

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021119\
 Data File : VN053711.D
 Acq On : 11 Feb 2019 18:07
 Operator : JC/SP
 Sample : K1453-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 M-9-D

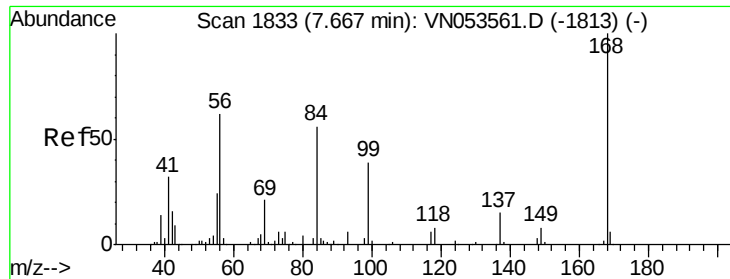
Quant Time: Feb 11 22:11:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	709364	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1195181	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1117735	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	467299	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	384986	54.10	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	108.20%	
35) Dibromofluoromethane	7.59	113	376928	49.91	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	99.82%	
50) Toluene-d8	10.09	98	1460119	51.49	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.98%	
62) 4-Bromofluorobenzene	12.40	95	490294	51.84	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.68%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.62	56	62	0.270	ug/l #	14
14) Allyl chloride	4.55	41	520451	49.761	ug/l #	27
16) Acetone	3.82	43	20736	11.360	ug/l	97
18) Methyl Acetate	4.34	43	2309	0.427	ug/l #	88
20) Methylene Chloride	4.55	84	14424592	1883.581	ug/l	100
25) 2-Butanone	6.85	43	5665	2.176	ug/l	94
30) Chloroform	7.37	83	3659	0.286	ug/l	91
31) Cyclohexane	7.67	56	10467	0.703	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	41319	3.835	ug/l #	49
38) Carbon Tetrachloride	7.67	117	59065	5.442	ug/l #	16
43) Isopropyl Acetate	8.18	43	41397	3.562	ug/l #	76
45) 1,2-Dichloropropane	9.27	63	2246	0.264	ug/l #	43
48) Methyl methacrylate	9.18	41	11175	2.015	ug/l #	12
49) 1,4-Dioxane	9.26	88	104	40.341	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	9131	1.599	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	73263	5.797	ug/l #	62
57) 1,3-Dichloropropane	10.77	76	13510	1.113	ug/l #	43
59) 2-Hexanone	10.76	43	182868	47.172	ug/l #	50
68) m/p-Xylenes	11.62	106	4480	0.301	ug/l	87
71) Bromoform	12.40	173	3164	0.557	ug/l #	1
74) N-amyl acetate	11.88	43	19598	2.481	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	228283	38.033	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	9337	0.343	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	228283	106.947	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	22351	0.805	ug/l	98
95) Naphthalene	15.13	128	25499	2.935	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053711.D

Acq: 11 Feb 2019 18:07

Instrument :

MSVOA_N

ClientSampleId :

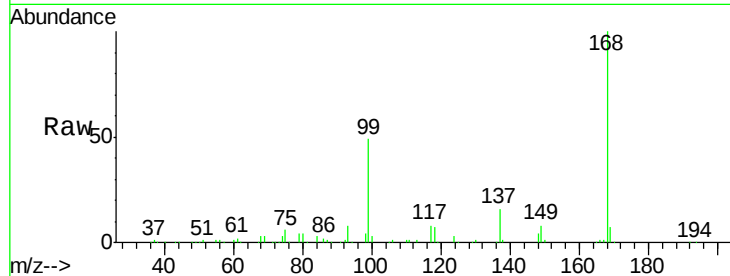
M-9-D

Tot Ion:168 Resp: 709364

Ion Ratio Lower Upper

168 100

99 48.7 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

150000

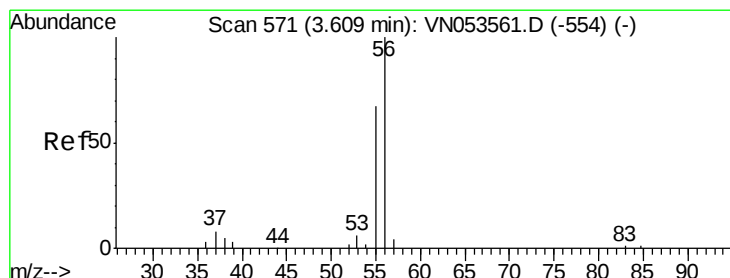
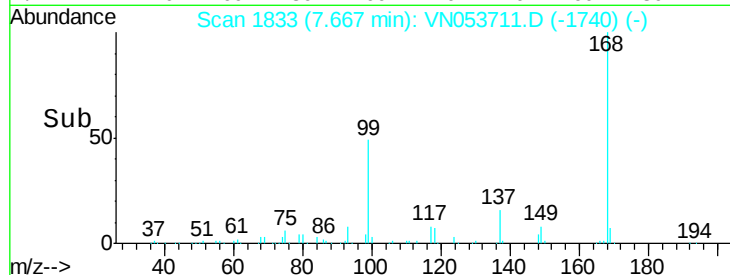
100000

50000

0

Time-->

7.60 7.70 7.80



#13

Acrolein

Concen: 0.270 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN053711.D

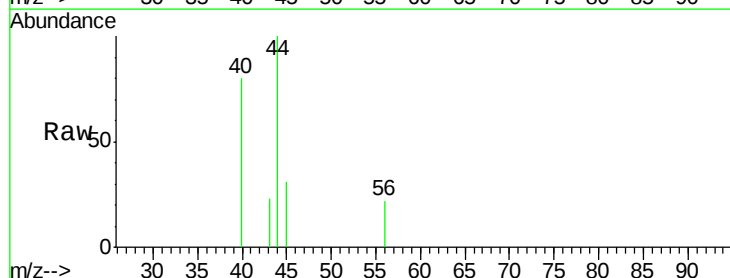
Acq: 11 Feb 2019 18:07

Tgt Ion: 56 Resp: 62

Ion Ratio Lower Upper

56 100

55 0.0 57.4 86.0#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.62

150

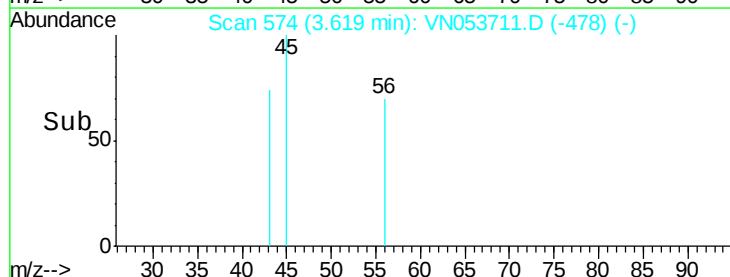
100

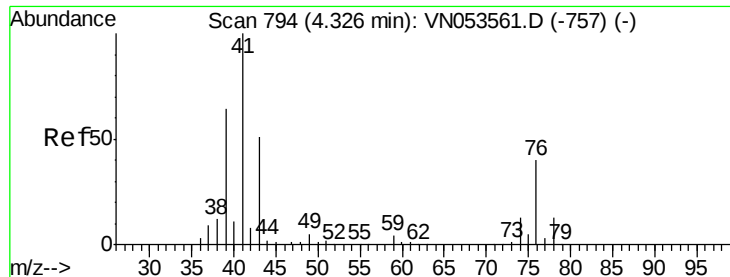
50

0

Time-->

3.60 3.61 3.62 3.63

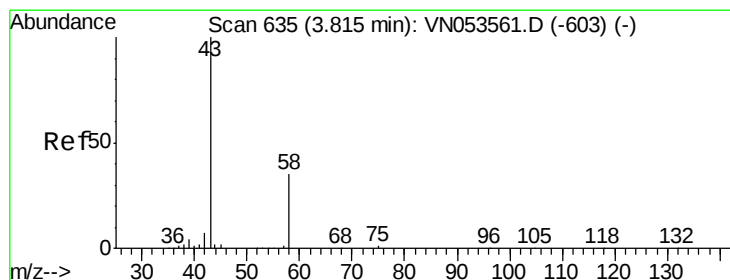
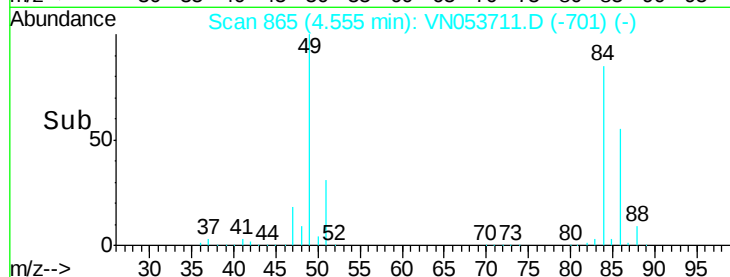
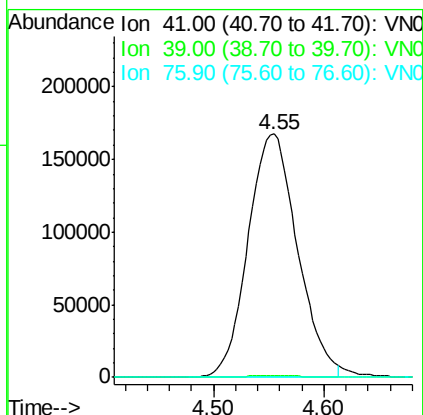
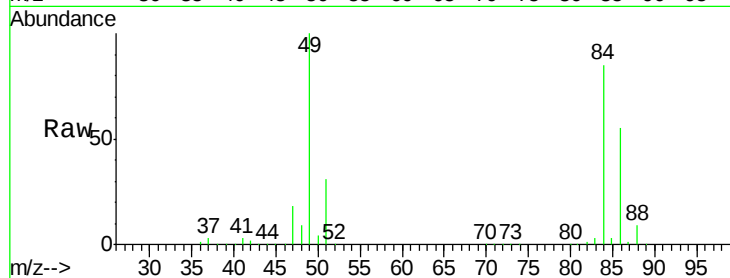




#14
Allvl chloride
Concen: 49.761 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.23 min
Lab File: VN053711.D
Acq: 11 Feb 2019 18:07

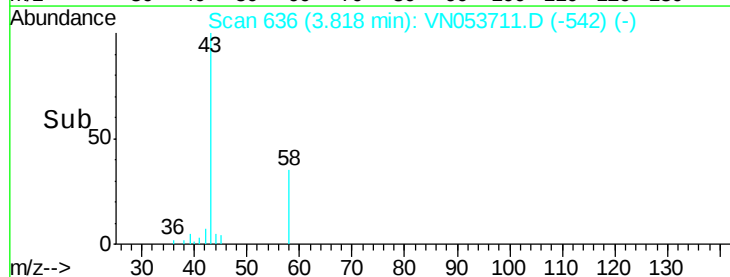
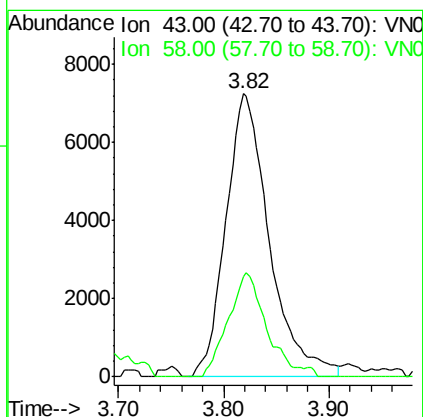
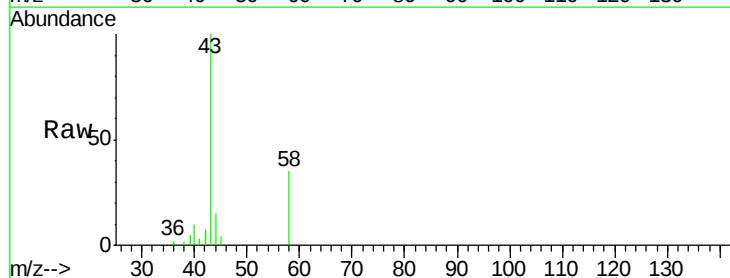
Instrument :
MSVOA_N
ClientSampled :
M-9-D

