

0

Time-->



#14

Allyl chloride

Concen: 0.34 ug/l

RT: 4.08 min Scan# 774

Delta R.T. -0.24 min

Lab File: VN050655.D

Acq: 15 Aug 2018 15:13

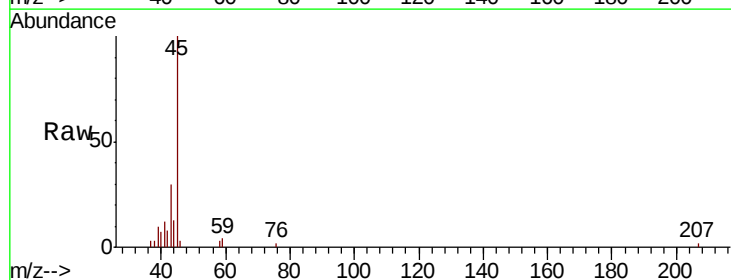
Tgt Ion: 41 Resp: 3553

Ion Ratio Lower Upper

41 100

39 86.2 51.4 77.0#

76 0.0 29.4 44.0#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0

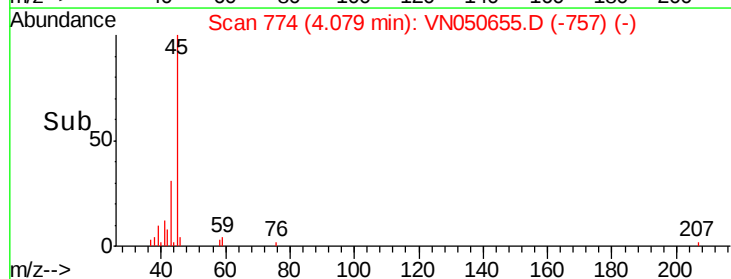
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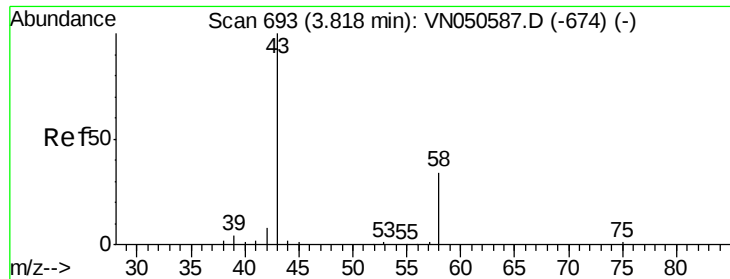
1000

500

0

Time-->





#16

Acetone

Concen: 3.53 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN050655.D

Acq: 15 Aug 2018 15:13

Instrument :

MSVOA_N

ClientSampleId :

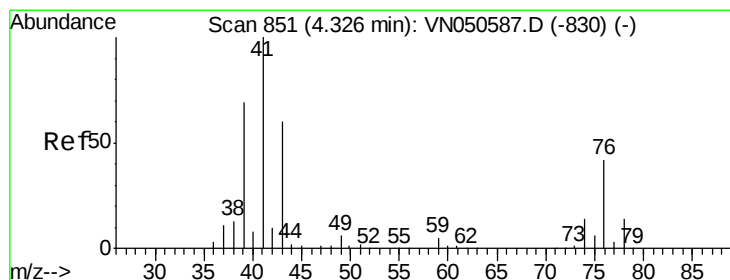
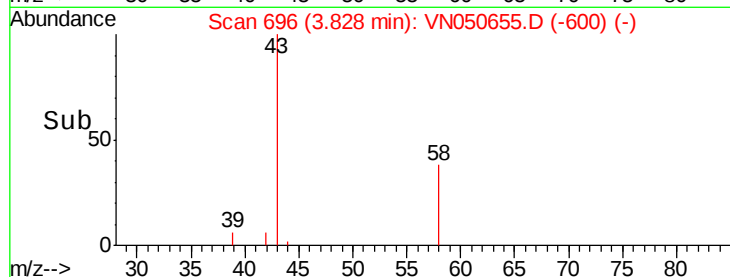
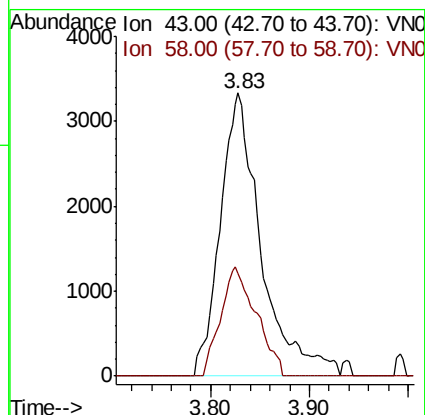
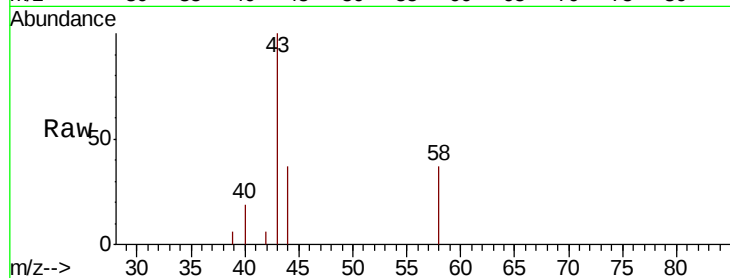
946-MW-07(22.5)

Tot Ion: 43 Resp: 9631

Ion Ratio Lower Upper

43 100

58 36.5 27.1 40.7



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 855

Delta R.T. 0.01 min

Lab File: VN050655.D

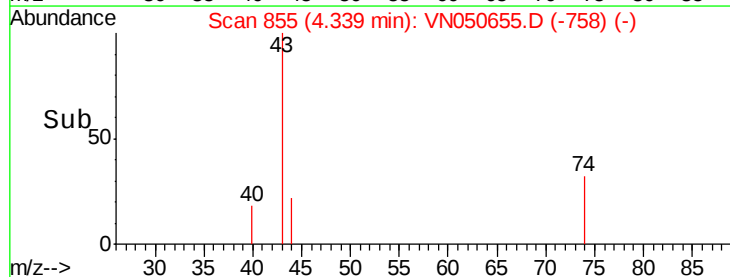
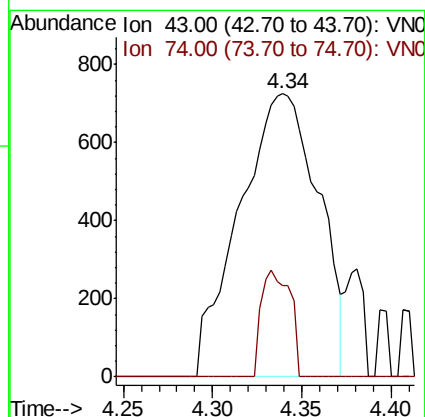
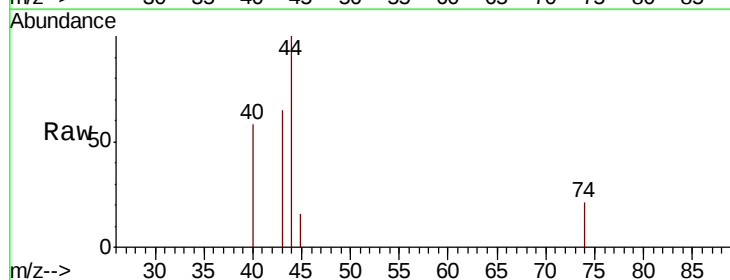
Acq: 15 Aug 2018 15:13

