

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032819\
 Data File : VN054755.D
 Acq On : 28 Mar 2019 19:55
 Operator : JC/SP
 Sample : K2111-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S5(23)

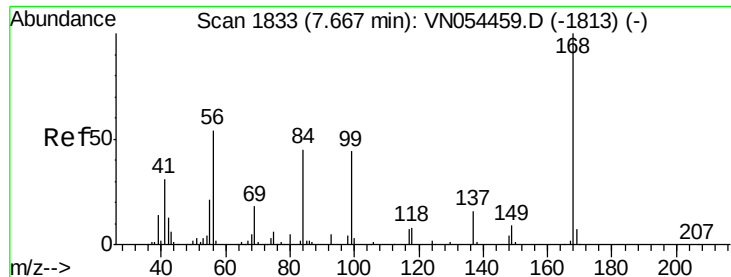
Quant Time: Mar 29 05:06:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	546947	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	897001	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	738960	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	260036	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	361470	53.13	ug/l	0.00
Spiked Amount			Recovery	=	106.26%	
35) Dibromofluoromethane	7.59	113	286468	49.57	ug/l	0.00
Spiked Amount			Recovery	=	99.14%	
50) Toluene-d8	10.09	98	1045421	48.12	ug/l	0.00
Spiked Amount			Recovery	=	96.24%	
62) 4-Bromofluorobenzene	12.40	95	321034	43.43	ug/l	0.00
Spiked Amount			Recovery	=	86.86%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	397	0.698	ug/l #	14
16) Acetone	3.83	43	9410	4.601	ug/l #	79
18) Methyl Acetate	4.34	43	4687	1.028	ug/l #	69
20) Methylene Chloride	4.55	84	15814	2.623	ug/l #	85
25) 2-Butanone	6.85	43	849	0.324	ug/l	93
29) Tetrahydrofuran	7.23	42	977	0.575	ug/l #	51
31) Cyclohexane	7.67	56	11657	Below Cal	#	21
36) 1,1-Dichloropropene	7.66	75	41059	4.896	ug/l #	47
38) Carbon Tetrachloride	7.67	117	50469	6.192	ug/l #	16
43) Isopropyl Acetate	8.17	43	14587	1.448	ug/l	97
45) 1,2-Dichloropropane	9.27	63	1527	0.237	ug/l #	43
48) Methyl methacrylate	9.18	41	6677	1.221	ug/l #	11
49) 1,4-Dioxane	9.27	88	67	1.096	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	7540	1.350	ug/l #	36
53) t-1,3-Dichloropropene	10.34	75	67	2.240	ug/l #	76
54) cis-1,3-Dichloropropene	9.91	75	49938	5.462	ug/l #	72
57) 1,3-Dichloropropane	10.76	76	9679	1.050	ug/l #	43
59) 2-Hexanone	10.77	43	156902	43.024	ug/l #	47
71) Bromoform	12.40	173	1582	2.627	ug/l #	1
74) N-amyl acetate	11.88	43	16744	2.779	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	166832	40.431	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	166832	133.709	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: VN054755.D

Acq: 28 Mar 2019 19:55

Instrument :

MSVOA_N

ClientSampled :

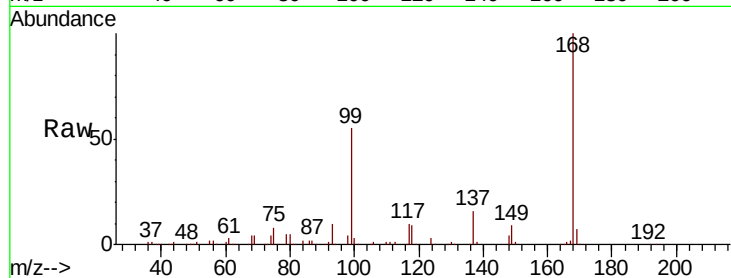
S5(23)

Tot Ion:168 Resp: 546947

Ion Ratio Lower Upper

168 100

99 54.9 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN054755.D

Ion 98.90 (98.60 to 99.60): VN054755.D

7.67

250000

200000

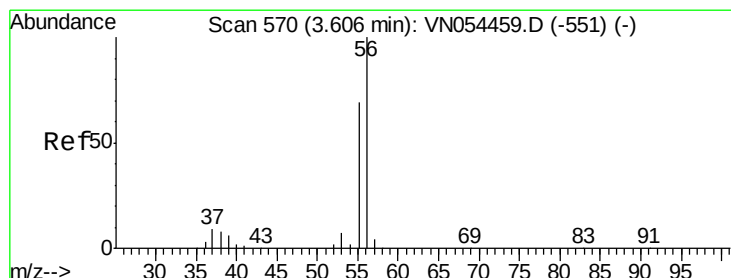
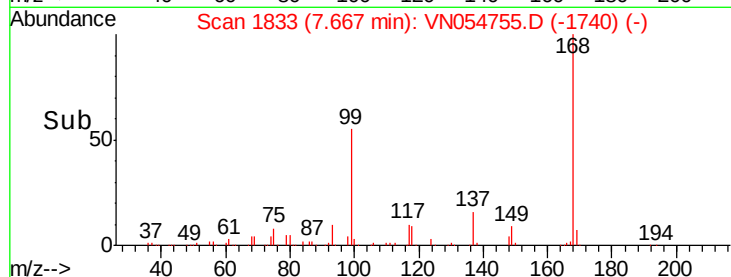
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 0.698 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN054755.D

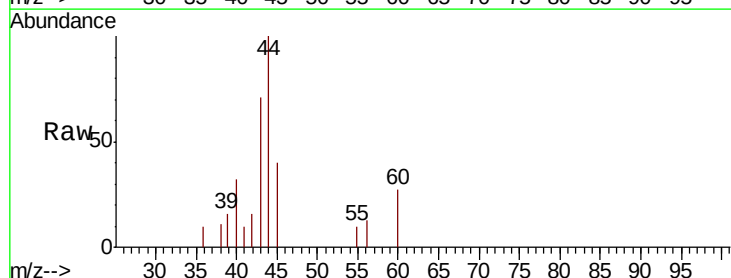
Acq: 28 Mar 2019 19:55

Tgt Ion: 56 Resp: 397

Ion Ratio Lower Upper

56 100

55 0.0 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN054755.D

Ion 55.00 (54.70 to 55.70): VN054755.D

3.61

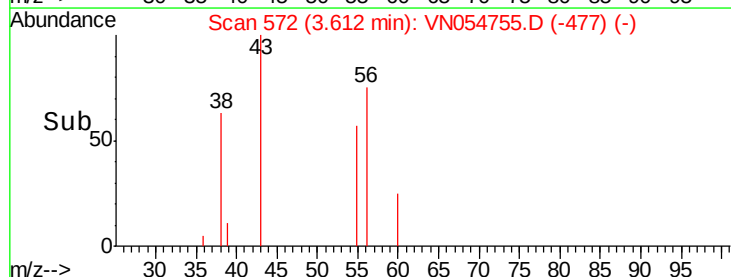
300

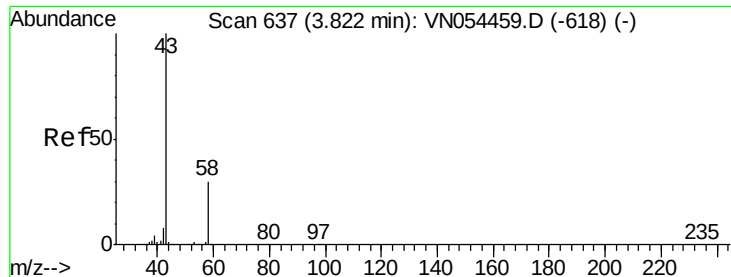
200

100

0

Time-->





#16

Acetone

Concen: 4.601 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN054755.D

Acq: 28 Mar 2019 19:55

Instrument :

MSVOA_N

ClientSampled :

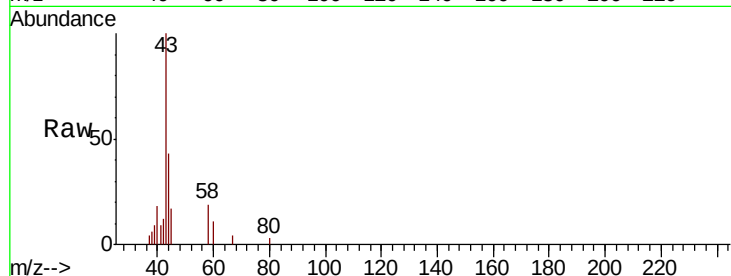
S5(23)

Tot Ion: 43 Resp: 9410

Ion Ratio Lower Upper

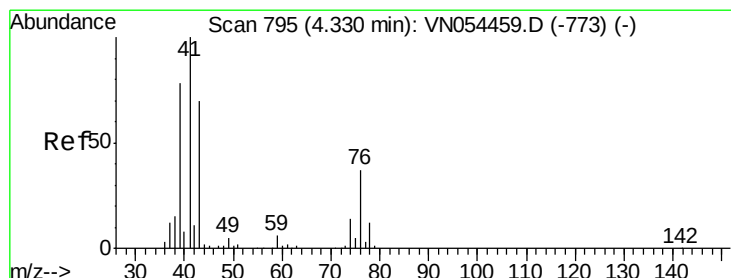
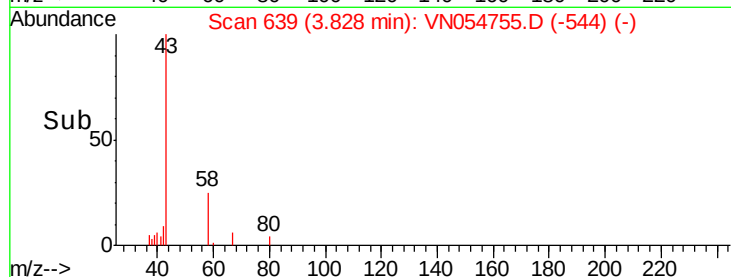
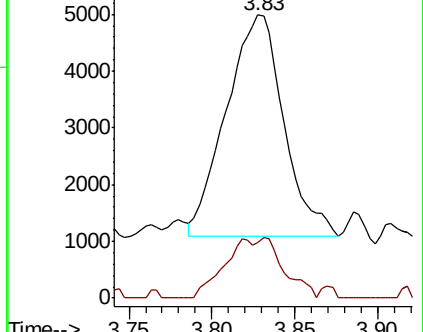
43 100

58 24.9 29.9 44.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.028 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN054755.D

