

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032719\
 Data File : VN054718.D
 Acq On : 27 Mar 2019 13:31
 Operator : JC/SP
 Sample : K2086-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 28 04:36:03 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	529300	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	877711	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	727416	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	254669	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	357421	54.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.58%	
35) Dibromofluoromethane	7.59	113	283927	50.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.42%	
50) Toluene-d8	10.09	98	1045630	49.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.38%	
62) 4-Bromofluorobenzene	12.40	95	313796	43.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.76%	

Target Compounds

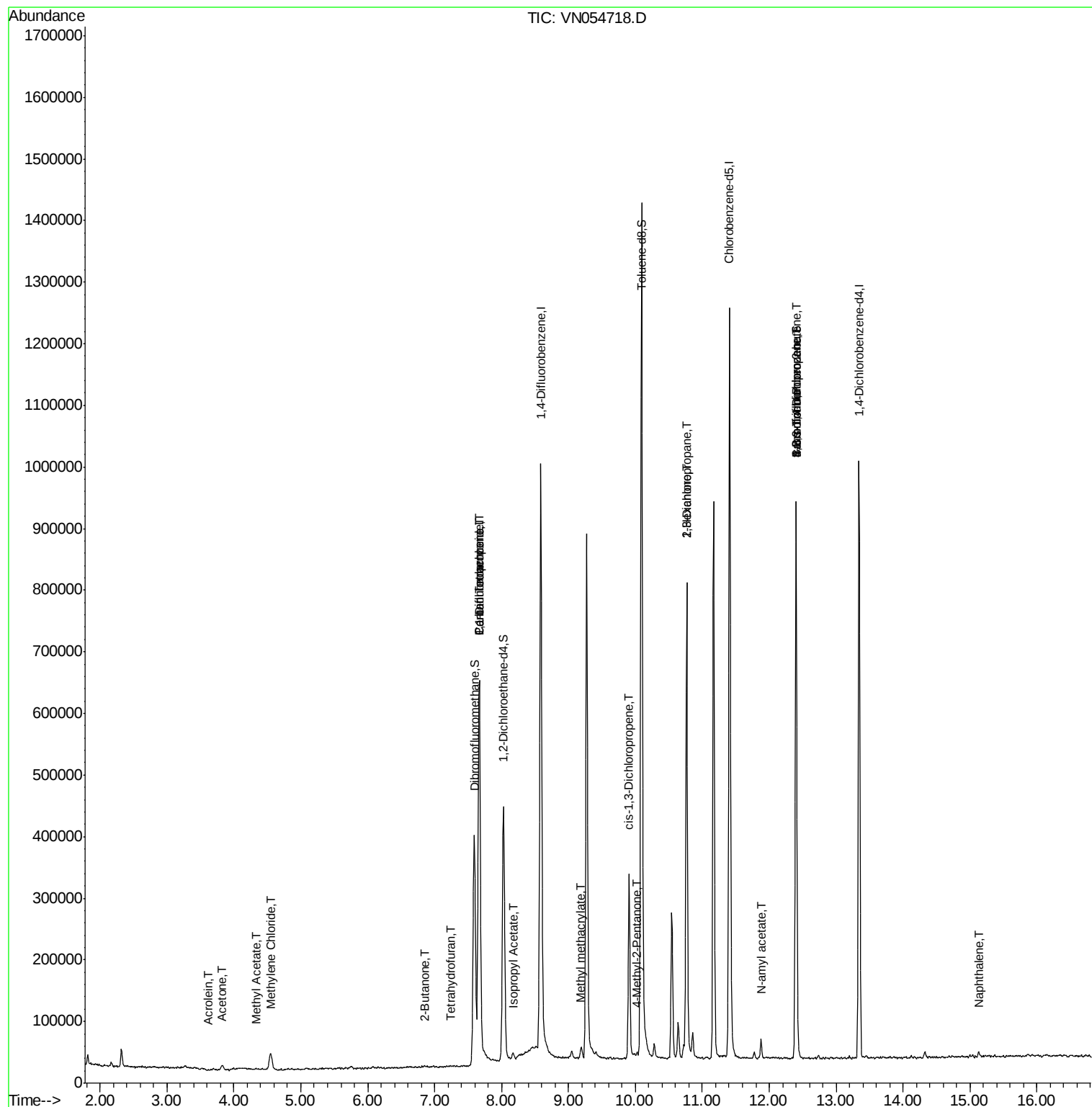
					Qvalue	
13) Acrolein	3.61	56	146	0.265	ug/l	95
16) Acetone	3.82	43	14046	7.096	ug/l #	71
18) Methyl Acetate	4.33	43	1319	0.299	ug/l #	72
20) Methylene Chloride	4.55	84	18130	3.107	ug/l #	81
25) 2-Butanone	6.86	43	1831	0.722	ug/l #	46
29) Tetrahydrofuran	7.23	42	1232	0.749	ug/l #	41
31) Cyclohexane	7.66	56	11042	Below Cal	#	7
36) 1,1-Dichloropropene	7.66	75	40766	4.967	ug/l #	48
38) Carbon Tetrachloride	7.66	117	51275	6.429	ug/l #	15
43) Isopropyl Acetate	8.17	43	13573	1.377	ug/l #	87
48) Methyl methacrylate	9.18	41	6877	1.285	ug/l #	11
51) 4-Methyl-2-Pentanone	10.03	43	6772	1.240	ug/l #	36
54) cis-1,3-Dichloropropene	9.90	75	48914	5.468	ug/l #	71
57) 1,3-Dichloropropane	10.77	76	7465	0.828	ug/l #	43
59) 2-Hexanone	10.76	43	127949	35.856	ug/l #	48
71) Bromoform	12.40	173	500	2.351	ug/l #	1
74) N-amyl acetate	11.88	43	10111	1.714	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	161994	40.086	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	161994	132.595	ug/l #	11
95) Naphthalene	15.13	128	6639	0.731	ug/l #	93

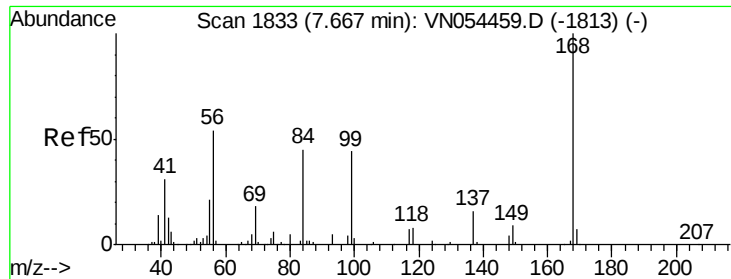
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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: VN054718.D

Acq: 27 Mar 2019 13:31

Instrument :

MSVOA_N

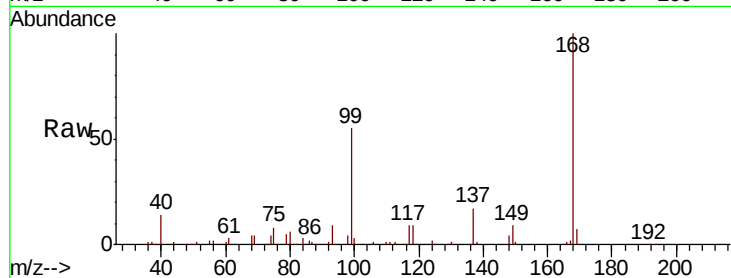
ClientSampleId :

Tot Ion:168 Resp: 529300

Ion Ratio Lower Upper

168 100

99 55.3 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

200000

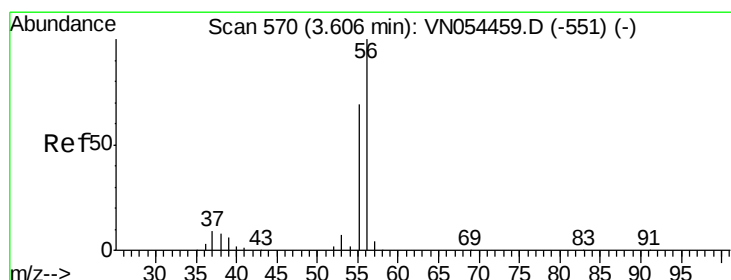
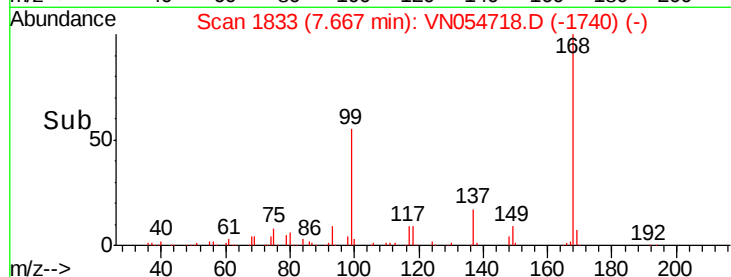
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 0.265 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN054718.D