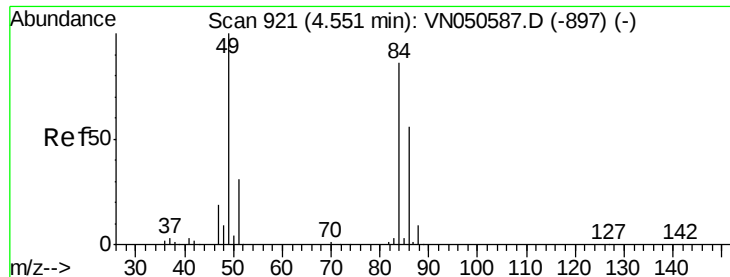
Tgt Ion: 43 Resp: 2235

Ion Ratio Lower Upper

43 100

74 13.8 19.7 29.5#

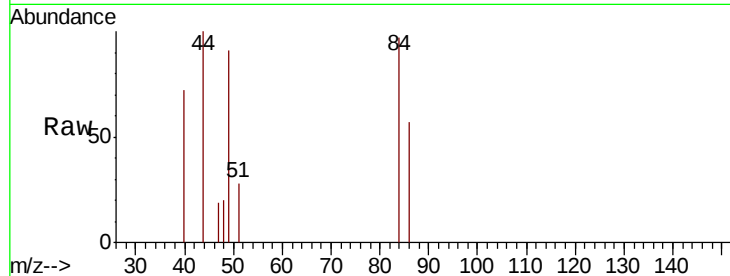




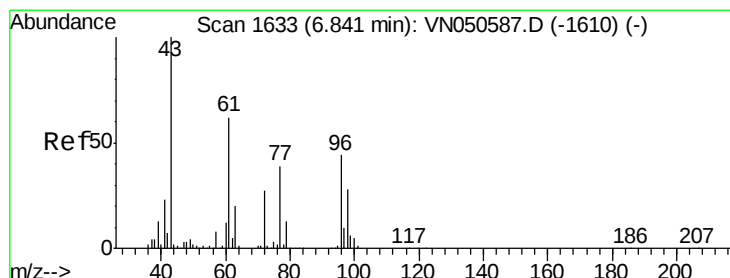
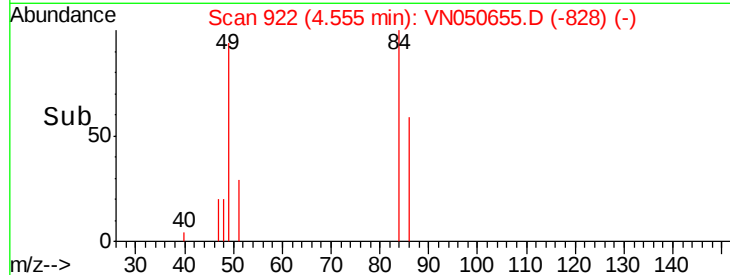
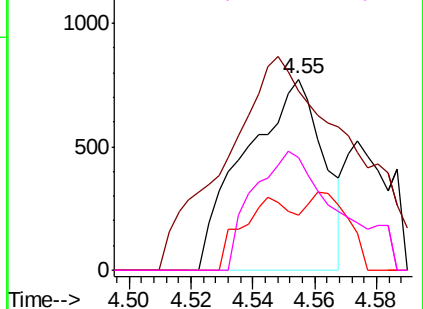
#20
Methvlene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050655.D
Acq: 15 Aug 2018 15:13

Instrument :
MSVOA_N
ClientSampleId :
946-MW-07(22.5)

Tot Ion: 84 Resp: 1359
Ion Ratio Lower Upper
84 100
49 57.2 92.6 138.8#
51 29.0 28.6 43.0
86 58.7 52.2 78.2

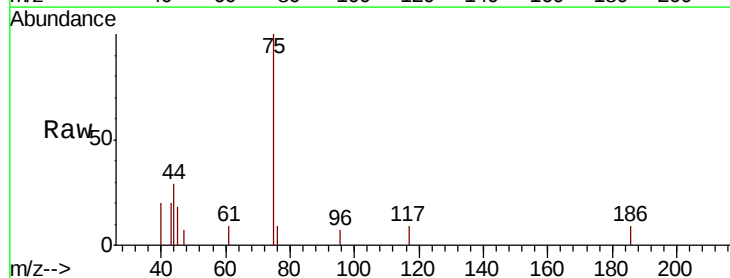


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

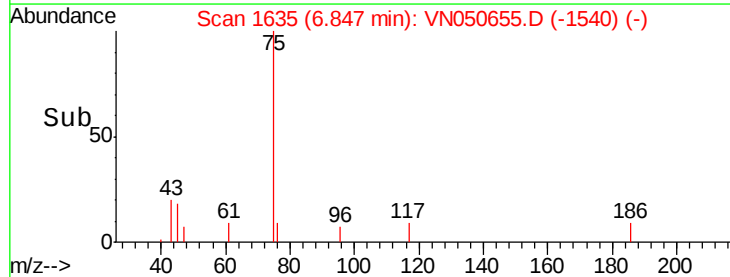
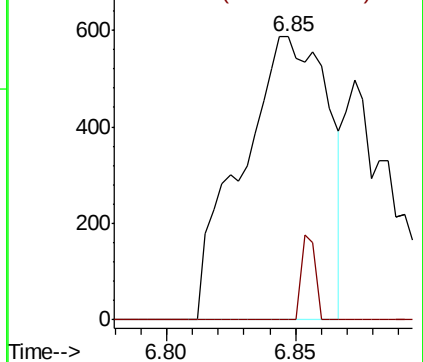


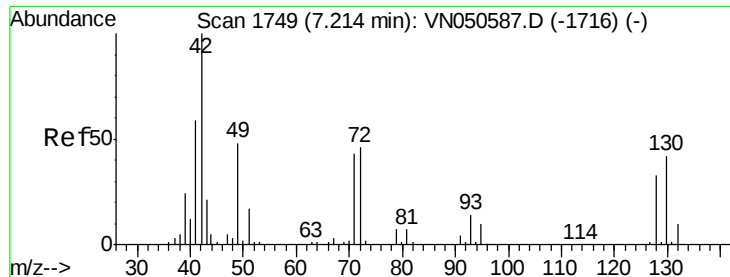
#25
2-Butanone
Concen: 0.43 ug/l
RT: 6.85 min Scan# 1635
Delta R.T. 0.01 min
Lab File: VN050655.D
Acq: 15 Aug 2018 15:13

Tgt Ion: 43 Resp: 1373
Ion Ratio Lower Upper
43 100
72 0.0 21.8 32.6#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 72.00 (71.70 to 72.70): VNO





#29

Tetrahydrofuran

Concen: 0.37 ug/l

RT: 7.22 min Scan# 1751

Delta R.T. 0.01 min

Lab File: VN050655.D

Acq: 15 Aug 2018 15:13

Instrument :

MSVOA_N

ClientSampleId :

946-MW-07(22.5)

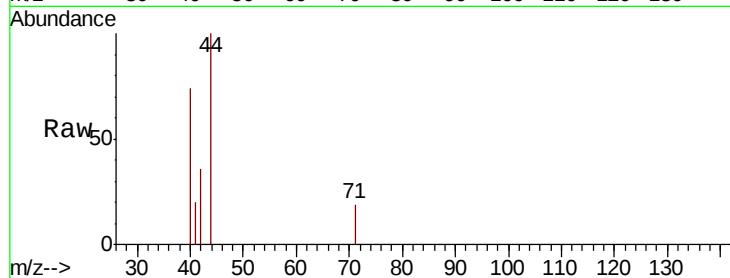
Tot Ion: 42 Resp: 619

Ion Ratio Lower Upper

42 100

72 0.0 35.8 53.6#

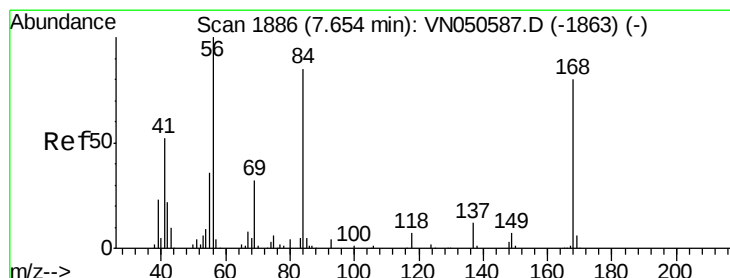
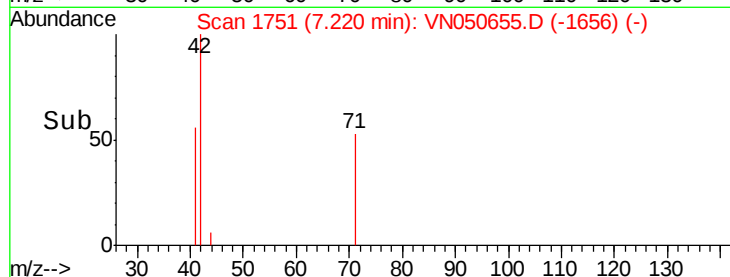
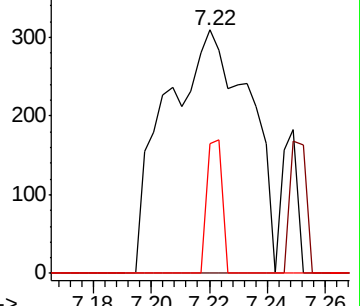
71 10.5 33.4 50.0#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.61 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.02 min

