

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032719\
 Data File : VN054724.D
 Acq On : 27 Mar 2019 16:09
 Operator : JC/SP
 Sample : K2097-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 28 04:37:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	548359	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	890851	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	739063	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	258460	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	363117	53.24	ug/l	0.00
Spiked Amount			Recovery	=	106.48%	
35) Dibromofluoromethane	7.59	113	286078	49.85	ug/l	0.00
Spiked Amount			Recovery	=	99.70%	
50) Toluene-d8	10.09	98	1070473	49.61	ug/l	0.00
Spiked Amount			Recovery	=	99.22%	
62) 4-Bromofluorobenzene	12.40	95	322613	43.94	ug/l	0.00
Spiked Amount			Recovery	=	87.88%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.83	43	10356	5.050	ug/l	90
18) Methyl Acetate	4.34	43	2268	0.496	ug/l #	64
20) Methylene Chloride	4.55	84	18574	3.073	ug/l #	82
25) 2-Butanone	6.87	43	1776	0.676	ug/l	96
29) Tetrahydrofuran	7.24	42	1146	0.672	ug/l #	48
31) Cyclohexane	7.67	56	12294	Below Cal	#	30
36) 1,1-Dichloropropene	7.67	75	42581	5.112	ug/l #	47
38) Carbon Tetrachloride	7.66	117	50655	6.258	ug/l #	16
43) Isopropyl Acetate	8.17	43	13746	1.374	ug/l #	82
48) Methyl methacrylate	9.18	41	6063	1.116	ug/l #	11
51) 4-Methyl-2-Pentanone	9.99	43	4140	0.747	ug/l #	82
53) t-1,3-Dichloropropene	10.09	75	330	2.270	ug/l #	1
54) cis-1,3-Dichloropropene	9.90	75	46597	5.132	ug/l #	71
57) 1,3-Dichloropropane	10.77	76	6833	0.746	ug/l #	43
59) 2-Hexanone	10.77	43	105916	29.243	ug/l #	47
71) Bromoform	12.40	173	948	2.464	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	166834	40.678	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	166834	134.507	ug/l #	11

(#) = 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: VN054724.D

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Instrument :

MSVOA_N

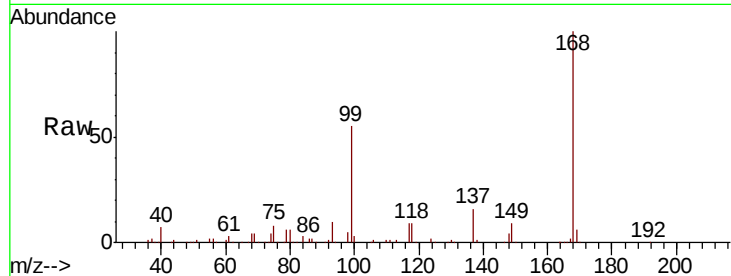
ClientSampled :

Tot Ion:168 Resp: 548359

Ion Ratio Lower Upper

168 100

99 55.1 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

200000

150000

100000

50000

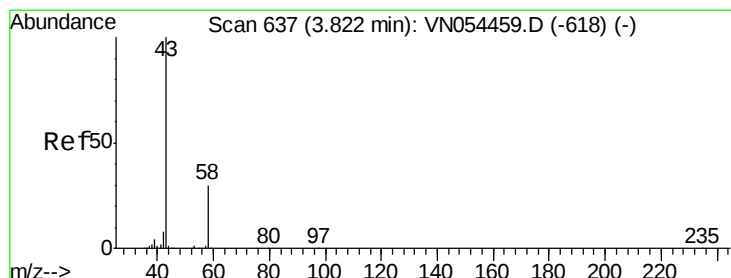
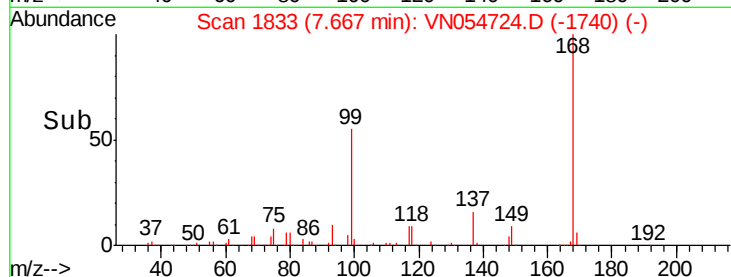
0

7.60

7.70

7.80

Time-->



#16

Acetone

Concen: 5.050 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN054724.D

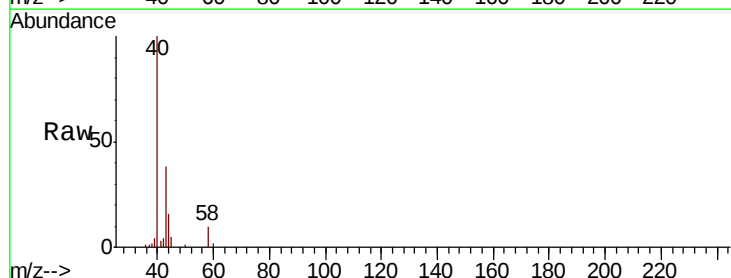
Acq: 27 Mar 2019 16:09

Tgt Ion: 43 Resp: 10356

Ion Ratio Lower Upper

43 100

58 31.7 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.83

5000

4000

3000

2000

1000

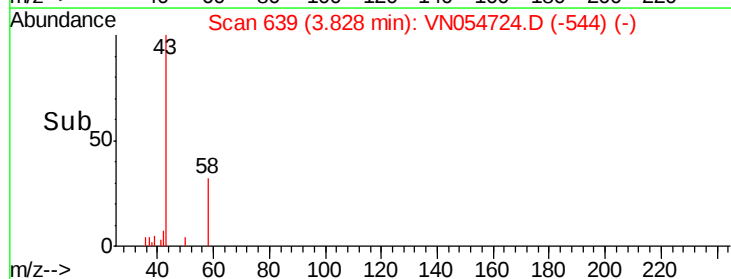
0

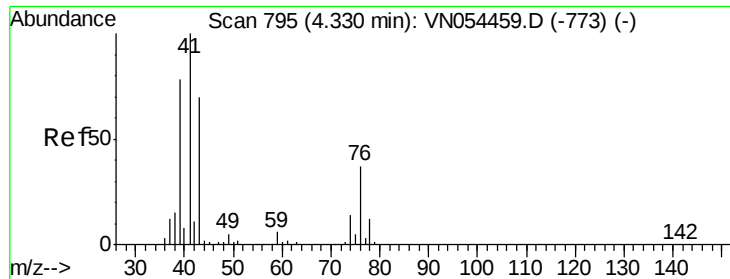
3.75

3.80

3.85

Time-->

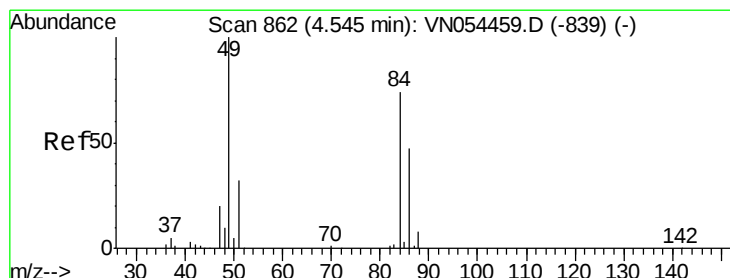
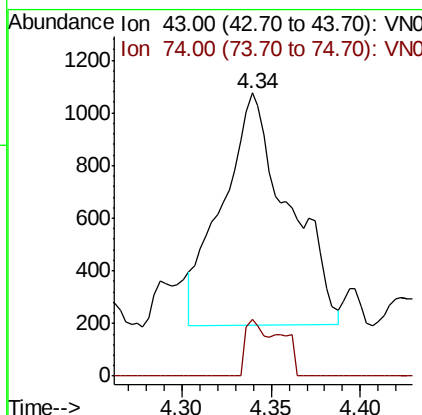
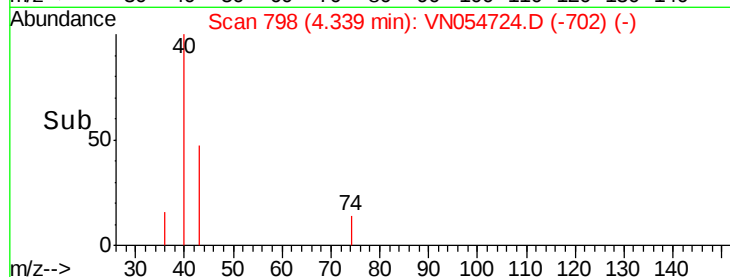
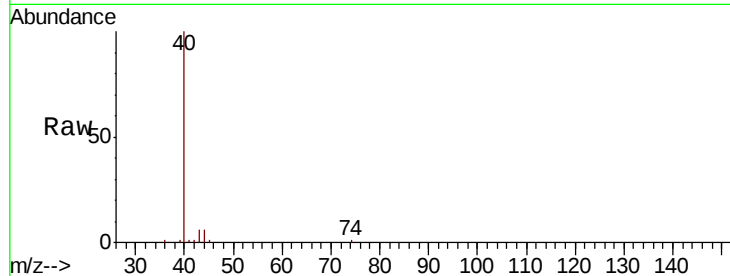