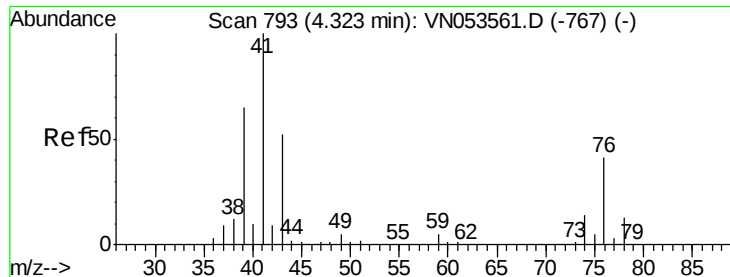
Tot Ion: 41 Resp: 520451
Ion Ratio Lower Upper
41 100
39 0.8 48.9 73.3#
76 0.0 29.4 44.2#



#16
Acetone
Concen: 11.360 ug/l
RT: 3.82 min Scan# 636
Delta R.T. 0.00 min
Lab File: VN053711.D
Acq: 11 Feb 2019 18:07

Tgt Ion: 43 Resp: 20736
Ion Ratio Lower Upper
43 100
58 35.4 27.1 40.7

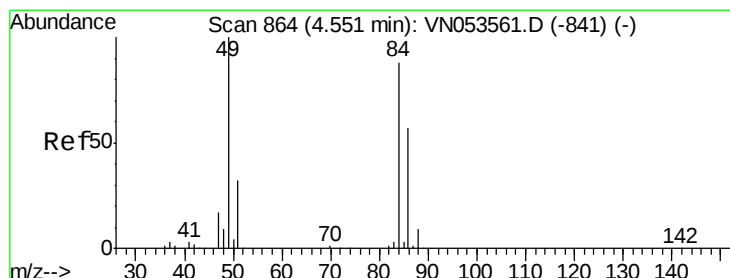
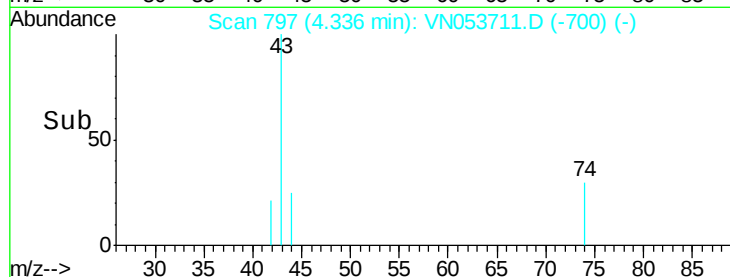
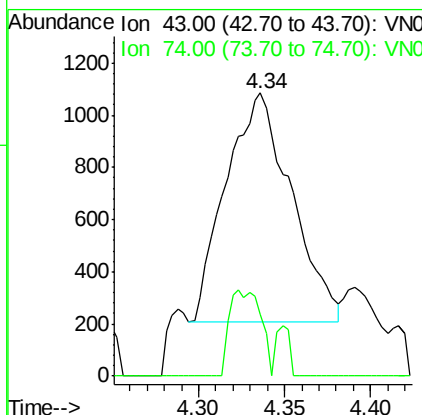
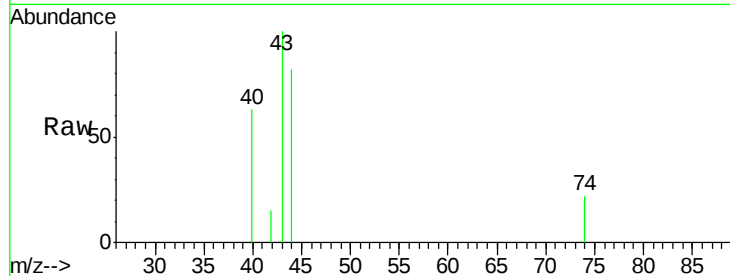




#18
Methyl Acetate
Concen: 0.427 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN053711.D
Acq: 11 Feb 2019 18:07

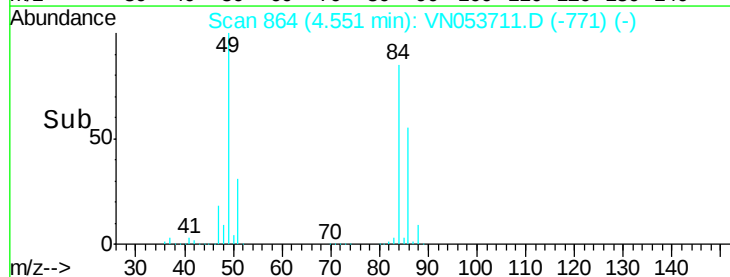
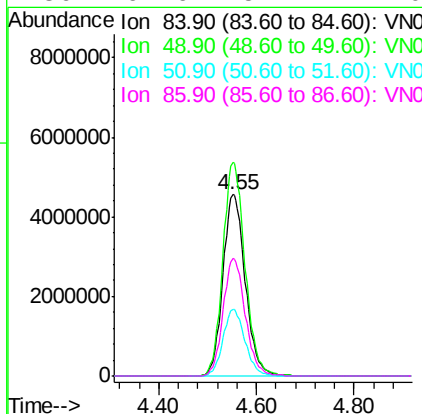
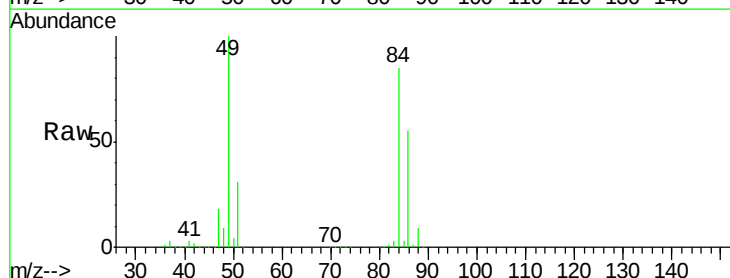
Instrument :
MSVOA_N
ClientSampled :
M-9-D

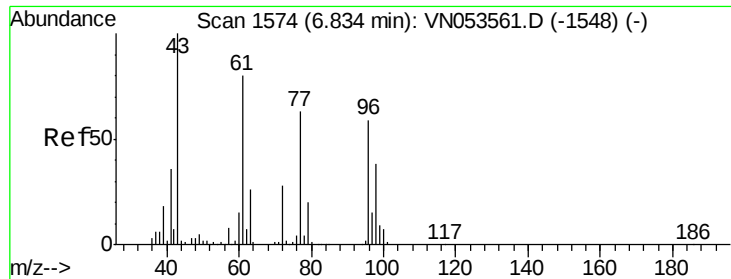
Tot Ion: 43 Resp: 2309
Ion Ratio Lower Upper
43 100
74 18.2 19.4 29.2#



#20
Methylene Chloride
Concen: 1883.581 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN053711.D
Acq: 11 Feb 2019 18:07

Tgt Ion: 84 Resp: 14424592
Ion Ratio Lower Upper
84 100
49 117.8 94.3 141.5
51 36.6 29.4 44.2
86 64.6 51.4 77.0





#25

2-Butanone

Concen: 2.176 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. 0.02 min

Lab File: VN053711.D

Acq: 11 Feb 2019 18:07

Instrument :

MSVOA_N

ClientSampled :

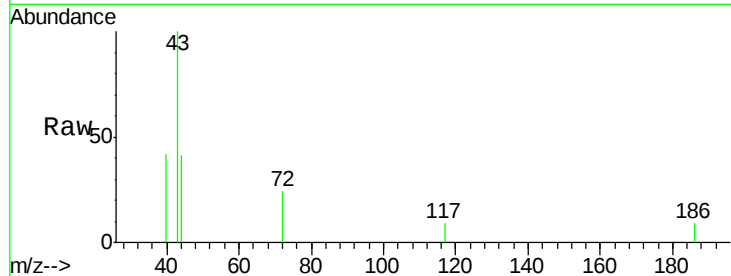
M-9-D

Tot Ion: 43 Resp: 5665

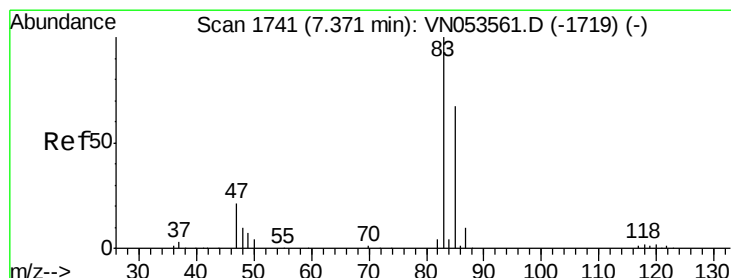
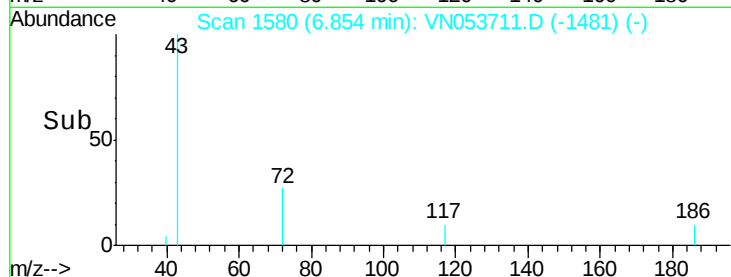
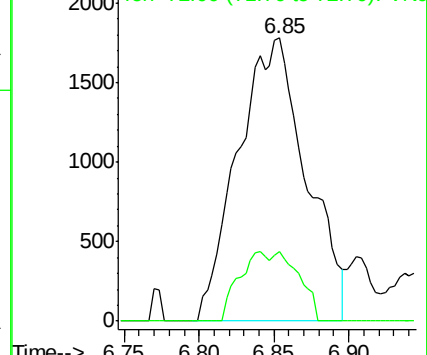
Ion Ratio Lower Upper

43 100

72 24.4 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VN053711.D (-1481) (-)



#30

Chloroform

Concen: 0.286 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VN053711.D

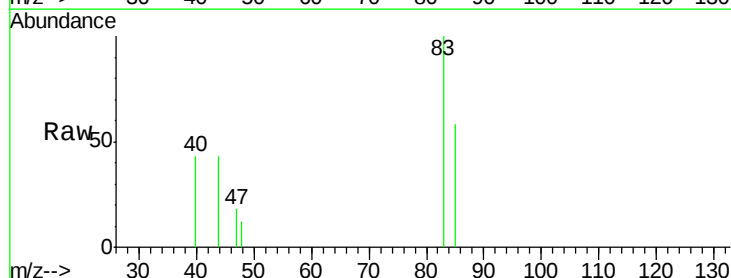
Acq: 11 Feb 2019 18:07

Tgt Ion: 83 Resp: 3659

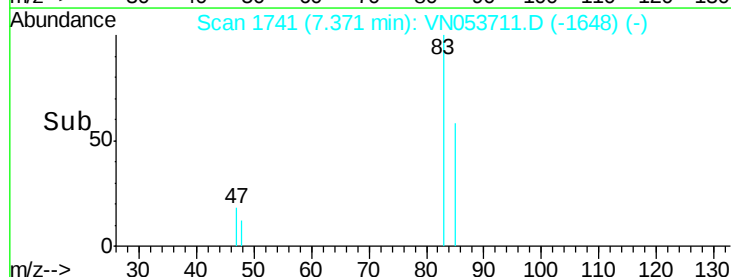
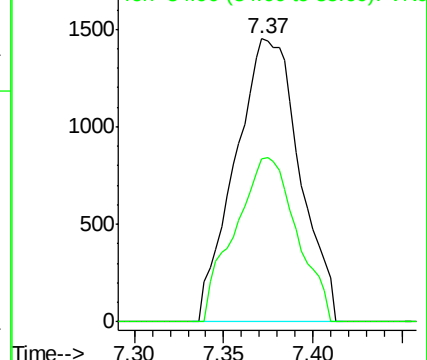
Ion Ratio Lower Upper

