

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021319\
 Data File : VN053756.D
 Acq On : 13 Feb 2019 15:42
 Operator : JC/SP
 Sample : K1343-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 JC-02-021119-G

Quant Time: Feb 14 00:13:40 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	714676	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1190331	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1103439	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	453946	50.00	ug/l	0.00

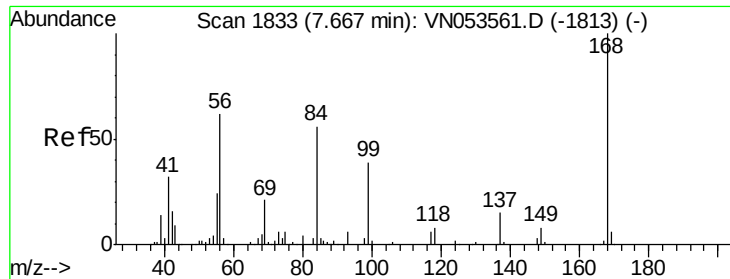
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	384617	53.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.30%	
35) Dibromofluoromethane	7.59	113	380056	50.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.06%	
50) Toluene-d8	10.09	98	1439114	50.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.92%	
62) 4-Bromofluorobenzene	12.40	95	501916	53.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.58%	

Target Compounds

						Qvalue
14) Allyl chloride	4.55	41	7647	0.726	ug/l #	27
16) Acetone	3.82	43	15465	8.409	ug/l	100
20) Methylene Chloride	4.56	84	444680	57.635	ug/l	99
25) 2-Butanone	6.85	43	5120	1.952	ug/l	94
29) Tetrahydrofuran	7.21	42	1322	0.785	ug/l #	55
31) Cyclohexane	7.67	56	10317	0.684	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	42722	3.982	ug/l #	48
37) Ethyl Acetate	6.85	43	5120	0.854	ug/l #	67
38) Carbon Tetrachloride	7.67	117	57249	5.296	ug/l #	16
43) Isopropyl Acetate	8.17	43	32626	2.819	ug/l #	80
45) 1,2-Dichloropropane	9.26	63	1911	0.226	ug/l #	43
48) Methyl methacrylate	9.18	41	8687	1.572	ug/l #	12
49) 1,4-Dioxane	9.28	88	65	39.878	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	8509	1.496	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	66443	5.279	ug/l #	62
57) 1,3-Dichloropropane	10.77	76	12796	1.058	ug/l #	43
59) 2-Hexanone	10.77	43	169922	44.011	ug/l #	50
68) m/p-Xylenes	11.62	106	3232	0.220	ug/l	96
69) o-Xylene	11.95	106	2973	0.209	ug/l	98
71) Bromoform	12.40	173	3503	0.624	ug/l #	1
74) N-amyl acetate	11.88	43	18051	2.352	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	230291	39.497	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	9502	0.359	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	230291	111.061	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	19817	0.735	ug/l	95
95) Naphthalene	15.13	128	17960	2.606	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

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ClientSampleId :

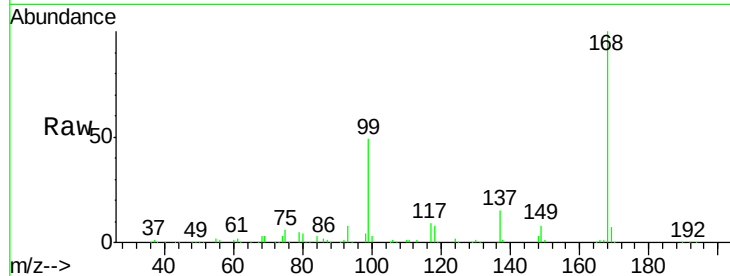
JC-02-021119-G

Tot Ion:168 Resp: 714676

Ion Ratio Lower Upper

168 100

99 48.9 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

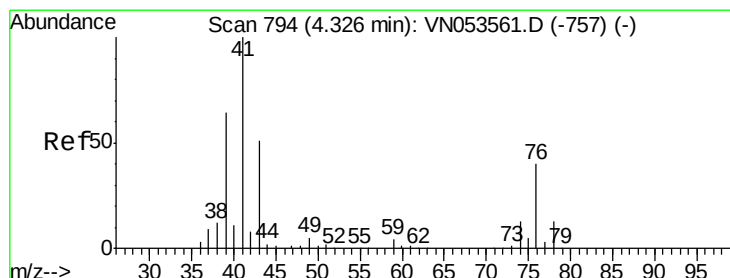
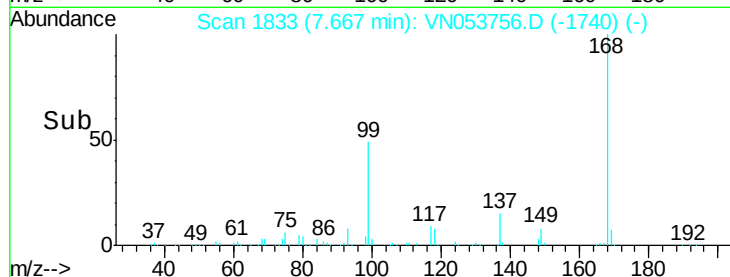
150000

100000

50000

0

Time-->



#14

Allyl chloride

Concen: 0.726 ug/l

RT: 4.55 min Scan# 863

Delta R.T. 0.22 min

Lab File: VN053756.D

Acq: 13 Feb 2019 15:42

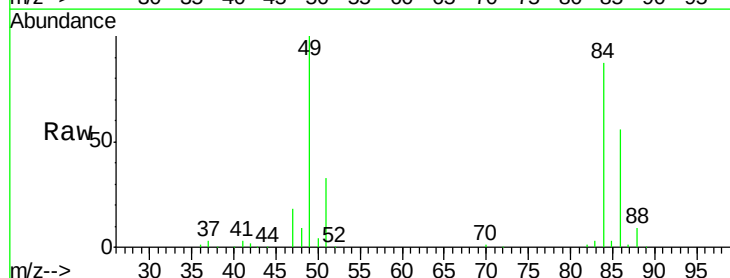
Tgt Ion: 41 Resp: 7647

Ion Ratio Lower Upper

41 100

39 0.0 48.9 73.3#

76 0.0 29.4 44.2#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO

4.55

6000

5000

4000

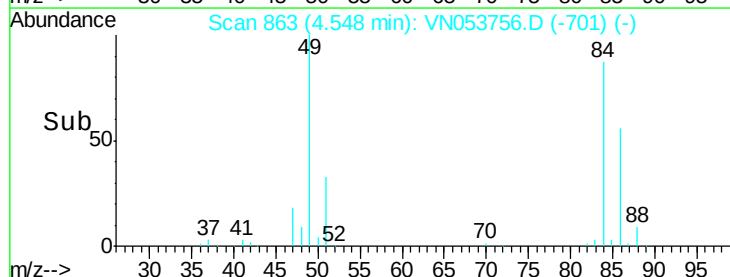
3000

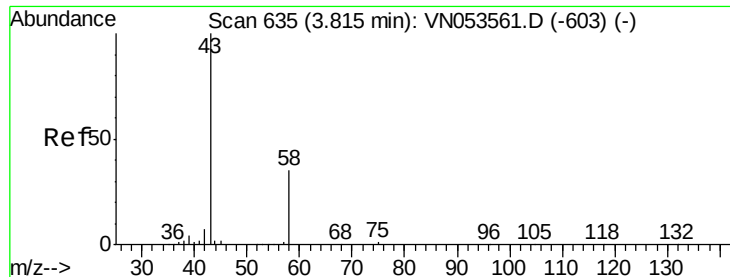
2000

1000

0

Time-->





#16

Acetone

Concen: 8.409 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053756.D

Acq: 13 Feb 2019 15:42

Instrument :

MSVOA_N

ClientSampleId :

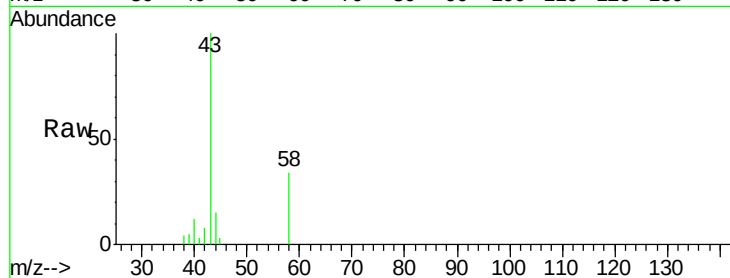
JC-02-021119-G

Tot Ion: 43 Resp: 15465

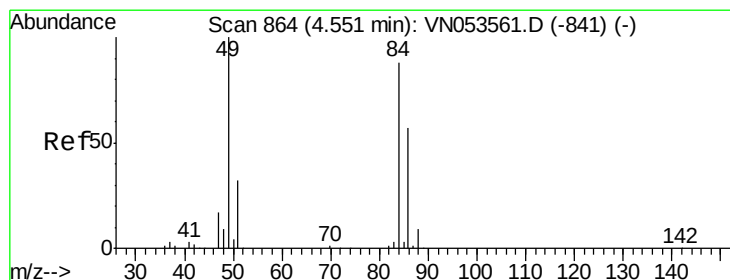
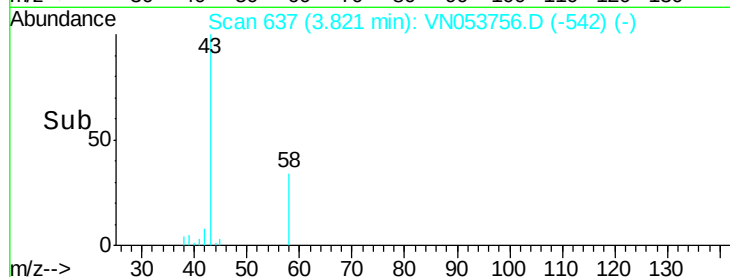
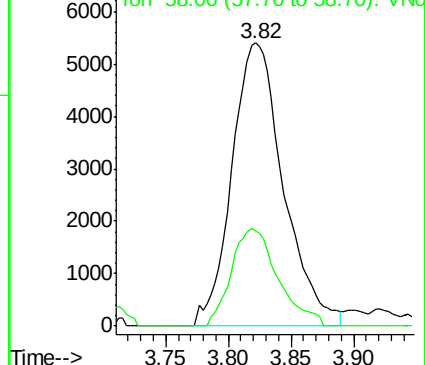
Ion Ratio Lower Upper

43 100

58 33.8 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN053756.D (-603) (-)



#20

Methylene Chloride

Concen: 57.635 ug/l

RT: 4.56 min Scan# 866

Delta R.T. 0.01 min

Lab File: VN053756.D

Acq: 13 Feb 2019 15:42

Tgt Ion: 84 Resp: 444680

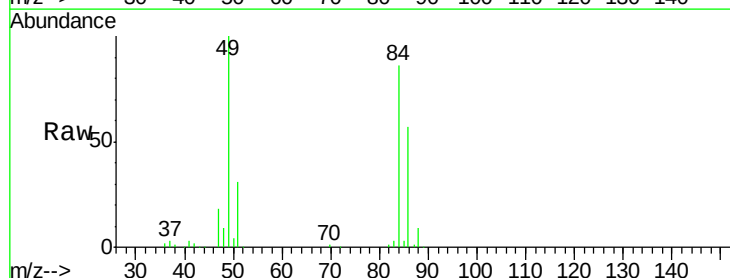
Ion Ratio Lower Upper

84 100

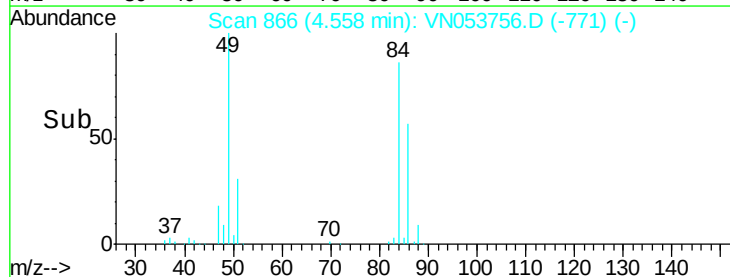
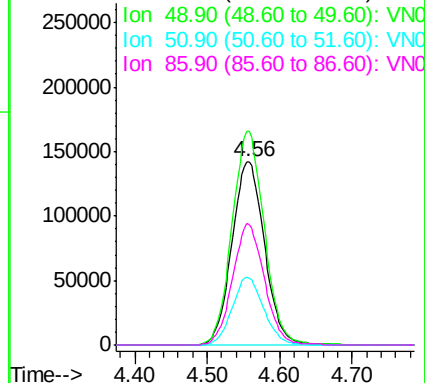
49 116.5 94.3 141.5

