

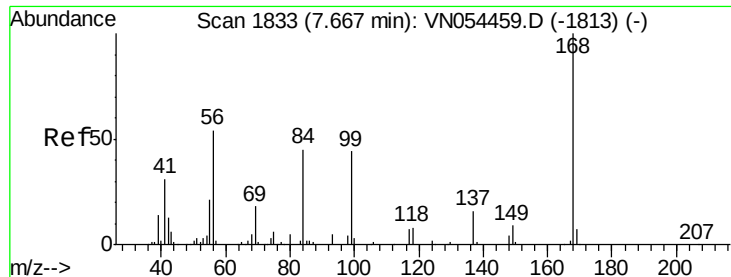
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032719\
 Data File : VN054722.D
 Acq On : 27 Mar 2019 15:16
 Operator : JC/SP
 Sample : K2086-13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 28 04:36:51 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	540514	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	886328	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	746223	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	264358	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	354715	52.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.52%	
35) Dibromofluoromethane	7.59	113	280917	49.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.40%	
50) Toluene-d8	10.09	98	1062131	49.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.96%	
62) 4-Bromofluorobenzene	12.40	95	318732	43.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.26%	
Target Compounds						
					Qvalue	
16) Acetone	3.82	43	10054	4.974	ug/l	93
18) Methyl Acetate	4.33	43	1269	0.282	ug/l #	49
20) Methylene Chloride	4.55	84	18806	3.156	ug/l #	84
25) 2-Butanone	6.86	43	1882	0.727	ug/l #	46
29) Tetrahydrofuran	7.23	42	406	0.242	ug/l #	72
31) Cyclohexane	7.66	56	11855	Below Cal	#	34
36) 1,1-Dichloropropene	7.67	75	41156	4.966	ug/l #	44
38) Carbon Tetrachloride	7.66	117	49380	6.132	ug/l #	16
43) Isopropyl Acetate	8.17	43	14675	1.474	ug/l	94
48) Methyl methacrylate	9.18	41	7883	1.459	ug/l #	26
49) 1,4-Dioxane	8.97	88	31	0.513	ug/l #	27
51) 4-Methyl-2-Pentanone	10.02	43	8401	1.523	ug/l #	36
54) cis-1,3-Dichloropropene	9.90	75	51220	5.670	ug/l #	74
57) 1,3-Dichloropropane	10.76	76	9271	1.018	ug/l #	43
59) 2-Hexanone	10.76	43	153048	42.472	ug/l #	47
71) Bromoform	12.39	173	619	2.378	ug/l #	28
74) N-amyl acetate	11.88	43	14526	2.372	ug/l #	49
76) 1,2,3-Trichloropropane	12.40	75	165016	39.337	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	165016	130.177	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: VN054722.D

Acq: 27 Mar 2019 15:16

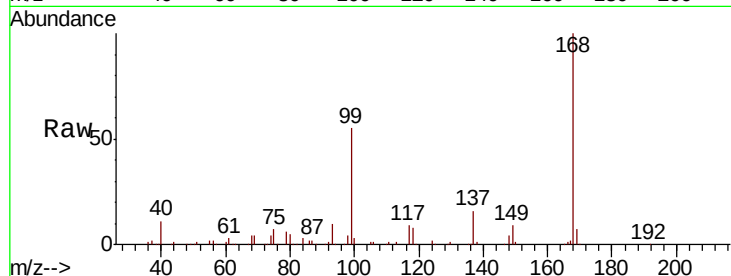
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 540514

Ion Ratio Lower Upper

168 100

99 54.8 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

250000

200000

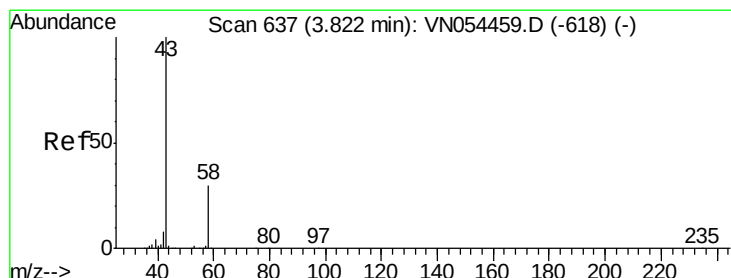
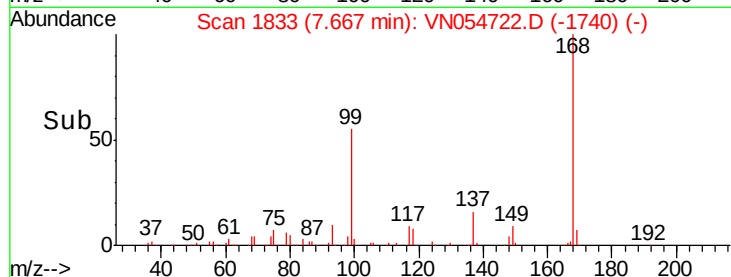
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 4.974 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN054722.D

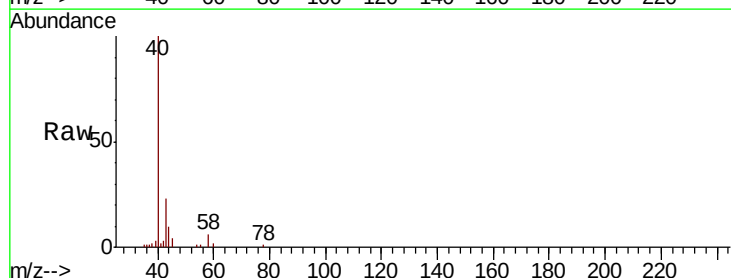
Acq: 27 Mar 2019 15:16

Tgt Ion: 43 Resp: 10054

Ion Ratio Lower Upper

43 100

58 33.3 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

5000

4000

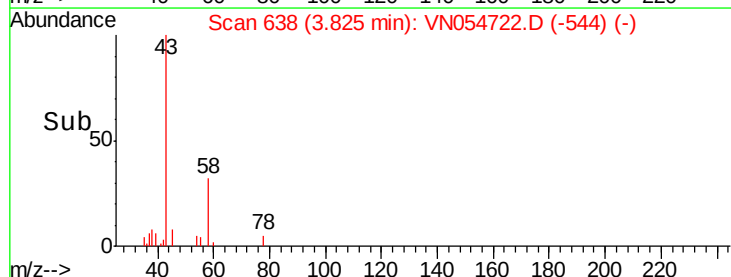
3000

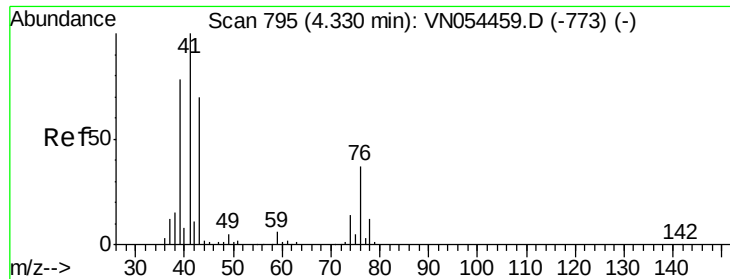
2000

1000

0

Time-->

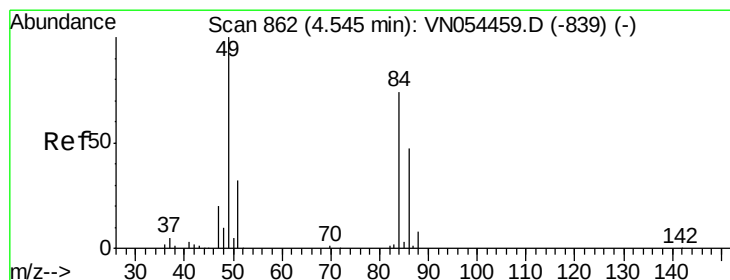
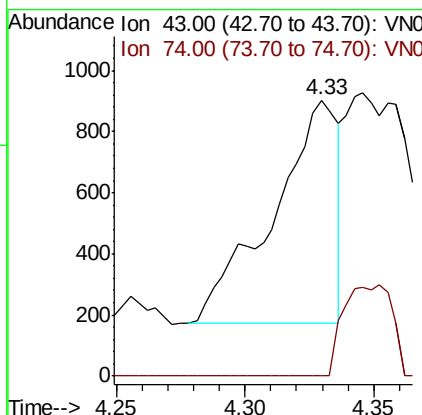
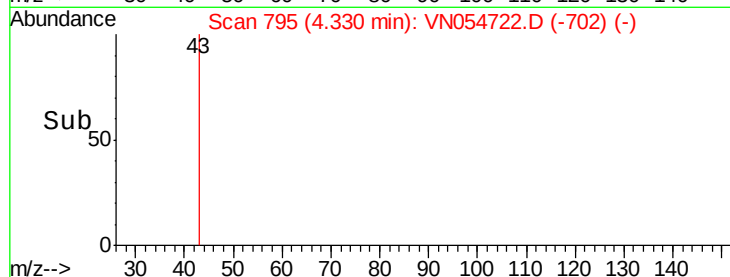
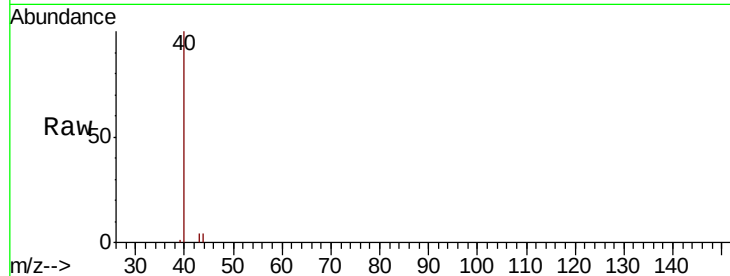




