

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032719\
 Data File : VN054719.D
 Acq On : 27 Mar 2019 13:57
 Operator : JC/SP
 Sample : K2097-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

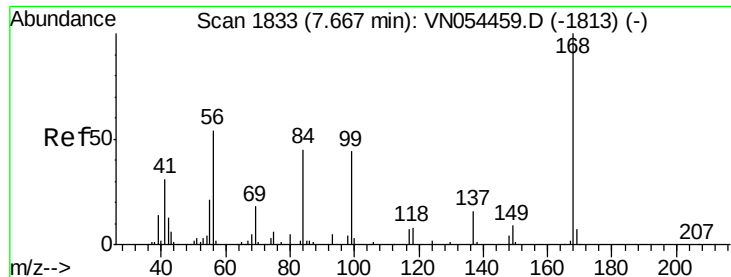
Quant Time: Mar 28 04:36:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	527588	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	882586	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	760221	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	273430	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	350189	53.36	ug/l	0.00
Spiked Amount			Recovery	=	106.72%	
35) Dibromofluoromethane	7.59	113	278990	49.07	ug/l	0.00
Spiked Amount			Recovery	=	98.14%	
50) Toluene-d8	10.09	98	1070151	50.06	ug/l	0.00
Spiked Amount			Recovery	=	100.12%	
62) 4-Bromofluorobenzene	12.40	95	325232	44.71	ug/l	0.00
Spiked Amount			Recovery	=	89.42%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	22437	11.372	ug/l #	82
18) Methyl Acetate	4.34	43	931	0.212	ug/l #	76
20) Methylene Chloride	4.55	84	19901	3.422	ug/l #	88
25) 2-Butanone	6.86	43	5037	1.993	ug/l #	85
29) Tetrahydrofuran	7.23	42	380	0.232	ug/l #	58
31) Cyclohexane	7.66	56	12340	Below Cal	#	15
36) 1,1-Dichloropropene	7.66	75	41658	5.048	ug/l #	47
38) Carbon Tetrachloride	7.67	117	50937	6.352	ug/l #	16
43) Isopropyl Acetate	8.17	43	9147	0.923	ug/l #	94
48) Methyl methacrylate	9.18	41	5126	0.953	ug/l #	18
51) 4-Methyl-2-Pentanone	9.98	43	5691	1.036	ug/l #	77
53) t-1,3-Dichloropropene	10.38	75	33	2.236	ug/l #	66
54) cis-1,3-Dichloropropene	9.90	75	42402	4.714	ug/l #	70
57) 1,3-Dichloropropane	10.76	76	4783	0.527	ug/l #	43
59) 2-Hexanone	10.77	43	80718	22.495	ug/l #	47
71) Bromoform	12.40	173	1983	2.716	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	170565	39.311	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	170565	130.092	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: VN054719.D

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Instrument :

MSVOA_N

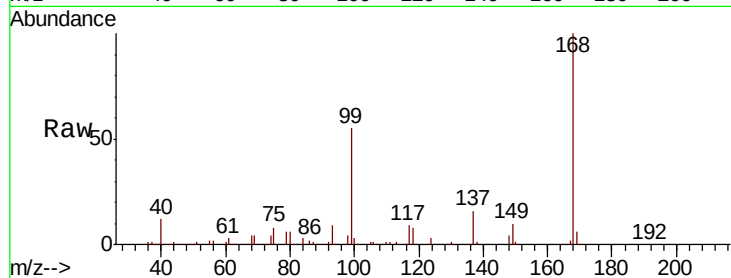
ClientSampleId :

Tot Ion:168 Resp: 527588

Ion Ratio Lower Upper

168 100

99 54.5 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN054719.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN054719.D (-1740) (-)

7.67

250000

200000

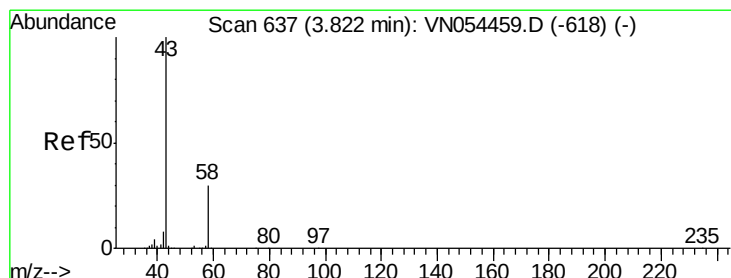
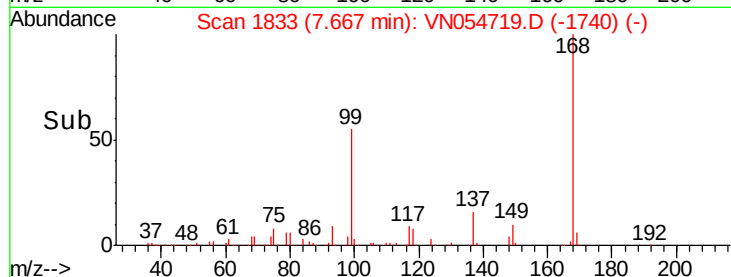
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 11.372 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN054719.D

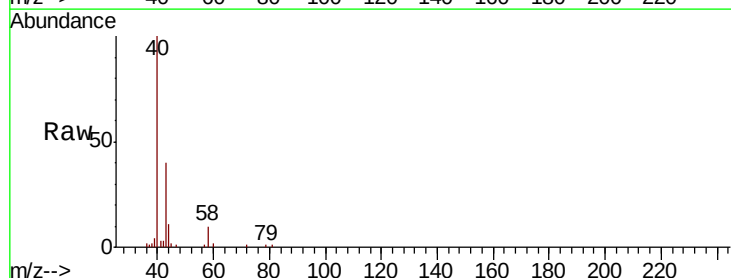
Acq: 27 Mar 2019 13:57

Tgt Ion: 43 Resp: 22437

Ion Ratio Lower Upper

43 100

58 26.4 29.9 44.9#



Abundance Ion 43.00 (42.70 to 43.70): VN054719.D (-544) (-)

Ion 58.00 (57.70 to 58.70): VN054719.D (-544) (-)

3.82

10000

8000

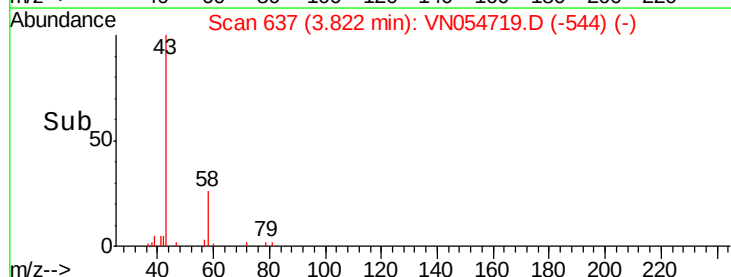
6000

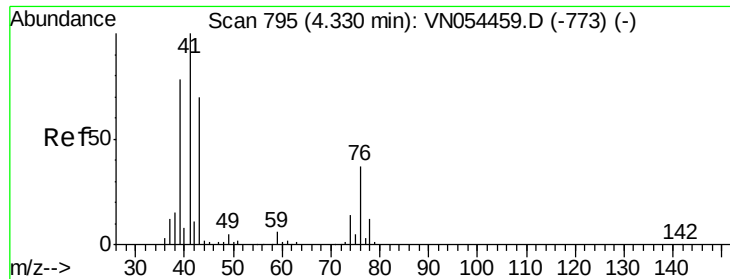
4000

2000

0

Time-->

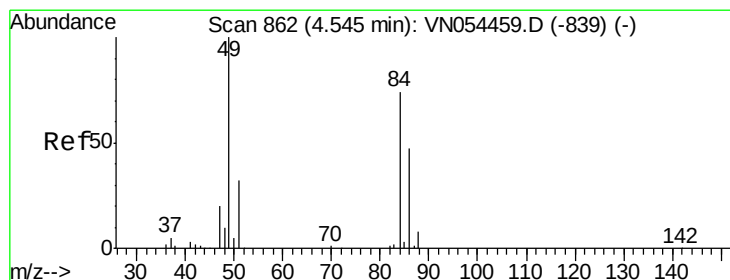
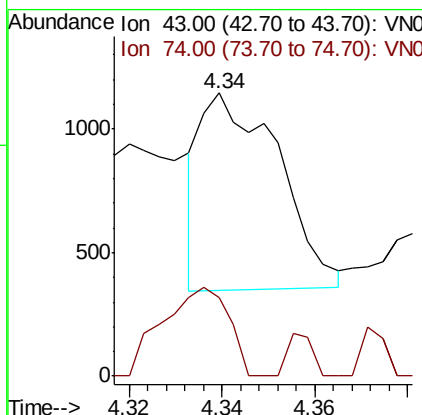
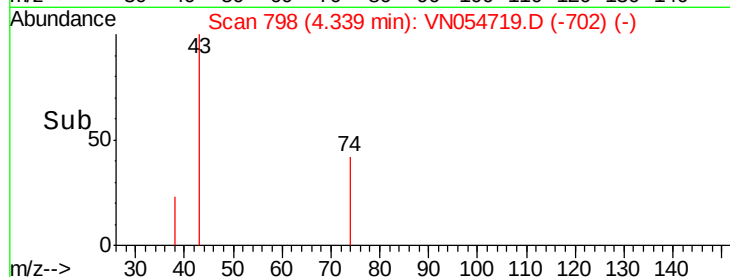
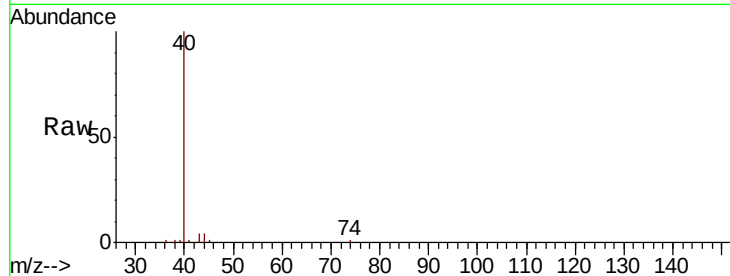




