

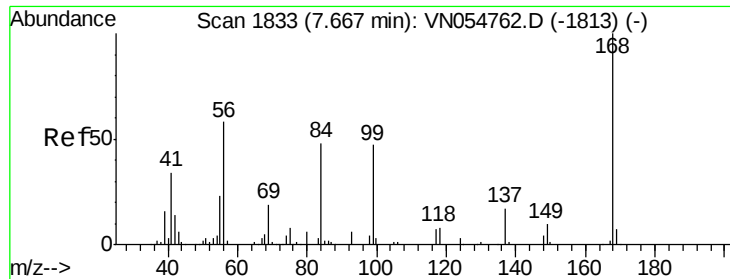
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033019\
 Data File : VN054814.D
 Acq On : 30 Mar 2019 20:25
 Operator : JC/SP
 Sample : K2138-18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 30 22:43:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	537926	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	881239	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	741971	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	274777	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	365611	50.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.84%	
35) Dibromofluoromethane	7.59	113	278500	47.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.80%	
50) Toluene-d8	10.09	98	1046392	47.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.82%	
62) 4-Bromofluorobenzene	12.40	95	324245	44.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.28%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.58	94	101	Below Cal	#	2
16) Acetone	3.82	43	9750	5.638	ug/l	92
18) Methyl Acetate	4.33	43	1982	Below Cal	#	65
20) Methylene Chloride	4.55	84	20166	3.306	ug/l #	88
25) 2-Butanone	6.85	43	675	0.264	ug/l #	46
31) Cyclohexane	7.66	56	11570	Below Cal	#	12
36) 1,1-Dichloropropene	7.66	75	40342	4.913	ug/l #	48
38) Carbon Tetrachloride	7.67	117	50839	6.374	ug/l #	15
43) Isopropyl Acetate	8.17	43	16202	1.656	ug/l	95
45) 1,2-Dichloropropane	9.27	63	1955	0.292	ug/l #	43
48) Methyl methacrylate	9.19	41	8886	1.675	ug/l #	11
49) 1,4-Dioxane	9.25	88	68	1.292	ug/l #	27
51) 4-Methyl-2-Pentanone	10.03	43	8883	1.615	ug/l #	36
54) cis-1,3-Dichloropropene	9.91	75	56702	6.442	ug/l #	72
57) 1,3-Dichloropropane	10.77	76	10543	1.180	ug/l #	43
59) 2-Hexanone	10.77	43	182882	51.933	ug/l #	48
71) Bromoform	12.40	173	1791	0.562	ug/l #	1
74) N-amyl acetate	11.88	43	17448	2.494	ug/l #	52
75) 1,1,2,2-Tetrachloroethane	12.40	83	221	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	173096	36.262	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	173096	141.049	ug/l #	11
83) tert-Butylbenzene	12.73	119	144	Below Cal	#	28
95) Naphthalene	15.14	128	2489	0.251	ug/l #	91

(#) = 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: VN054814.D

Acq: 30 Mar 2019 20:25

Instrument :

MSVOA_N

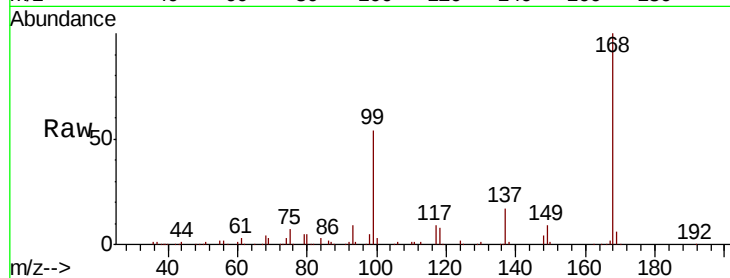
ClientSampled :

Tot Ion:168 Resp: 537926

Ion Ratio Lower Upper

168 100

99 54.5 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

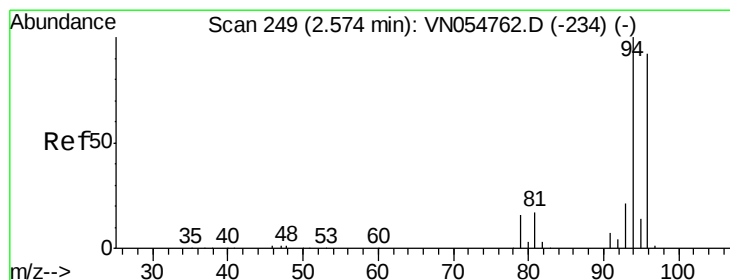
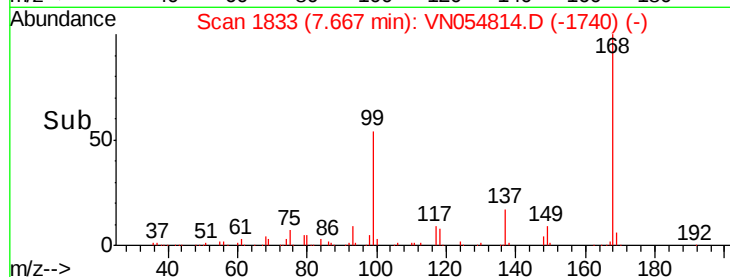
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 251