#18
Methvl Acetate
Concen: 0.282 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN054722.D
Acq: 27 Mar 2019 15:16

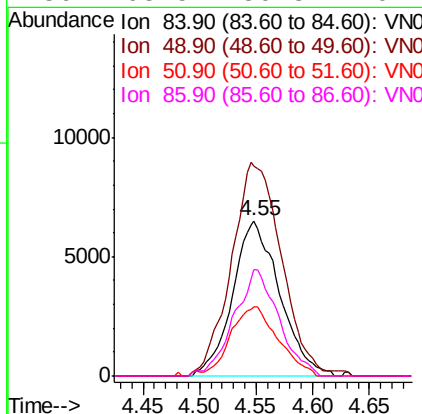
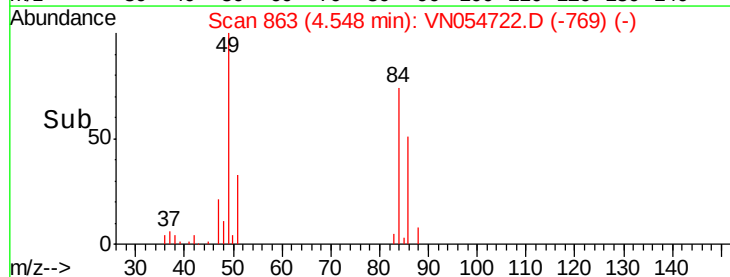
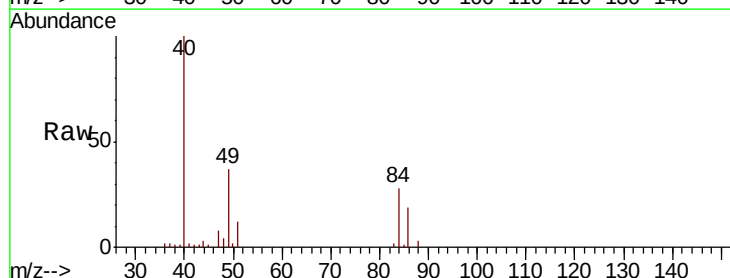
Instrument :
MSVOA_N
ClientSampleId :

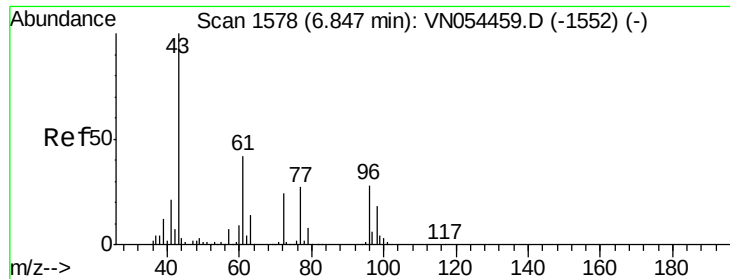
Tot Ion: 43 Resp: 1269
Ion Ratio Lower Upper
43 100
74 0.0 20.8 31.2#



#20
Methylene Chloride
Concen: 3.156 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054722.D
Acq: 27 Mar 2019 15:16

Tgt Ion: 84 Resp: 18806
Ion Ratio Lower Upper
84 100
49 135.4 89.7 134.5#
51 44.8 28.2 42.4#
86 68.5 50.8 76.2





#25

2-Butanone

Concen: 0.727 ug/l

RT: 6.86 min Scan# 1583

Delta R.T. 0.02 min

Lab File: VN054722.D

Acq: 27 Mar 2019 15:16

Instrument :

MSVOA_N

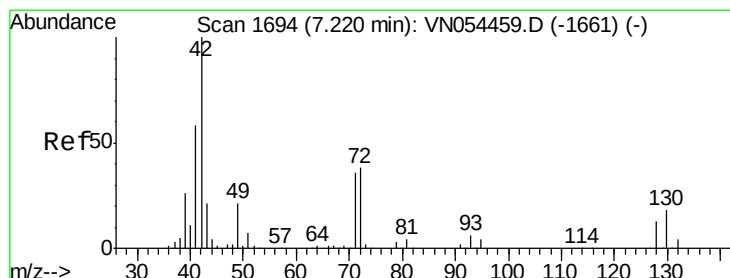
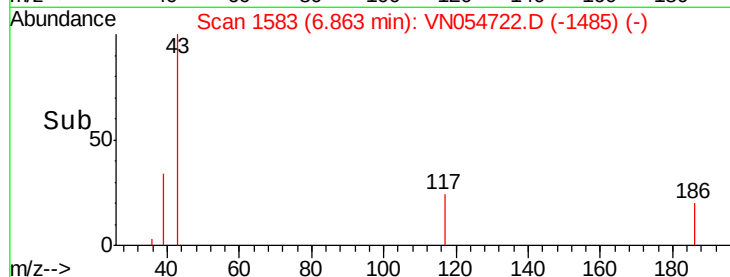
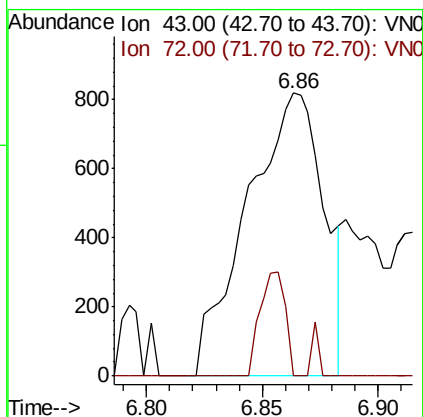
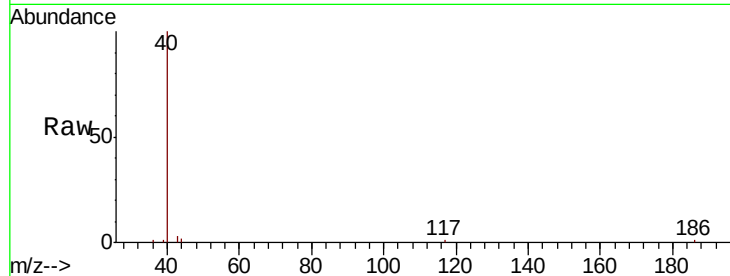
ClientSampled :

Tot Ion: 43 Resp: 1882

Ion Ratio Lower Upper

43 100

72 0.0 23.0 34.6#



#29

Tetrahydrofuran

Concen: 0.242 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.01 min

Lab File: VN054722.D

Acq: 27 Mar 2019 15:16

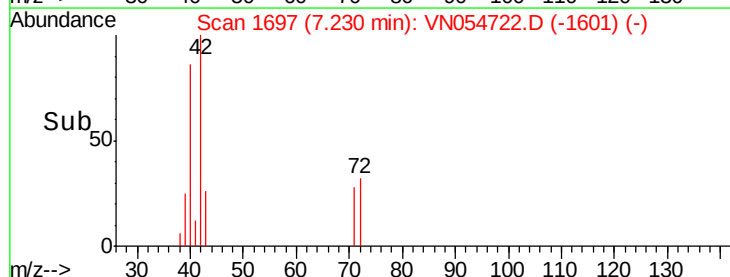
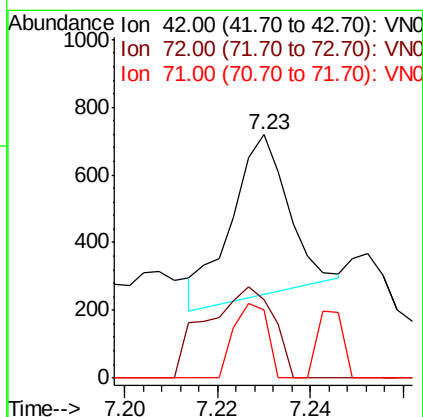
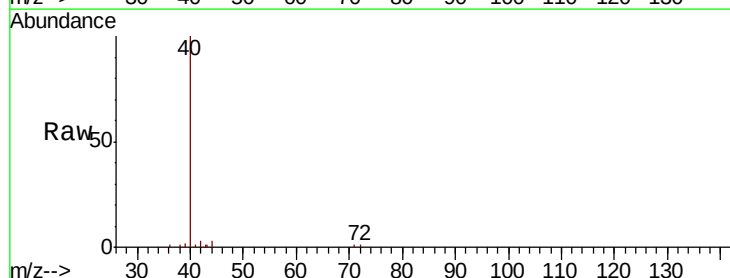
Tgt Ion: 42 Resp: 406