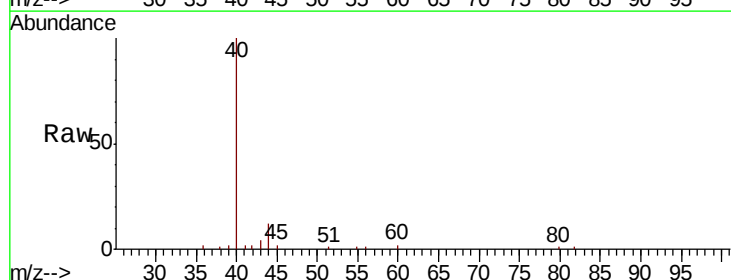
Acq: 27 Mar 2019 13:31

Tgt Ion: 56 Resp: 146

Ion Ratio Lower Upper

56 100

55 67.1 56.7 85.1



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.61

200

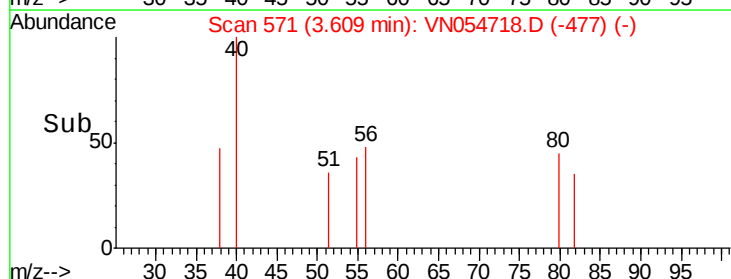
150

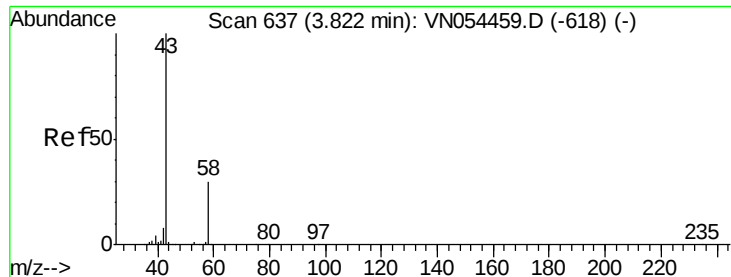
100

50

0

Time-->

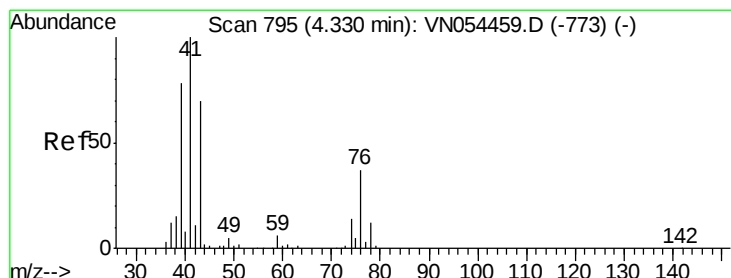
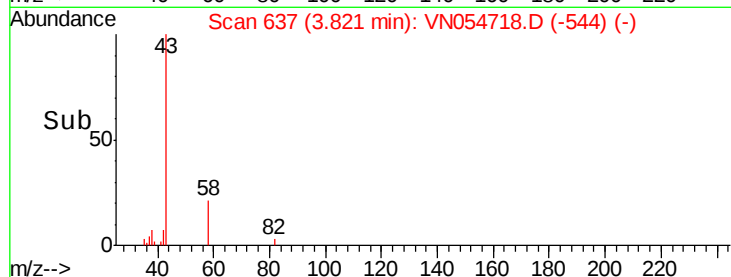
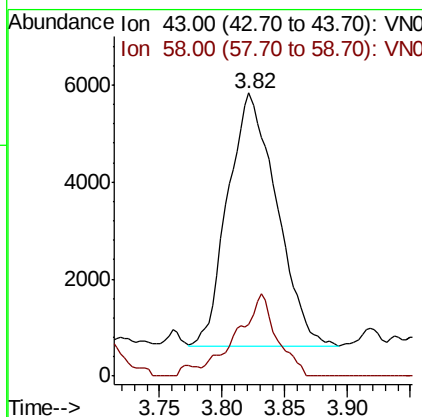
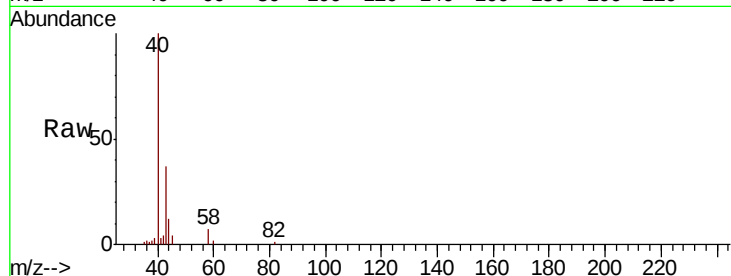




#16
Acetone
Concen: 7.096 ug/l
RT: 3.82 min Scan# 637
Delta R.T. -0.00 min
Lab File: VN054718.D
Acq: 27 Mar 2019 13:31

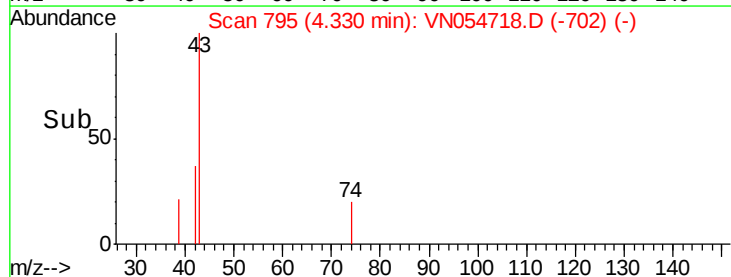
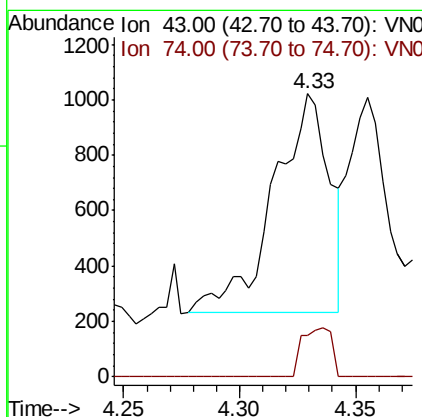
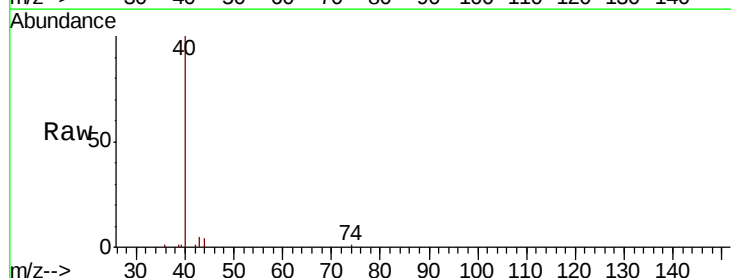
Instrument :
MSVOA_N
ClientSampleId :

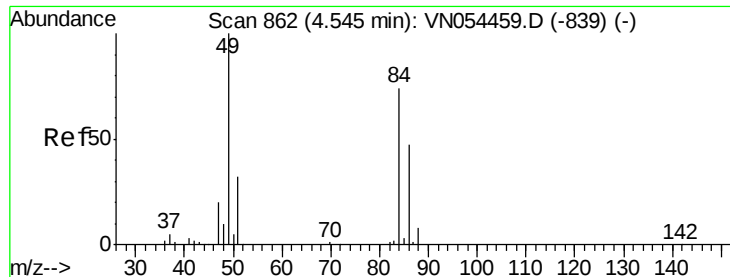
Tot Ion: 43 Resp: 14046
Ion Ratio Lower Upper
43 100
58 20.2 29.9 44.9#



#18
Methyl Acetate
Concen: 0.299 ug/l
RT: 4.33 min Scan# 795
Delta R.T. -0.00 min
Lab File: VN054718.D
Acq: 27 Mar 2019 13:31

Tgt Ion: 43 Resp: 1319
Ion Ratio Lower Upper
43 100
74 11.8 20.8 31.2#

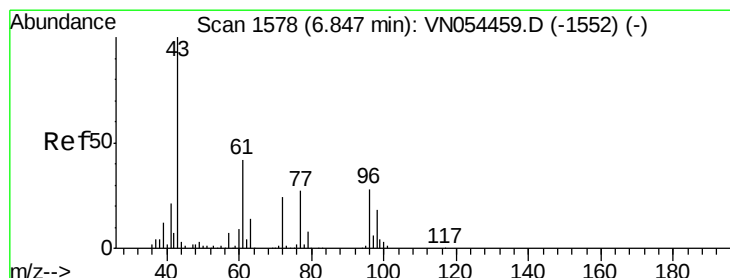
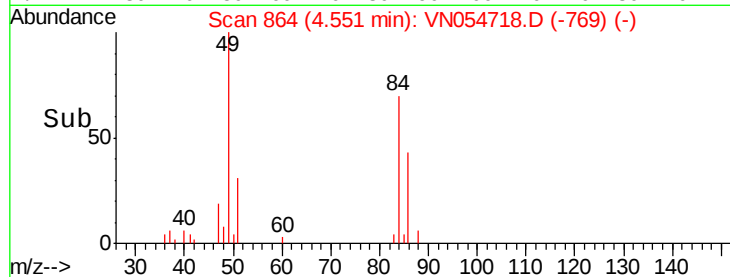
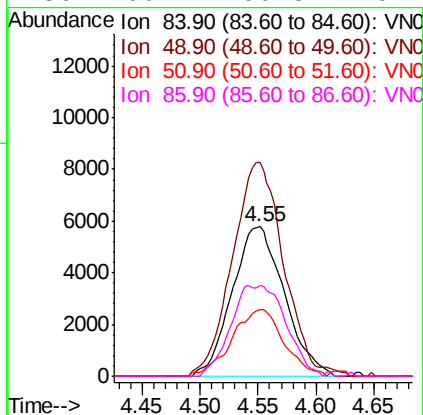
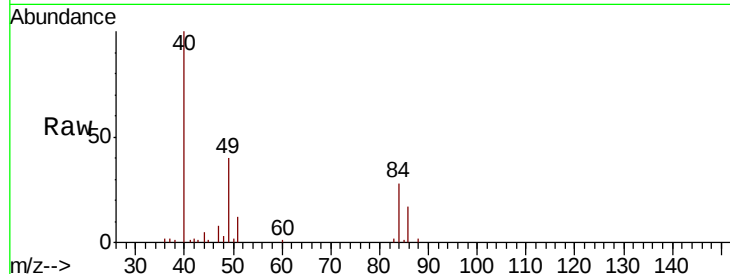




#20
Methvlene Chloride
Concen: 3.107 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.01 min
Lab File: VN054718.D
Acq: 27 Mar 2019 13:31

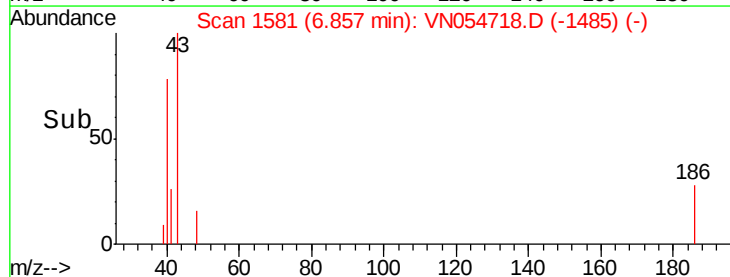
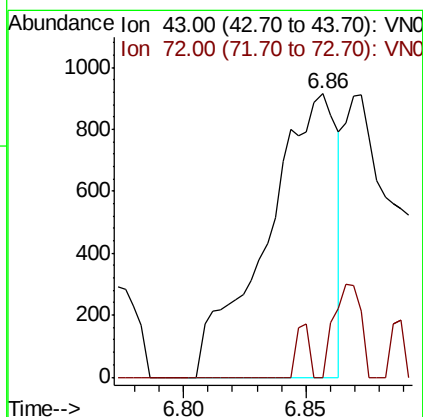
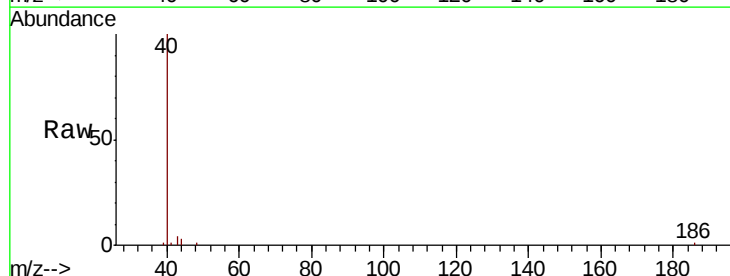
Instrument :
MSVOA_N
ClientSampled :