Lab File: VN050655.D

Acq: 15 Aug 2018 15:13

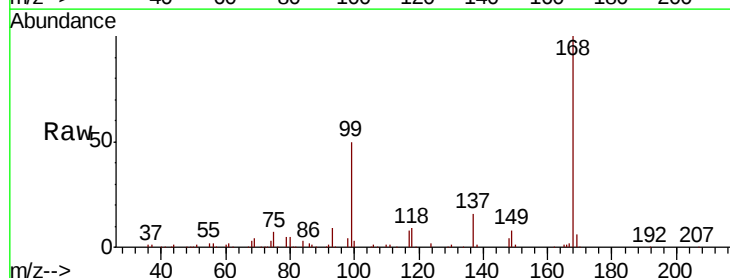
Tgt Ion: 56 Resp: 11247

Ion Ratio Lower Upper

56 100

69 213.8 25.8 38.6#

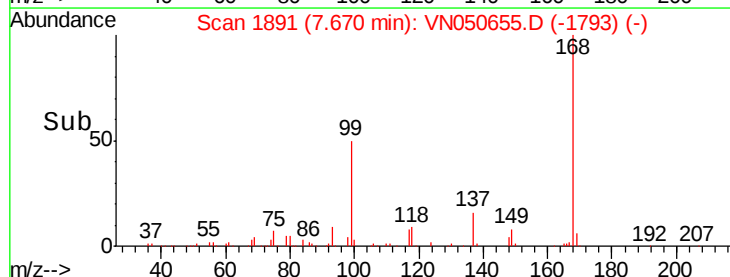
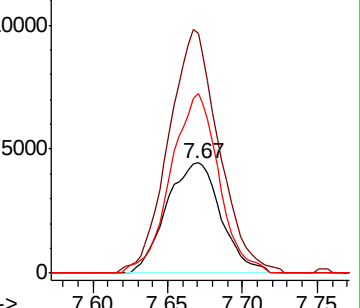
84 163.1 67.8 101.6#

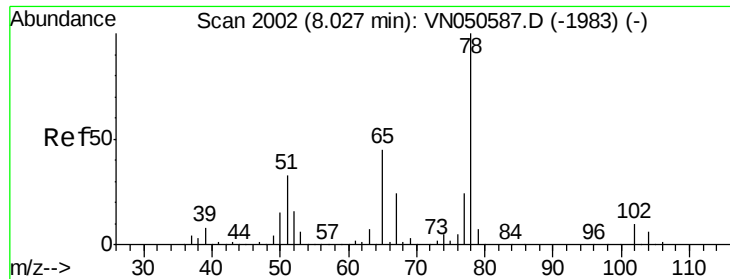


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

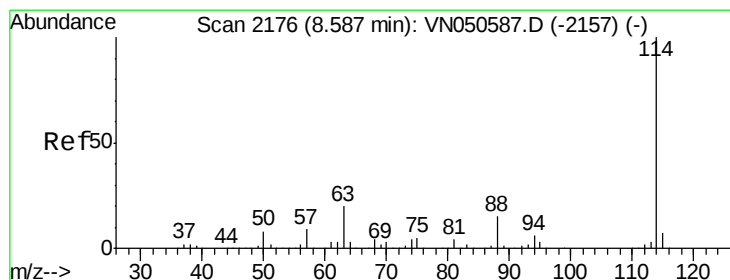
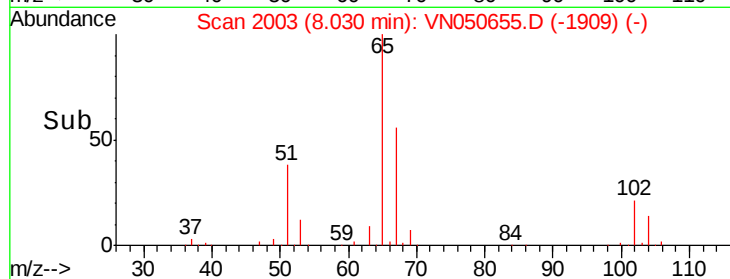
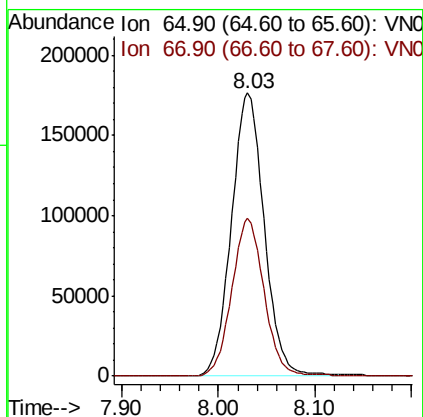
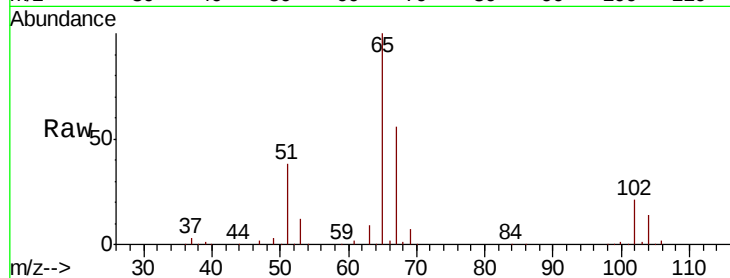




#33
 1,2-Dichloroethane-d4
 Concen: 53.40 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050655.D
 Acq: 15 Aug 2018 15:13

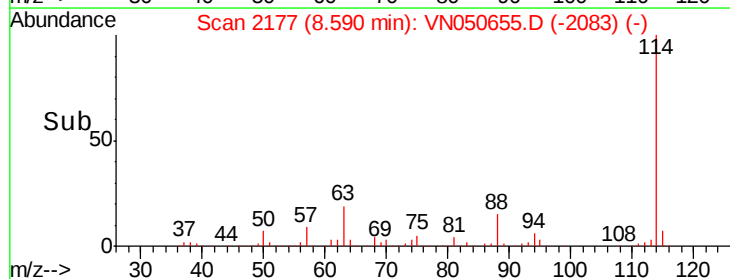
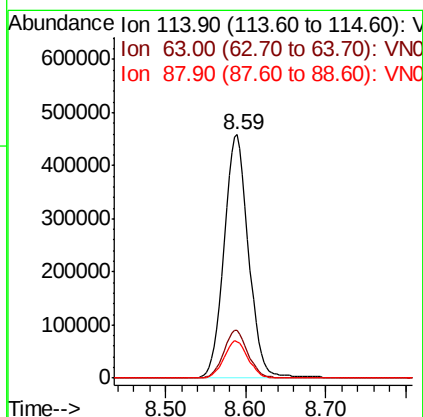
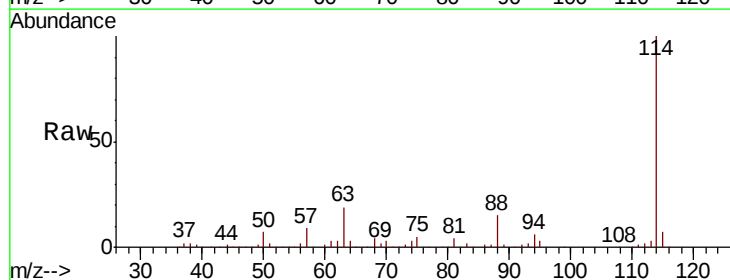
Instrument :
 MSVOA_N
 ClientSampleId :
 946-MW-07(22.5)