#18
Methyl Acetate
Concen: 0.496 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN054724.D
Acq: 27 Mar 2019 16:09

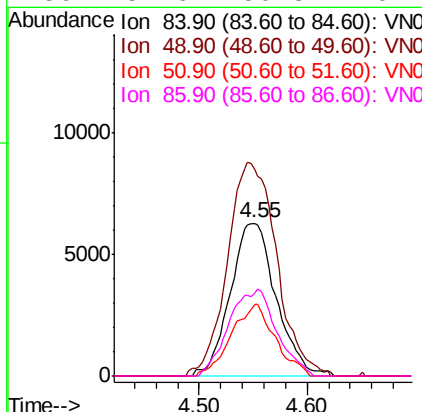
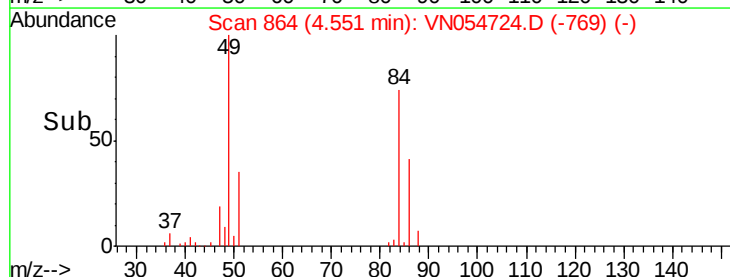
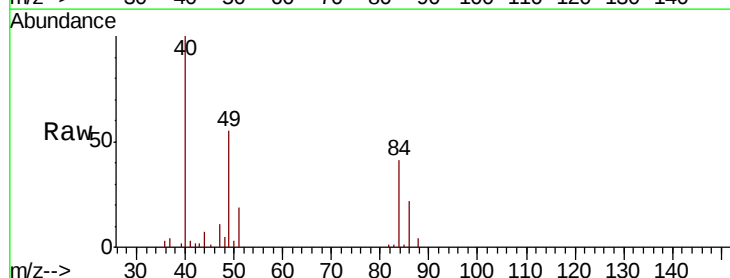
Instrument :
MSVOA_N
ClientSampled :

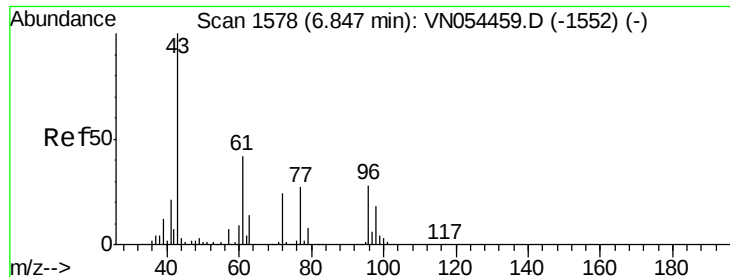
Tot Ion: 43 Resp: 2268
Ion Ratio Lower Upper
43 100
74 7.6 20.8 31.2#



#20
Methylene Chloride
Concen: 3.073 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.01 min
Lab File: VN054724.D
Acq: 27 Mar 2019 16:09

Tgt Ion: 84 Resp: 18574
Ion Ratio Lower Upper
84 100
49 134.7 89.7 134.5#
51 47.2 28.2 42.4#
86 54.6 50.8 76.2





#25

2-Butanone

Concen: 0.676 ug/l

RT: 6.87 min Scan# 1585

Delta R.T. 0.02 min

Lab File: VN054724.D

Acq: 27 Mar 2019 16:09

Instrument :

MSVOA_N

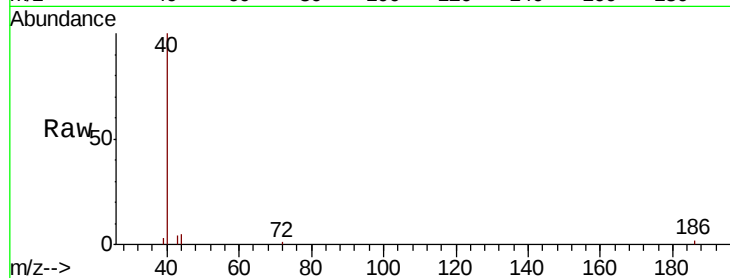
ClientSampled :

Tot Ion: 43 Resp: 1776

Ion Ratio Lower Upper

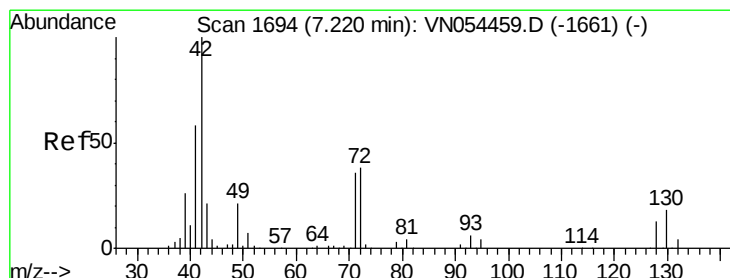
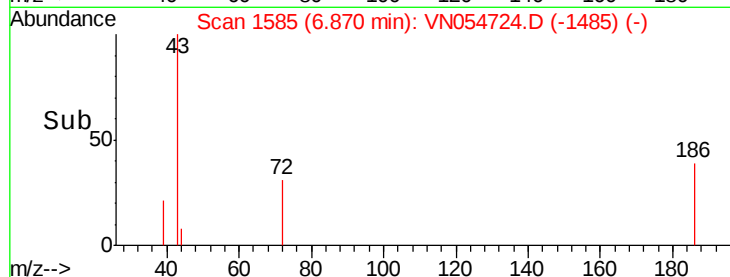
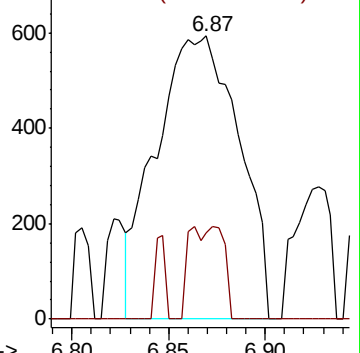
43 100

72 30.7 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 0.672 ug/l

RT: 7.24 min Scan# 1699

Delta R.T. 0.02 min

Lab File: VN054724.D

Acq: 27 Mar 2019 16:09

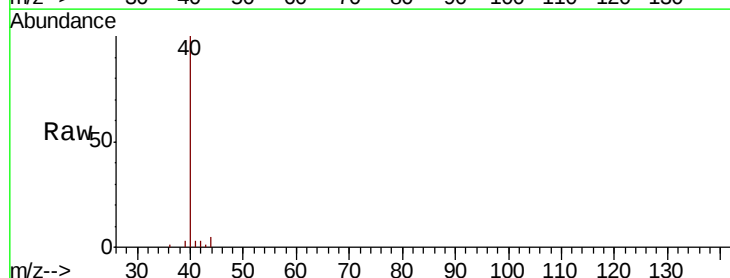
Tgt Ion: 42 Resp: 1146

Ion Ratio Lower Upper

42 100

72 2.7 37.8 56.6#

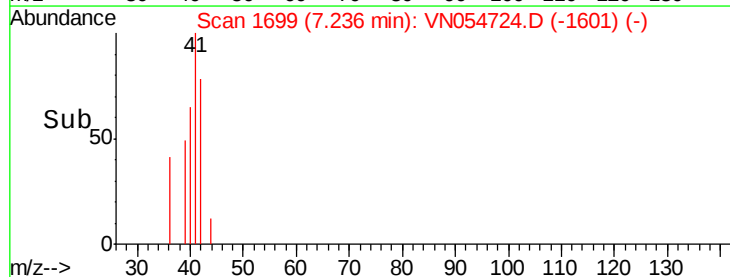
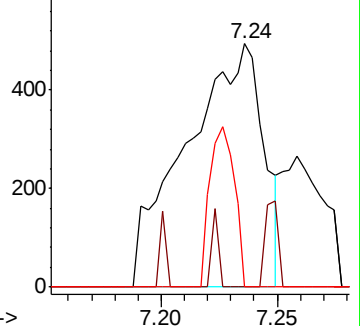
71 20.9 36.2 54.2#