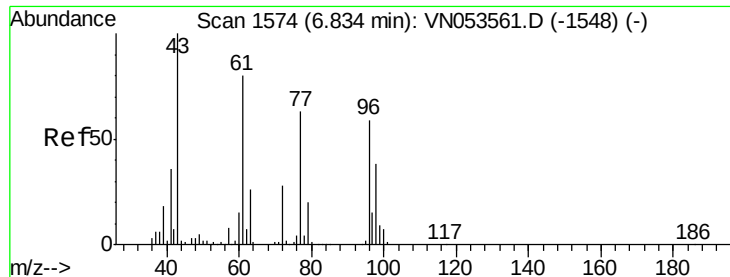
51 36.5 29.4 44.2

86 65.9 51.4 77.0



Abundance Ion 83.90 (83.60 to 84.60): VN053756.D (-771) (-)

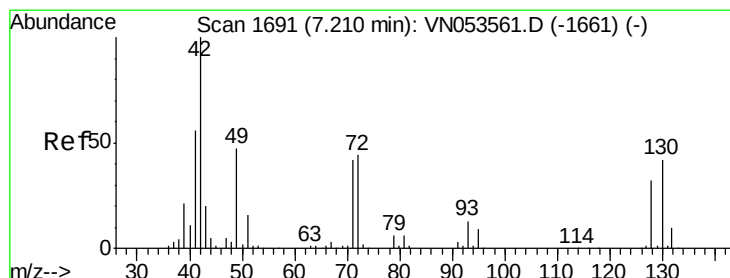
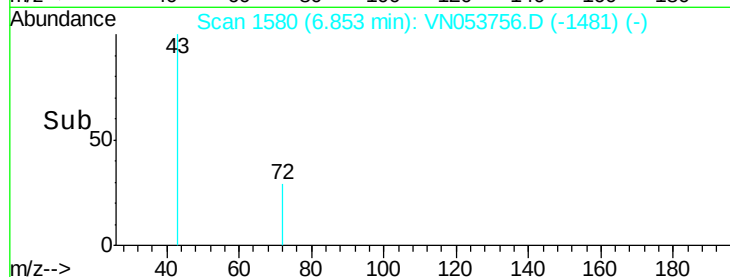
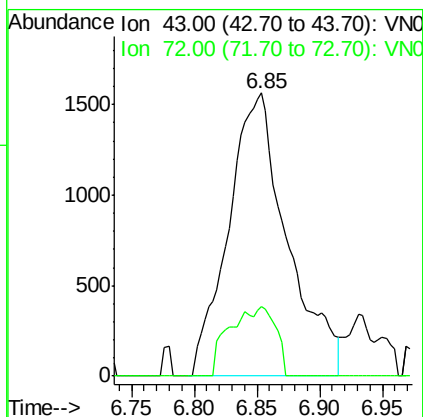
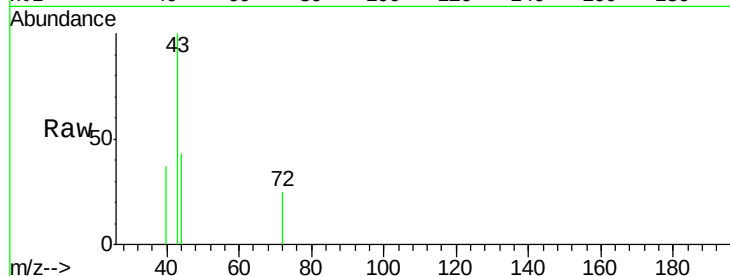




#25
2-Butanone
Concen: 1.952 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.02 min
Lab File: VN053756.D
Acq: 13 Feb 2019 15:42

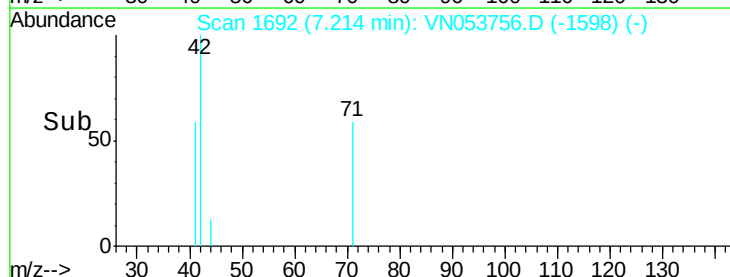
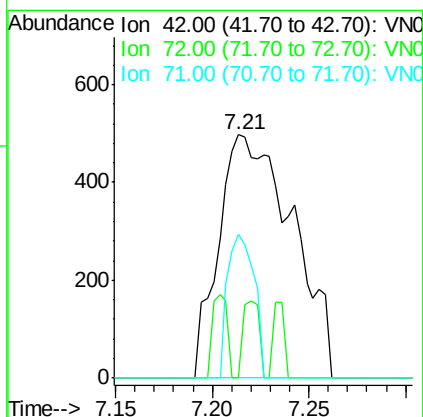
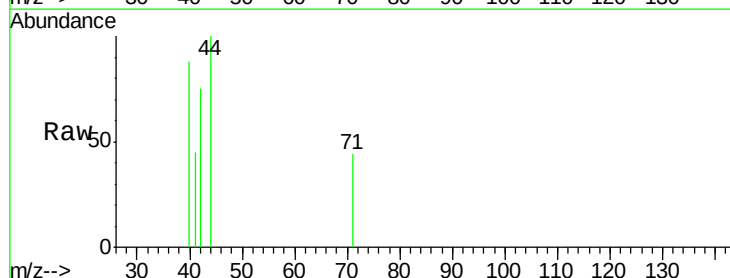
Instrument :
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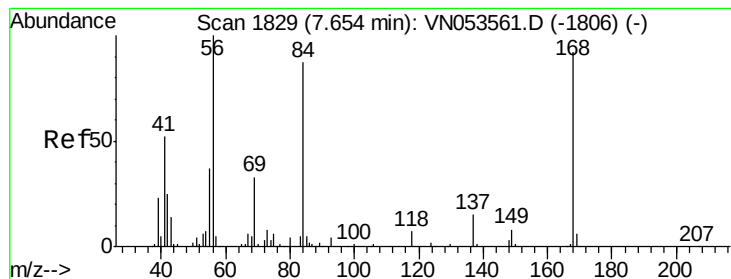
Tot Ion: 43 Resp: 5120
Ion Ratio Lower Upper
43 100
72 24.6 22.0 33.0



#29
Tetrahydrofuran
Concen: 0.785 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN053756.D
Acq: 13 Feb 2019 15:42

Tgt Ion: 42 Resp: 1322
Ion Ratio Lower Upper
42 100
72 6.7 35.2 52.8#
71 21.0 33.0 49.4#





#31

Cyclohexane

Concen: 0.684 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN053756.D

Acq: 13 Feb 2019 15:42

Instrument :

MSVOA_N

ClientSampleId :

JC-02-021119-G

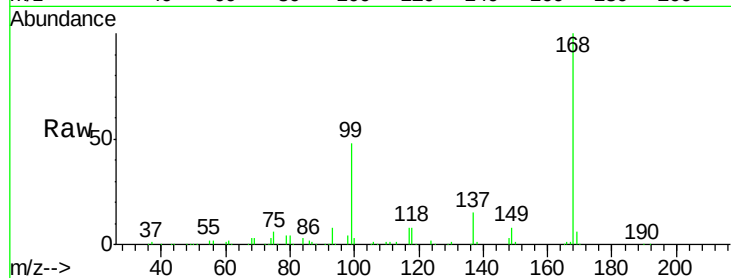
Tot Ion: 56 Resp: 10317

Ion Ratio Lower Upper

56 100

69 193.2 26.4 39.6#

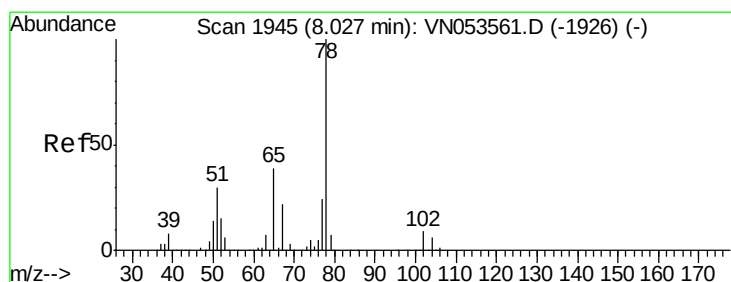
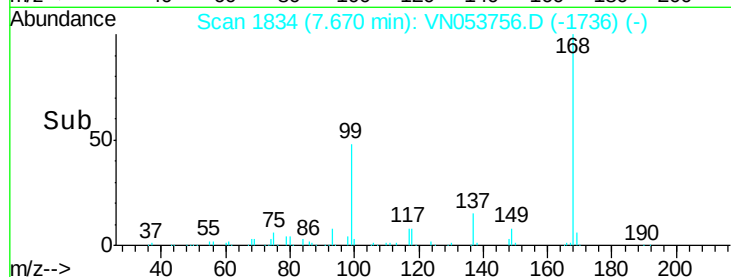
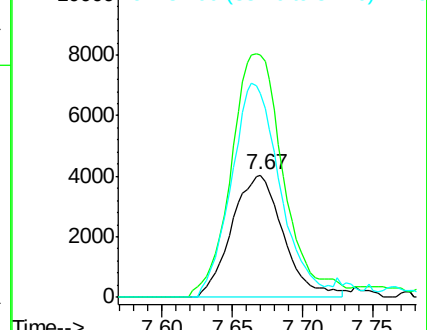
84 166.9 67.9 101.9#



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: 53.646 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN053756.D

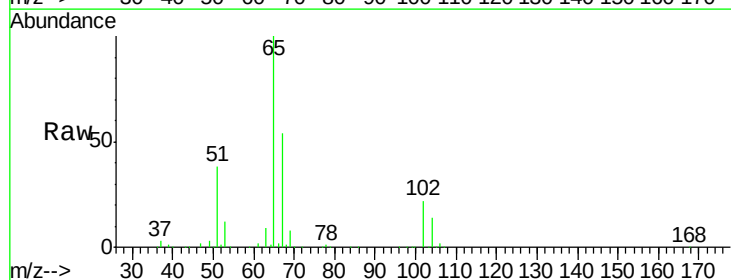
Acq: 13 Feb 2019 15:42

Tgt Ion: 65 Resp: 384617

Ion Ratio Lower Upper

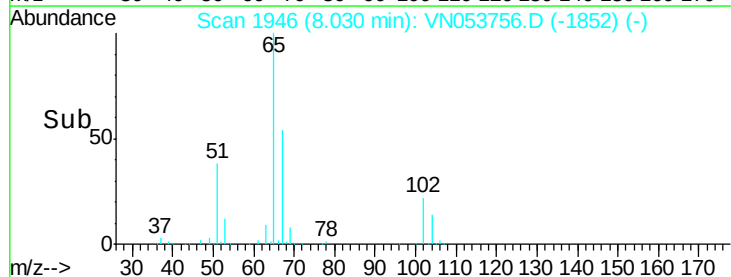
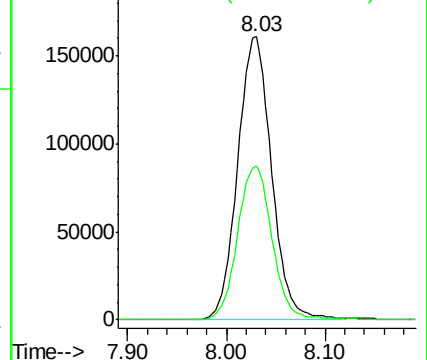
65 100

