

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032719\
 Data File : VN054716.D
 Acq On : 27 Mar 2019 12:38
 Operator : JC/SP
 Sample : K2086-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

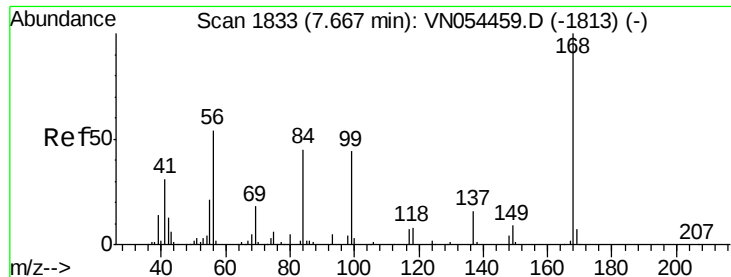
Quant Time: Mar 28 04:35:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	531914	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	861580	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	737345	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	262202	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	345156	52.17	ug/l	0.00
Spiked Amount			Recovery	=	104.34%	
35) Dibromofluoromethane	7.59	113	276887	49.88	ug/l	0.00
Spiked Amount			Recovery	=	99.76%	
50) Toluene-d8	10.09	98	1044724	50.07	ug/l	0.00
Spiked Amount			Recovery	=	100.14%	
62) 4-Bromofluorobenzene	12.40	95	316384	44.56	ug/l	0.00
Spiked Amount			Recovery	=	89.12%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.62	56	278	0.503	ug/l #	60
16) Acetone	3.82	43	12192	6.129	ug/l #	82
18) Methyl Acetate	4.33	43	1243	0.280	ug/l	95
20) Methylene Chloride	4.55	84	20815	3.550	ug/l #	83
25) 2-Butanone	6.86	43	1542	0.605	ug/l #	73
29) Tetrahydrofuran	7.24	42	1530	0.925	ug/l #	43
31) Cyclohexane	7.67	56	12033	Below Cal	#	29
36) 1,1-Dichloropropene	7.67	75	41752	5.183	ug/l #	48
38) Carbon Tetrachloride	7.66	117	51263	6.548	ug/l #	17
43) Isopropyl Acetate	8.17	43	15390	1.590	ug/l #	94
45) 1,2-Dichloropropane	9.27	63	1275	0.206	ug/l #	43
48) Methyl methacrylate	9.18	41	6708	1.277	ug/l #	11
49) 1,4-Dioxane	9.26	88	32	0.545	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	8737	1.629	ug/l #	36
52) Toluene	10.16	92	2941	0.208	ug/l	92
53) t-1,3-Dichloropropene	10.39	75	30	2.236	ug/l	94
54) cis-1,3-Dichloropropene	9.90	75	54340	6.188	ug/l #	72
57) 1,3-Dichloropropane	10.77	76	10010	1.131	ug/l #	43
59) 2-Hexanone	10.77	43	160869	45.925	ug/l #	47
71) Bromoform	12.40	173	1955	2.724	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	166288	39.966	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	166288	132.209	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: VN054716.D

Acq: 27 Mar 2019 12:38

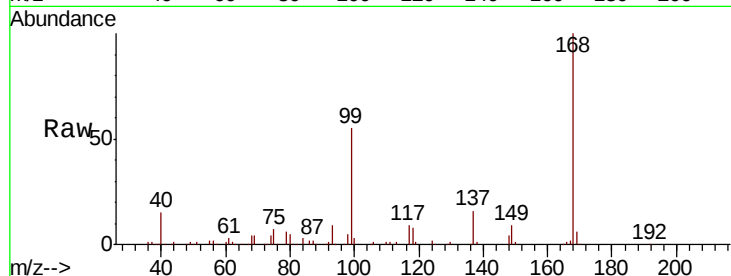
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 531914

Ion Ratio Lower Upper

168 100

99 55.5 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

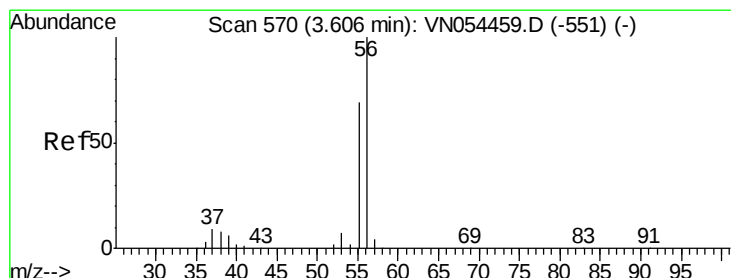
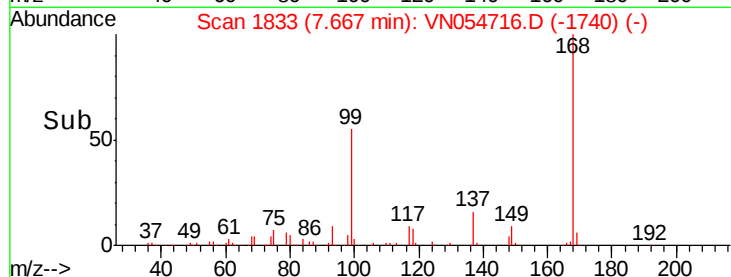
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 0.503 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN054716.D

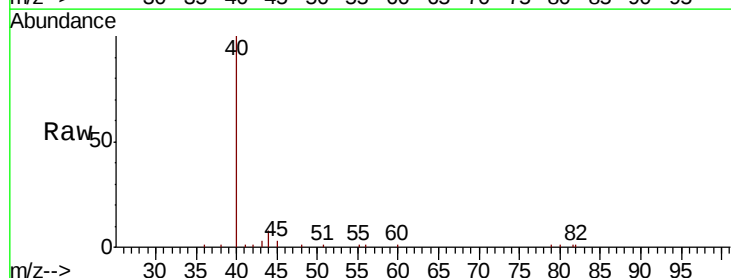
Acq: 27 Mar 2019 12:38

Tgt Ion: 56 Resp: 278

Ion Ratio Lower Upper

56 100

55 104.0 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.62

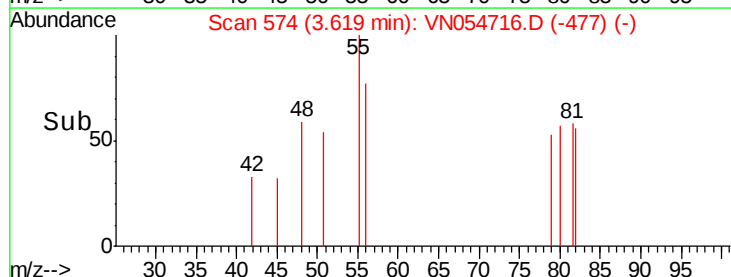
300

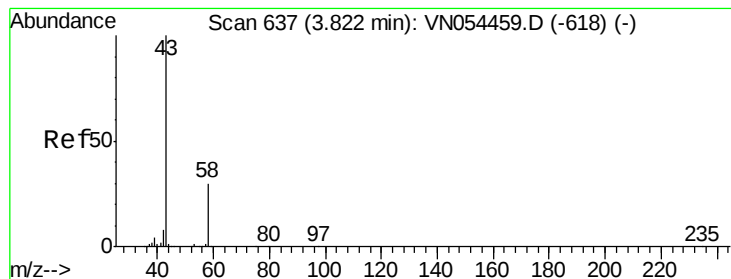
200

100

0

Time-->





#16

Acetone

Concen: 6.129 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN054716.D

Acq: 27 Mar 2019 12:38

Instrument :

MSVOA_N

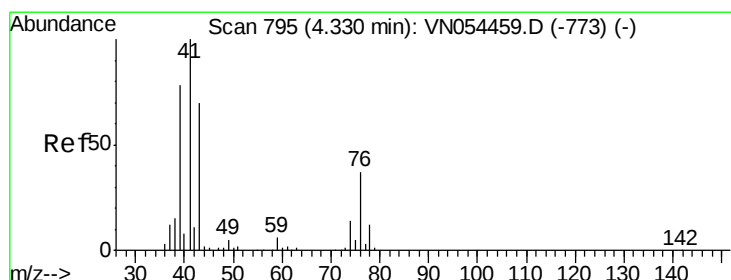
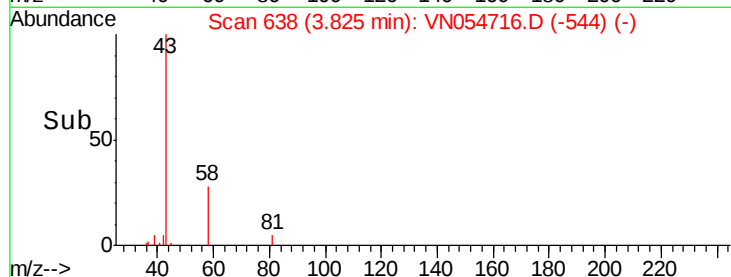
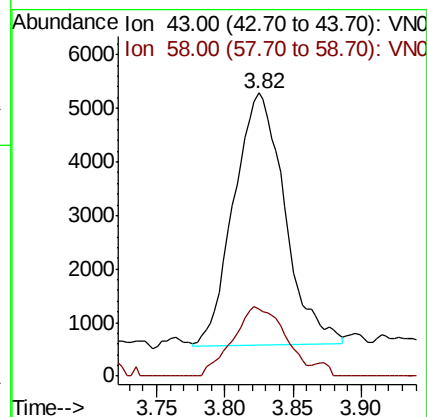
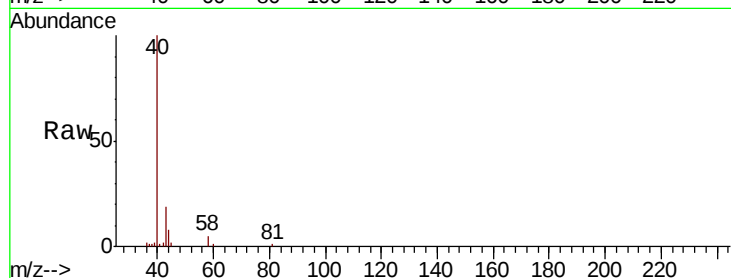
ClientSampleId :