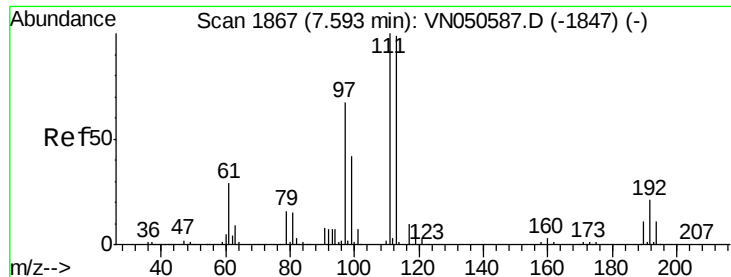
Tot Ion: 65 Resp: 415155
 Ion Ratio Lower Upper
 65 100
 67 54.7 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050655.D
 Acq: 15 Aug 2018 15:13

Tgt Ion: 114 Resp: 962506
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 40.0
 88 15.1 0.0 30.8

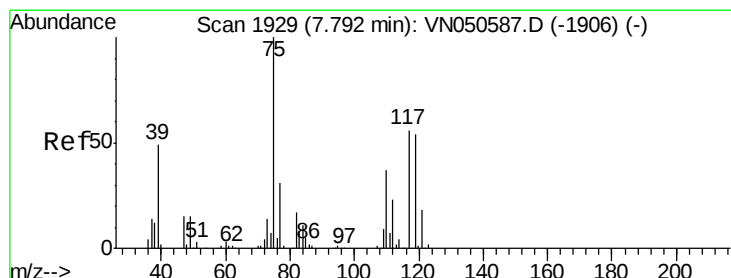
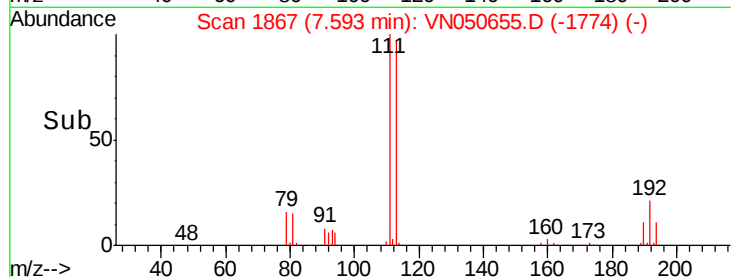
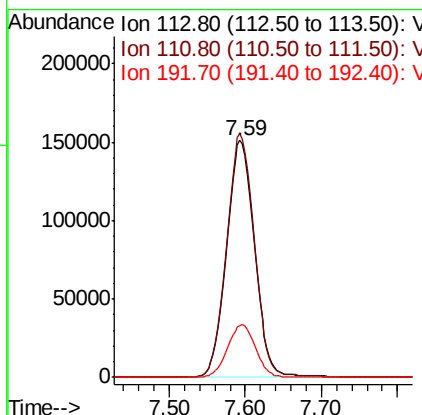
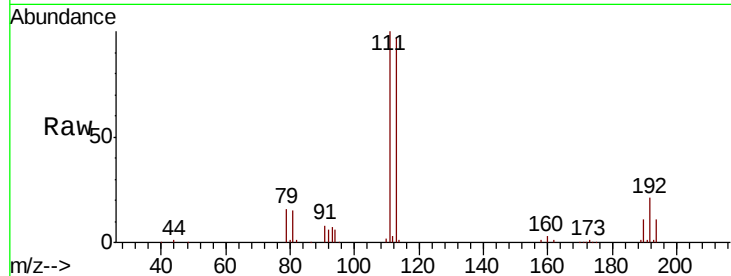




#35
 Dibromofluoromethane
 Concen: 50.43 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050655.D
 Acq: 15 Aug 2018 15:13

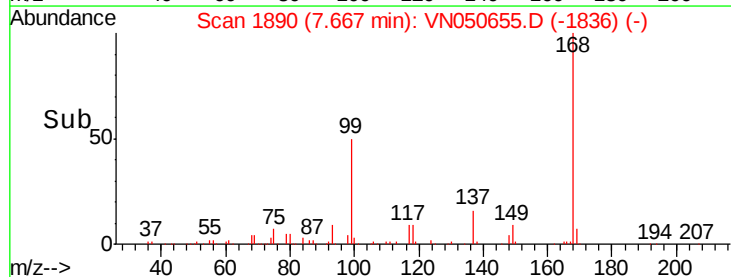
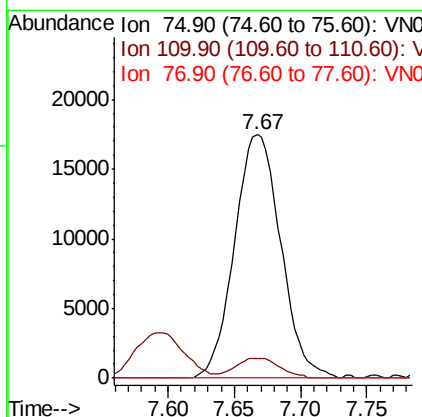
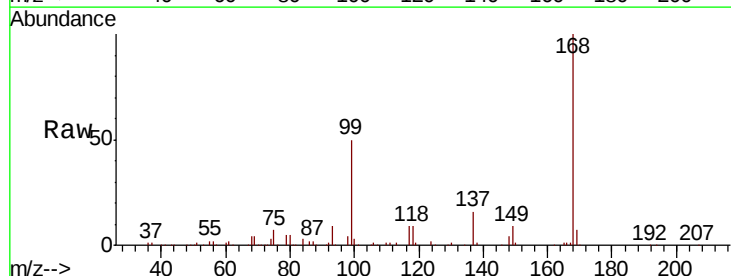
Instrument :
 MSVOA_N
 ClientSampleId :
 946-MW-07(22.5)

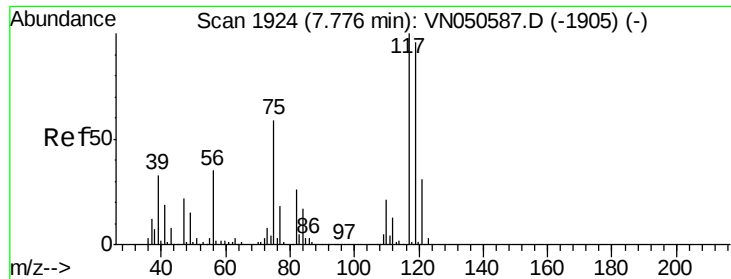
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.0	121.6
192	22.1	17.6	26.4



#36
 1,1-Dichloropropene
 Concen: 3.96 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050655.D
 Acq: 15 Aug 2018 15:13

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.9	18.3	54.9#
77	0.0	25.0	37.4#

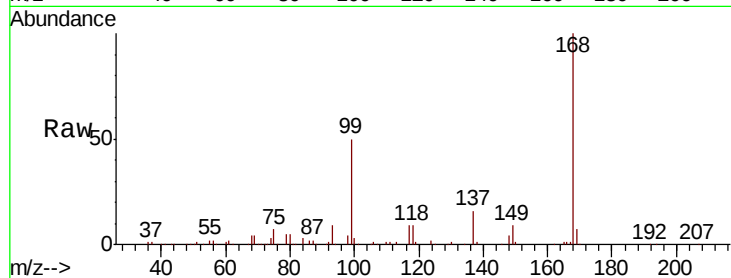




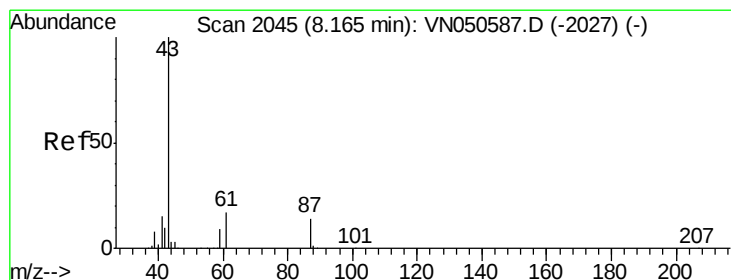
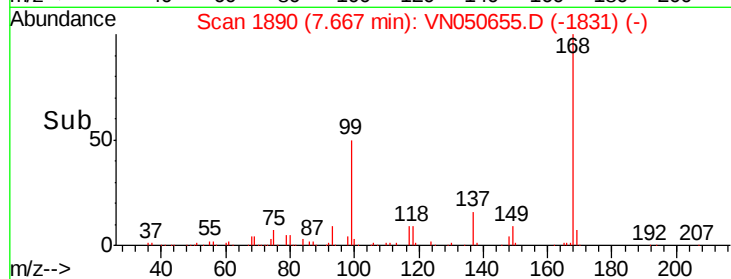
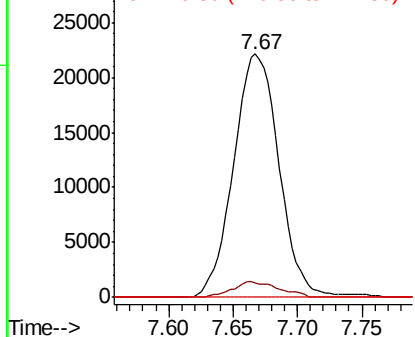
#38
Carbon Tetrachloride
Concen: 4.87 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN050655.D
Acq: 15 Aug 2018 15:13

