

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060819\
 Data File : VN056108.D
 Acq On : 7 Jun 2019 19:20
 Operator : JC/SP
 Sample : K3251-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE-BLANK-SAMPLE-MANA

Quant Time: Jun 08 05:13:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	316051	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	481240	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	458897	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	145474	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	157566	50.21	ug/l	0.00
Spiked Amount			Recovery	=	100.42%	
35) Dibromofluoromethane	7.59	113	139770	47.34	ug/l	0.00
Spiked Amount			Recovery	=	94.68%	
50) Toluene-d8	10.09	98	573111	50.44	ug/l	0.00
Spiked Amount			Recovery	=	100.88%	
62) 4-Bromofluorobenzene	12.40	95	183215	47.42	ug/l	0.00
Spiked Amount			Recovery	=	94.84%	

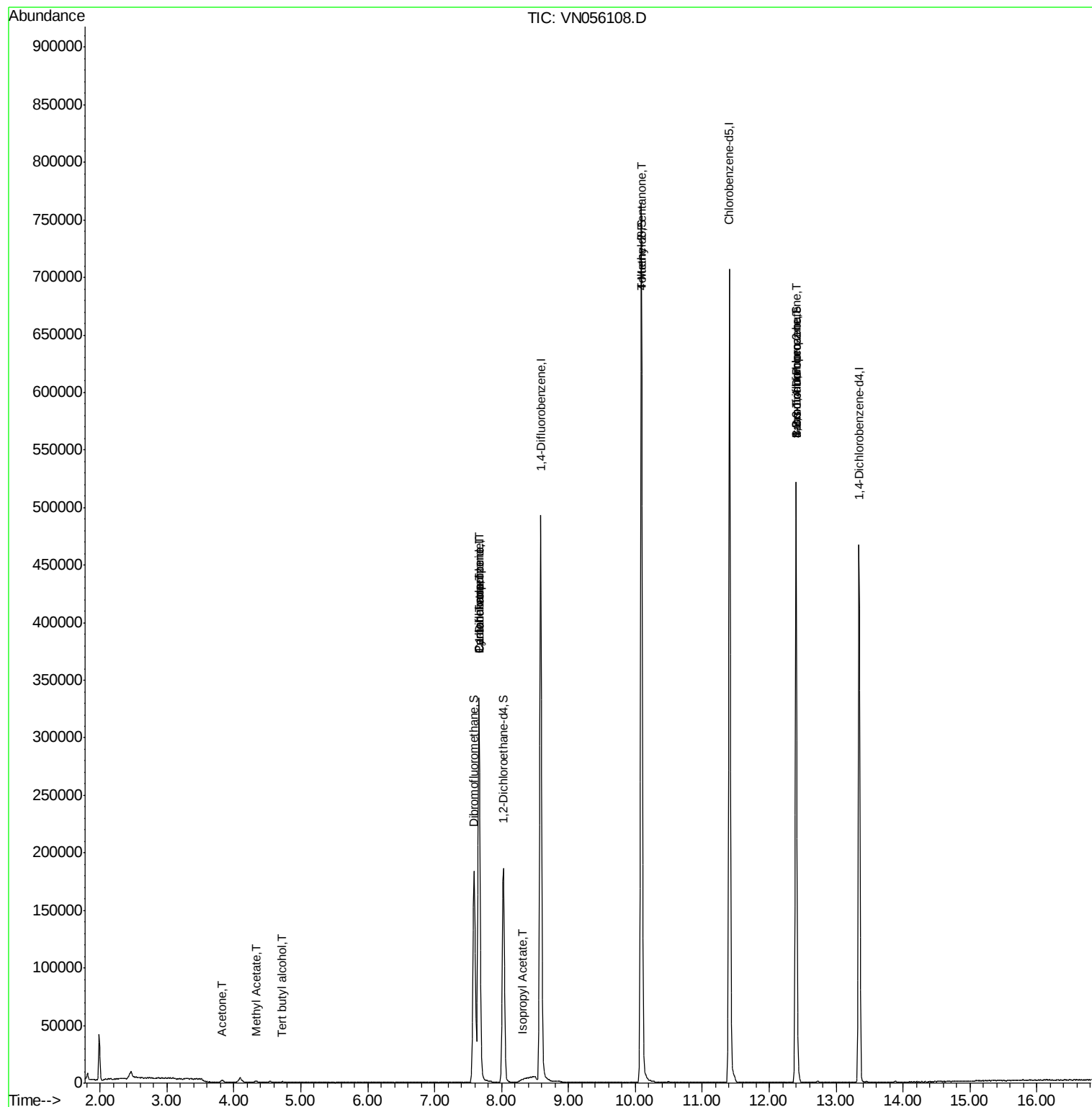
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	157	0.287	ug/l #	74
16) Acetone	3.82	43	2908	1.938	ug/l #	78
18) Methyl Acetate	4.33	43	2454	0.257	ug/l #	70
31) Cyclohexane	7.66	56	4549	0.914	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	18731	4.527	ug/l #	48
38) Carbon Tetrachloride	7.66	117	25861	6.779	ug/l #	15
43) Isopropyl Acetate	8.31	43	3276	0.549	ug/l #	53
51) 4-Methyl-2-Pentanone	10.09	43	2388	0.640	ug/l #	1
71) Bromoform	12.40	173	1315	3.212	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	83033	31.020	ug/l #	100
79) 2-Chlorotoluene	12.40	91	452	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	83033	103.301	ug/l #	15

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056108.D

Acq: 7 Jun 2019 19:20

Instrument :

MSVOA_N

ClientSampleId :

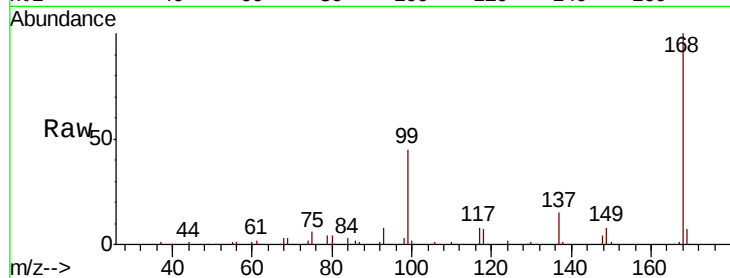
STORAGE-BLANK-SAMPLE-MANA

Tot Ion:168 Resp: 316051

Ion Ratio Lower Upper

168 100

99 45.2 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

150000

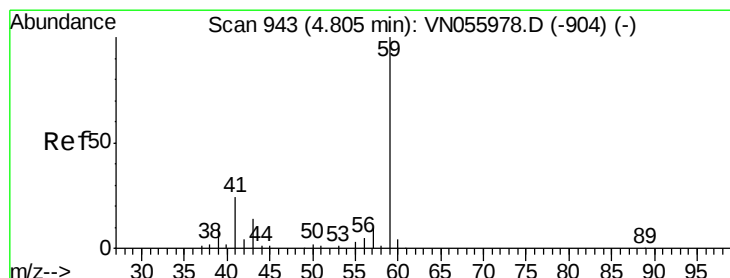
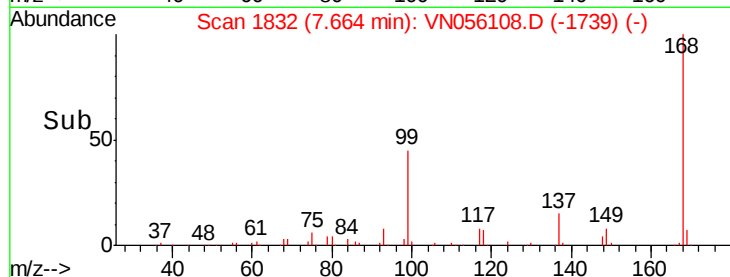
100000