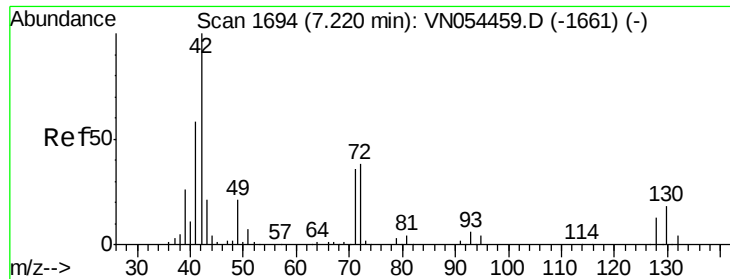
Tot Ion: 84 Resp: 18130
Ion Ratio Lower Upper
84 100
49 142.8 89.7 134.5#
51 44.2 28.2 42.4#
86 60.7 50.8 76.2



#25
2-Butanone
Concen: 0.722 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. 0.01 min
Lab File: VN054718.D
Acq: 27 Mar 2019 13:31

Tgt Ion: 43 Resp: 1831
Ion Ratio Lower Upper
43 100
72 0.0 23.0 34.6#





#29

Tetrahydrofuran

Concen: 0.749 ug/l

RT: 7.23 min Scan# 1698

Delta R.T. 0.01 min

Lab File: VN054718.D

Acq: 27 Mar 2019 13:31

Instrument :

MSVOA_N

ClientSampled :

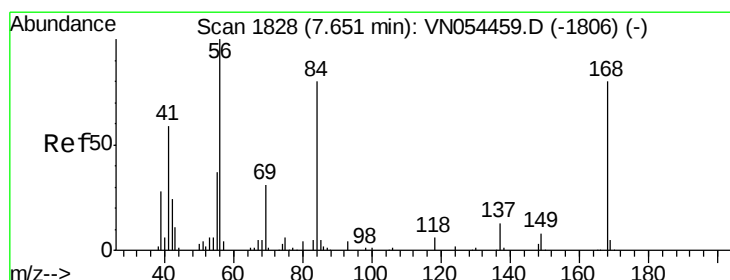
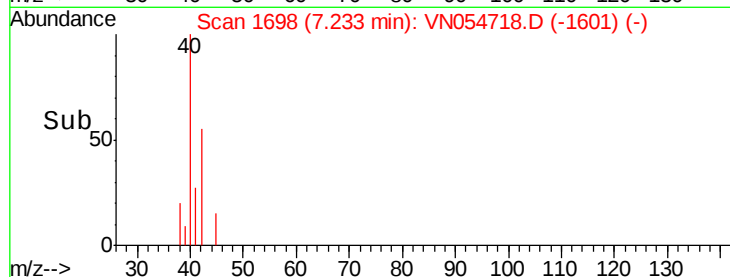
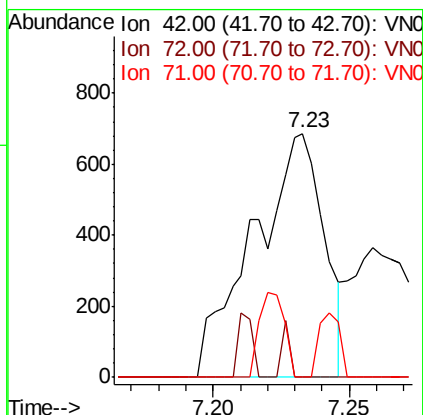
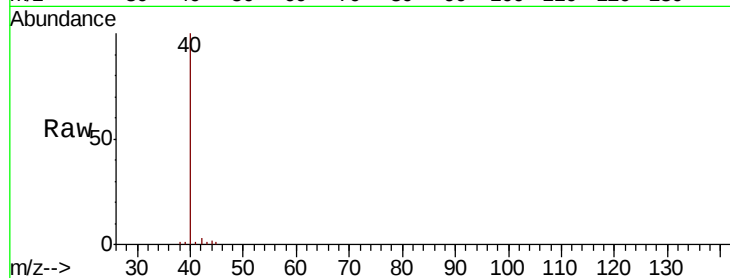
Tot Ion: 42 Resp: 1232

Ion Ratio Lower Upper

42 100

72 2.5 37.8 56.6#

71 12.3 36.2 54.2#



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN054718.D

Acq: 27 Mar 2019 13:31

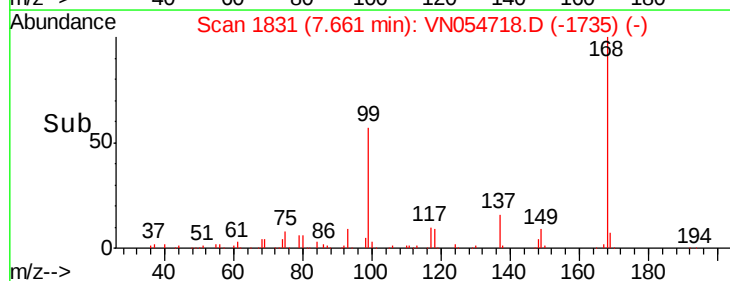
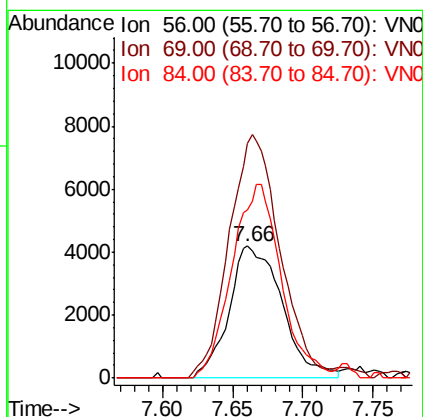
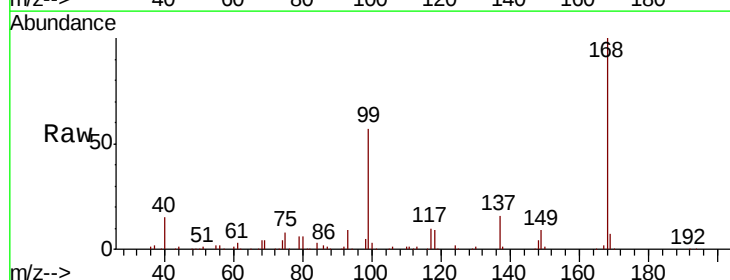
Tgt Ion: 56 Resp: 11042

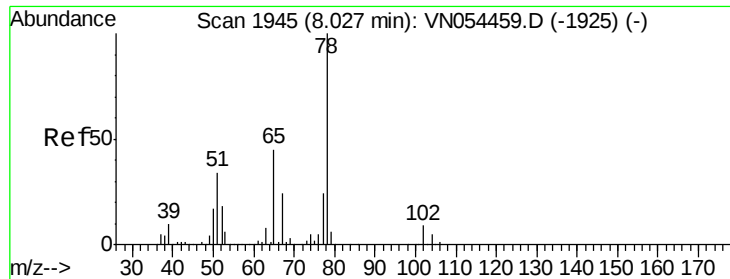
Ion Ratio Lower Upper

56 100

69 178.2 27.8 41.6#

84 127.1 74.6 111.8#

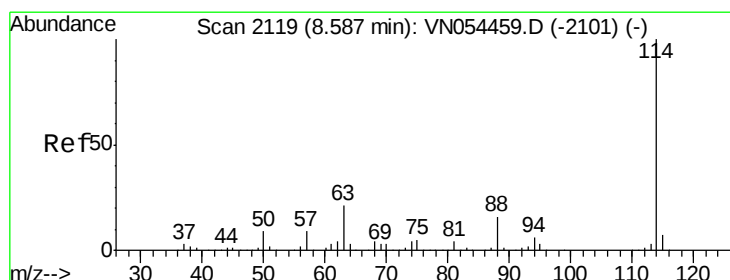
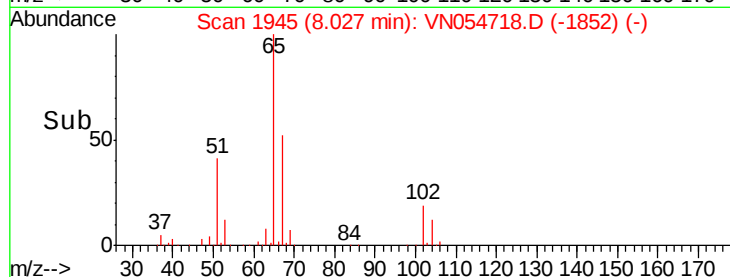
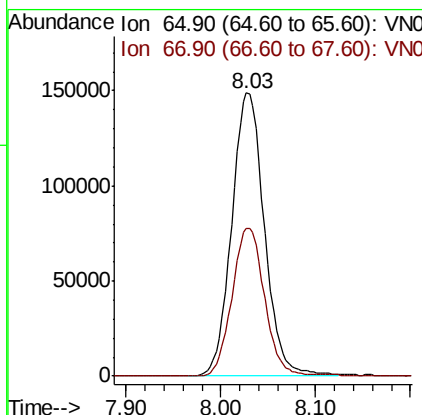
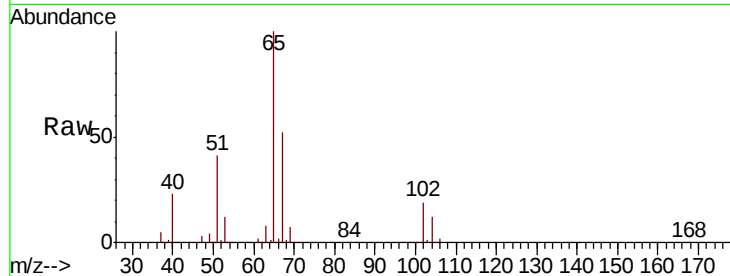