#18
Methyl Acetate
Concen: 0.212 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN054719.D
Acq: 27 Mar 2019 13:57

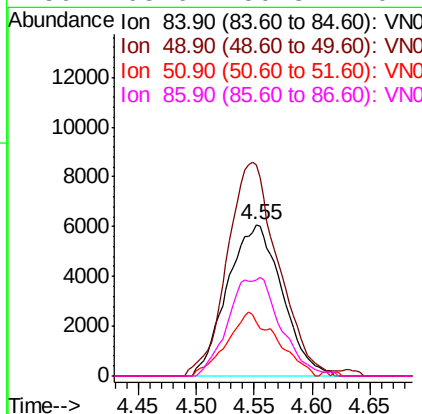
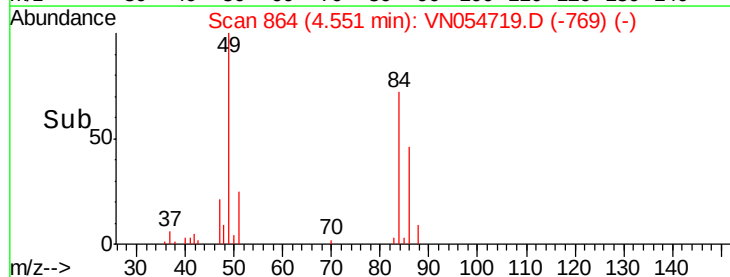
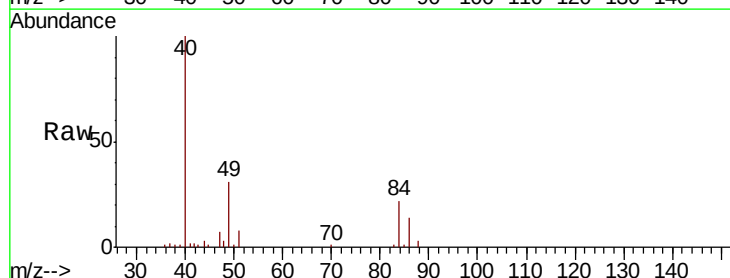
Instrument :
MSVOA_N
ClientSampled :

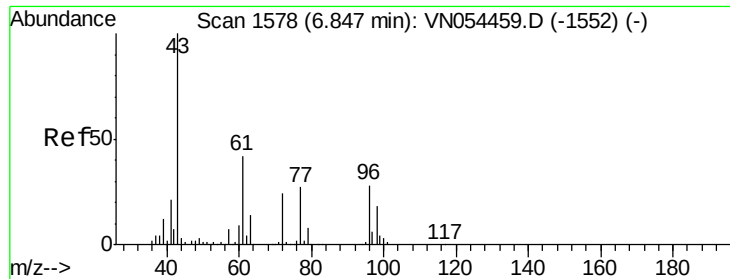
Tot Ion: 43 Resp: 931
Ion Ratio Lower Upper
43 100
74 38.0 20.8 31.2#



#20
Methylene Chloride
Concen: 3.422 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.01 min
Lab File: VN054719.D
Acq: 27 Mar 2019 13:57

Tgt Ion: 84 Resp: 19901
Ion Ratio Lower Upper
84 100
49 135.8 89.7 134.5#
51 35.5 28.2 42.4
86 63.6 50.8 76.2





#25

2-Butanone

Concen: 1.993 ug/l

RT: 6.86 min Scan# 1581

Delta R.T. 0.01 min

Lab File: VN054719.D

Acq: 27 Mar 2019 13:57

Instrument :

MSVOA_N

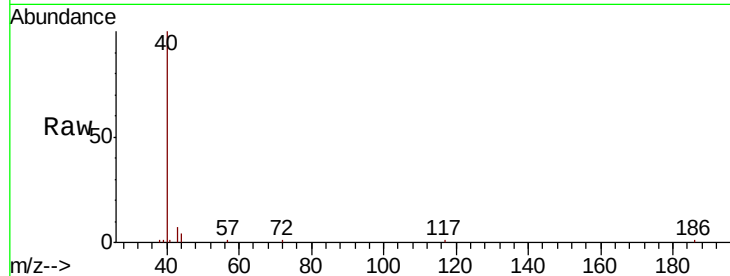
ClientSampleId :

Tot Ion: 43 Resp: 5037

Ion Ratio Lower Upper

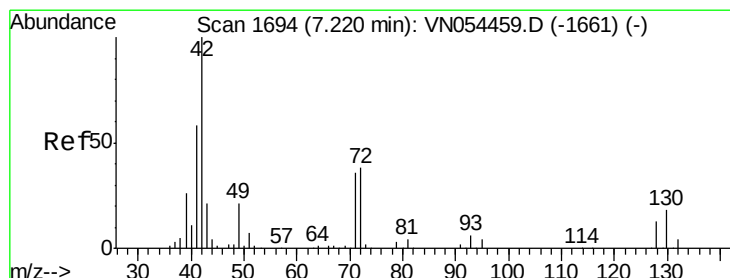
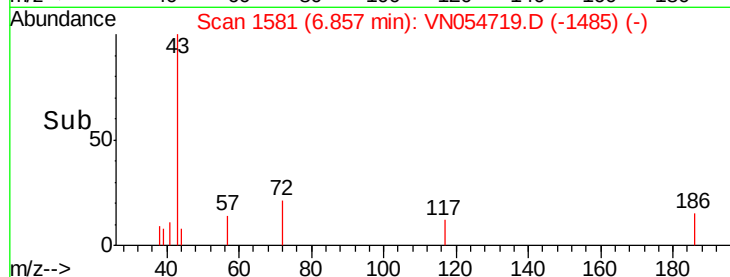
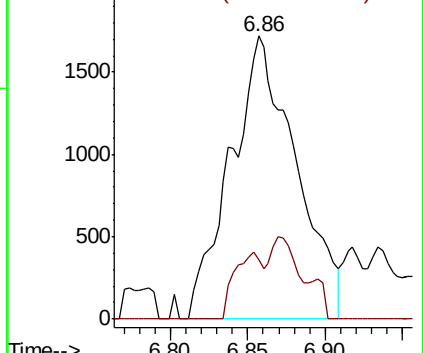
43 100

72 20.8 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: 0.232 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.01 min

Lab File: VN054719.D

Acq: 27 Mar 2019 13:57

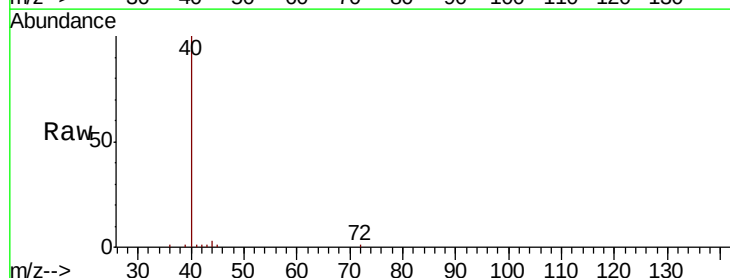
Tgt Ion: 42 Resp: 380

Ion Ratio Lower Upper

42 100

72 57.6 37.8 56.6#

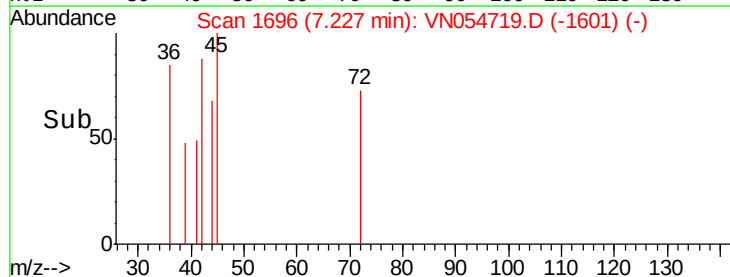
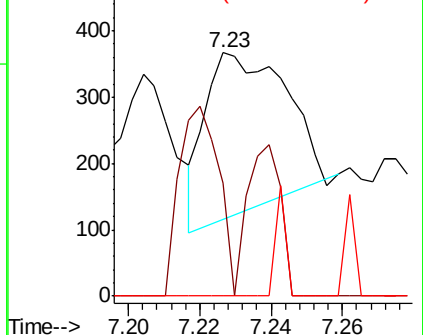
71 0.0 36.2 54.2#