50000

0

Time-->

7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 0.287 ug/l

RT: 4.72 min Scan# 917

Delta R.T. -0.08 min

Lab File: VN056108.D

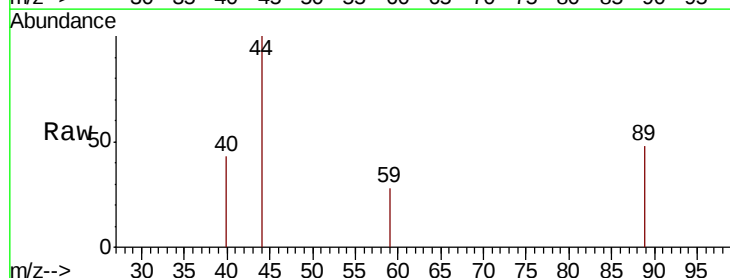
Acq: 7 Jun 2019 19:20

Tgt Ion: 59 Resp: 157

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.72

150

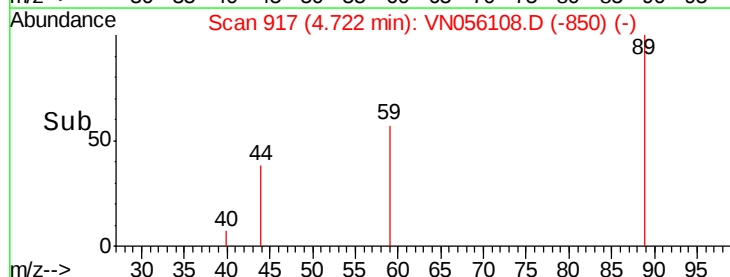
100

50

0

Time-->

4.70 4.71 4.72 4.73 4.74





#16

Acetone

Concen: 1.938 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN056108.D

Acq: 7 Jun 2019 19:20

Instrument :

MSVOA_N

ClientSampleId :

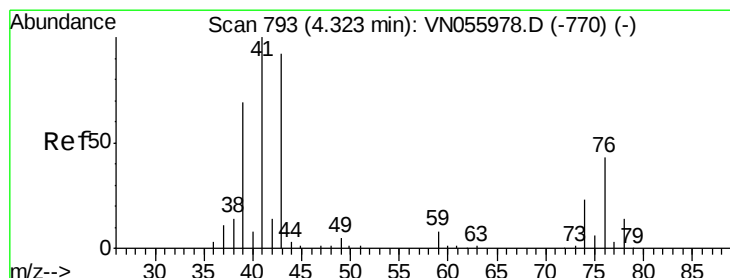
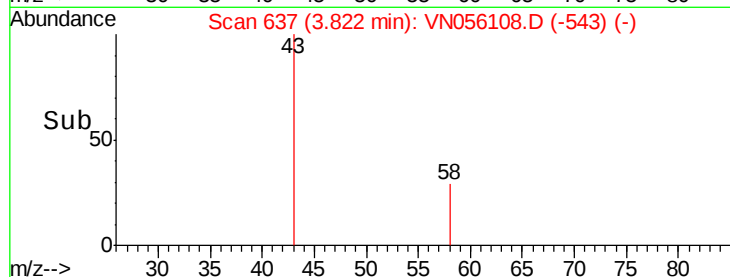
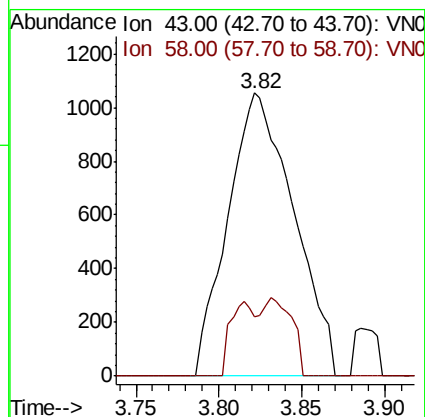
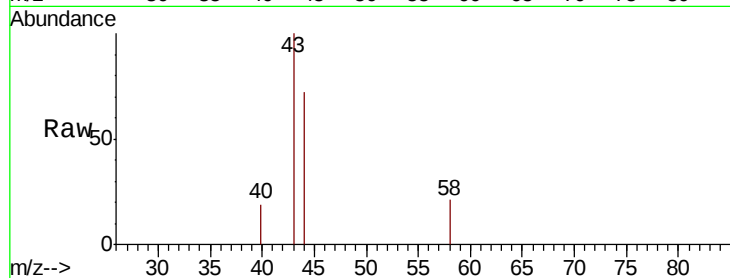
STORAGE-BLANK-SAMPLE-MANA

Tot Ion: 43 Resp: 2908

Ion Ratio Lower Upper

43 100

58 21.0 26.6 39.8#



#18

Methyl Acetate

Concen: 0.257 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN056108.D

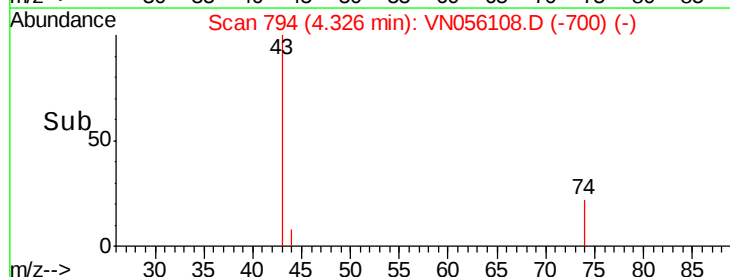
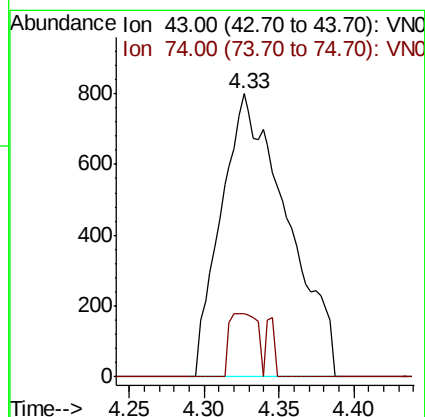
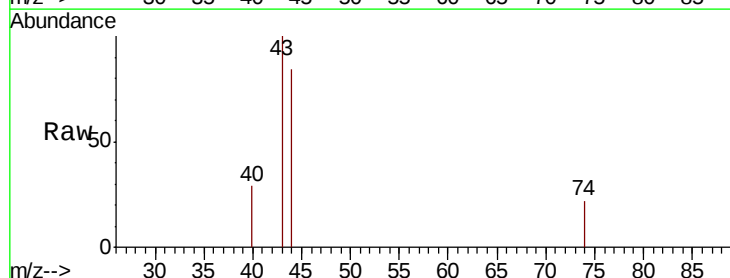
Acq: 7 Jun 2019 19:20

