

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032719\
 Data File : VN054723.D
 Acq On : 27 Mar 2019 15:43
 Operator : JC/SP
 Sample : K2086-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 28 04:37:18 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	541086	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	862692	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	742371	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	267126	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	351219	52.19	ug/l	0.00
Spiked Amount			Recovery	=	104.38%	
35) Dibromofluoromethane	7.59	113	273194	49.15	ug/l	0.00
Spiked Amount			Recovery	=	98.30%	
50) Toluene-d8	10.09	98	1036171	49.59	ug/l	0.00
Spiked Amount			Recovery	=	99.18%	
62) 4-Bromofluorobenzene	12.40	95	320789	45.12	ug/l	0.00
Spiked Amount			Recovery	=	90.24%	

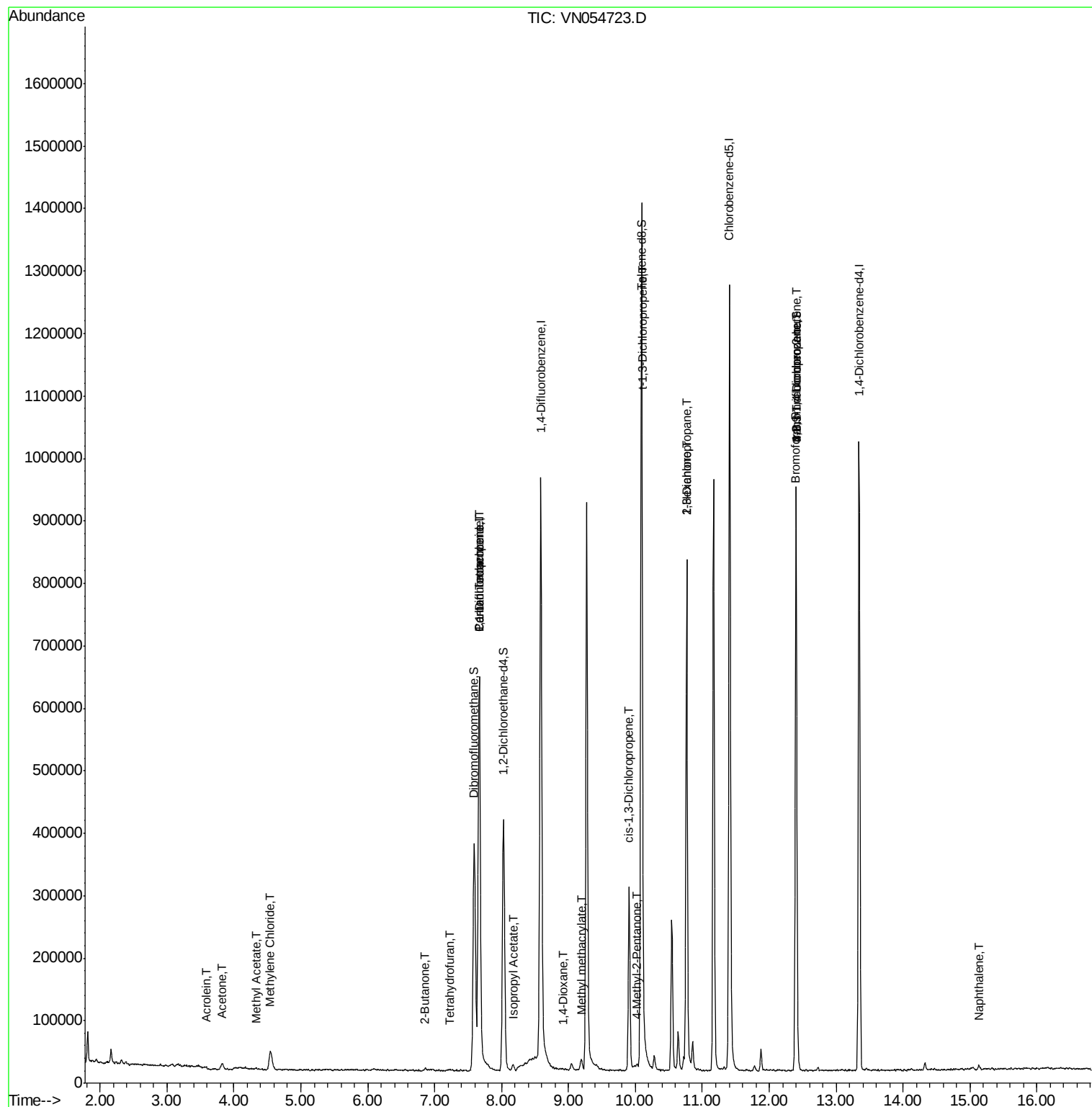
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.59	56	291	0.518	ug/l #	14
16) Acetone	3.83	43	17014	8.408	ug/l #	84
18) Methyl Acetate	4.34	43	2375	0.527	ug/l #	63
20) Methylene Chloride	4.54	84	20395	3.419	ug/l #	78
25) 2-Butanone	6.85	43	2084	0.804	ug/l	91
29) Tetrahydrofuran	7.23	42	433	0.257	ug/l #	72
31) Cyclohexane	7.67	56	10365	Below Cal	#	6
36) 1,1-Dichloropropene	7.67	75	41021	5.086	ug/l #	46
38) Carbon Tetrachloride	7.67	117	50306	6.418	ug/l #	15
43) Isopropyl Acetate	8.17	43	13232	1.366	ug/l #	94
48) Methyl methacrylate	9.19	41	6521	1.240	ug/l #	11
49) 1,4-Dioxane	8.93	88	30	0.510	ug/l #	27
51) 4-Methyl-2-Pentanone	10.02	43	6686	1.245	ug/l #	36
53) t-1,3-Dichloropropene	10.11	75	32	2.236	ug/l #	42
54) cis-1,3-Dichloropropene	9.91	75	50039	5.691	ug/l #	72
57) 1,3-Dichloropropane	10.77	76	7768	0.876	ug/l #	43
59) 2-Hexanone	10.76	43	138757	39.561	ug/l #	46
71) Bromoform	12.39	173	432	2.331	ug/l #	28
76) 1,2,3-Trichloropropane	12.40	75	166165	39.200	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	166165	129.736	ug/l #	11
95) Naphthalene	15.13	128	5743	0.603	ug/l #	95

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

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QLast Update : Fri Mar 22 02:09:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054723.D

Acq: 27 Mar 2019 15:43

Instrument :

MSVOA_N

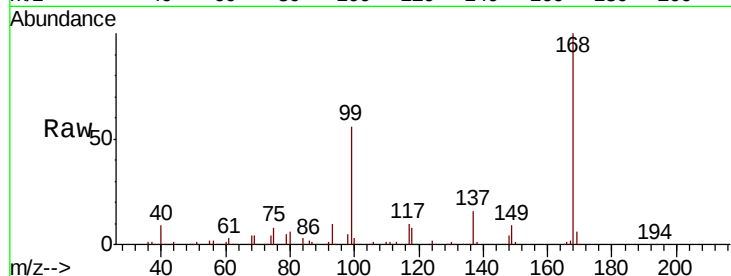
ClientSampleId :

Tot Ion:168 Resp: 541086

Ion Ratio Lower Upper

168 100

99 55.9 37.1 55.7#



Abundance Ion 167.90 (167.60 to 168.60): VN054723.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN054723.D (-1740) (-)

7.67

250000

200000

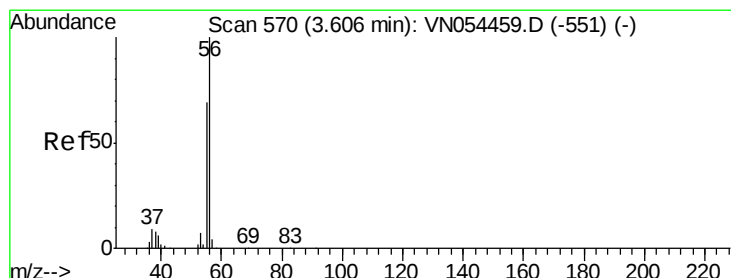
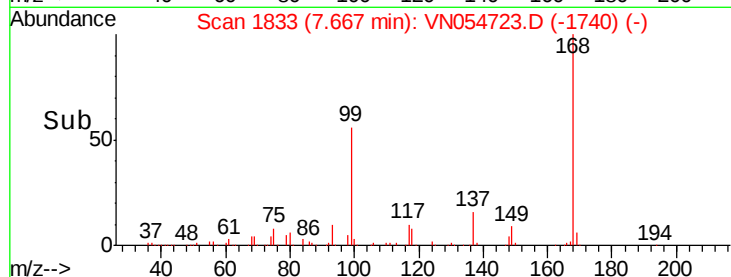
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 0.518 ug/l

RT: 3.59 min Scan# 565

Delta R.T. -0.02 min

Lab File: VN054723.D

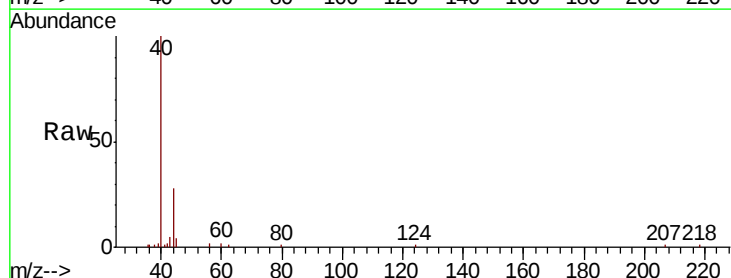
Acq: 27 Mar 2019 15:43

Tgt Ion: 56 Resp: 291

Ion Ratio Lower Upper

56 100

55 0.0 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN054723.D (-477) (-)

Ion 55.00 (54.70 to 55.70): VN054723.D (-477) (-)