Tot Ion: 43 Resp: 12192

Ion Ratio Lower Upper

43 100

58 26.7 29.9 44.9#



#18

Methyl Acetate

Concen: 0.280 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN054716.D

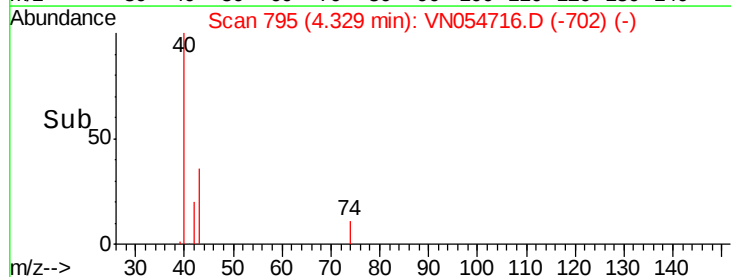
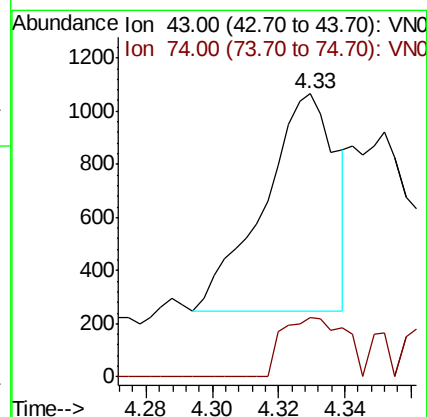
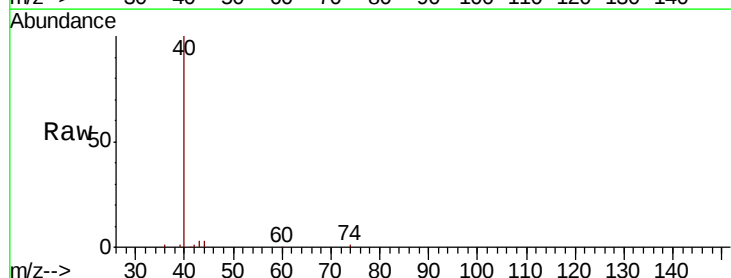
Acq: 27 Mar 2019 12:38

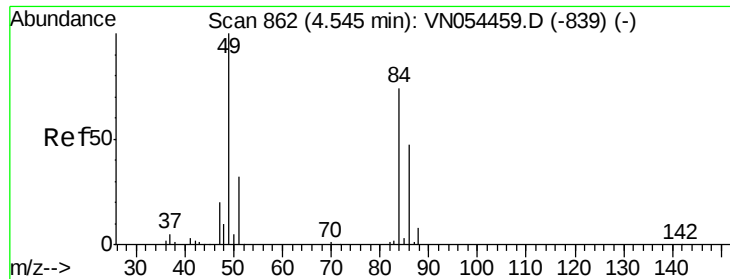
Tgt Ion: 43 Resp: 1243

Ion Ratio Lower Upper

43 100

74 23.7 20.8 31.2

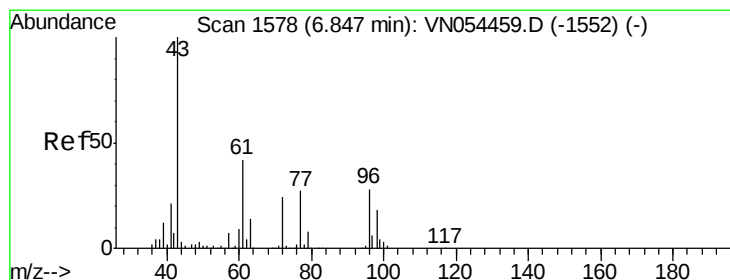
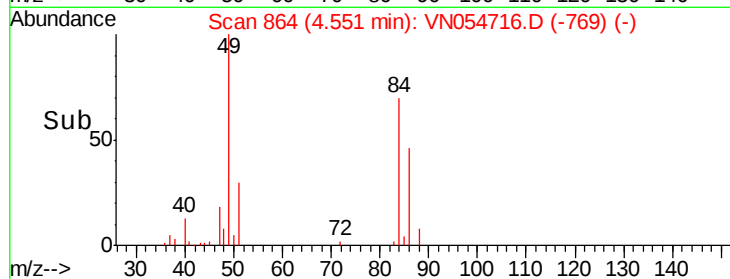
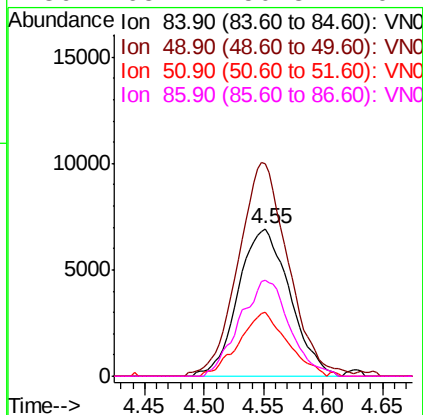
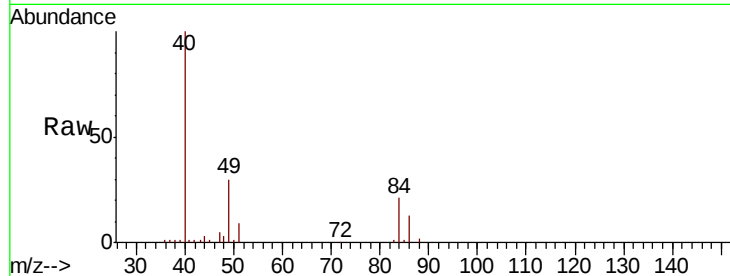




#20
Methvlene Chloride
Concen: 3.550 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.01 min
Lab File: VN054716.D
Acq: 27 Mar 2019 12:38

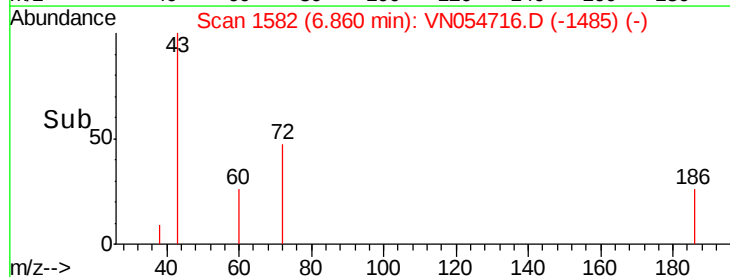
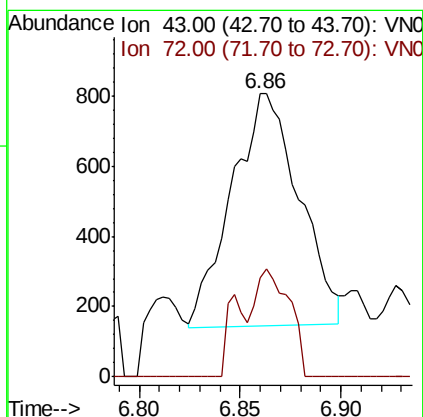
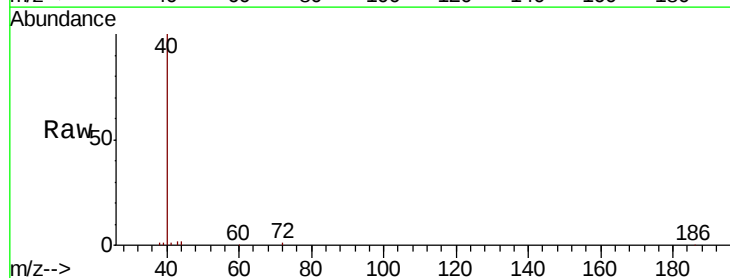
Instrument :
MSVOA_N
ClientSampled :

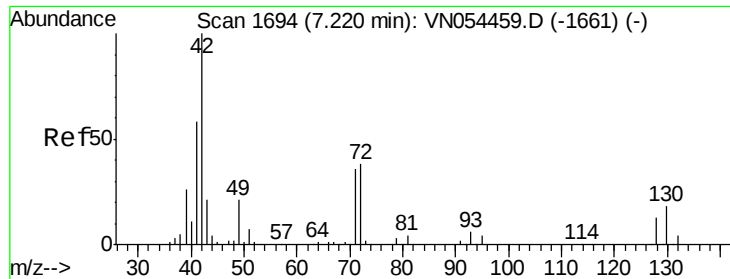
Tot Ion: 84 Resp: 20815
Ion Ratio Lower Upper
84 100
49 141.1 89.7 134.5#
51 43.1 28.2 42.4#
86 65.4 50.8 76.2



#25
2-Butanone
Concen: 0.605 ug/l
RT: 6.86 min Scan# 1582
Delta R.T. 0.01 min
Lab File: VN054716.D
Acq: 27 Mar 2019 12:38

Tgt Ion: 43 Resp: 1542
Ion Ratio Lower Upper
43 100
72 43.1 23.0 34.6#





#29

Tetrahydrofuran

Concen: 0.925 ug/l

RT: 7.24 min Scan# 1699

Delta R.T. 0.02 min

Lab File: VN054716.D

Acq: 27 Mar 2019 12:38

Instrument :

MSVOA_N

ClientSampleId :