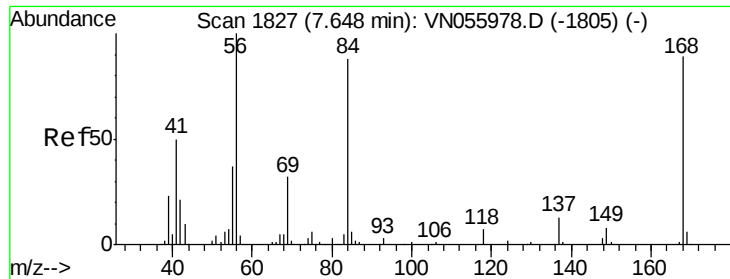
Tgt Ion: 43 Resp: 2454

Ion Ratio Lower Upper

43 100

74 9.4 19.3 28.9#

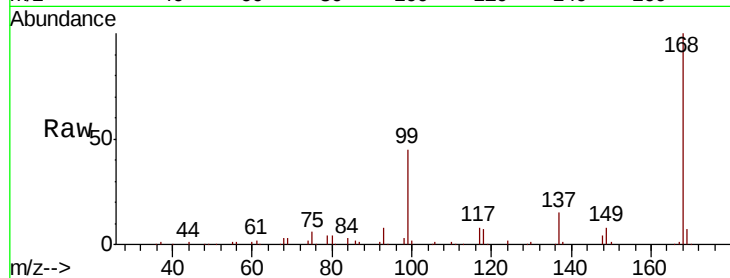




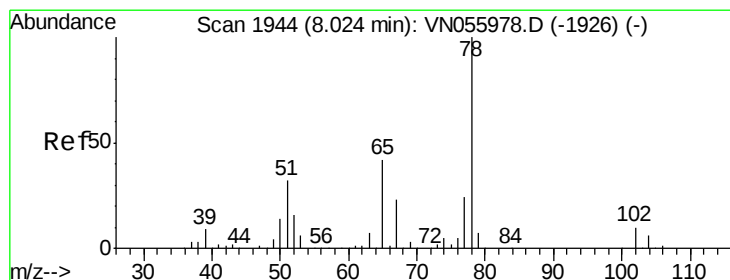
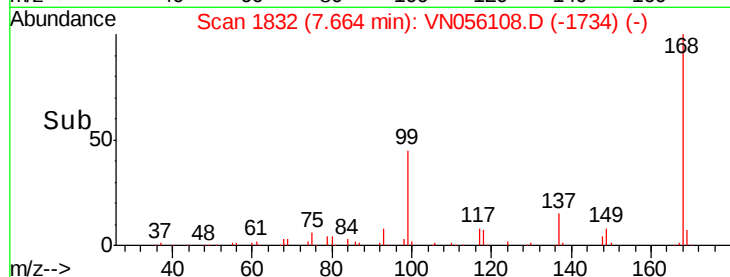
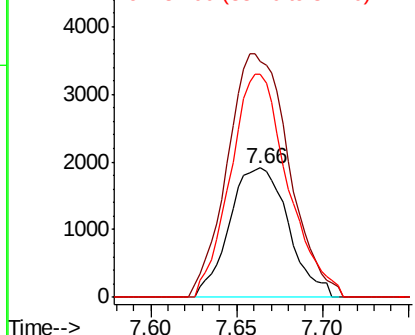
#31
Cyclohexane
Concen: 0.914 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN056108.D
Acq: 7 Jun 2019 19:20

Instrument :
MSVOA_N
ClientSampleId :
STORAGE-BLANK-SAMPLE-MANA

Tot Ion: 56 Resp: 4549
Ion Ratio Lower Upper
56 100
69 182.3 25.6 38.4#
84 172.0 67.4 101.0#

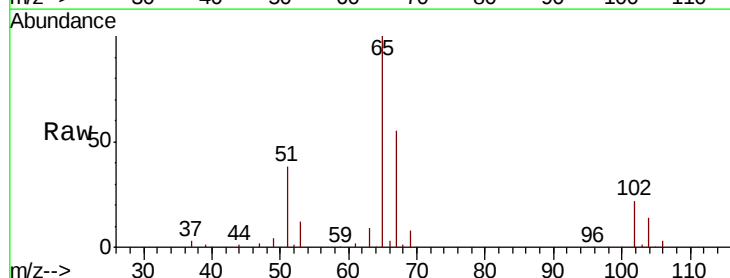


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

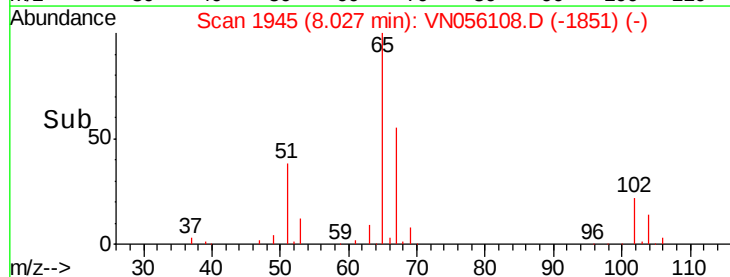
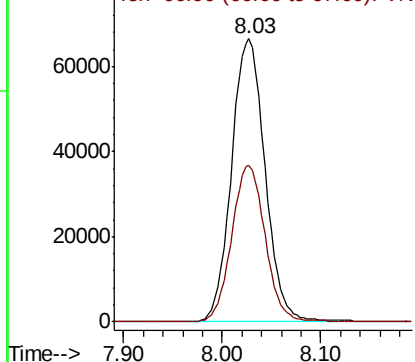


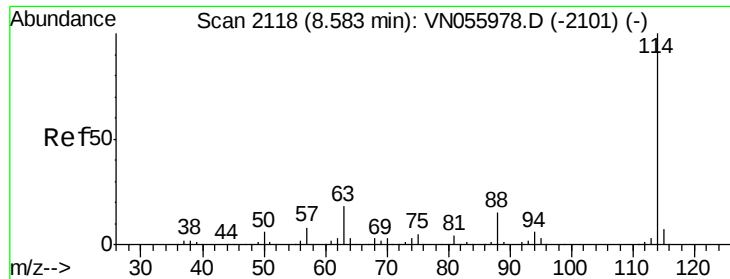
#33
1,2-Dichloroethane-d4
Concen: 50.210 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN056108.D
Acq: 7 Jun 2019 19:20

Tgt Ion: 65 Resp: 157566
Ion Ratio Lower Upper
65 100
67 55.2 0.0 109.2



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: 8.58 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN056108.D