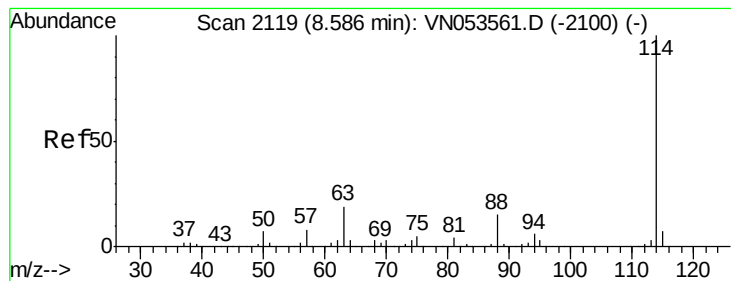
67 55.2 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053756.D

Acq: 13 Feb 2019 15:42

Instrument :

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ClientSampleId :

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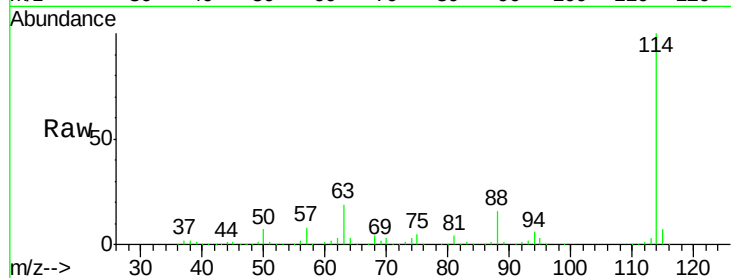
Tot Ion:114 Resp: 1190331

Ion Ratio Lower Upper

114 100

63 19.0 0.0 38.6

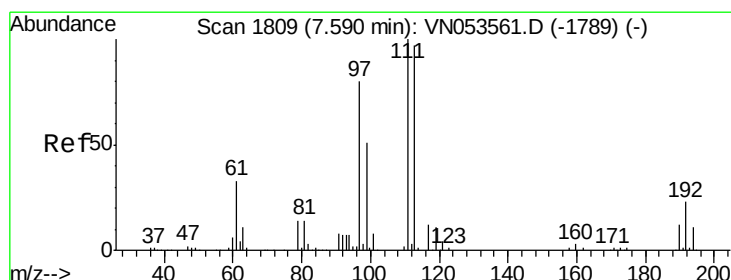
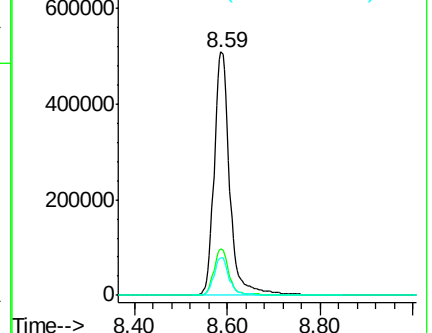
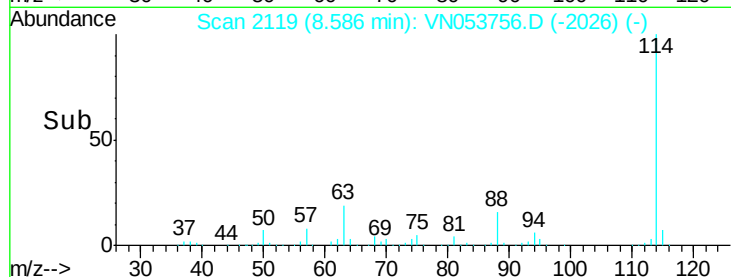
88 15.5 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.530 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053756.D

Acq: 13 Feb 2019 15:42

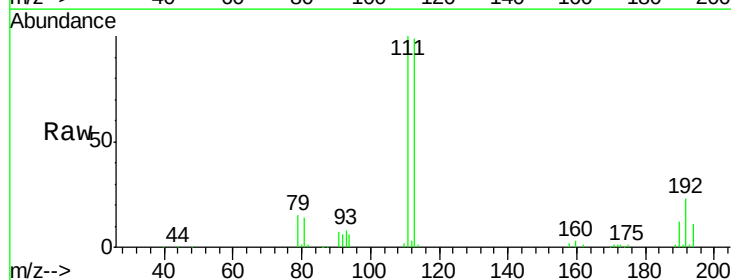
Tgt Ion:113 Resp: 380056

Ion Ratio Lower Upper

113 100

111 101.8 81.1 121.7

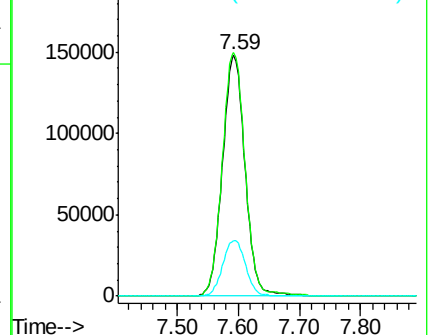
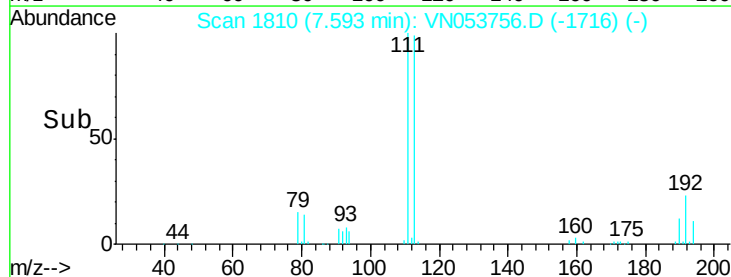
192 23.4 18.2 27.2

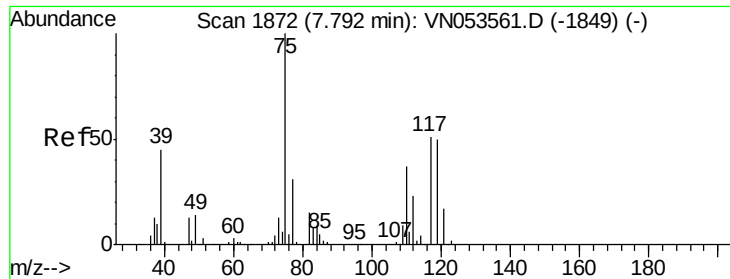


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.982 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053756.D

Acq: 13 Feb 2019 15:42

Instrument :

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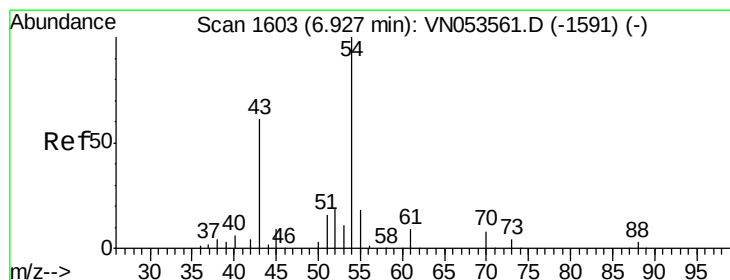
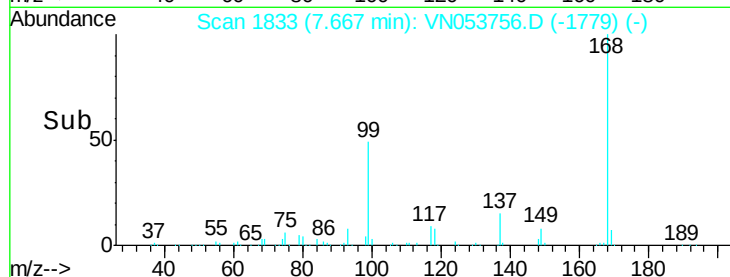
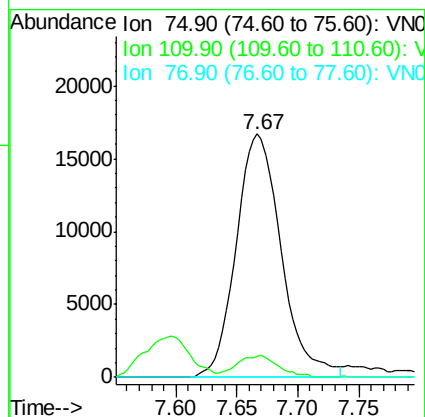
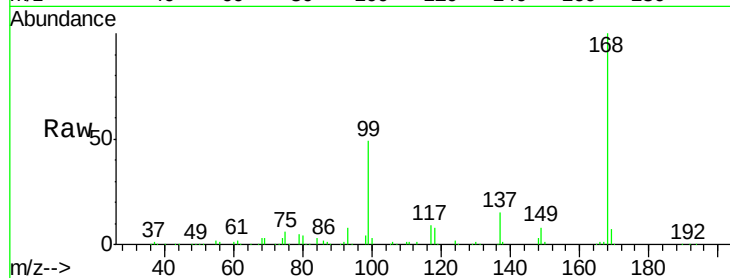
Tot Ion: 75 Resp: 42722

Ion Ratio Lower Upper

75 100

110 8.3 18.1 54.3#

77 0.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 0.854 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. -0.07 min

Lab File: VN053756.D

Acq: 13 Feb 2019 15:42

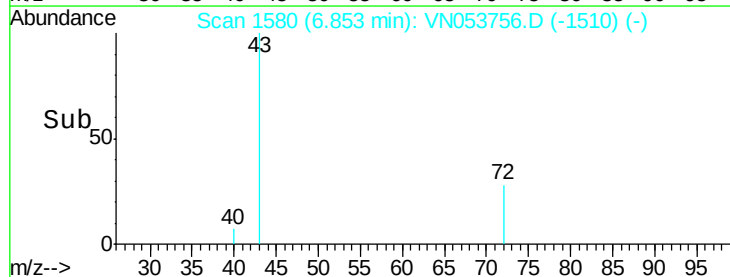
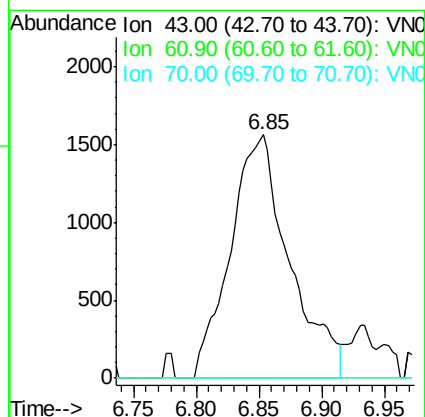
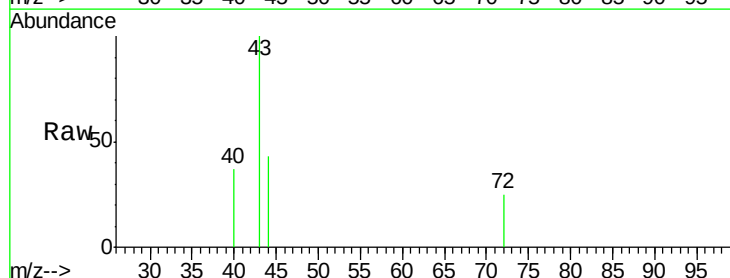
Tgt Ion: 43 Resp: 5120