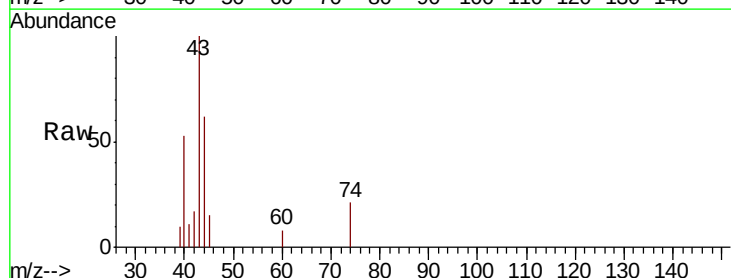
Acq: 28 Mar 2019 19:55

Tgt Ion: 43 Resp: 4687

Ion Ratio Lower Upper

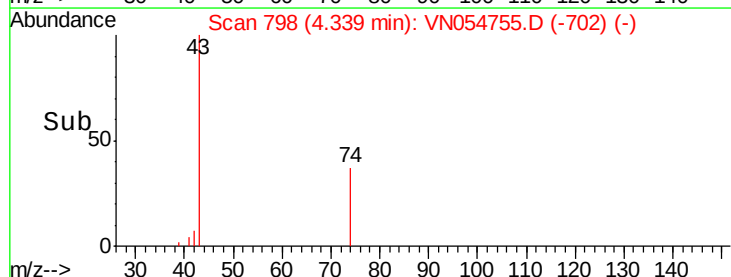
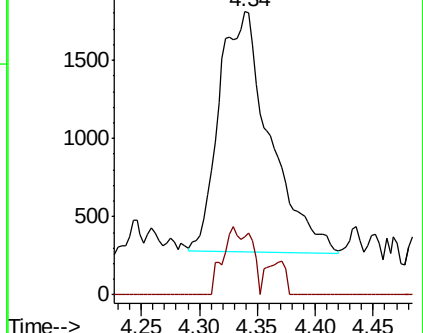
43 100

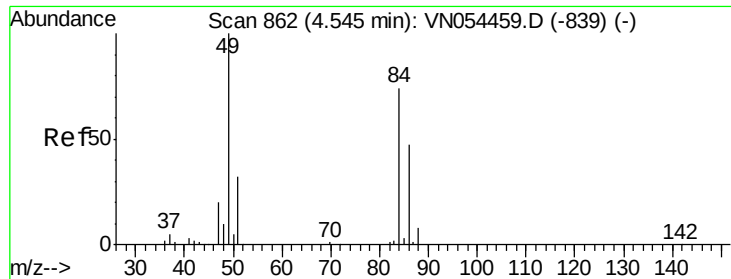
74 10.0 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

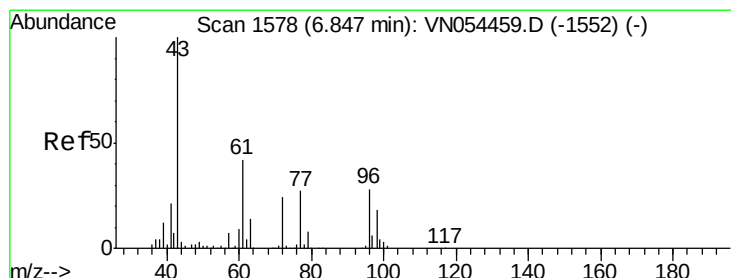
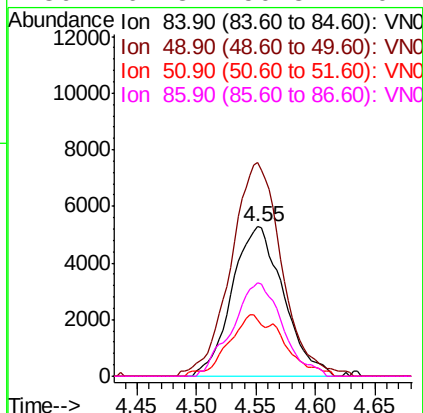
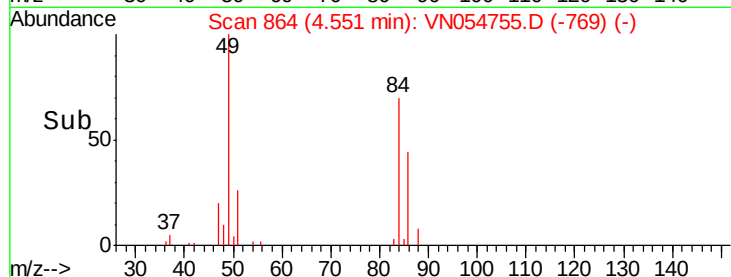
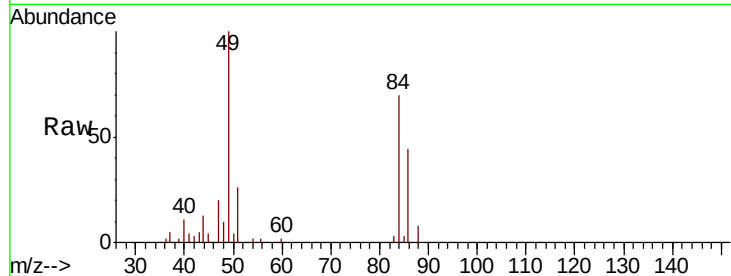




#20
Methvlene Chloride
Concen: 2.623 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.01 min
Lab File: VN054755.D
Acq: 28 Mar 2019 19:55

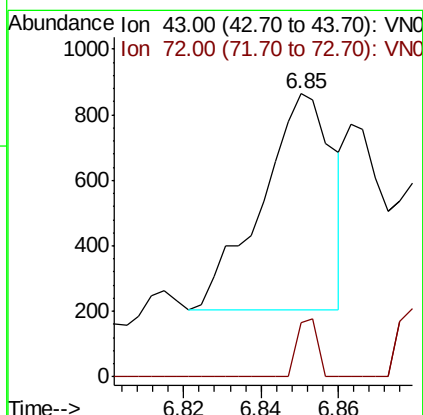
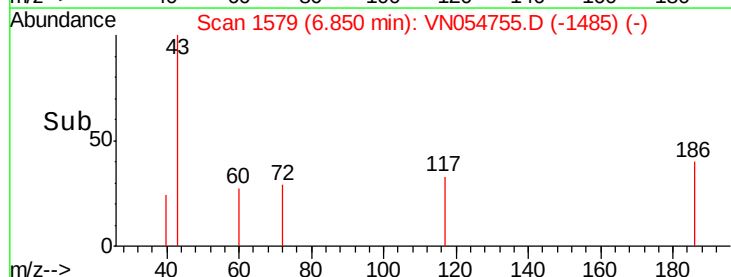
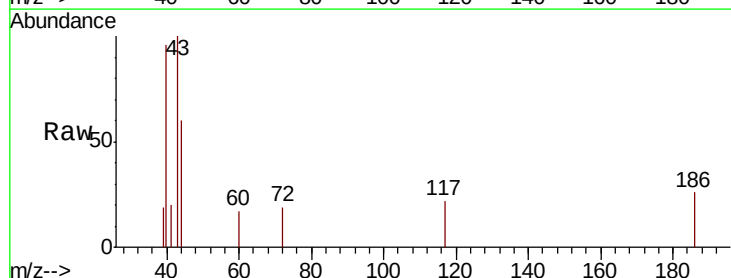
Instrument :
MSVOA_N
ClientSampled :
S5(23)

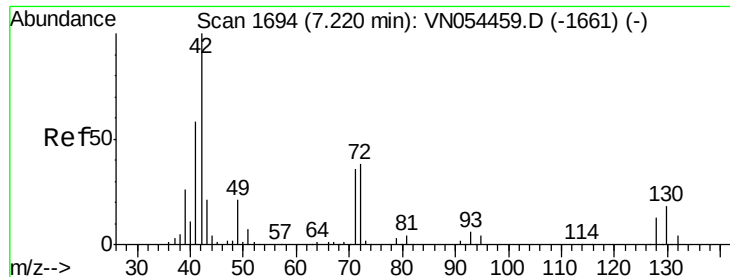
Tot Ion: 84 Resp: 15814
Ion Ratio Lower Upper
84 100
49 139.2 89.7 134.5#
51 37.9 28.2 42.4
86 62.3 50.8 76.2



#25
2-Butanone
Concen: 0.324 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.00 min
Lab File: VN054755.D
Acq: 28 Mar 2019 19:55

Tgt Ion: 43 Resp: 849
Ion Ratio Lower Upper
43 100
72 24.8 23.0 34.6





#29

Tetrahydrofuran

Concen: 0.575 ug/l

RT: 7.23 min Scan# 1698

Delta R.T. 0.01 min

Lab File: VN054755.D

Acq: 28 Mar 2019 19:55

Instrument :

MSVOA_N

ClientSampled :

S5(23)

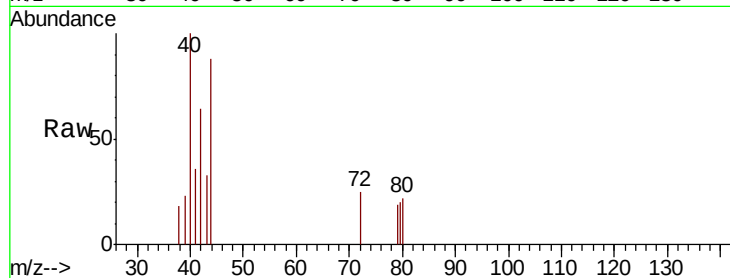
Tot Ion: 42 Resp: 977

Ion Ratio Lower Upper

42 100

72 15.1 37.8 56.6#

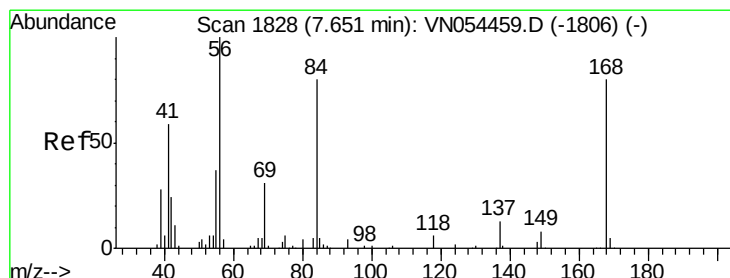
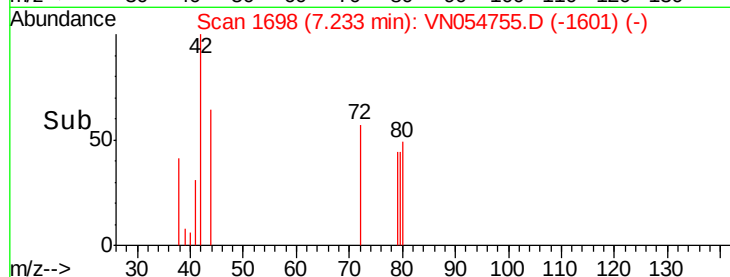
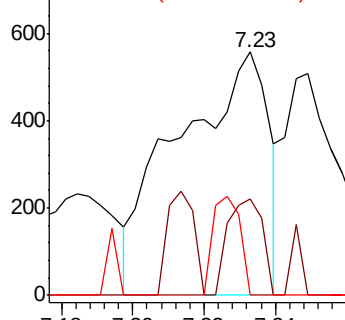
71 12.3 36.2 54.2#