Acq: 7 Jun 2019 19:20

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-SAMPLE-MANA

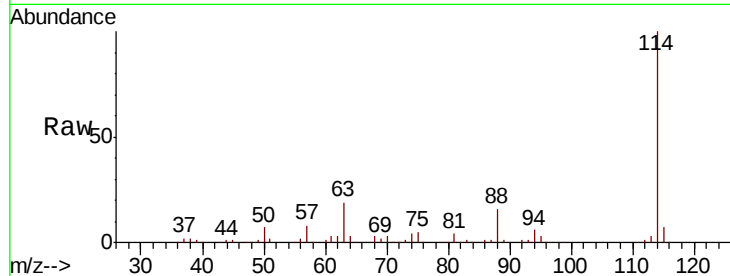
Tot Ion:114 Resp: 481240

Ion Ratio Lower Upper

114 100

63 19.1 0.0 39.2

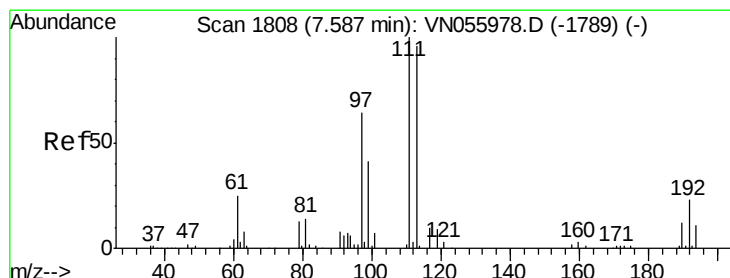
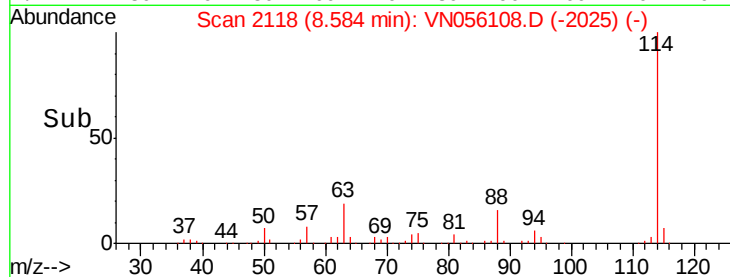
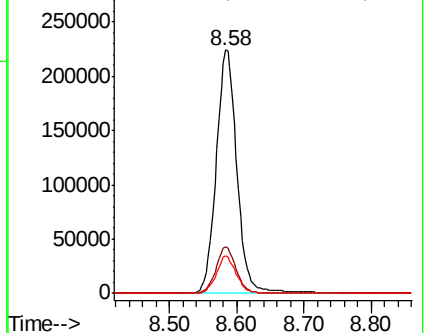
88 15.6 0.0 31.0



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: 47.338 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN056108.D

Acq: 7 Jun 2019 19:20

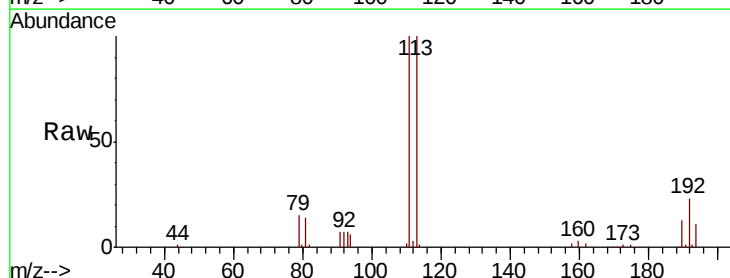
Tgt Ion:113 Resp: 139770

Ion Ratio Lower Upper

113 100

111 101.9 81.9 122.9

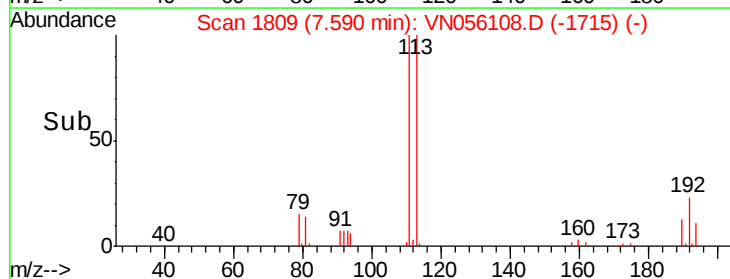
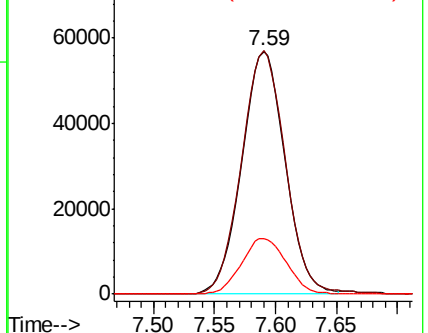
192 23.8 19.5 29.3

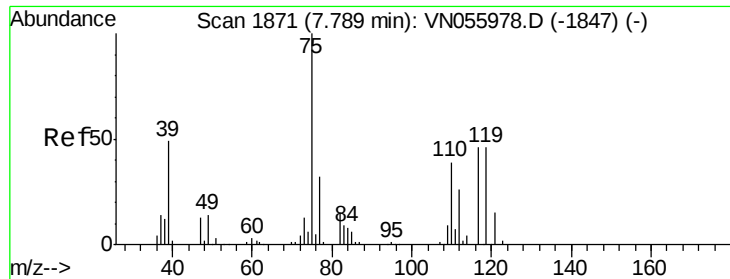


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

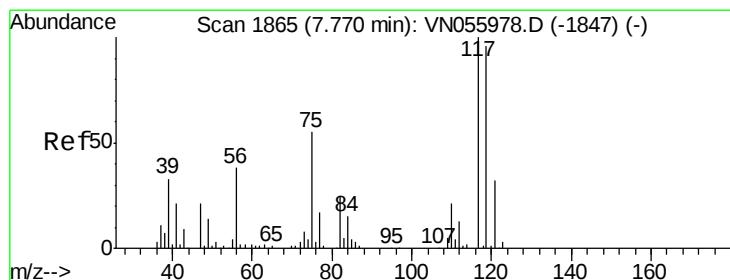
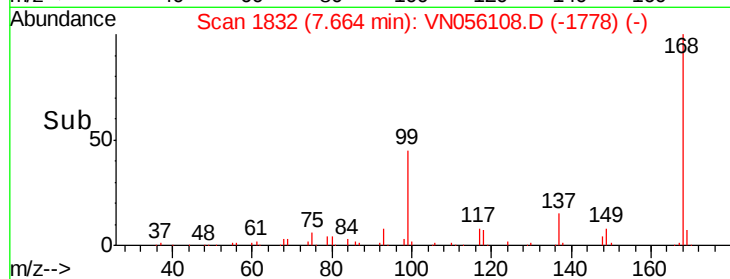
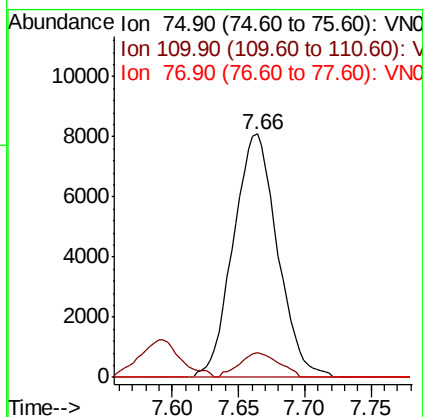
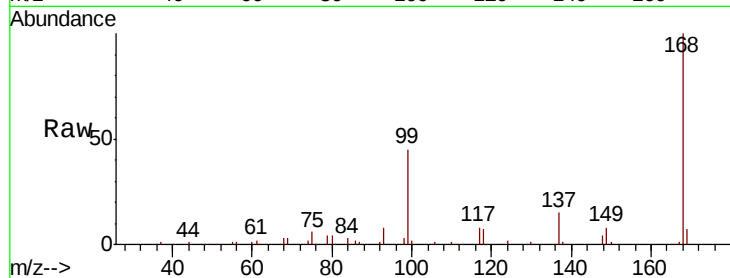




#36
 1,1-Dichloropropene
 Concen: 4.527 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056108.D
 Acq: 7 Jun 2019 19:20