3.59

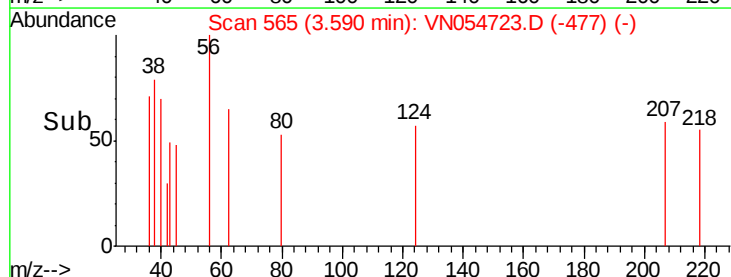
300

200

100

0

Time-->

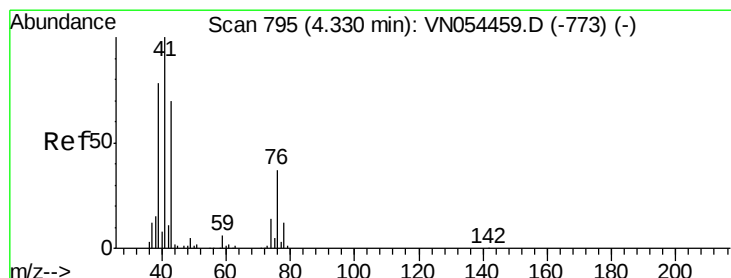
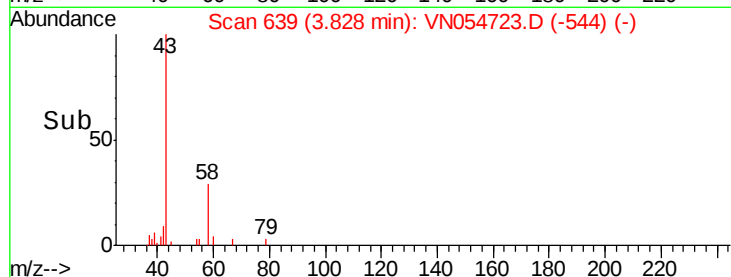
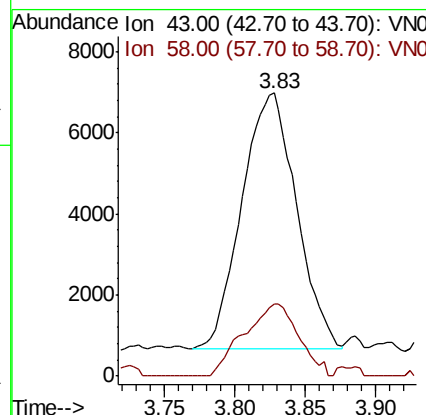
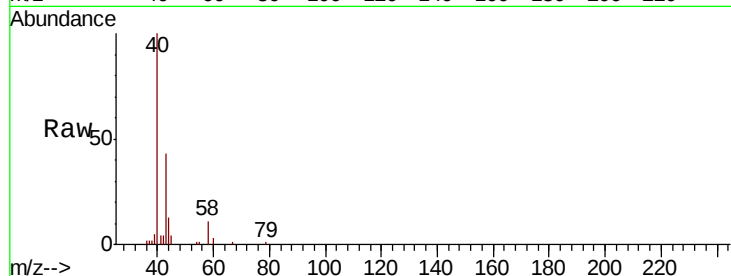




#16
Acetone
Concen: 8.408 ug/l
RT: 3.83 min Scan# 639
Delta R.T. 0.01 min
Lab File: VN054723.D
Acq: 27 Mar 2019 15:43

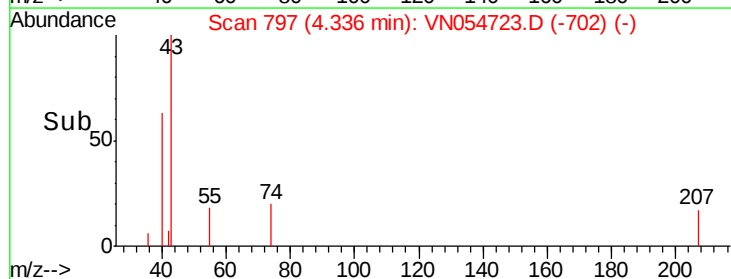
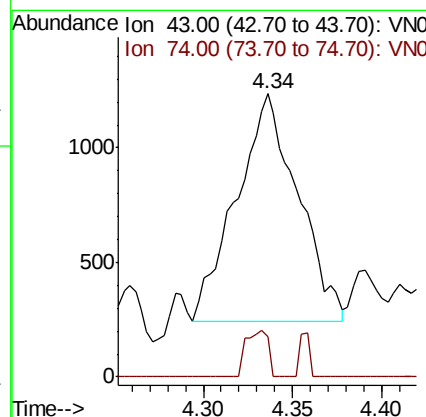
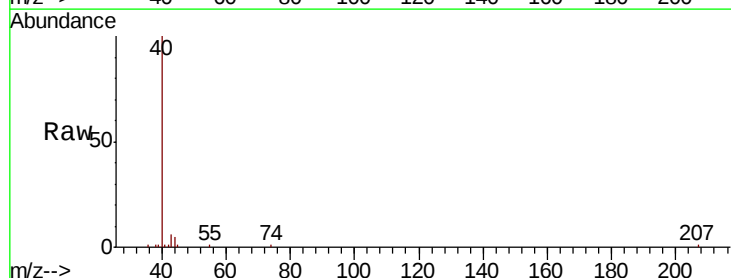
Instrument :
MSVOA_N
ClientSampleId :

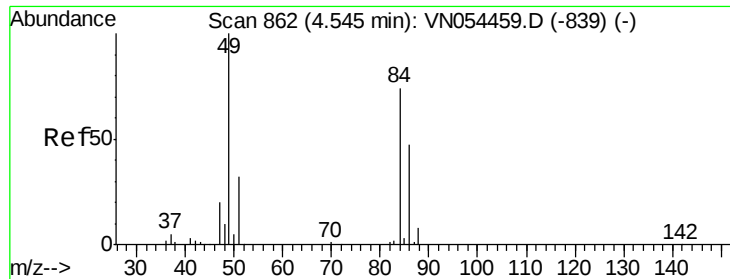
Tot Ion: 43 Resp: 17014
Ion Ratio Lower Upper
43 100
58 28.1 29.9 44.9#



#18
Methyl Acetate
Concen: 0.527 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN054723.D
Acq: 27 Mar 2019 15:43

Tgt Ion: 43 Resp: 2375
Ion Ratio Lower Upper
43 100
74 7.4 20.8 31.2#

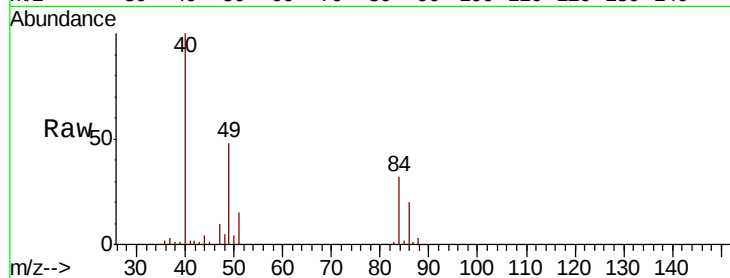




#20
Methvlene Chloride
Concen: 3.419 ug/l
RT: 4.54 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN054723.D
Acq: 27 Mar 2019 15:43

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	84	Resp	20395
Ion	Ratio	Lower	Upper
84	100		
49	148.8	89.7	134.5#
51	45.0	28.2	42.4#
86	61.8	50.8	76.2



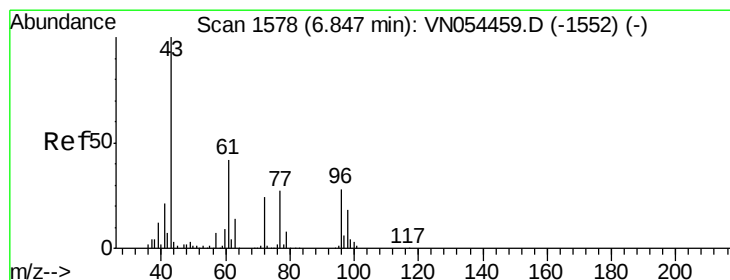
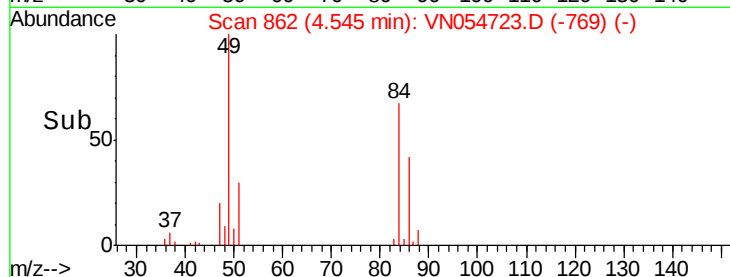
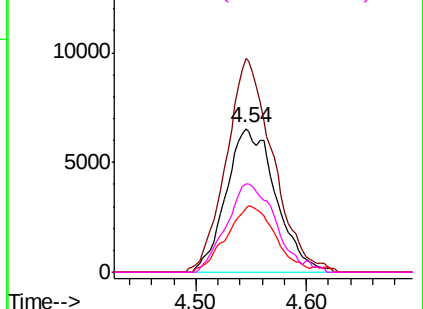
Abundance

Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

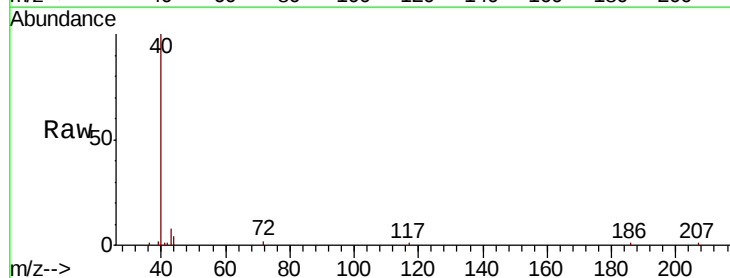
Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#25
2-Butanone
Concen: 0.804 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. -0.00 min
Lab File: VN054723.D
Acq: 27 Mar 2019 15:43

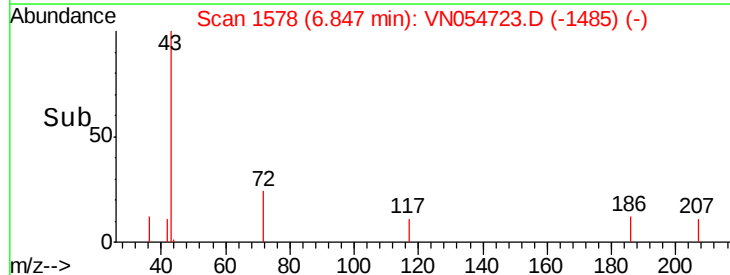
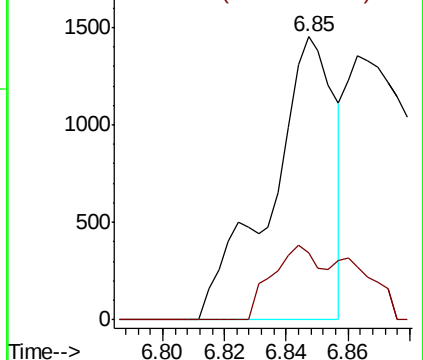
Tgt Ion	43	Resp	2084
Ion	Ratio	Lower	Upper
43	100		
72	23.8	23.0	34.6