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: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN054755.D

Acq: 28 Mar 2019 19:55

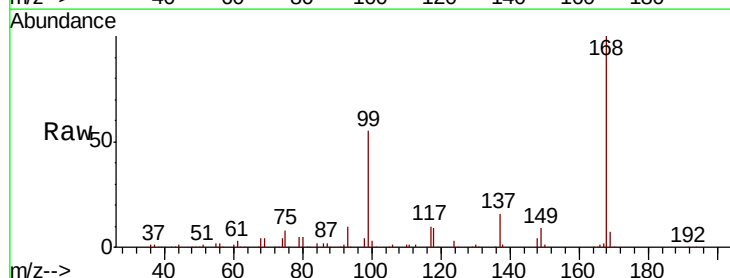
Tgt Ion: 56 Resp: 11657

Ion Ratio Lower Upper

56 100

69 166.3 27.8 41.6#

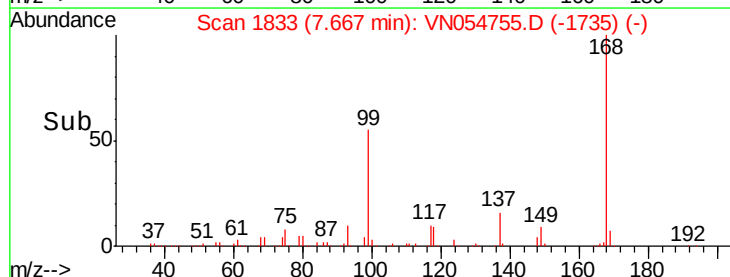
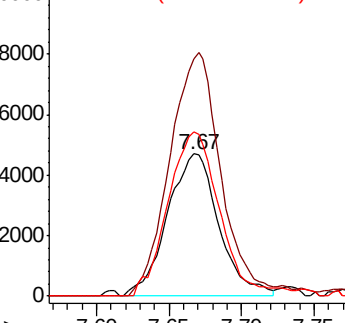
84 115.7 74.6 111.8#

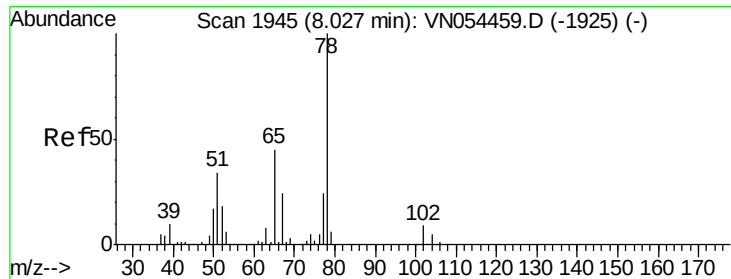


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

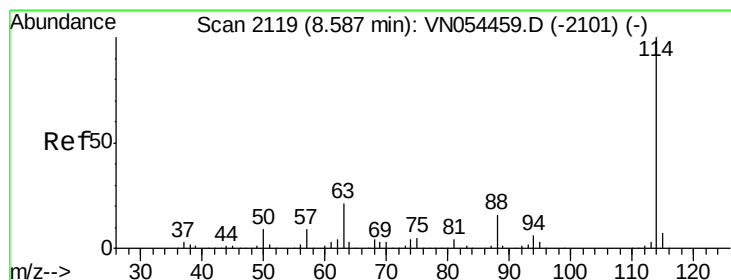
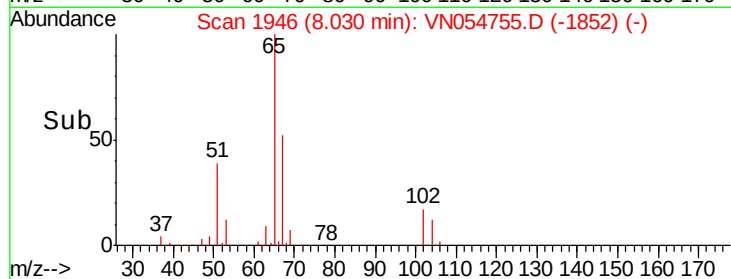
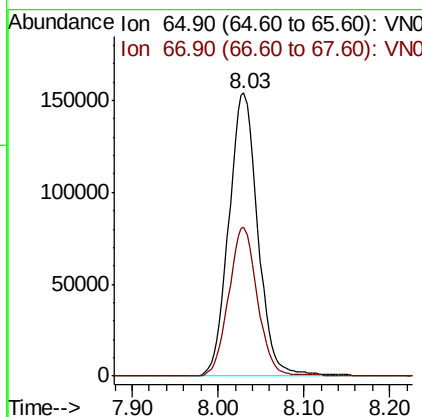
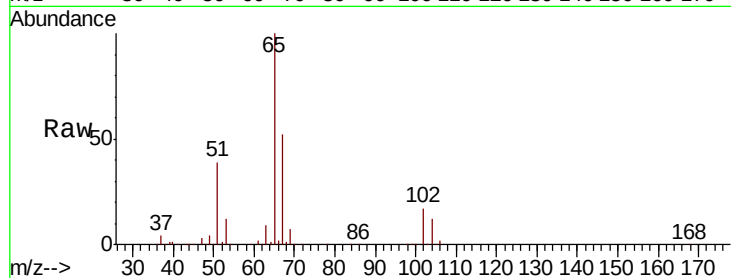




#33
 1,2-Dichloroethane-d4
 Concen: 53.133 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN054755.D
 Acq: 28 Mar 2019 19:55

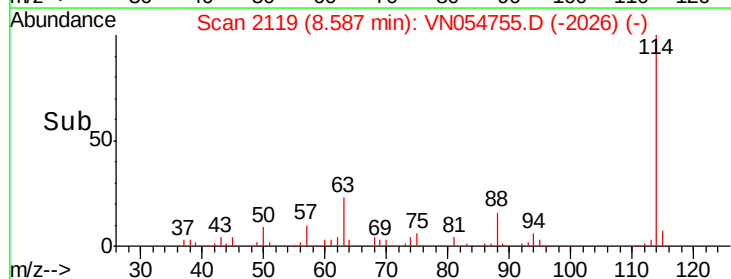
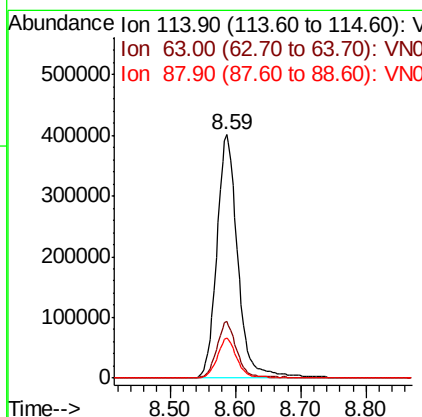
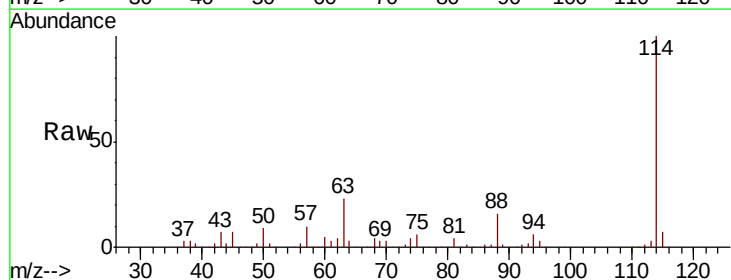
Instrument :
 MSVOA_N
 ClientSampleId :
 S5(23)

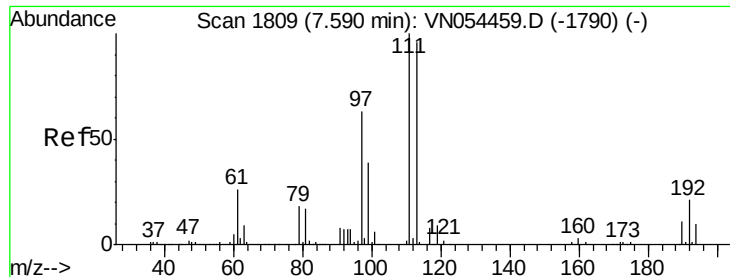
Tot Ion: 65 Resp: 361470
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054755.D
 Acq: 28 Mar 2019 19:55

Tgt Ion: 114 Resp: 897001
 Ion Ratio Lower Upper
 114 100
 63 23.1 0.0 35.2
 88 16.4 0.0 30.2





#35

Dibromofluoromethane

Concen: 49.571 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054755.D

Acq: 28 Mar 2019 19:55

Instrument :

MSVOA_N

ClientSampleId :

S5(23)

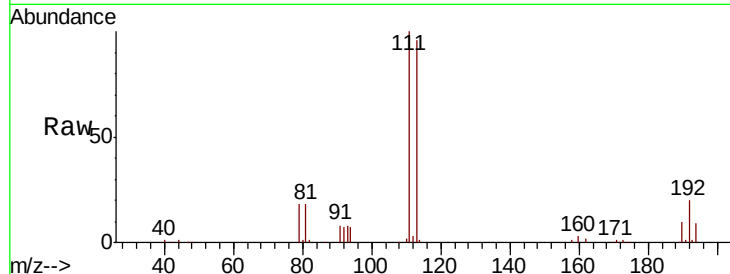
Tot Ion:113 Resp: 286468

Ion Ratio Lower Upper

113 100

111 101.8 82.2 123.4

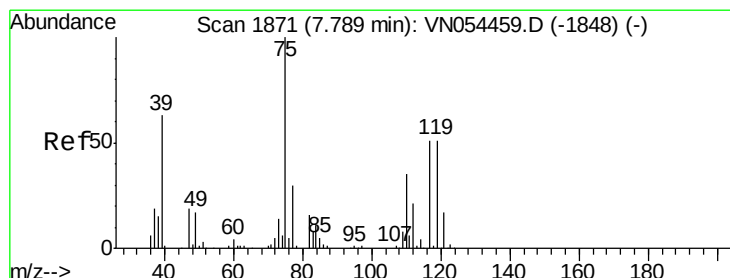
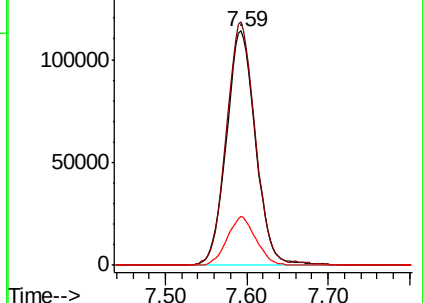
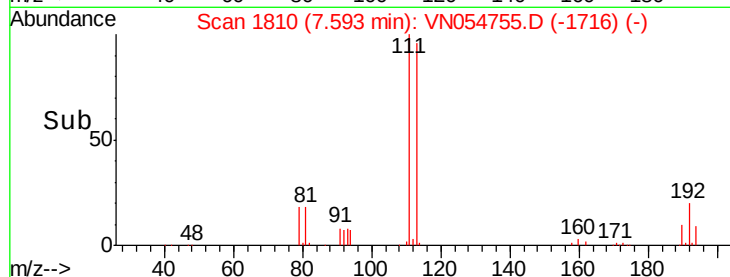
192 20.4 19.2 28.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.896 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054755.D