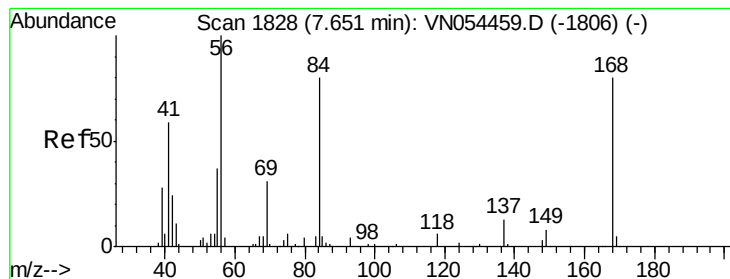
Ion Ratio Lower Upper

42 100

72 66.5 37.8 56.6#

71 27.1 36.2 54.2#





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

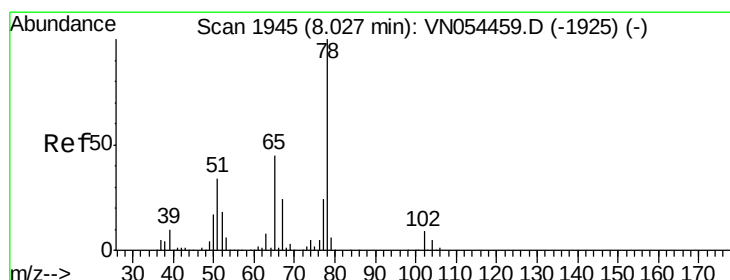
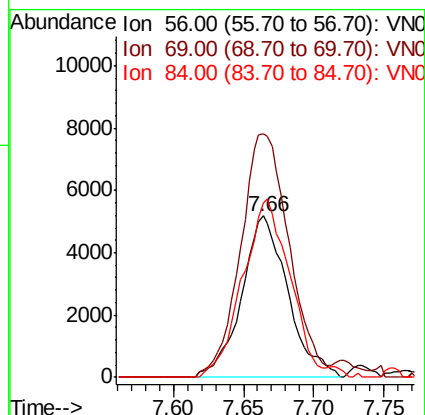
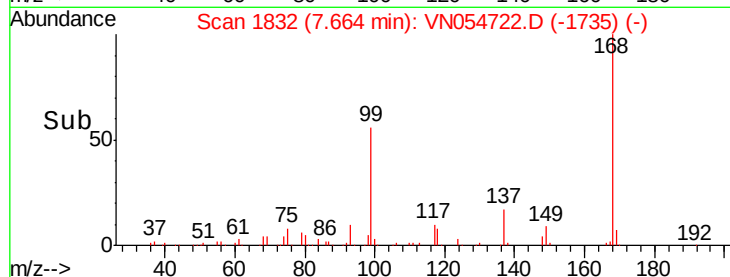
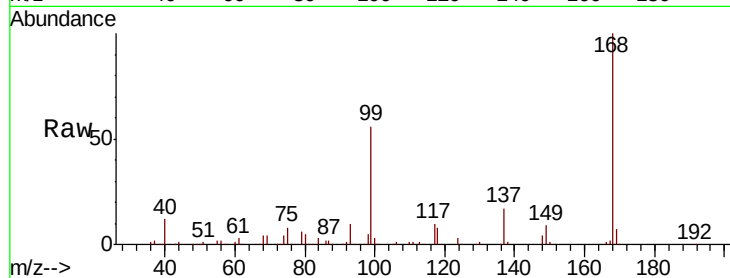
Lab File: VN054722.D

Acq: 27 Mar 2019 15:16

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 11855

Ion	Ratio	Lower	Upper
56	100		
69	150.7	27.8	41.6#
84	108.4	74.6	111.8



#33

1,2-Dichloroethane-d4

Concen: 52.760 ug/l

RT: 8.03 min Scan# 1945

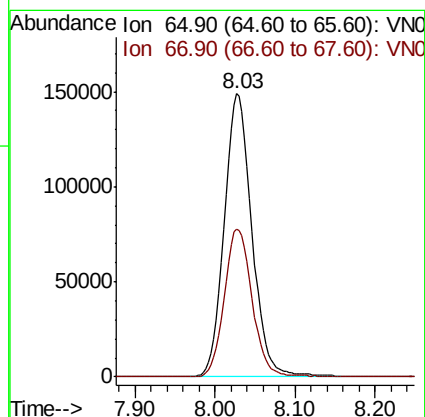
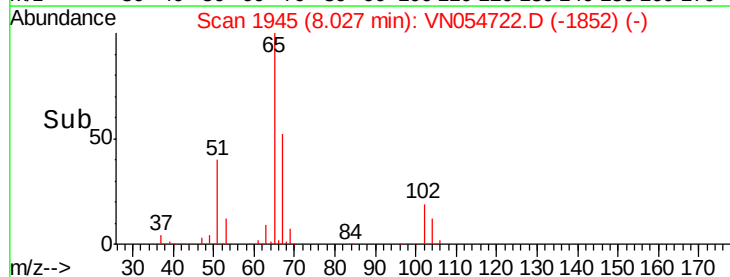
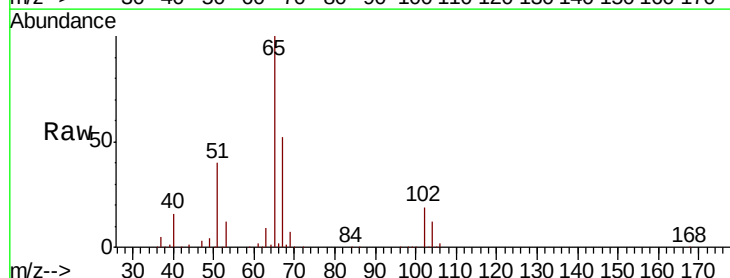
Delta R.T. 0.00 min

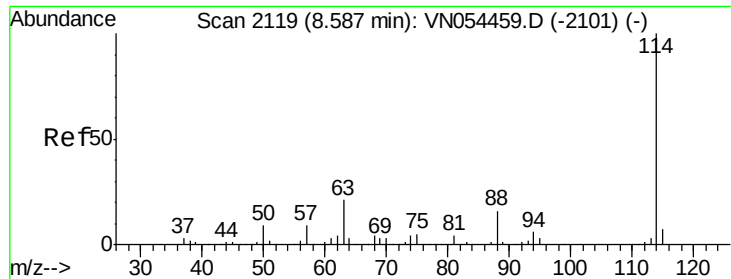
Lab File: VN054722.D

Acq: 27 Mar 2019 15:16

Tgt Ion: 65 Resp: 354715

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	104.6

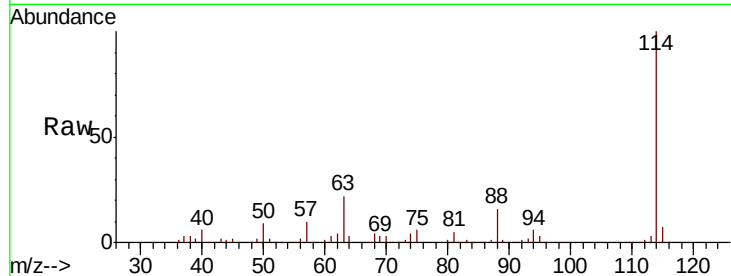




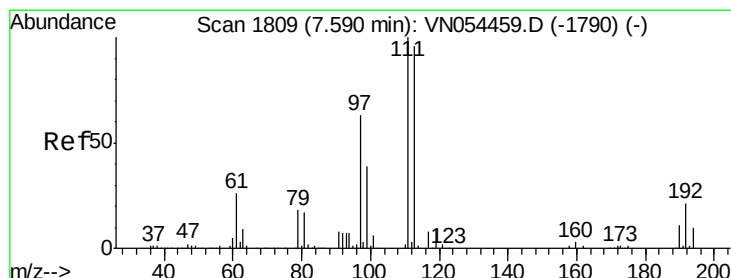
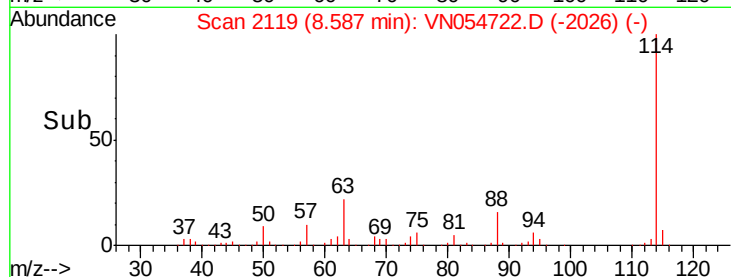
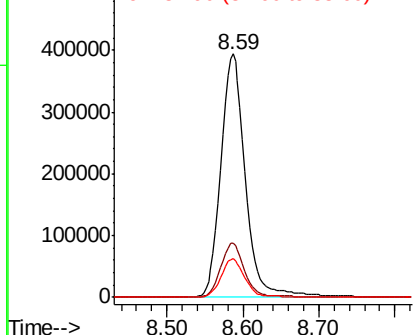
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054722.D
 Acq: 27 Mar 2019 15:16

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 886328
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 35.2
 88 15.7 0.0 30.2