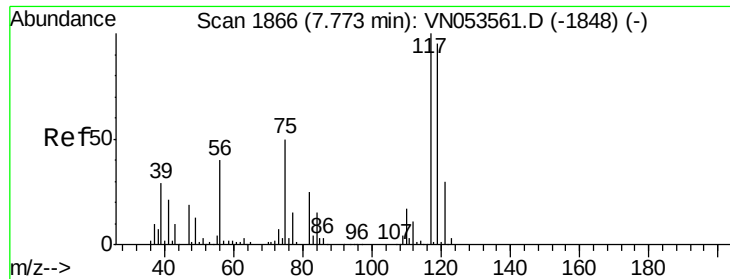
Ion Ratio Lower Upper

43 100

61 0.0 11.8 17.6#

70 0.0 8.6 12.8#

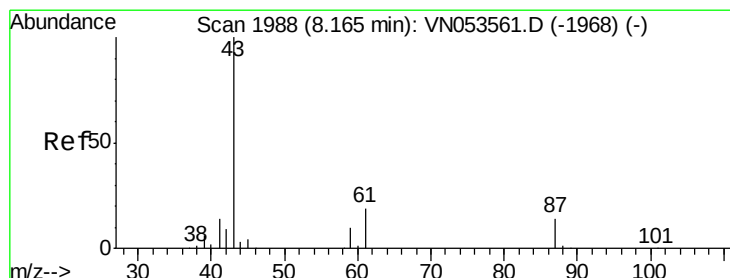
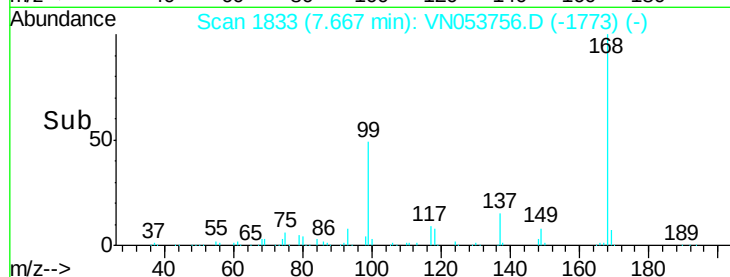
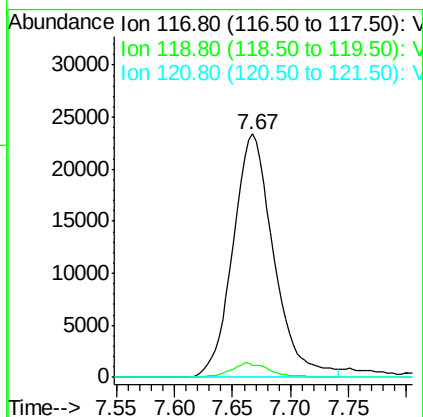
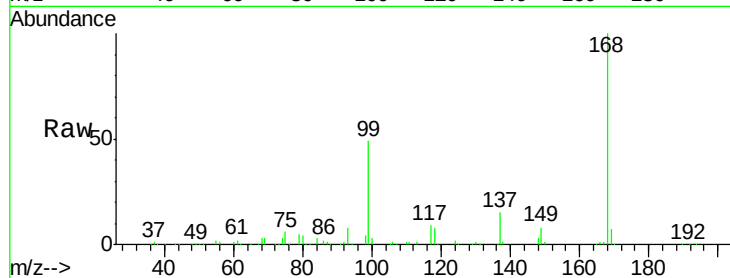




#38
Carbon Tetrachloride
Concen: 5.296 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN053756.D
Acq: 13 Feb 2019 15:42

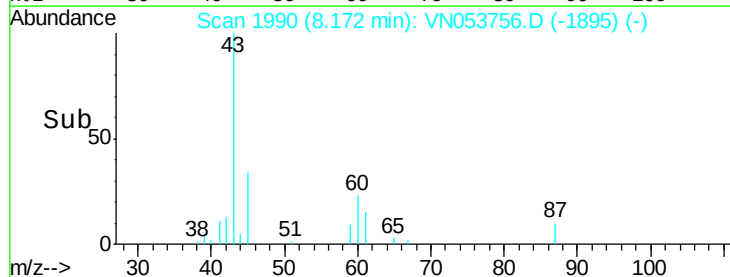
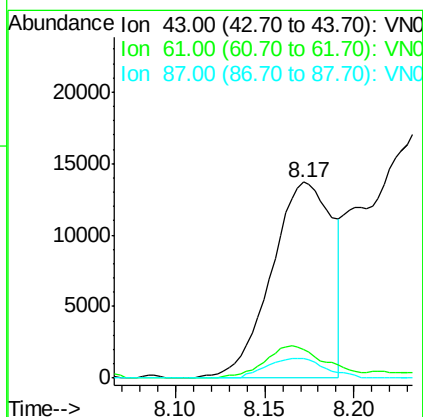
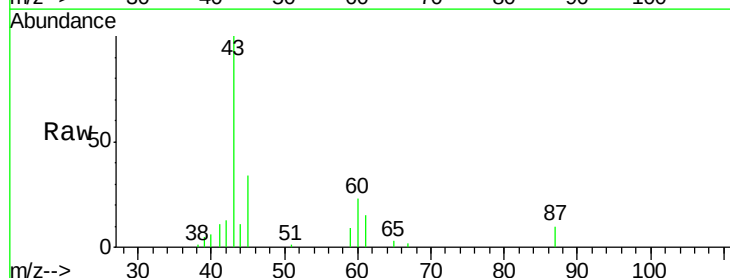
Instrument :
MSVOA_N
ClientSampleId :
JC-02-021119-G

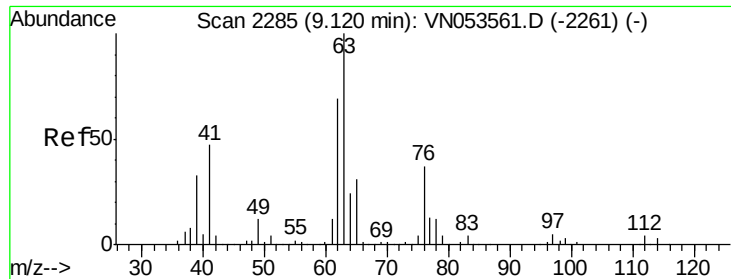
Tot Ion:117 Resp: 57249
Ion Ratio Lower Upper
117 100
119 5.1 77.2 115.8#
121 0.0 24.6 37.0#



#43
Isopropyl Acetate
Concen: 2.819 ug/l
RT: 8.17 min Scan# 1990
Delta R.T. 0.01 min
Lab File: VN053756.D
Acq: 13 Feb 2019 15:42

Tgt Ion: 43 Resp: 32626
Ion Ratio Lower Upper
43 100
61 16.3 23.9 35.9#
87 9.6 11.0 16.6#

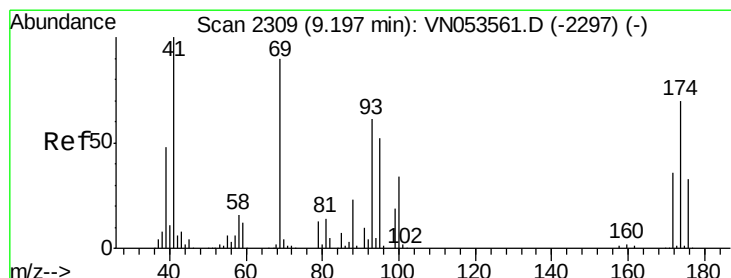
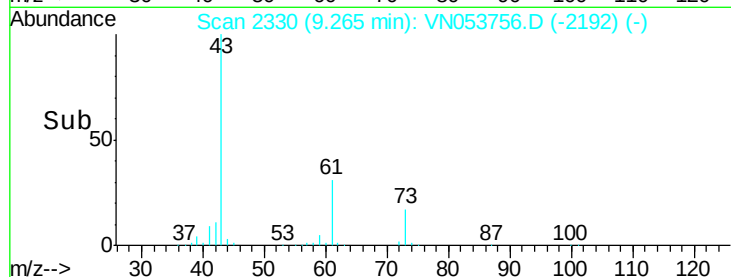
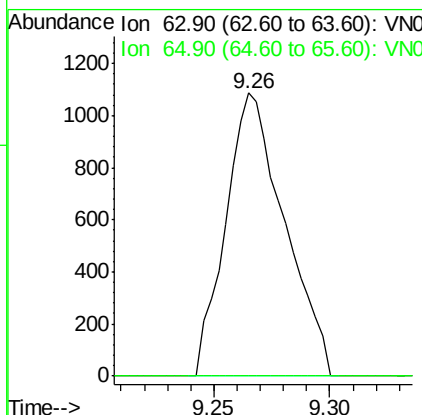
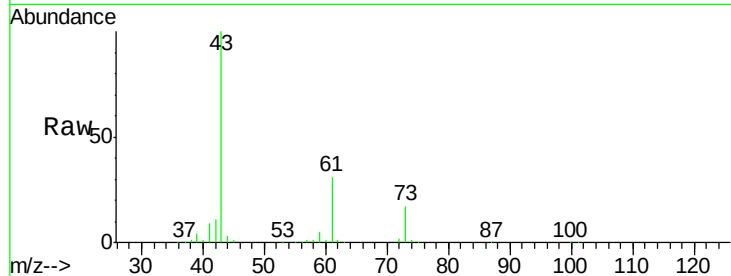




#45
 1,2-Dichloropropane
 Concen: 0.226 ug/l
 RT: 9.26 min Scan# 2330
 Delta R.T. 0.14 min
 Lab File: VN053756.D
 Acq: 13 Feb 2019 15:42

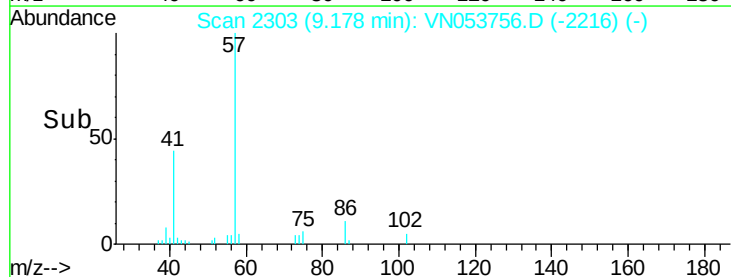
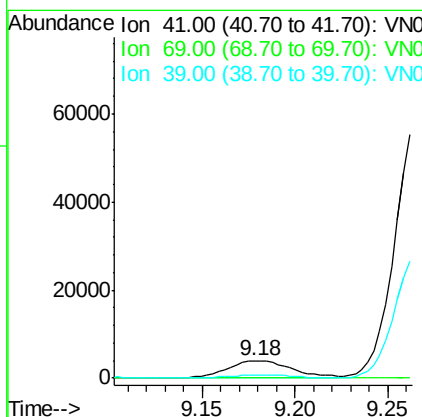
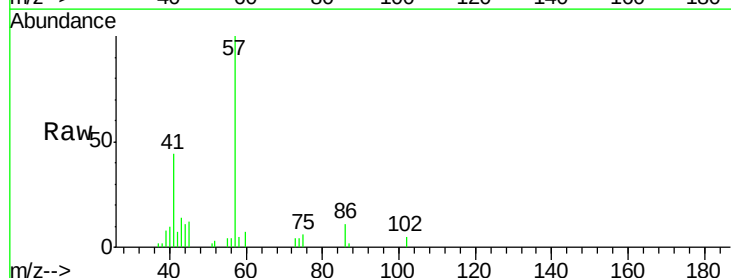
Instrument :
 MSVOA_N
 ClientSampleId :
 JC-02-021119-G

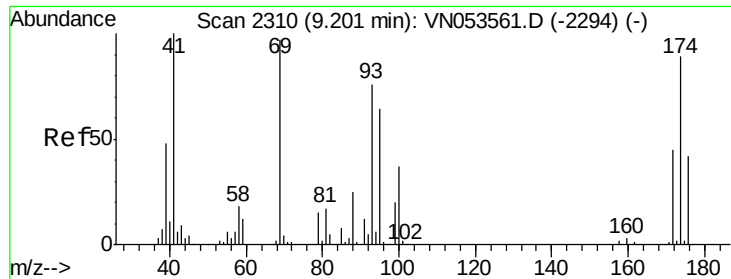
Tot Ion: 63 Resp: 1911
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.572 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN053756.D
 Acq: 13 Feb 2019 15:42

Tgt Ion: 41 Resp: 8687
 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: 39.878 ug/l

RT: 9.28 min Scan# 2335

Delta R.T. 0.08 min

Lab File: VN053756.D

Acq: 13 Feb 2019 15:42

Instrument :

MSVOA_N

ClientSampleId :