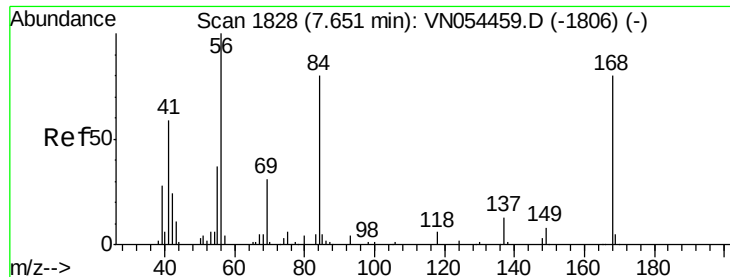


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

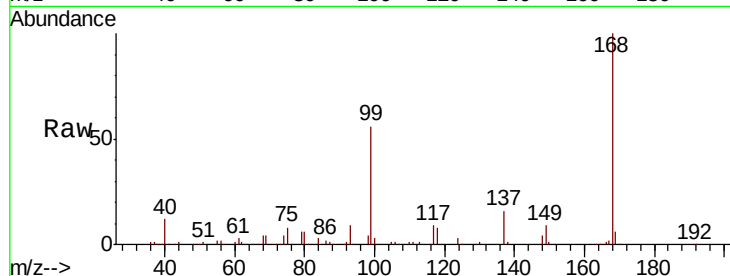
Lab File: VN054719.D

Acq: 27 Mar 2019 13:57

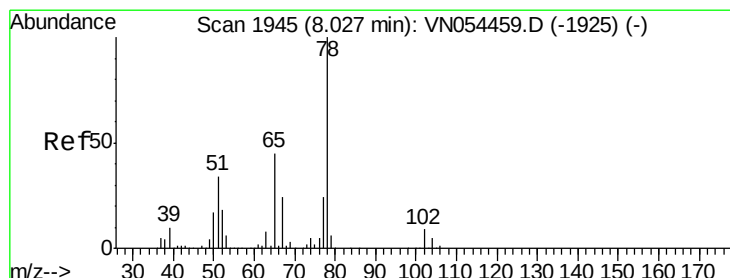
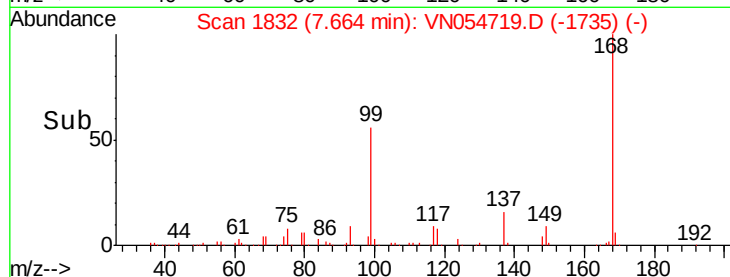
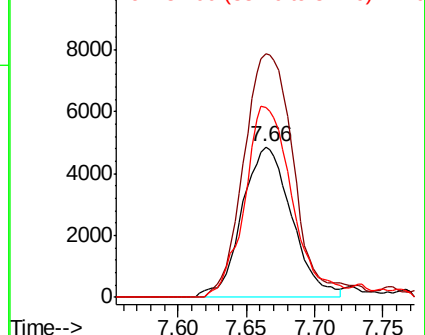
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 12340

Ion	Ratio	Lower	Upper
56	100		
69	161.8	27.8	41.6#
84	126.2	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: 53.363 ug/l

RT: 8.03 min Scan# 1945

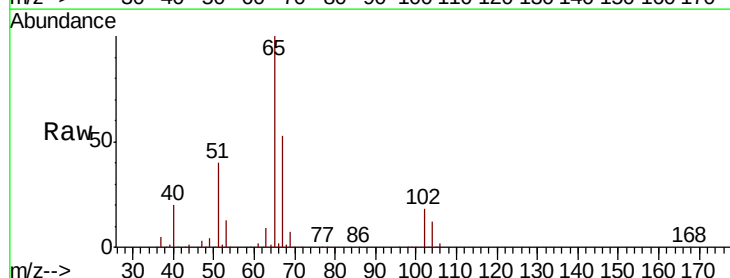
Delta R.T. 0.00 min

Lab File: VN054719.D

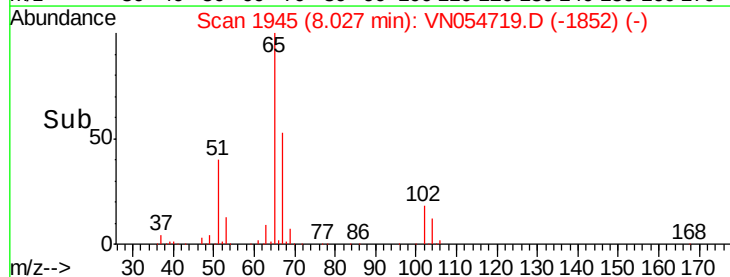
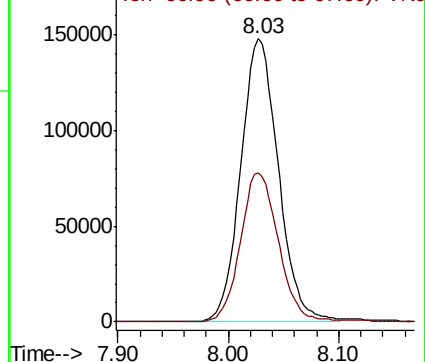
Acq: 27 Mar 2019 13:57

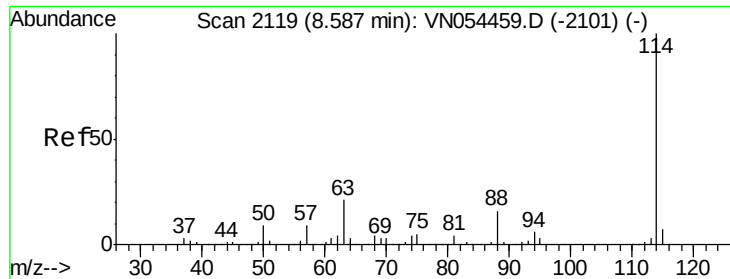
Tgt Ion: 65 Resp: 350189

Ion	Ratio	Lower	Upper
65	100		
67	53.2	0.0	104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

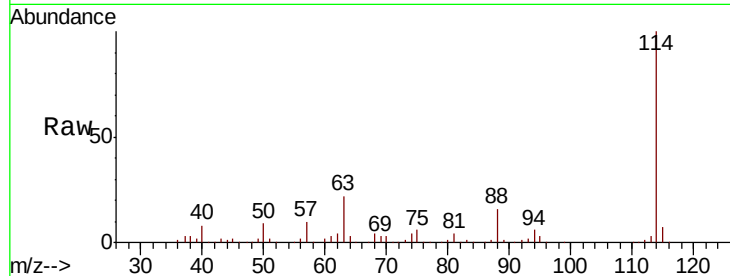




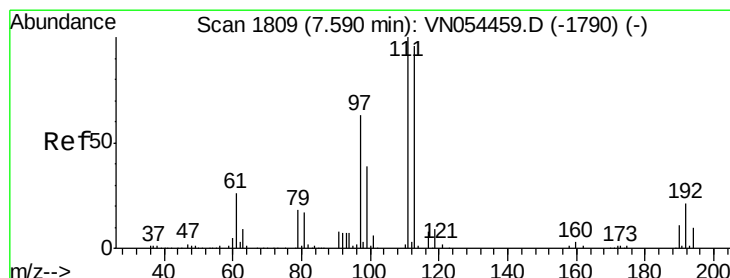
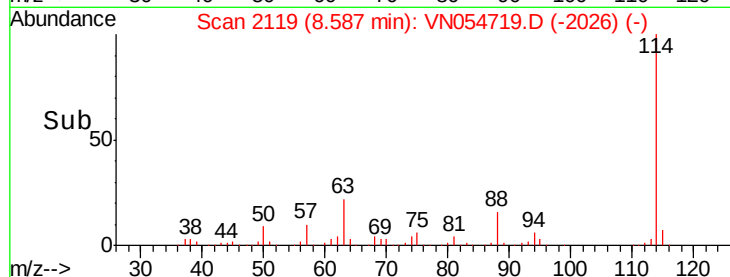
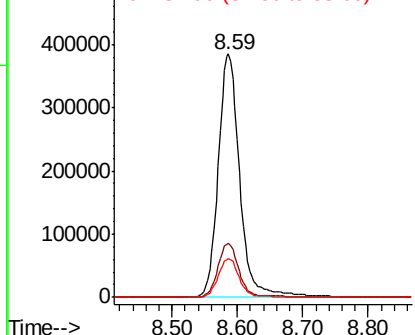
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054719.D
 Acq: 27 Mar 2019 13:57