Delta R.T. 0.01 min

Lab File: VN054814.D

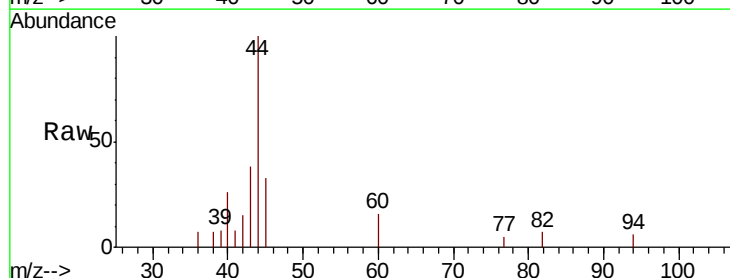
Acq: 30 Mar 2019 20:25

Tgt Ion: 94 Resp: 101

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.58

200

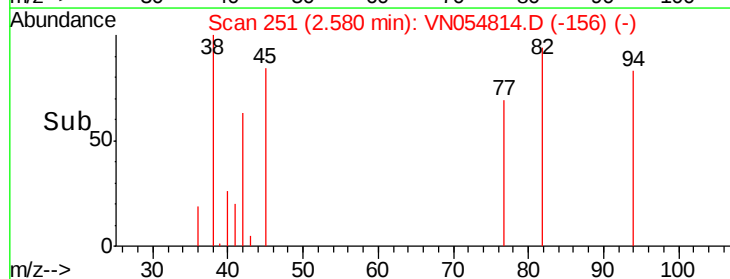
150

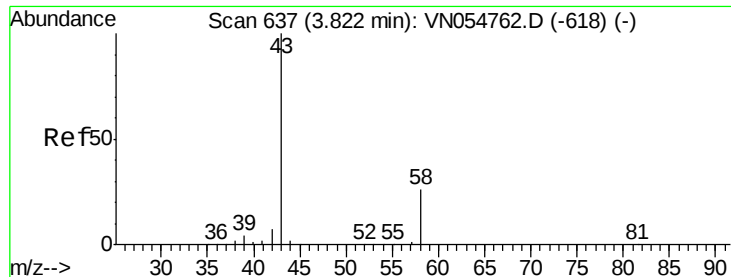
100

50

0

Time--> 2.57 2.58 2.59

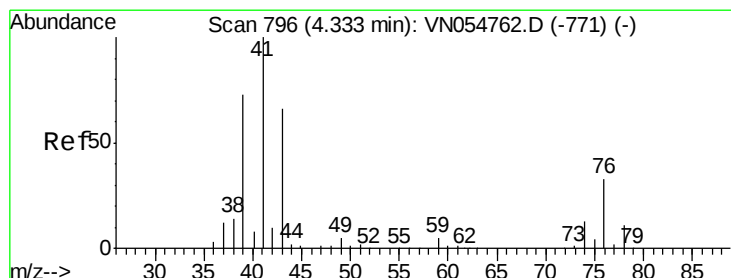
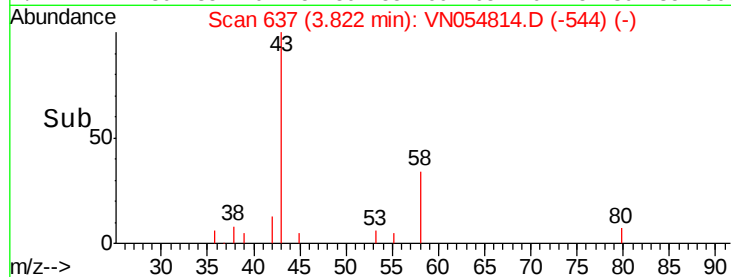
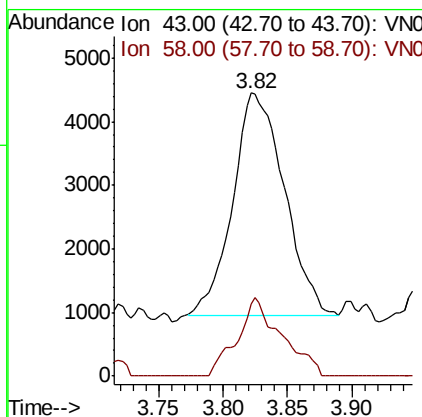
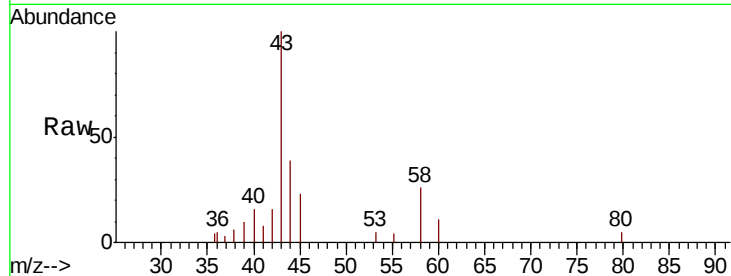