JC-02-021119-G

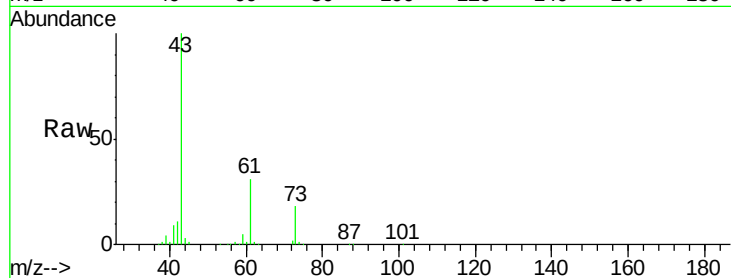
Tot Ion: 88 Resp: 65

Ion Ratio Lower Upper

88 100

43 2256287.7 27.8 41.6#

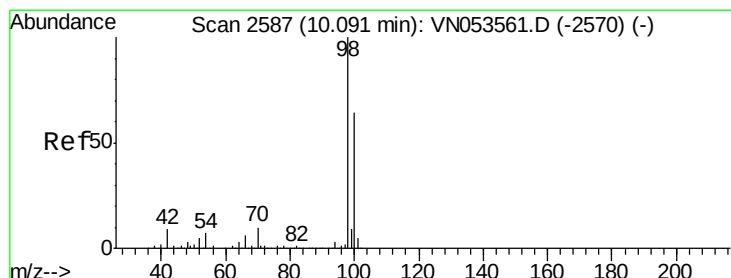
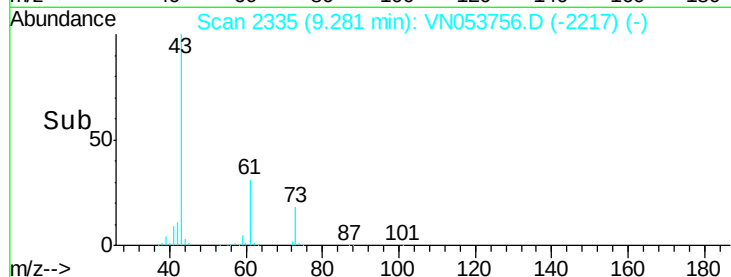
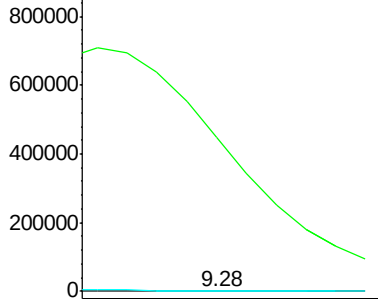
58 11026.2 56.5 84.7#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 50.958 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053756.D

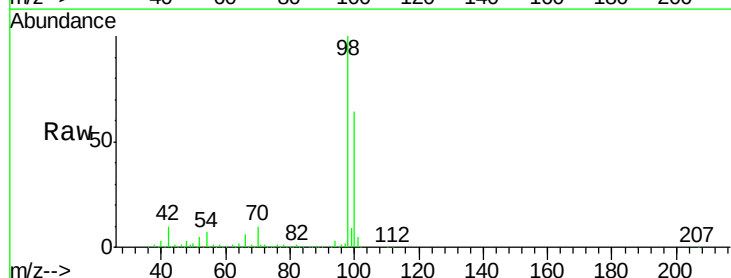
Acq: 13 Feb 2019 15:42

Tgt Ion: 98 Resp: 1439114

Ion Ratio Lower Upper

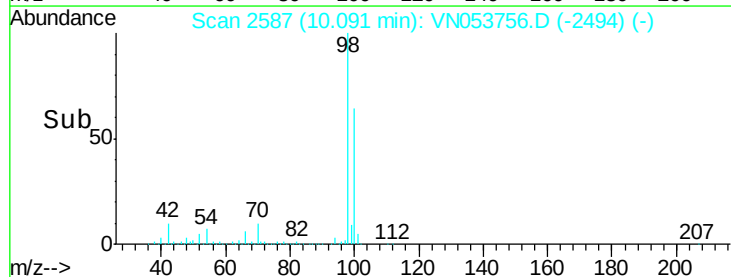
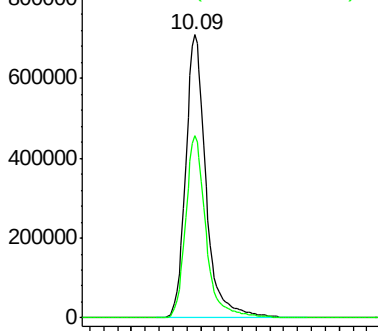
98 100

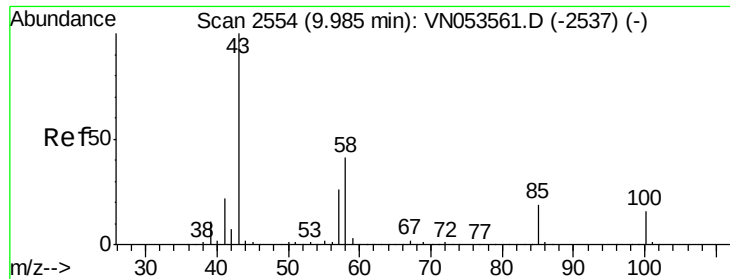
100 64.4 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

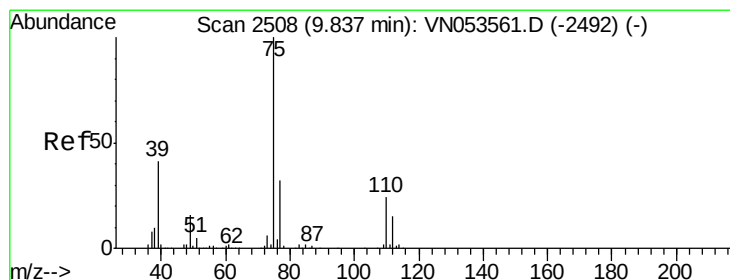
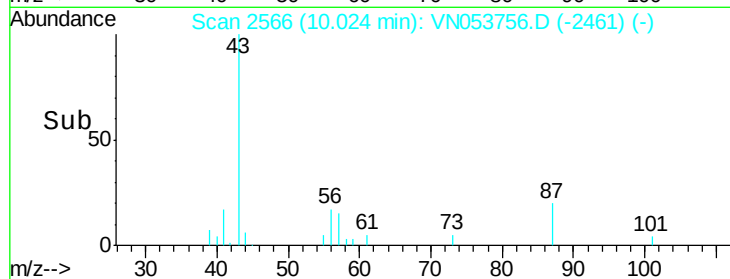
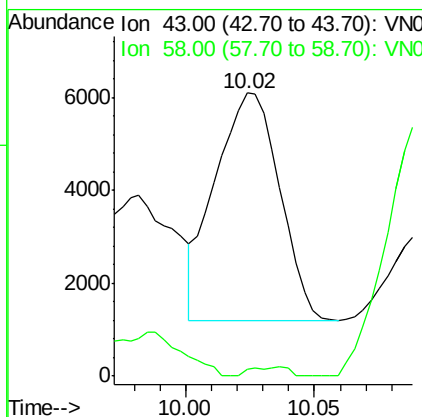
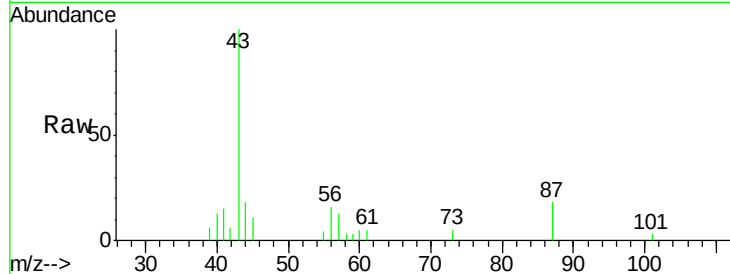




#51
 4-Methyl-2-Pentanone
 Concen: 1.496 ug/l
 RT: 10.02 min Scan# 2566
 Delta R.T. 0.04 min
 Lab File: VN053756.D
 Acq: 13 Feb 2019 15:42

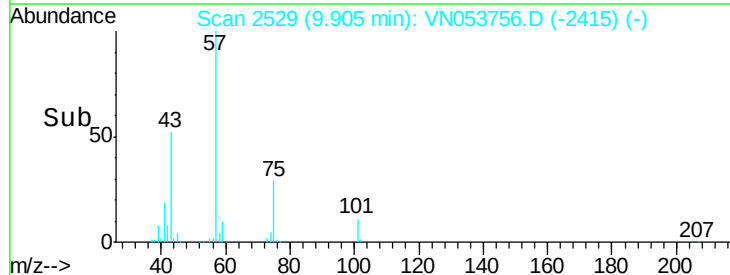
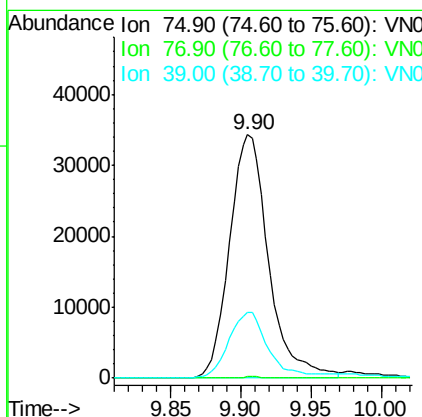
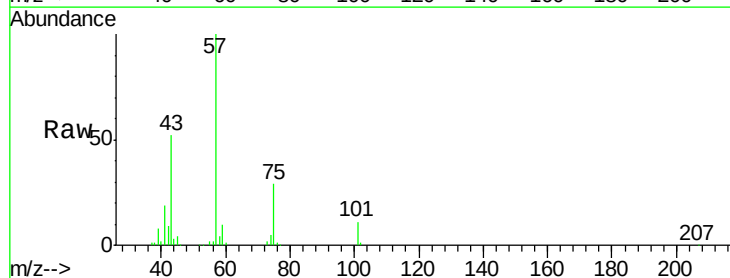
Instrument :
 MSVOA_N
 ClientSampleID :
 JC-02-021119-G

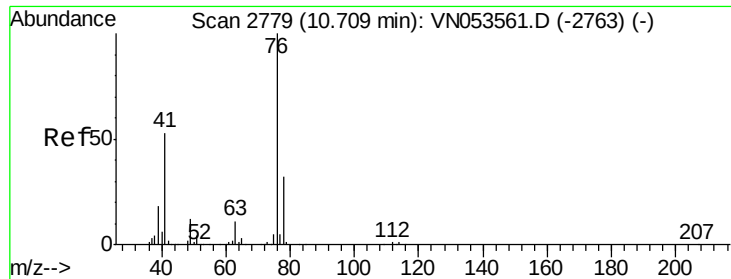
Tot Ion: 43 Resp: 8509
 Ion Ratio Lower Upper
 43 100
 58 0.0 32.8 49.2#



#54
 cis-1,3-Dichloropropene
 Concen: 5.279 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN053756.D
 Acq: 13 Feb 2019 15:42

Tgt Ion: 75 Resp: 66443
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.8 38.6#
 39 27.2 33.4 50.0#

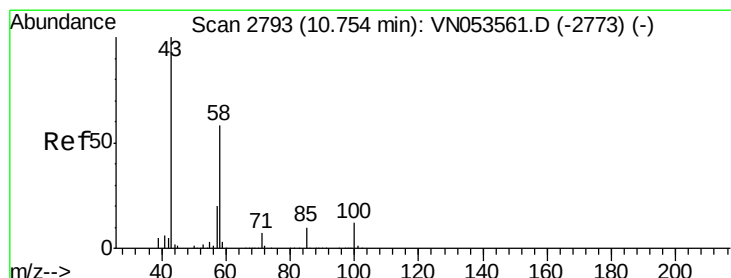
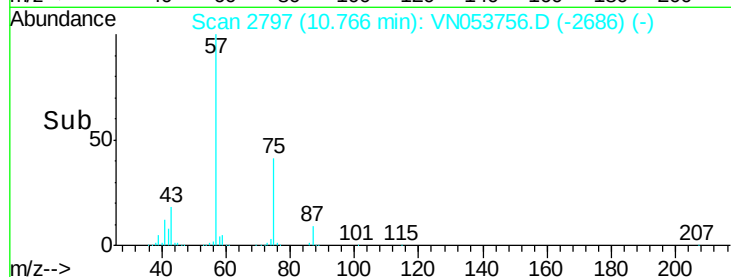
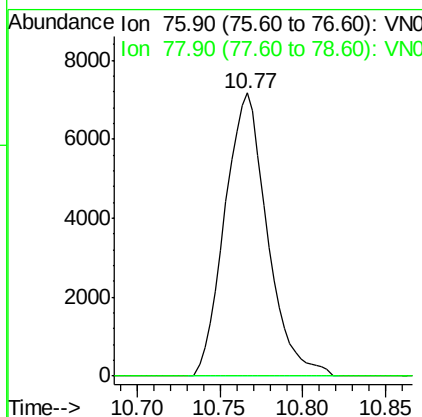
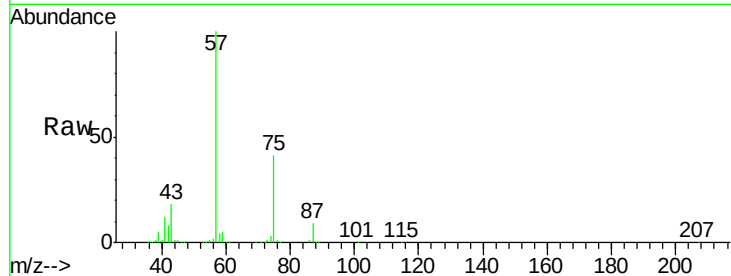