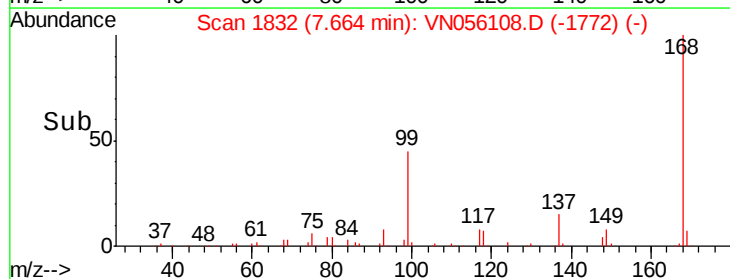
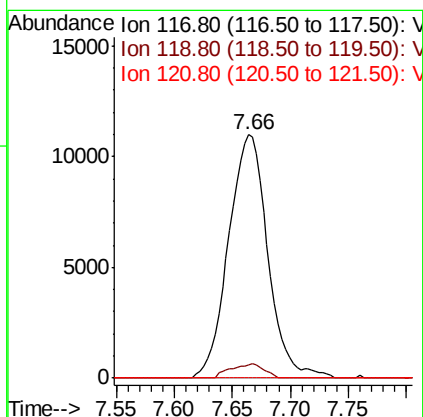
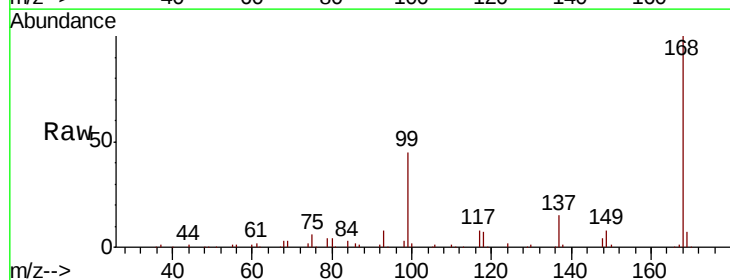
Instrument :
 MSVOA_N
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 STORAGE-BLANK-SAMPLE-MANA

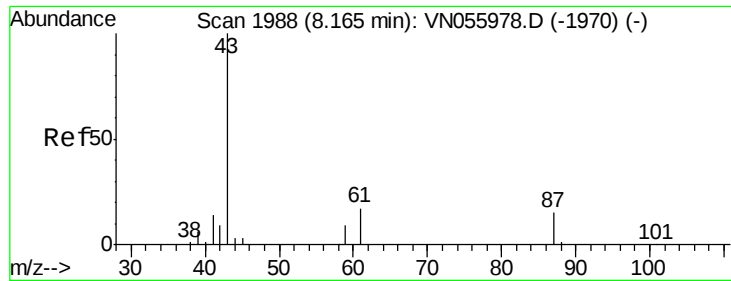
Tot Ion	75	110	77	Resp	18731	Lower	Upper
Ratio	100	9.0	0.0				
		19.0	25.1				
		57.0#	37.7#				



#38
 Carbon Tetrachloride
 Concen: 6.779 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN056108.D
 Acq: 7 Jun 2019 19:20

Tgt Ion	117	119	121	Resp	25861	Lower	Upper
Ratio	100	5.4	0.0				
		79.0	24.7				
		118.6#	37.1#				





#43

Isopropyl Acetate

Concen: 0.549 ug/l

RT: 8.31 min Scan# 2032

Delta R.T. 0.14 min

Lab File: VN056108.D

Acq: 7 Jun 2019 19:20

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-SAMPLE-MANA

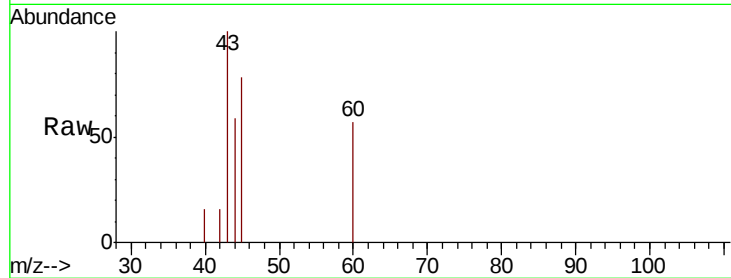
Tot Ion: 43 Resp: 3276

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

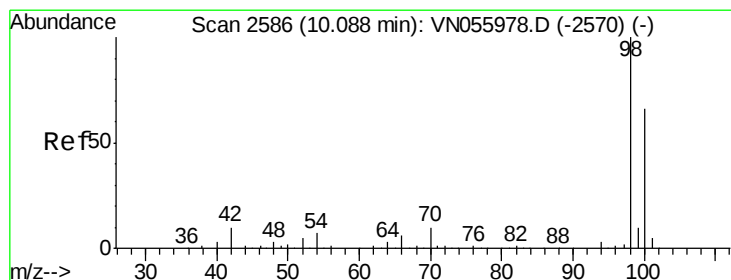
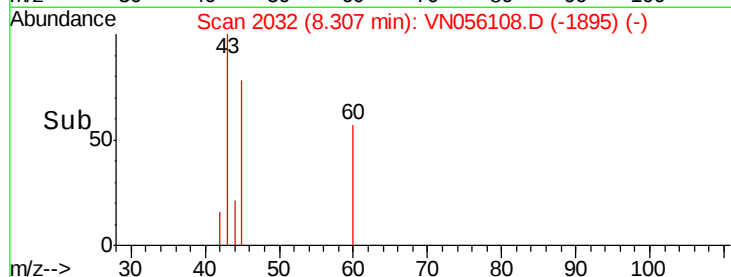
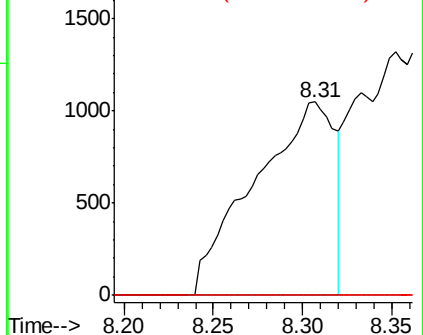
87 0.0 11.4 17.2#



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



#50

Toluene-d8

Concen: 50.443 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056108.D

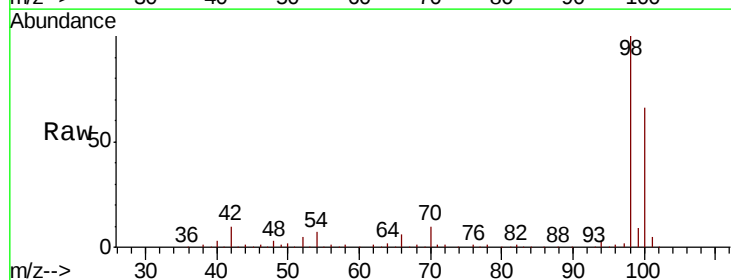
Acq: 7 Jun 2019 19:20

Tgt Ion: 98 Resp: 573111

Ion Ratio Lower Upper

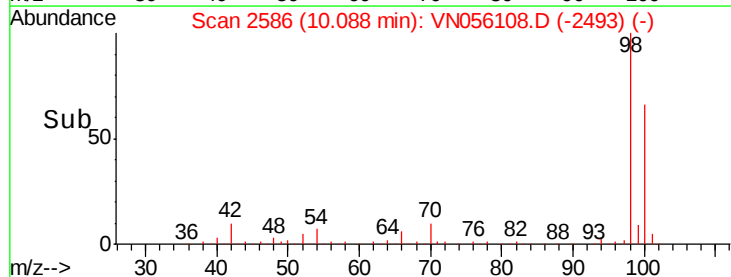
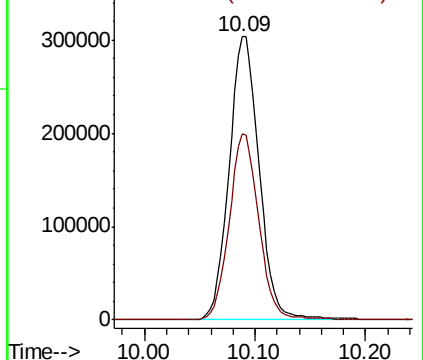
98 100