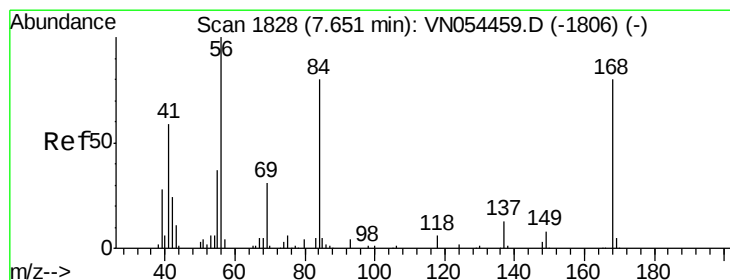
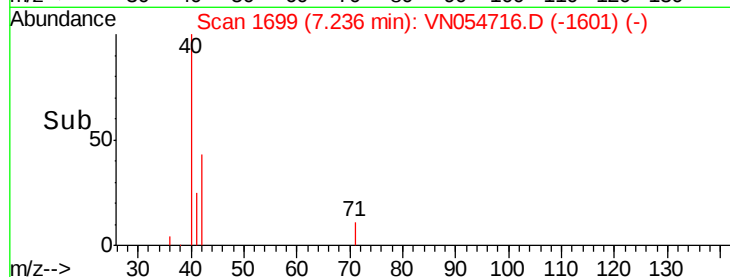
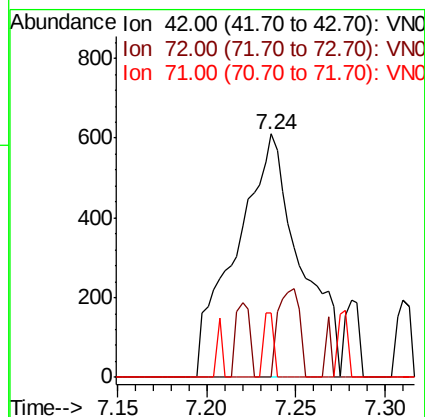
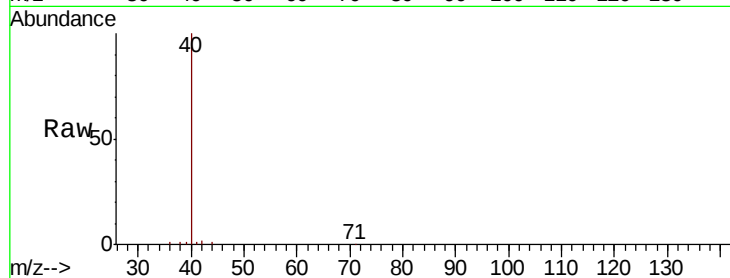
Tot Ion: 42 Resp: 1530

Ion Ratio Lower Upper

42 100

72 12.2 37.8 56.6#

71 4.1 36.2 54.2#



#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN054716.D

Acq: 27 Mar 2019 12:38

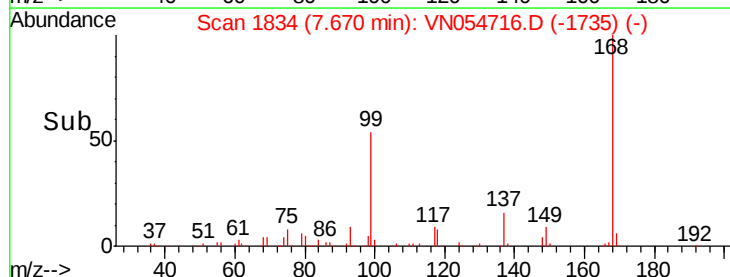
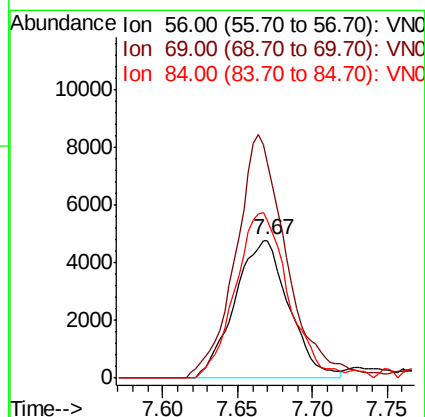
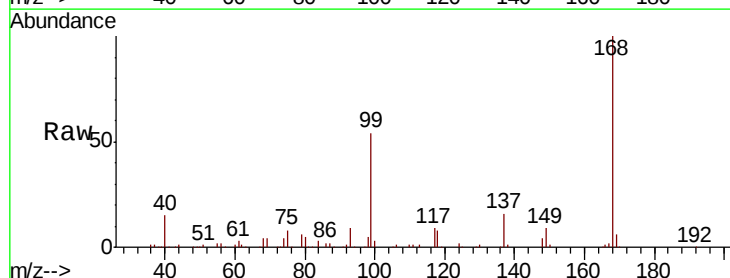
Tgt Ion: 56 Resp: 12033

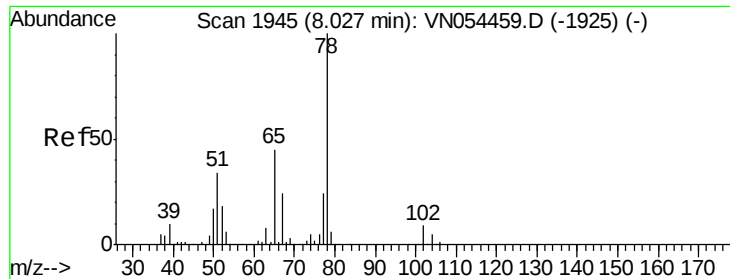
Ion Ratio Lower Upper

56 100

69 152.3 27.8 41.6#

84 114.6 74.6 111.8#

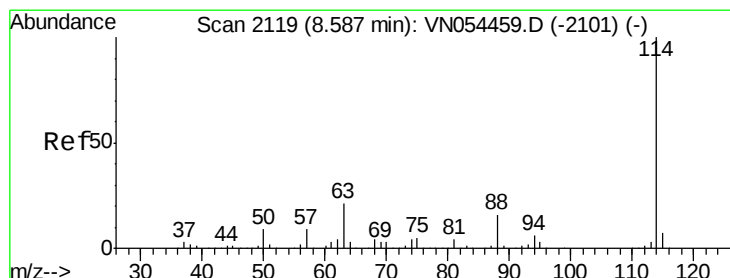
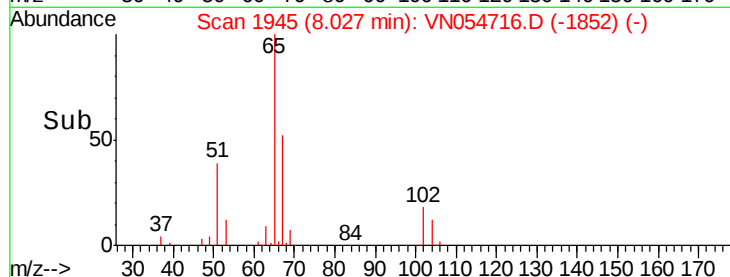
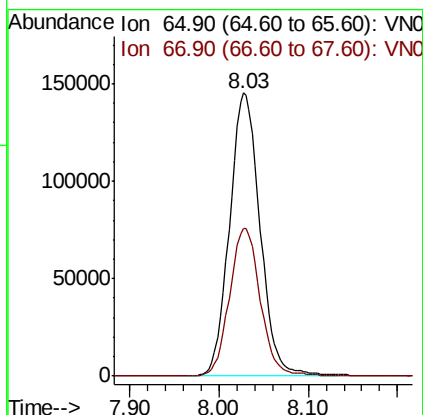
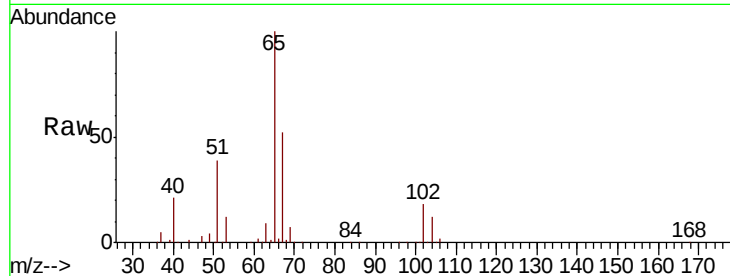




#33
 1,2-Dichloroethane-d4
 Concen: 52.169 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054716.D
 Acq: 27 Mar 2019 12:38

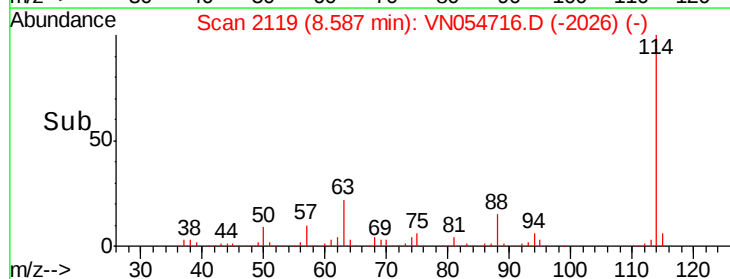
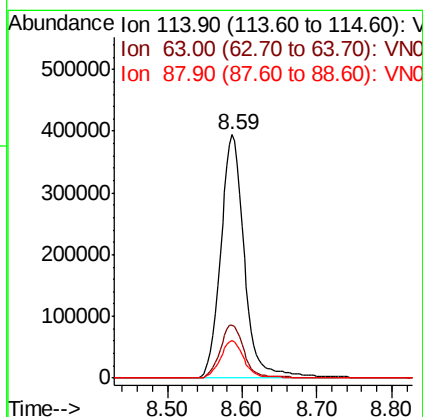
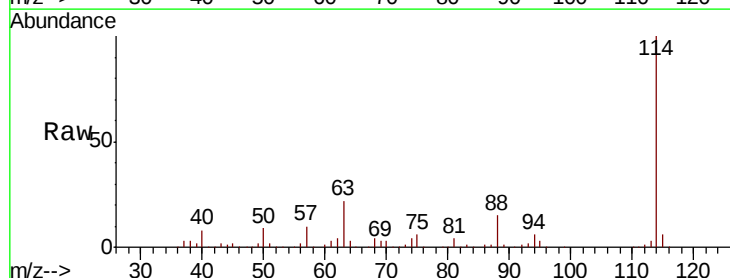
Instrument :
 MSVOA_N
 ClientSampleId :

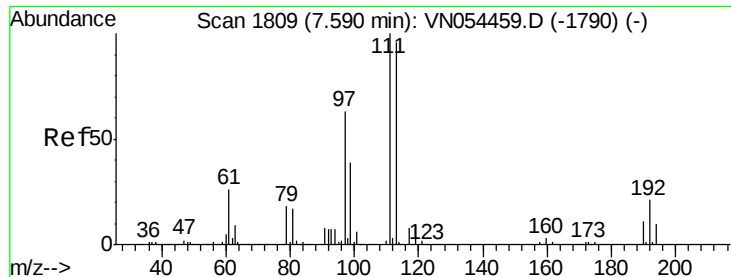
Tot Ion: 65 Resp: 345156
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054716.D
 Acq: 27 Mar 2019 12:38

Tgt Ion: 114 Resp: 861580
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 35.2
 88 15.3 0.0 30.2





#35

Dibromofluoromethane

Concen: 49.883 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054716.D

Acq: 27 Mar 2019 12:38

Instrument :
MSVOA_N
ClientSampled :