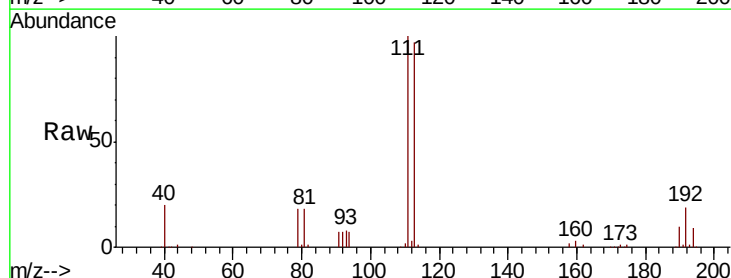


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

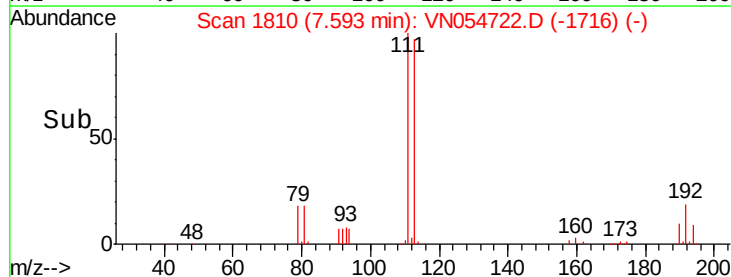
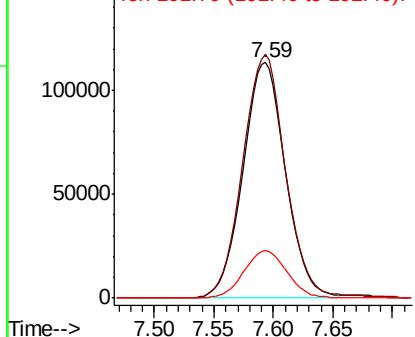


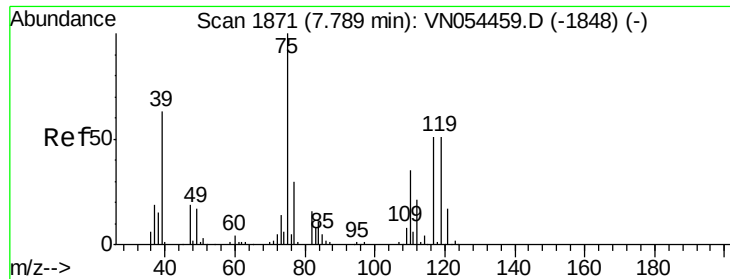
#35
 Dibromofluoromethane
 Concen: 49.196 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054722.D
 Acq: 27 Mar 2019 15:16

Tgt Ion:113 Resp: 280917
 Ion Ratio Lower Upper
 113 100
 111 104.4 82.2 123.4
 192 20.4 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

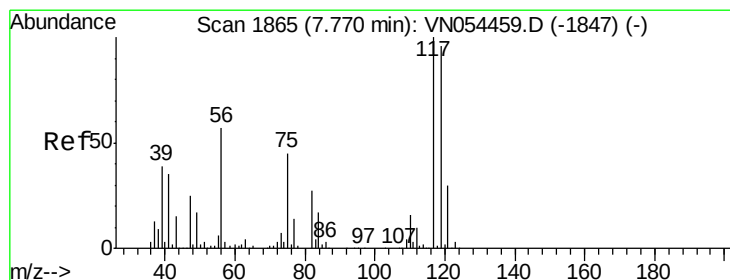
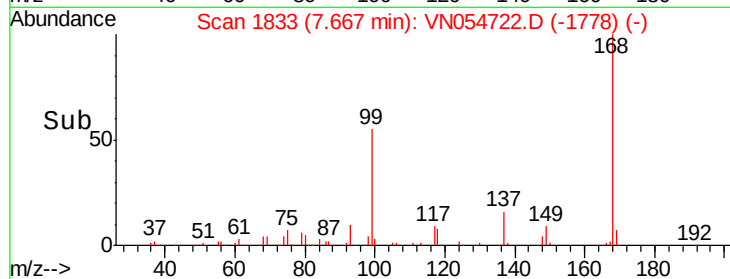
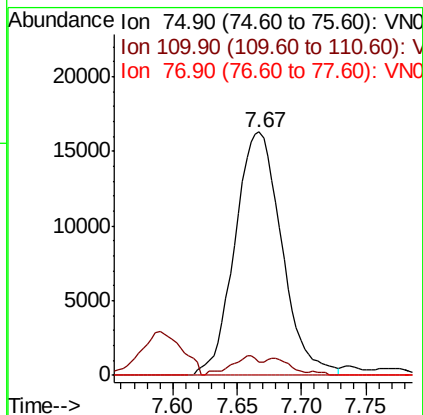
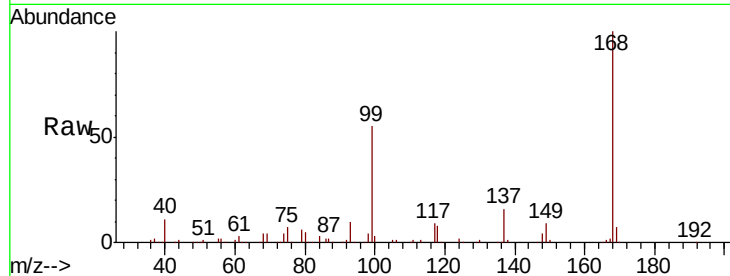




#36
 1,1-Dichloropropene
 Concen: 4.966 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054722.D
 Acq: 27 Mar 2019 15:16

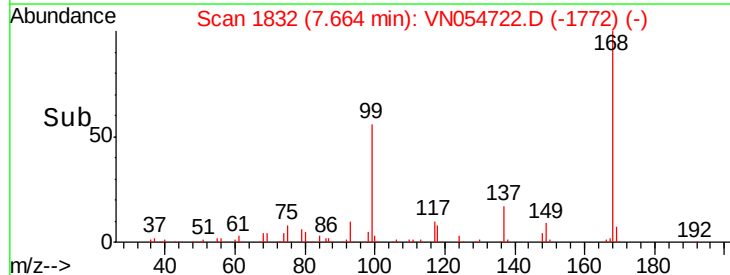
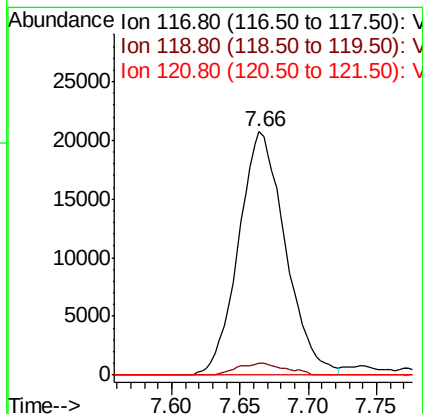
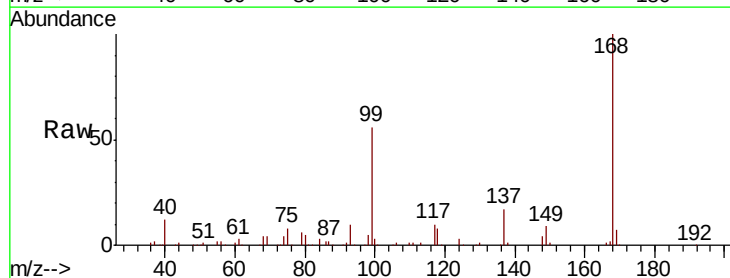
Instrument :
 MSVOA_N
 ClientSampleId :

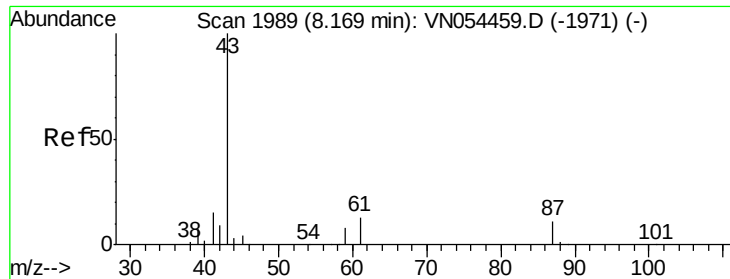
Tot Ion	Ratio	Lower	Upper
75	100		
110	5.0	19.1	57.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.132 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN054722.D
 Acq: 27 Mar 2019 15:16

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.8	76.3	114.5#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 1.474 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN054722.D

Acq: 27 Mar 2019 15:16

Instrument :

MSVOA_N

ClientSampleId :

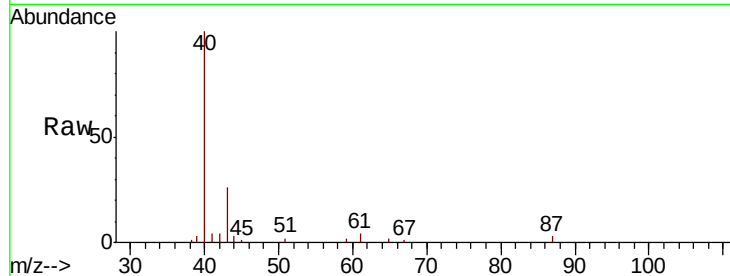
Tot Ion: 43 Resp: 14675

Ion Ratio Lower Upper

43 100

61 17.7 15.8 23.8

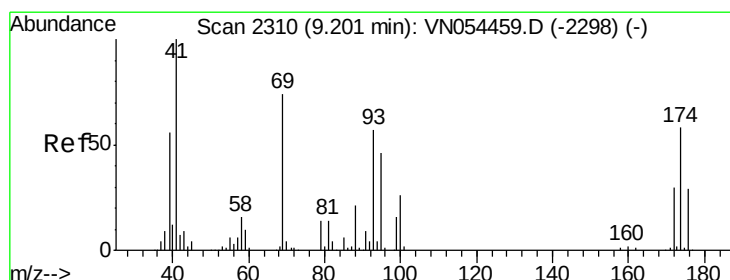
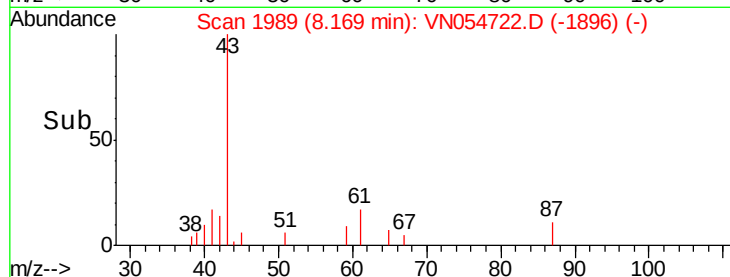
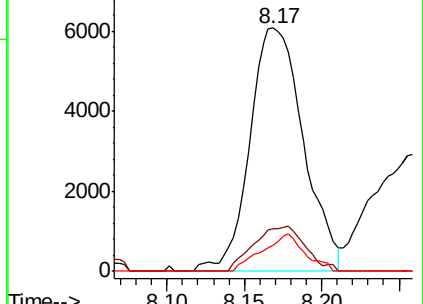
87 12.1 12.0 18.0