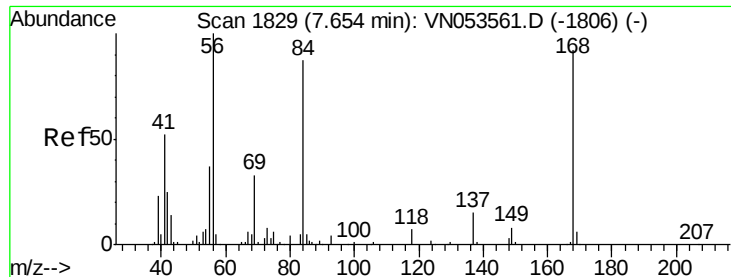
83 100

85 57.8 52.2 78.2



Abundance Ion 82.90 (82.60 to 83.60): VN053711.D (-1648) (-)

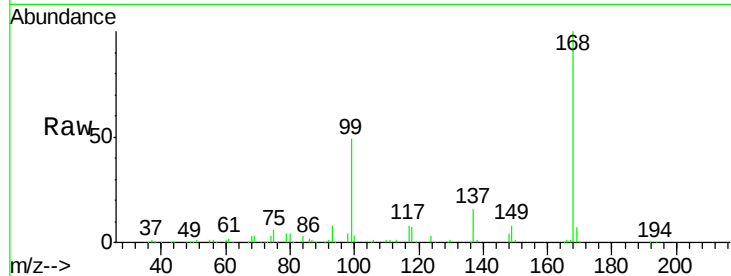




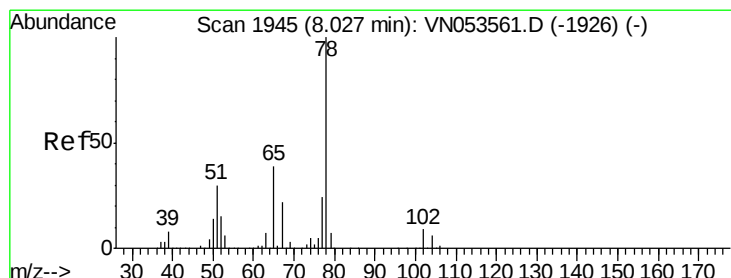
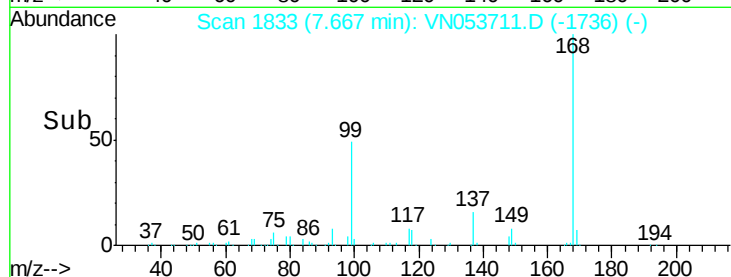
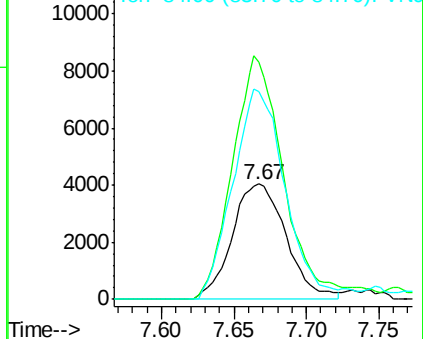
#31
Cvclohexane
Concen: 0.703 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN053711.D
Acq: 11 Feb 2019 18:07

Instrument :
MSVOA_N
ClientSampled :
M-9-D

Tot Ion: 56 Resp: 10467
Ion Ratio Lower Upper
56 100
69 206.2 26.4 39.6#
84 181.2 67.9 101.9#

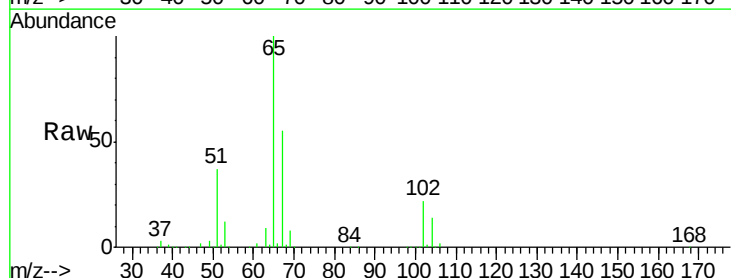


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

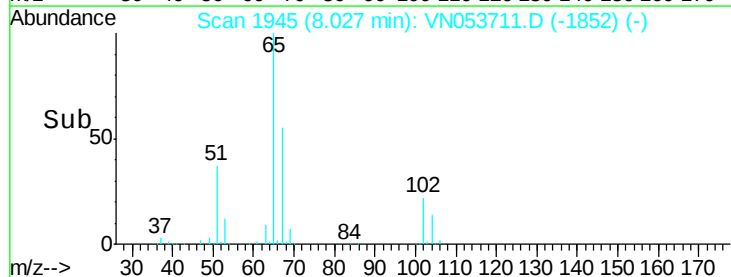
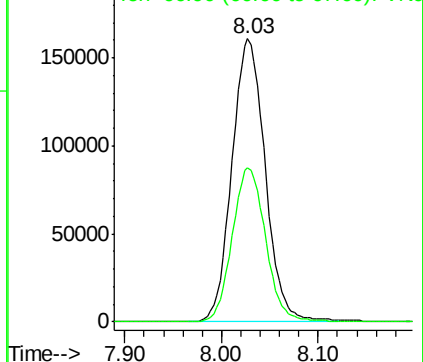


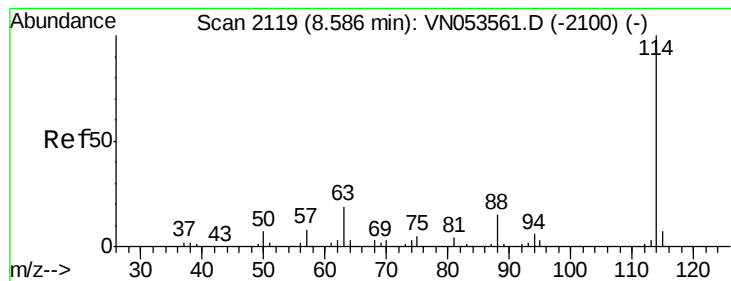
#33
1,2-Dichloroethane-d4
Concen: 54.099 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN053711.D
Acq: 11 Feb 2019 18:07

Tgt Ion: 65 Resp: 384986
Ion Ratio Lower Upper
65 100
67 54.6 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053711.D

Acq: 11 Feb 2019 18:07

Instrument :

MSVOA_N

ClientSampleId :

M-9-D

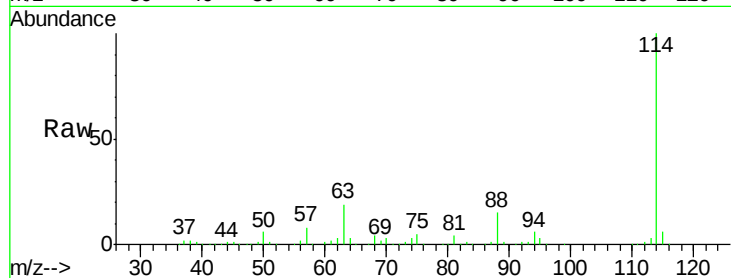
Tot Ion:114 Resp: 1195181

Ion Ratio Lower Upper

114 100

63 19.3 0.0 38.6

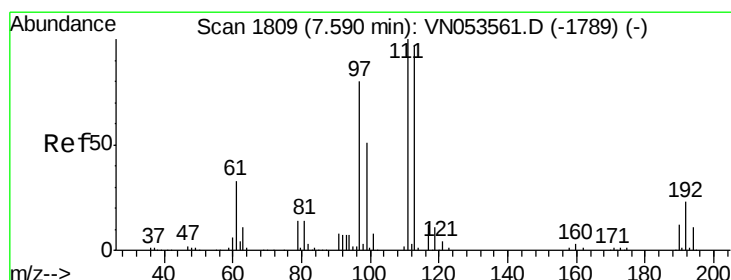
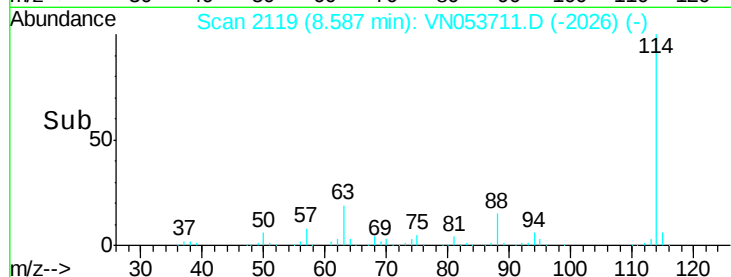
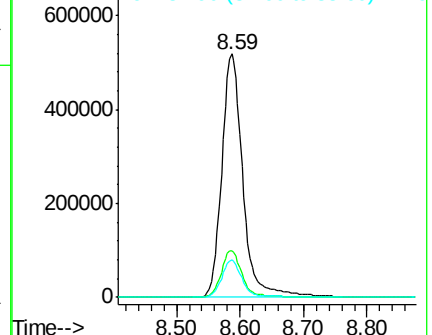
88 15.2 0.0 30.4



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: 49.911 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053711.D

Acq: 11 Feb 2019 18:07

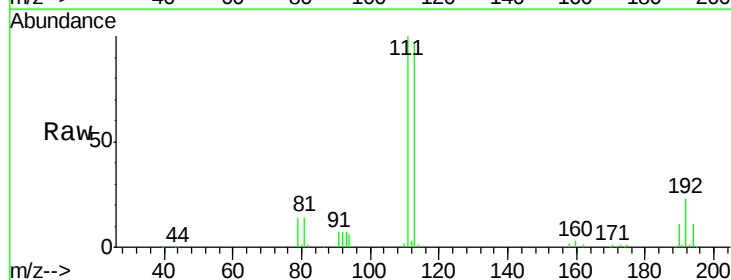
Tgt Ion:113 Resp: 376928

Ion Ratio Lower Upper

113 100

111 102.8 81.1 121.7

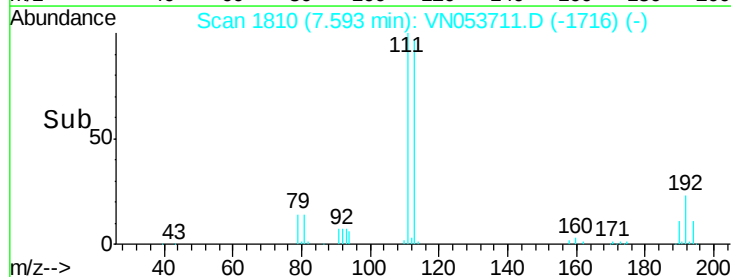
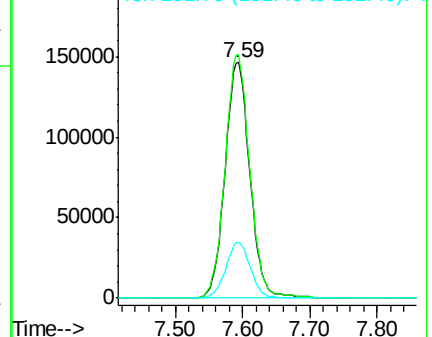
192 23.5 18.2 27.2