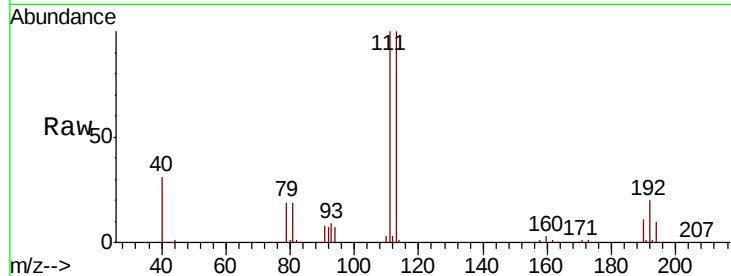
Tot Ion:113 Resp: 276887

Ion Ratio Lower Upper

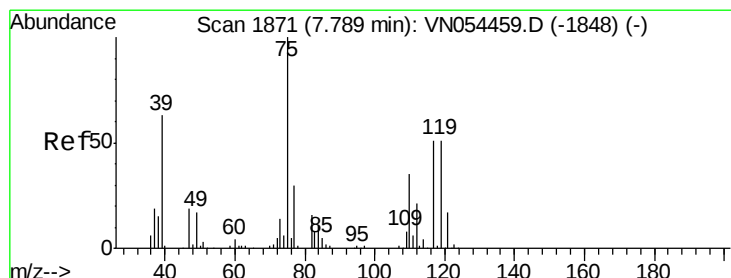
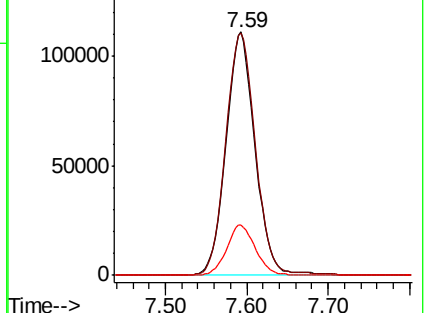
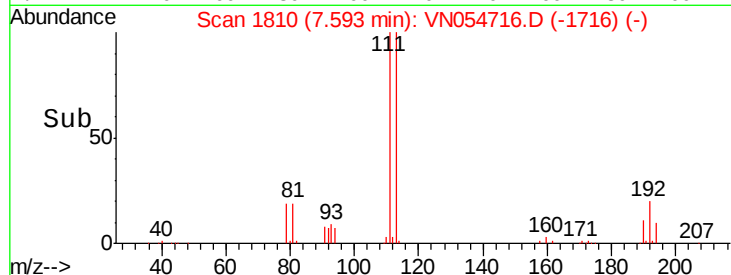
113 100

111 102.4 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: 5.183 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.12 min

Lab File: VN054716.D

Acq: 27 Mar 2019 12:38

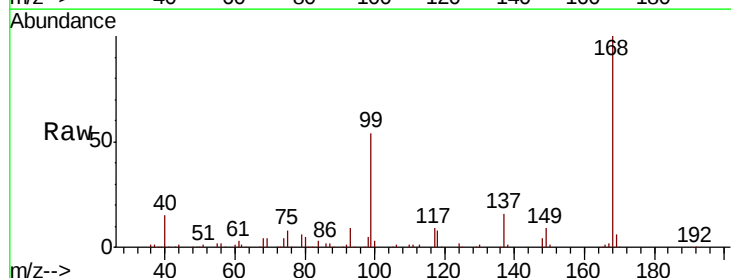
Tgt Ion: 75 Resp: 41752

Ion Ratio Lower Upper

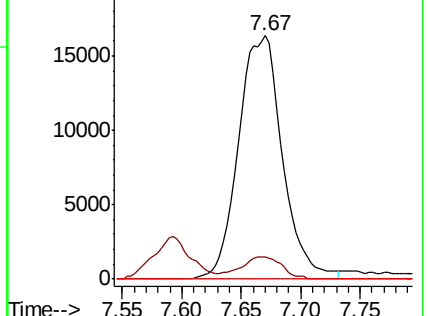
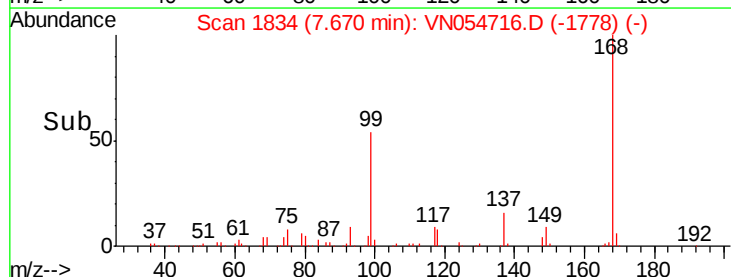
75 100

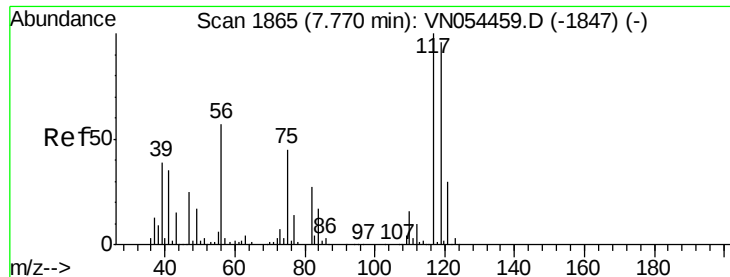
110 8.7 19.1 57.5#

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: 6.548 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054716.D

Acq: 27 Mar 2019 12:38

Instrument :

MSVOA_N

ClientSampleId :

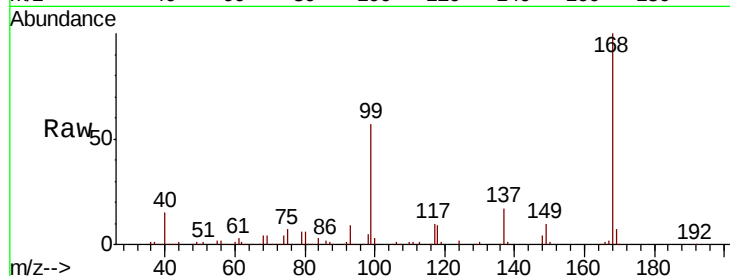
Tot Ion:117 Resp: 51263

Ion Ratio Lower Upper

117 100

119 5.9 76.3 114.5#

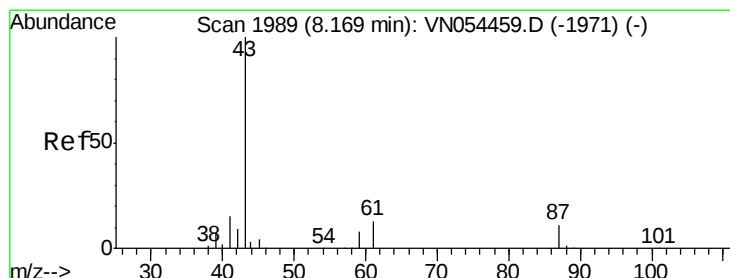
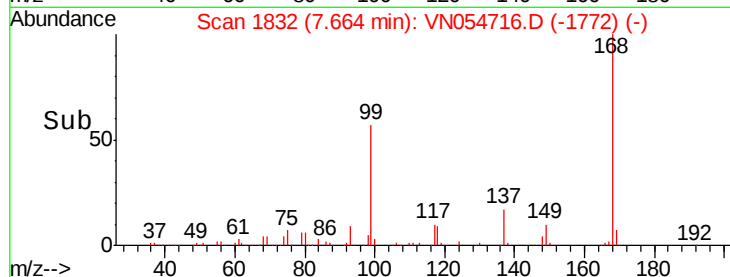
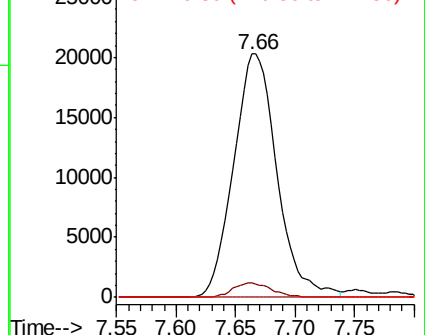
121 0.0 24.6 36.8#



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: 1.590 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. -0.00 min

Lab File: VN054716.D

Acq: 27 Mar 2019 12:38

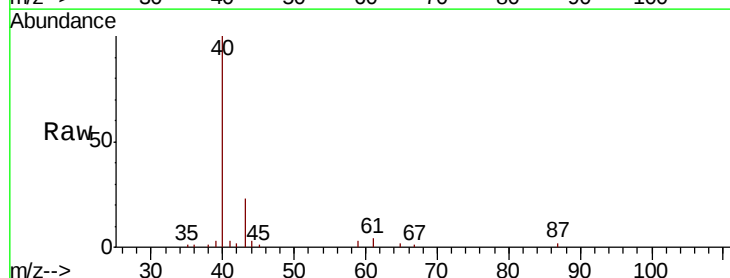
Tgt Ion: 43 Resp: 15390

Ion Ratio Lower Upper

43 100

61 20.0 15.8 23.8

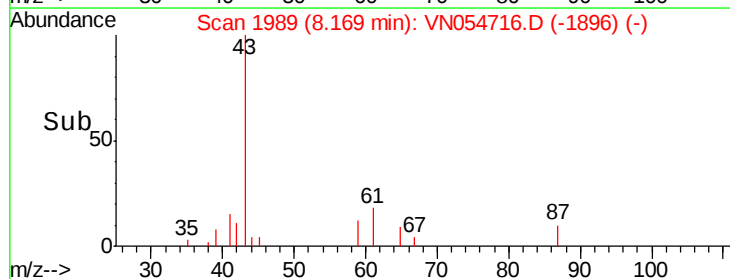
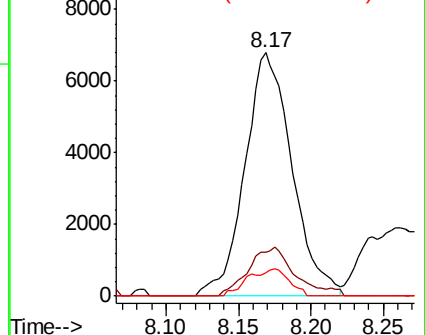
87 9.8 12.0 18.0#