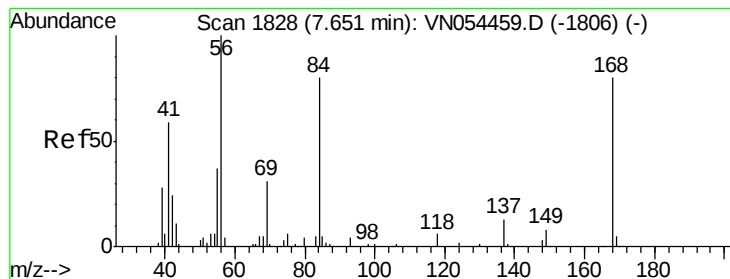


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

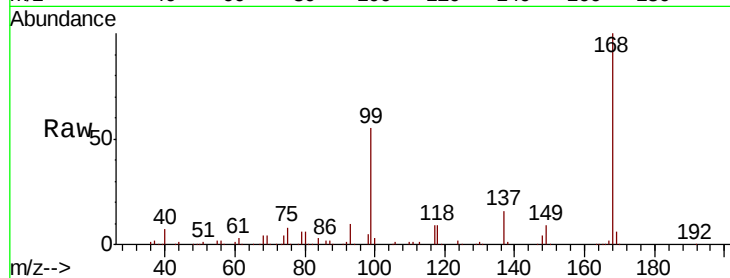
Lab File: VN054724.D

Acq: 27 Mar 2019 16:09

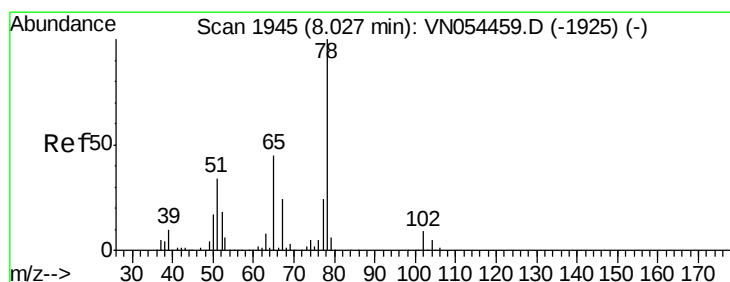
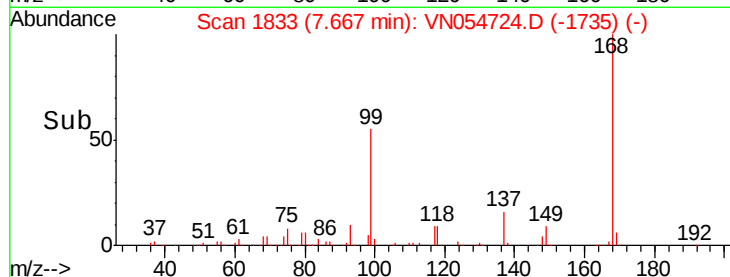
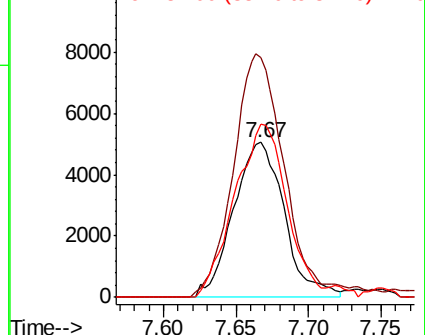
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 12294

Ion	Ratio	Lower	Upper
56	100		
69	154.6	27.8	41.6#
84	111.7	74.6	111.8



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: 53.237 ug/l

RT: 8.03 min Scan# 1946

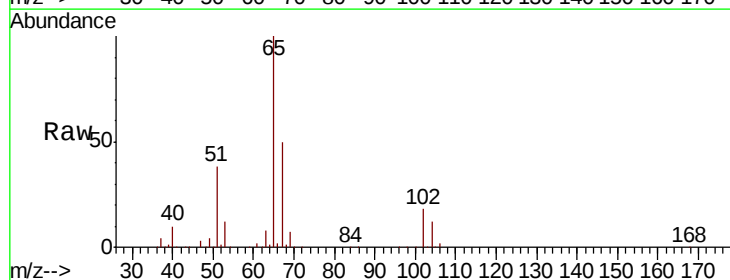
Delta R.T. 0.00 min

Lab File: VN054724.D

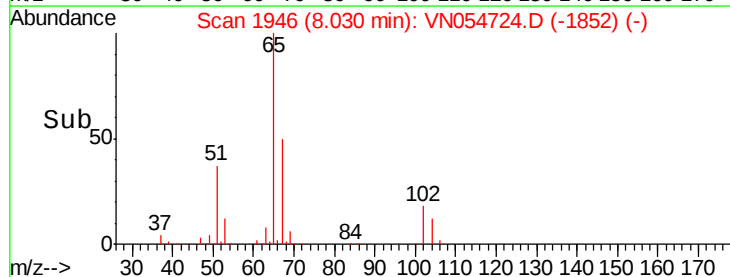
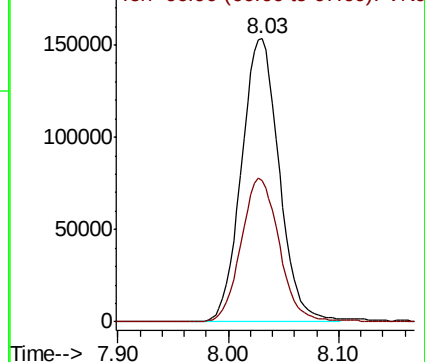
Acq: 27 Mar 2019 16:09

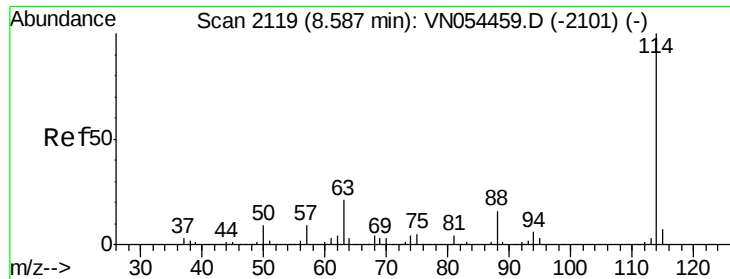
Tgt Ion: 65 Resp: 363117

Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	104.6



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: VN054724.D

Acq: 27 Mar 2019 16:09

Instrument :

MSVOA_N

ClientSampleId :

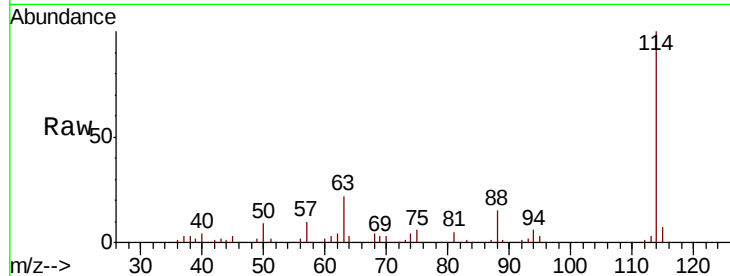
Tot Ion:114 Resp: 890851

Ion Ratio Lower Upper

114 100

63 22.2 0.0 35.2

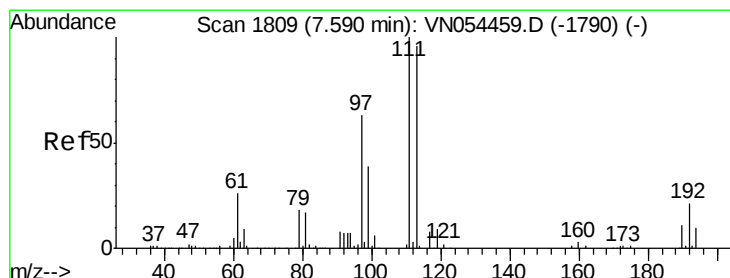
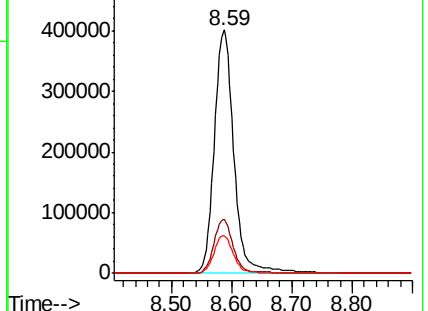
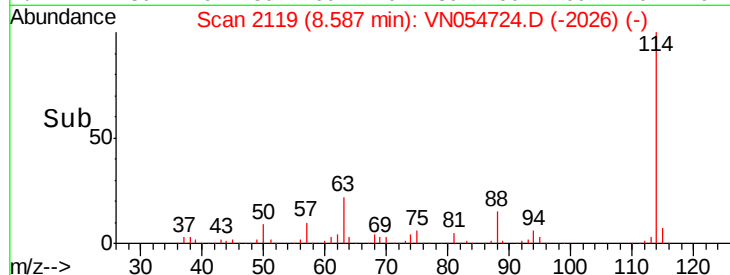
88 15.3 0.0 30.2



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: 49.846 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054724.D