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	35.2
88	15.8	0.0	30.2

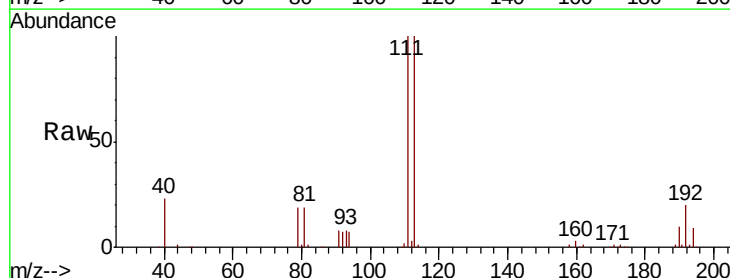


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

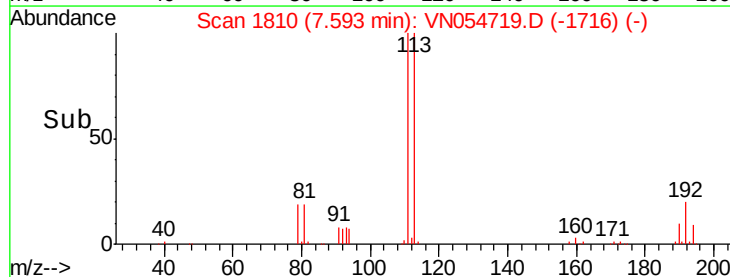
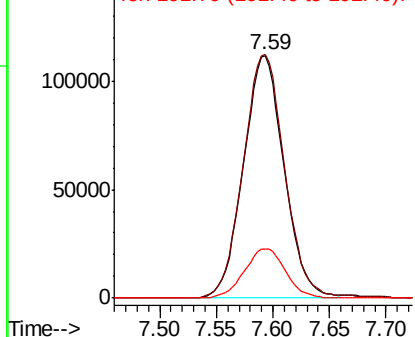


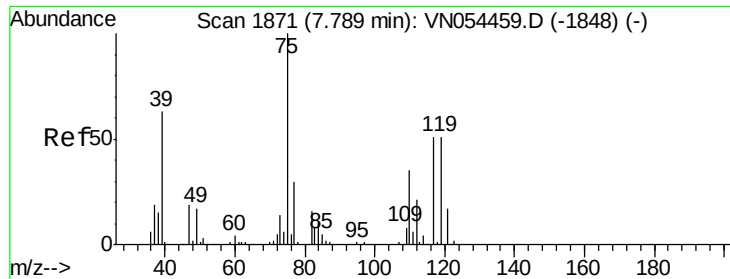
#35
 Dibromofluoromethane
 Concen: 49.066 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054719.D
 Acq: 27 Mar 2019 13:57

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.2	123.4
192	20.7	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

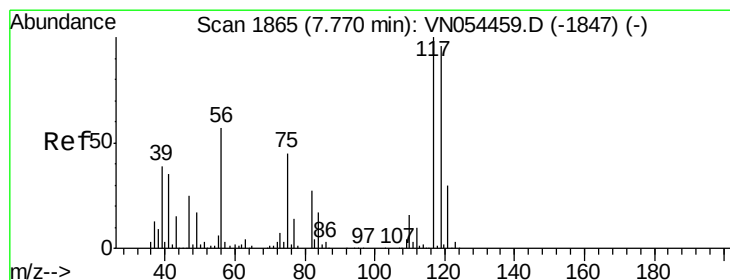
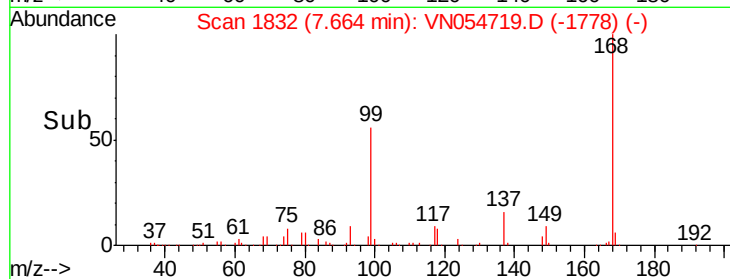
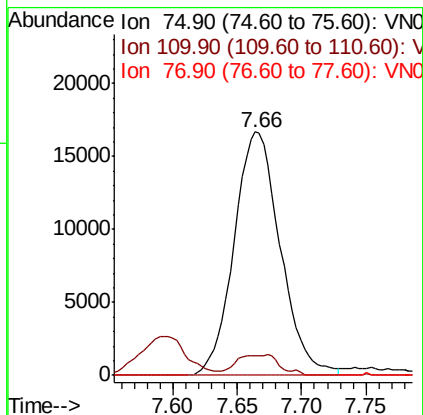
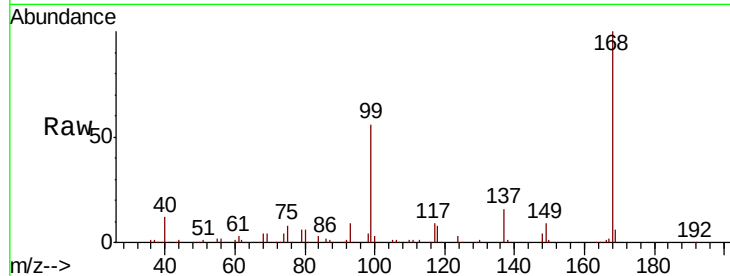




#36
 1,1-Dichloropropene
 Concen: 5.048 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054719.D
 Acq: 27 Mar 2019 13:57

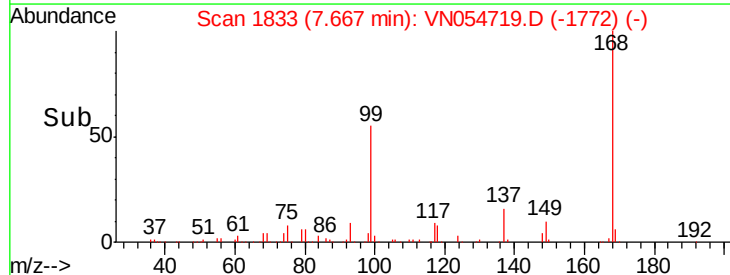
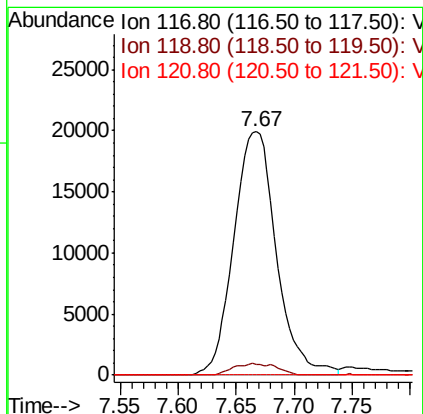
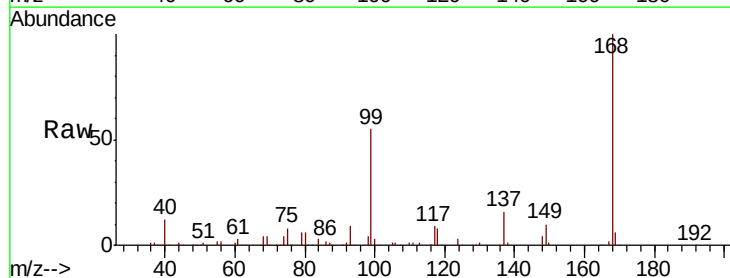
Instrument :
 MSVOA_N
 ClientSampled :

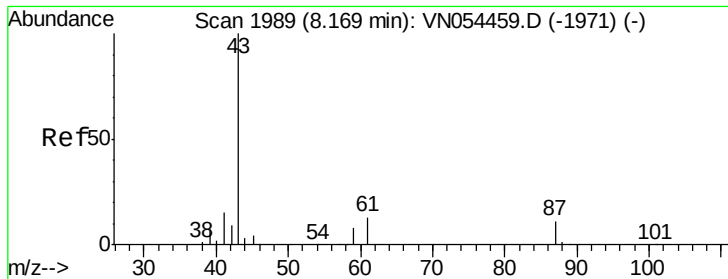
Tot Ion: 75 Resp: 41658
 Ion Ratio Lower Upper
 75 100
 110 8.0 19.1 57.5#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.352 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.10 min
 Lab File: VN054719.D
 Acq: 27 Mar 2019 13:57

Tgt Ion: 117 Resp: 50937
 Ion Ratio Lower Upper
 117 100
 119 4.5 76.3 114.5#
 121 0.0 24.6 36.8#





#43

Isopropyl Acetate

Concen: 0.923 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054719.D

Acq: 27 Mar 2019 13:57

Instrument :

MSVOA_N

ClientSampled :