Instrument :
MSVOA_N
ClientSampleId :
946-MW-07(22.5)

Tot Ion:117 Resp: 54130
Ion Ratio Lower Upper
117 100
119 5.9 76.6 115.0#
121 0.0 25.0 37.6#

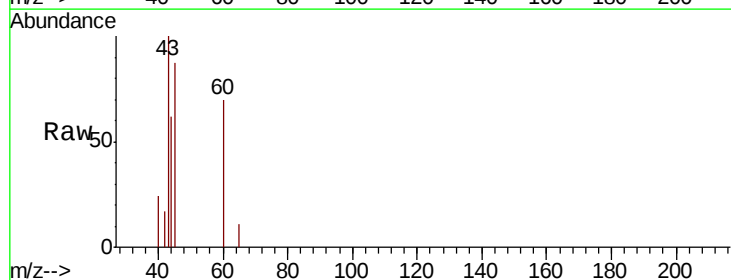


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

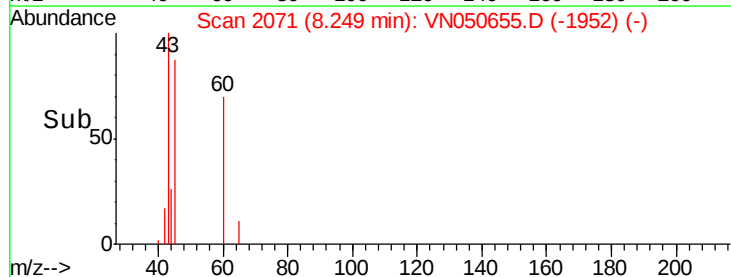
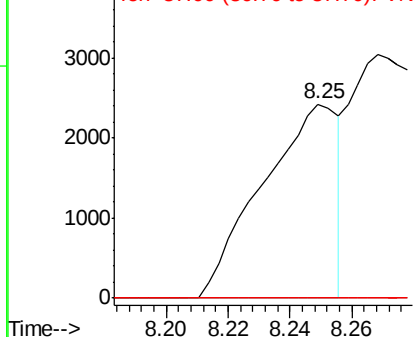


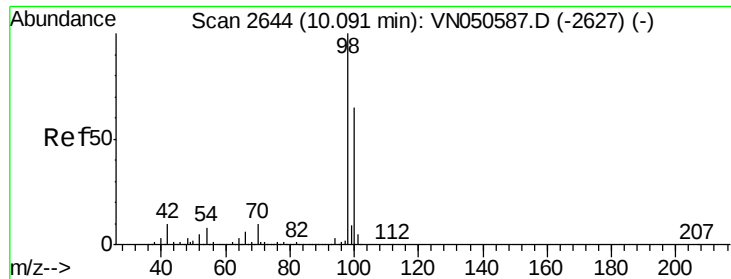
#43
Isopropyl Acetate
Concen: 0.37 ug/l
RT: 8.25 min Scan# 2071
Delta R.T. 0.08 min
Lab File: VN050655.D
Acq: 15 Aug 2018 15:13

Tgt Ion: 43 Resp: 4123
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): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO

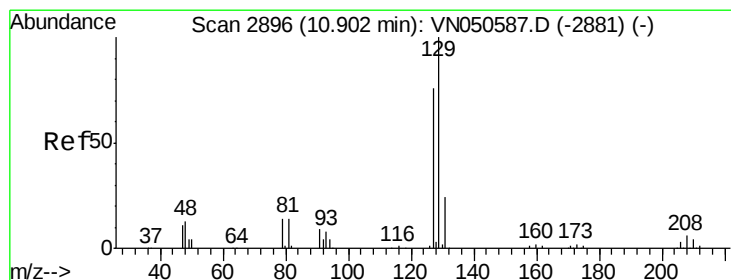
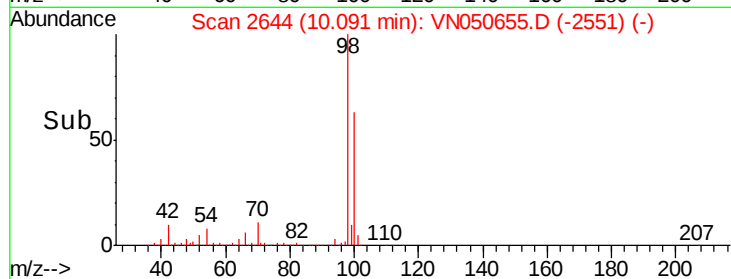
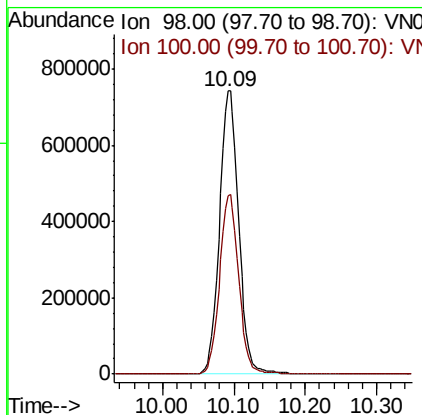
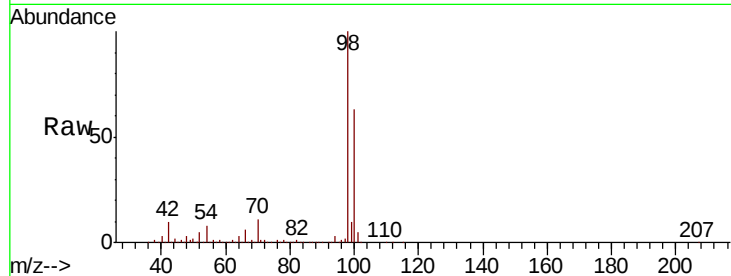




#50
Toluene-d8
Concen: 47.78 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050655.D
Acq: 15 Aug 2018 15:13

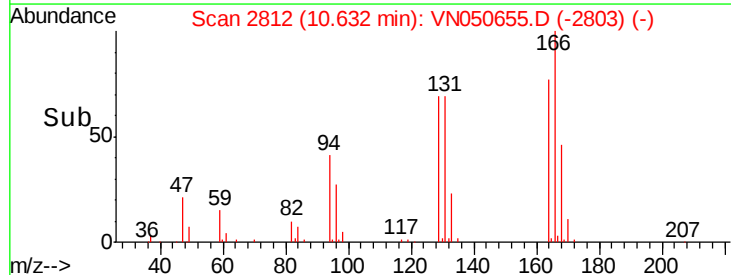
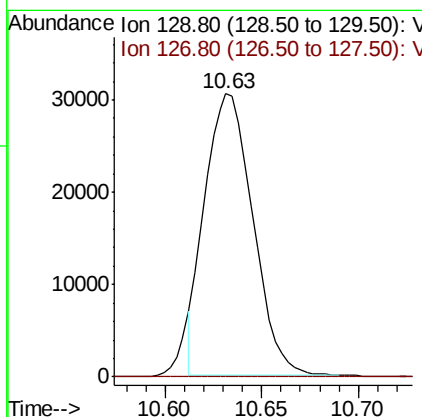
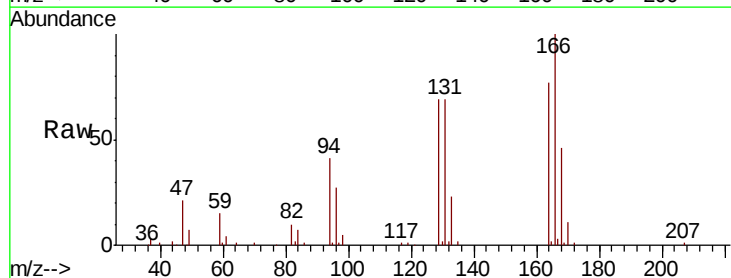
Instrument :
MSVOA_N
ClientSampleId :
946-MW-07(22.5)