#16
Acetone
Concen: 5.638 ug/l
RT: 3.82 min Scan# 637
Delta R.T. 0.00 min
Lab File: VN054814.D
Acq: 30 Mar 2019 20:25

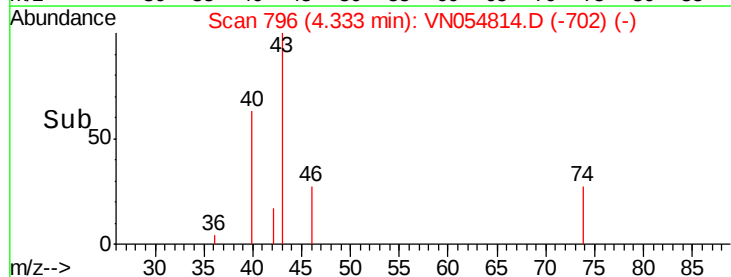
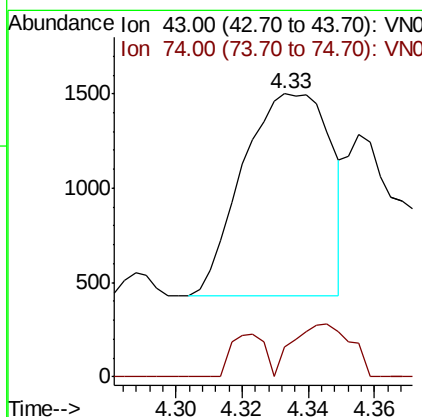
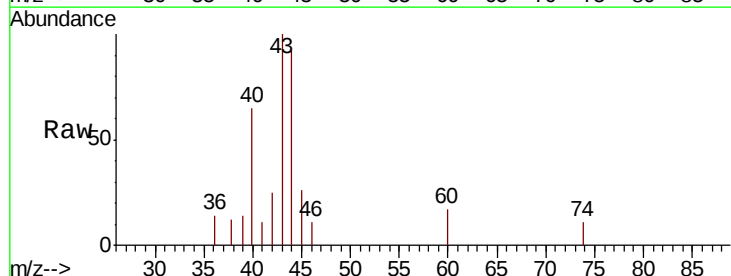
Instrument :
MSVOA_N
ClientSampled :

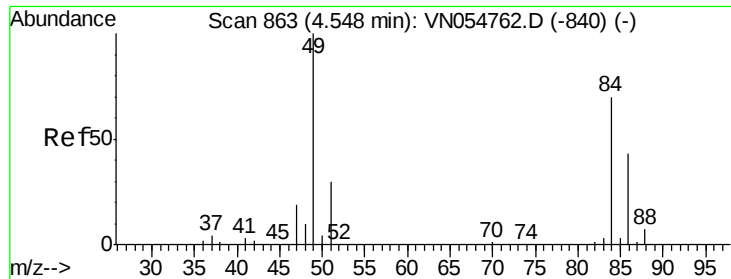
Tot Ion: 43 Resp: 9750
Ion Ratio Lower Upper
43 100
58 32.5 29.9 44.9



#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN054814.D
Acq: 30 Mar 2019 20:25