#57
 1,3-Dichloropropane
 Concen: 1.058 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN053756.D
 Acq: 13 Feb 2019 15:42

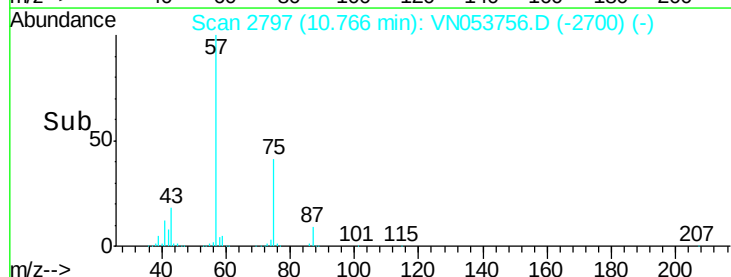
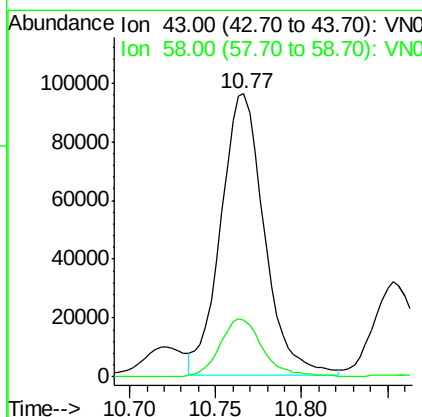
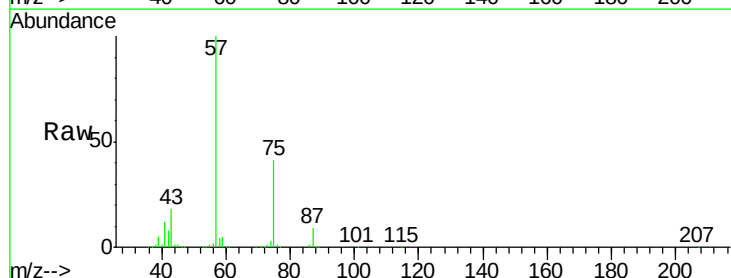
Instrument :
 MSVOA_N
 ClientSampleId :
 JC-02-021119-G

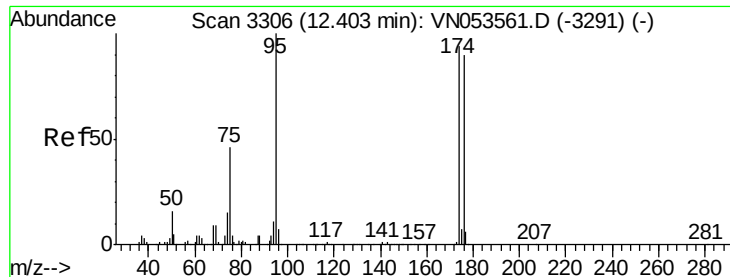
Tot Ion: 76 Resp: 12796
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 44.011 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN053756.D
 Acq: 13 Feb 2019 15:42

Tgt Ion: 43 Resp: 169922
 Ion Ratio Lower Upper
 43 100
 58 20.6 28.6 85.8#





#62

4-Bromofluorobenzene

Concen: 53.288 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053756.D

Acq: 13 Feb 2019 15:42

Instrument :

MSVOA_N

ClientSampleId :

JC-02-021119-G

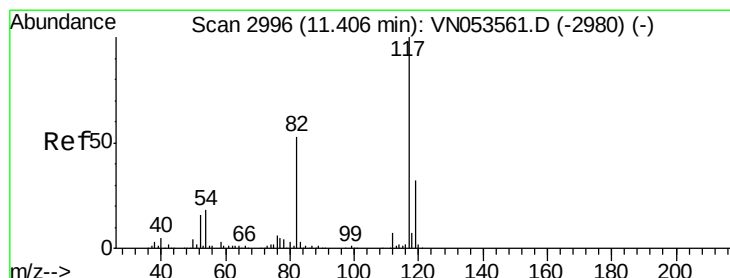
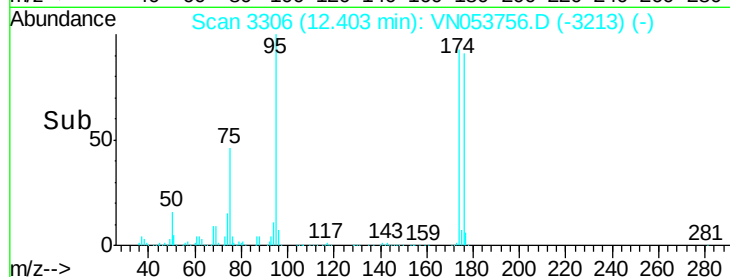
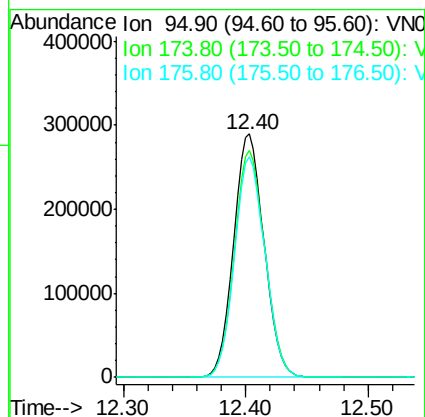
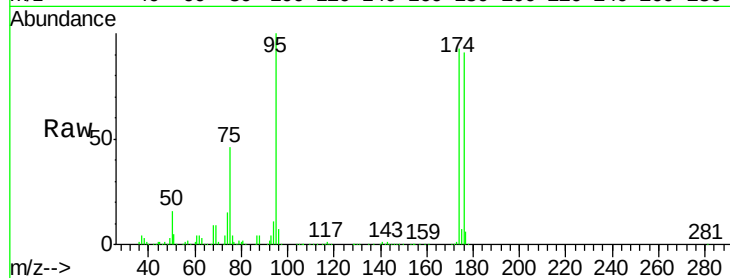
Tot Ion: 95 Resp: 501916

Ion Ratio Lower Upper

95 100

174 93.7 0.0 183.2

176 90.8 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: VN053756.D

Acq: 13 Feb 2019 15:42

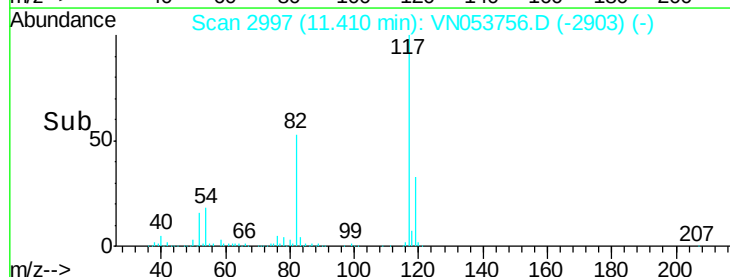
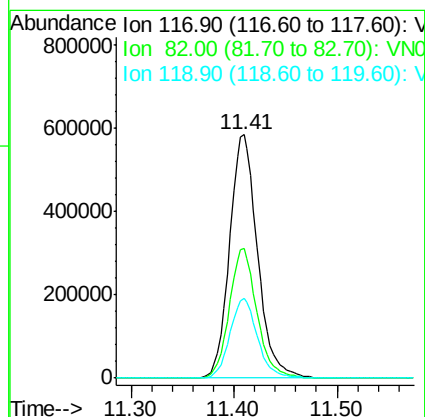
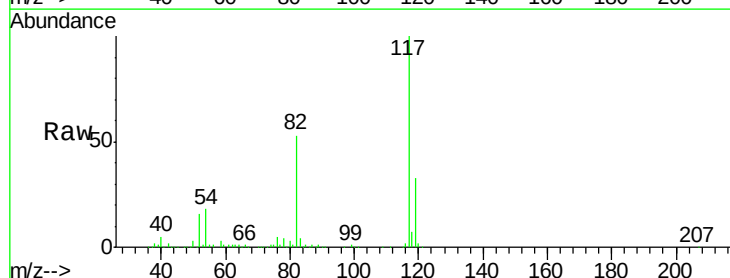
Tgt Ion: 117 Resp: 1103439

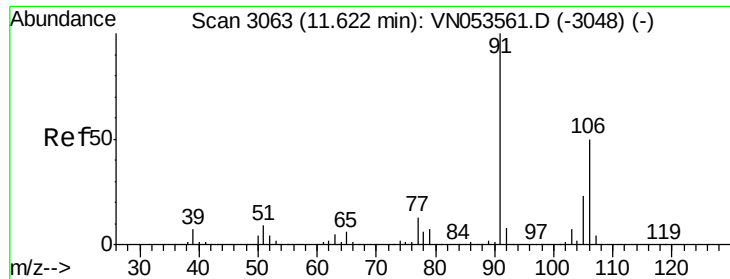
Ion Ratio Lower Upper

117 100

82 53.1 42.9 64.3

119 32.6 26.0 39.0

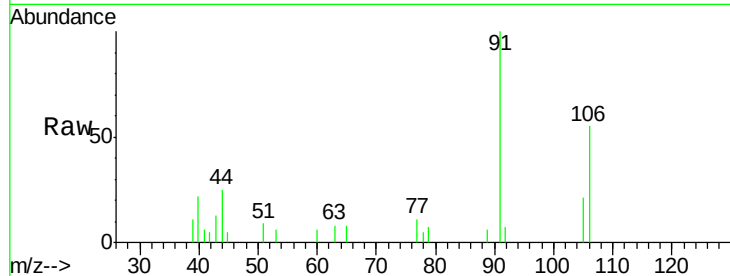




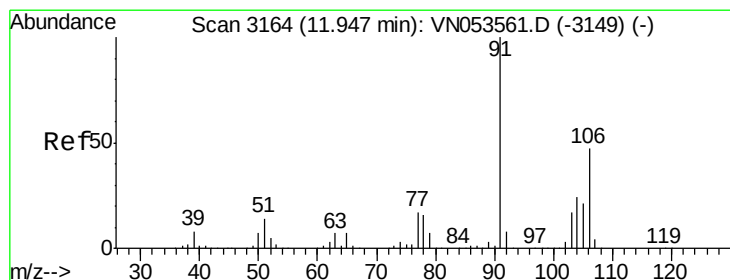
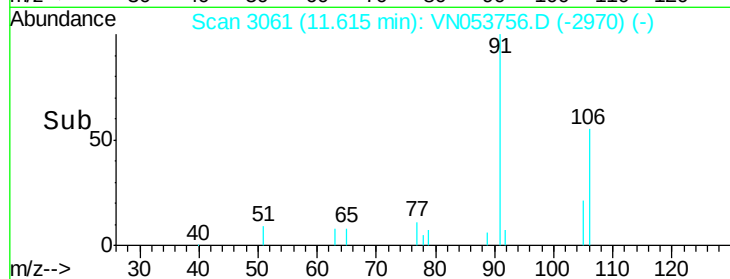
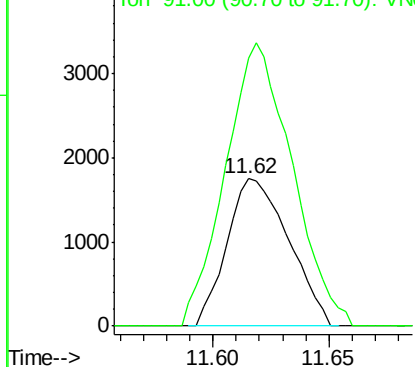
#68
m/p-Xylenes
Concen: 0.220 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.01 min
Lab File: VN053756.D
Acq: 13 Feb 2019 15:42