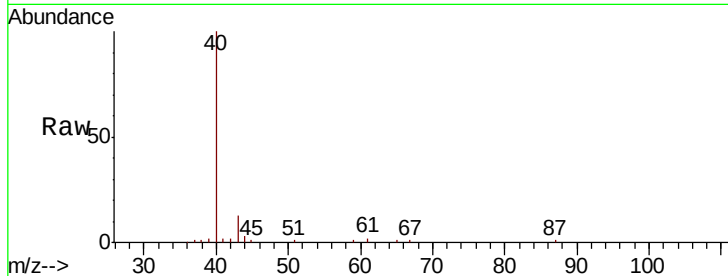
Tot Ion: 43 Resp: 9147

Ion Ratio Lower Upper

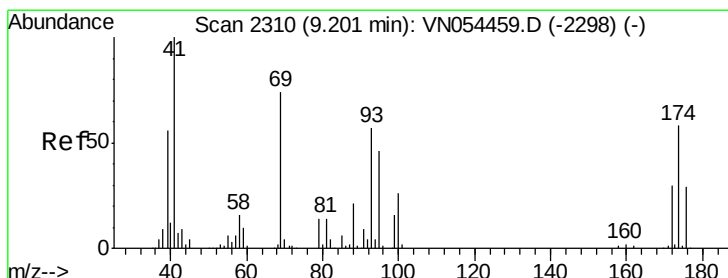
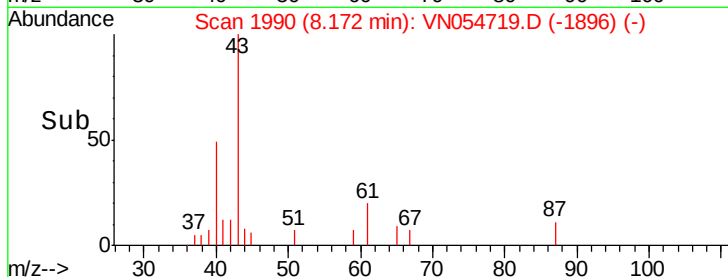
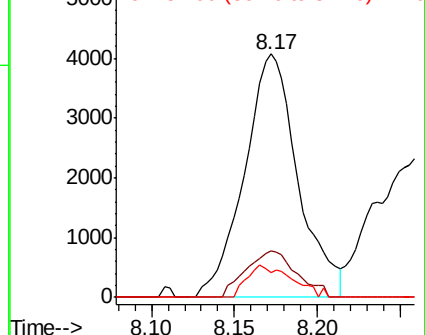
43 100

61 18.0 15.8 23.8

87 11.1 12.0 18.0#



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



#48

Methyl methacrylate

Concen: 0.953 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN054719.D

Acq: 27 Mar 2019 13:57

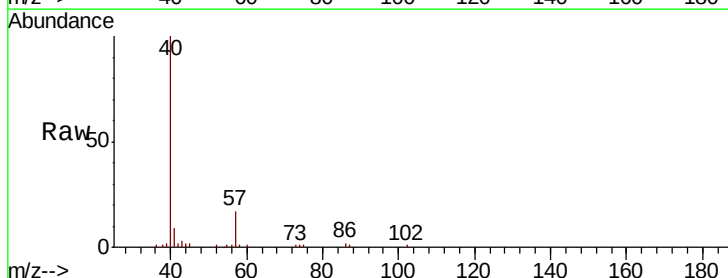
Tgt Ion: 41 Resp: 5126

Ion Ratio Lower Upper

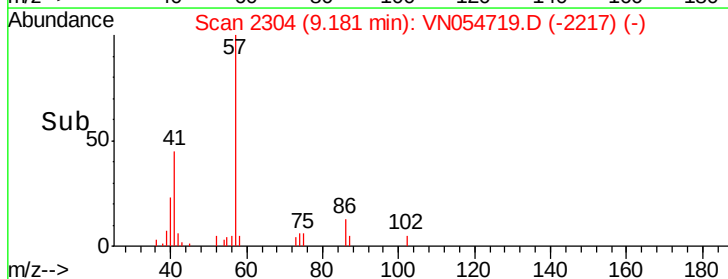
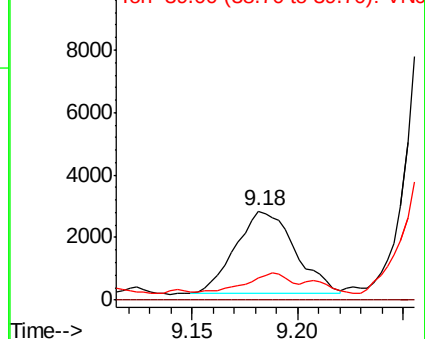
41 100

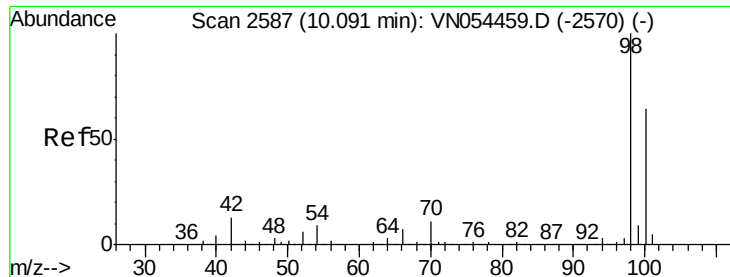
69 0.0 72.6 108.8#

39 14.2 47.5 71.3#



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





#50

Toluene-d8

Concen: 50.063 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054719.D

Acq: 27 Mar 2019 13:57

Instrument :

MSVOA_N

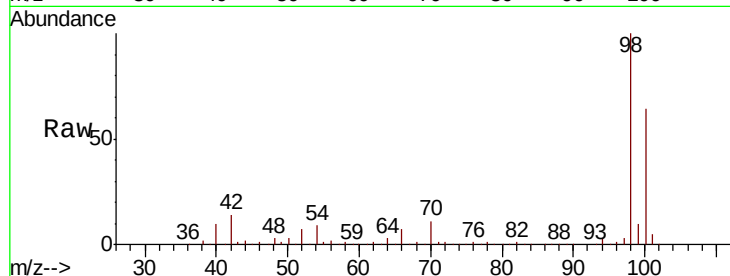
ClientSampleId :

Tot Ion: 98 Resp: 1070151

Ion Ratio Lower Upper

98 100

100 63.8 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

600000

500000

400000

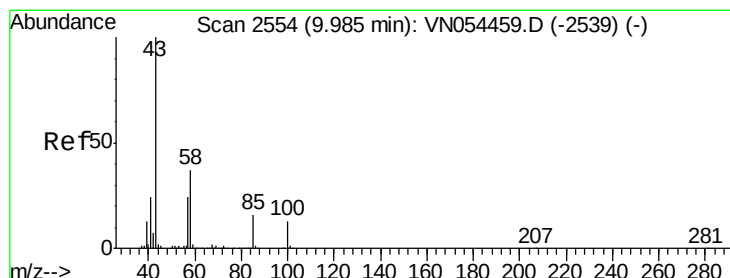
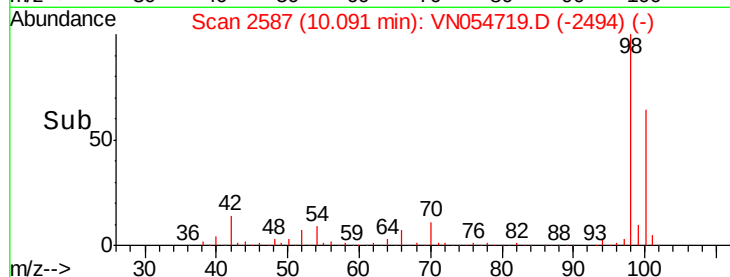
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.036 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. -0.01 min

Lab File: VN054719.D

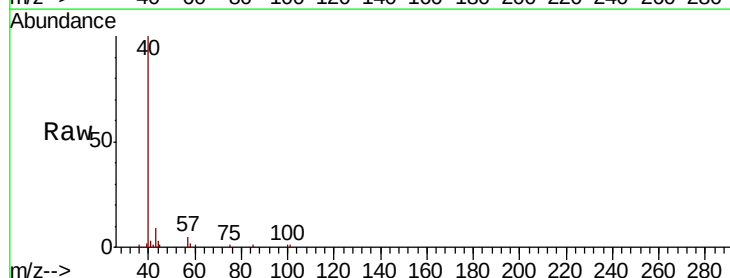
Acq: 27 Mar 2019 13:57

Tgt Ion: 43 Resp: 5691

Ion Ratio Lower Upper

43 100

58 25.6 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) (-)

9.98

5000

4000

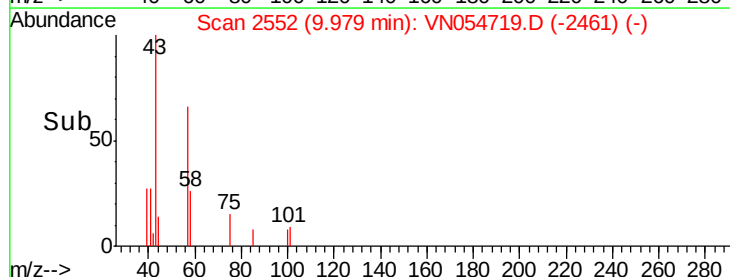
3000

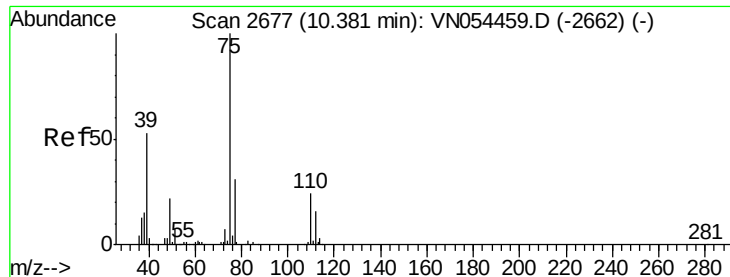
2000

1000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 2.236 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN054719.D