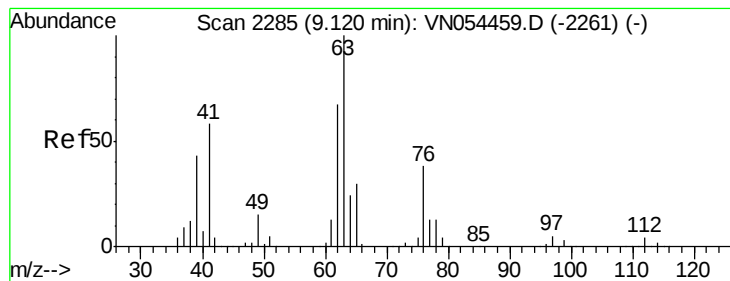


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.206 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN054716.D

Acq: 27 Mar 2019 12:38

Instrument :

MSVOA_N

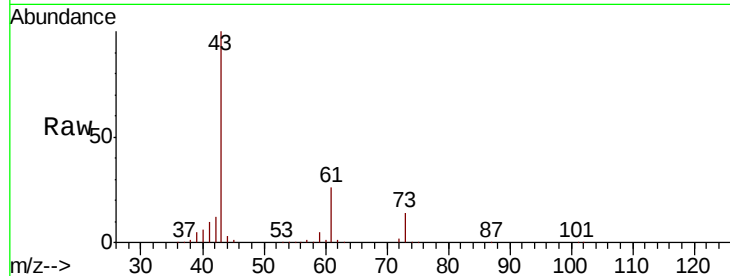
ClientSampleId :

Tot Ion: 63 Resp: 1275

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

800

600

400

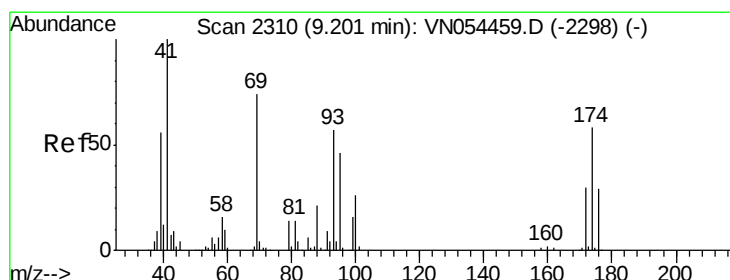
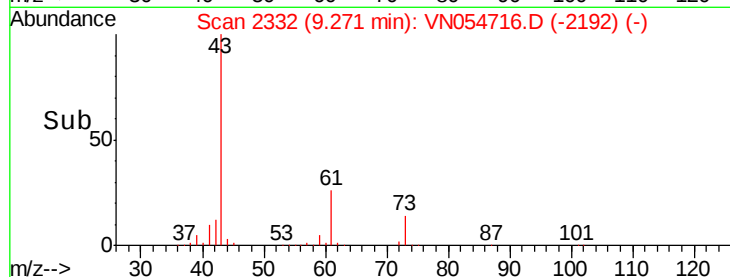
200

0

9.25

9.30

Time-->



#48

Methyl methacrylate

Concen: 1.277 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. -0.02 min

Lab File: VN054716.D

Acq: 27 Mar 2019 12:38

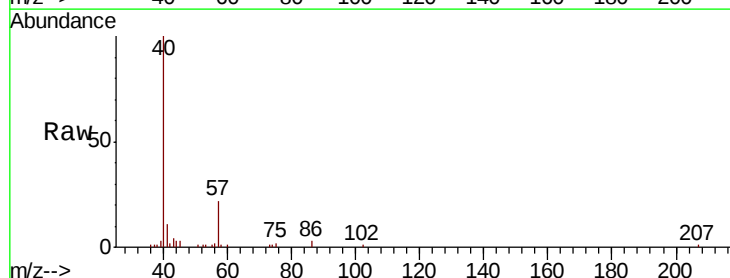
Tgt Ion: 41 Resp: 6708

Ion Ratio Lower Upper

41 100

69 0.0 72.6 108.8#

39 0.0 47.5 71.3#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

80000

60000

40000

20000

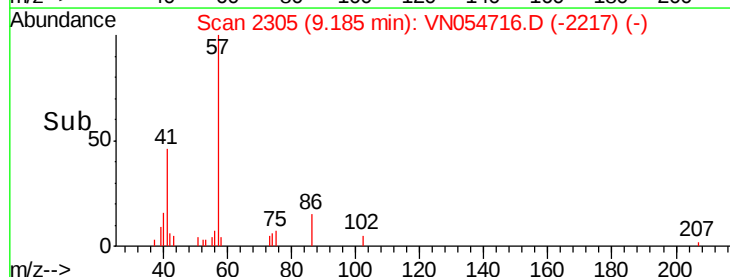
0

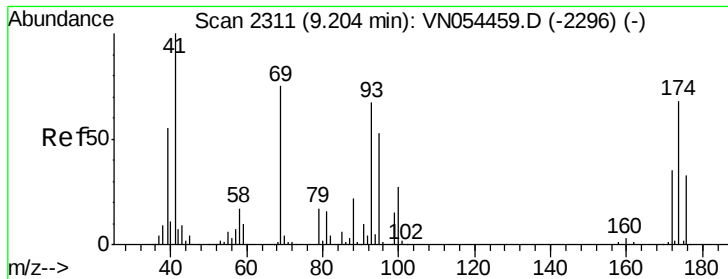
9.15

9.20

9.25

Time-->





#49

1,4-Dioxane

Concen: 0.545 ug/l

RT: 9.26 min Scan# 2329

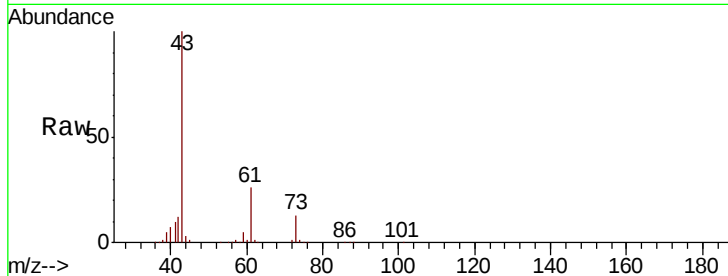
Delta R.T. 0.06 min

Lab File: VN054716.D

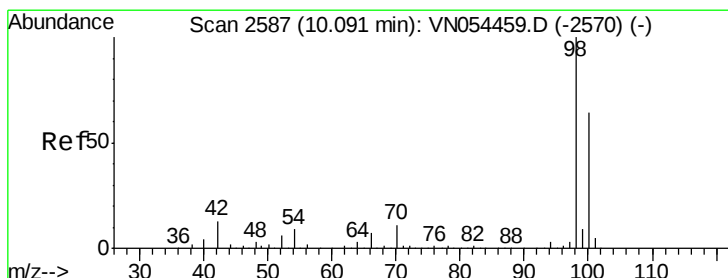
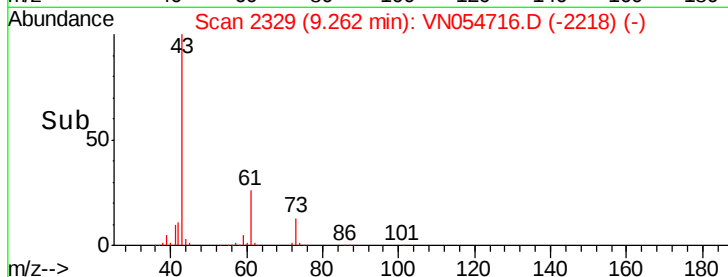
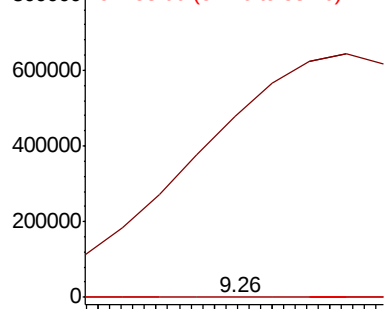
Acq: 27 Mar 2019 12:38

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 88 Resp: 32
Ion Ratio Lower Upper
88 100
43 3937243.8 24.1 36.1#
58 16756.3 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: 50.065 ug/l

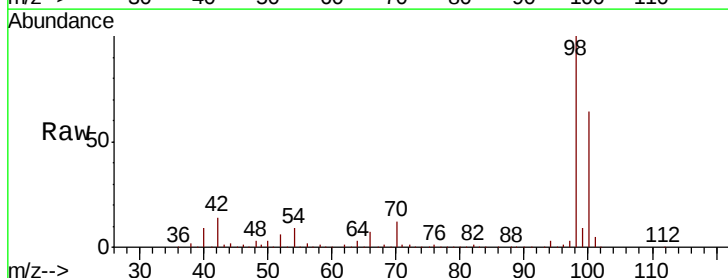
RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

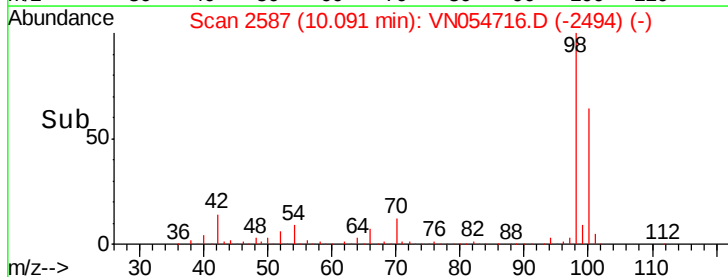
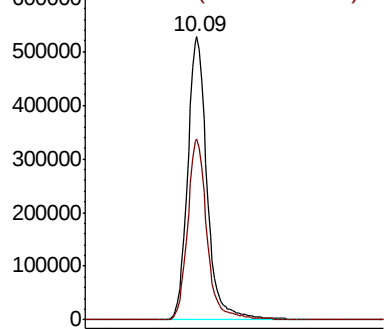
Lab File: VN054716.D

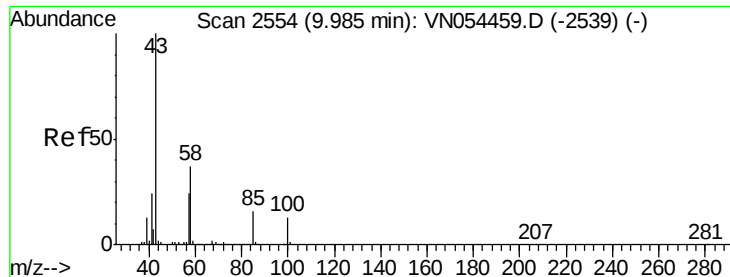
Acq: 27 Mar 2019 12:38

Tgt Ion: 98 Resp: 1044724
Ion Ratio Lower Upper
98 100
100 63.8 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: 1.629 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN054716.D