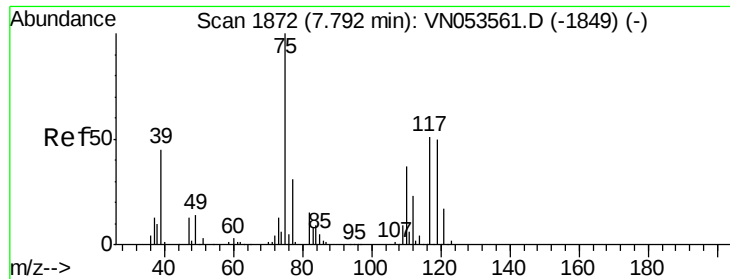


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

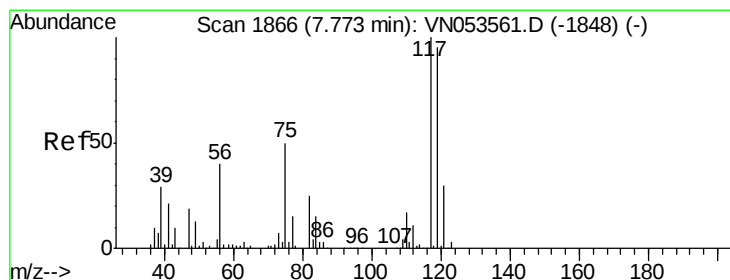
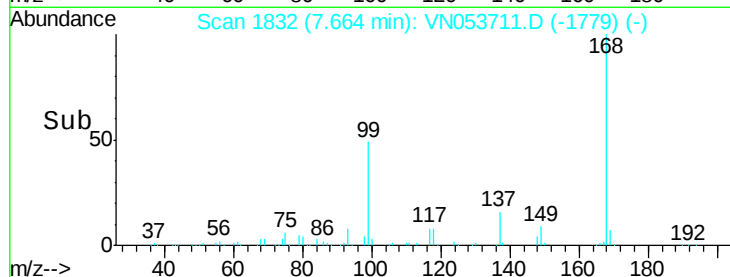
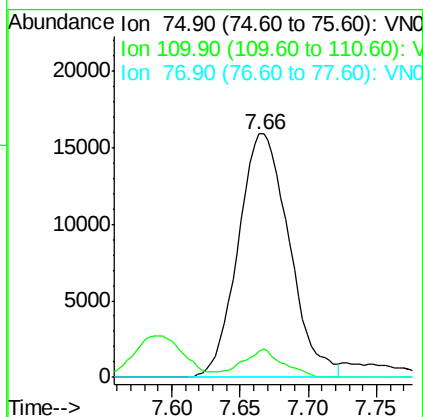
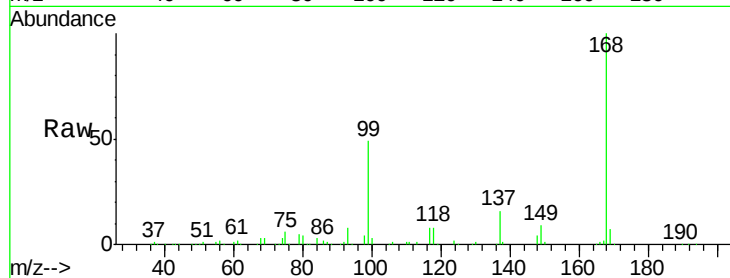




#36
 1,1-Dichloropropene
 Concen: 3.835 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN053711.D
 Acq: 11 Feb 2019 18:07

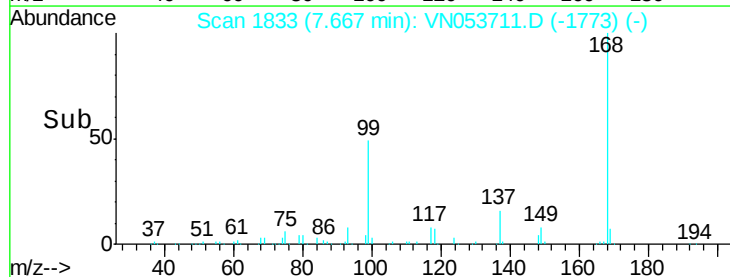
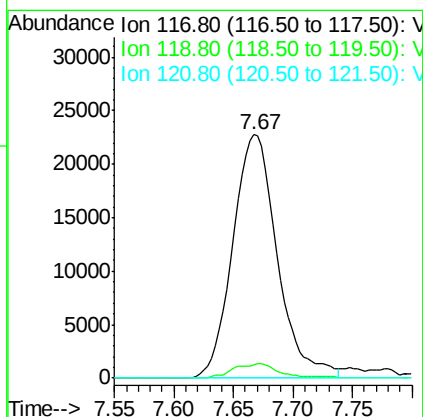
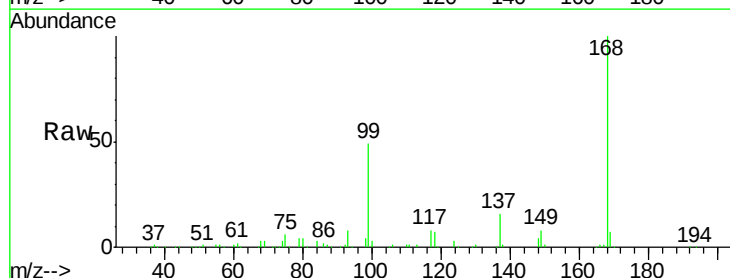
Instrument :
 MSVOA_N
 ClientSampled :
 M-9-D

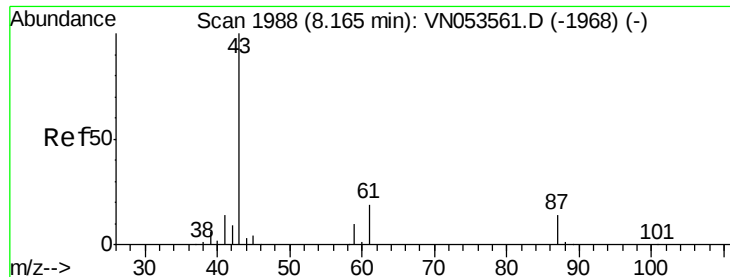
Tot Ion: 75 Resp: 41319
 Ion Ratio Lower Upper
 75 100
 110 9.1 18.1 54.3#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 5.442 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN053711.D
 Acq: 11 Feb 2019 18:07

Tgt Ion: 117 Resp: 59065
 Ion Ratio Lower Upper
 117 100
 119 5.4 77.2 115.8#
 121 0.0 24.6 37.0#





#43

Isopropyl Acetate

Concen: 3.562 ug/l

RT: 8.18 min Scan# 1991

Delta R.T. 0.01 min

Lab File: VN053711.D

Acq: 11 Feb 2019 18:07

Instrument :

MSVOA_N

ClientSampled :

M-9-D

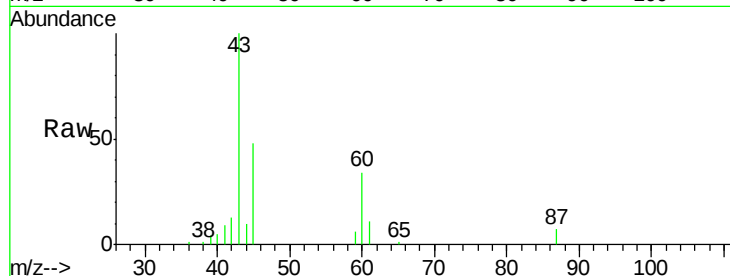
Tot Ion: 43 Resp: 41397

Ion Ratio Lower Upper

43 100

61 14.4 23.9 35.9#

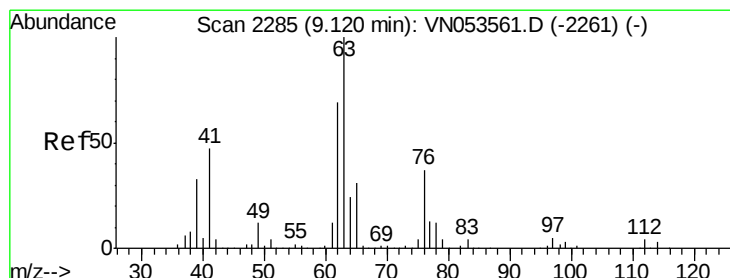
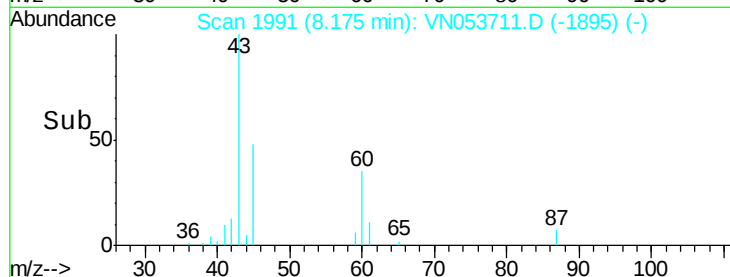
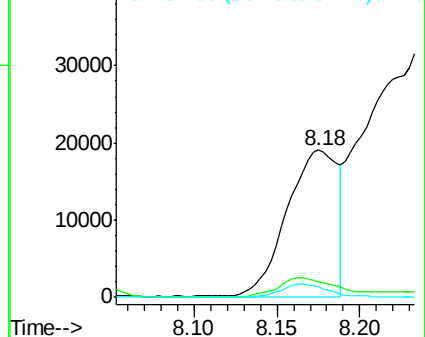
87 8.1 11.0 16.6#



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: 0.264 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN053711.D

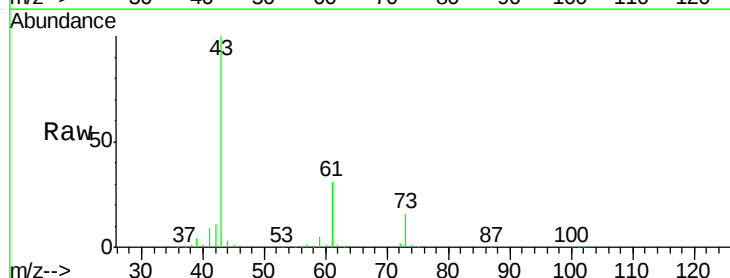
Acq: 11 Feb 2019 18:07

Tgt Ion: 63 Resp: 2246

Ion Ratio Lower Upper

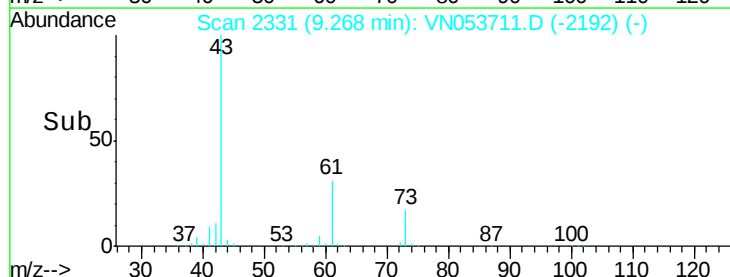
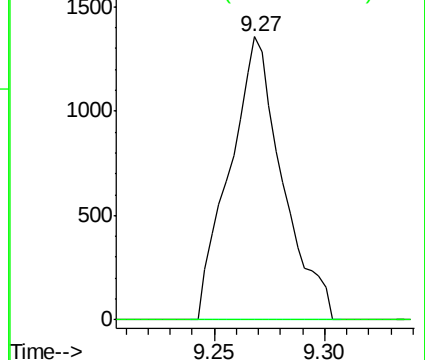
63 100

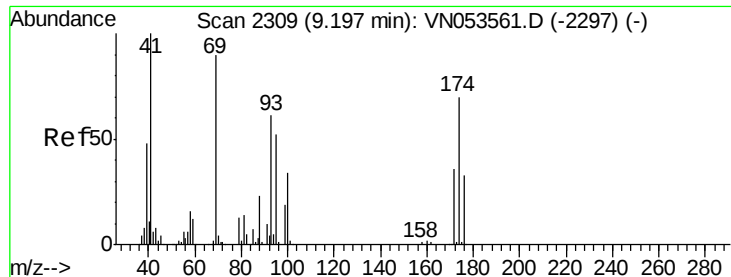
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