Acq: 27 Mar 2019 16:09

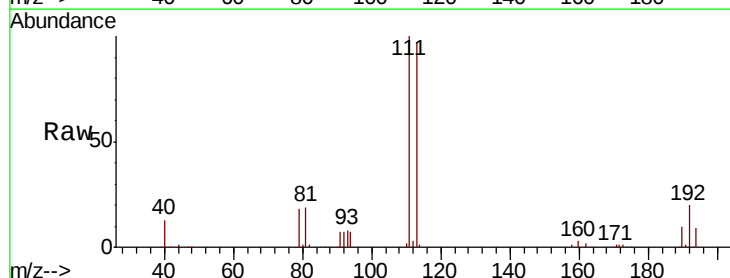
Tgt Ion:113 Resp: 286078

Ion Ratio Lower Upper

113 100

111 102.9 82.2 123.4

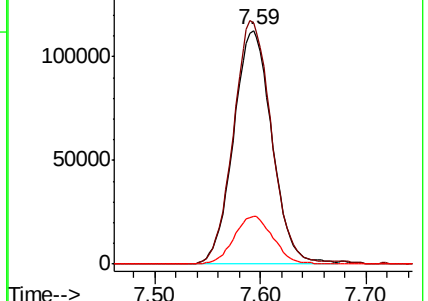
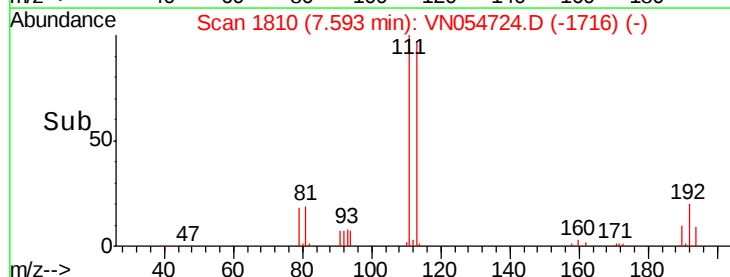
192 20.6 19.2 28.8

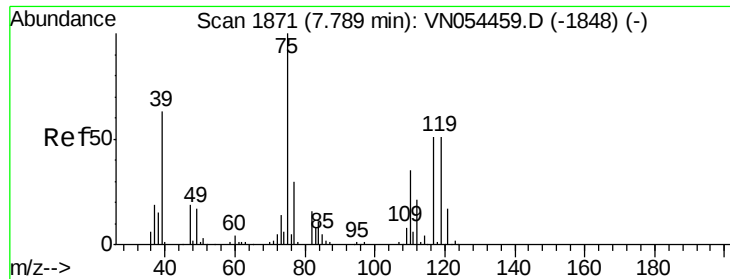


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

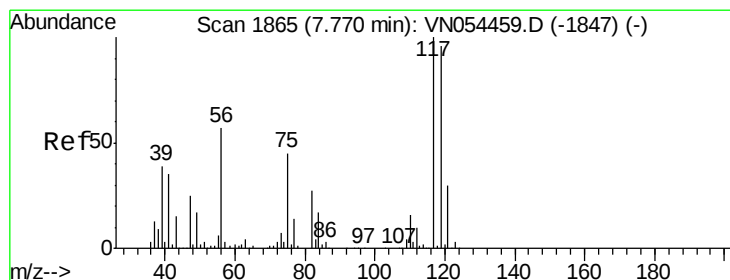
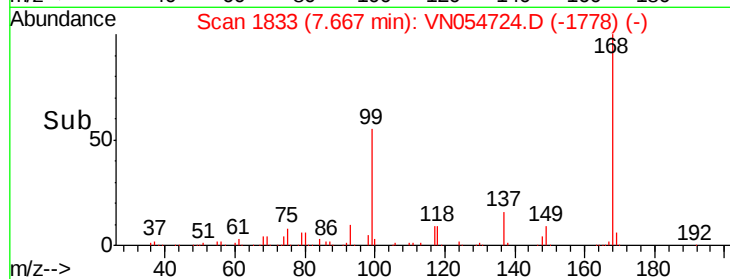
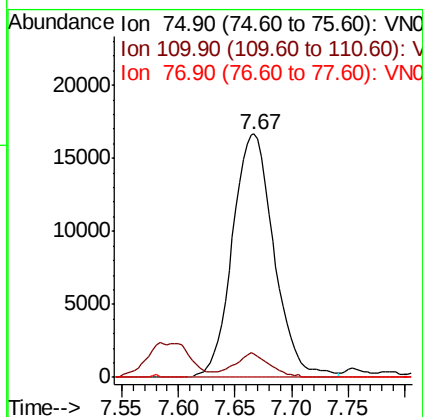
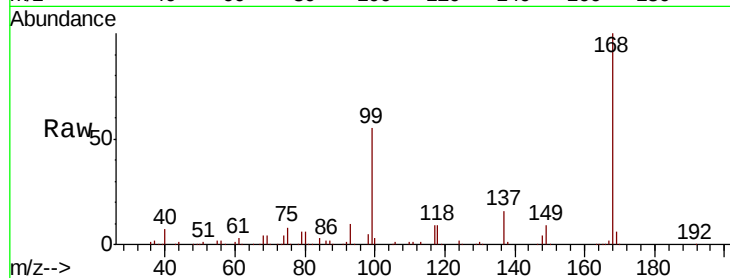




#36
 1,1-Dichloropropene
 Concen: 5.112 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054724.D
 Acq: 27 Mar 2019 16:09

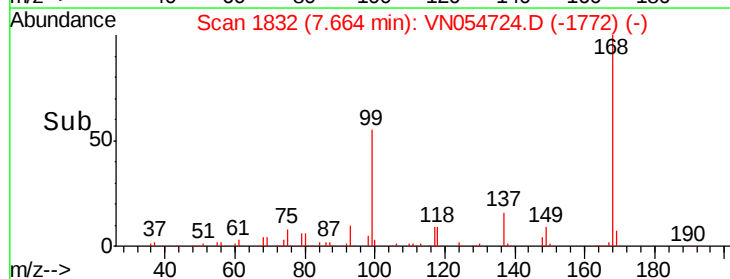
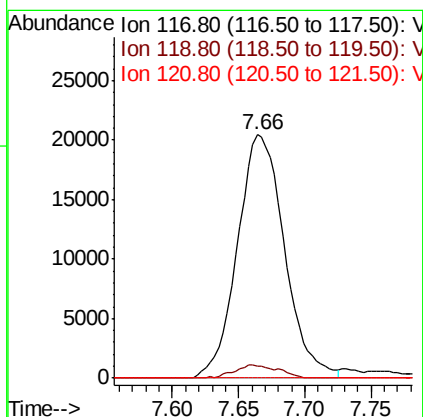
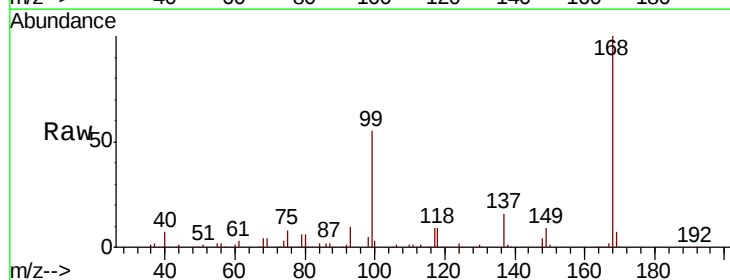
Instrument :
 MSVOA_N
 ClientSampled :

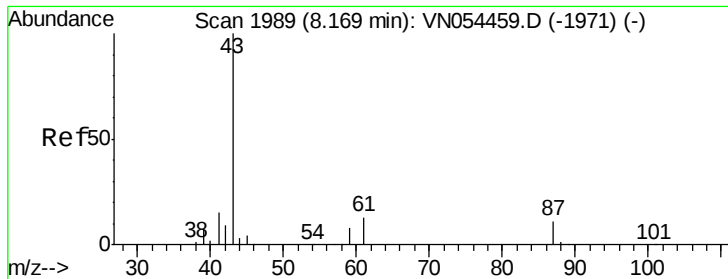
Tot Ion	75	110	77	Resp	Lower	Upper
75	100					
110	8.5	19.1				57.5#
77	0.0	25.0				37.4#



#38
 Carbon Tetrachloride
 Concen: 6.258 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN054724.D
 Acq: 27 Mar 2019 16:09

Tgt Ion	117	119	121	Resp	Lower	Upper
117	100					
119	5.1	76.3				114.5#
121	0.0	24.6				36.8#





#43

Isopropyl Acetate

Concen: 1.374 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054724.D

Acq: 27 Mar 2019 16:09

Instrument :

MSVOA_N

ClientSampleId :