Acq: 27 Mar 2019 12:38

Instrument :

MSVOA_N

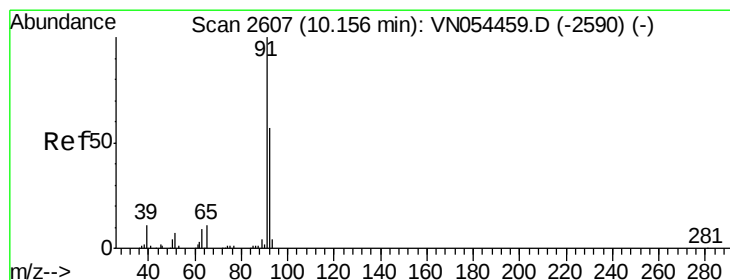
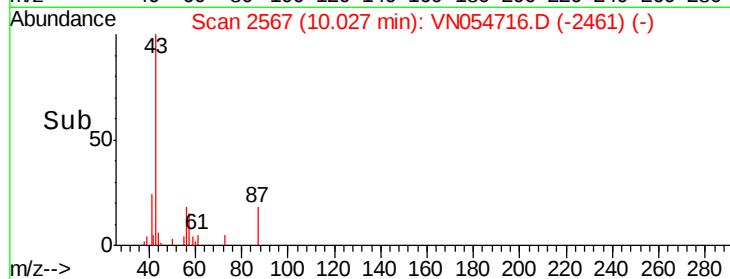
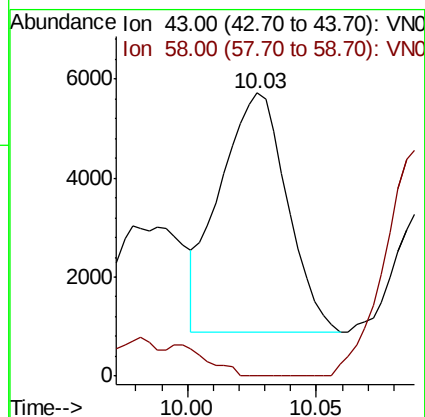
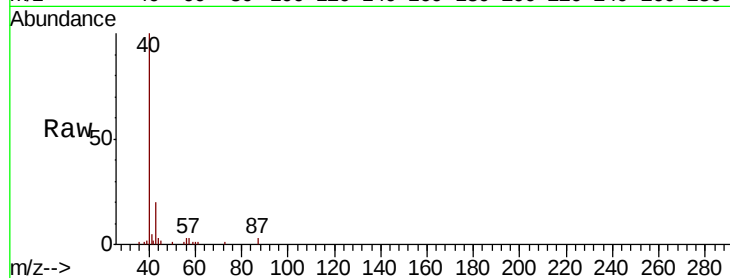
ClientSampled :

Tot Ion: 43 Resp: 8737

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.6#



#52

Toluene

Concen: 0.208 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN054716.D

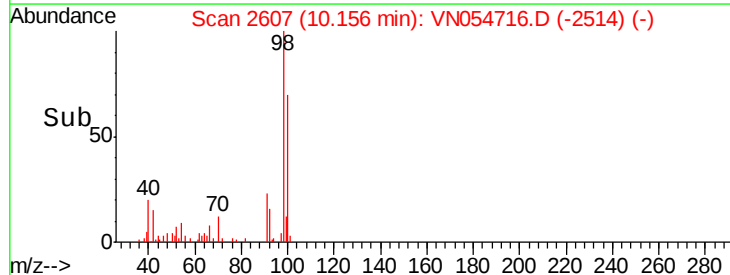
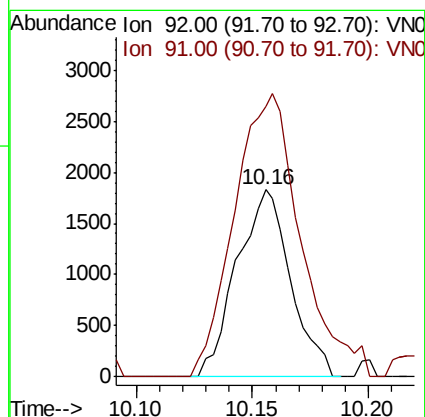
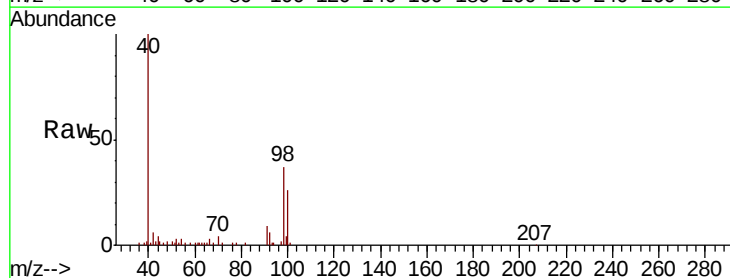
Acq: 27 Mar 2019 12:38

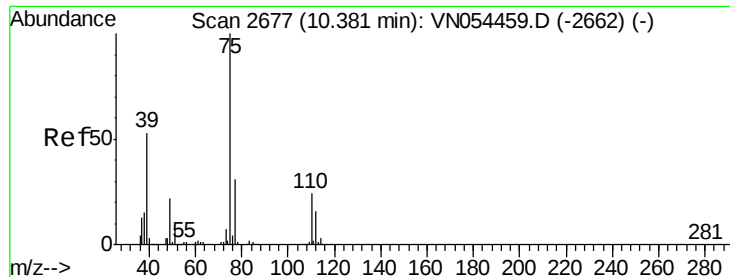
Tgt Ion: 92 Resp: 2941

Ion Ratio Lower Upper

92 100

91 187.5 140.7 211.1





#53

t-1,3-Dichloropropene

Concen: 2.236 ug/l

RT: 10.39 min Scan# 2679

Delta R.T. 0.01 min

Lab File: VN054716.D

Acq: 27 Mar 2019 12:38

Instrument :

MSVOA_N

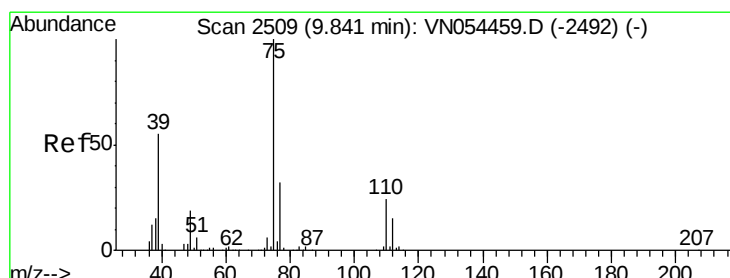
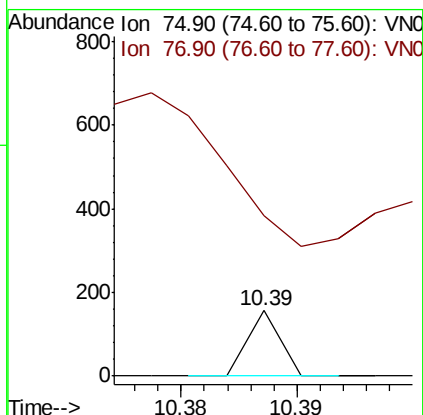
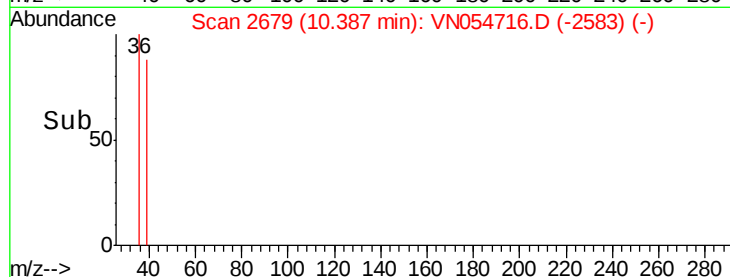
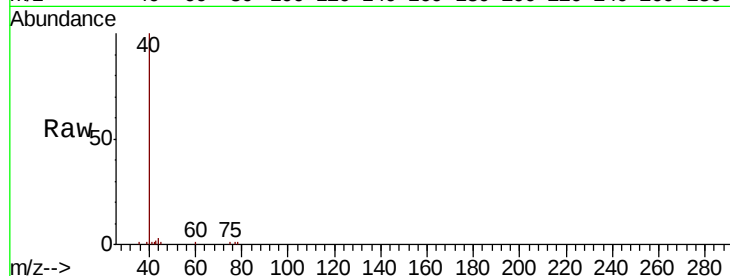
ClientSampleId :

Tot Ion: 75 Resp: 30

Ion Ratio Lower Upper

75 100

77 35.7 25.8 38.8



#54

cis-1,3-Dichloropropene

Concen: 6.188 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054716.D

Acq: 27 Mar 2019 12:38

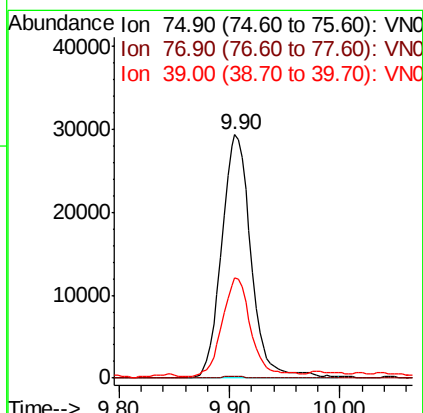
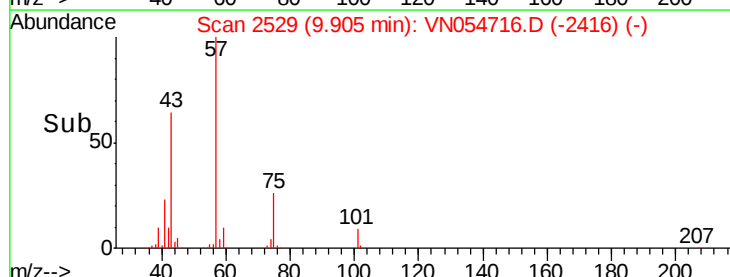
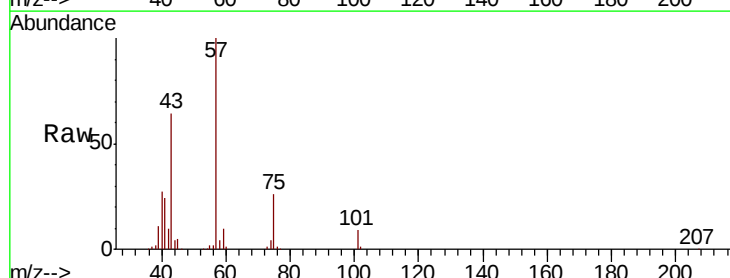
Tgt Ion: 75 Resp: 54340