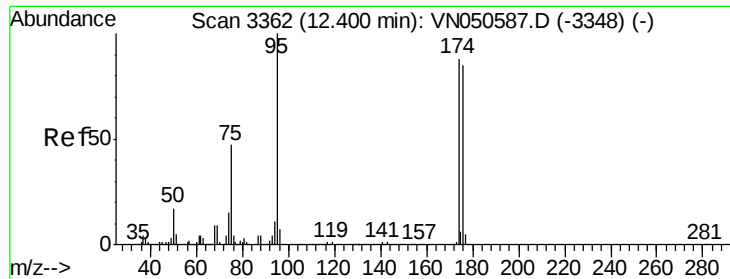
Tot Ion: 98 Resp: 1381828
Ion Ratio Lower Upper
98 100
100 63.3 51.8 77.8



#60
Dibromochloromethane
Concen: 6.53 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. -0.27 min
Lab File: VN050655.D
Acq: 15 Aug 2018 15:13

Tgt Ion: 129 Resp: 52387
Ion Ratio Lower Upper
129 100
127 0.0 38.9 116.7#

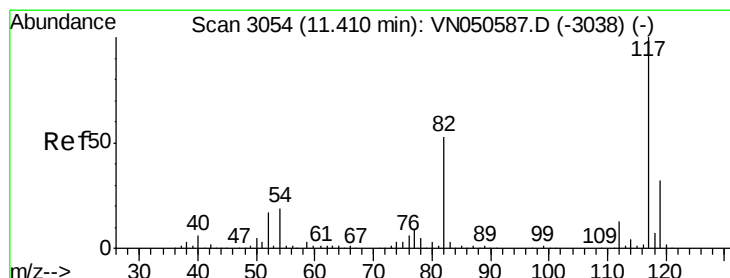
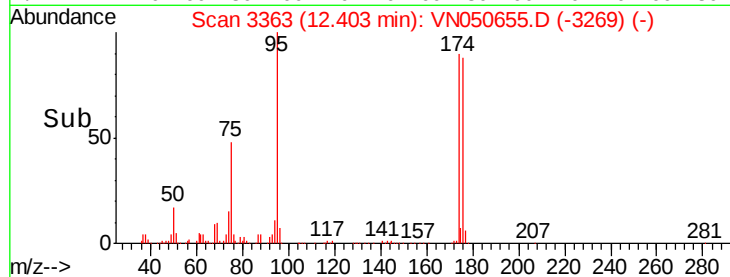
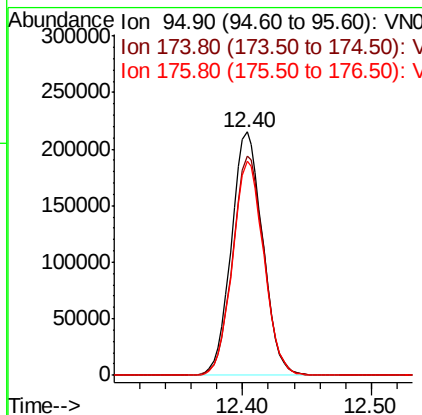
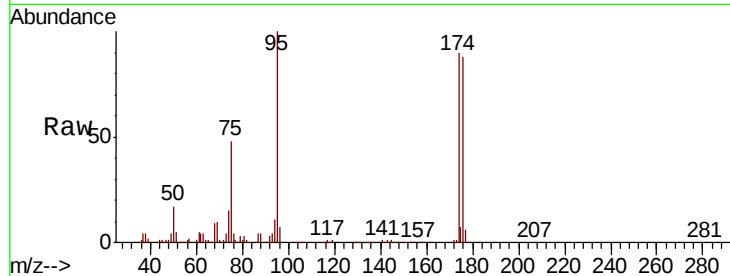




#62
4-Bromofluorobenzene
Concen: 37.92 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050655.D
Acq: 15 Aug 2018 15:13

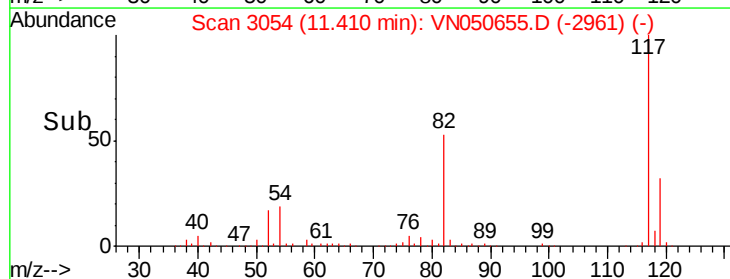
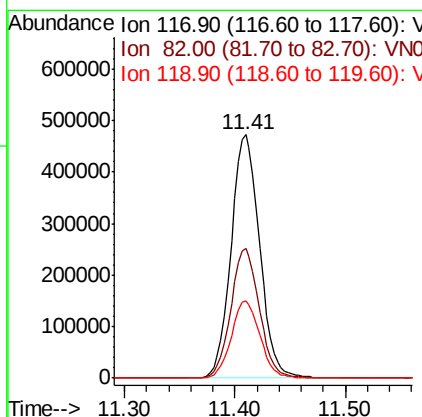
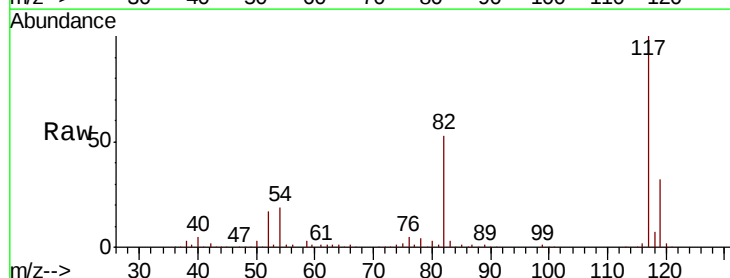
Instrument :
MSVOA_N
ClientSampleId :
946-MW-07(22.5)

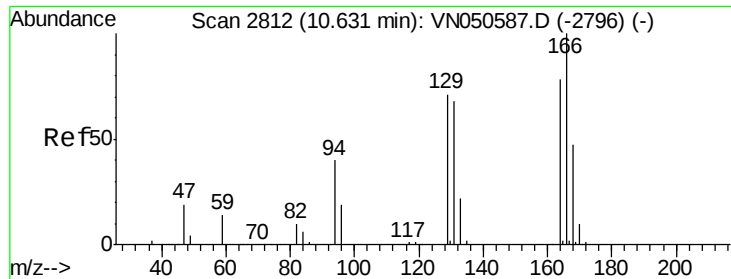
Tot Ion: 95 Resp: 362287
Ion Ratio Lower Upper
95 100
174 90.3 0.0 177.8
176 87.9 0.0 175.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050655.D
Acq: 15 Aug 2018 15:13

Tgt Ion: 117 Resp: 847199
Ion Ratio Lower Upper
117 100
82 53.0 42.4 63.6
119 31.9 25.8 38.8





#64

Tetrachloroethene

Concen: 7.92 ug/l

RT: 10.63 min Scan# 2812

Delta R.T. 0.00 min

Lab File: VN050655.D

Acq: 15 Aug 2018 15:13

Instrument :

MSVOA_N

ClientSampled :

946-MW-07(22.5)