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



#48

Methyl methacrylate

Concen: 1.459 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. -0.02 min

Lab File: VN054722.D

Acq: 27 Mar 2019 15:16

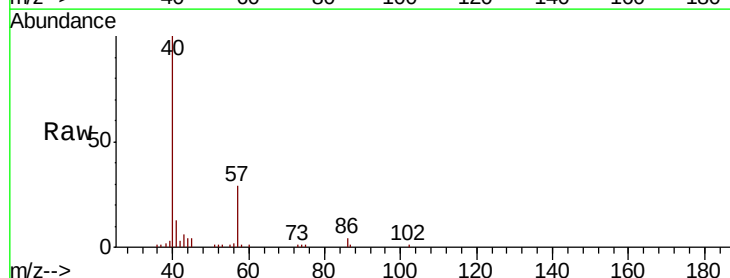
Tgt Ion: 41 Resp: 7883

Ion Ratio Lower Upper

41 100

69 0.0 72.6 108.8#

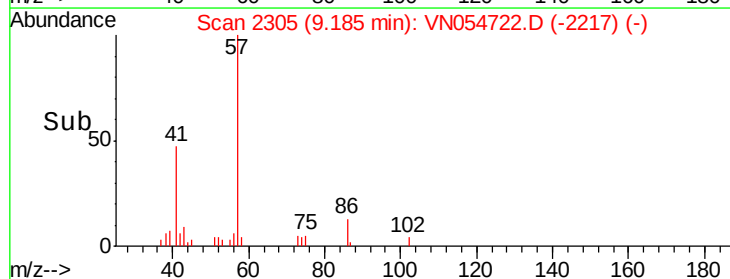
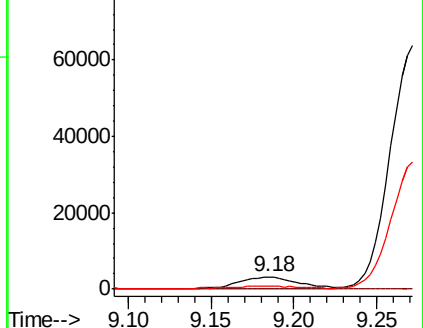
39 29.1 47.5 71.3#

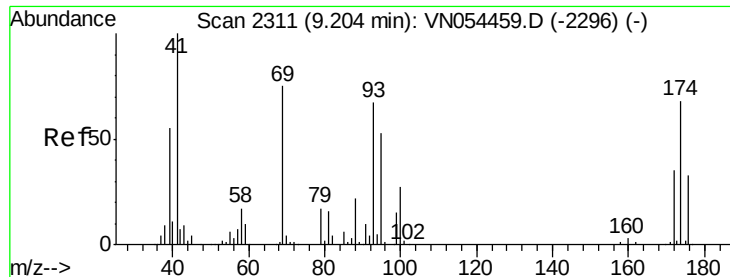


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 0.513 ug/l

RT: 8.97 min Scan# 2238

Delta R.T. -0.23 min

Lab File: VN054722.D

Acq: 27 Mar 2019 15:16

Instrument :
MSVOA_N
ClientSampleId :

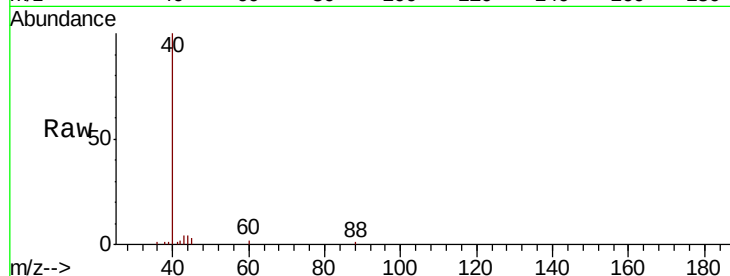
Tot Ion: 88 Resp: 31

Ion Ratio Lower Upper

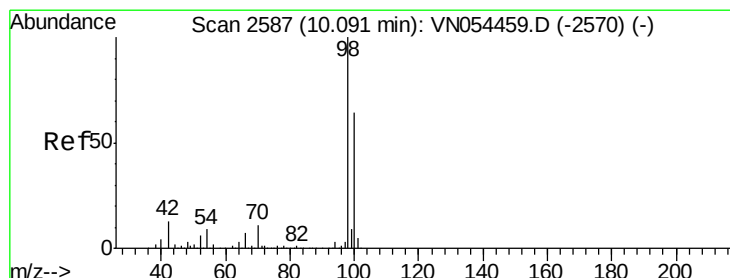
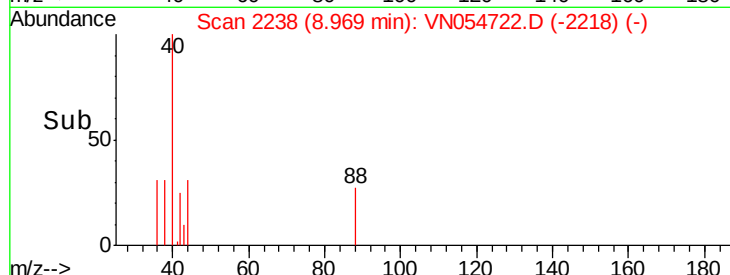
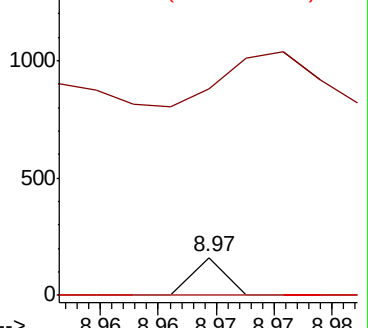
88 100

43 0.0 24.1 36.1#

58 0.0 50.8 76.2#



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: 49.478 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054722.D

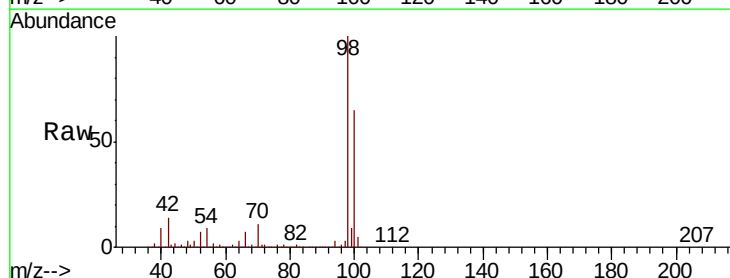
Acq: 27 Mar 2019 15:16

Tgt Ion: 98 Resp: 1062131

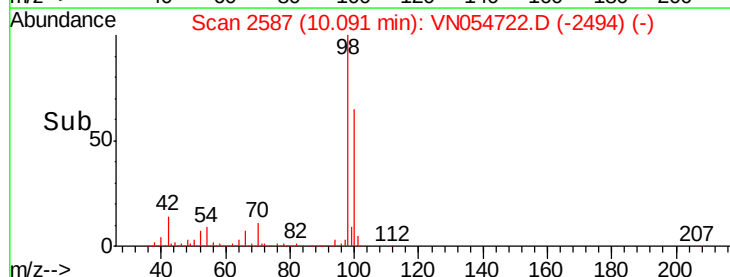
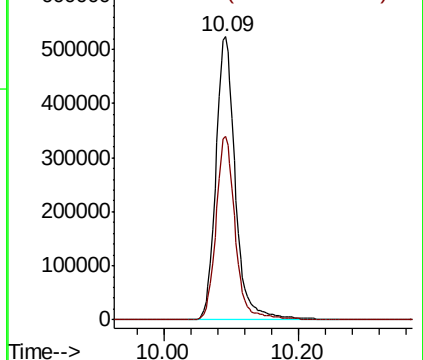
Ion Ratio Lower Upper

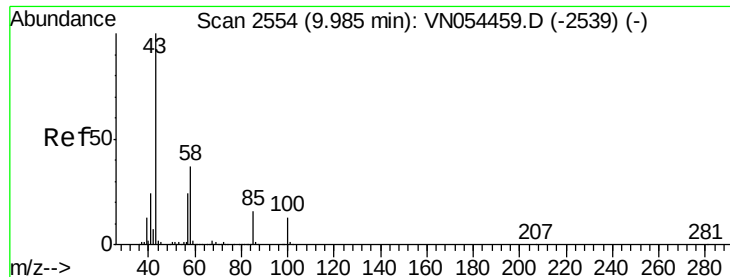
98 100

100 64.0 51.2 76.8



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: 1.523 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN054722.D