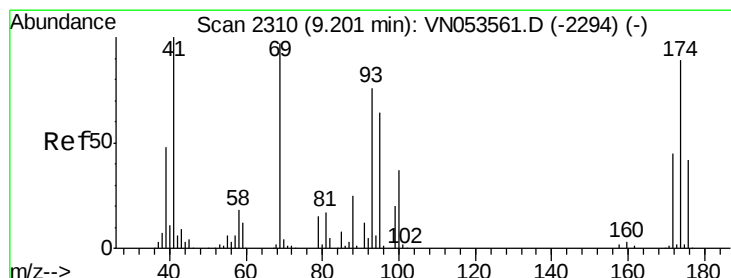
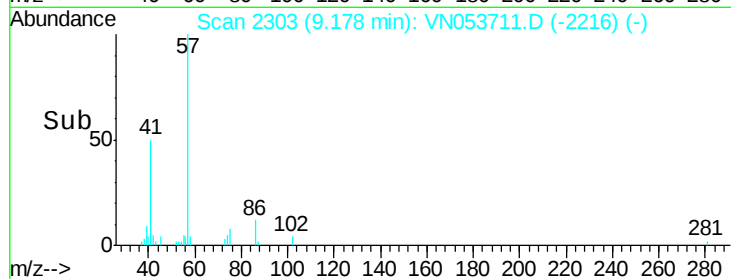
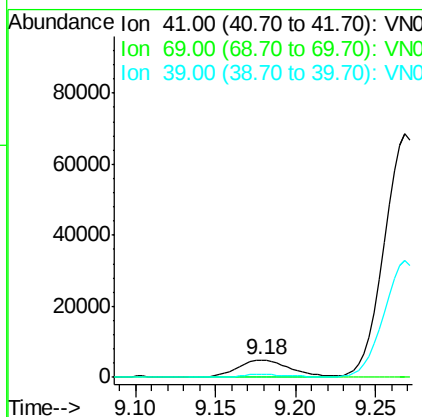
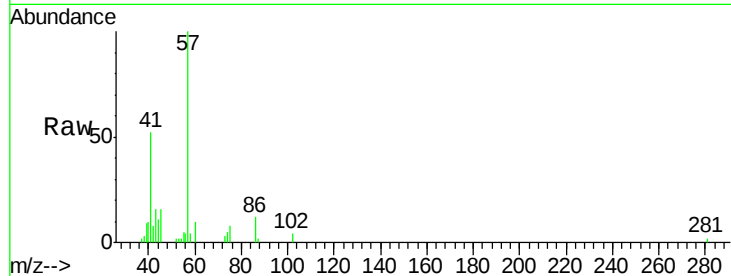




#48
Methvl methacrylate
Concen: 2.015 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN053711.D
Acq: 11 Feb 2019 18:07

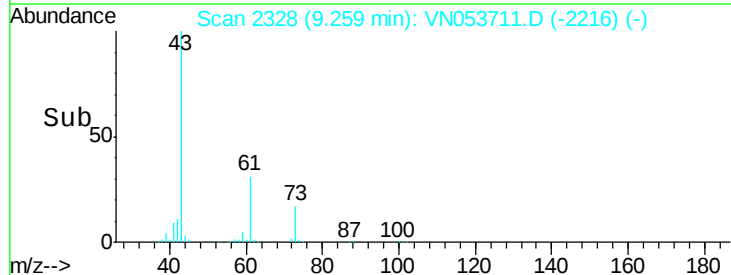
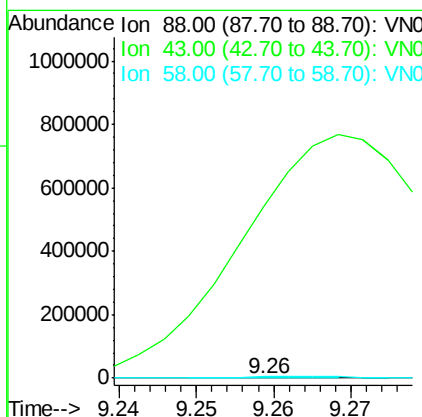
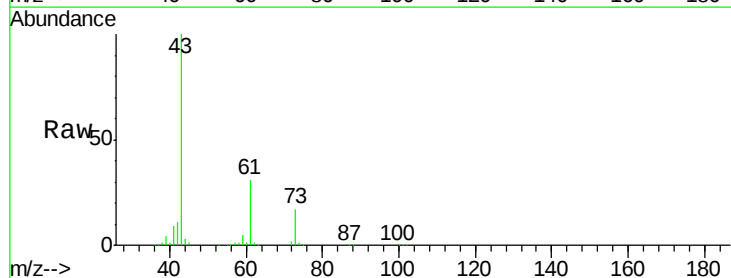
Instrument :
MSVOA_N
ClientSampleId :
M-9-D

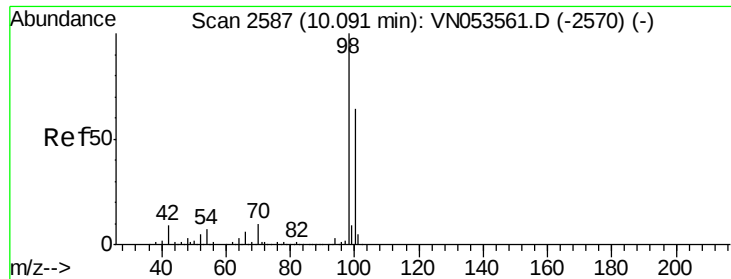
Tot Ion: 41 Resp: 11175
Ion Ratio Lower Upper
41 100
69 0.0 73.8 110.6#
39 0.0 40.0 60.0#



#49
1,4-Dioxane
Concen: 40.341 ug/l
RT: 9.26 min Scan# 2328
Delta R.T. 0.06 min
Lab File: VN053711.D
Acq: 11 Feb 2019 18:07

Tgt Ion: 88 Resp: 104
Ion Ratio Lower Upper
88 100
43 1509348.1 27.8 41.6#
58 7229.8 56.5 84.7#





#50

Toluene-d8

Concen: 51.492 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053711.D

Acq: 11 Feb 2019 18:07

Instrument :

MSVOA_N

ClientSampled :

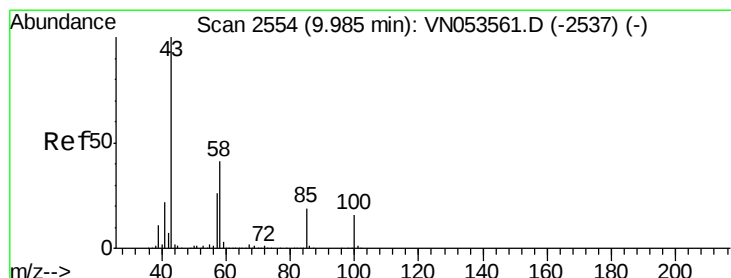
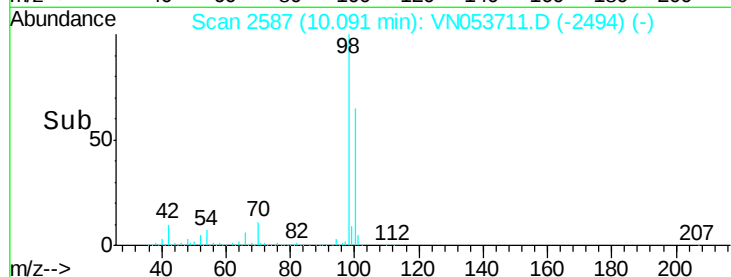
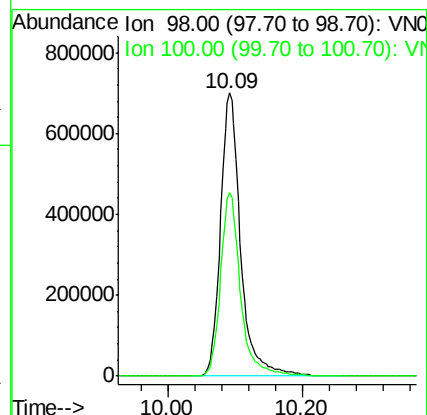
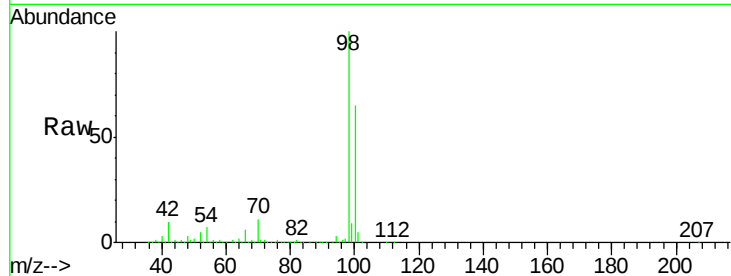
M-9-D

Tot Ion: 98 Resp: 1460119

Ion Ratio Lower Upper

98 100

100 64.6 51.4 77.0



#51

4-Methyl-2-Pentanone

Concen: 1.599 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053711.D

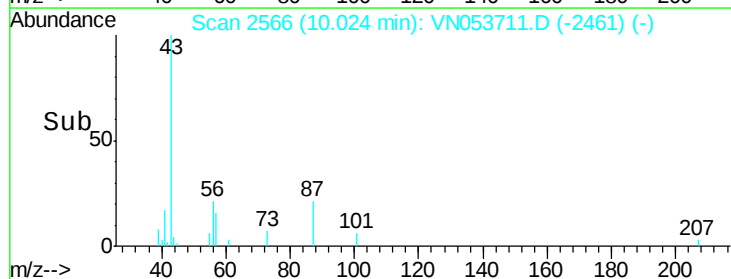
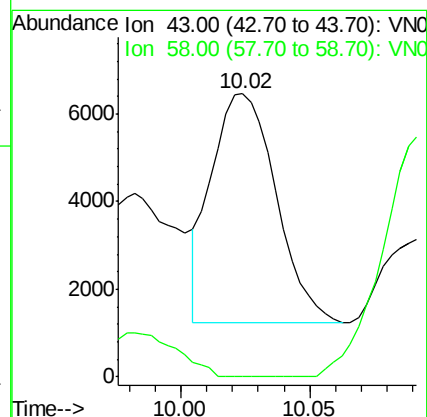
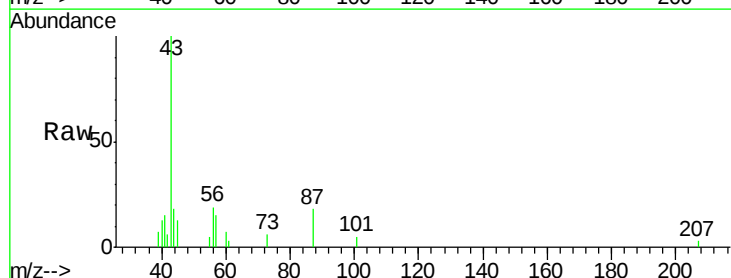
Acq: 11 Feb 2019 18:07

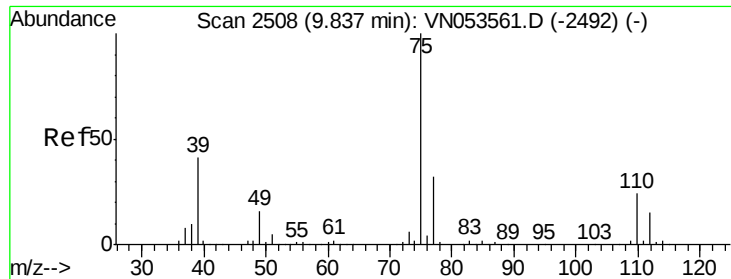
Tgt Ion: 43 Resp: 9131

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#

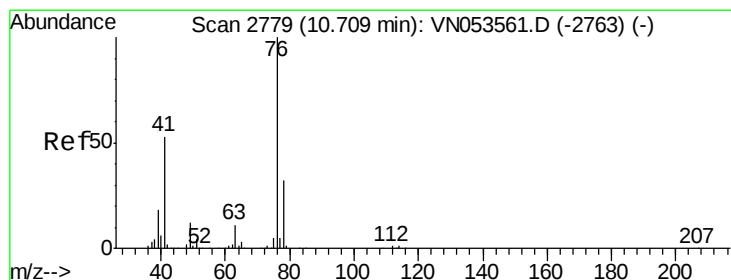
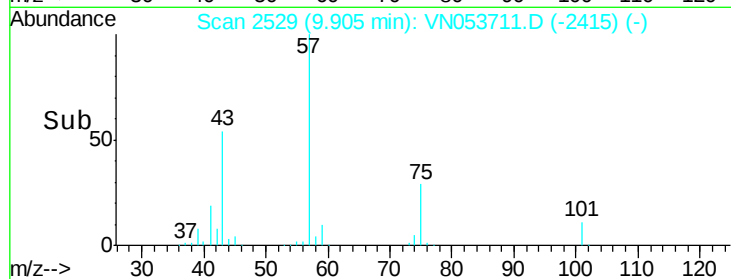
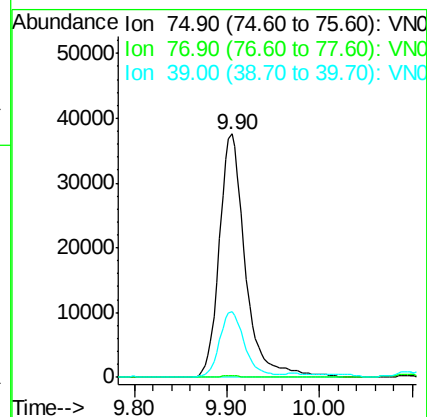
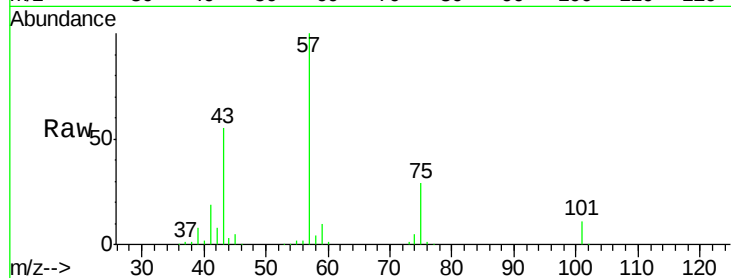