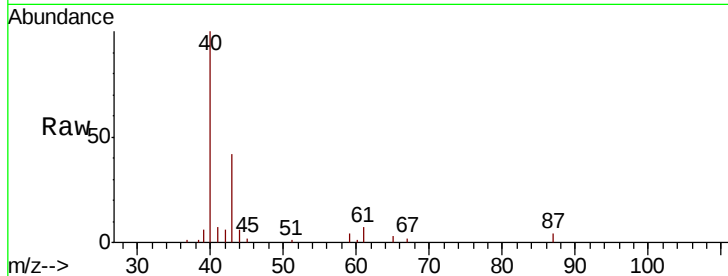
Tot Ion: 43 Resp: 13746

Ion Ratio Lower Upper

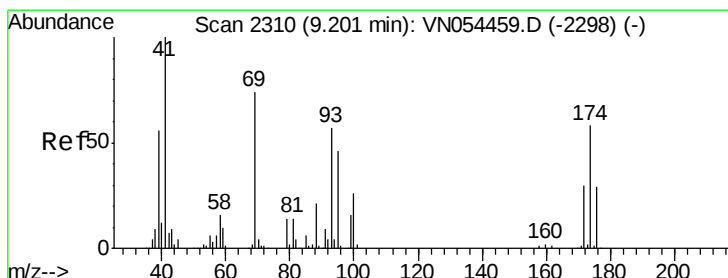
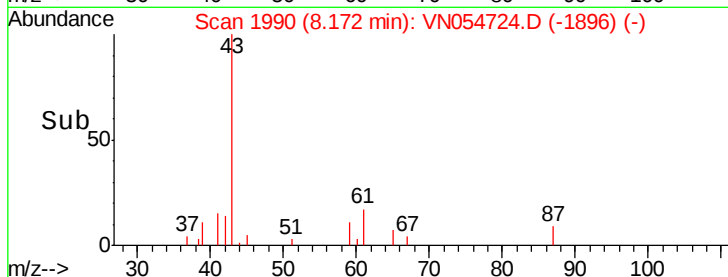
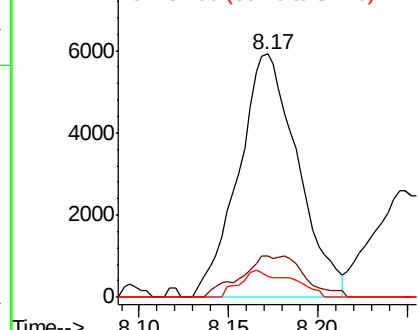
43 100

61 9.7 15.8 23.8#

87 9.7 12.0 18.0#



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 61.00 (60.70 to 61.70): VNC
Ion 87.00 (86.70 to 87.70): VNC



#48

Methyl methacrylate

Concen: 1.116 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. -0.02 min

Lab File: VN054724.D

Acq: 27 Mar 2019 16:09

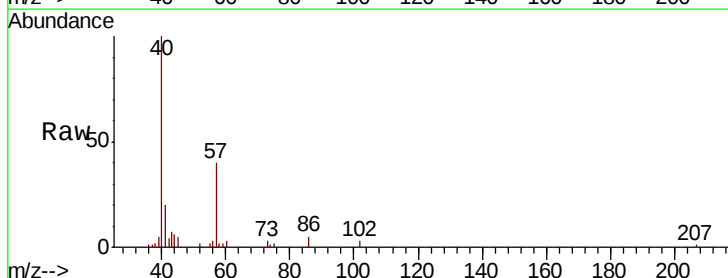
Tgt Ion: 41 Resp: 6063

Ion Ratio Lower Upper

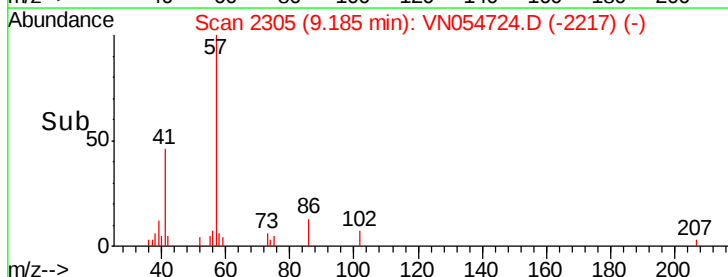
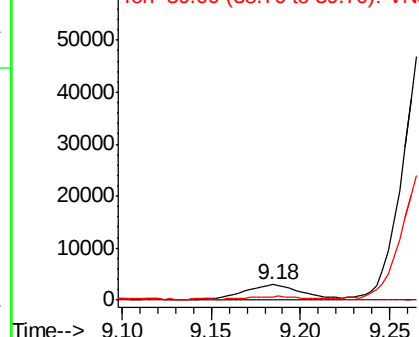
41 100

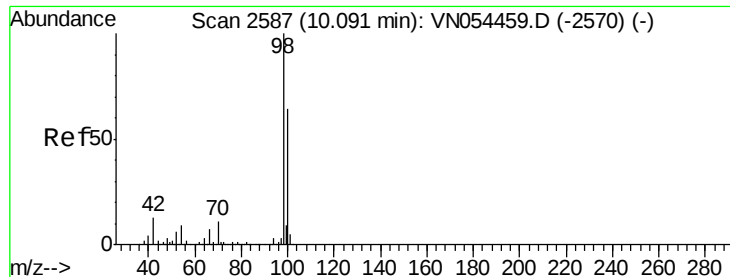
69 0.0 72.6 108.8#

39 0.0 47.5 71.3#



Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC





#50

Toluene-d8

Concen: 49.614 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054724.D

Acq: 27 Mar 2019 16:09

Instrument :

MSVOA_N

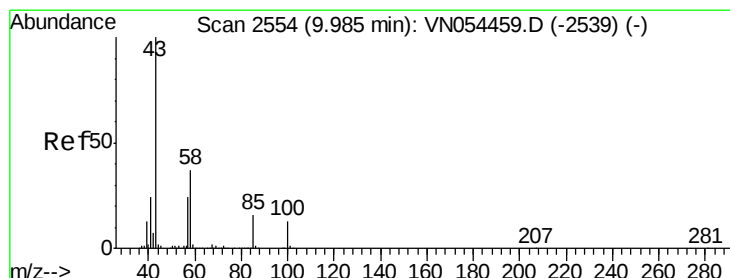
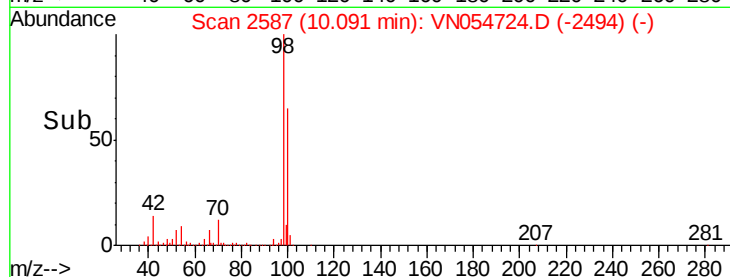
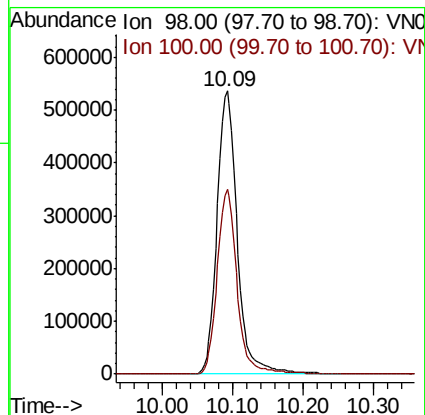
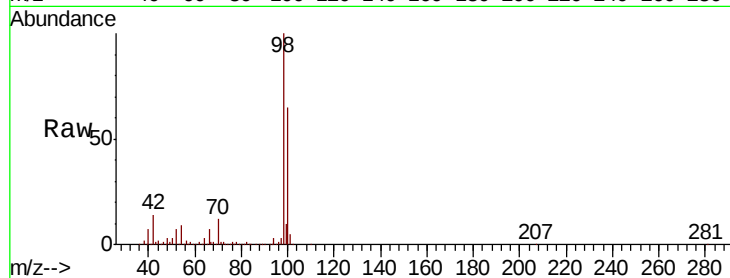
ClientSampleId :

Tot Ion: 98 Resp: 1070473

Ion Ratio Lower Upper

98 100

100 64.4 51.2 76.8



#51

4-Methyl-2-Pentanone

Concen: 0.747 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN054724.D

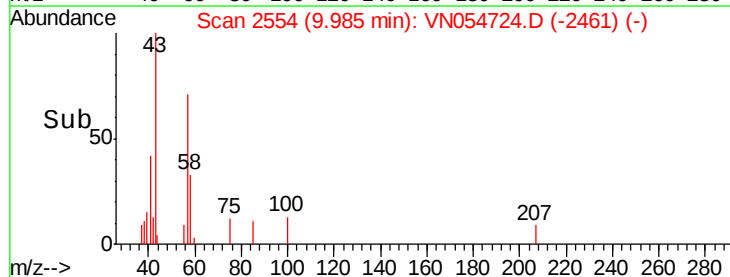
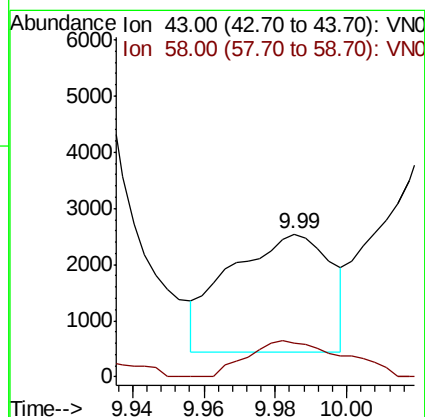
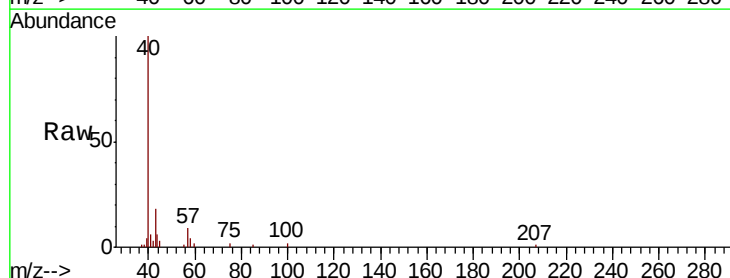
Acq: 27 Mar 2019 16:09