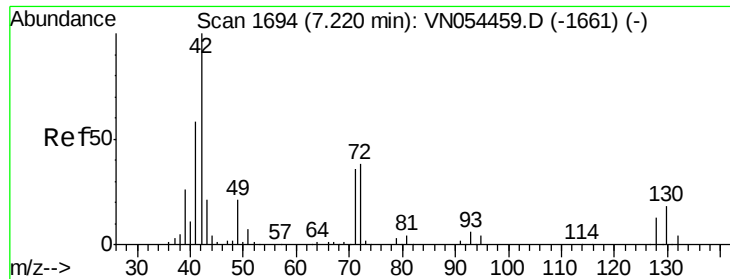


Abundance

Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO

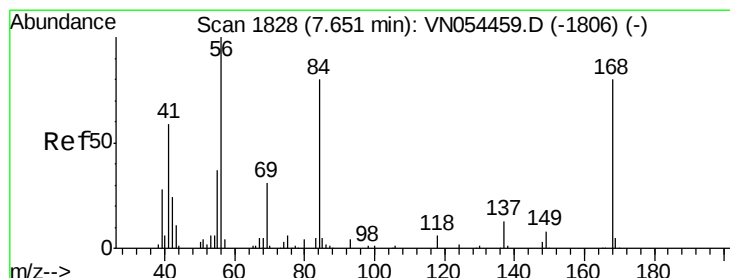
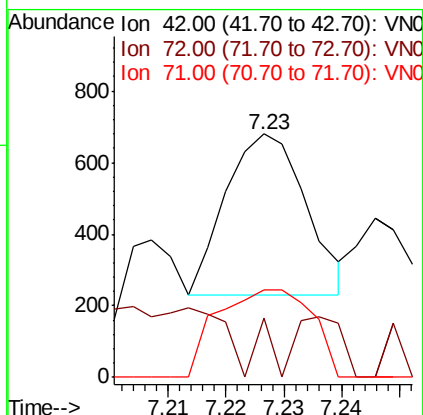
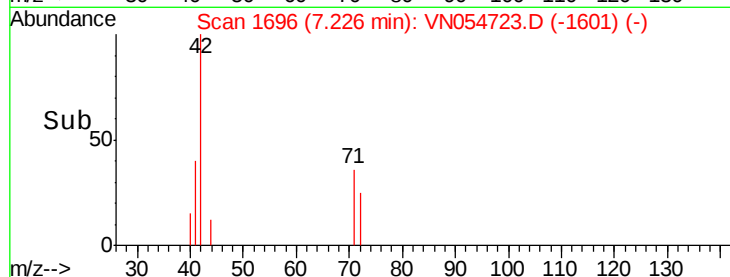
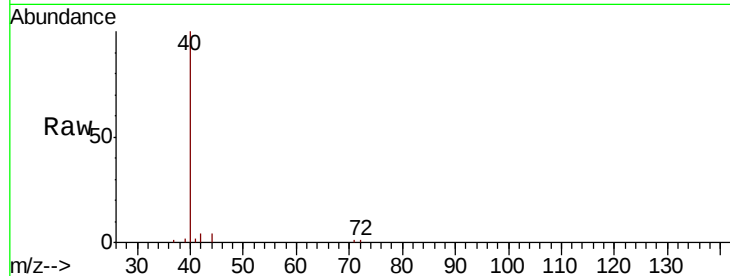




#29
Tetrahydrofuran
Concen: 0.257 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.01 min
Lab File: VN054723.D
Acq: 27 Mar 2019 15:43

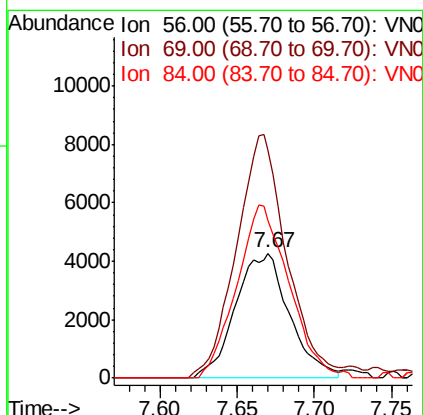
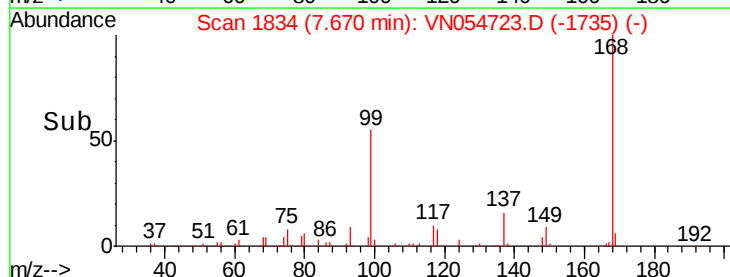
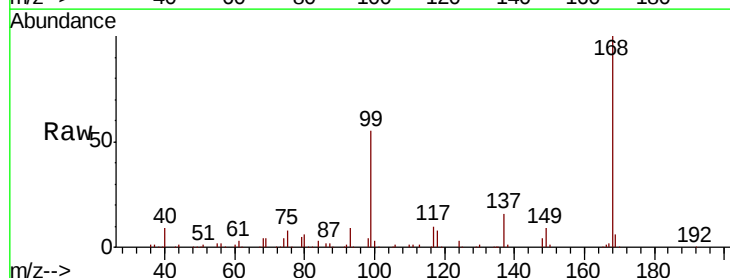
Instrument :
MSVOA_N
ClientSampled :

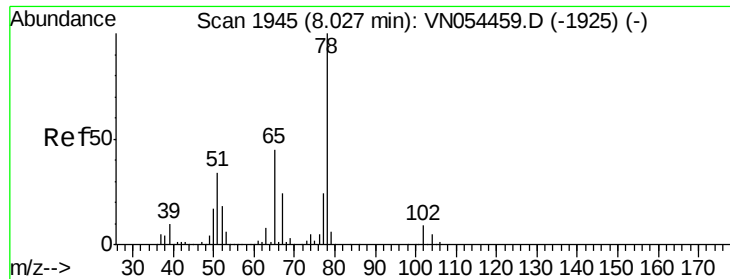
Tot Ion: 42 Resp: 433
Ion Ratio Lower Upper
42 100
72 28.9 37.8 56.6#
71 64.2 36.2 54.2#



#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1834
Delta R.T. 0.02 min
Lab File: VN054723.D
Acq: 27 Mar 2019 15:43

Tgt Ion: 56 Resp: 10365
Ion Ratio Lower Upper
56 100
69 182.4 27.8 41.6#
84 126.3 74.6 111.8#

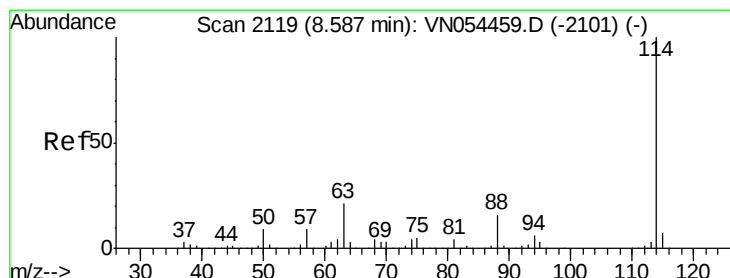
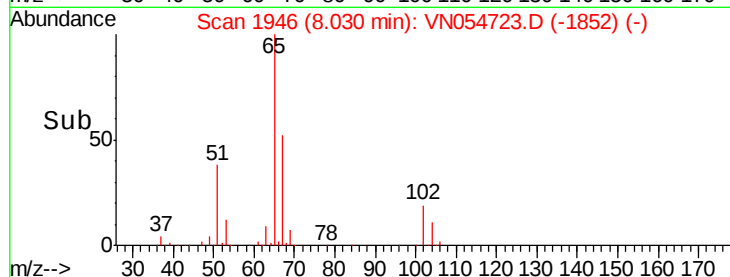
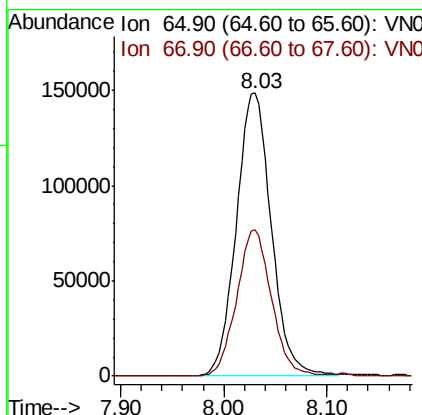
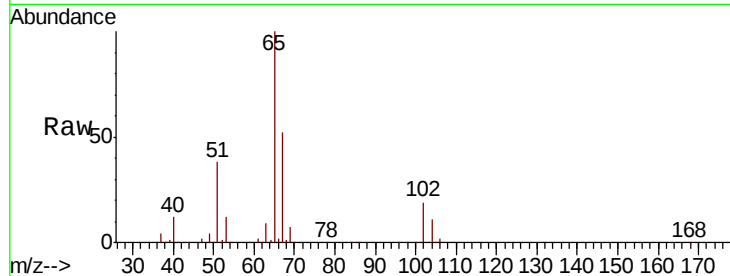




#33
 1,2-Dichloroethane-d4
 Concen: 52.185 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN054723.D
 Acq: 27 Mar 2019 15:43