#33
 1,2-Dichloroethane-d4
 Concen: 54.289 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054718.D
 Acq: 27 Mar 2019 13:31

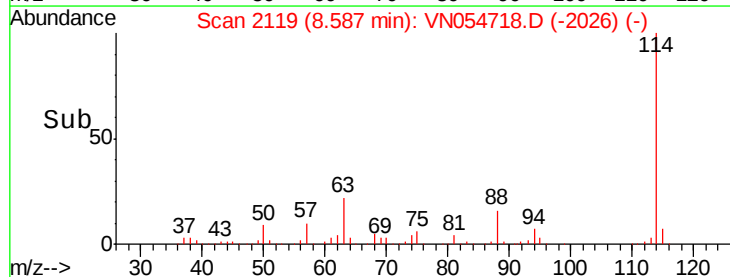
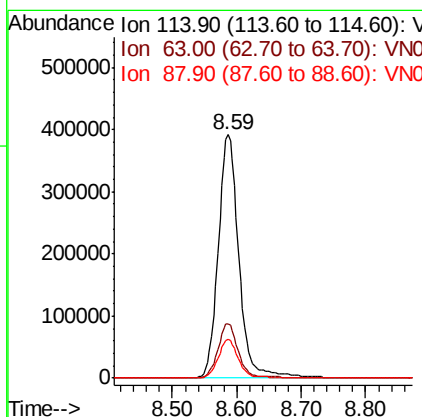
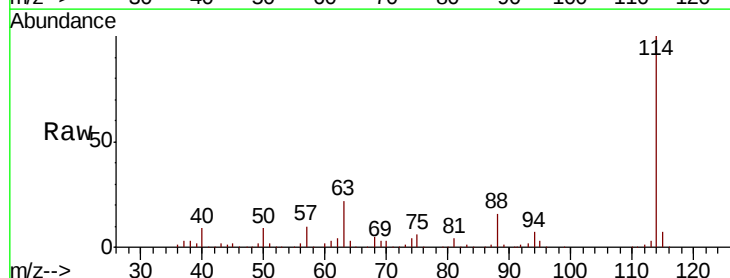
Instrument :
 MSVOA_N
 ClientSampleId :

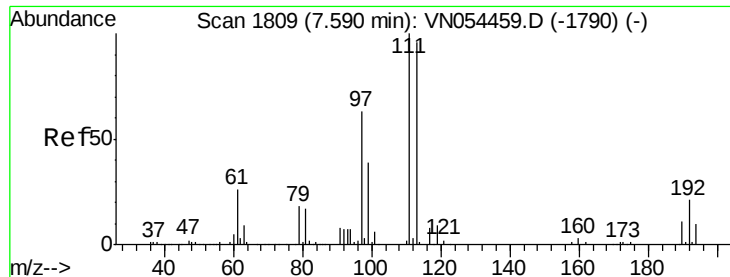
Tot Ion: 65 Resp: 357421
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054718.D
 Acq: 27 Mar 2019 13:31

Tgt Ion: 114 Resp: 877711
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 35.2
 88 15.9 0.0 30.2





#35

Dibromofluoromethane

Concen: 50.211 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054718.D

Acq: 27 Mar 2019 13:31

Instrument :
MSVOA_N
ClientSampled :

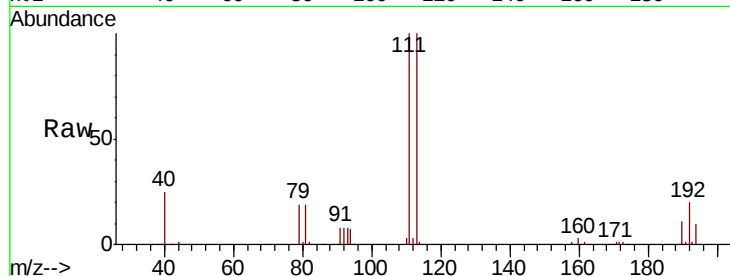
Tot Ion:113 Resp: 283927

Ion Ratio Lower Upper

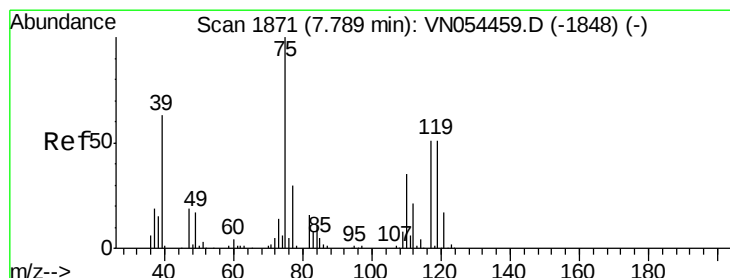
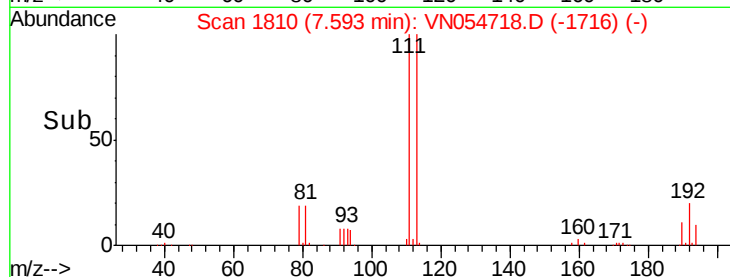
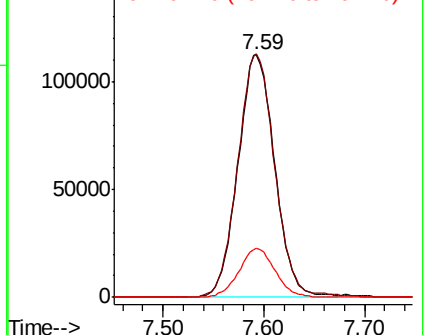
113 100

111 101.5 82.2 123.4

192 20.0 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: 4.967 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054718.D

Acq: 27 Mar 2019 13:31

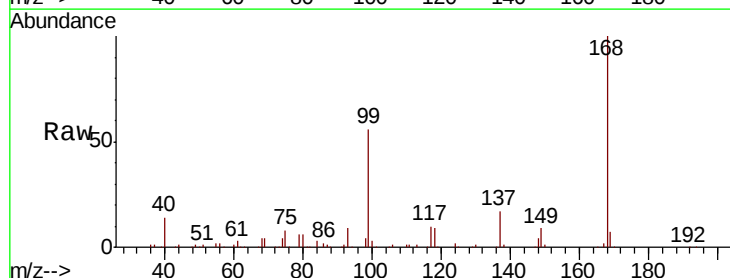
Tgt Ion: 75 Resp: 40766

Ion Ratio Lower Upper

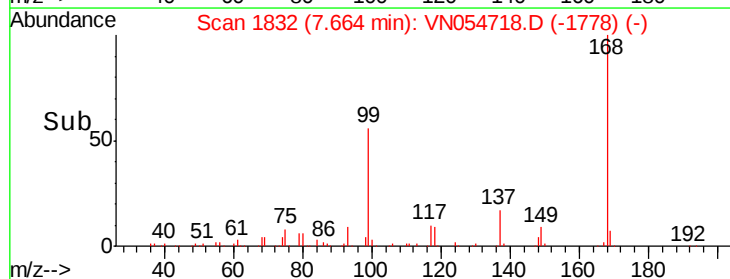
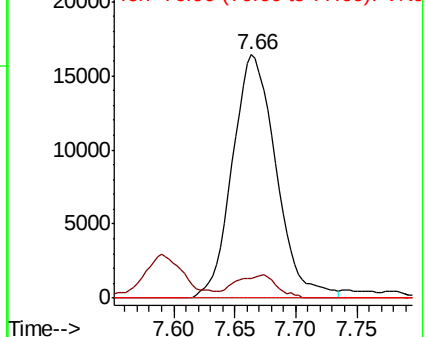
75 100

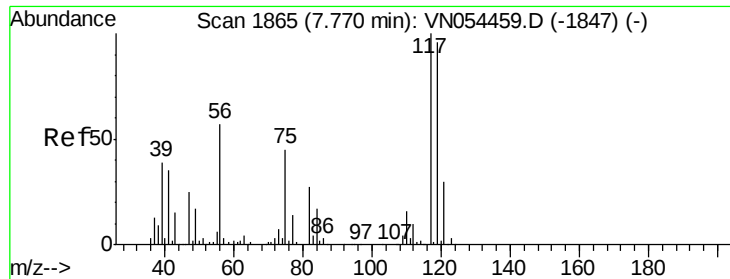
110 9.2 19.1 57.5#

77 0.0 25.0 37.4#



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





#38

Carbon Tetrachloride

Concen: 6.429 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054718.D

Acq: 27 Mar 2019 13:31

Instrument :

MSVOA_N

ClientSampleId :

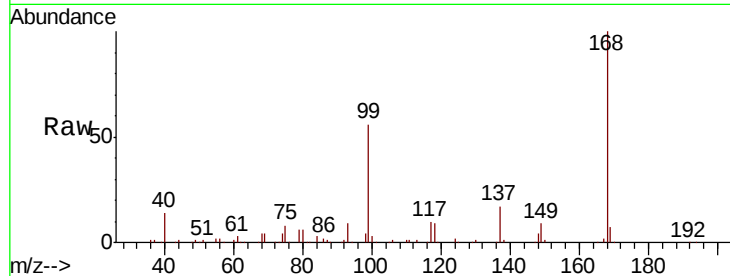
Tot Ion:117 Resp: 51275

Ion Ratio Lower Upper

117 100

119 4.0 76.3 114.5#

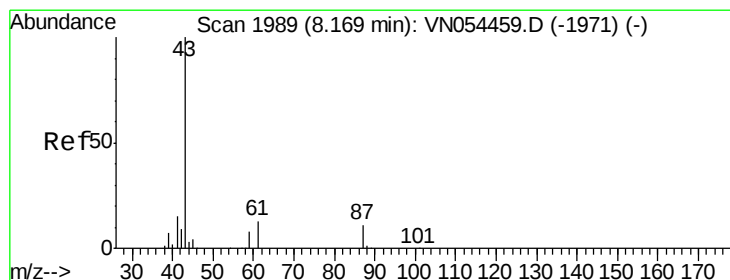
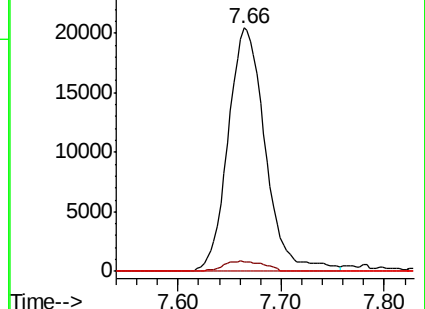
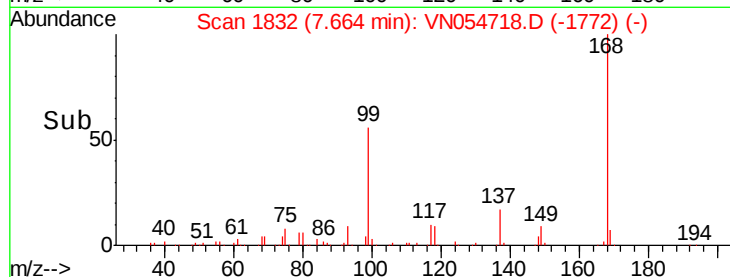
121 0.0 24.6 36.8#