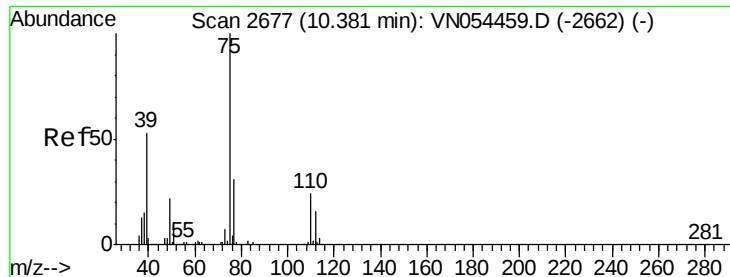
Tgt Ion: 43 Resp: 4140

Ion Ratio Lower Upper

43 100

58 28.9 31.8 47.6#





#53

t-1,3-Dichloropropene

Concen: 2.270 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.29 min

Lab File: VN054724.D

Acq: 27 Mar 2019 16:09

Instrument :

MSVOA_N

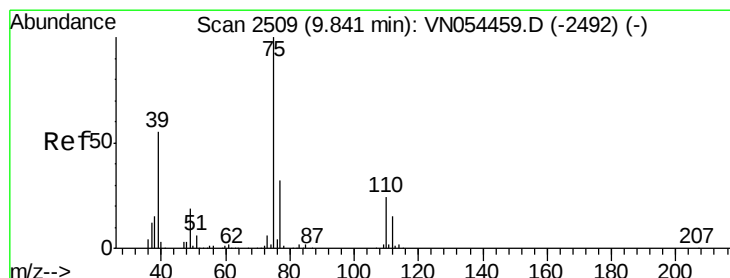
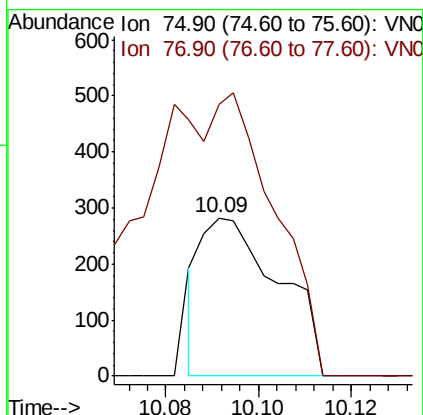
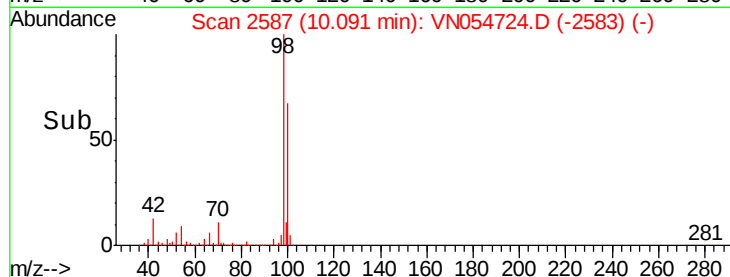
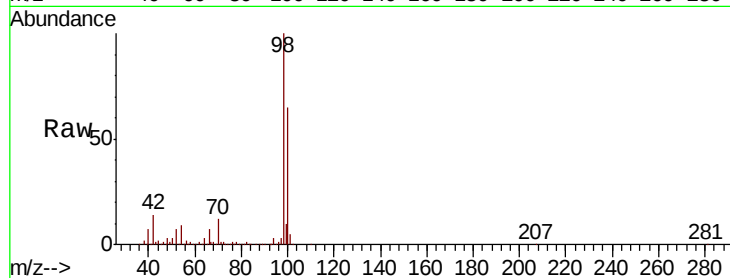
ClientSampled :

Tot Ion: 75 Resp: 330

Ion Ratio Lower Upper

75 100

77 171.0 25.8 38.8#



#54

cis-1,3-Dichloropropene

Concen: 5.132 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054724.D

Acq: 27 Mar 2019 16:09

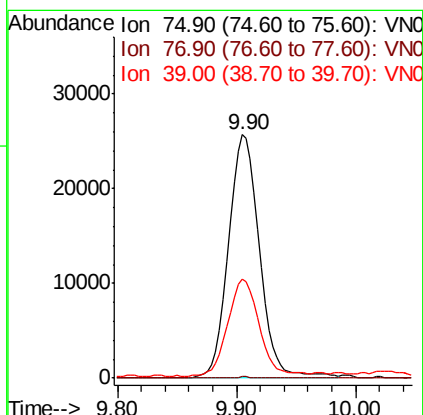
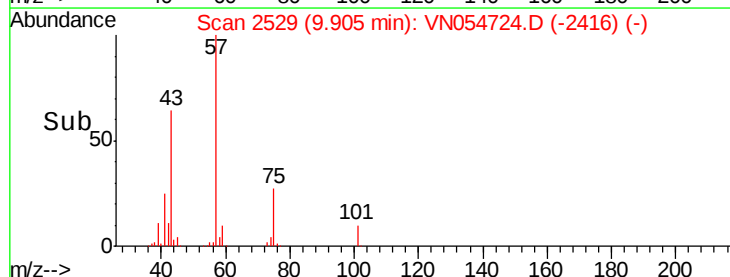
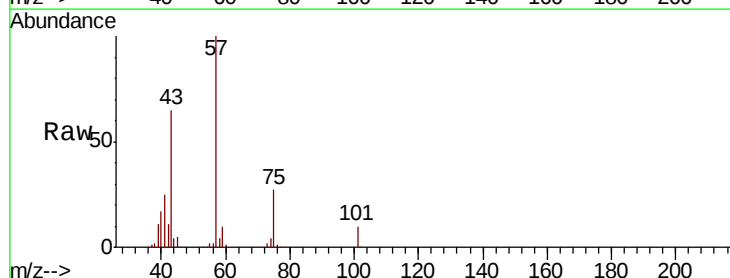
Tgt Ion: 75 Resp: 46597

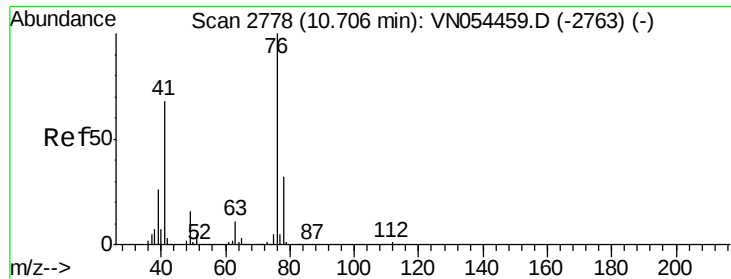
Ion Ratio Lower Upper

75 100

77 0.7 25.4 38.0#

39 39.6 37.2 55.8





#57

1,3-Dichloropropane

Concen: 0.746 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN054724.D

Acq: 27 Mar 2019 16:09

Instrument :

MSVOA_N

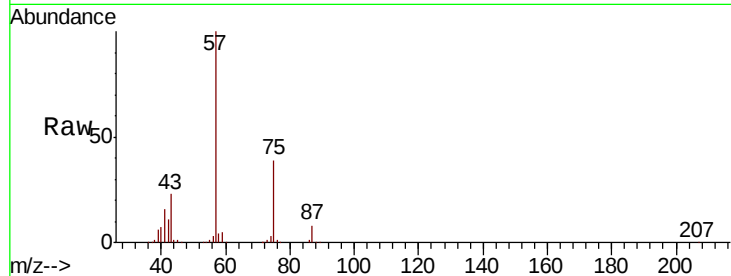
ClientSampled :

Tot Ion: 76 Resp: 6833

Ion Ratio Lower Upper

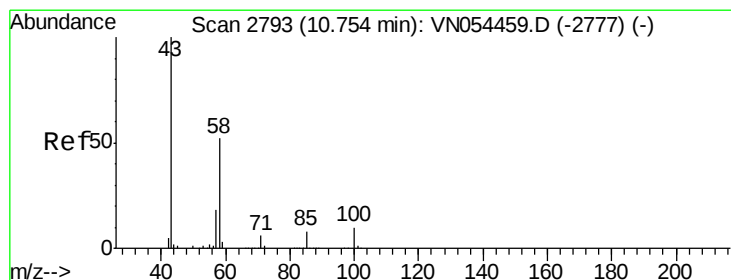
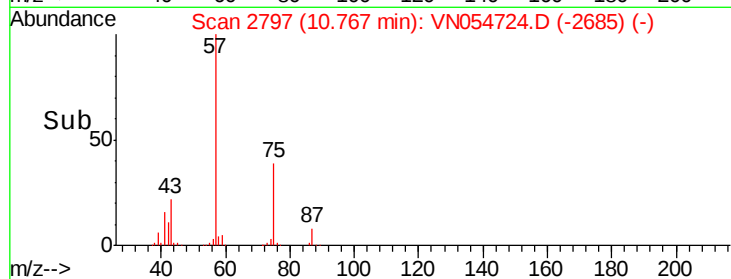
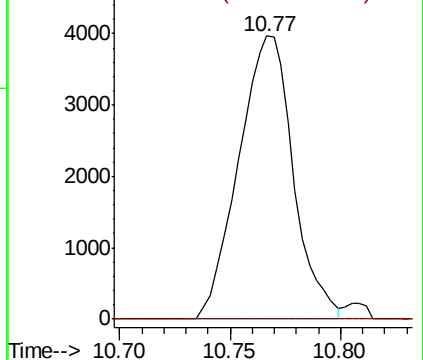
76 100