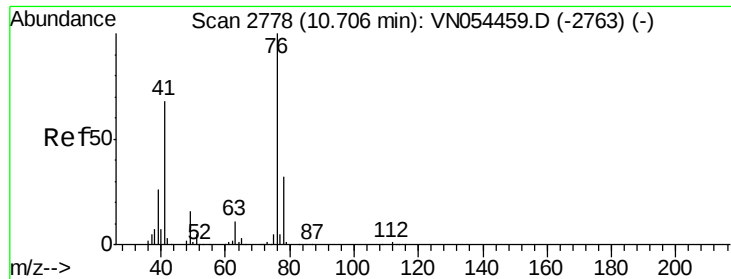
Ion Ratio Lower Upper

75 100

77 0.8 25.4 38.0#

39 40.1 37.2 55.8

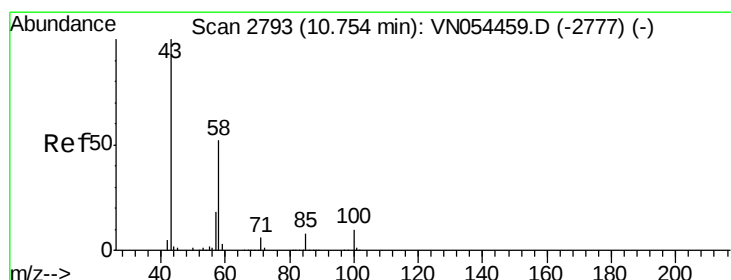
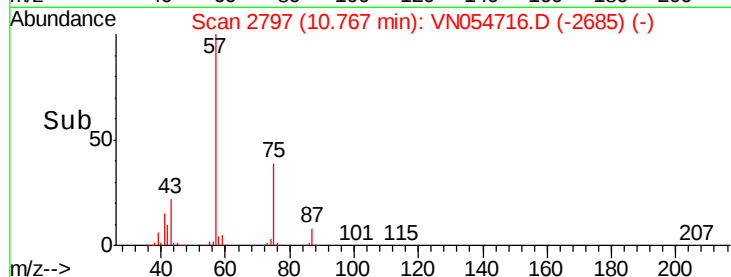
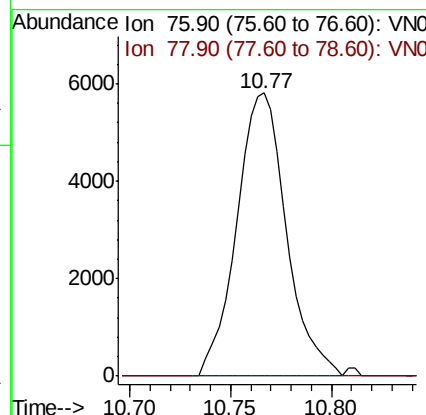
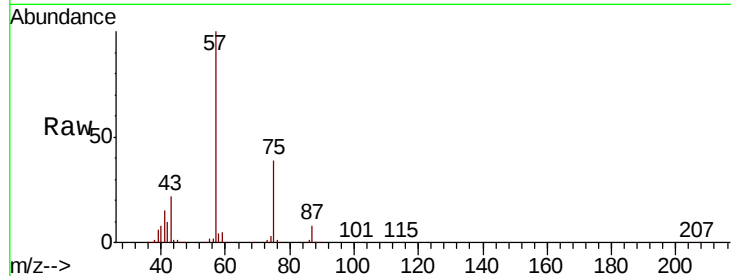




#57
 1,3-Dichloropropane
 Concen: 1.131 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN054716.D
 Acq: 27 Mar 2019 12:38

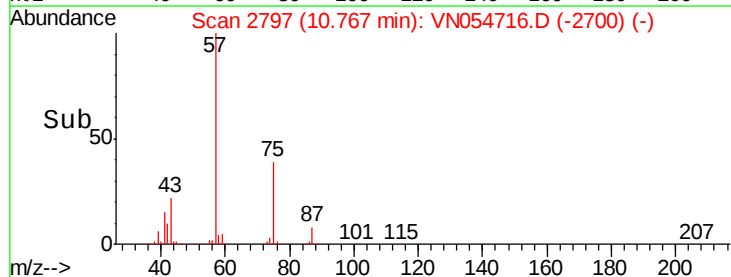
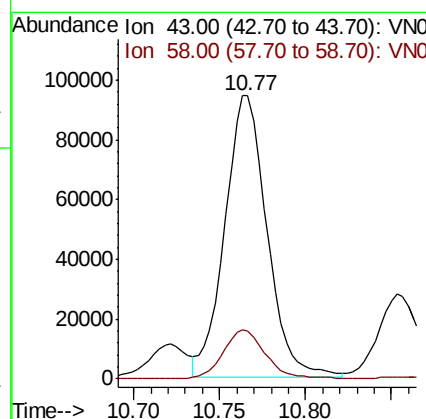
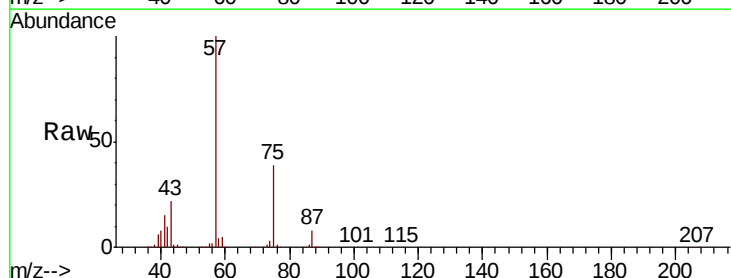
Instrument :
 MSVOA_N
 ClientSampleId :

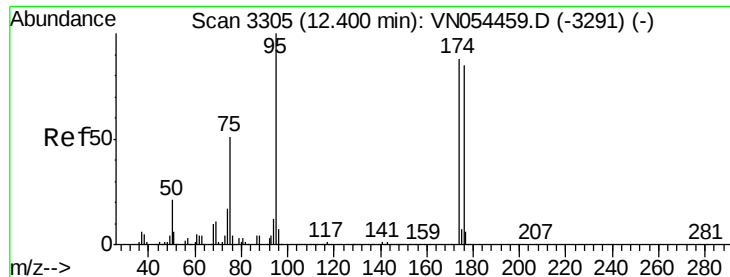
Tot Ion: 76 Resp: 10010
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#59
 2-Hexanone
 Concen: 45.925 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN054716.D
 Acq: 27 Mar 2019 12:38

Tgt Ion: 43 Resp: 160869
 Ion Ratio Lower Upper
 43 100
 58 17.6 28.0 83.9#





#62

4-Bromofluorobenzene

Concen: 44.556 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054716.D

Acq: 27 Mar 2019 12:38

Instrument :

MSVOA_N

ClientSampleId :

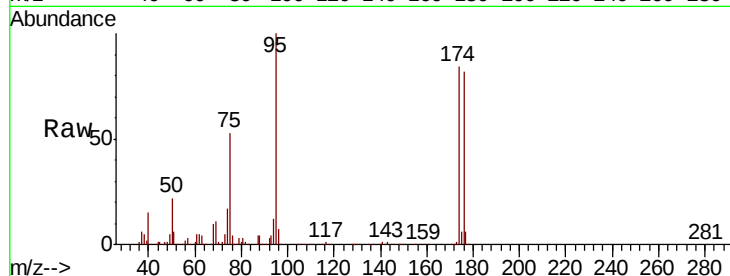
Tot Ion: 95 Resp: 316384

Ion Ratio Lower Upper

95 100

174 84.3 0.0 191.0

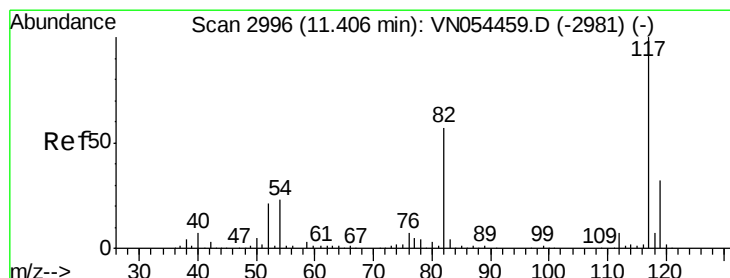
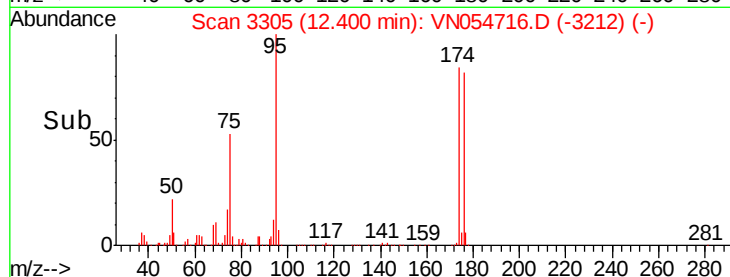
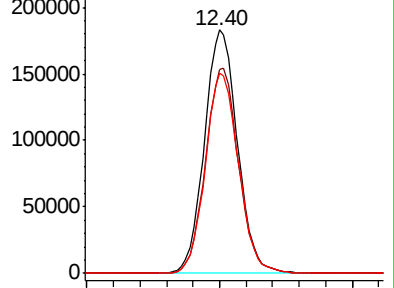
176 82.5 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054716.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN054716.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN054716.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN054716.D