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: 1.377 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054718.D

Acq: 27 Mar 2019 13:31

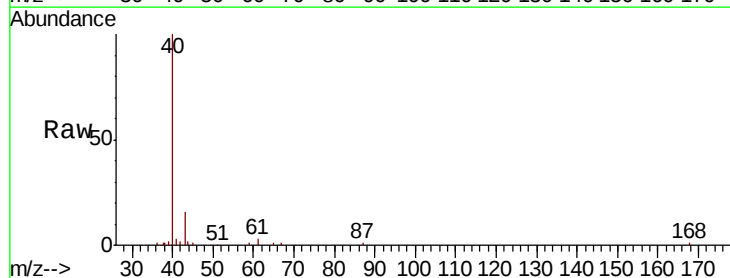
Tgt Ion: 43 Resp: 13573

Ion Ratio Lower Upper

43 100

61 18.4 15.8 23.8

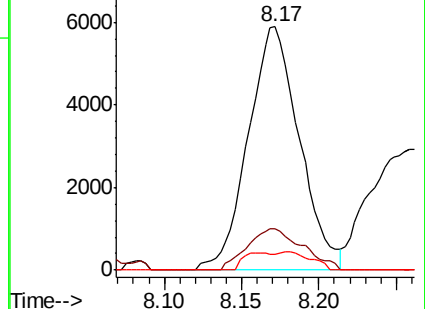
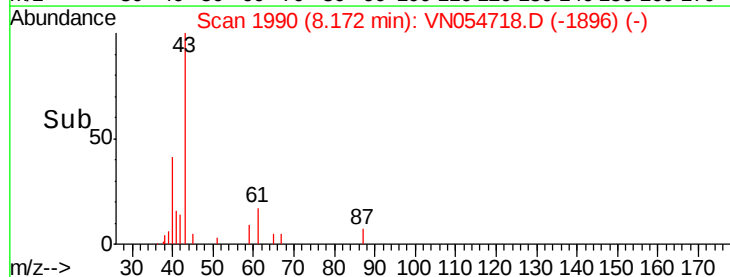
87 3.8 12.0 18.0#

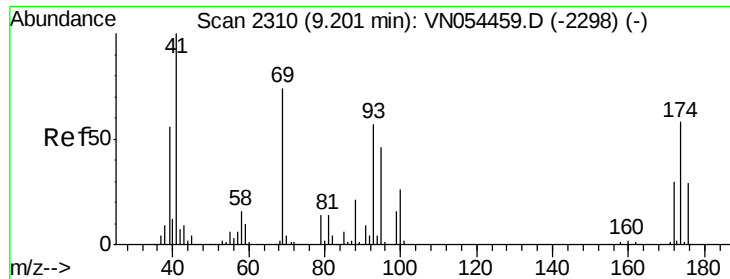


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

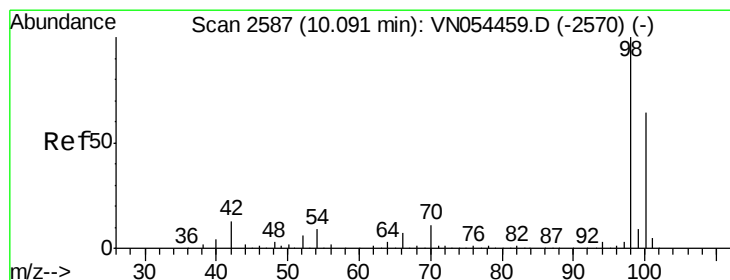
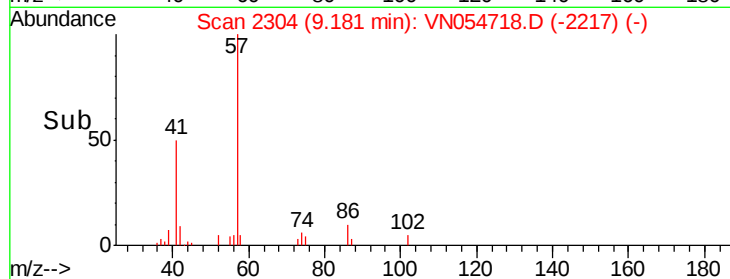
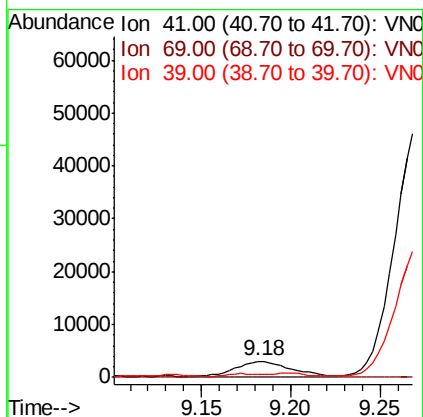
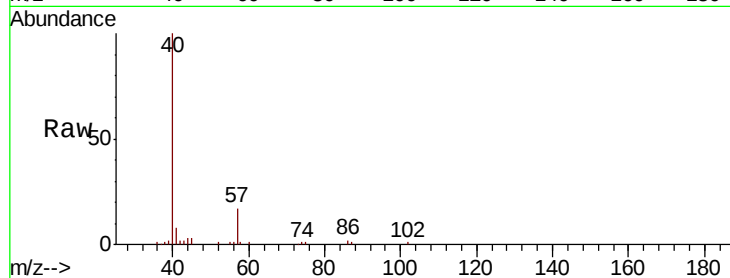




#48
Methvl methacrylate
Concen: 1.285 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN054718.D
Acq: 27 Mar 2019 13:31

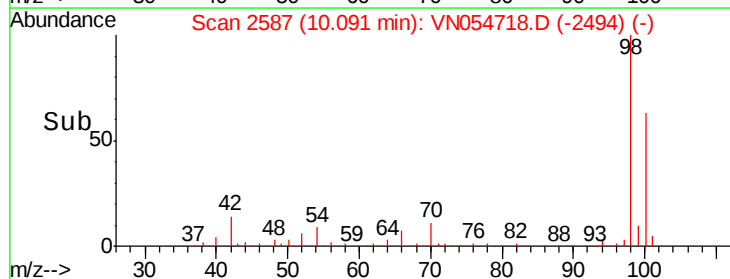
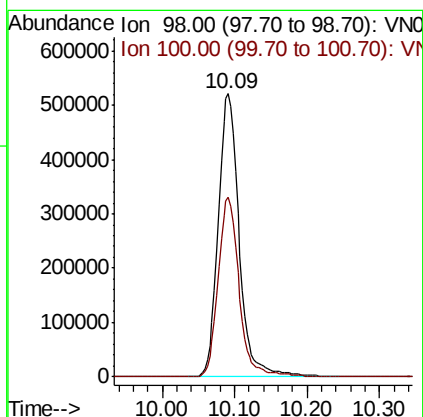
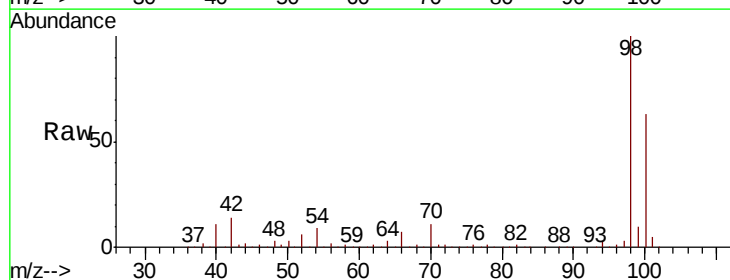
Instrument :
MSVOA_N
ClientSampled :

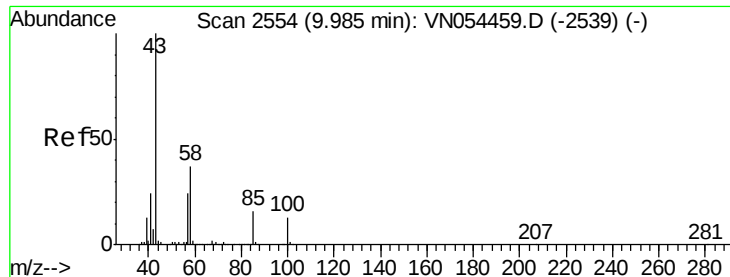
Tot Ion: 41 Resp: 6877
Ion Ratio Lower Upper
41 100
69 0.0 72.6 108.8#
39 0.0 47.5 71.3#



#50
Toluene-d8
Concen: 49.188 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054718.D
Acq: 27 Mar 2019 13:31

Tgt Ion: 98 Resp: 1045630
Ion Ratio Lower Upper
98 100
100 63.6 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 1.240 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN054718.D

Acq: 27 Mar 2019 13:31

Instrument :