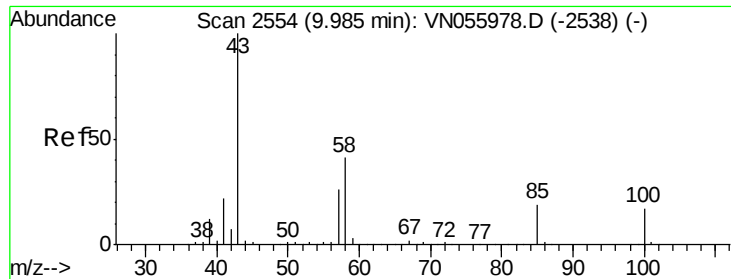
100 65.1 51.9 77.9



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: 0.640 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.10 min

Lab File: VN056108.D

Acq: 7 Jun 2019 19:20

Instrument :

MSVOA_N

ClientSampleId :

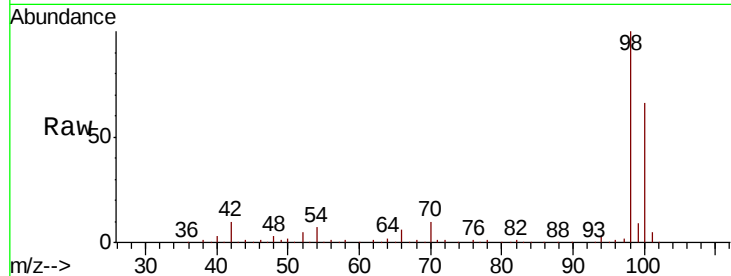
STORAGE-BLANK-SAMPLE-MANA

Tot Ion: 43 Resp: 2388

Ion Ratio Lower Upper

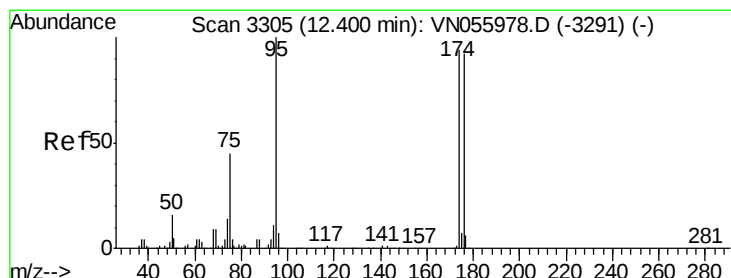
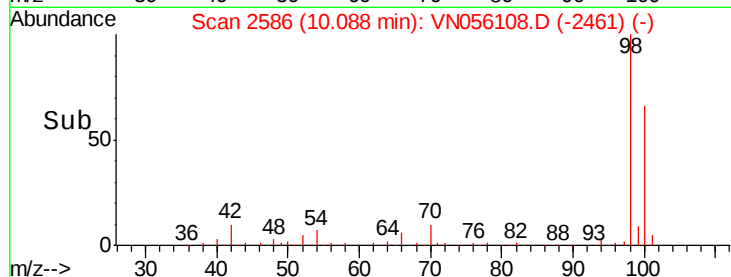
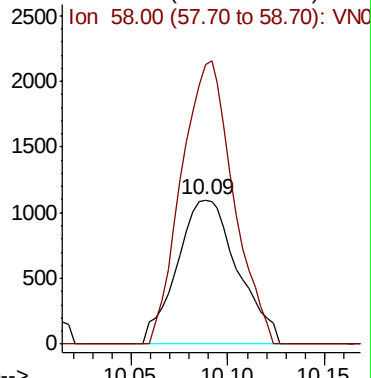
43 100

58 168.6 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN055978.D (-2538) (-)



#62

4-Bromofluorobenzene

Concen: 47.419 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056108.D

Acq: 7 Jun 2019 19:20

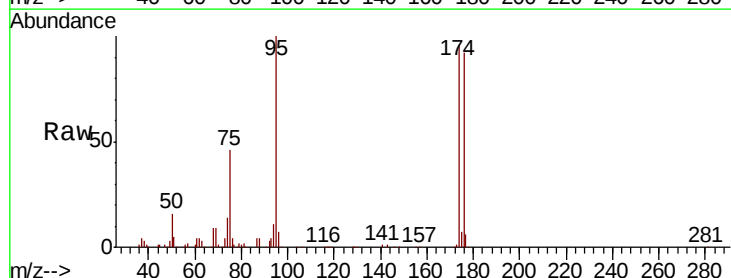
Tgt Ion: 95 Resp: 183215

Ion Ratio Lower Upper

95 100

174 97.2 0.0 191.0

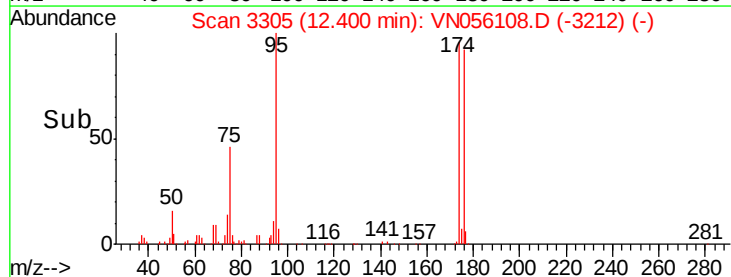
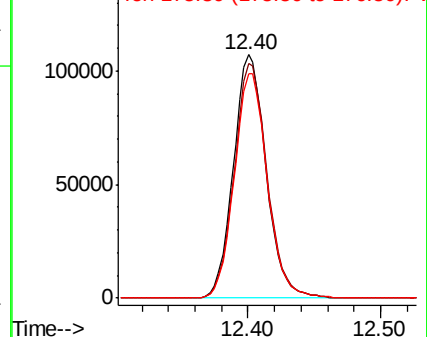
176 93.3 0.0 185.2

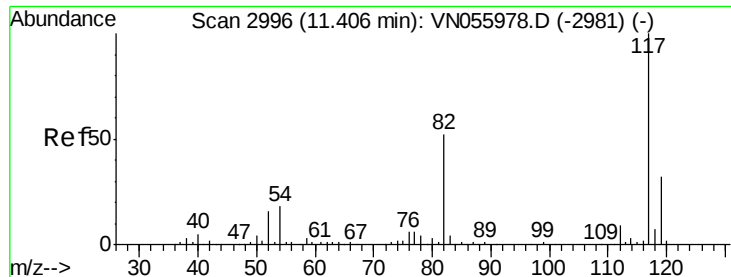


Abundance Ion 94.90 (94.60 to 95.60): VN055978.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055978.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055978.D (-3291) (-)