Acq: 27 Mar 2019 12:38

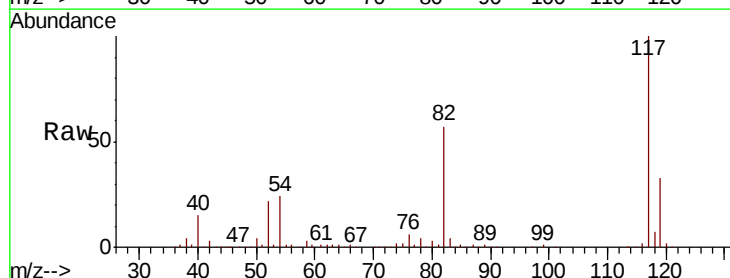
Tgt Ion: 117 Resp: 737345

Ion Ratio Lower Upper

117 100

82 57.0 40.0 60.0

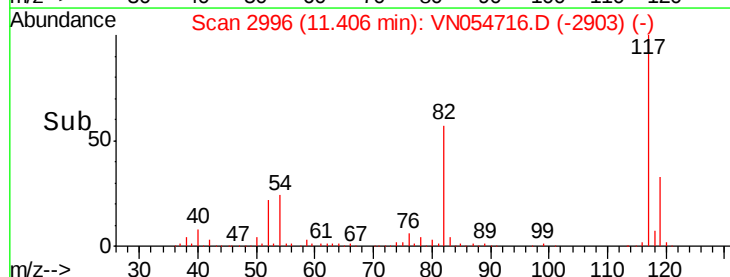
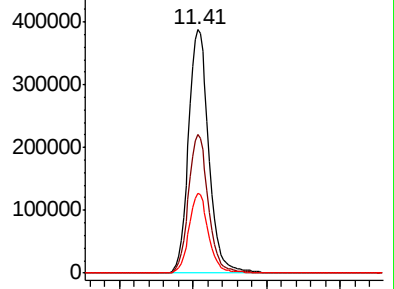
119 32.7 25.8 38.6

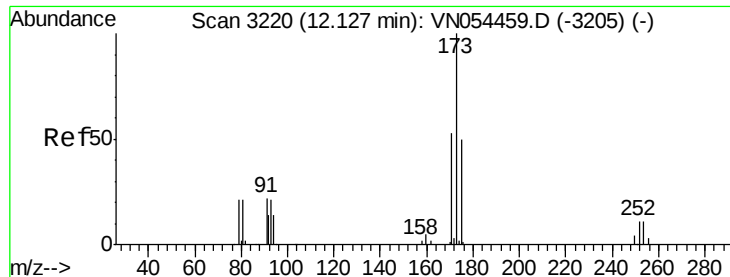


Abundance Ion 116.90 (116.60 to 117.60): VN054716.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN054716.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN054716.D (-2903) (-)





#71

Bromoform

Concen: 2.724 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN054716.D

Acq: 27 Mar 2019 12:38

Instrument :

MSVOA_N

ClientSampleId :

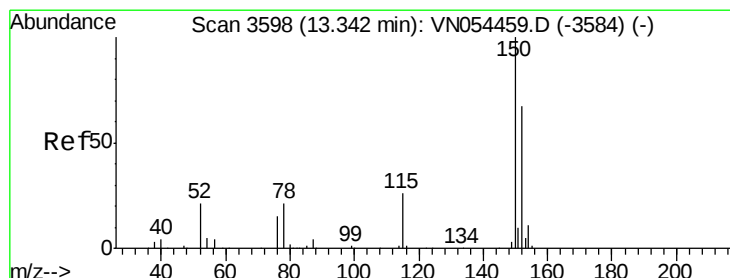
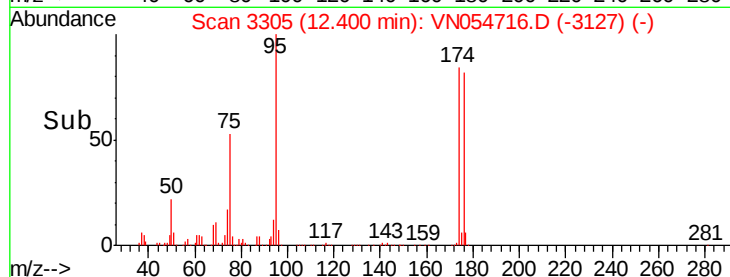
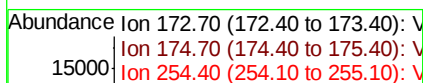
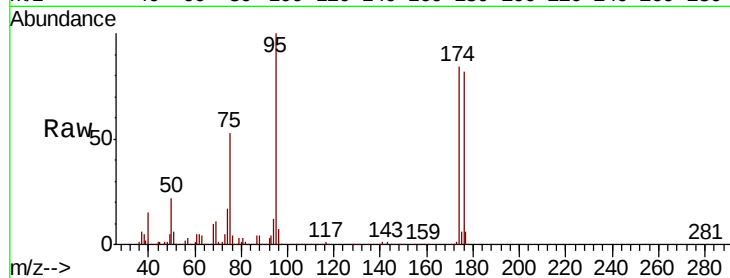
Tot Ion:173 Resp: 1955

Ion Ratio Lower Upper

173 100

175 923.5 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: VN054716.D

Acq: 27 Mar 2019 12:38

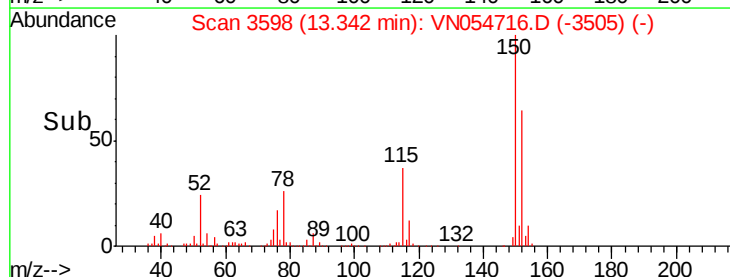
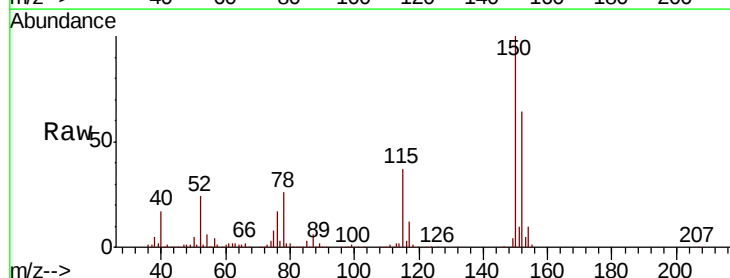
Tgt Ion:152 Resp: 262202

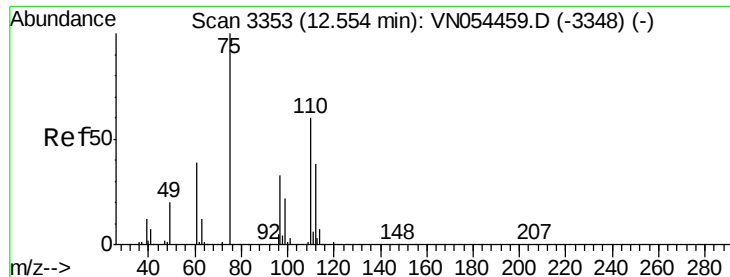
Ion Ratio Lower Upper

152 100

115 58.7 27.2 81.6

150 156.3 0.0 349.2

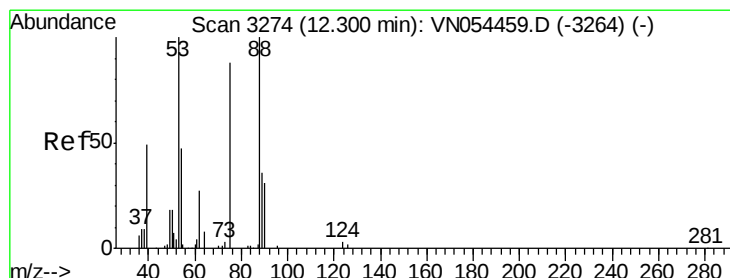
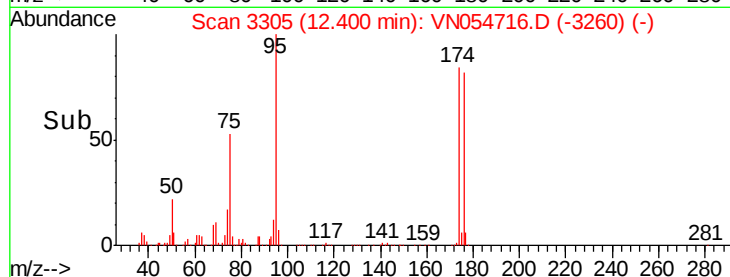
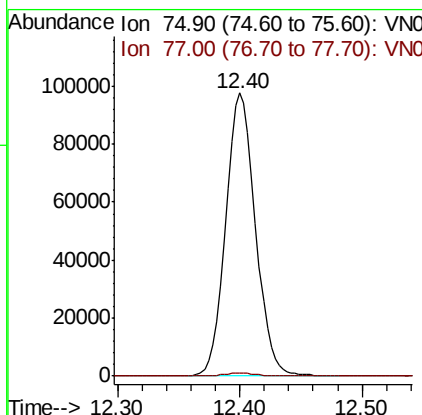
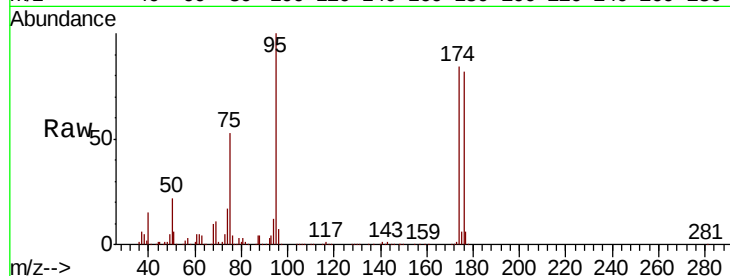




#76
 1,2,3-Trichloropropane
 Concen: 39.966 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN054716.D
 Acq: 27 Mar 2019 12:38

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 75 Resp: 166288
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 132.209 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN054716.D
 Acq: 27 Mar 2019 12:38

Tgt Ion: 75 Resp: 166288
 Ion Ratio Lower Upper
 75 100
 53 0.0 76.2 114.2#
 89 0.1 39.2 58.8#