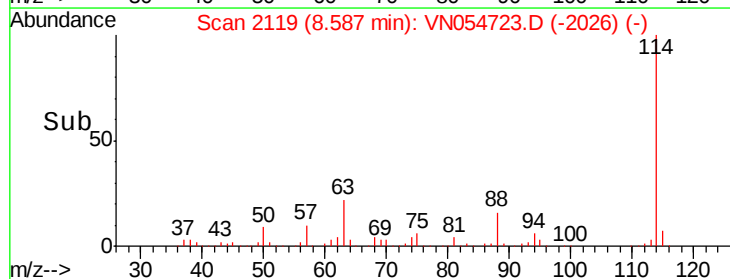
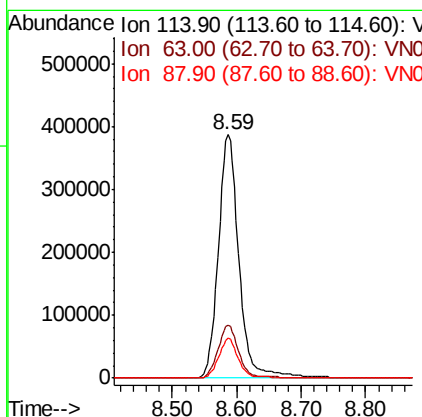
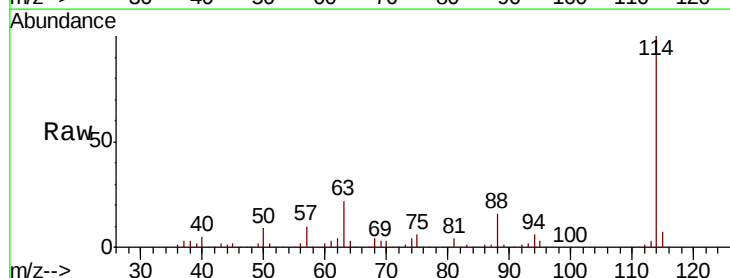
Instrument :
 MSVOA_N
 ClientSampleId :

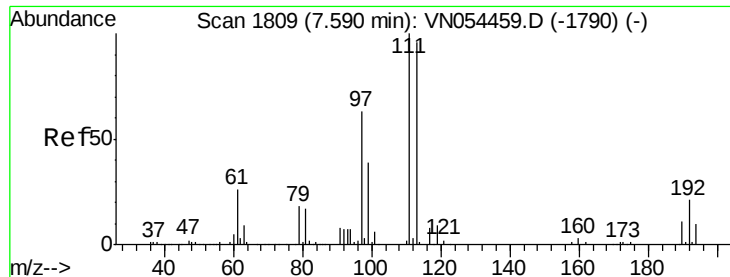
Tot Ion: 65 Resp: 351219
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054723.D
 Acq: 27 Mar 2019 15:43

Tgt Ion: 114 Resp: 862692
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 35.2
 88 16.3 0.0 30.2

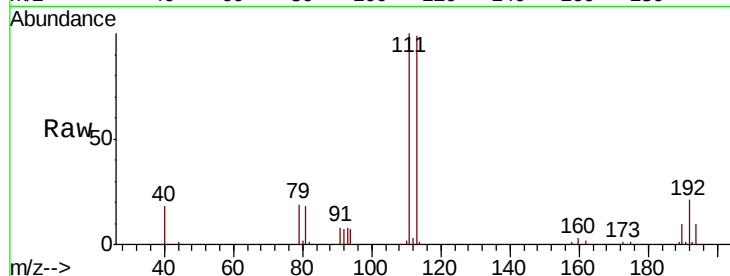




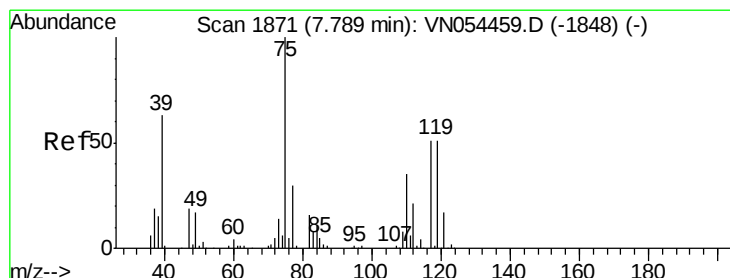
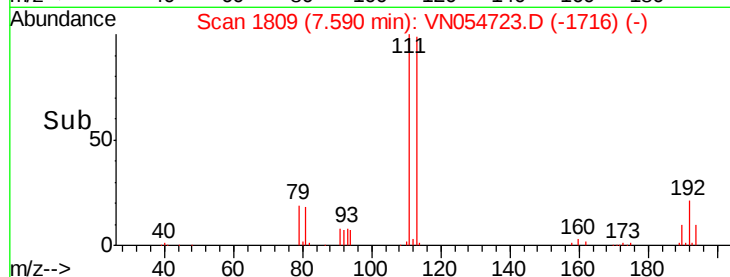
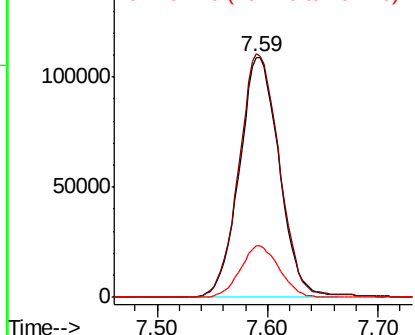
#35
 Dibromofluoromethane
 Concen: 49.154 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN054723.D
 Acq: 27 Mar 2019 15:43

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.2	123.4
192	21.1	19.2	28.8

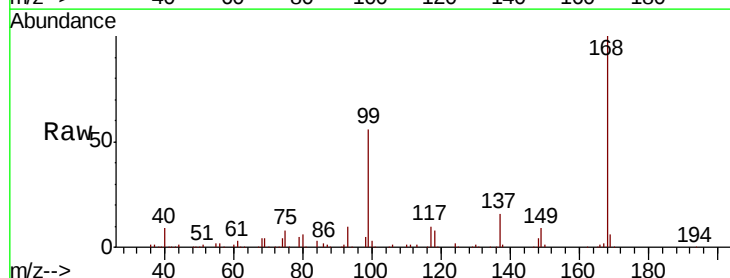


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

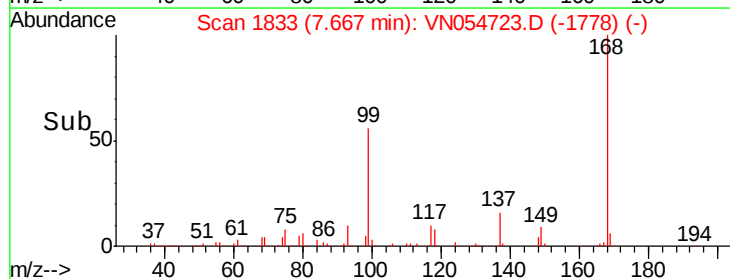
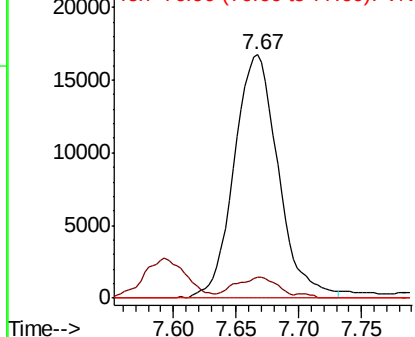


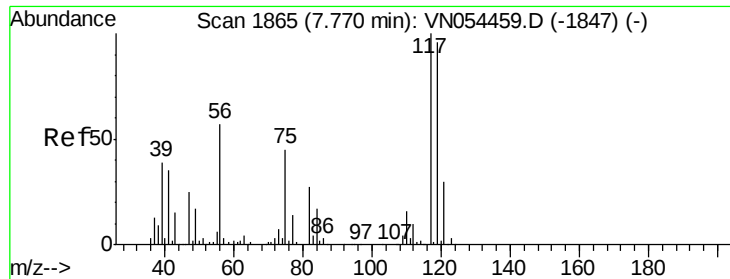
#36
 1,1-Dichloropropene
 Concen: 5.086 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054723.D
 Acq: 27 Mar 2019 15:43

Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.5	19.1	57.5#
77	0.0	25.0	37.4#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.418 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.10 min

Lab File: VN054723.D

Acq: 27 Mar 2019 15:43

Instrument :

MSVOA_N

ClientSampleId :

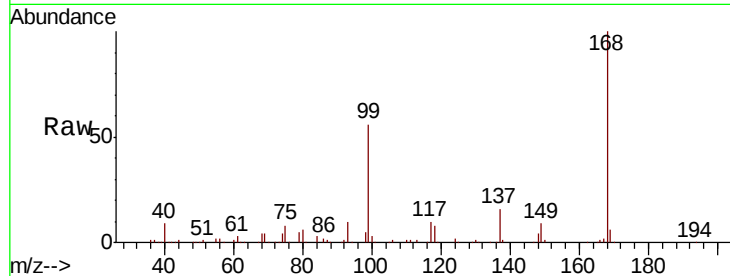
Tot Ion:117 Resp: 50306

Ion Ratio Lower Upper

117 100

119 4.2 76.3 114.5#

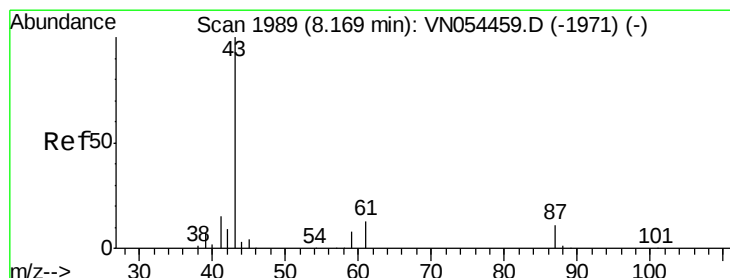
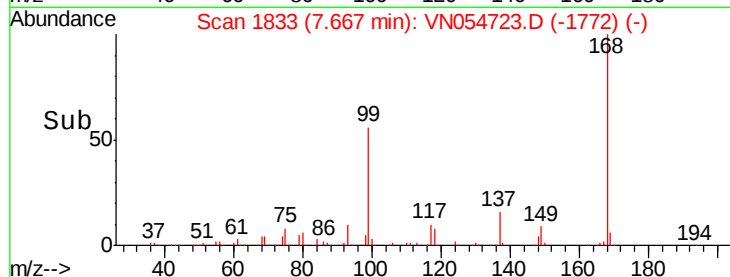
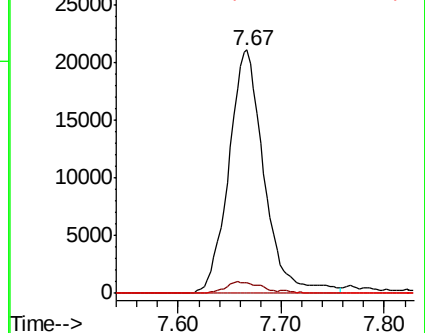
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 1.366 ug/l