78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 29.243 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN054724.D

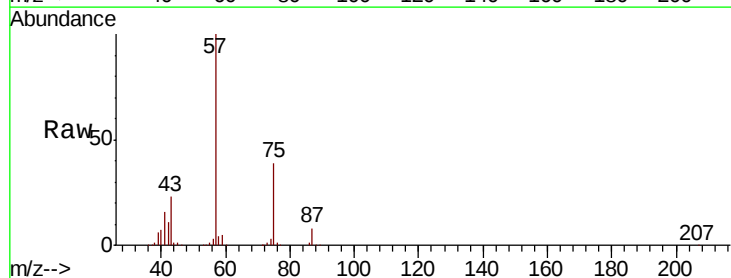
Acq: 27 Mar 2019 16:09

Tgt Ion: 43 Resp: 105916

Ion Ratio Lower Upper

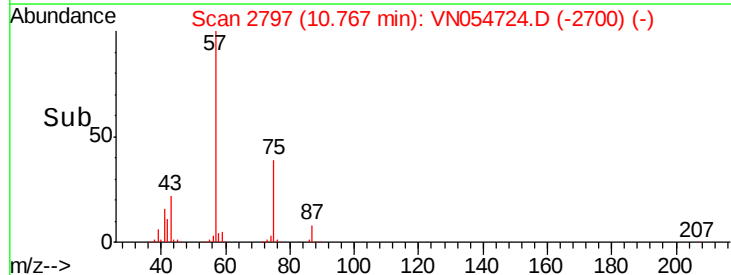
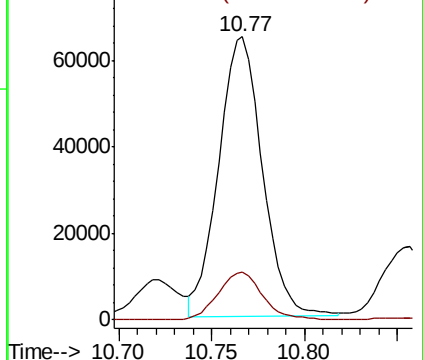
43 100

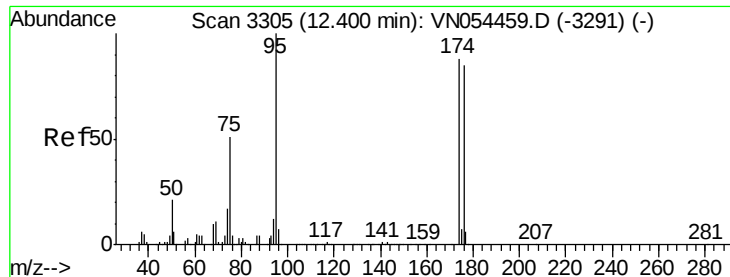
58 17.6 28.0 83.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 43.941 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054724.D

Acq: 27 Mar 2019 16:09

Instrument :

MSVOA_N

ClientSampleId :

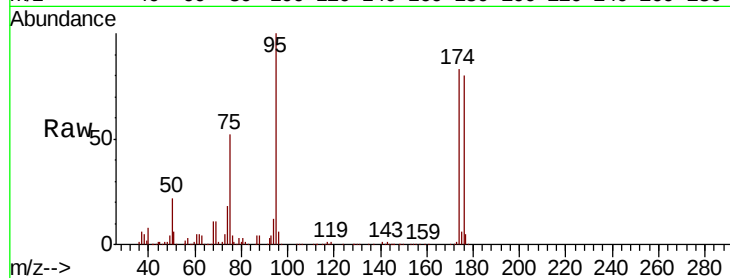
Tot Ion: 95 Resp: 322613

Ion Ratio Lower Upper

95 100

174 82.4 0.0 191.0

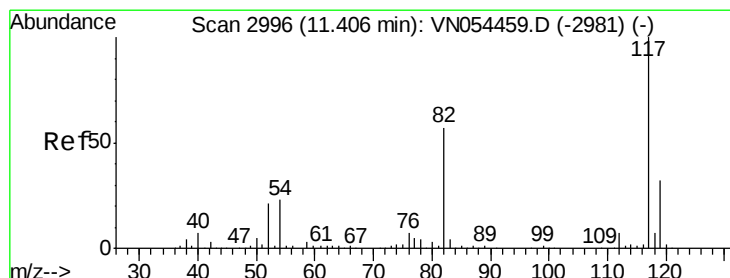
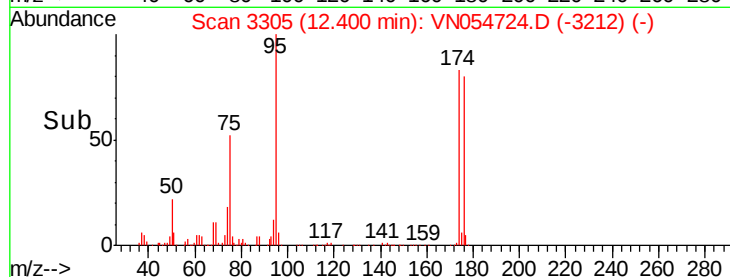
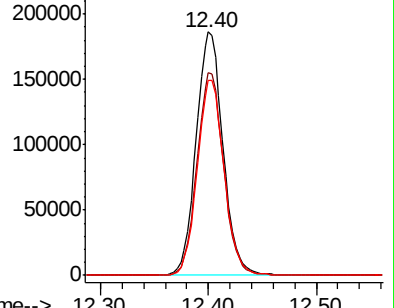
176 80.3 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054459.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN054459.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN054459.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN054724.D

Acq: 27 Mar 2019 16:09

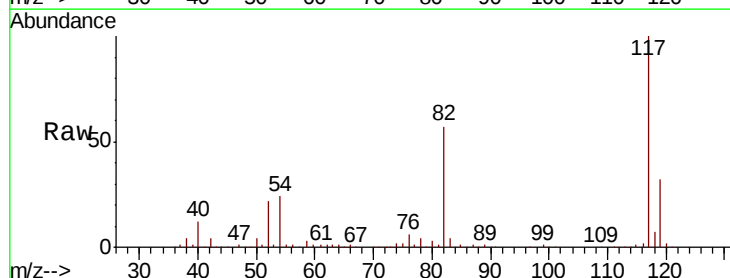
Tgt Ion: 117 Resp: 739063

Ion Ratio Lower Upper

117 100

82 56.9 40.0 60.0

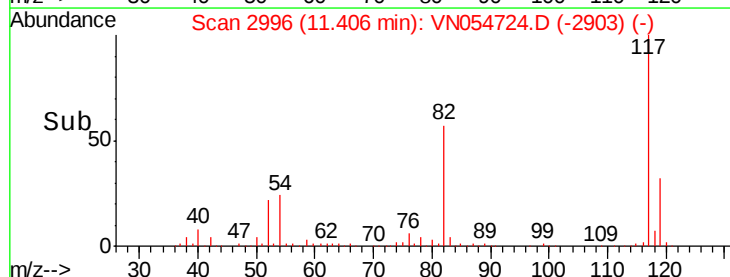
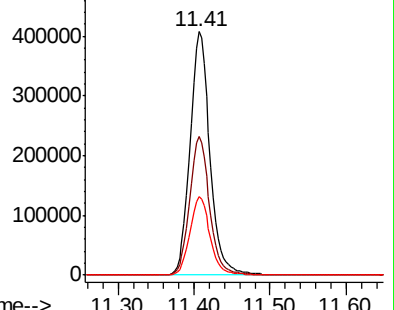
119 32.2 25.8 38.6

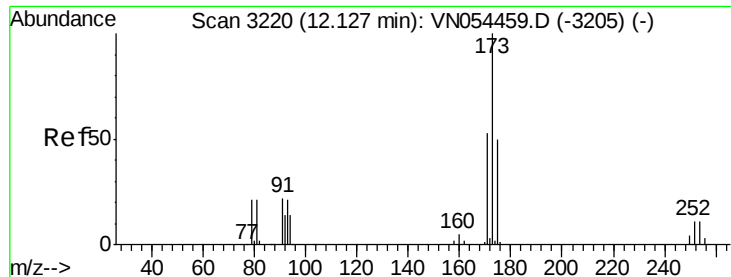


Abundance Ion 116.90 (116.60 to 117.60): VN054459.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN054459.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN054459.D (-2981) (-)