Acq: 28 Mar 2019 19:55

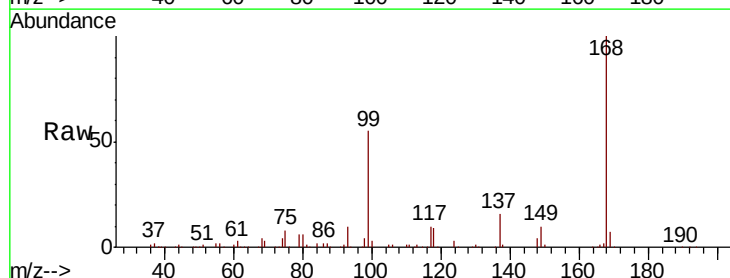
Tgt Ion: 75 Resp: 41059

Ion Ratio Lower Upper

75 100

110 8.2 19.1 57.5#

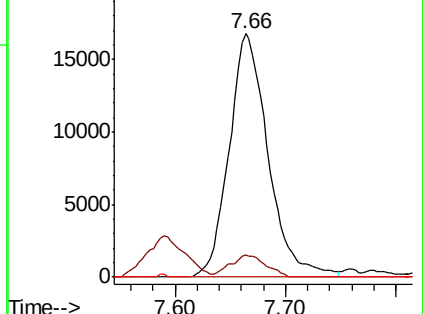
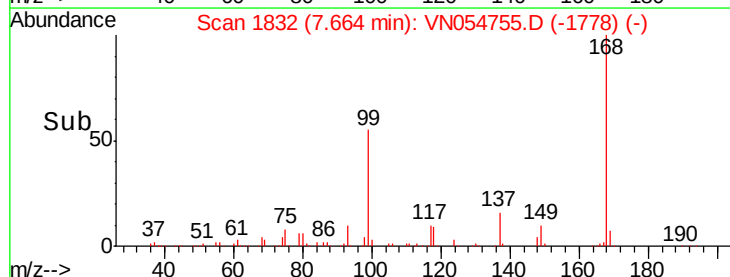
77 0.0 25.0 37.4#

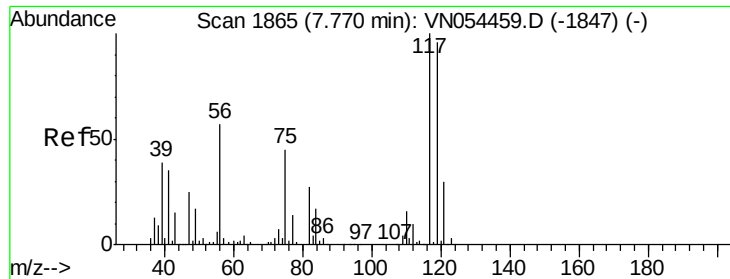


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 6.192 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.10 min

Lab File: VN054755.D

Acq: 28 Mar 2019 19:55

Instrument :

MSVOA_N

ClientSampled :

S5(23)

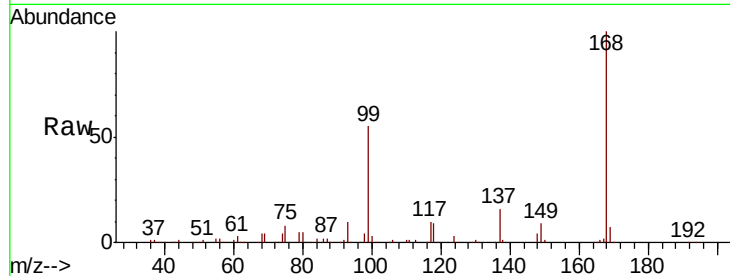
Tot Ion:117 Resp: 50469

Ion Ratio Lower Upper

117 100

119 4.3 76.3 114.5#

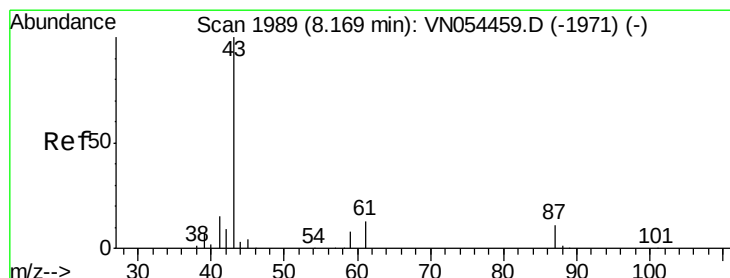
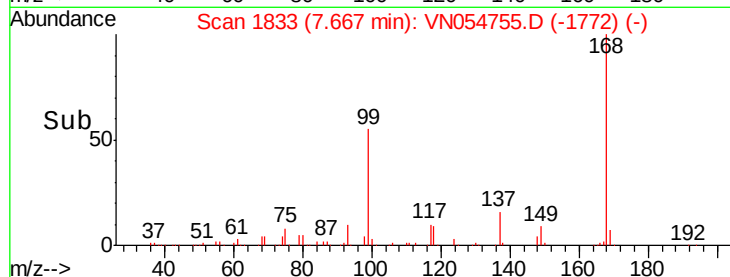
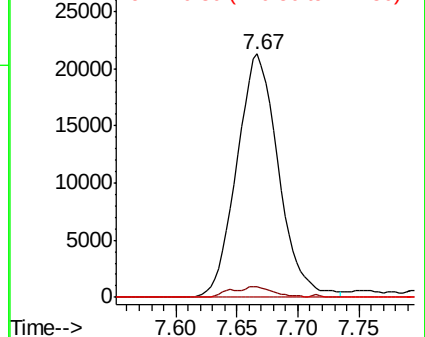
121 0.0 24.6 36.8#



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: 1.448 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. -0.00 min

Lab File: VN054755.D

Acq: 28 Mar 2019 19:55

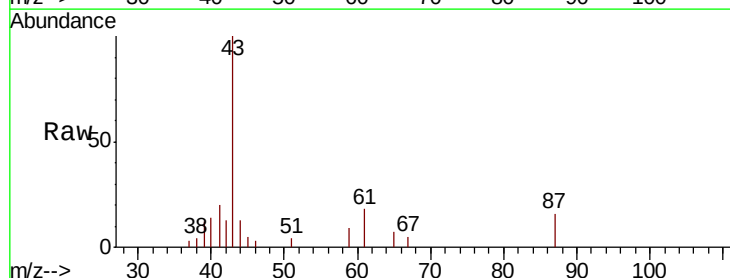
Tgt Ion: 43 Resp: 14587

Ion Ratio Lower Upper

43 100

61 18.6 15.8 23.8

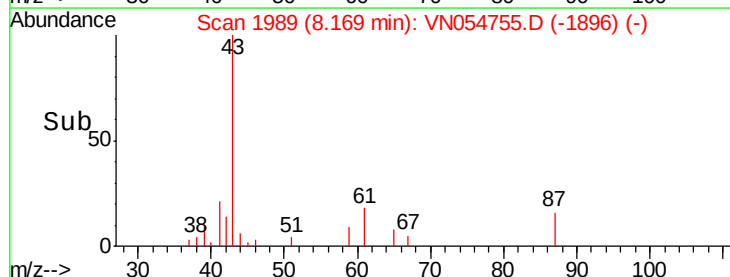
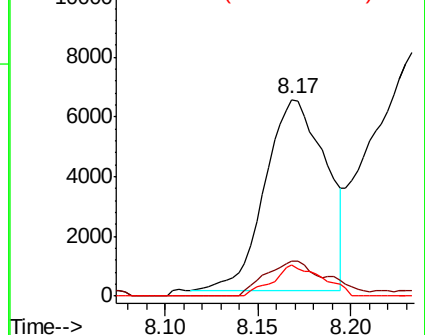
87 13.2 12.0 18.0

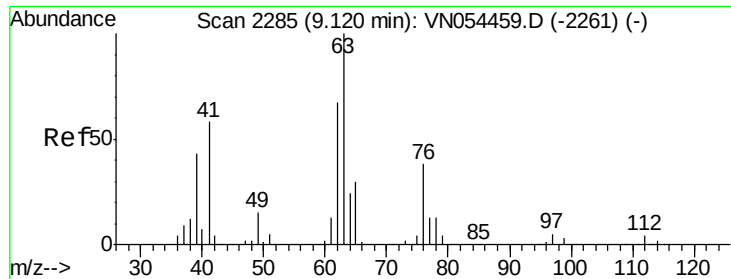


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

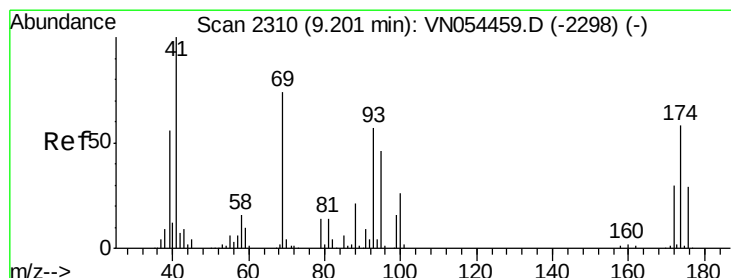
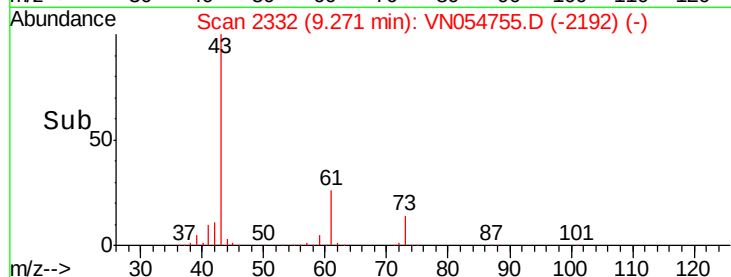
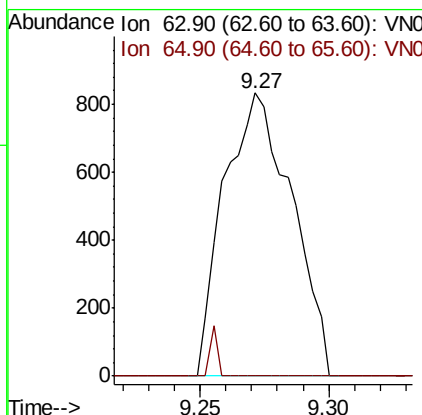
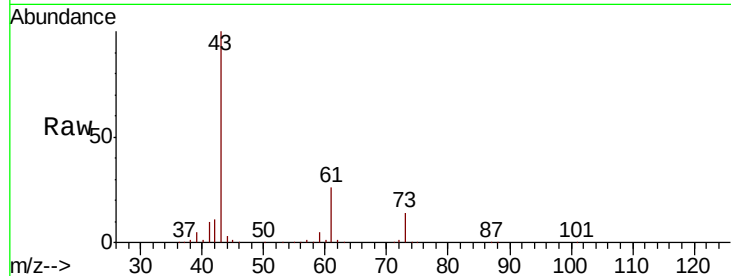