MSVOA_N

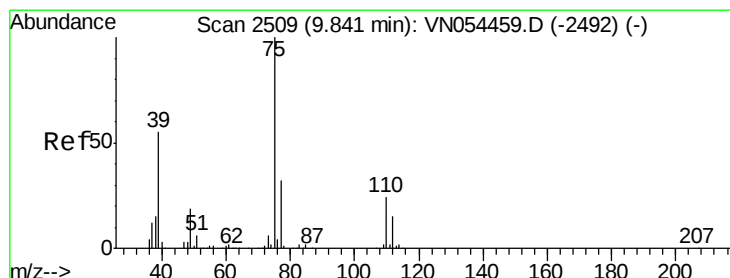
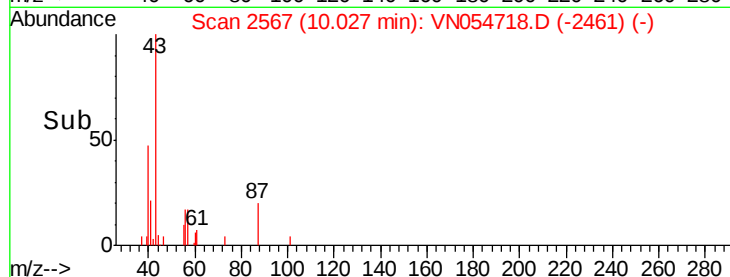
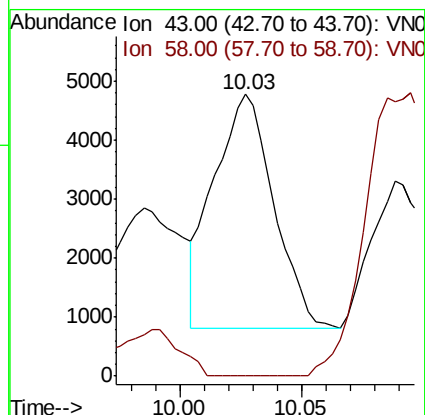
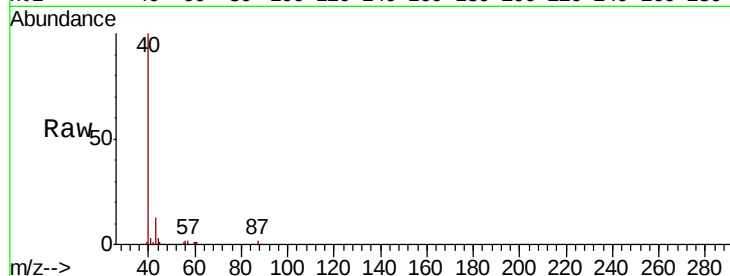
ClientSampled :

Tot Ion: 43 Resp: 6772

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.6#



#54

cis-1,3-Dichloropropene

Concen: 5.468 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054718.D

Acq: 27 Mar 2019 13:31

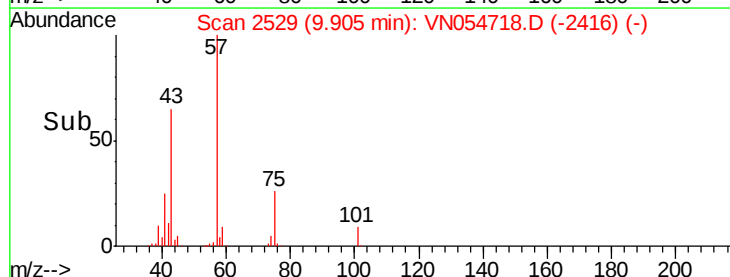
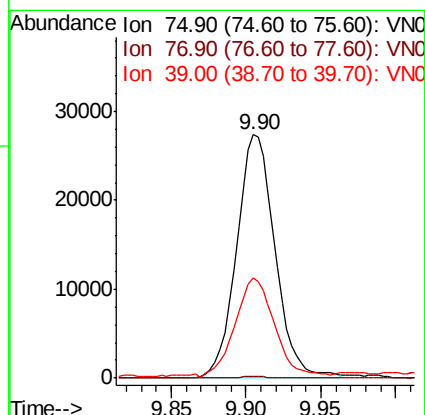
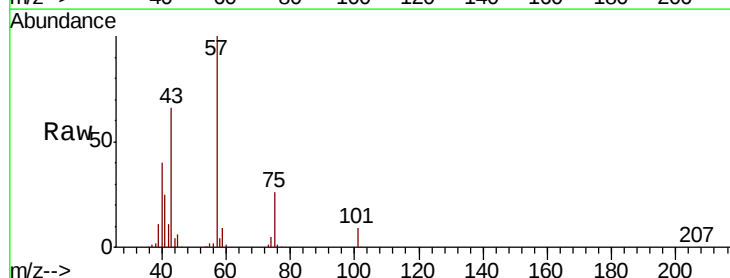
Tgt Ion: 75 Resp: 48914

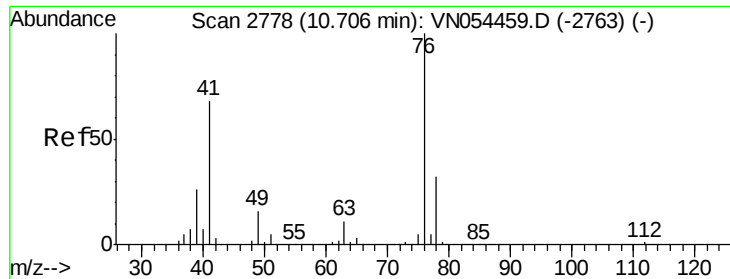
Ion Ratio Lower Upper

75 100

77 0.9 25.4 38.0#

39 39.6 37.2 55.8





#57

1,3-Dichloropropane

Concen: 0.828 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN054718.D

Acq: 27 Mar 2019 13:31

Instrument :

MSVOA_N

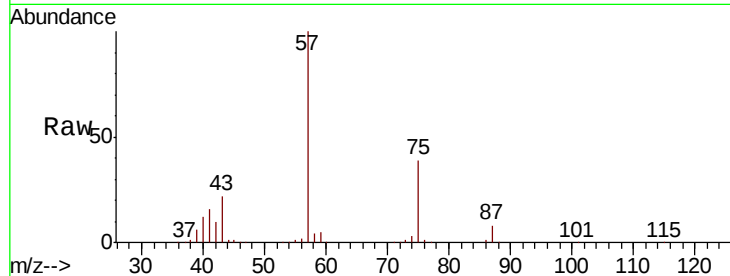
ClientSampled :

Tot Ion: 76 Resp: 7465

Ion Ratio Lower Upper

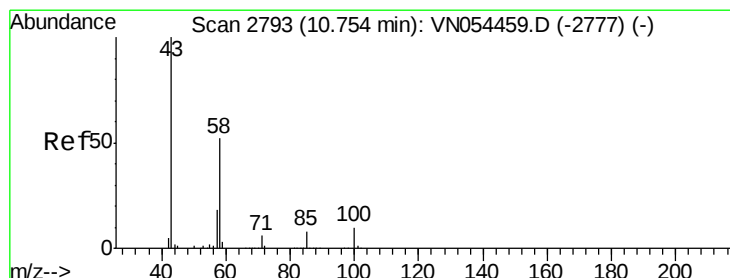
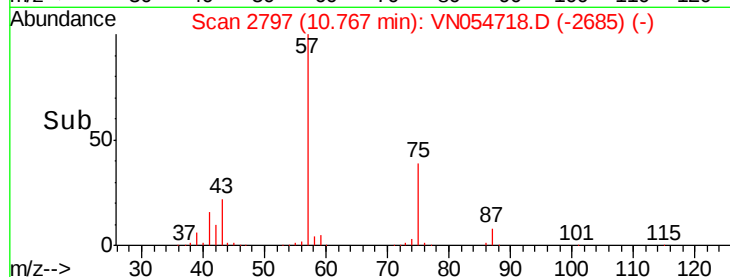
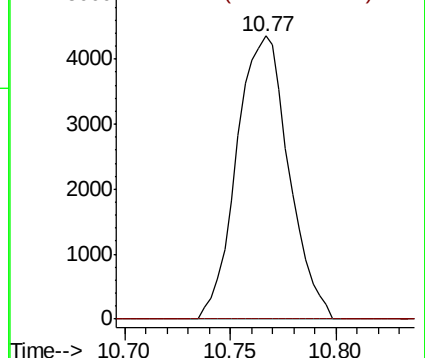
76 100

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: 35.856 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN054718.D

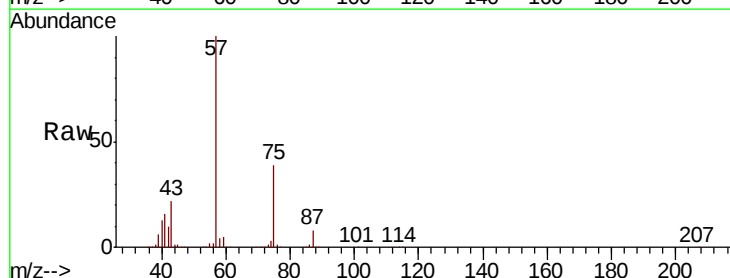
Acq: 27 Mar 2019 13:31

Tgt Ion: 43 Resp: 127949

Ion Ratio Lower Upper

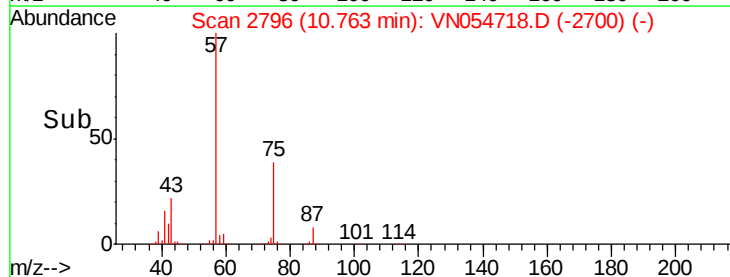
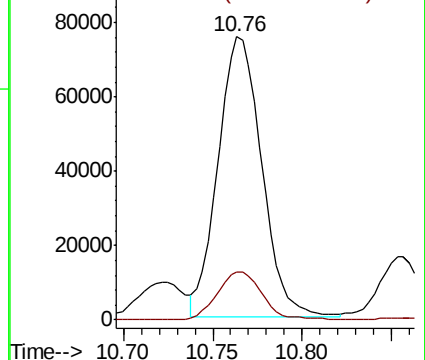
43 100

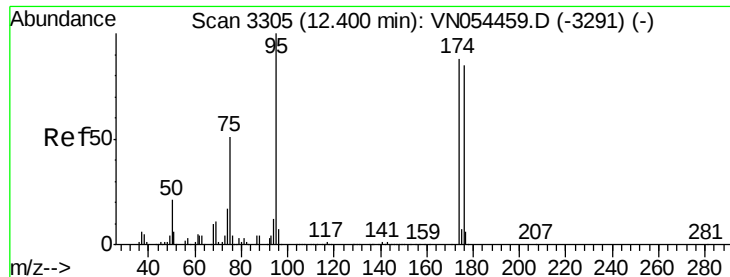
58 17.8 28.0 83.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 43.380 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054718.D