Acq: 27 Mar 2019 15:16

Instrument :

MSVOA_N

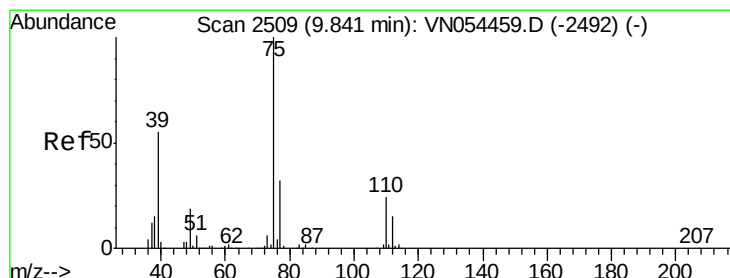
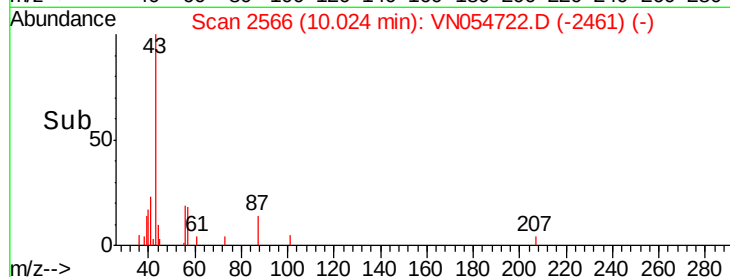
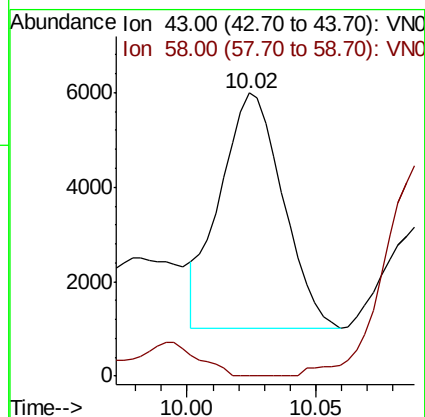
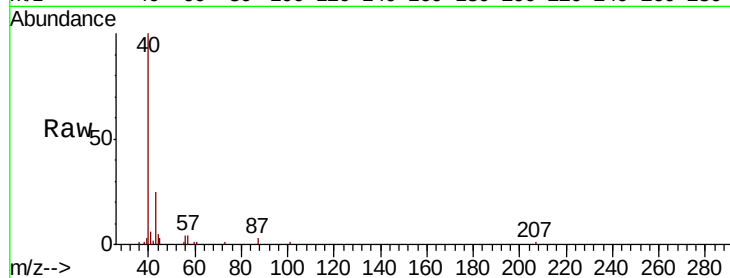
ClientSampleId :

Tot Ion: 43 Resp: 8401

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.6#



#54

cis-1,3-Dichloropropene

Concen: 5.670 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054722.D

Acq: 27 Mar 2019 15:16

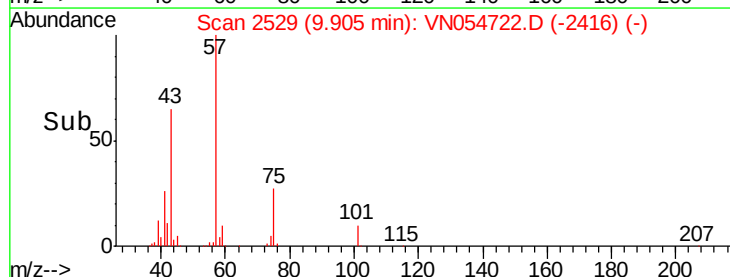
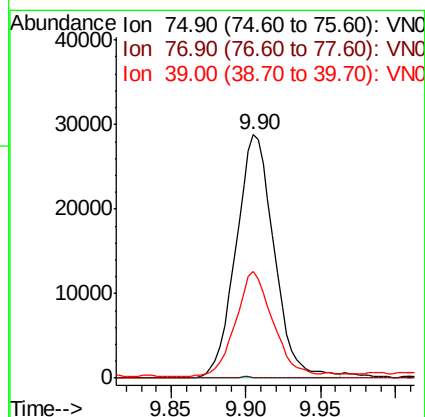
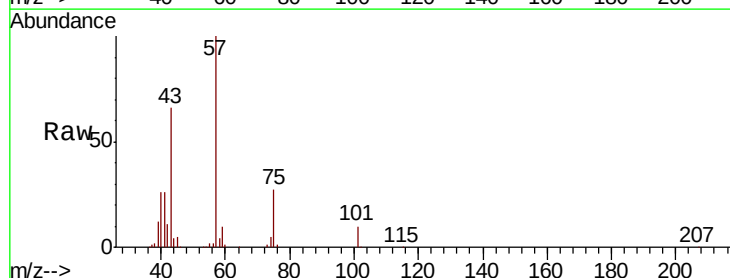
Tgt Ion: 75 Resp: 51220

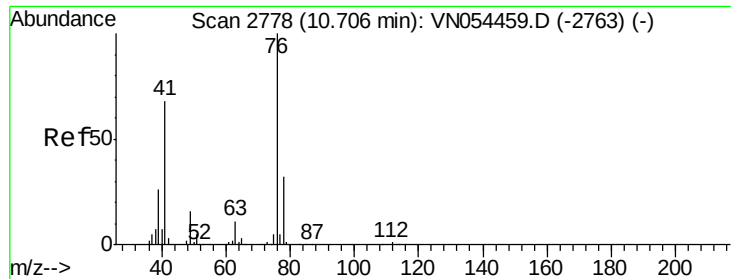
Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

39 42.9 37.2 55.8





#57

1,3-Dichloropropane

Concen: 1.018 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN054722.D

Acq: 27 Mar 2019 15:16

Instrument :

MSVOA_N

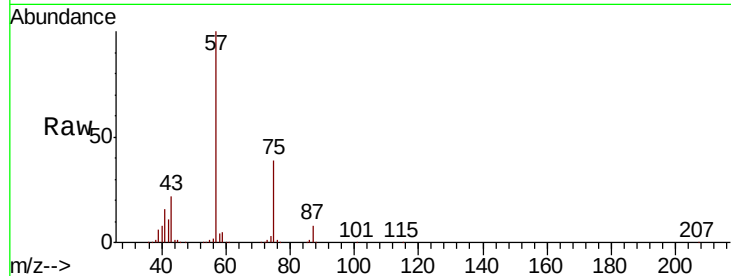
ClientSampled :

Tot Ion: 76 Resp: 9271

Ion Ratio Lower Upper

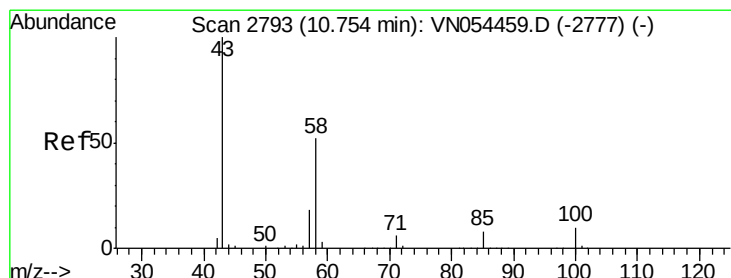
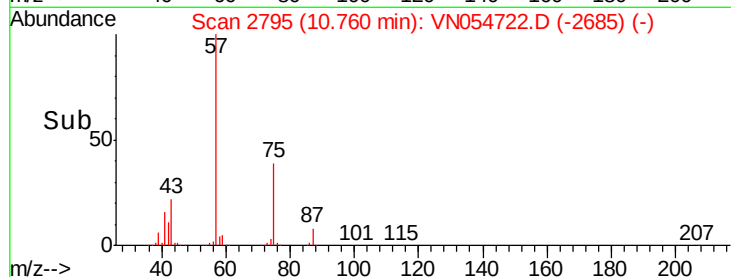
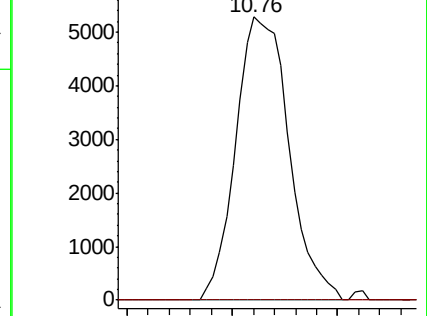
76 100

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: 42.472 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN054722.D