#45
 1,2-Dichloropropane
 Concen: 0.237 ug/l
 RT: 9.27 min Scan# 2332
 Delta R.T. 0.15 min
 Lab File: VN054755.D
 Acq: 28 Mar 2019 19:55

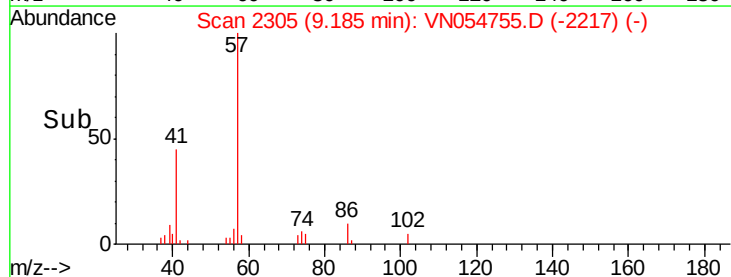
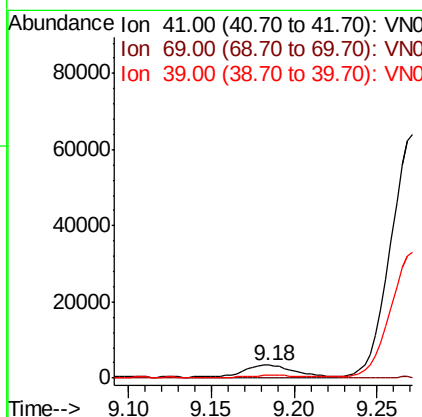
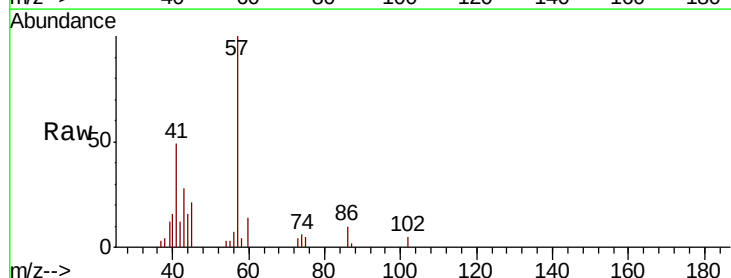
Instrument :
 MSVOA_N
 ClientSampleId :
 S5(23)

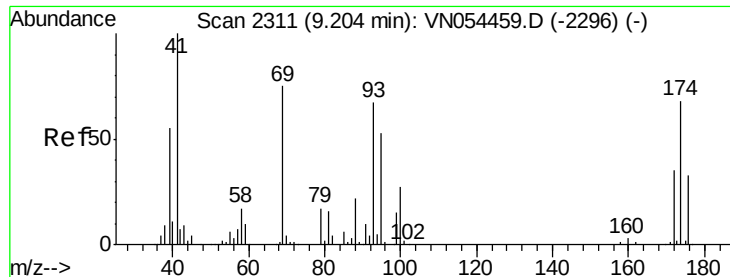
Tot Ion: 63 Resp: 1527
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.6#



#48
 Methyl methacrylate
 Concen: 1.221 ug/l
 RT: 9.18 min Scan# 2305
 Delta R.T. -0.02 min
 Lab File: VN054755.D
 Acq: 28 Mar 2019 19:55

Tgt Ion: 41 Resp: 6677
 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: 1.096 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.06 min

Lab File: VN054755.D

Acq: 28 Mar 2019 19:55

Instrument :

MSVOA_N

ClientSampleId :

S5(23)

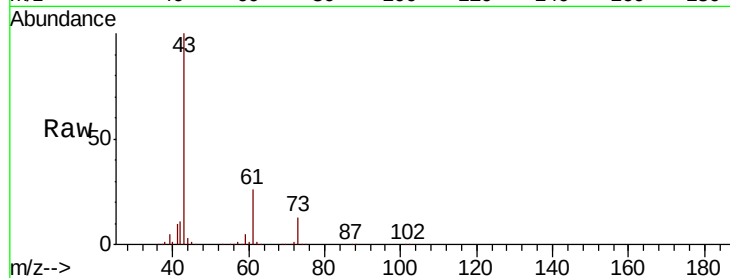
Tot Ion: 88 Resp: 67

Ion Ratio Lower Upper

88 100

43 1928220.9 24.1 36.1#

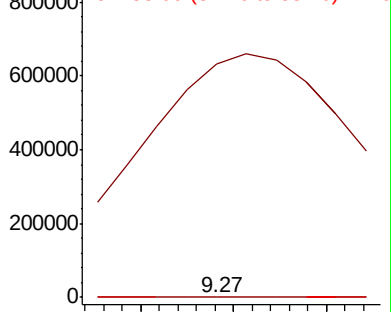
58 7926.9 50.8 76.2#



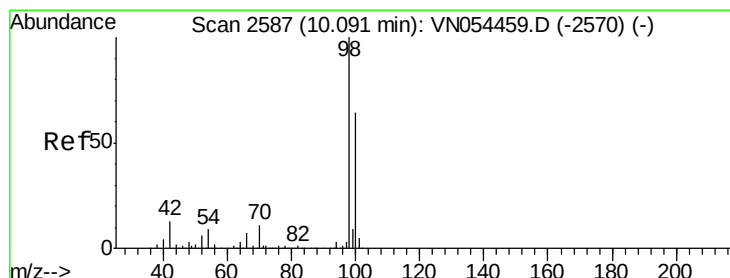
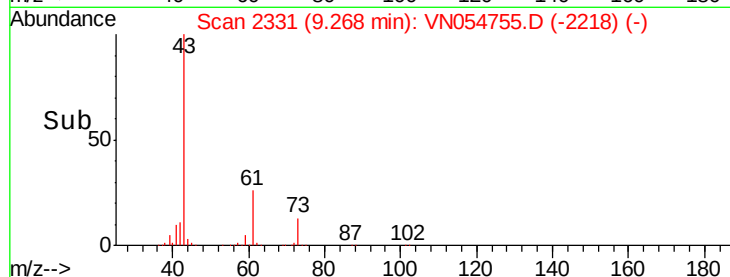
Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->



#50

Toluene-d8

Concen: 48.120 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054755.D

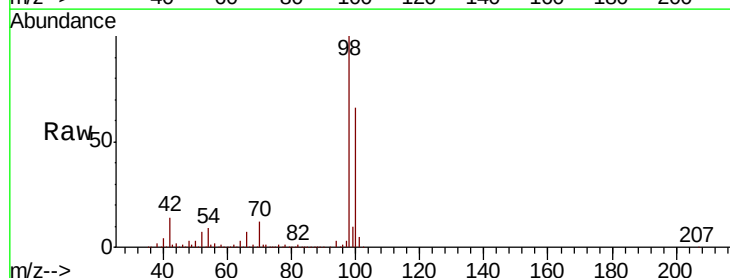
Acq: 28 Mar 2019 19:55

Tgt Ion: 98 Resp: 1045421

Ion Ratio Lower Upper

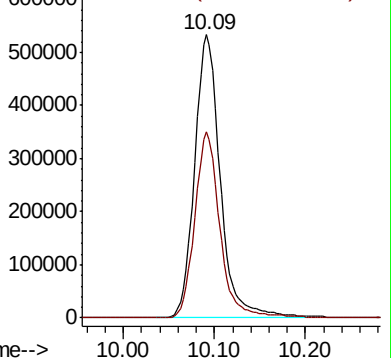
98 100

100 64.8 51.2 76.8

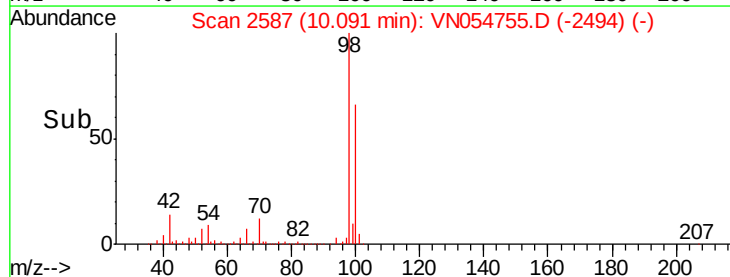


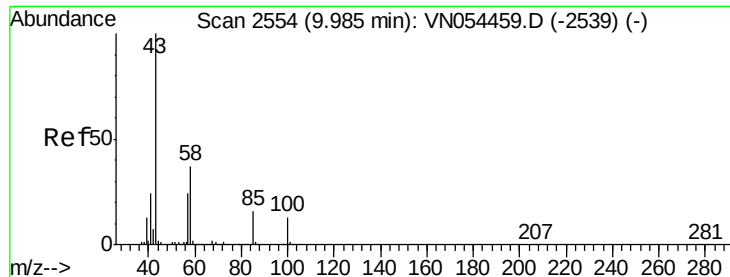
Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0



Time-->





#51

4-Methyl-2-Pentanone

Concen: 1.350 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN054755.D

Acq: 28 Mar 2019 19:55

Instrument :

MSVOA_N

ClientSampled :