Instrument :
MSVOA_N
ClientSampleId :
JC-02-021119-G

Tot Ion:106 Resp: 3232
Ion Ratio Lower Upper
106 100
91 208.2 161.4 242.2

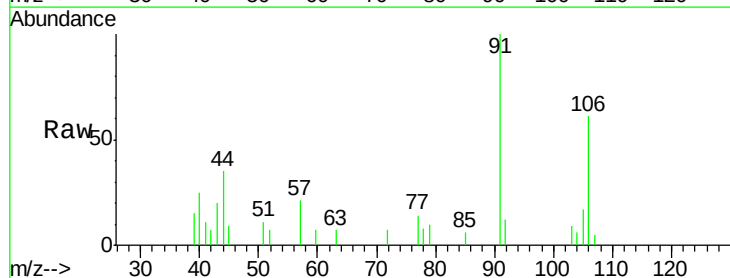


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN0

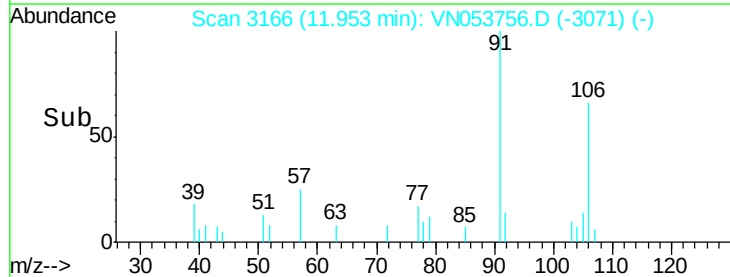
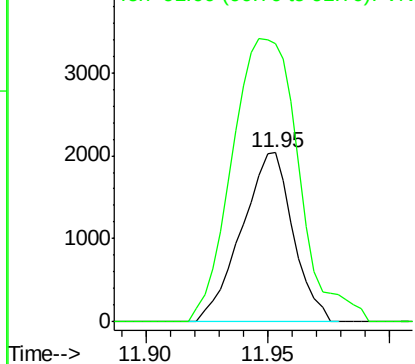


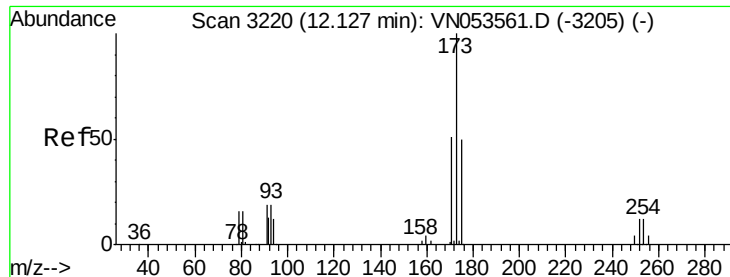
#69
o-Xylene
Concen: 0.209 ug/l
RT: 11.95 min Scan# 3166
Delta R.T. 0.01 min
Lab File: VN053756.D
Acq: 13 Feb 2019 15:42

Tgt Ion:106 Resp: 2973
Ion Ratio Lower Upper
106 100
91 217.4 106.9 320.8



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN0





#71

Bromoform

Concen: 0.624 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053756.D

Acq: 13 Feb 2019 15:42

Instrument :

MSVOA_N

ClientSampleId :

JC-02-021119-G

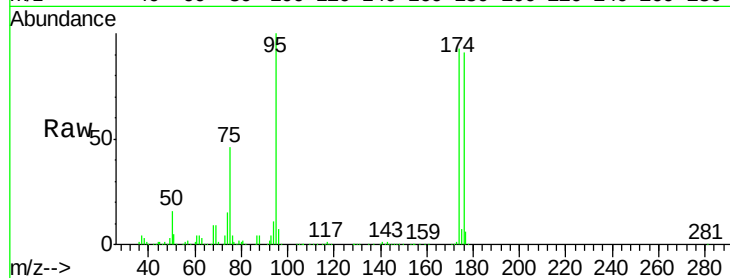
Tot Ion:173 Resp: 3503

Ion Ratio Lower Upper

173 100

175 822.6 24.6 74.0#

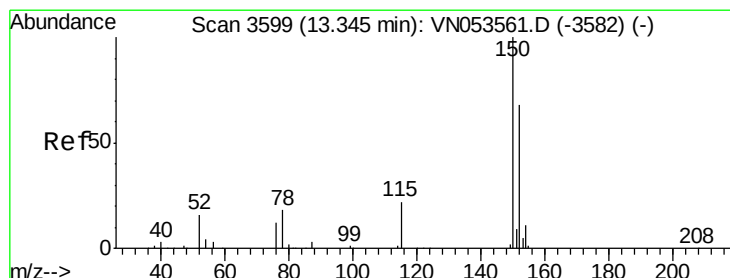
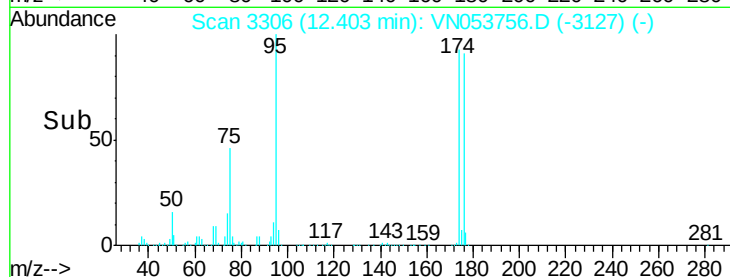
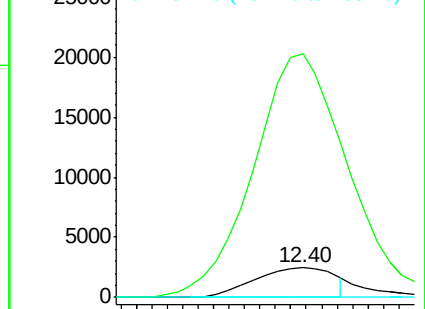
254 0.0 0.2 0.2#



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: VN053756.D

Acq: 13 Feb 2019 15:42

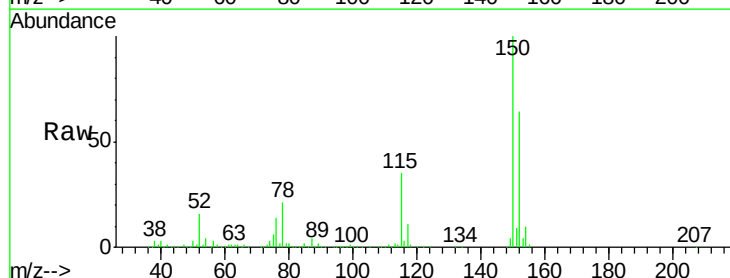
Tgt Ion:152 Resp: 453946

Ion Ratio Lower Upper

152 100

115 55.1 27.8 83.4

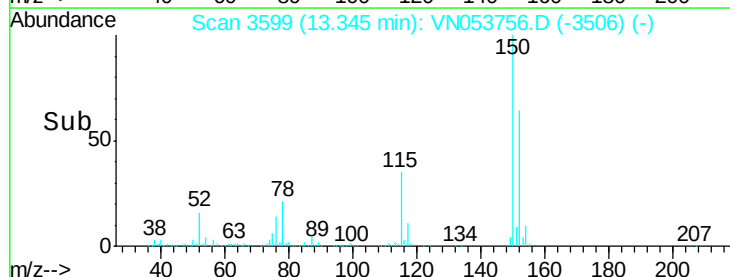
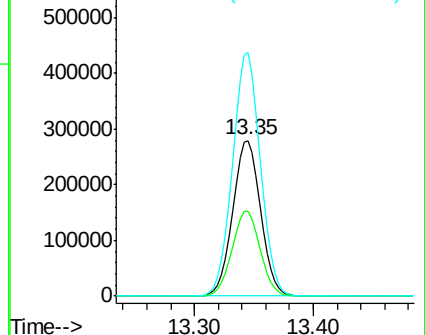
150 156.2 0.0 349.0

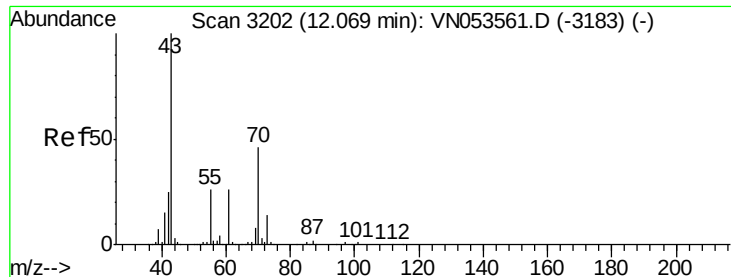


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.352 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053756.D

Acq: 13 Feb 2019 15:42

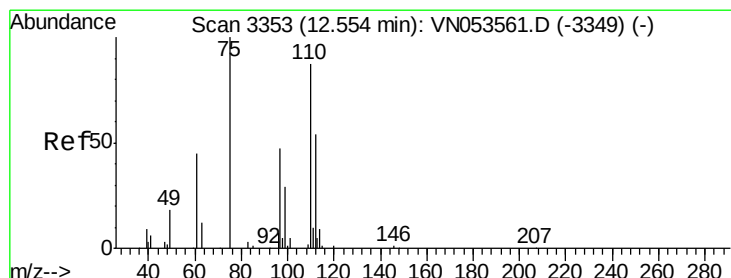
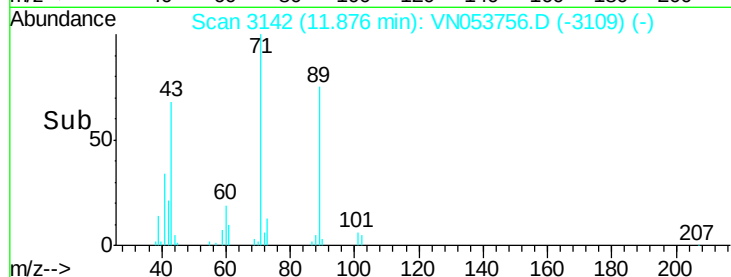
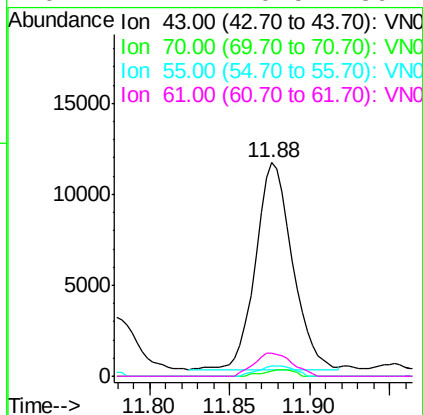
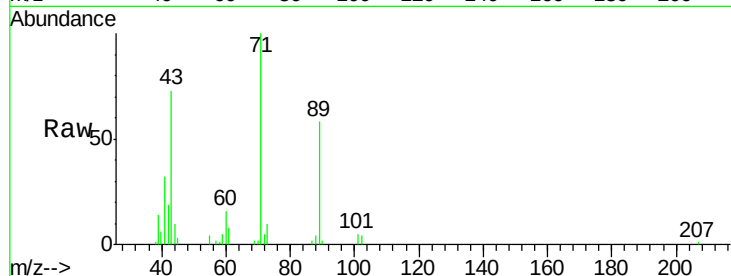
Instrument :

MSVOA_N

ClientSampleId :

JC-02-021119-G

Tot Ion:	43	Resp:	18051
Ion	Ratio	Lower	Upper
43	100		
70	2.7	35.4	53.2#
55	5.0	20.9	31.3#
61	11.7	20.5	30.7#