RT: 8.17 min Scan# 1991

Delta R.T. 0.01 min

Lab File: VN054723.D

Acq: 27 Mar 2019 15:43

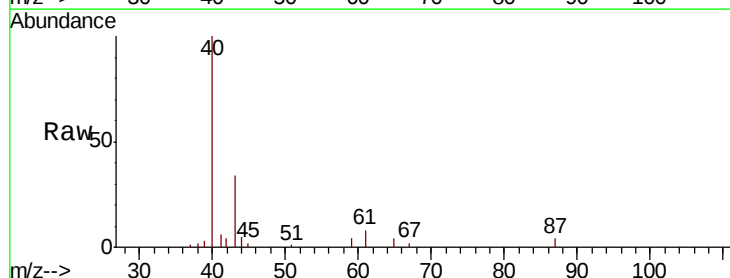
Tgt Ion: 43 Resp: 13232

Ion Ratio Lower Upper

43 100

61 19.6 15.8 23.8

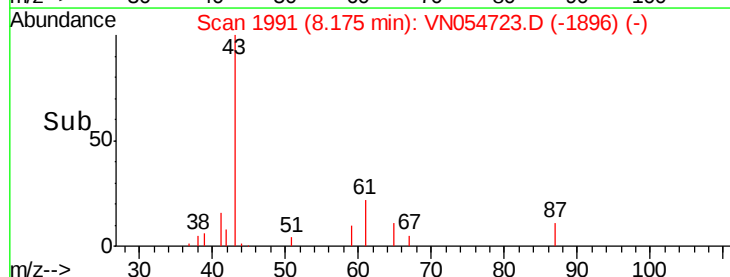
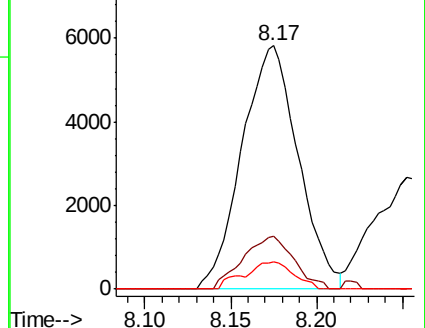
87 9.8 12.0 18.0#

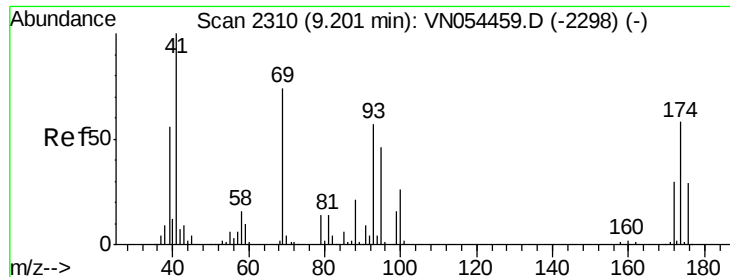


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

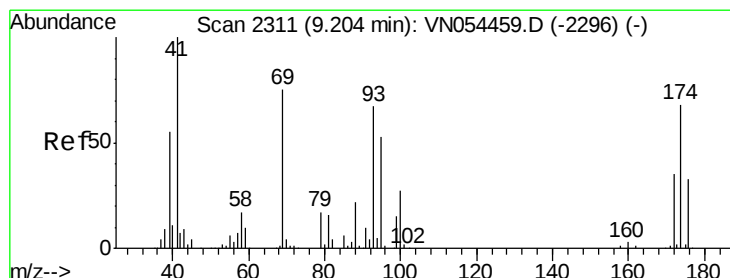
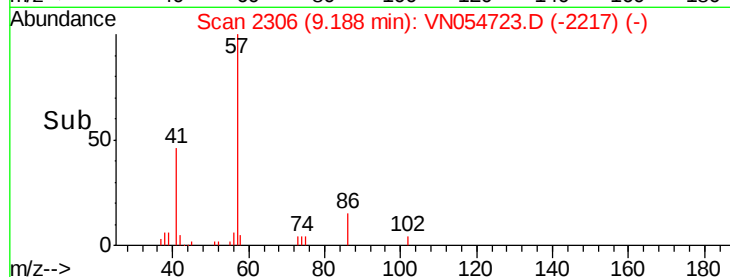
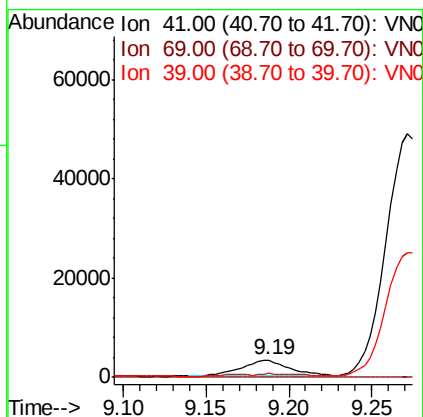
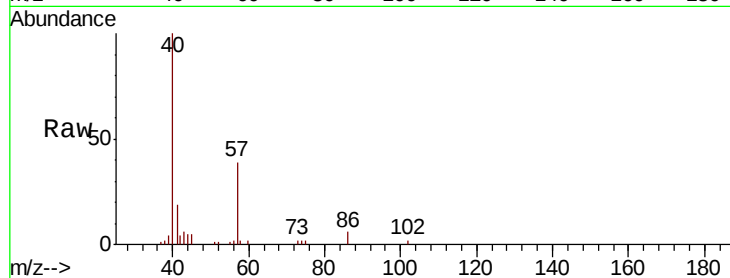




#48
Methvl methacrylate
Concen: 1.240 ug/l
RT: 9.19 min Scan# 2306
Delta R.T. -0.01 min
Lab File: VN054723.D
Acq: 27 Mar 2019 15:43

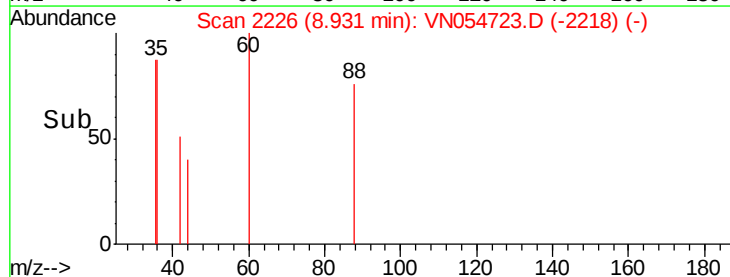
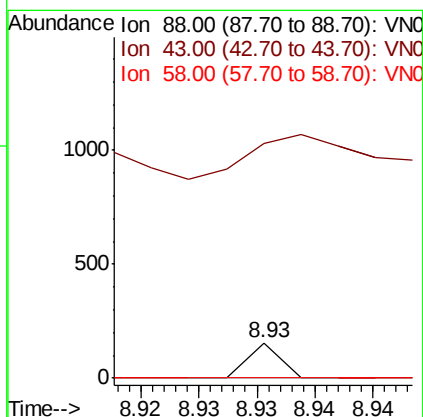
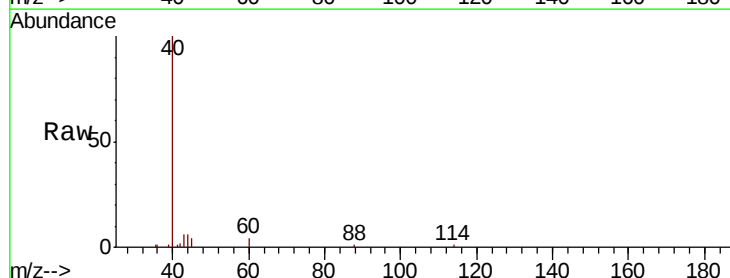
Instrument :
MSVOA_N
ClientSampled :

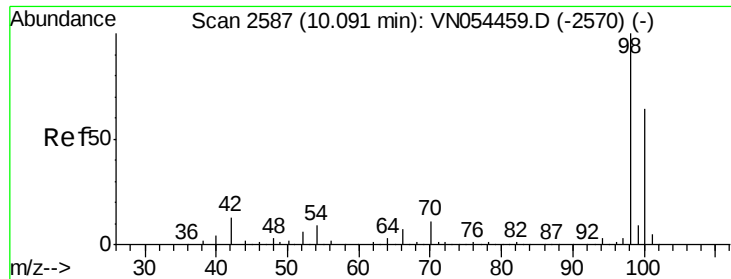
Tot Ion: 41 Resp: 6521
Ion Ratio Lower Upper
41 100
69 0.0 72.6 108.8#
39 0.0 47.5 71.3#



#49
1,4-Dioxane
Concen: 0.510 ug/l
RT: 8.93 min Scan# 2226
Delta R.T. -0.27 min
Lab File: VN054723.D
Acq: 27 Mar 2019 15:43

Tgt Ion: 88 Resp: 30
Ion Ratio Lower Upper
88 100
43 0.0 24.1 36.1#
58 0.0 50.8 76.2#





#50

Toluene-d8

Concen: 49.591 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054723.D

Acq: 27 Mar 2019 15:43

Instrument :

MSVOA_N

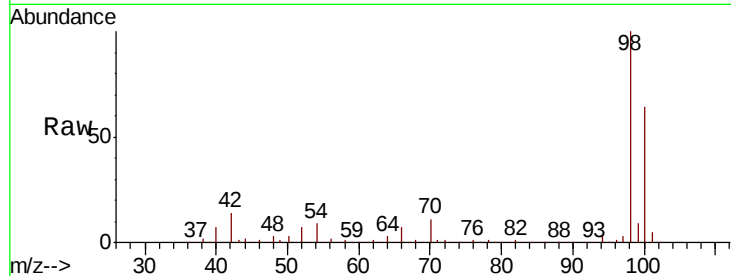
ClientSampled :

Tot Ion: 98 Resp: 1036171

Ion Ratio Lower Upper

98 100

100 64.2 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054459.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN054459.D (-2570) (-)