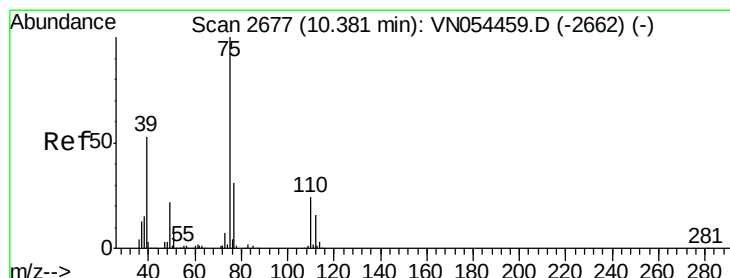
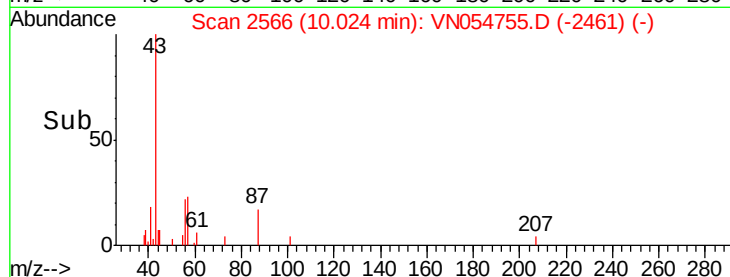
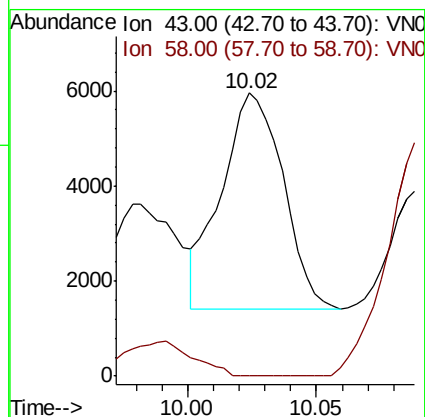
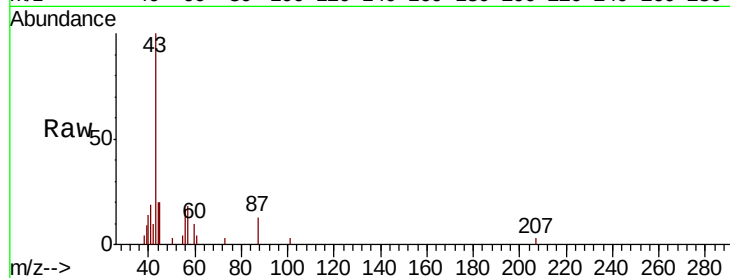
S5(23)

Tot Ion: 43 Resp: 7540

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.6#



#53

t-1,3-Dichloropropene

Concen: 2.240 ug/l

RT: 10.34 min Scan# 2663

Delta R.T. -0.04 min

Lab File: VN054755.D

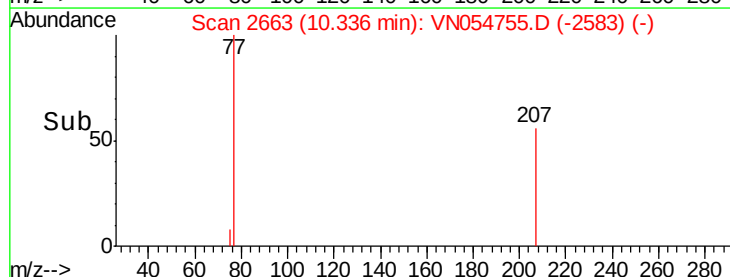
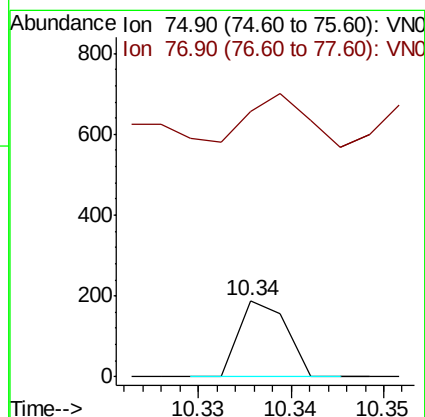
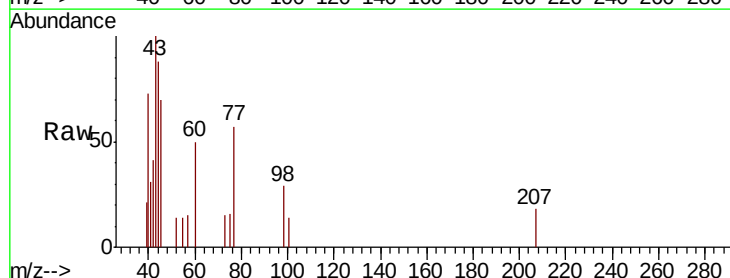
Acq: 28 Mar 2019 19:55

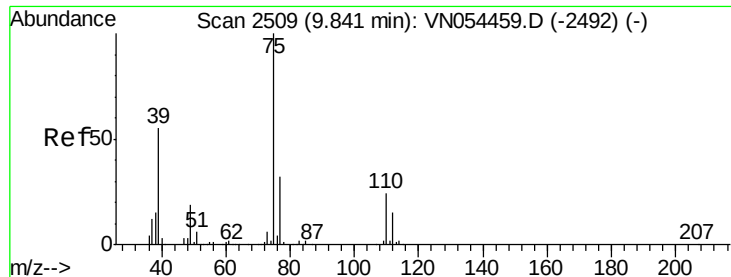
Tgt Ion: 75 Resp: 67

Ion Ratio Lower Upper

75 100

77 45.5 25.8 38.8#





#54

cis-1,3-Dichloropropene

Concen: 5.462 ug/l

RT: 9.91 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN054755.D

Acq: 28 Mar 2019 19:55

Instrument :

MSVOA_N

ClientSampleId :

S5(23)

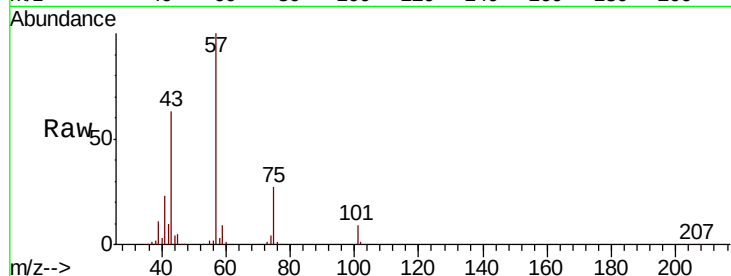
Tot Ion: 75 Resp: 49938

Ion Ratio Lower Upper

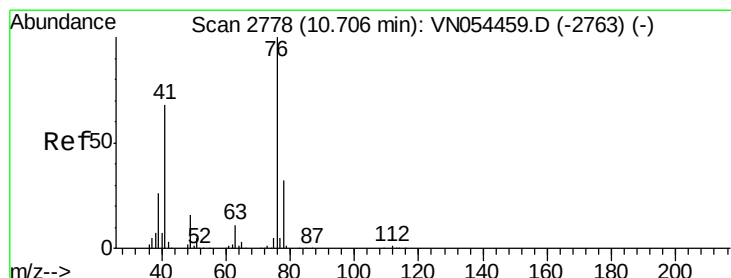
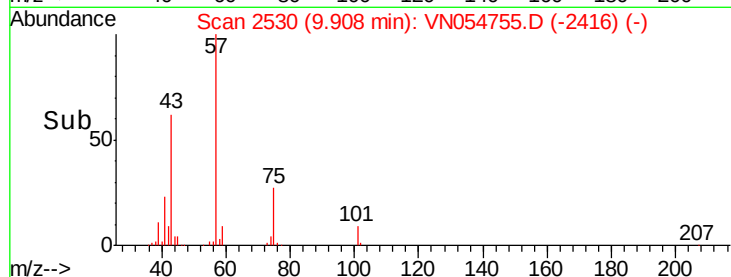
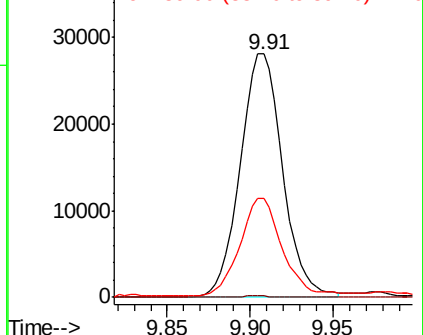
75 100

77 0.6 25.4 38.0#

39 40.1 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: 1.050 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN054755.D

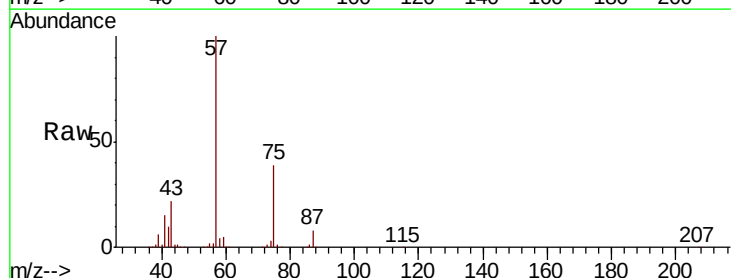
Acq: 28 Mar 2019 19:55

Tgt Ion: 76 Resp: 9679

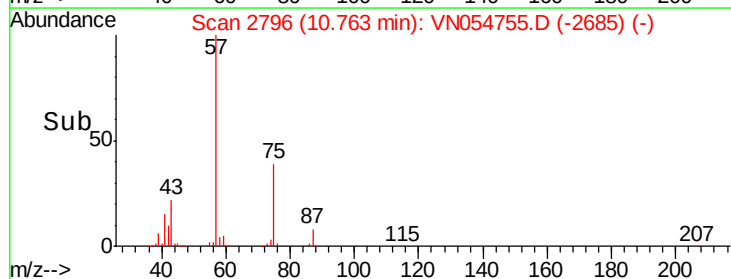
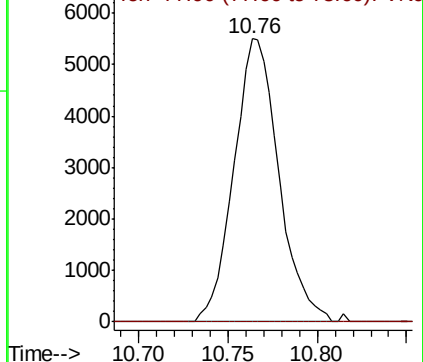
Ion Ratio Lower Upper

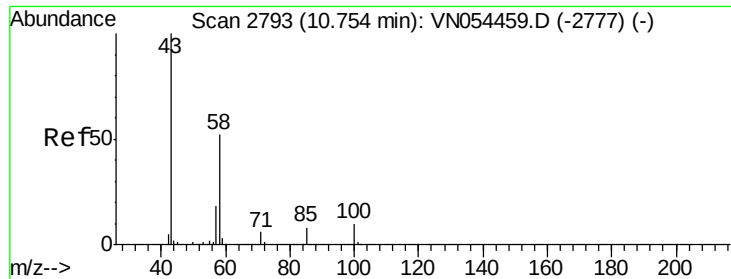
76 100

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: 43.024 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN054755.D