#54
 cis-1,3-Dichloropropene
 Concen: 5.797 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN053711.D
 Acq: 11 Feb 2019 18:07

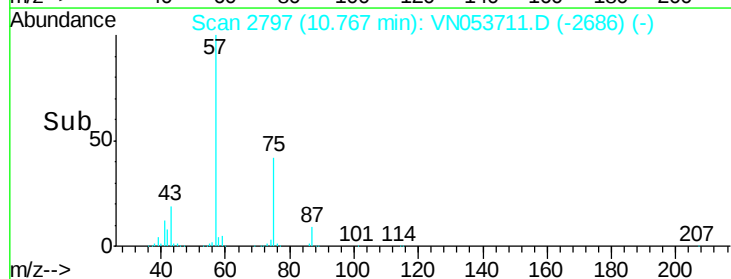
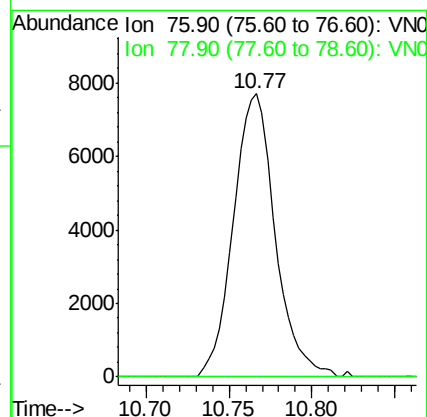
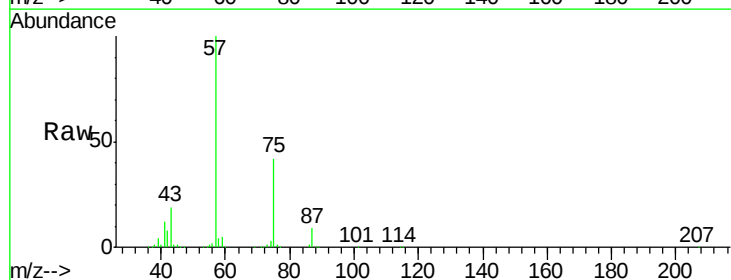
Instrument :
 MSVOA_N
 ClientSampled :
 M-9-D

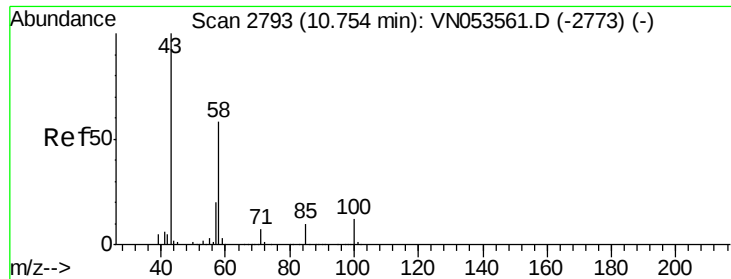
Tot Ion: 75 Resp: 73263
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.8 38.6#
 39 27.0 33.4 50.0#



#57
 1,3-Dichloropropane
 Concen: 1.113 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN053711.D
 Acq: 11 Feb 2019 18:07

Tgt Ion: 76 Resp: 13510
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

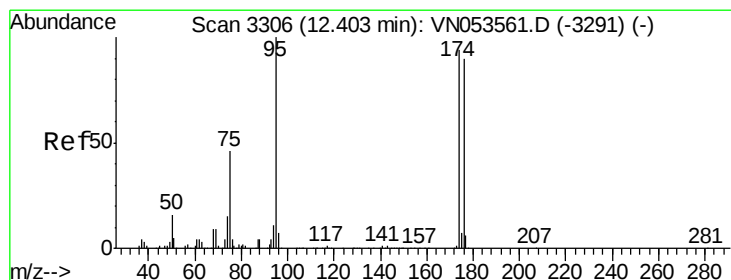
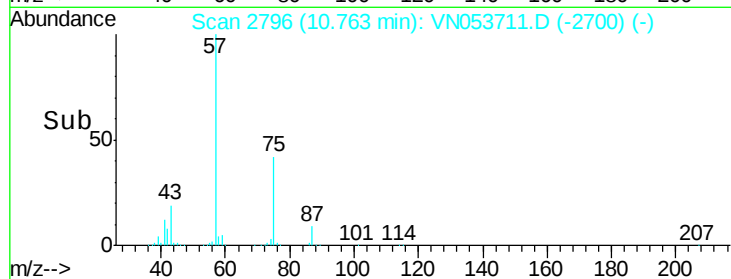
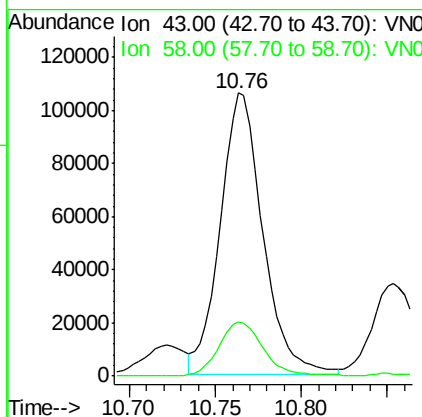
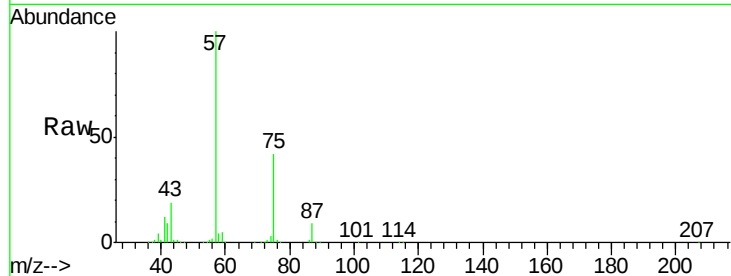




#59
2-Hexanone
Concen: 47.172 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053711.D
Acq: 11 Feb 2019 18:07

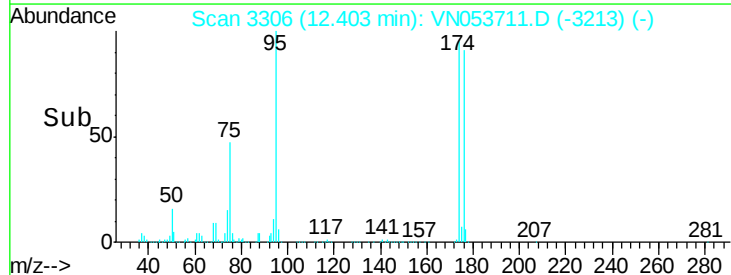
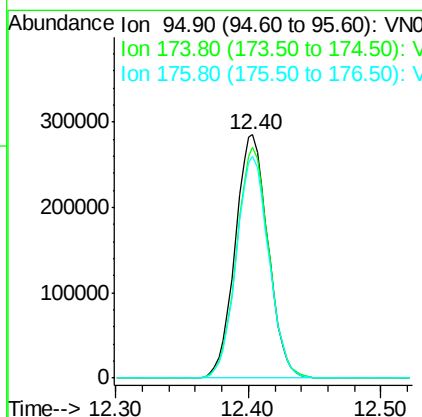
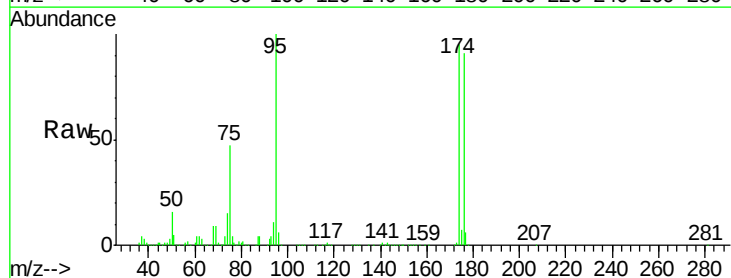
Instrument :
MSVOA_N
ClientSampleId :
M-9-D

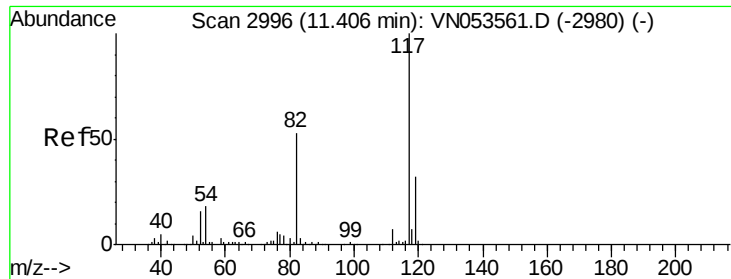
Tot Ion: 43 Resp: 182868
Ion Ratio Lower Upper
43 100
58 20.3 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: 51.843 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053711.D
Acq: 11 Feb 2019 18:07

Tgt Ion: 95 Resp: 490294
Ion Ratio Lower Upper
95 100
174 93.7 0.0 183.2
176 90.2 0.0 177.4

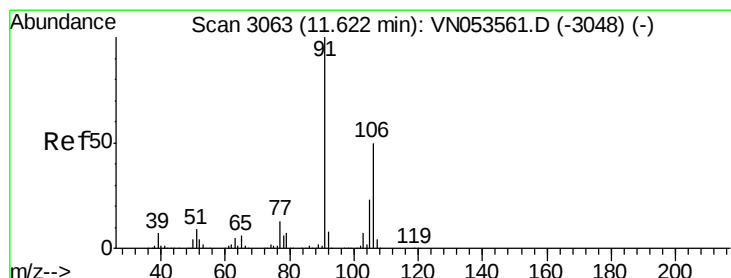
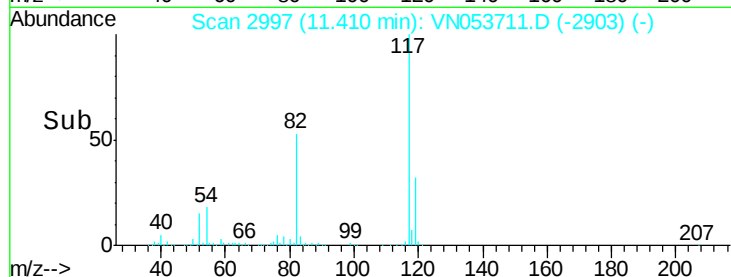
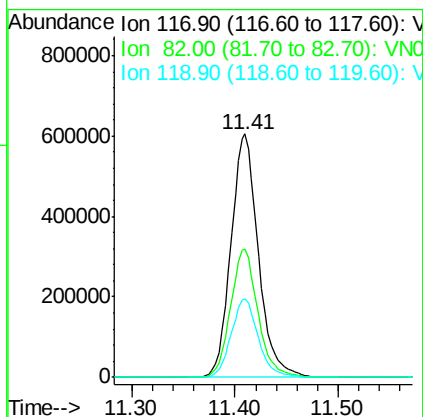
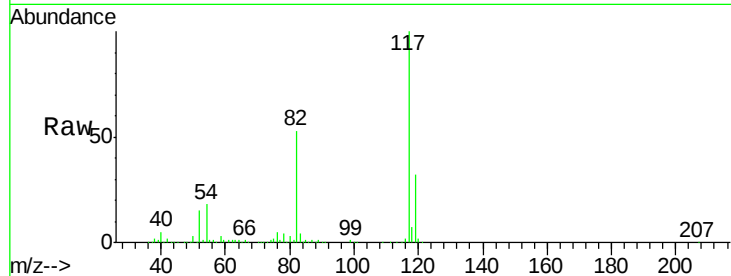