Acq: 27 Mar 2019 13:31

Instrument :

MSVOA_N

ClientSampleId :

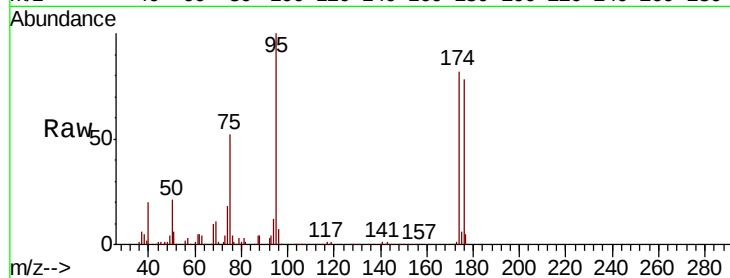
Tot Ion: 95 Resp: 313796

Ion Ratio Lower Upper

95 100

174 83.7 0.0 191.0

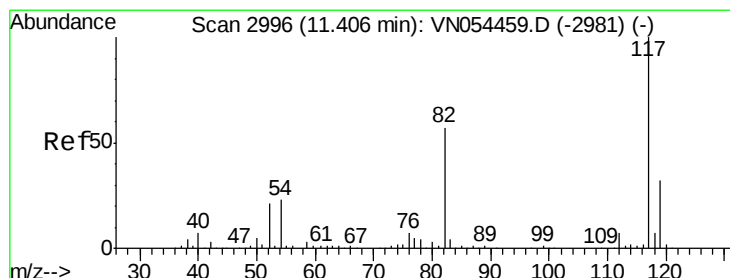
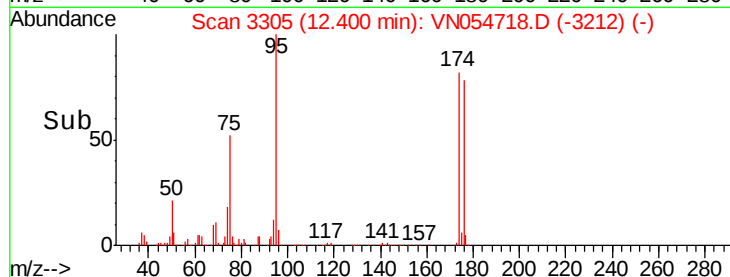
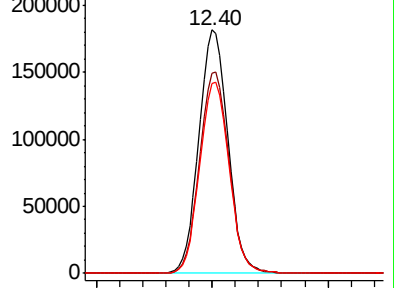
176 79.7 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054718.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN054718.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN054718.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN054718.D

Acq: 27 Mar 2019 13:31

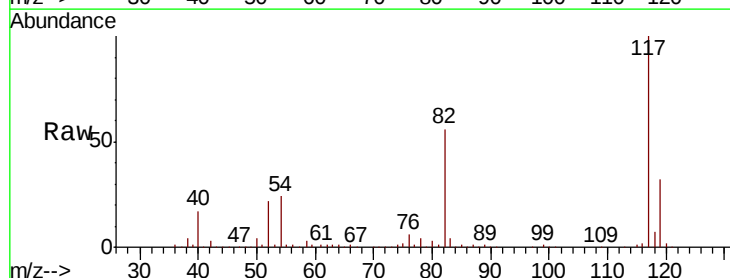
Tgt Ion: 117 Resp: 727416

Ion Ratio Lower Upper

117 100

82 55.8 40.0 60.0

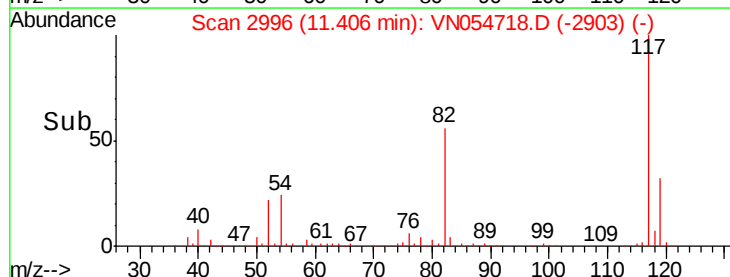
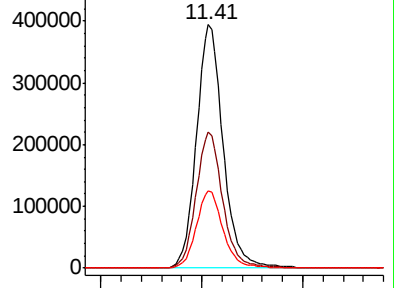
119 31.8 25.8 38.6

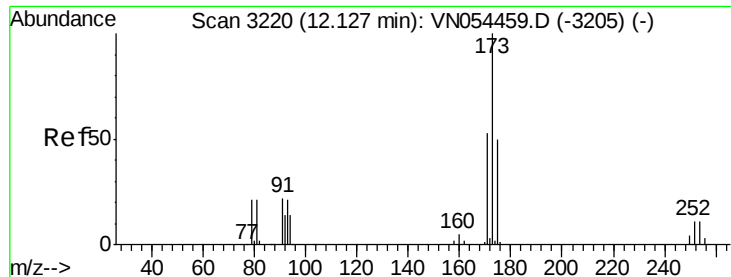


Abundance Ion 116.90 (116.60 to 117.60): VN054718.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN054718.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN054718.D (-2903) (-)





#71

Bromoform

Concen: 2.351 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN054718.D

Acq: 27 Mar 2019 13:31

Instrument :

MSVOA_N

ClientSampled :

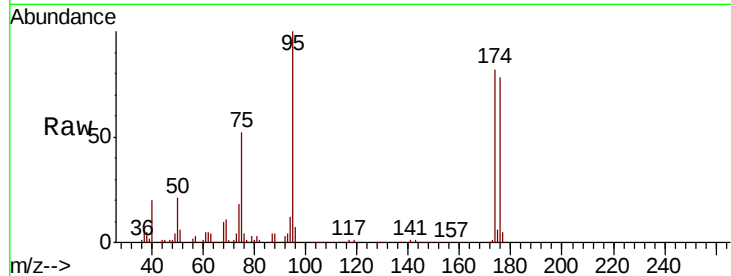
Tot Ion:173 Resp: 500

Ion Ratio Lower Upper

173 100

175 3475.6 24.4 73.2#

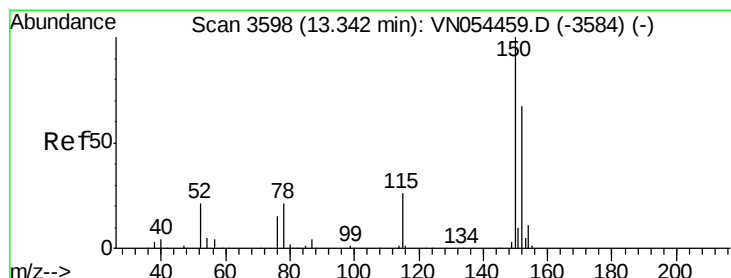
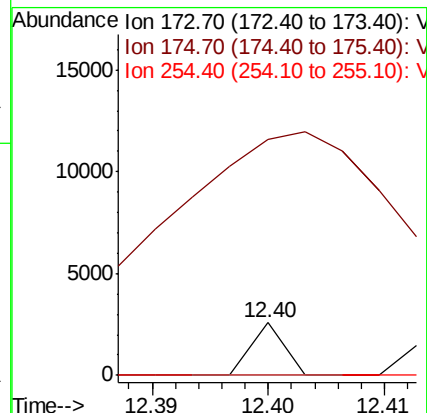
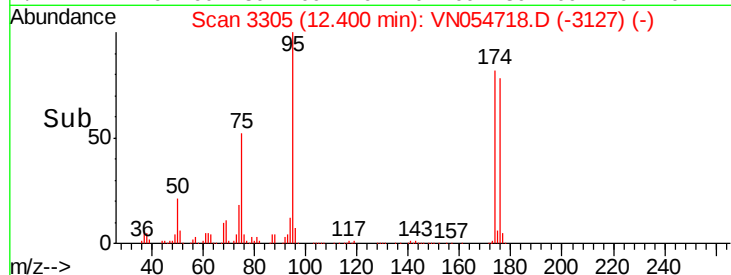
254 0.0 0.1 0.1#



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: VN054718.D

Acq: 27 Mar 2019 13:31

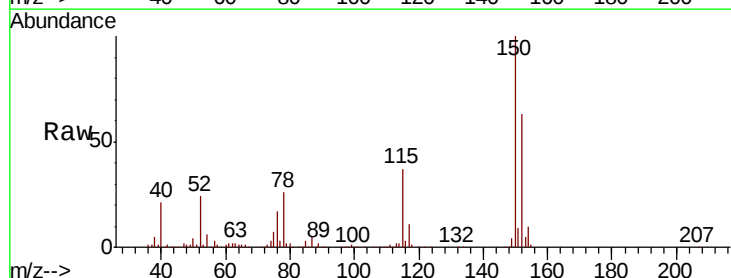
Tgt Ion:152 Resp: 254669

Ion Ratio Lower Upper

152 100

115 58.9 27.2 81.6

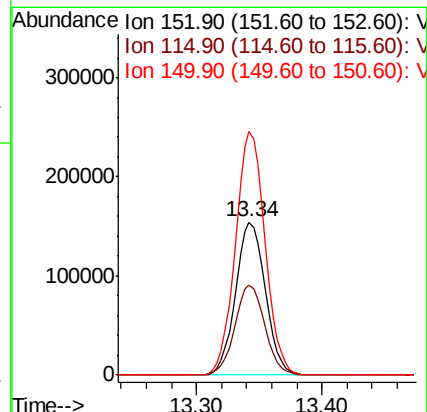
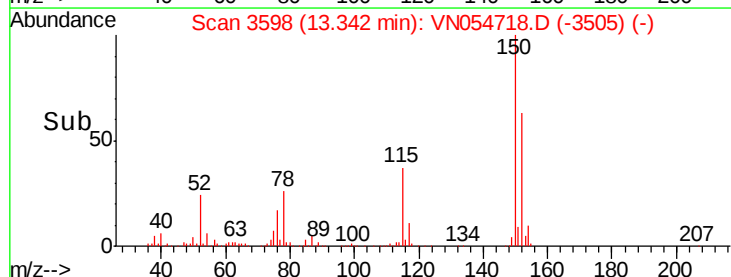
150 158.2 0.0 349.2