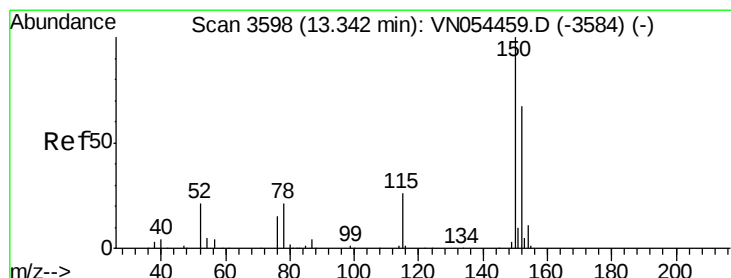
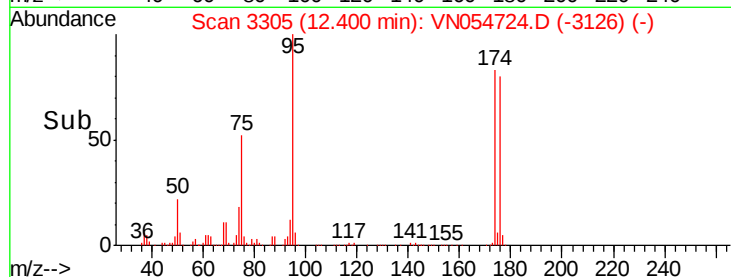
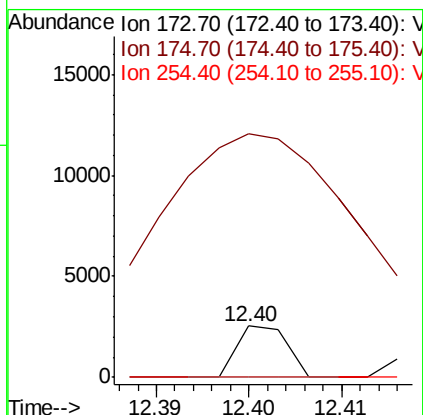
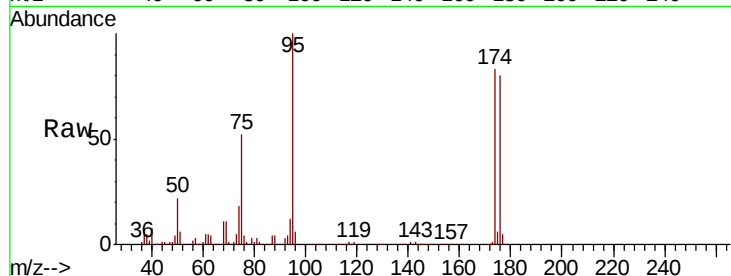




#71
Bromoform
Concen: 2.464 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN054724.D
Acq: 27 Mar 2019 16:09

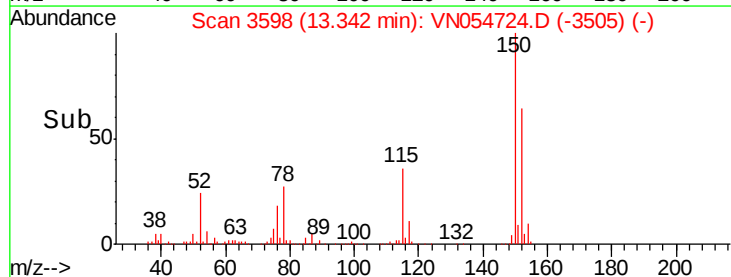
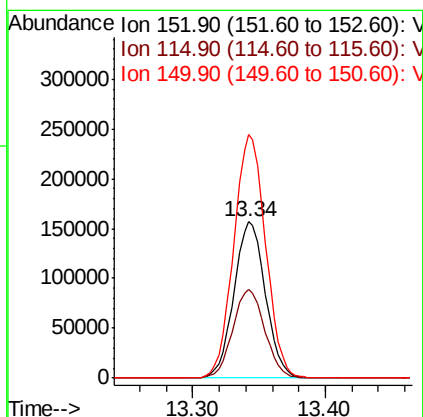
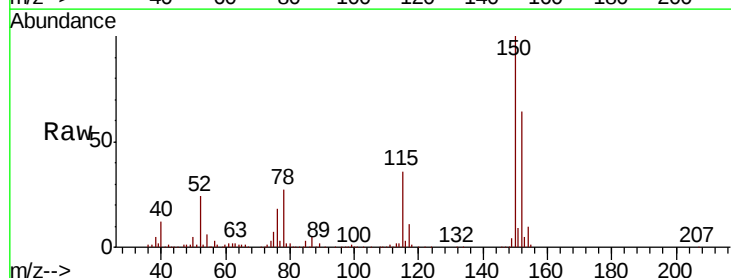
Instrument :
MSVOA_N
ClientSampled :

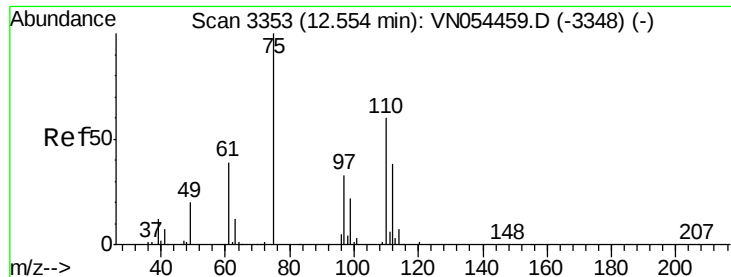
Tot Ion:173 Resp: 948
Ion Ratio Lower Upper
173 100
175 1887.4 24.4 73.2#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054724.D
Acq: 27 Mar 2019 16:09

Tgt Ion:152 Resp: 258460
Ion Ratio Lower Upper
152 100
115 57.7 27.2 81.6
150 157.3 0.0 349.2





#76

1,2,3-Trichloropropane

Concen: 40.678 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054724.D

Acq: 27 Mar 2019 16:09

Instrument :

MSVOA_N

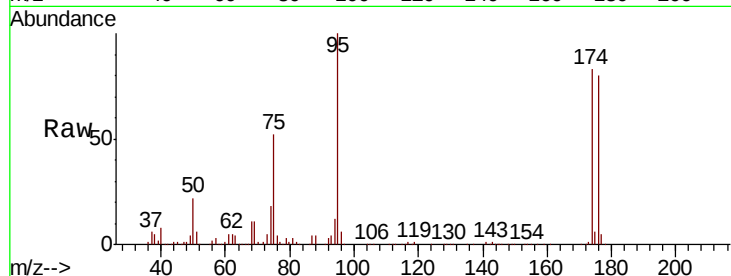
ClientSampled :

Tot Ion: 75 Resp: 166834

Ion Ratio Lower Upper

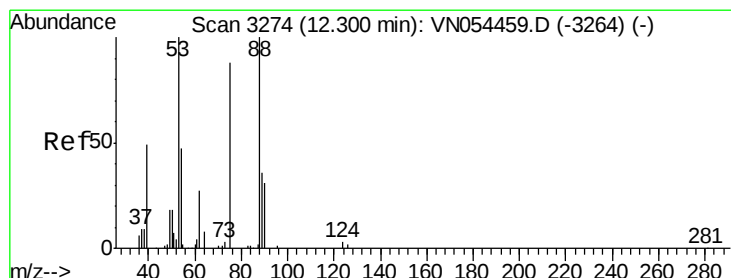
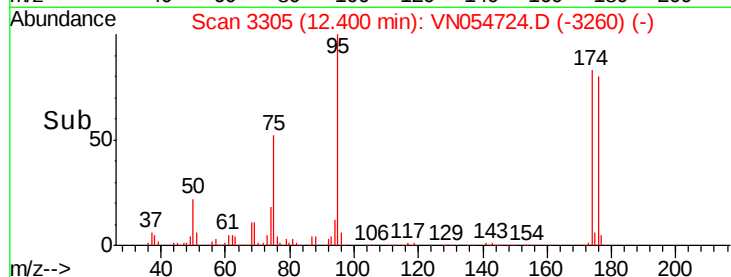
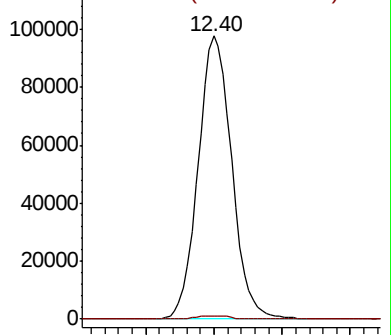
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 134.507 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054724.D

Acq: 27 Mar 2019 16:09

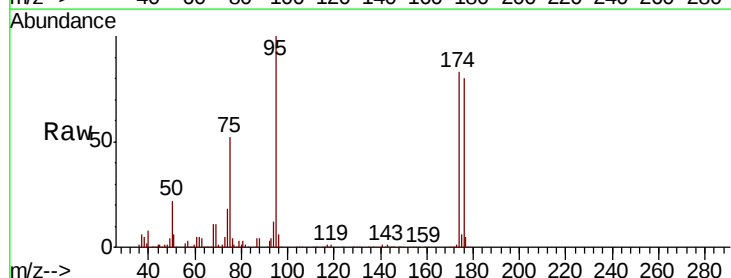
Tgt Ion: 75 Resp: 166834

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