Acq: 28 Mar 2019 19:55

Instrument :

MSVOA_N

ClientSampled :

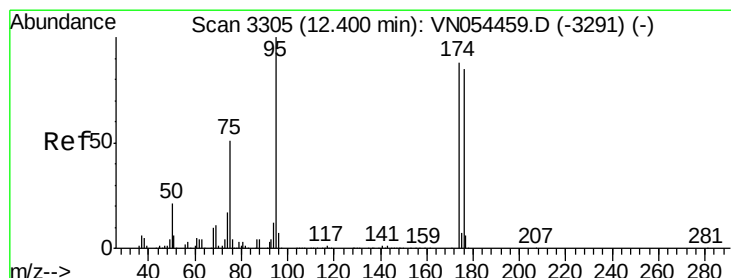
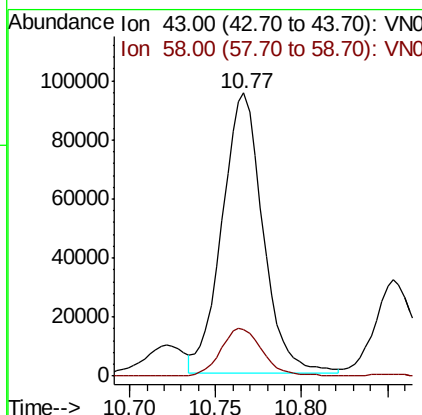
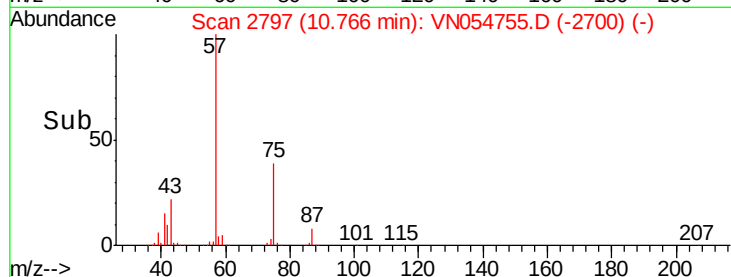
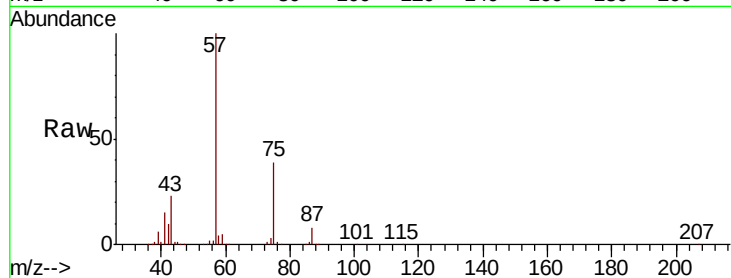
S5(23)

Tot Ion: 43 Resp: 156902

Ion Ratio Lower Upper

43 100

58 17.5 28.0 83.9#



#62

4-Bromofluorobenzene

Concen: 43.426 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054755.D

Acq: 28 Mar 2019 19:55

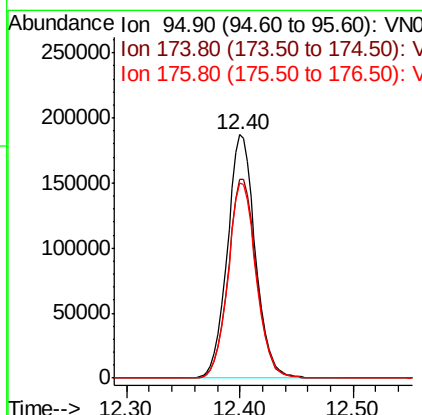
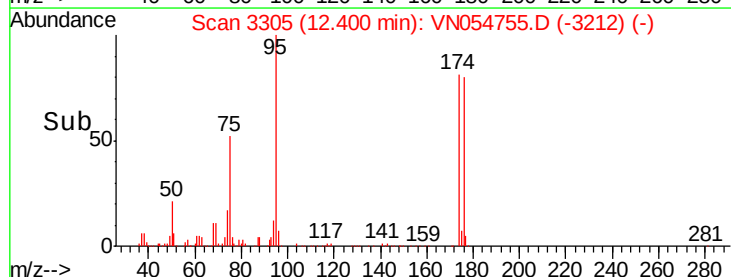
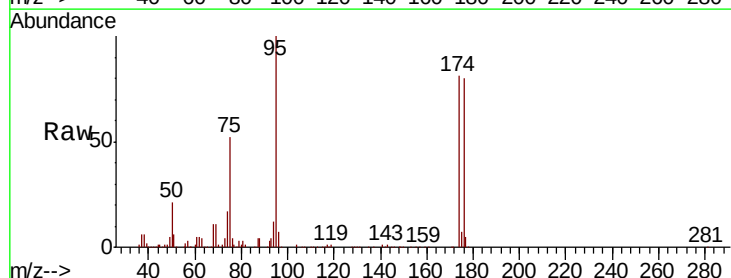
Tgt Ion: 95 Resp: 321034

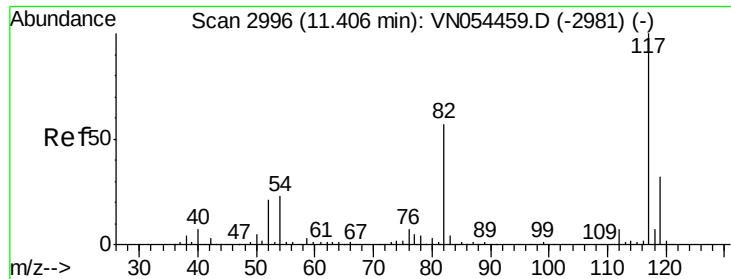
Ion Ratio Lower Upper

95 100

174 82.5 0.0 191.0

176 80.6 0.0 187.4

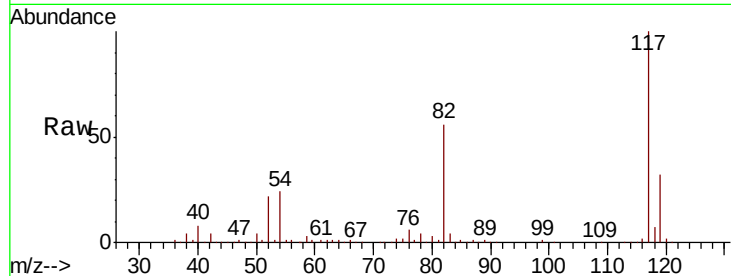




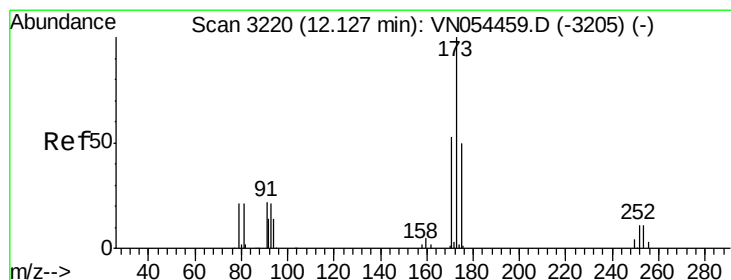
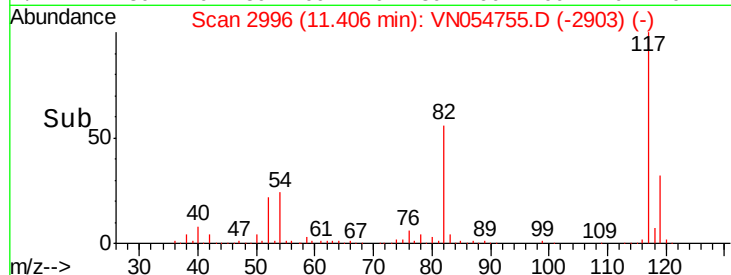
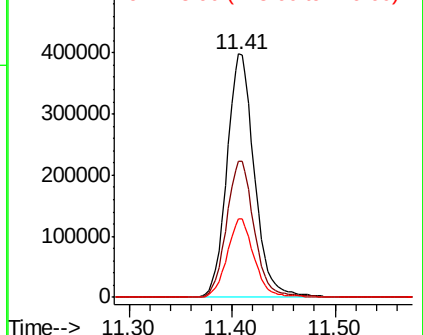
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054755.D
Acq: 28 Mar 2019 19:55

Instrument :
MSVOA_N
ClientSampled :
S5(23)

Tot Ion:117 Resp: 738960
Ion Ratio Lower Upper
117 100
82 56.1 40.0 60.0
119 32.1 25.8 38.6

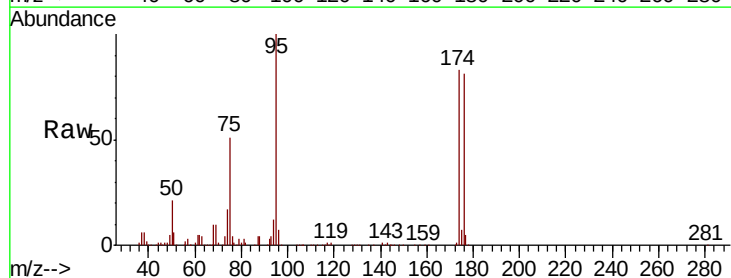


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

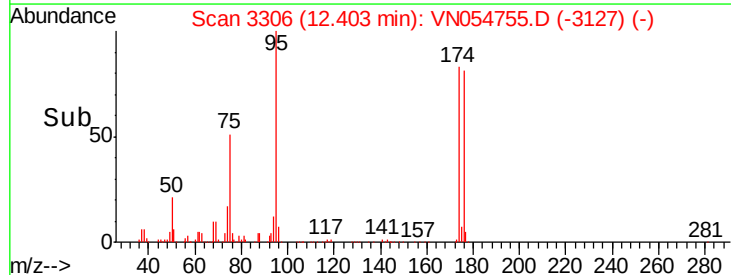
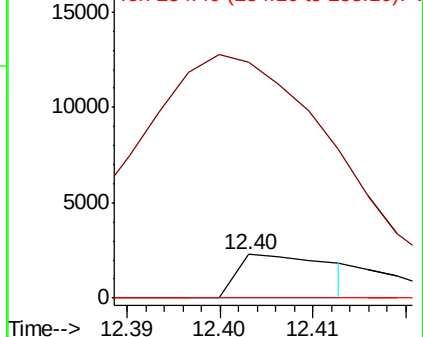