Acq: 27 Mar 2019 13:57

Instrument :

MSVOA_N

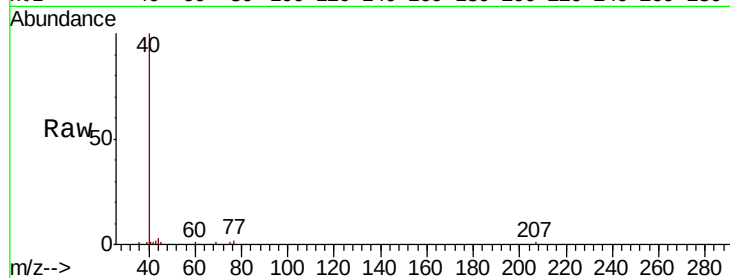
ClientSampled :

Tot Ion: 75 Resp: 33

Ion Ratio Lower Upper

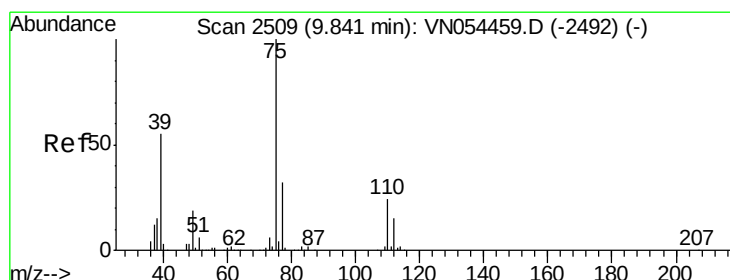
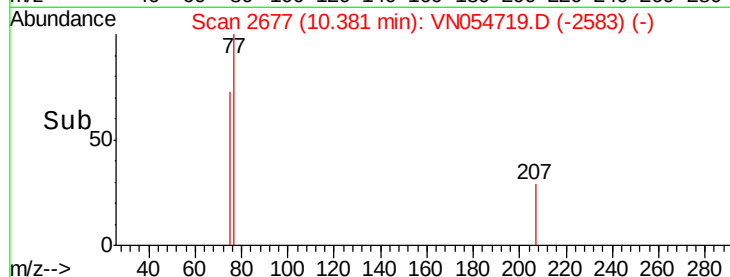
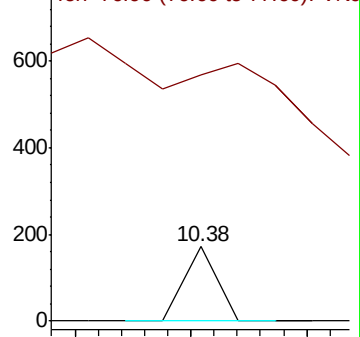
75 100

77 13.4 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: 4.714 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054719.D

Acq: 27 Mar 2019 13:57

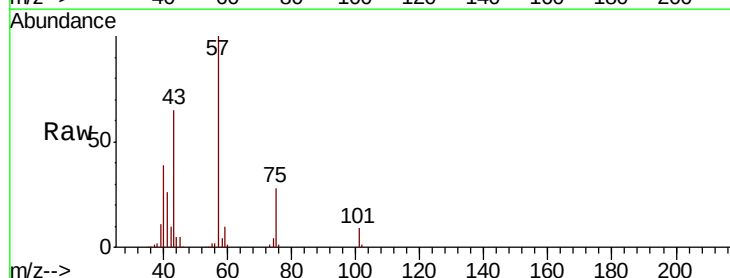
Tgt Ion: 75 Resp: 42402

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

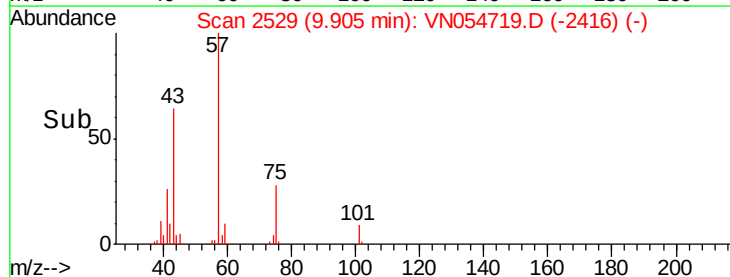
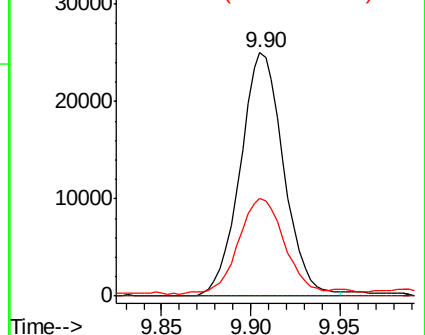
39 38.4 37.2 55.8

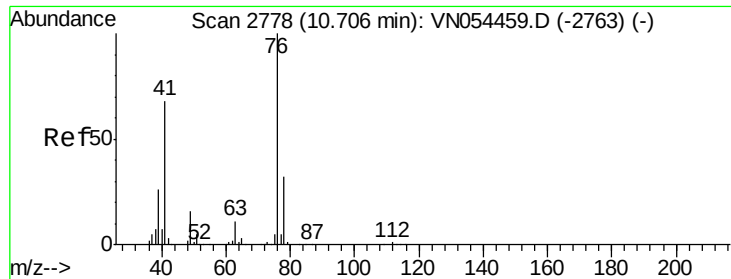


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

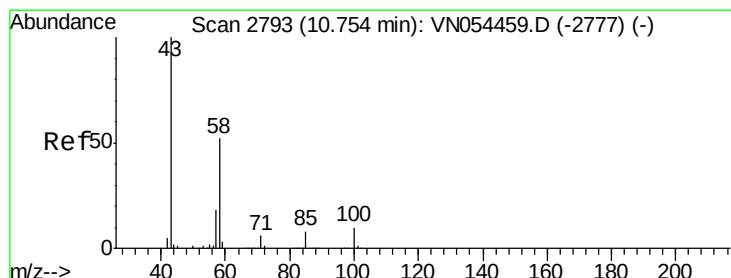
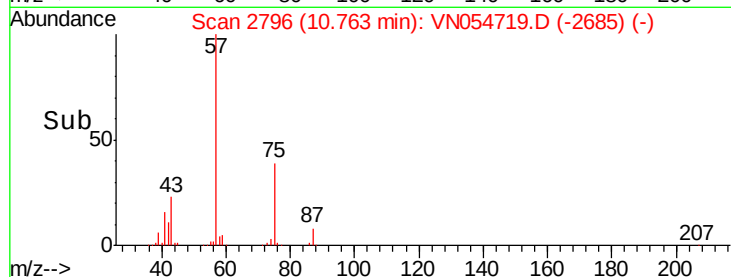
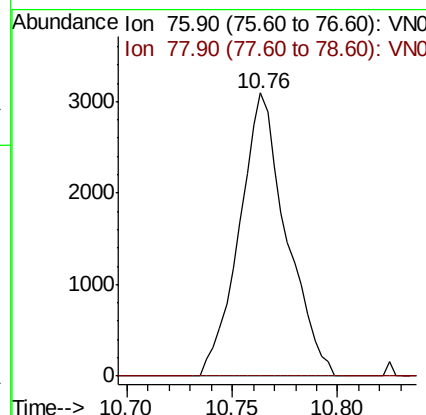
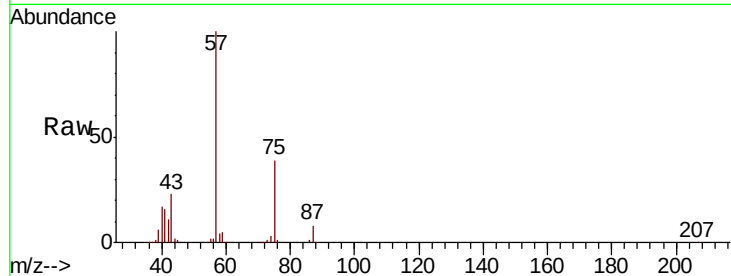




#57
 1,3-Dichloropropane
 Concen: 0.527 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN054719.D
 Acq: 27 Mar 2019 13:57