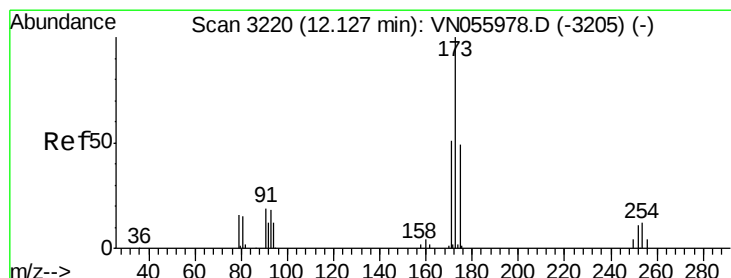
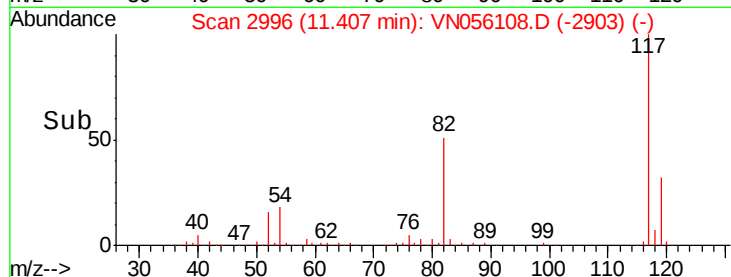
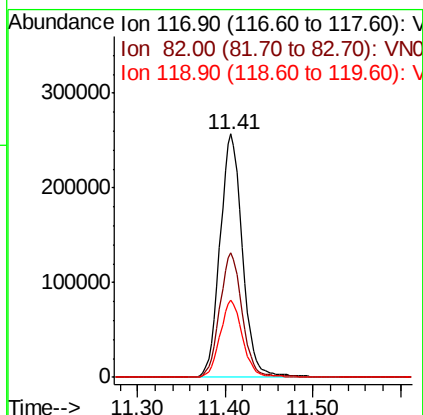
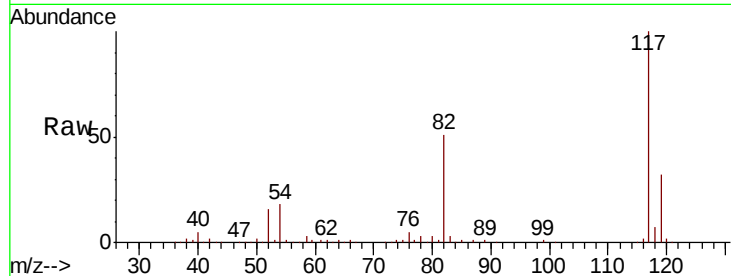




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056108.D
Acq: 7 Jun 2019 19:20

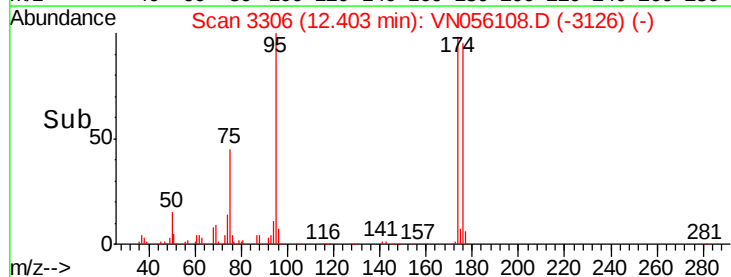
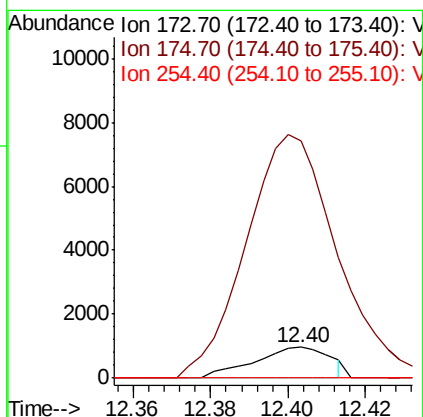
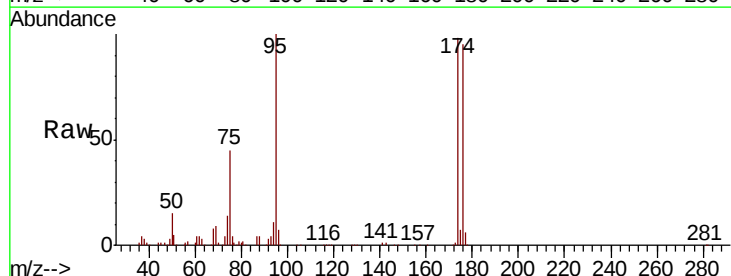
Instrument :
MSVOA_N
ClientSampleId :
STORAGE-BLANK-SAMPLE-MANA

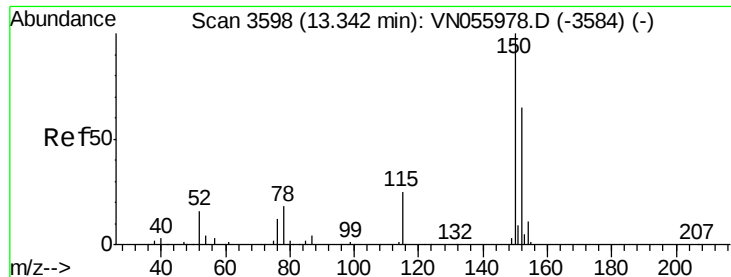
Tot Ion:117 Resp: 458897
Ion Ratio Lower Upper
117 100
82 51.0 41.8 62.8
119 31.7 25.4 38.0



#71
Bromoform
Concen: 3.212 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN056108.D
Acq: 7 Jun 2019 19:20

Tgt Ion:173 Resp: 1315
Ion Ratio Lower Upper
173 100
175 830.2 24.3 72.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN056108.D