Tot Ion:164 Resp: 62342

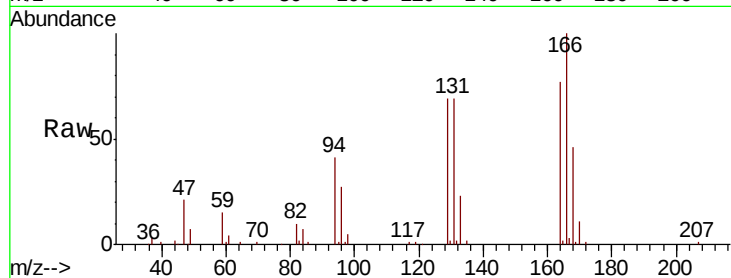
Ion Ratio Lower Upper

164 100

166 129.6 102.1 153.1

129 89.7 72.7 109.1

131 90.0 69.9 104.9

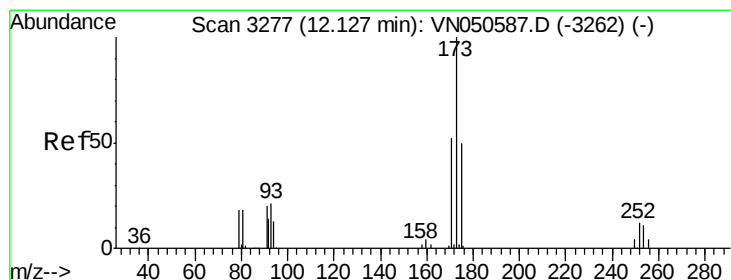
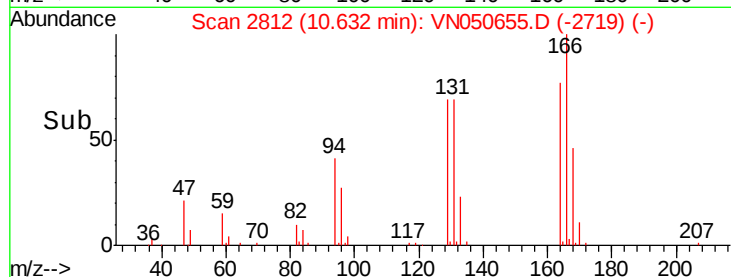
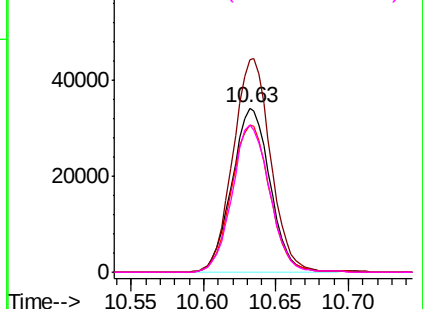


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 0.70 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN050655.D

Acq: 15 Aug 2018 15:13

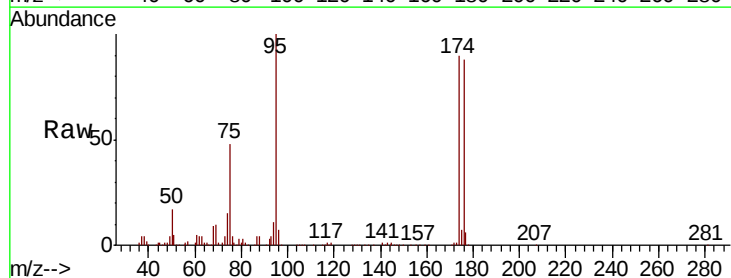
Tgt Ion:173 Resp: 3670

Ion Ratio Lower Upper

173 100

175 564.0 24.4 73.2#

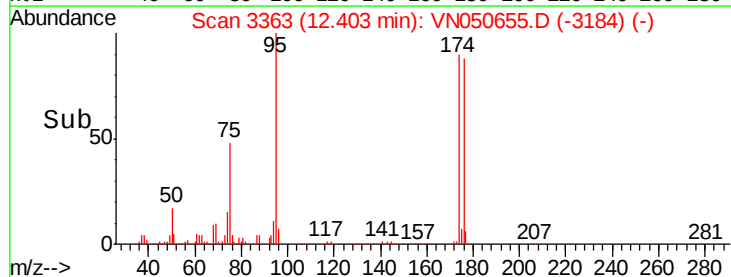
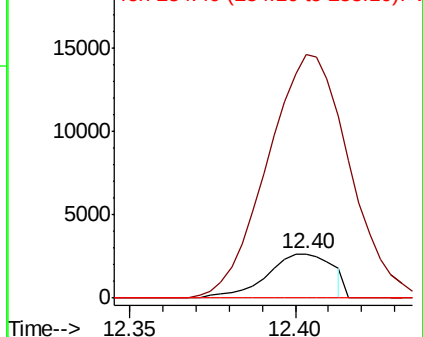
254 0.0 0.0 0.0

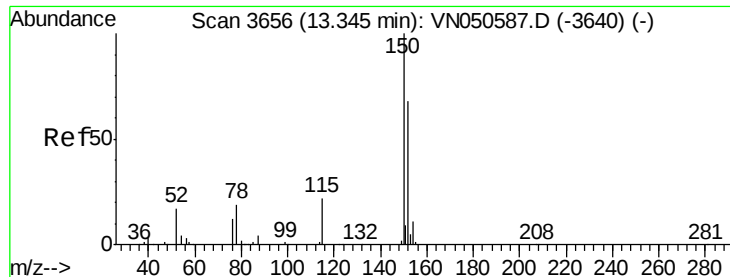


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050655.D

Acq: 15 Aug 2018 15:13

Instrument :

MSVOA_N

ClientSampleId :

946-MW-07(22.5)

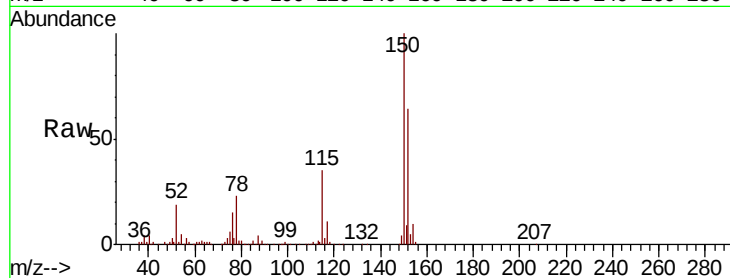
Tot Ion:152 Resp: 277299

Ion Ratio Lower Upper

152 100

115 55.9 28.1 84.2

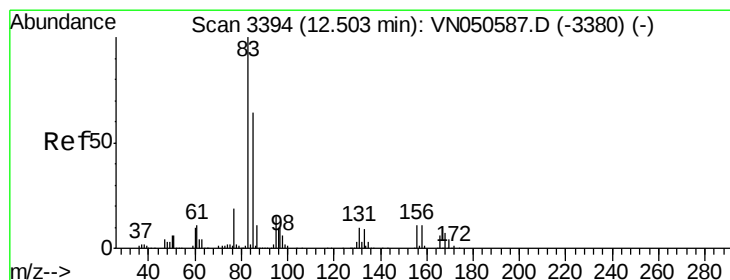
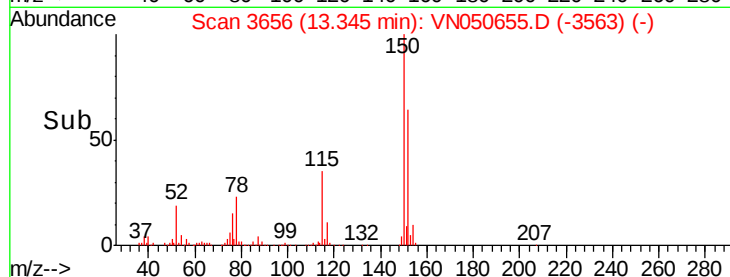
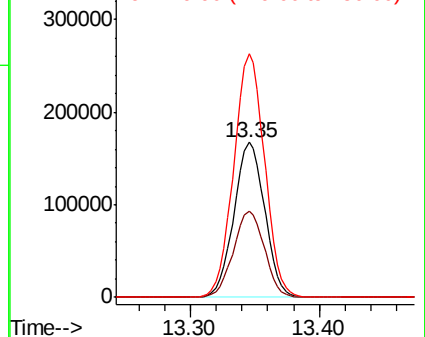
150 157.2 0.0 347.8