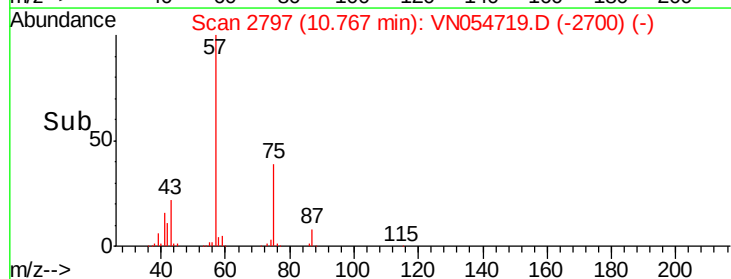
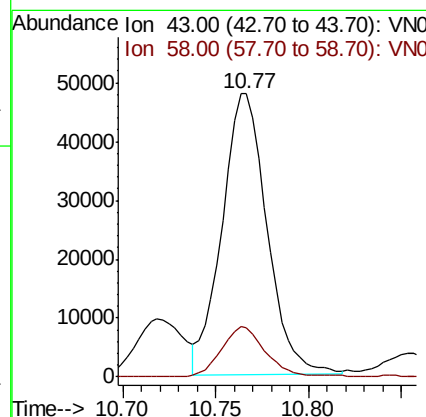
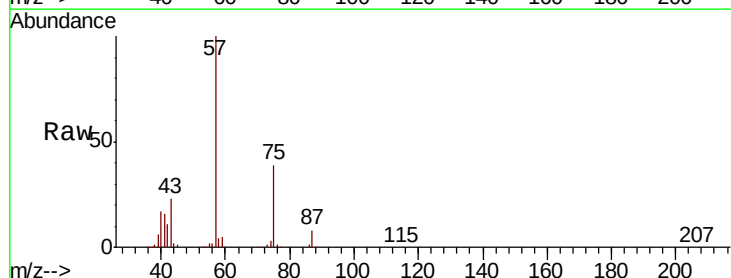
Instrument :
 MSVOA_N
 ClientSampled :

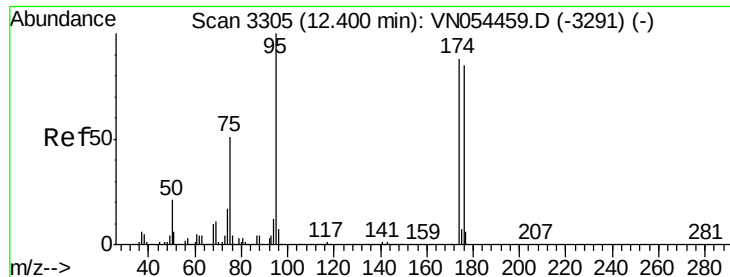
Tot Ion: 76 Resp: 4783
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#59
 2-Hexanone
 Concen: 22.495 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN054719.D
 Acq: 27 Mar 2019 13:57

Tgt Ion: 43 Resp: 80718
 Ion Ratio Lower Upper
 43 100
 58 17.6 28.0 83.9#

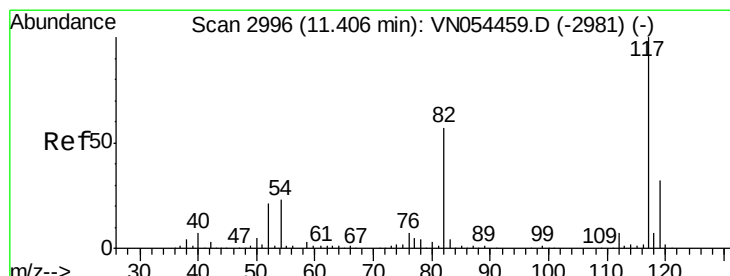
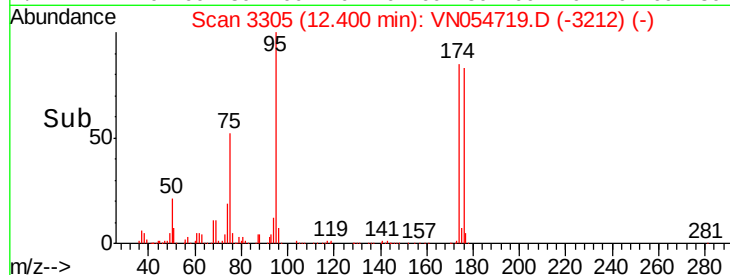
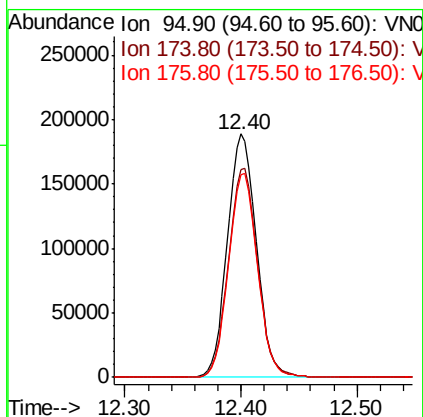
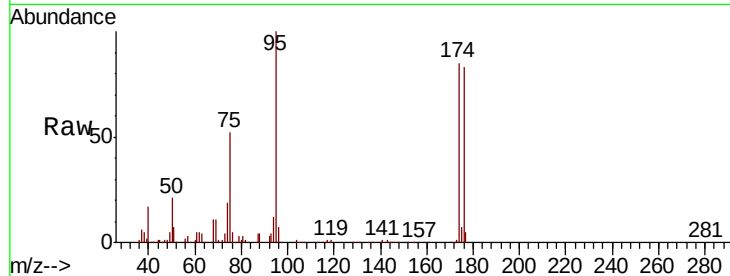




#62
4-Bromofluorobenzene
Concen: 44.712 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054719.D
Acq: 27 Mar 2019 13:57

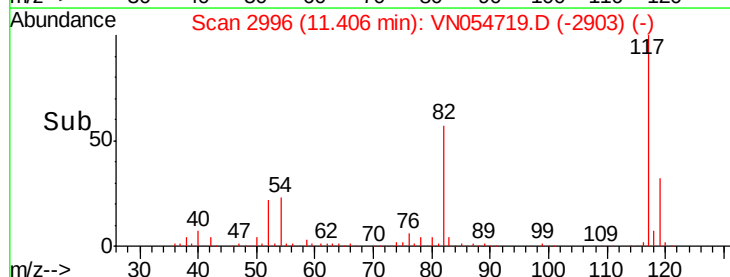
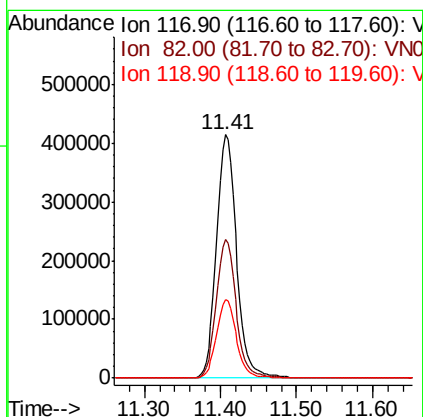
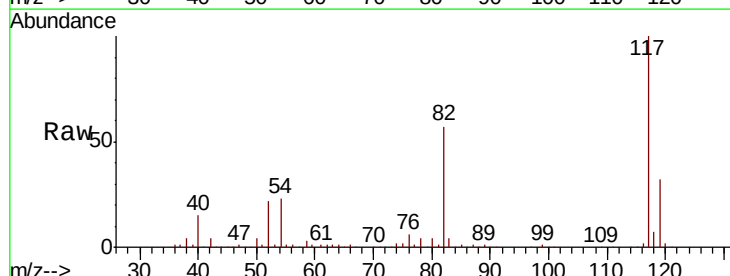
Instrument :
MSVOA_N
ClientSampleId :

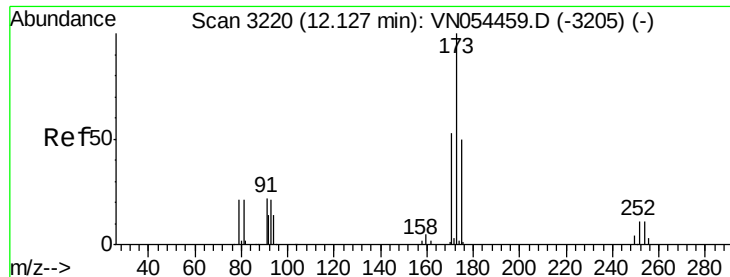
Tot Ion: 95 Resp: 325232
Ion Ratio Lower Upper
95 100
174 86.0 0.0 191.0
176 83.5 0.0 187.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054719.D
Acq: 27 Mar 2019 13:57

Tgt Ion: 117 Resp: 760221
Ion Ratio Lower Upper
117 100
82 56.9 40.0 60.0
119 32.2 25.8 38.6





#71

Bromoform

Concen: 2.716 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN054719.D

Acq: 27 Mar 2019 13:57

Instrument :

MSVOA_N

ClientSampleId :