10.09

500000

400000

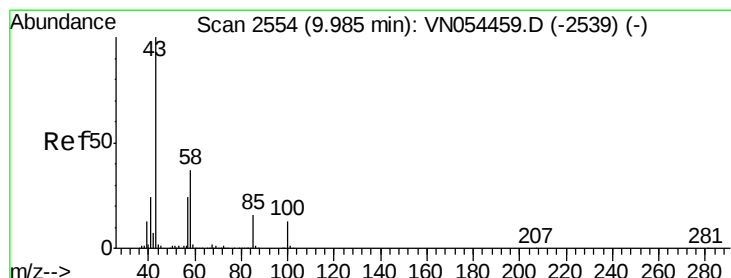
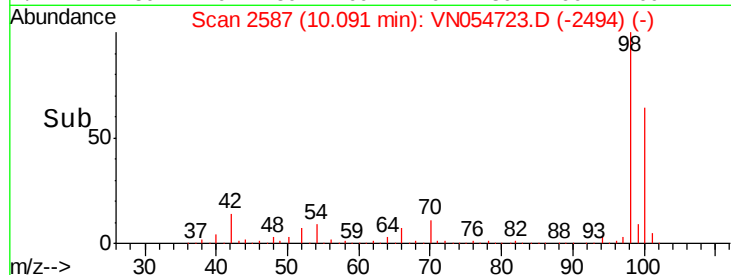
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.245 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN054723.D

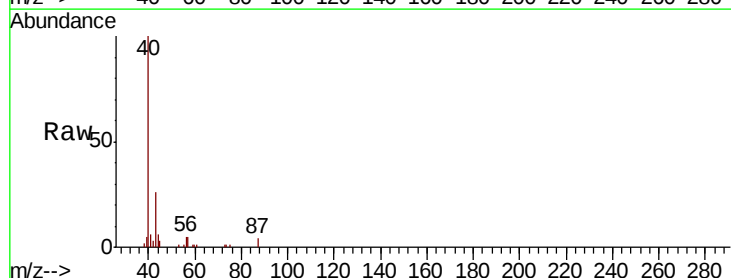
Acq: 27 Mar 2019 15:43

Tgt Ion: 43 Resp: 6686

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VN054459.D (-2539) (-)

Ion 58.00 (57.70 to 58.70): VN054459.D (-2539) (-)

10.02

5000

4000

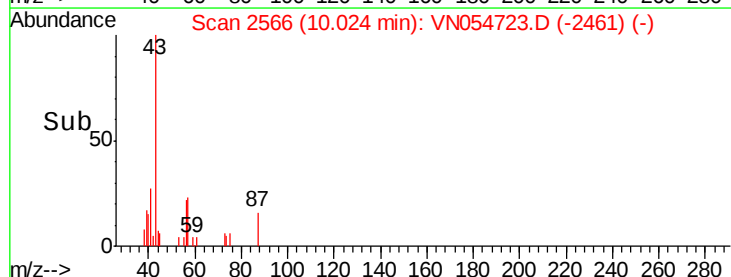
3000

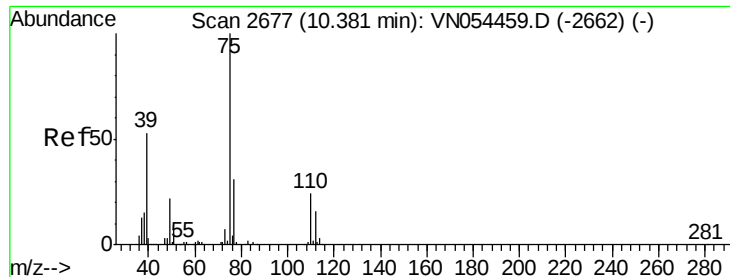
2000

1000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 2.236 ug/l

RT: 10.11 min Scan# 2593

Delta R.T. -0.27 min

Lab File: VN054723.D

Acq: 27 Mar 2019 15:43

Instrument :

MSVOA_N

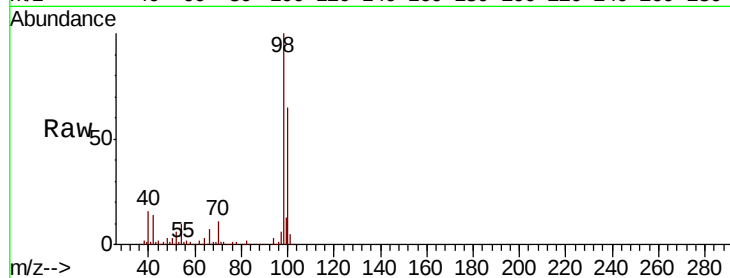
ClientSampled :

Tot Ion: 75 Resp: 32

Ion Ratio Lower Upper

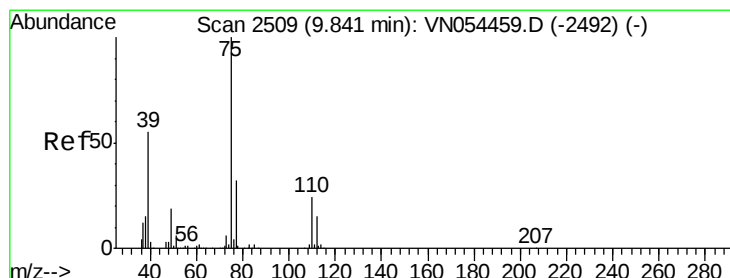
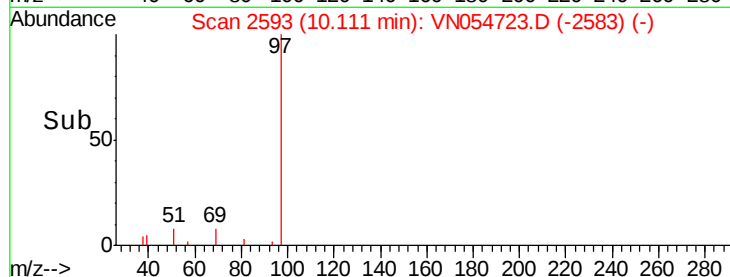
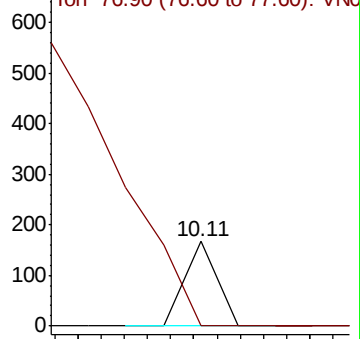
75 100

77 0.0 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.691 ug/l

RT: 9.91 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN054723.D

Acq: 27 Mar 2019 15:43

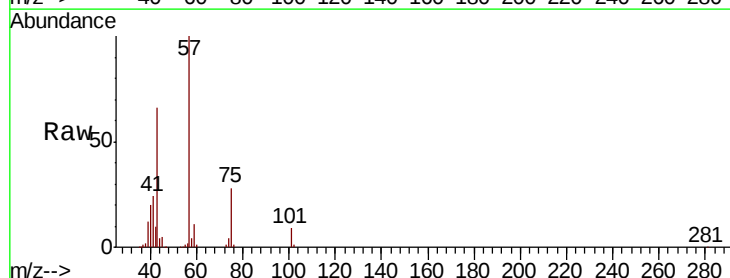
Tgt Ion: 75 Resp: 50039

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

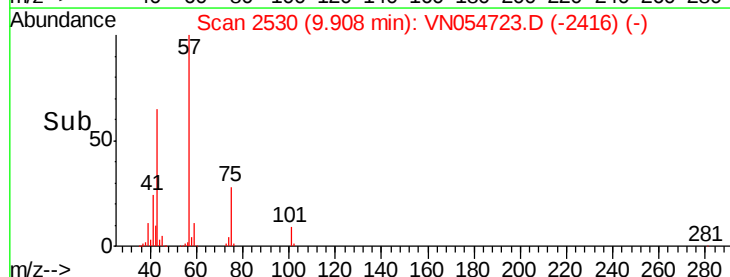
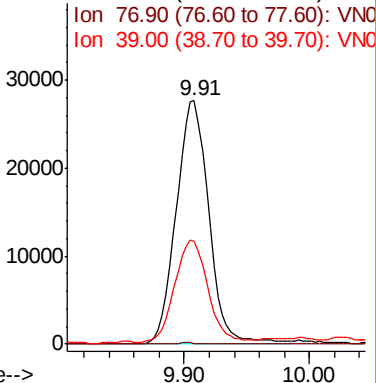
39 41.3 37.2 55.8

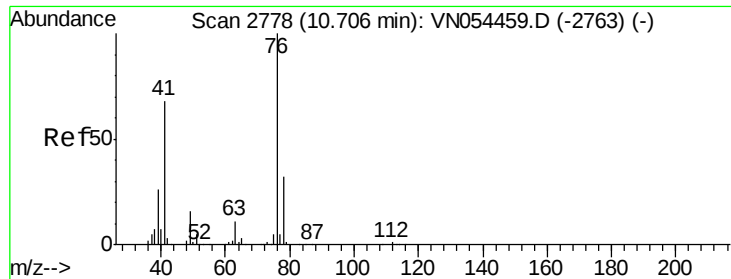


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 0.876 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN054723.D

Acq: 27 Mar 2019 15:43

Instrument :

MSVOA_N

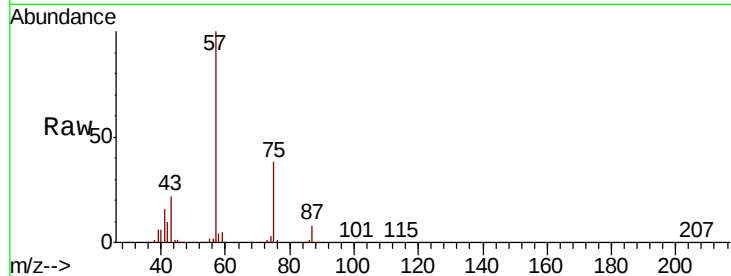
ClientSampled :

Tot Ion: 76 Resp: 7768

Ion Ratio Lower Upper

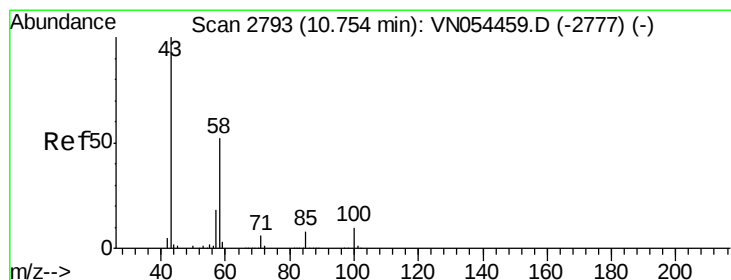
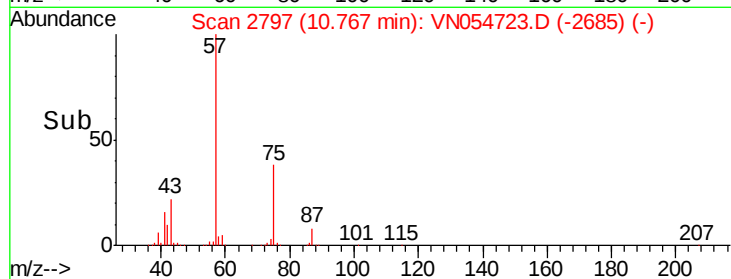
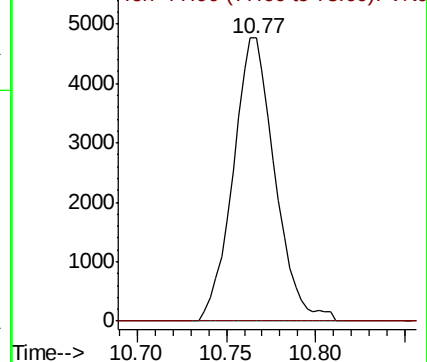
76 100