#76

1,2,3-Trichloropropane

Concen: 39.497 ug/l

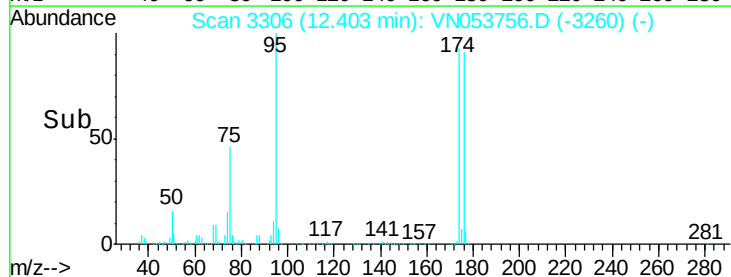
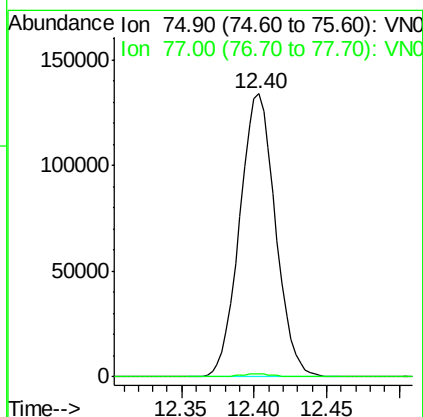
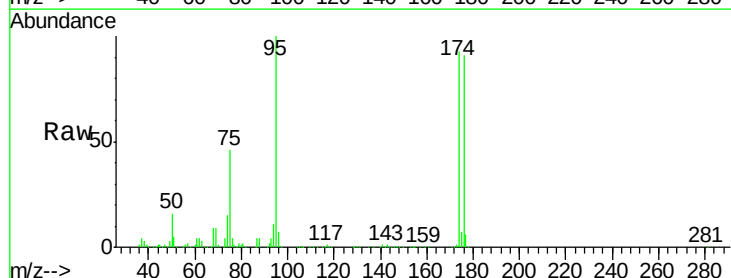
RT: 12.40 min Scan# 3306

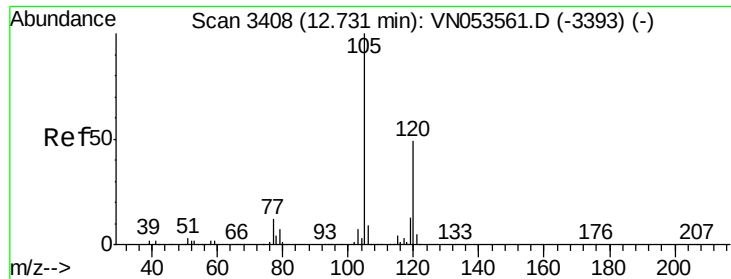
Delta R.T. -0.15 min

Lab File: VN053756.D

Acq: 13 Feb 2019 15:42

Tgt Ion:	75	Resp:	230291
Ion	Ratio	Lower	Upper
75	100		
77	1.1	0.0	0.0#

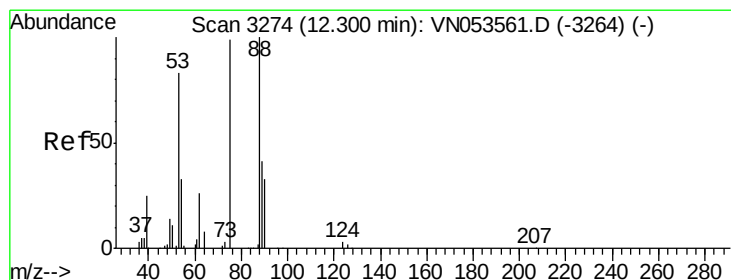
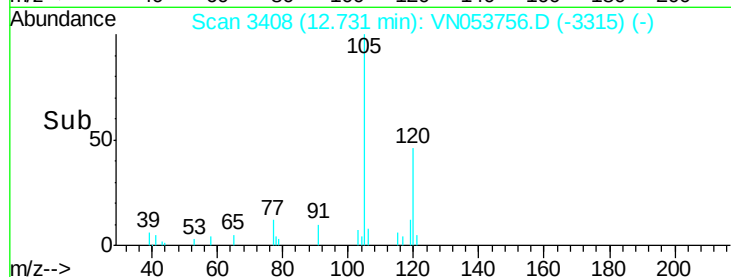
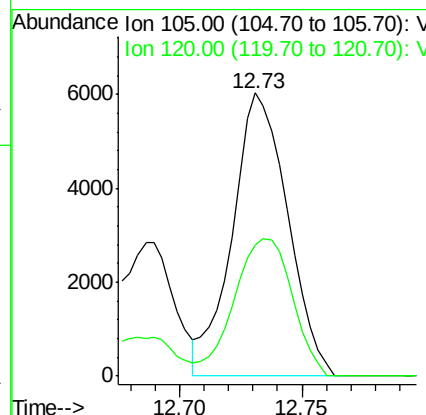
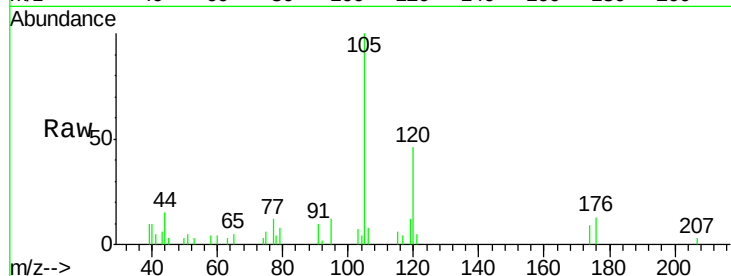




#80
 1,3,5-Trimethylbenzene
 Concen: 0.359 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.00 min
 Lab File: VN053756.D
 Acq: 13 Feb 2019 15:42

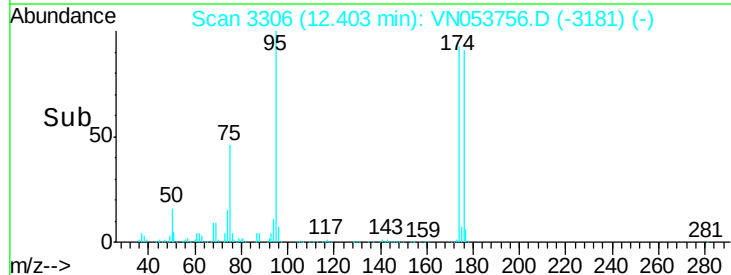
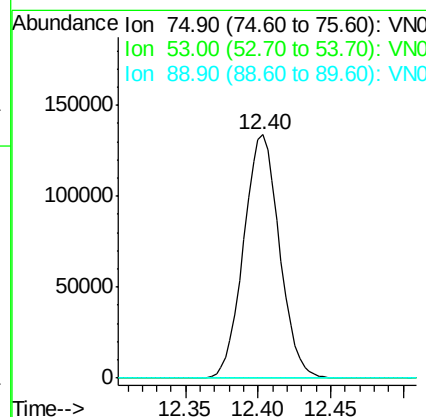
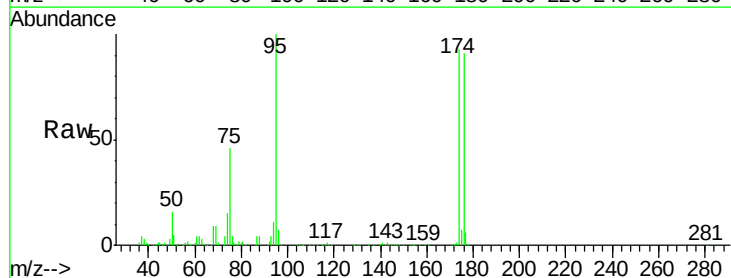
Instrument :
 MSVOA_N
 ClientSampleId :
 JC-02-021119-G

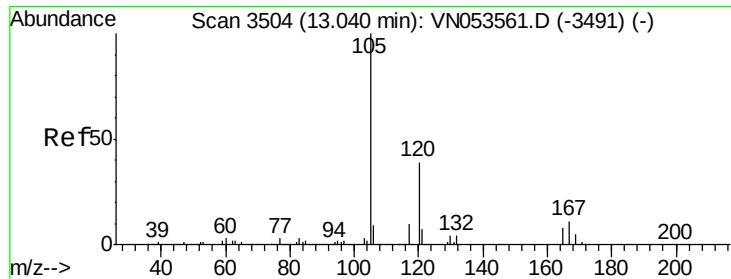
Tot Ion:105 Resp: 9502
 Ion Ratio Lower Upper
 105 100
 120 51.0 24.9 74.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 111.061 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN053756.D
 Acq: 13 Feb 2019 15:42

Tgt Ion: 75 Resp: 230291
 Ion Ratio Lower Upper
 75 100
 53 0.0 69.8 104.6#
 89 0.0 35.6 53.4#

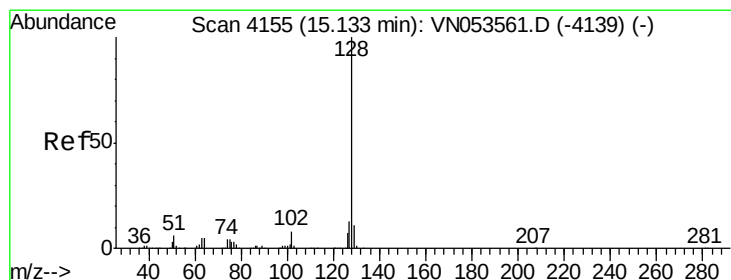
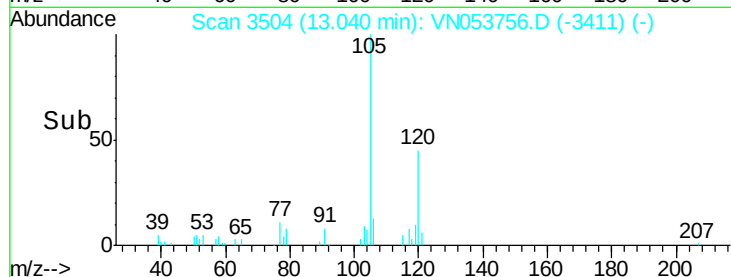
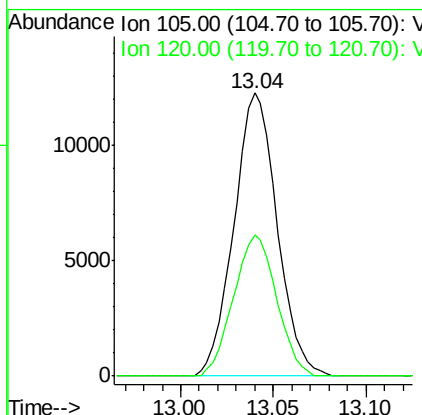
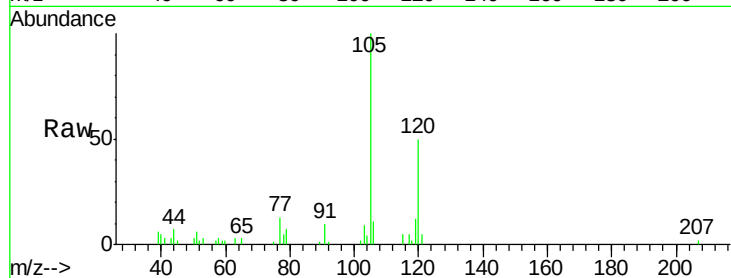




#84
 1,2,4-Trimethylbenzene
 Concen: 0.735 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN053756.D
 Acq: 13 Feb 2019 15:42

Instrument :
 MSVOA_N
 ClientSampleId :
 JC-02-021119-G

Tot Ion:105 Resp: 19817
 Ion Ratio Lower Upper
 105 100
 120 49.4 23.0 69.0



#95
 Naphthalene
 Concen: 2.606 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN053756.D
 Acq: 13 Feb 2019 15:42

Tgt Ion:128 Resp: 17960
 Ion Ratio Lower Upper
 128 100
 127 13.4 10.3 15.5
 129 11.3 8.6 13.0