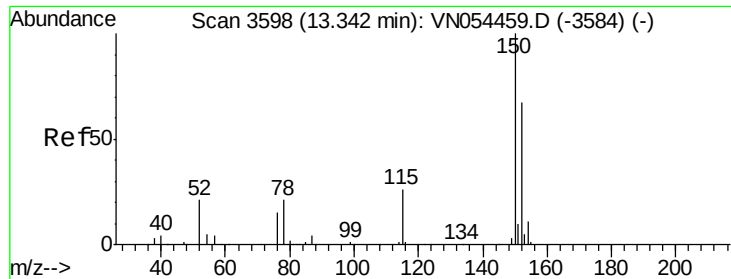
#71
Bromoform
Concen: 2.627 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN054755.D
Acq: 28 Mar 2019 19:55

Tgt Ion:173 Resp: 1582
Ion Ratio Lower Upper
173 100
175 1182.0 24.4 73.2#
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



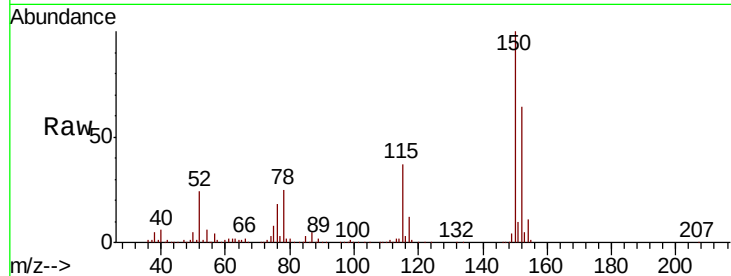


#72

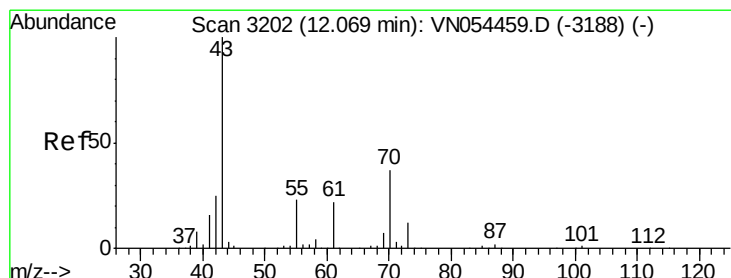
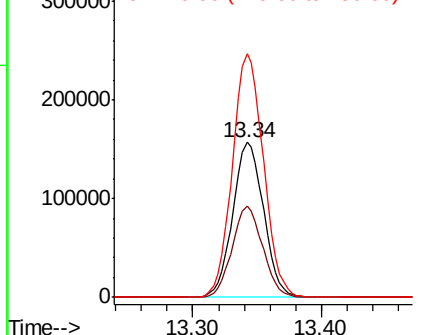
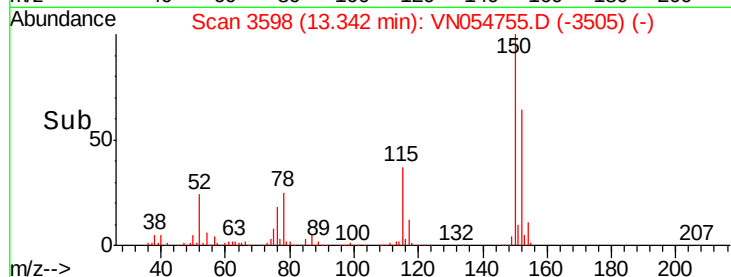
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054755.D
Acq: 28 Mar 2019 19:55

Instrument :
MSVOA_N
ClientSampleId :
S5(23)

Tot Ion:152 Resp: 260036
Ion Ratio Lower Upper
152 100
115 58.4 27.2 81.6
150 158.3 0.0 349.2



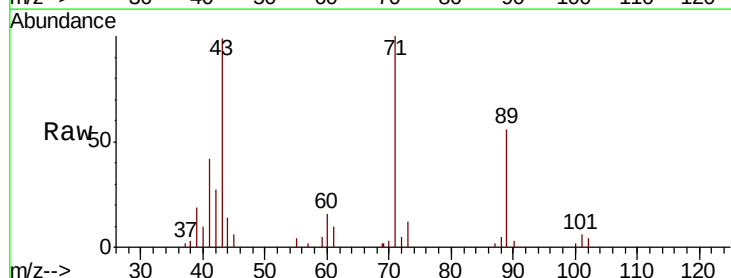
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



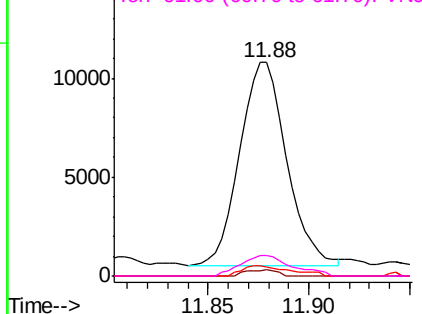
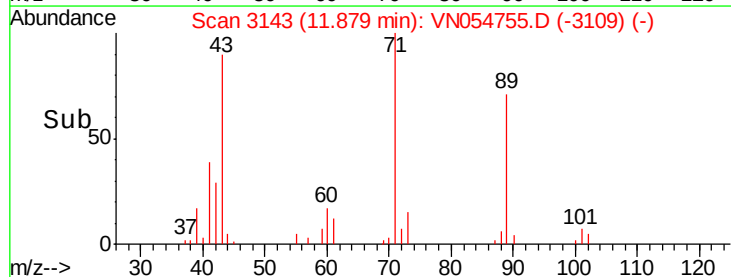
#74

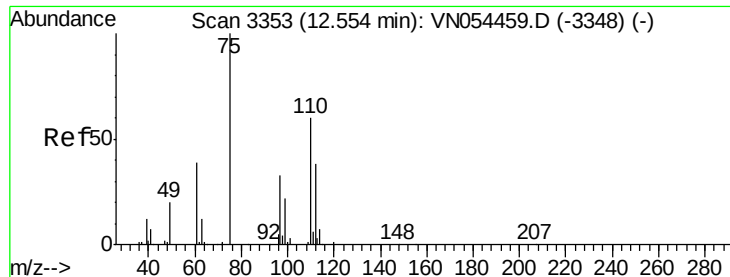
N-ethyl acetate
Concen: 2.779 ug/l
RT: 11.88 min Scan# 3143
Delta R.T. -0.19 min
Lab File: VN054755.D
Acq: 28 Mar 2019 19:55

Tgt Ion: 43 Resp: 16744
Ion Ratio Lower Upper
43 100
70 2.0 35.4 53.0#
55 5.1 19.8 29.6#
61 11.0 19.8 29.6#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 70.00 (69.70 to 70.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 40.431 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054755.D

Acq: 28 Mar 2019 19:55

Instrument :

MSVOA_N

ClientSampled :

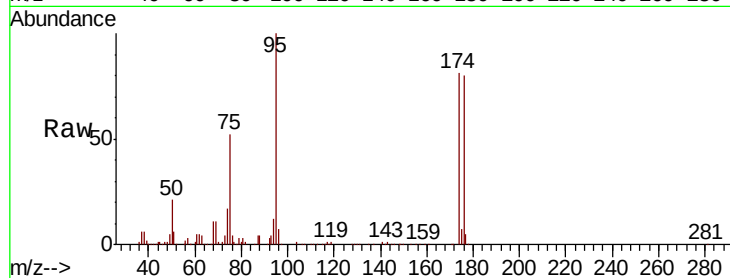
S5(23)

Tot Ion: 75 Resp: 166832

Ion Ratio Lower Upper

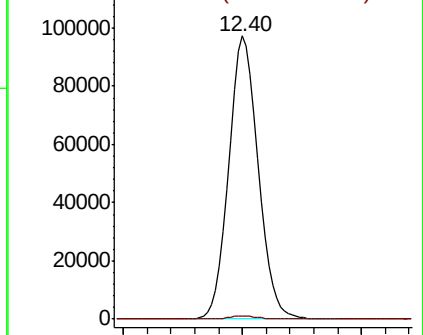
75 100

77 1.2 0.0 0.0#

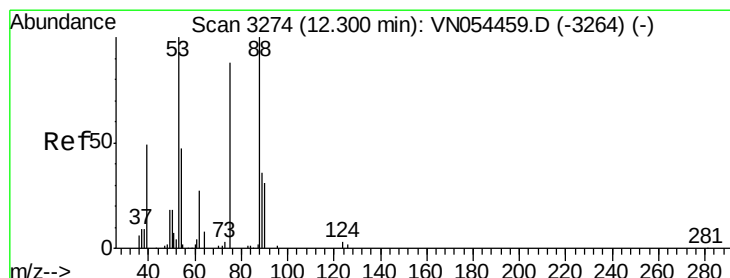
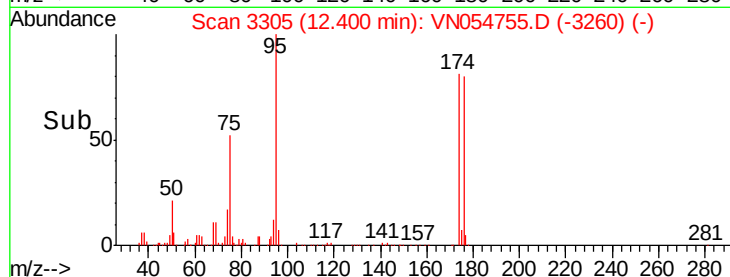


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 133.709 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054755.D

Acq: 28 Mar 2019 19:55

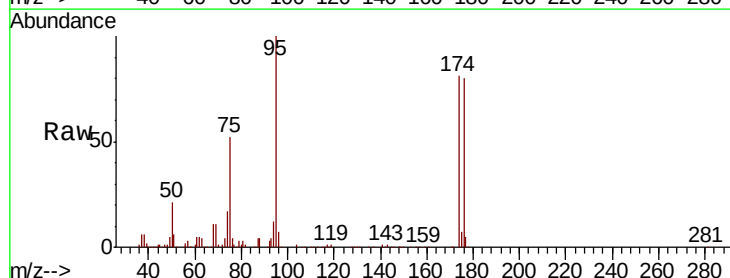
Tgt Ion: 75 Resp: 166832

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

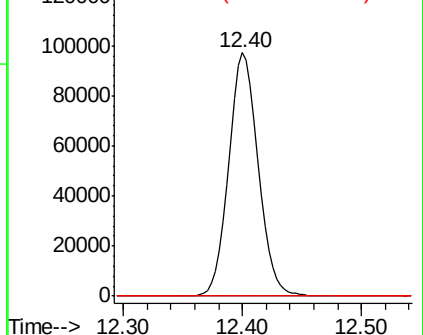
89 0.0 39.2 58.8#



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