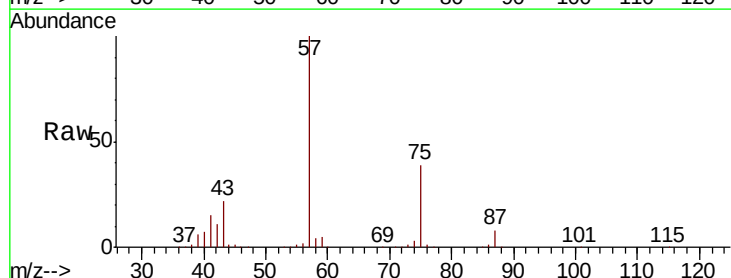
Acq: 27 Mar 2019 15:16

Tgt Ion: 43 Resp: 153048

Ion Ratio Lower Upper

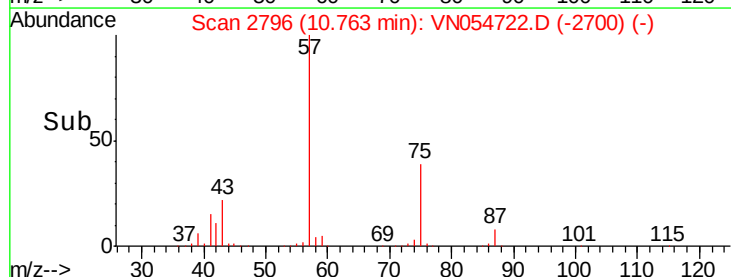
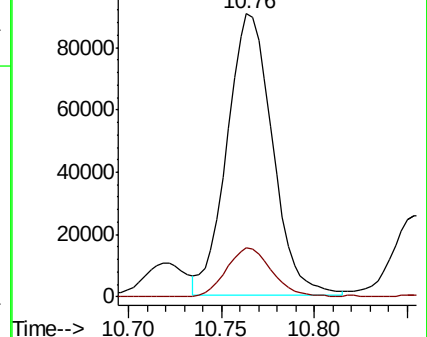
43 100

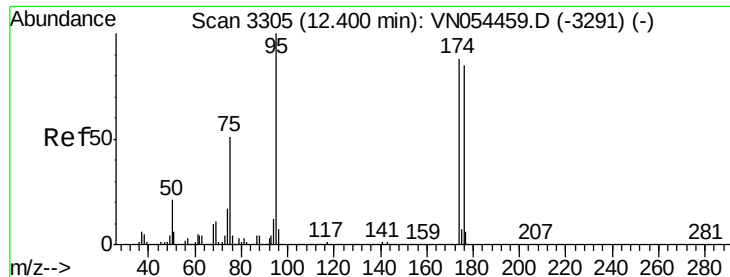
58 17.6 28.0 83.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 43.634 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054722.D

Acq: 27 Mar 2019 15:16

Instrument :

MSVOA_N

ClientSampleId :

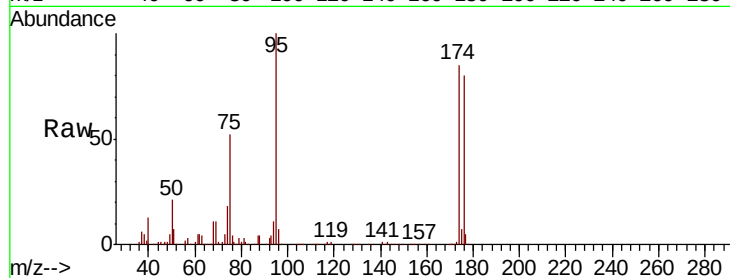
Tot Ion: 95 Resp: 318732

Ion Ratio Lower Upper

95 100

174 85.3 0.0 191.0

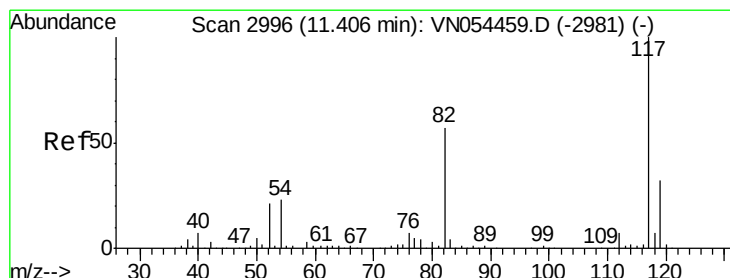
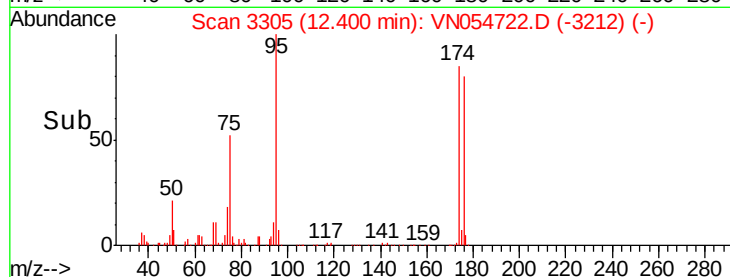
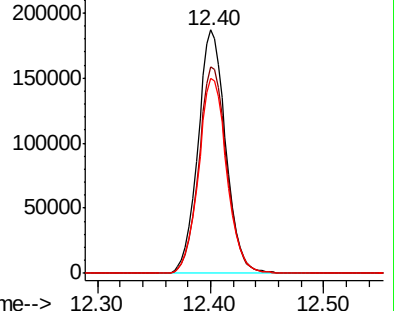
176 81.2 0.0 187.4



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: VN054722.D

Acq: 27 Mar 2019 15:16

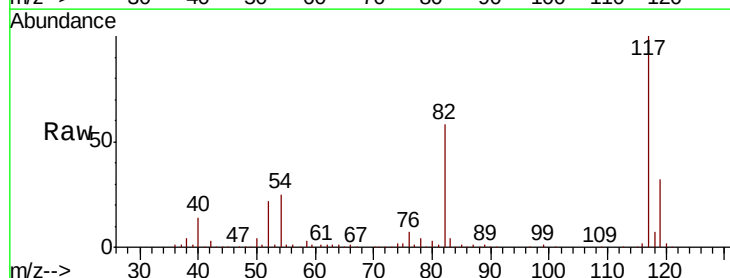
Tgt Ion: 117 Resp: 746223

Ion Ratio Lower Upper

117 100

82 57.7 40.0 60.0

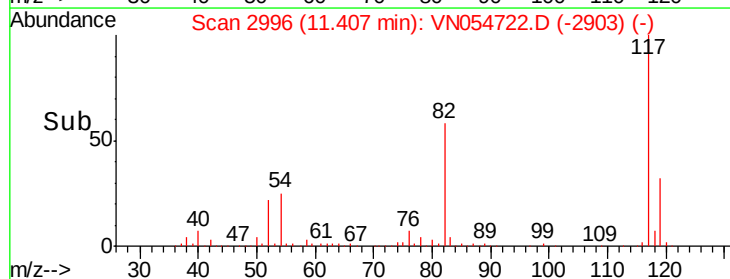
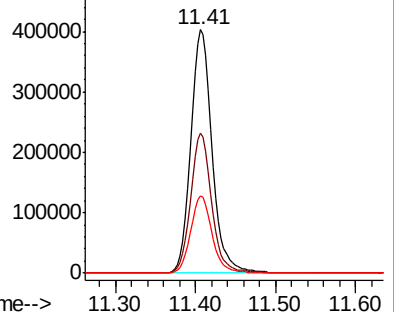
119 31.7 25.8 38.6

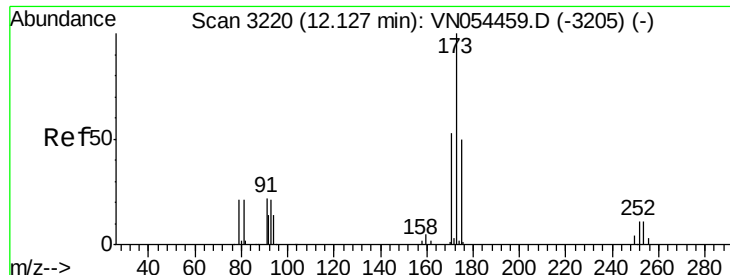


Abundance Ion 116.90 (116.60 to 117.60): VN054459.D (-2981) (-)

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: 2.378 ug/l

RT: 12.39 min Scan# 3302

Delta R.T. 0.26 min

Lab File: VN054722.D

Acq: 27 Mar 2019 15:16

Instrument :

MSVOA_N

ClientSampleId :

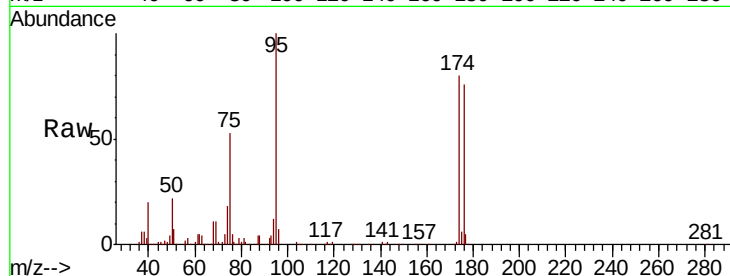
Tot Ion:173 Resp: 619

Ion Ratio Lower Upper

173 100

175 0.0 24.4 73.2#

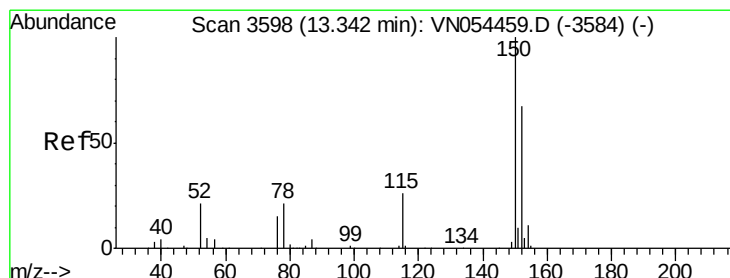
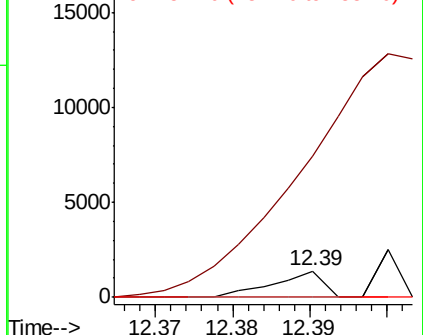
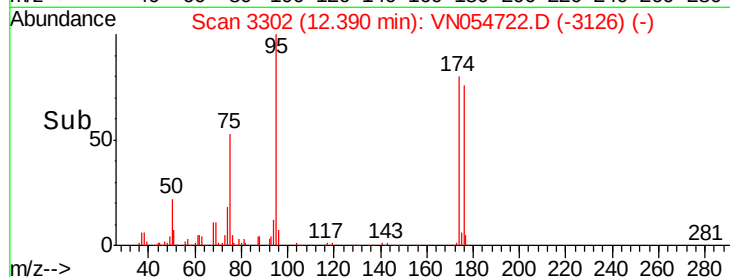
254 0.0 0.1 0.1#