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# 3362

Delta R.T. -0.10 min

Lab File: VN050655.D

Acq: 15 Aug 2018 15:13

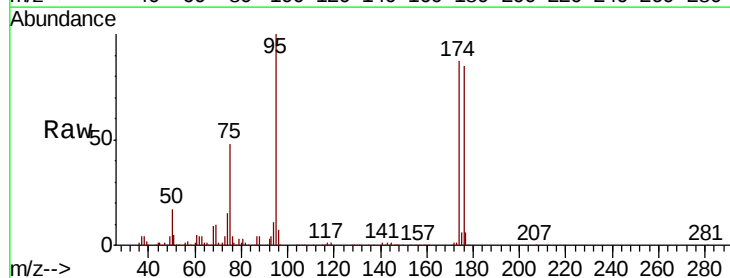
Tgt Ion: 83 Resp: 215

Ion Ratio Lower Upper

83 100

131 157.2 5.3 15.9#

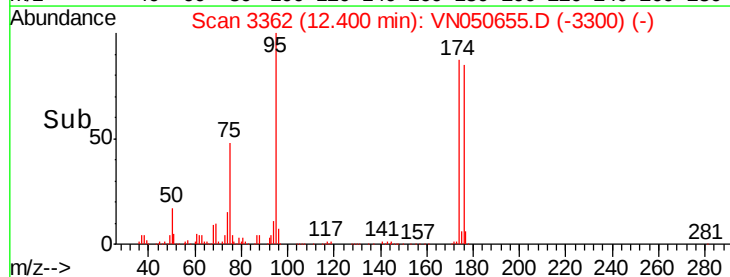
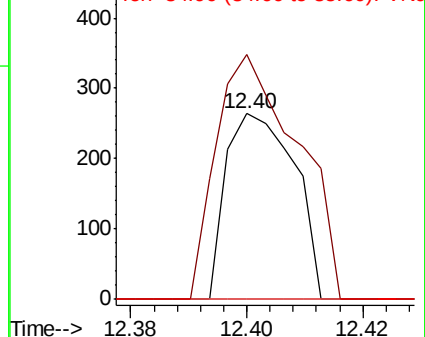
85 0.0 32.1 96.5#

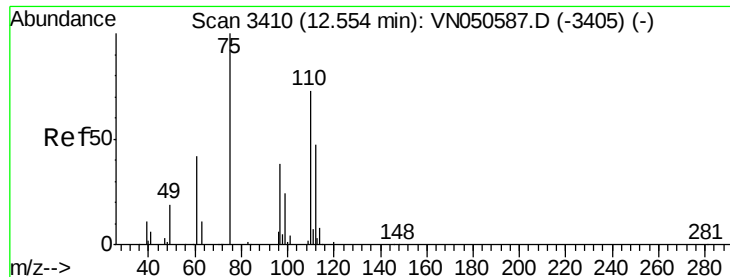


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 38.08 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050655.D

Acq: 15 Aug 2018 15:13

Instrument :

MSVOA_N

ClientSampleId :

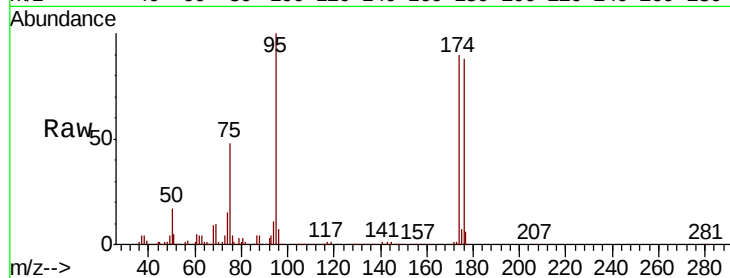
946-MW-07(22.5)

Tot Ion: 75 Resp: 171708

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

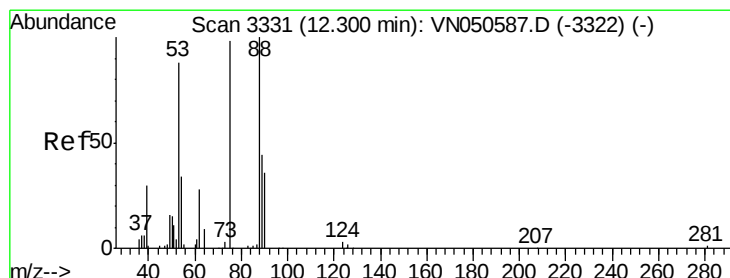
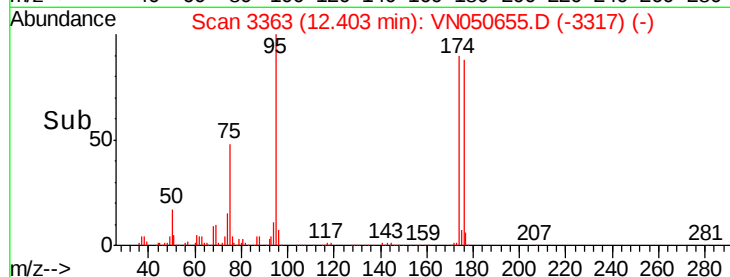
20000

0

12.40

12.50

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 137.66 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050655.D

Acq: 15 Aug 2018 15:13

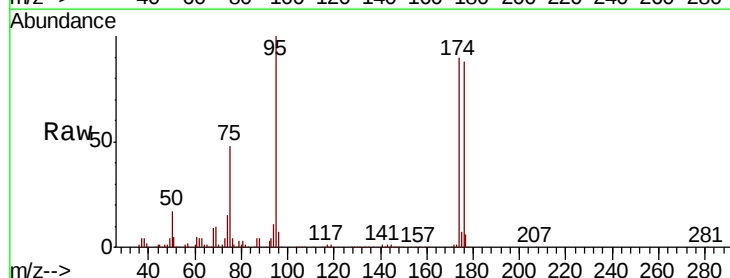
Tgt Ion: 75 Resp: 171708

Ion Ratio Lower Upper

75 100

53 0.2 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

100000

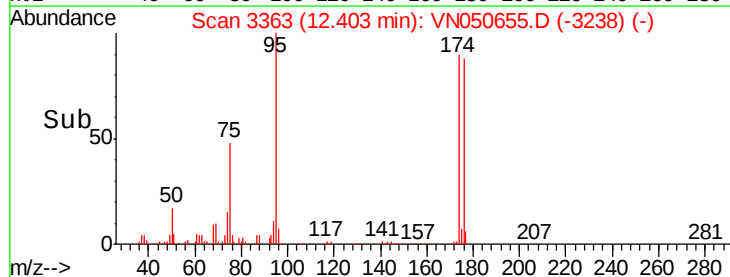
50000

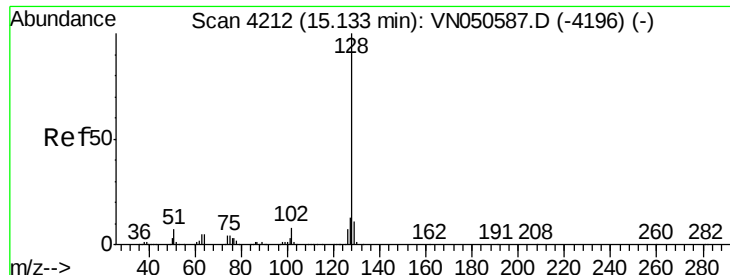
0

12.40

12.50

Time-->





#95

Naphthalene

Concen: 3.87 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.01 min

Lab File: VN050655.D

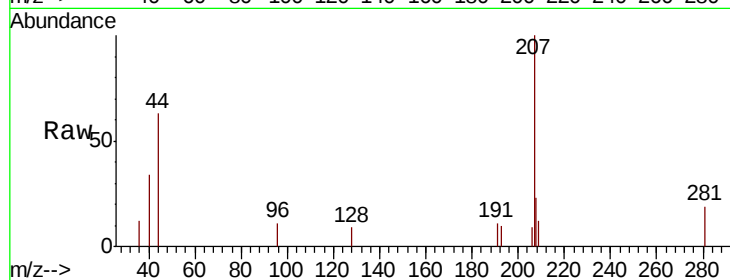
Acq: 15 Aug 2018 15:13

Instrument :

MSVOA_N

ClientSampleId :

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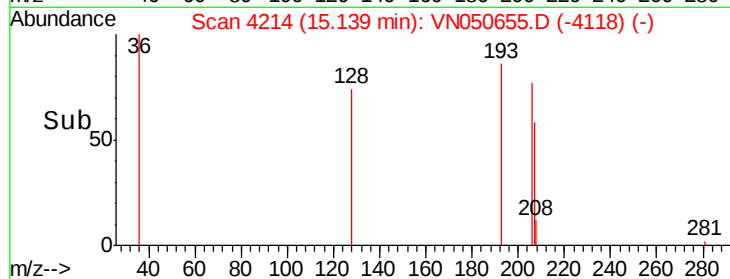
Tot Ion:128 Resp: 94

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.5 12.7#



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