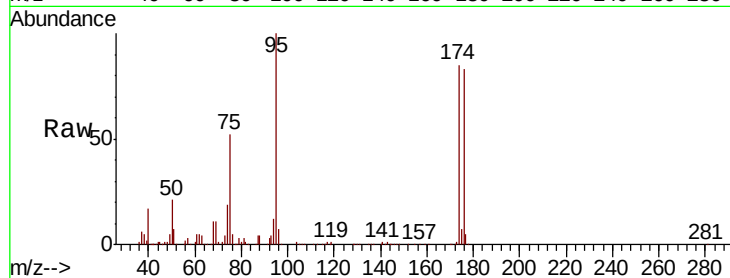
Tot Ion:173 Resp: 1983

Ion Ratio Lower Upper

173 100

175 948.4 24.4 73.2#

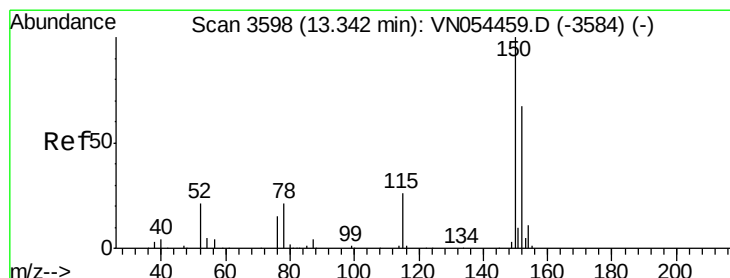
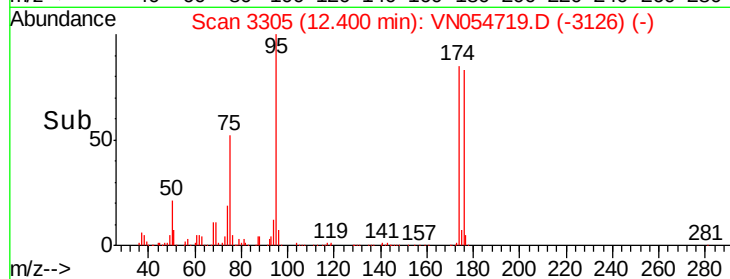
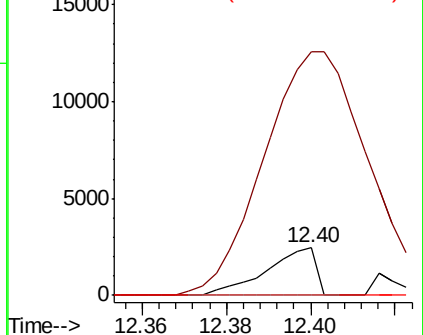
254 0.0 0.1 0.1#



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: VN054719.D

Acq: 27 Mar 2019 13:57

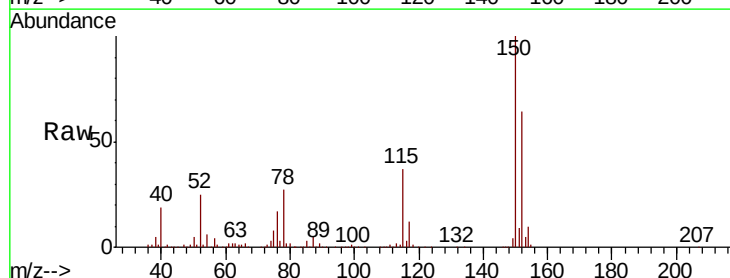
Tgt Ion:152 Resp: 273430

Ion Ratio Lower Upper

152 100

115 58.6 27.2 81.6

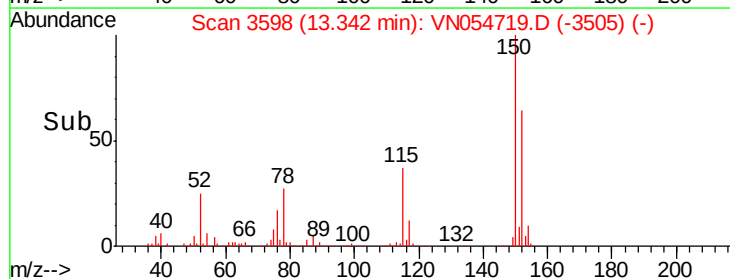
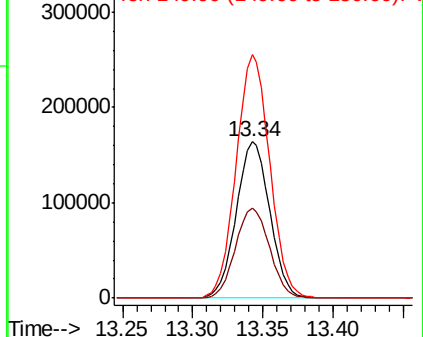
150 156.2 0.0 349.2

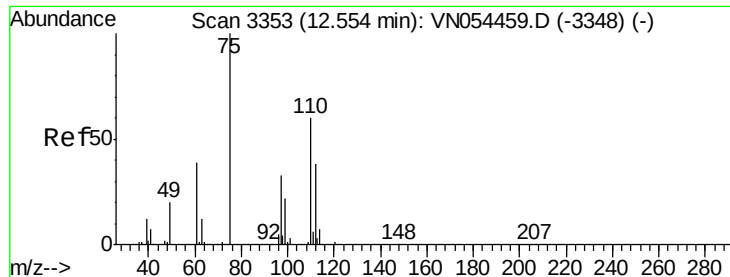


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 39.311 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054719.D

Acq: 27 Mar 2019 13:57

Instrument :

MSVOA_N

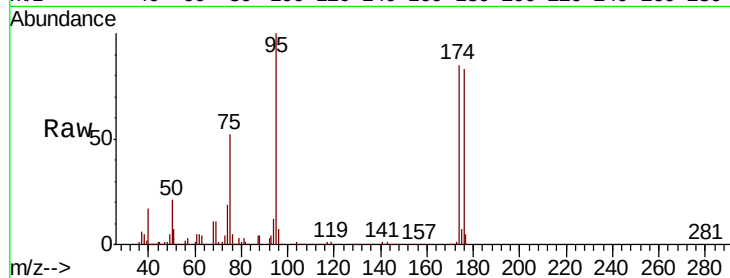
ClientSampled :

Tot Ion: 75 Resp: 170565

Ion Ratio Lower Upper

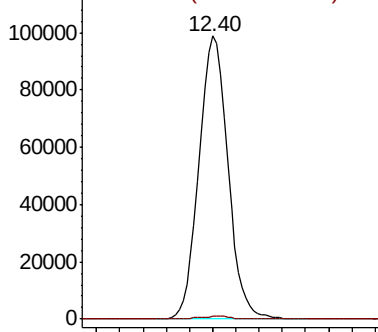
75 100

77 1.1 0.0 0.0#

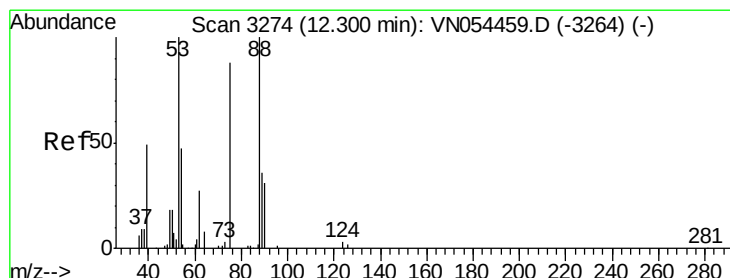
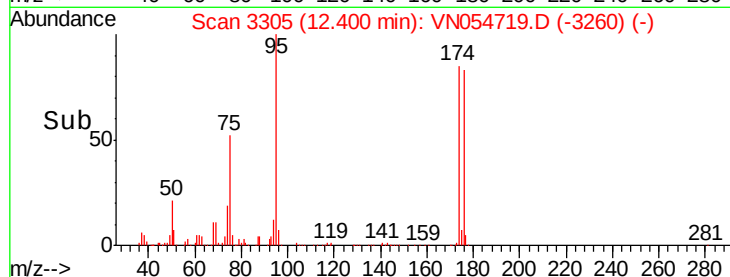


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 130.092 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054719.D

Acq: 27 Mar 2019 13:57

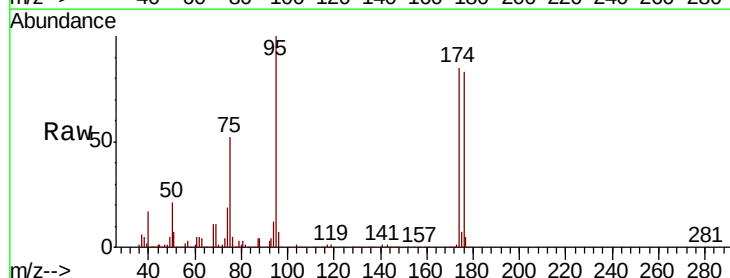
Tgt Ion: 75 Resp: 170565

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

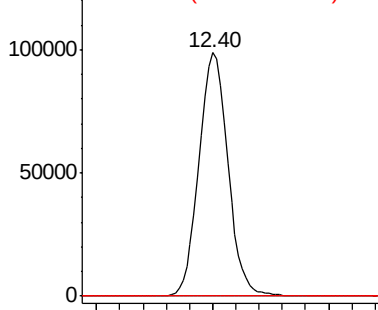
89 0.0 39.2 58.8#



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



Time--> 12.30 12.40 12.50