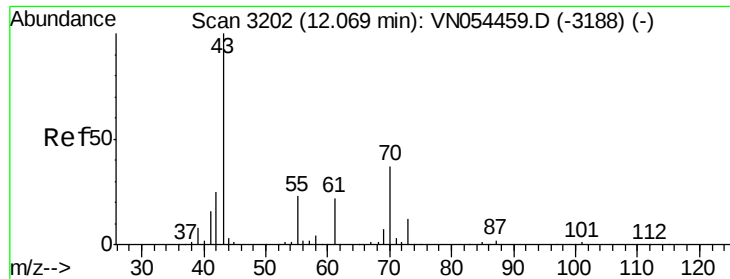


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

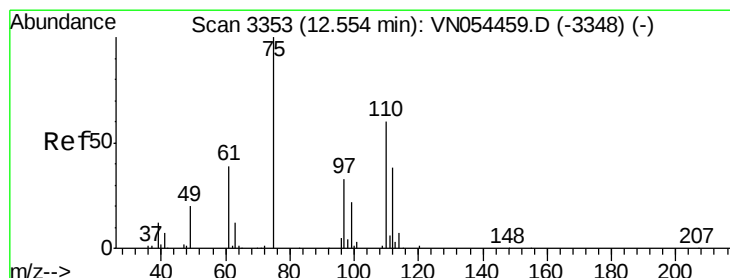
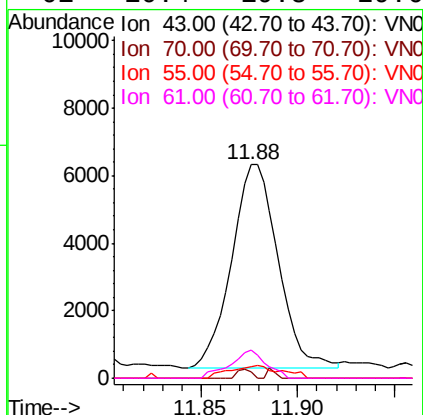
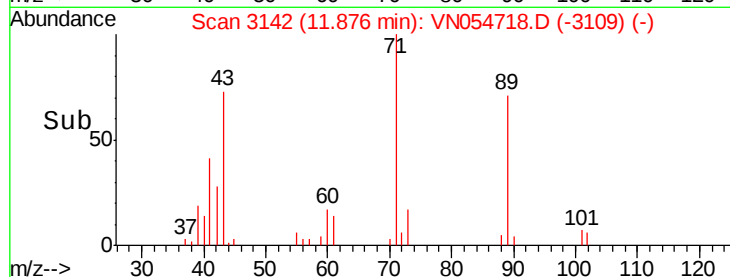
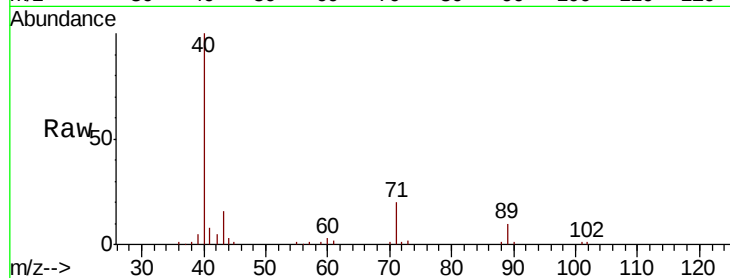




#74
N-amvl acetate
Concen: 1.714 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN054718.D
Acq: 27 Mar 2019 13:31

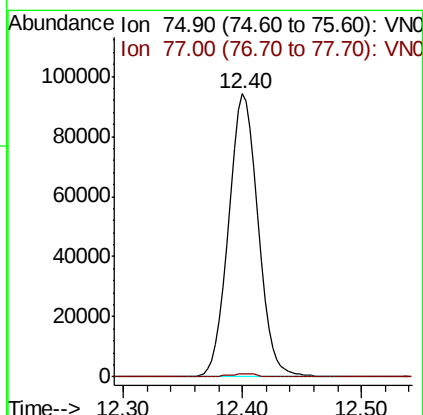
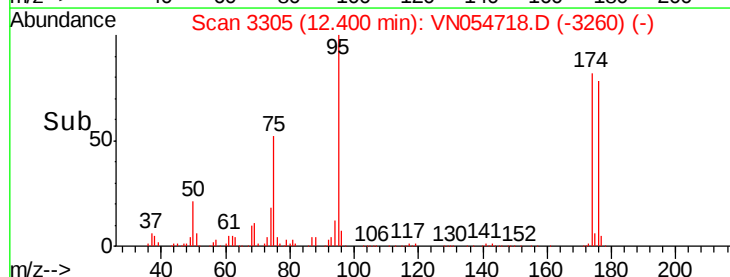
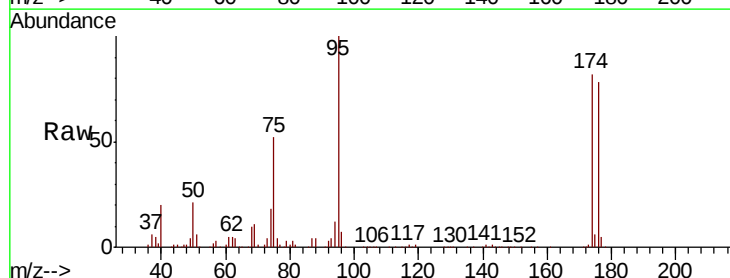
Instrument :
MSVOA_N
ClientSampleId :

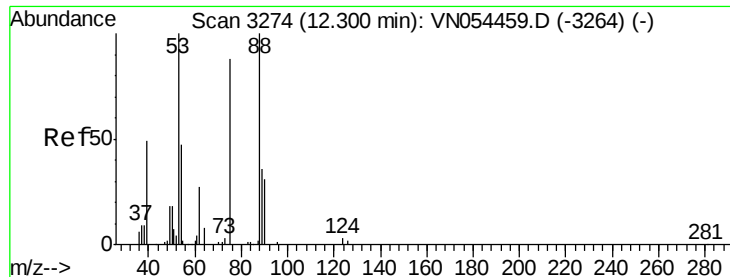
Tot Ion: 43 Resp: 10111
Ion Ratio Lower Upper
43 100
70 1.3 35.4 53.0#
55 6.9 19.8 29.6#
61 10.4 19.8 29.6#



#76
1,2,3-Trichloropropane
Concen: 40.086 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN054718.D
Acq: 27 Mar 2019 13:31

Tgt Ion: 75 Resp: 161994
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 132.595 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054718.D

Acq: 27 Mar 2019 13:31

Instrument :

MSVOA_N

ClientSampleId :

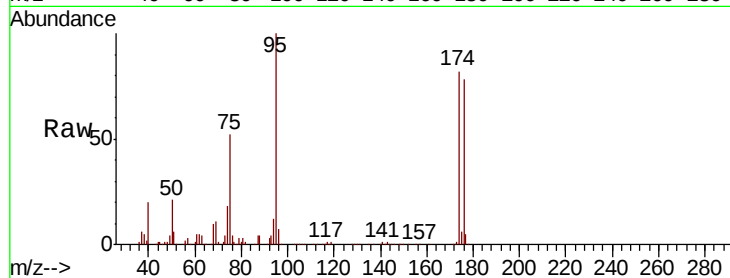
Tot Ion: 75 Resp: 161994

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

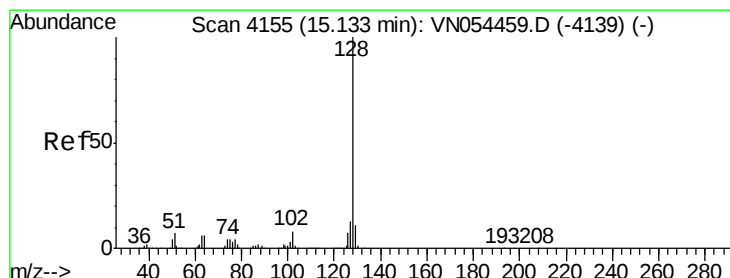
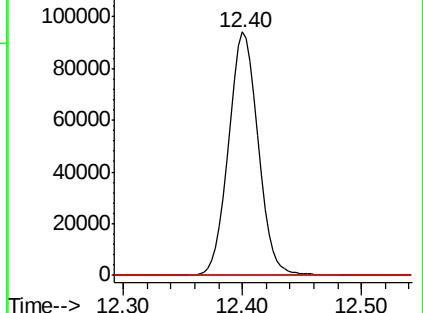
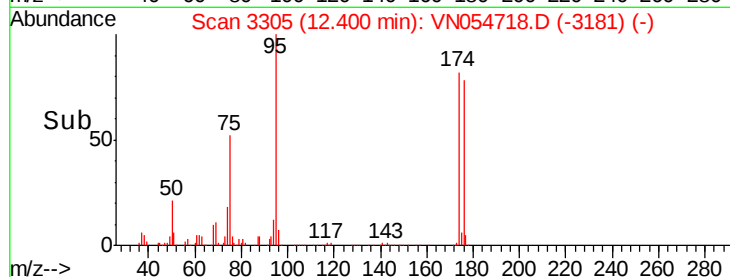
89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN054718.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN054718.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN054718.D (-3181) (-)



#95

Naphthalene

Concen: 0.731 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN054718.D

Acq: 27 Mar 2019 13:31

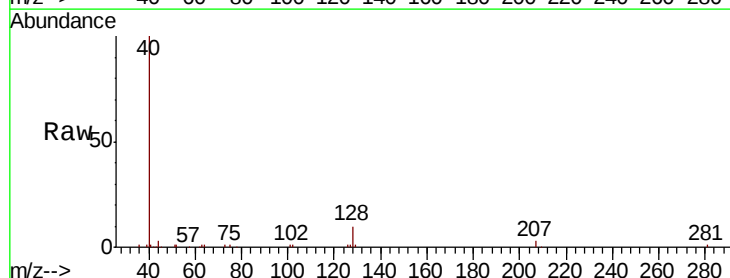
Tgt Ion:128 Resp: 6639

Ion Ratio Lower Upper

128 100

127 8.7 10.1 15.1#

129 9.1 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): VN054718.D (-4062) (-)

Ion 127.00 (126.70 to 127.70): VN054718.D (-4062) (-)

Ion 129.00 (128.70 to 129.70): VN054718.D (-4062) (-)