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053711.D
Acq: 11 Feb 2019 18:07

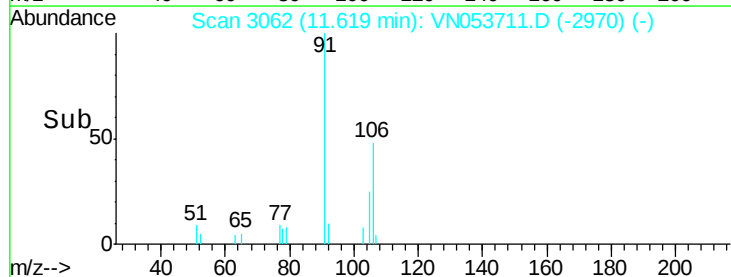
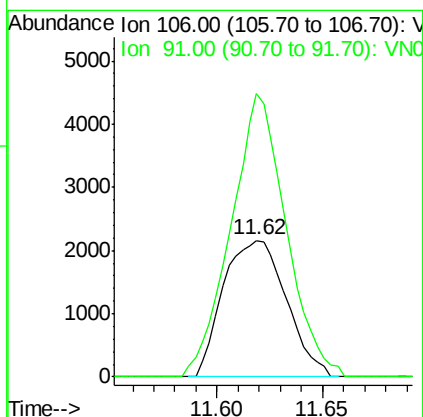
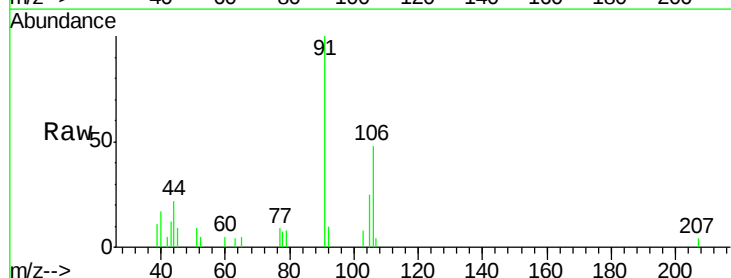
Instrument :
MSVOA_N
ClientSampled :
M-9-D

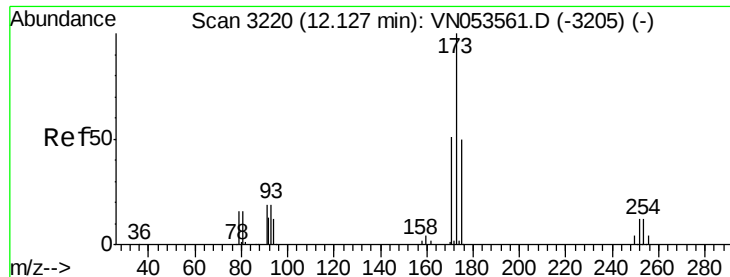
Tot Ion:117 Resp: 1117735
Ion Ratio Lower Upper
117 100
82 52.8 42.9 64.3
119 32.2 26.0 39.0



#68
m/p-Xylenes
Concen: 0.301 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN053711.D
Acq: 11 Feb 2019 18:07

Tgt Ion:106 Resp: 4480
Ion Ratio Lower Upper
106 100
91 181.4 161.4 242.2





#71

Bromoform

Concen: 0.557 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN053711.D

Acq: 11 Feb 2019 18:07

Instrument :

MSVOA_N

ClientSampled :

M-9-D

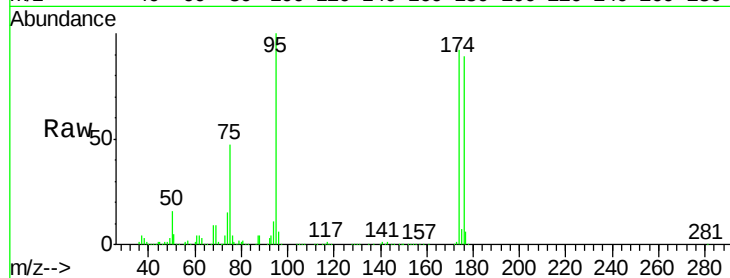
Tot Ion:173 Resp: 3164

Ion Ratio Lower Upper

173 100

175 893.6 24.6 74.0#

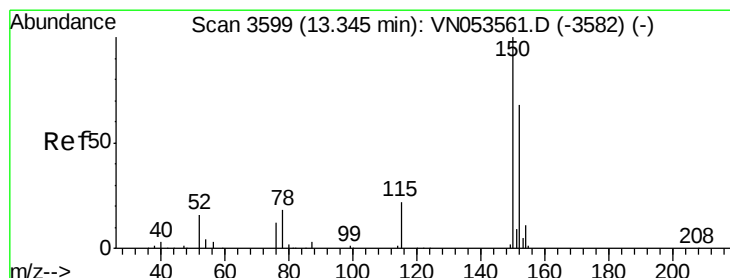
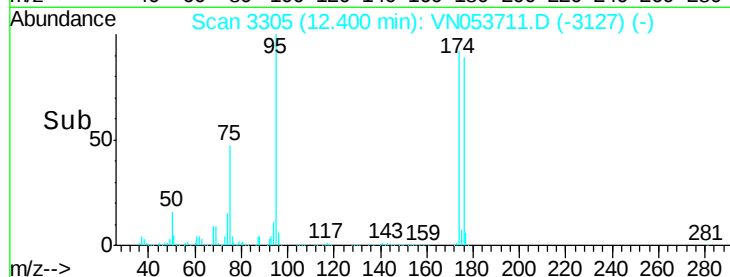
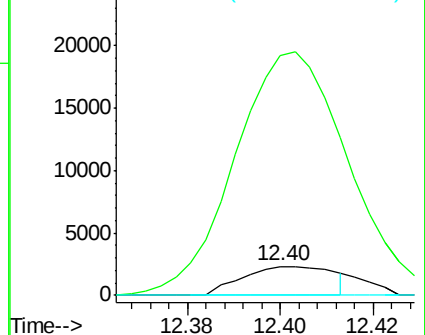
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053711.D

Acq: 11 Feb 2019 18:07

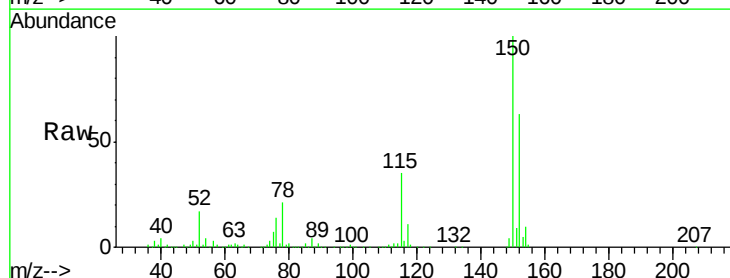
Tgt Ion:152 Resp: 467299

Ion Ratio Lower Upper

152 100

115 55.8 27.8 83.4

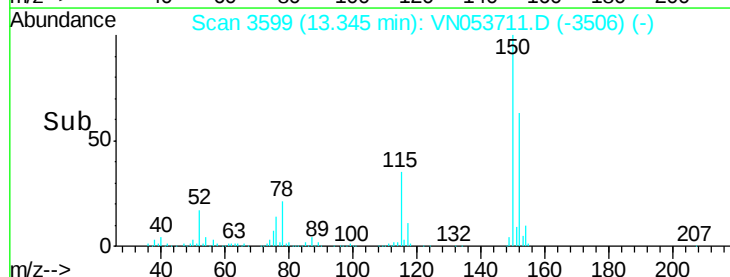
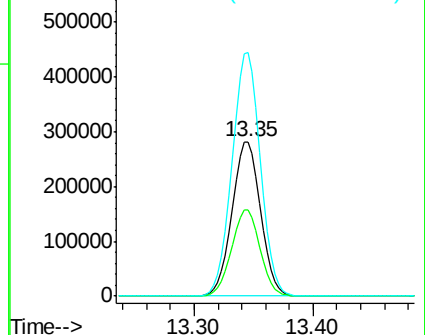
150 156.8 0.0 349.0

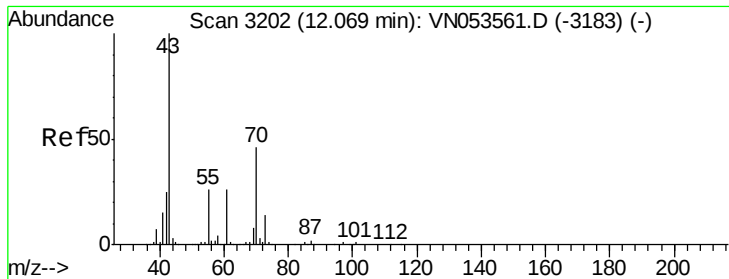


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.481 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053711.D

Acq: 11 Feb 2019 18:07

Instrument :

MSVOA_N

ClientSampleId :

M-9-D

Tot Ion: 43 Resp: 19598

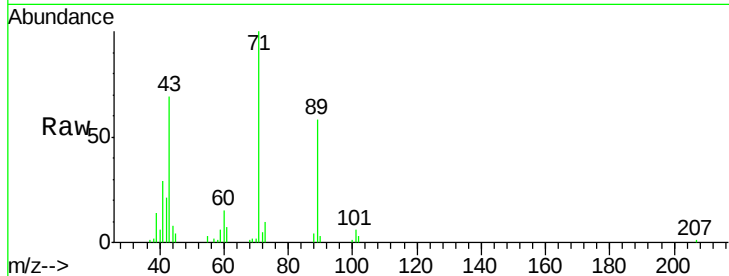
Ion Ratio Lower Upper

43 100

70 2.5 35.4 53.2#

55 4.9 20.9 31.3#

61 10.4 20.5 30.7#

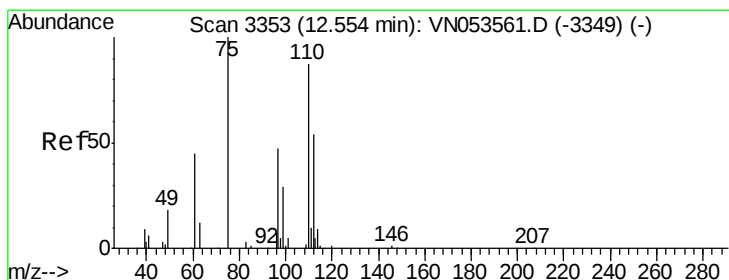
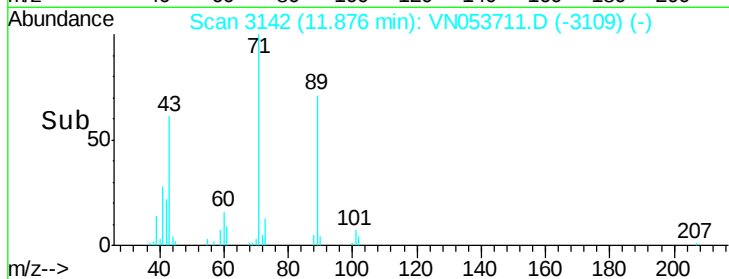
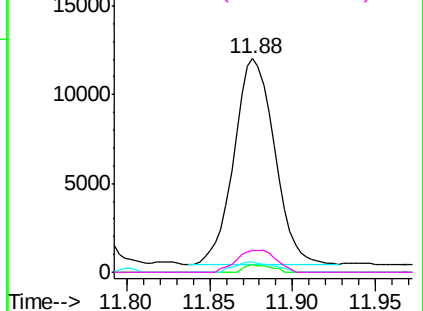