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: 39.561 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN054723.D

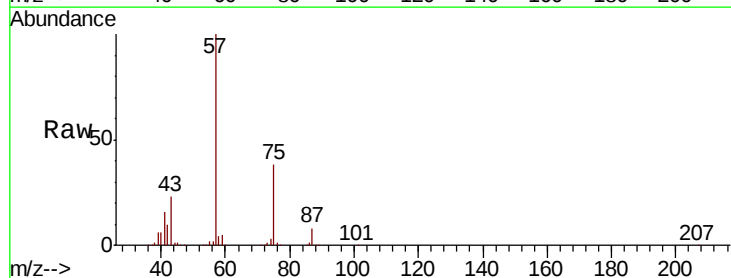
Acq: 27 Mar 2019 15:43

Tgt Ion: 43 Resp: 138757

Ion Ratio Lower Upper

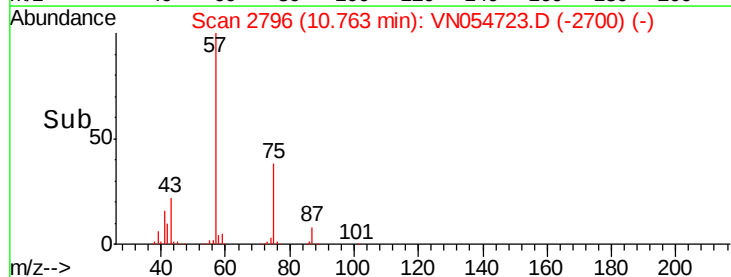
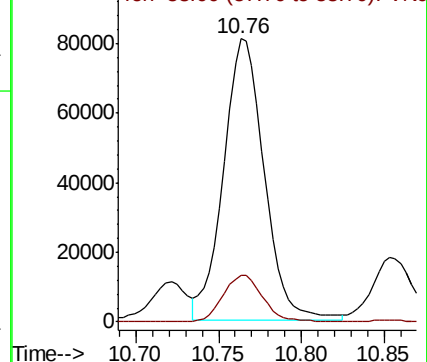
43 100

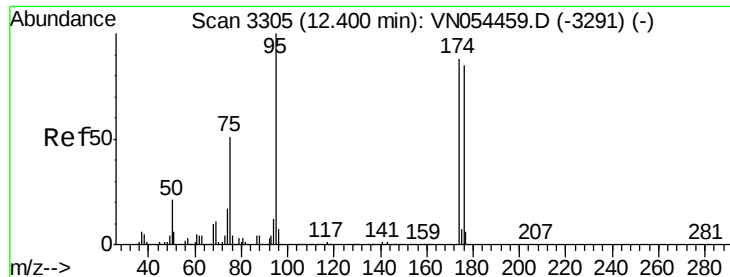
58 16.3 28.0 83.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 45.118 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054723.D

Acq: 27 Mar 2019 15:43

Instrument :

MSVOA_N

ClientSampleId :

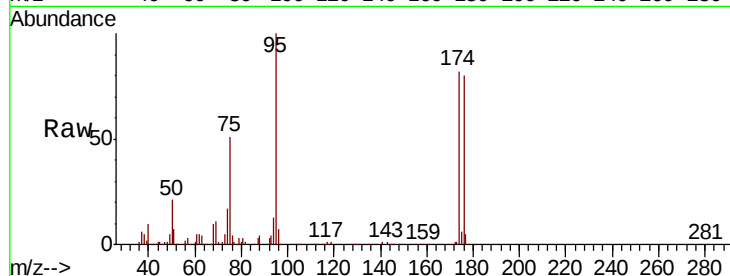
Tot Ion: 95 Resp: 320789

Ion Ratio Lower Upper

95 100

174 84.9 0.0 191.0

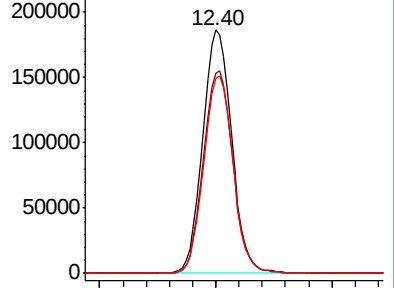
176 82.0 0.0 187.4



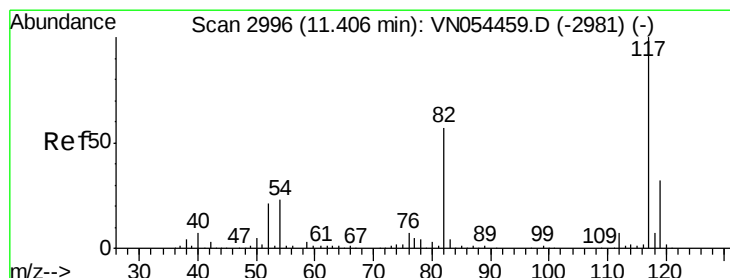
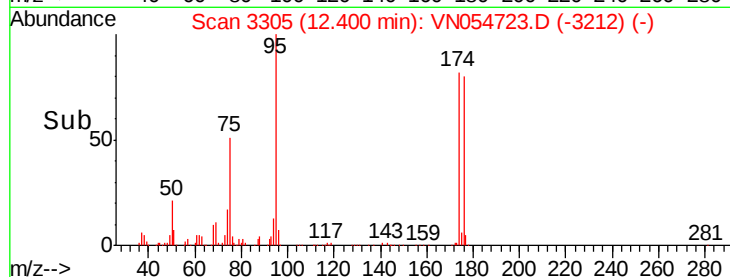
Abundance Ion 94.90 (94.60 to 95.60): VN054723.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN054723.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN054723.D (-2903) (-)



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN054723.D

Acq: 27 Mar 2019 15:43

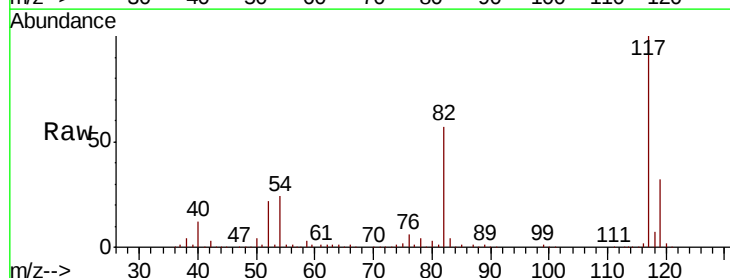
Tgt Ion: 117 Resp: 742371

Ion Ratio Lower Upper

117 100

82 56.8 40.0 60.0

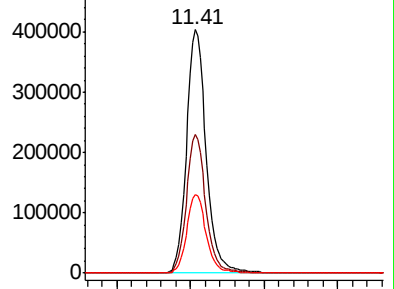
119 32.4 25.8 38.6



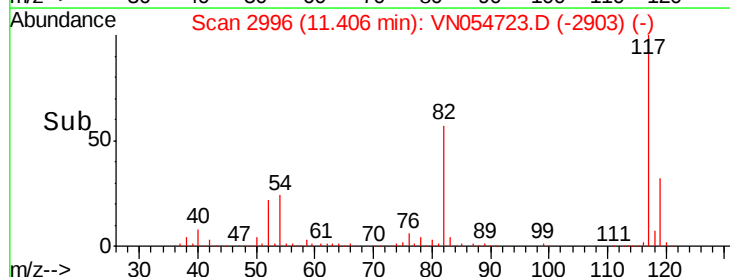
Abundance Ion 116.90 (116.60 to 117.60): VN054723.D (-2903) (-)

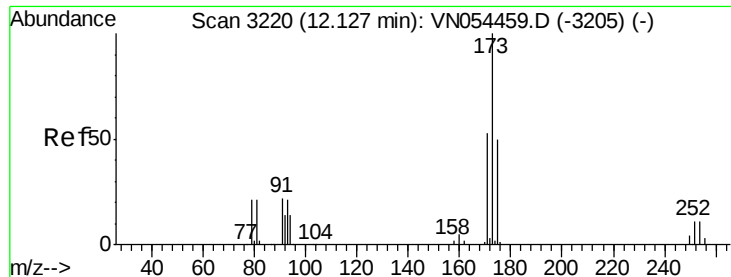
Ion 82.00 (81.70 to 82.70): VN054723.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN054723.D (-2903) (-)