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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054722.D

Acq: 27 Mar 2019 15:16

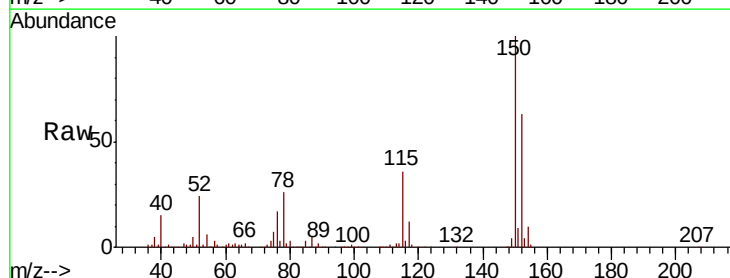
Tgt Ion:152 Resp: 264358

Ion Ratio Lower Upper

152 100

115 58.4 27.2 81.6

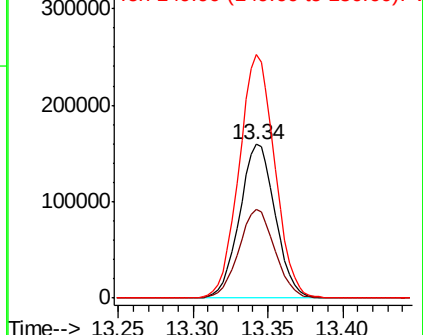
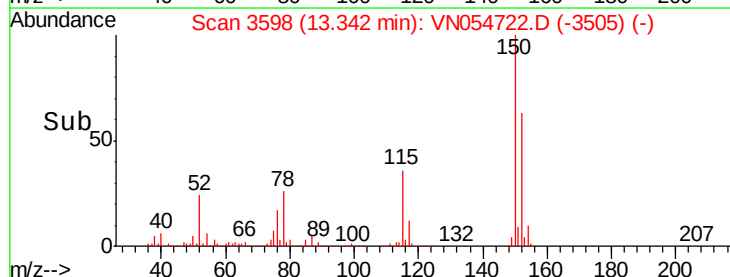
150 158.4 0.0 349.2

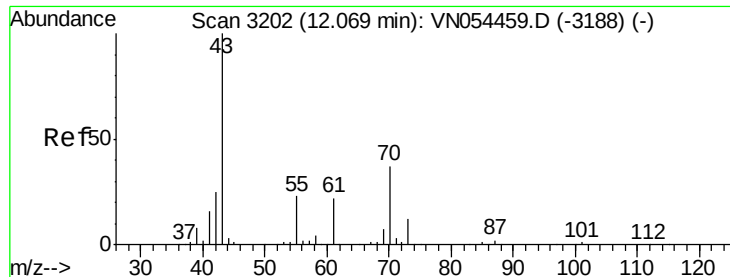


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.372 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN054722.D

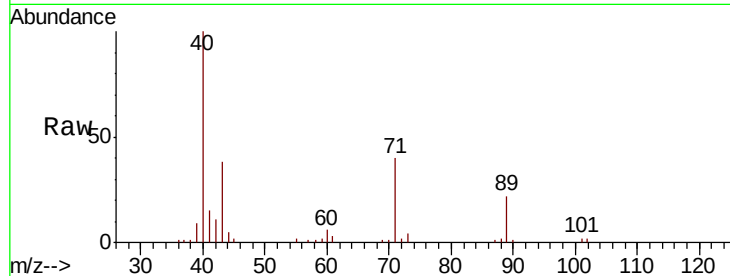
Acq: 27 Mar 2019 15:16

Instrument :

MSVOA_N

ClientSampled :

Tot Ion:	43	Resp:	14526
Ion	Ratio	Lower	Upper
43	100		
70	1.1	35.4	53.0#
55	4.3	19.8	29.6#
61	8.1	19.8	29.6#

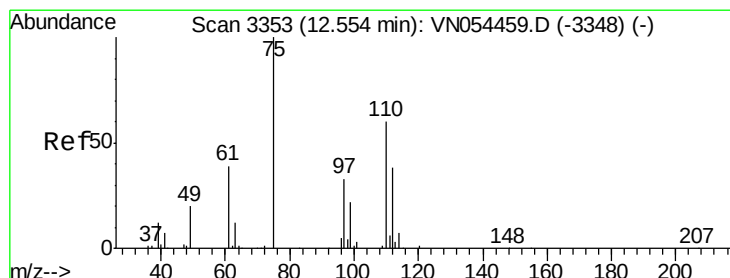
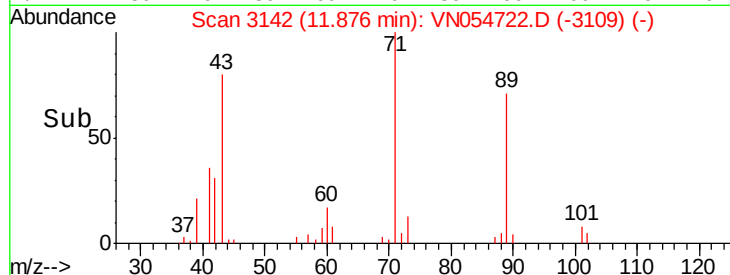
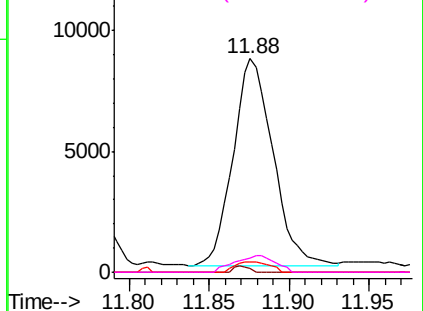


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 39.337 ug/l

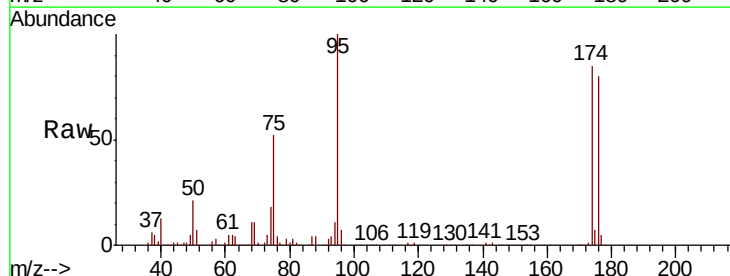
RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054722.D

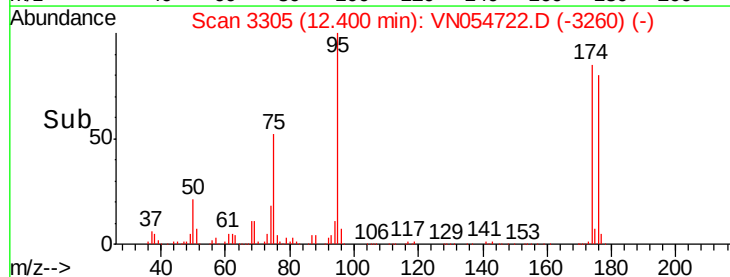
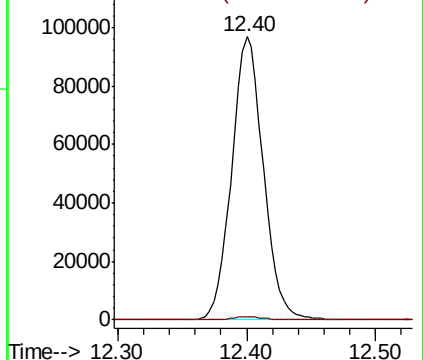
Acq: 27 Mar 2019 15:16

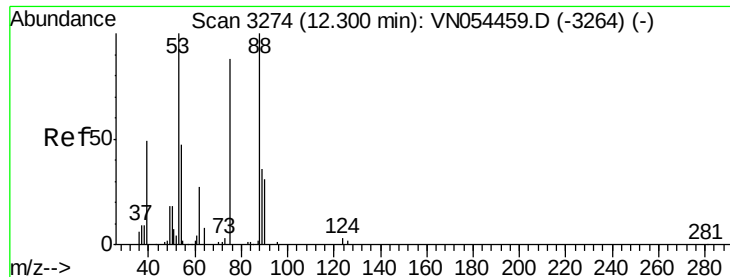
Tgt Ion:	75	Resp:	165016
Ion	Ratio	Lower	Upper
75	100		
77	1.1	0.0	0.0#



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: 130.177 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN054722.D
 Acq: 27 Mar 2019 15:16

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 165016
 Ion Ratio Lower Upper
 75 100
 53 0.0 76.2 114.2#
 89 0.0 39.2 58.8#