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 38.033 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053711.D

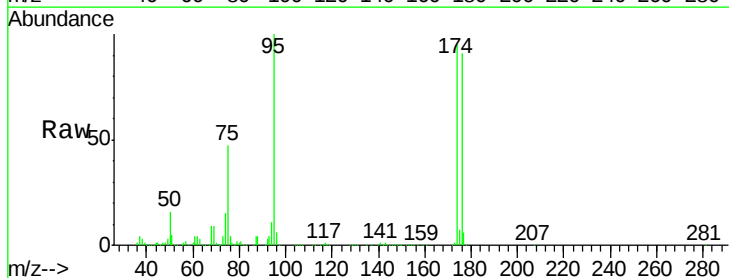
Acq: 11 Feb 2019 18:07

Tgt Ion: 75 Resp: 228283

Ion Ratio Lower Upper

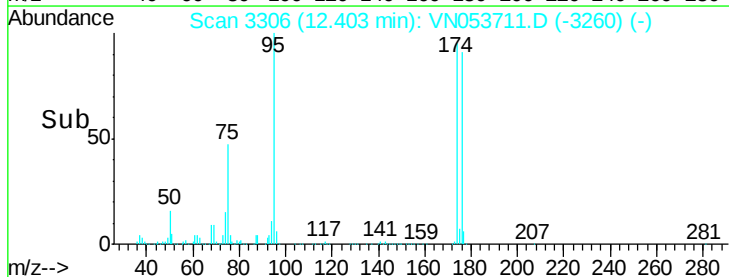
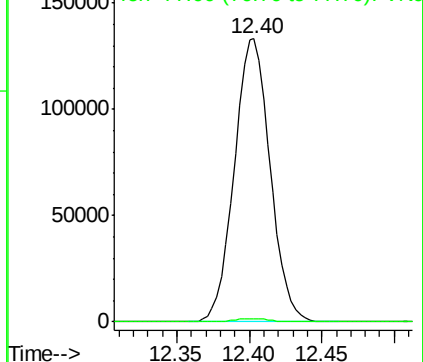
75 100

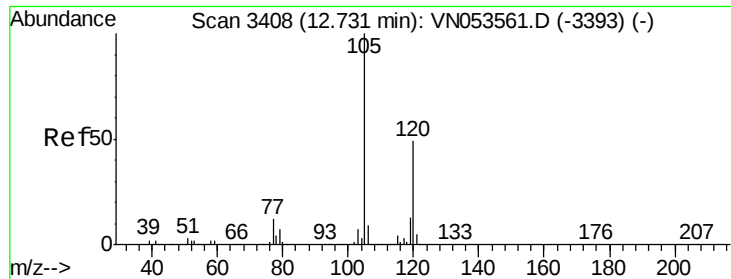
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#80

1,3,5-Trimethylbenzene

Concen: 0.343 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053711.D

Acq: 11 Feb 2019 18:07

Instrument :

MSVOA_N

ClientSampled :

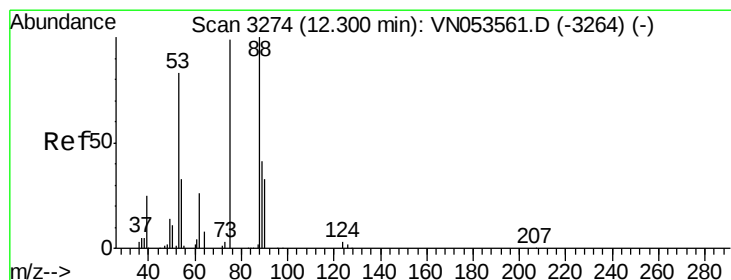
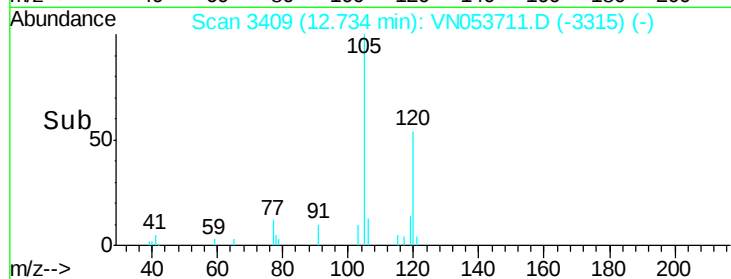
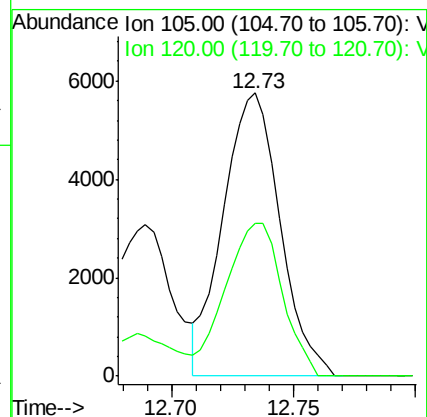
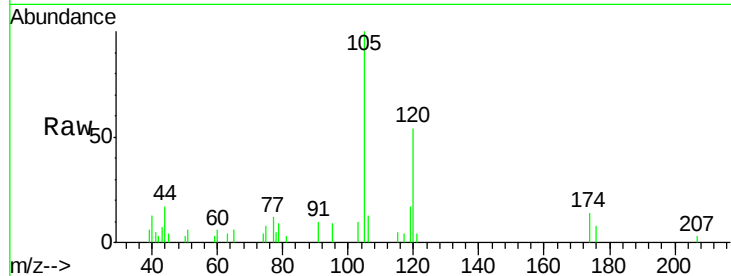
M-9-D

Tot Ion:105 Resp: 9337

Ion Ratio Lower Upper

105 100

120 53.7 24.9 74.6



#81

trans-1,4-Dichloro-2-butene

Concen: 106.947 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053711.D

Acq: 11 Feb 2019 18:07

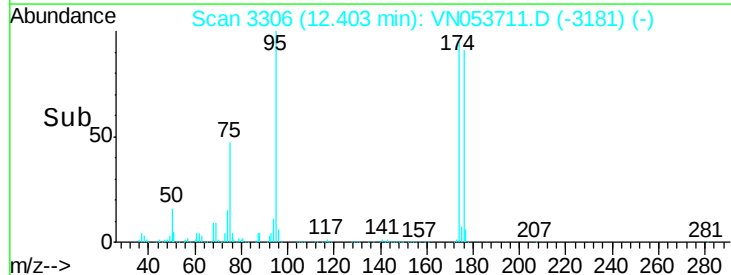
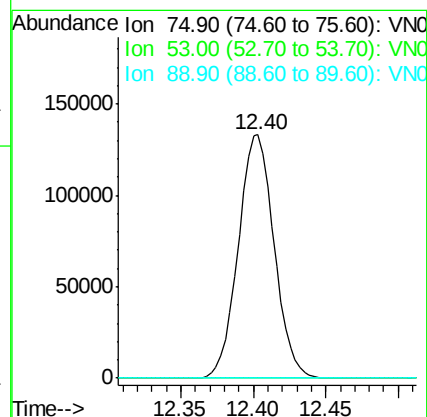
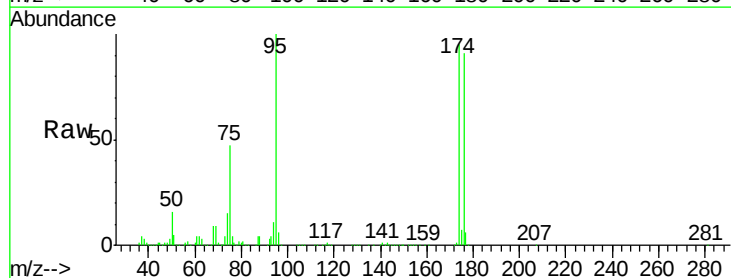
Tgt Ion: 75 Resp: 228283

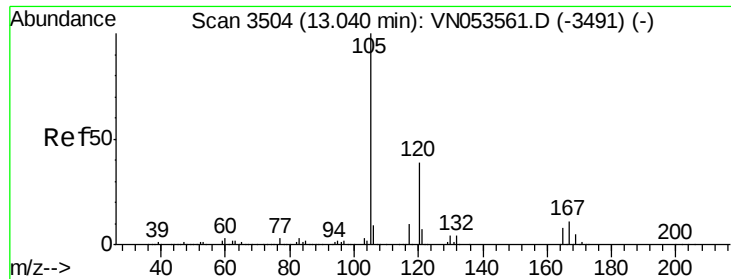
Ion Ratio Lower Upper

75 100

53 0.1 69.8 104.6#

89 0.0 35.6 53.4#





#84

1,2,4-Trimethylbenzene

Concen: 0.805 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN053711.D

Acq: 11 Feb 2019 18:07

Instrument :

MSVOA_N

ClientSampleId :

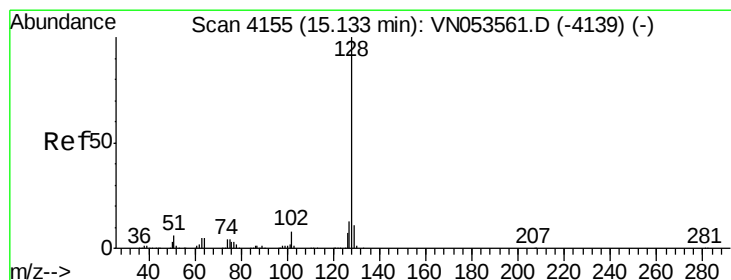
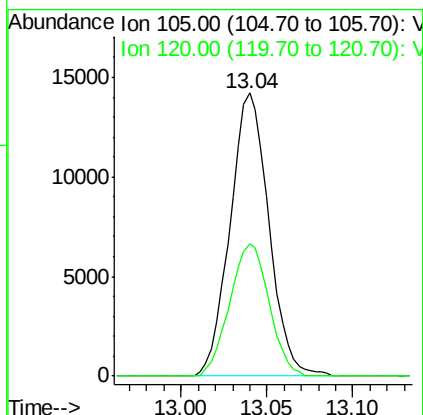
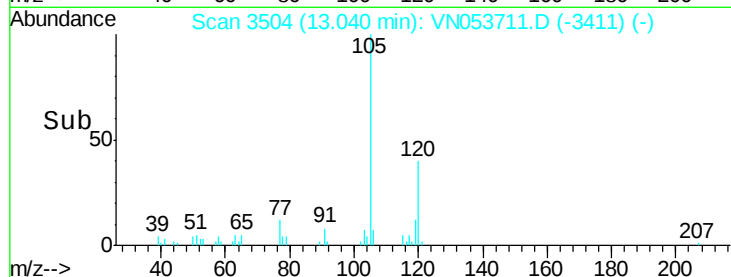
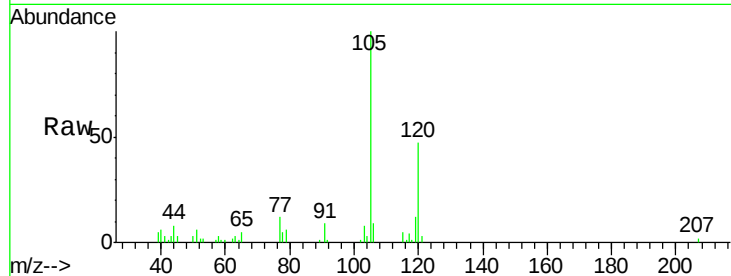
M-9-D

Tot Ion:105 Resp: 22351

Ion Ratio Lower Upper

105 100

120 47.3 23.0 69.0



#95

Naphthalene

Concen: 2.935 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053711.D

Acq: 11 Feb 2019 18:07

Tgt Ion:128 Resp: 25499

Ion Ratio Lower Upper

128 100

127 12.8 10.3 15.5

129 11.6 8.6 13.0