Time-->

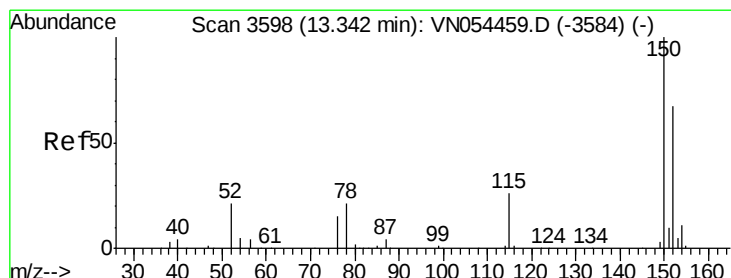
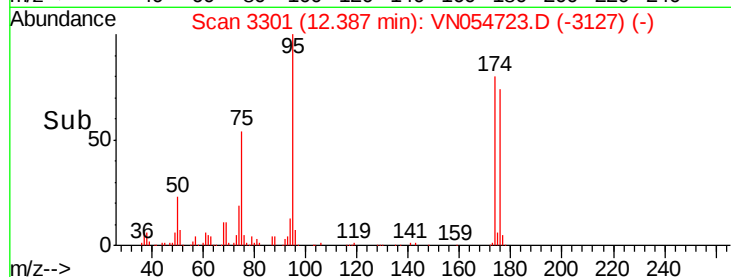
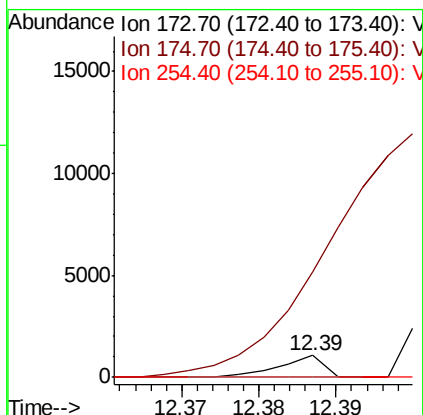
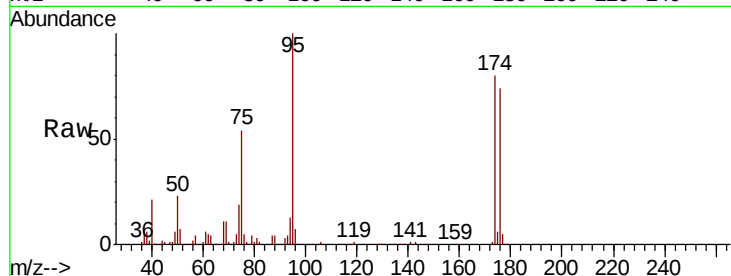




#71
Bromoform
Concen: 2.331 ug/l
RT: 12.39 min Scan# 3301
Delta R.T. 0.26 min
Lab File: VN054723.D
Acq: 27 Mar 2019 15:43

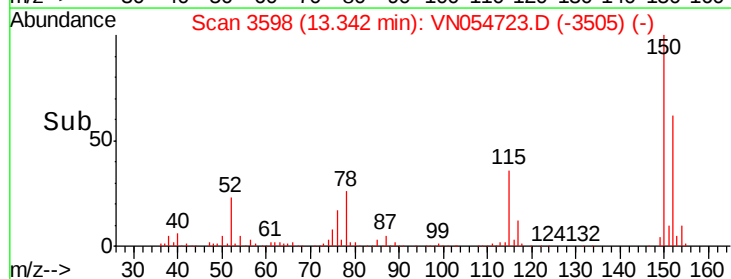
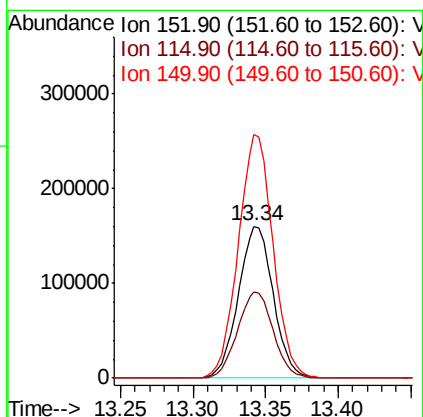
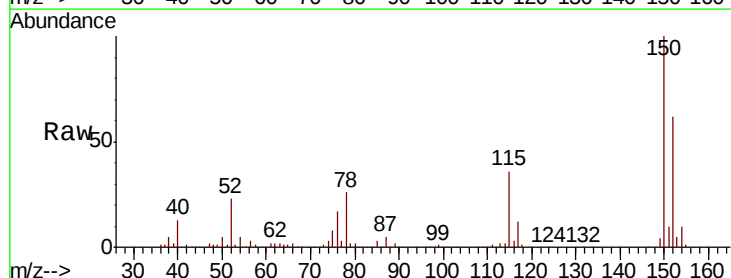
Instrument :
MSVOA_N
ClientSampled :

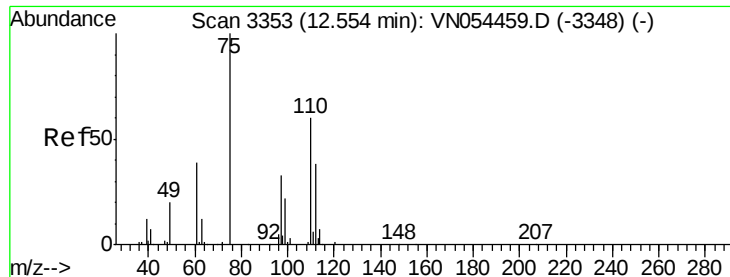
Tot Ion:173 Resp: 432
Ion Ratio Lower Upper
173 100
175 0.0 24.4 73.2#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054723.D
Acq: 27 Mar 2019 15:43

Tgt Ion:152 Resp: 267126
Ion Ratio Lower Upper
152 100
115 58.2 27.2 81.6
150 160.1 0.0 349.2





#76

1,2,3-Trichloropropane

Concen: 39.200 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054723.D

Acq: 27 Mar 2019 15:43

Instrument :

MSVOA_N

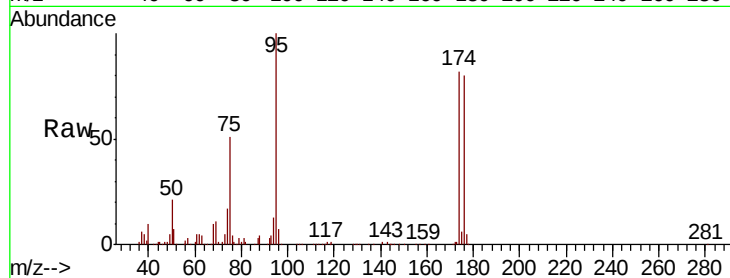
ClientSampled :

Tot Ion: 75 Resp: 166165

Ion Ratio Lower Upper

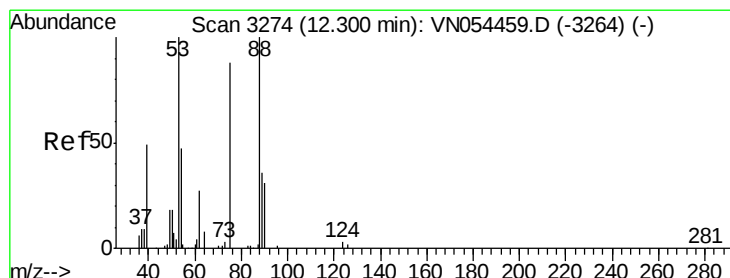
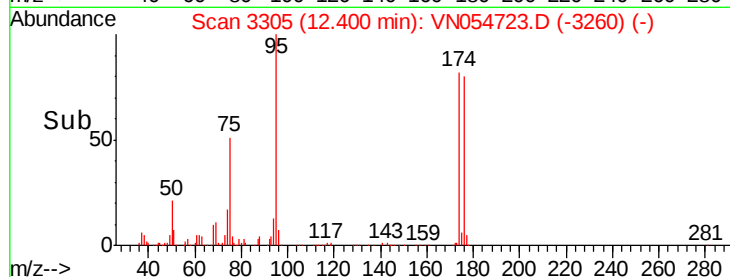
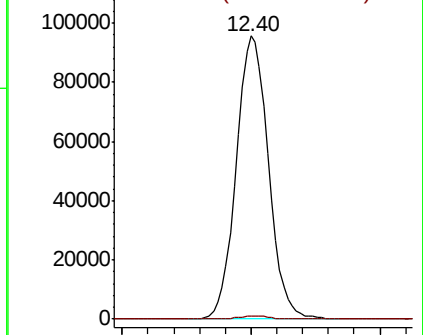
75 100

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: 129.736 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054723.D

Acq: 27 Mar 2019 15:43

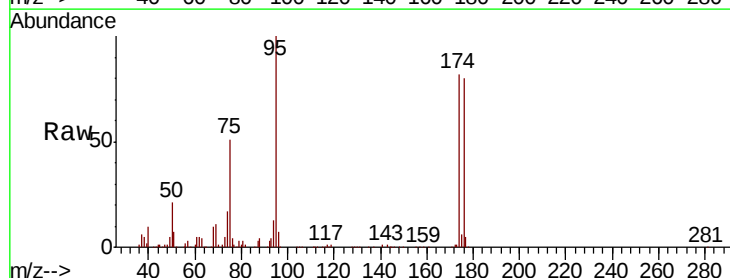
Tgt Ion: 75 Resp: 166165

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

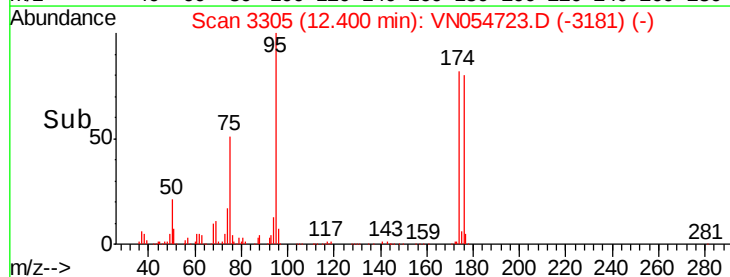
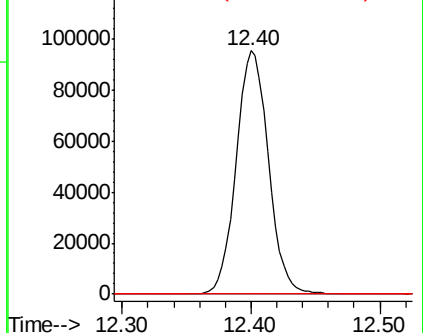
89 0.0 39.2 58.8#

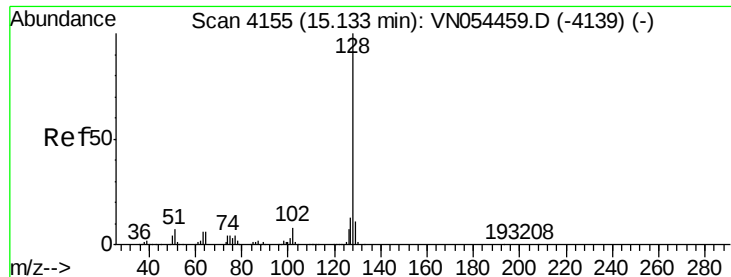


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95
Naphthalene
Concen: 0.603 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN054723.D
Acq: 27 Mar 2019 15:43

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:128 Resp: 5743
Ion Ratio Lower Upper
128 100
127 13.1 10.1 15.1
129 7.6 8.7 13.1#