Acq: 7 Jun 2019 19:20

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-SAMPLE-MANA

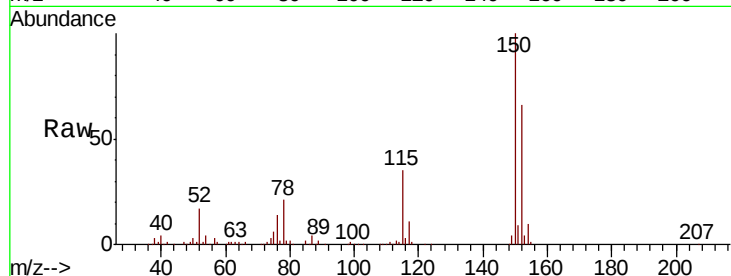
Tot Ion:152 Resp: 145474

Ion Ratio Lower Upper

152 100

115 52.6 27.0 81.0

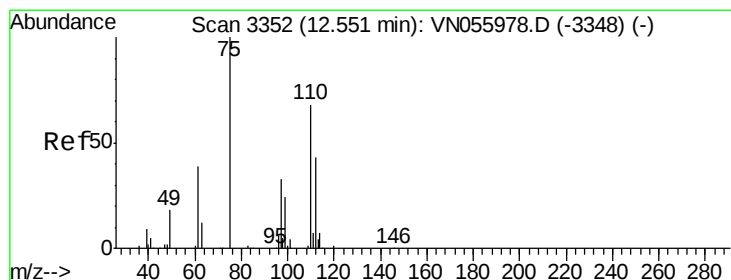
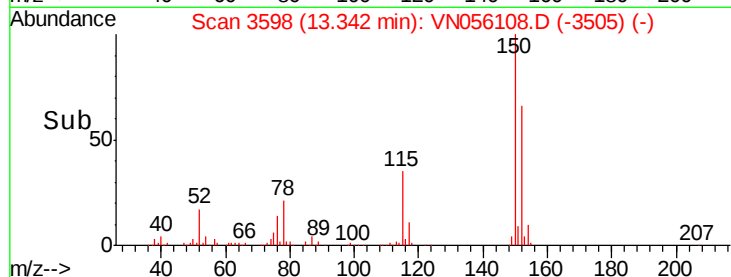
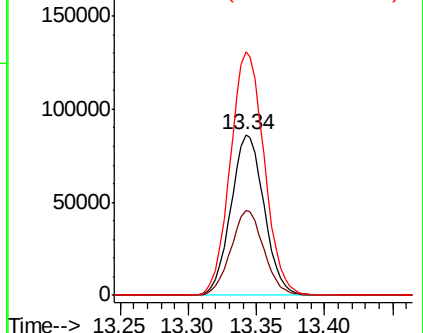
150 155.2 0.0 343.2



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



#76

1,2,3-Trichloropropane

Concen: 31.020 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056108.D

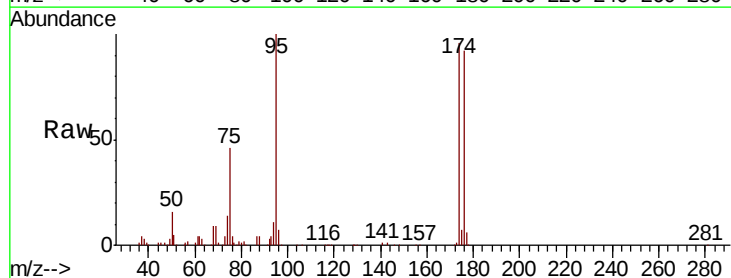
Acq: 7 Jun 2019 19:20

Tgt Ion: 75 Resp: 83033

Ion Ratio Lower Upper

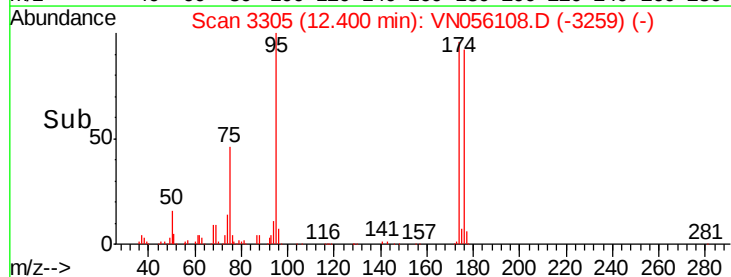
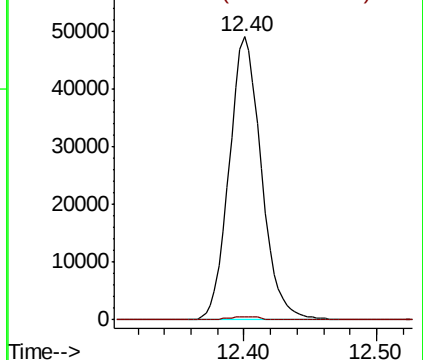
75 100

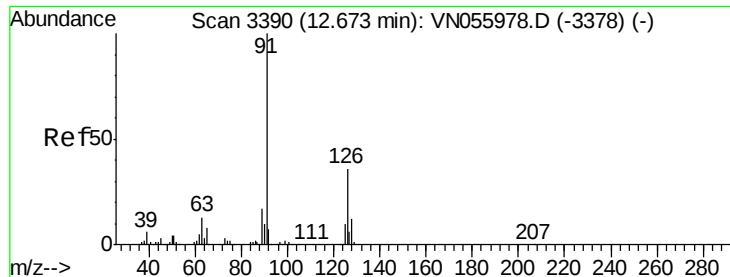
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. -0.27 min

Lab File: VN056108.D

Acq: 7 Jun 2019 19:20

Instrument :

MSVOA_N

ClientSampleId :

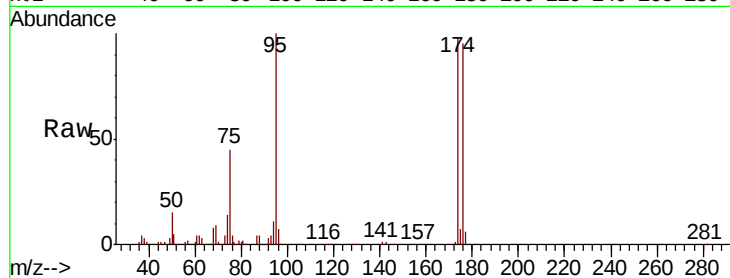
STORAGE-BLANK-SAMPLE-MANA

Tot Ion: 91 Resp: 452

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VNO

Ion 125.90 (125.60 to 126.60): V

12.40

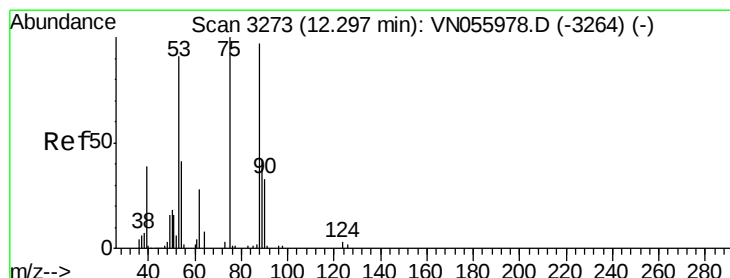
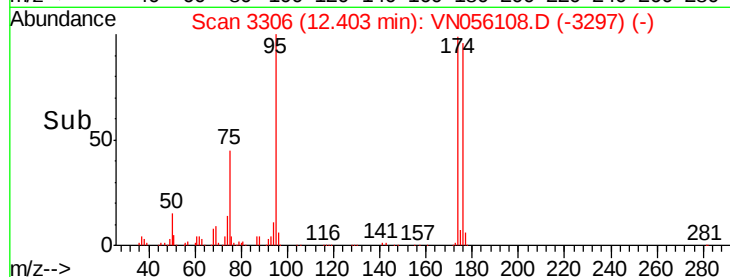
300

200

100

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 103.301 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056108.D

Acq: 7 Jun 2019 19:20

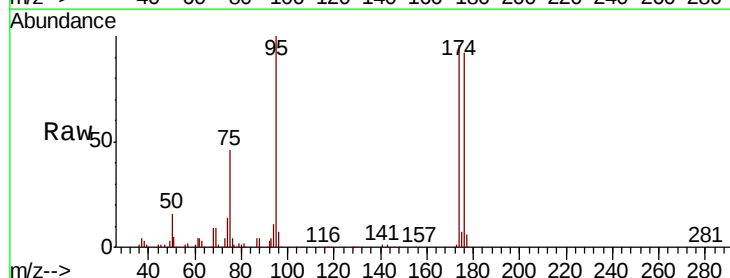
Tgt Ion: 75 Resp: 83033

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

12.40

60000

40000

20000

0

Time-->