Tgt Ion: 43 Resp: 1982
Ion Ratio Lower Upper
43 100
74 7.9 20.8 31.2#

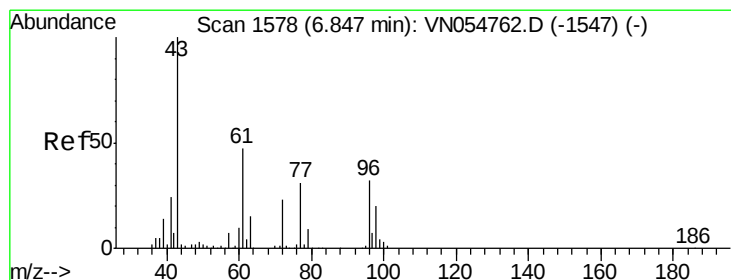
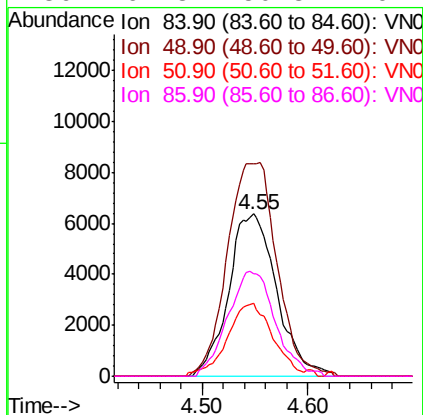
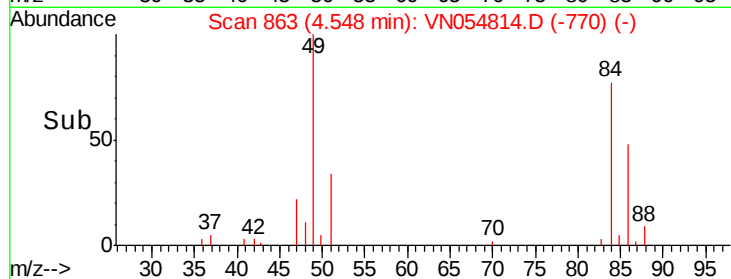
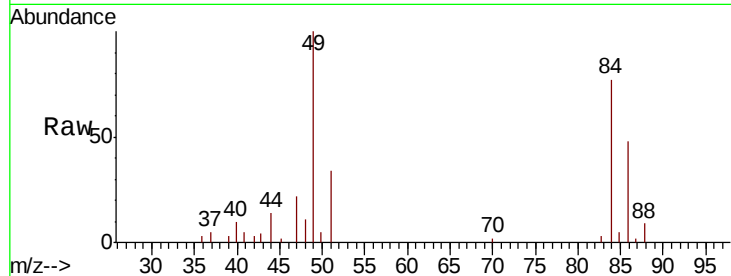




#20
Methvlene Chloride
Concen: 3.306 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054814.D
Acq: 30 Mar 2019 20:25

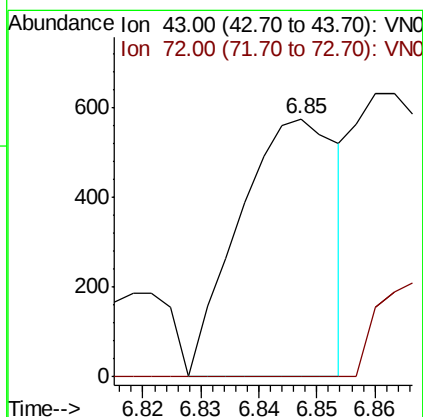
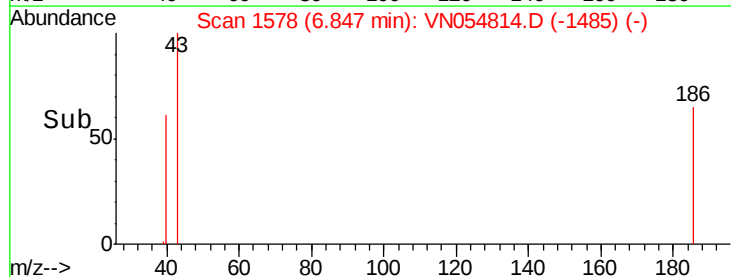
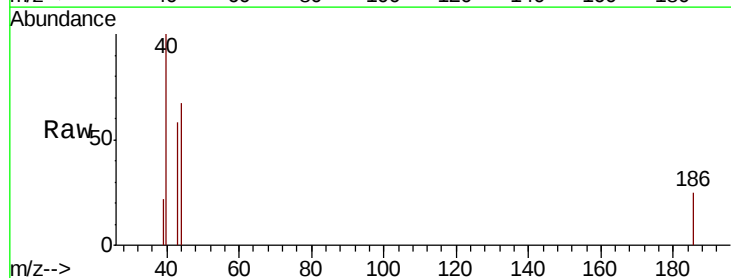
Instrument :
MSVOA_N
ClientSampled :

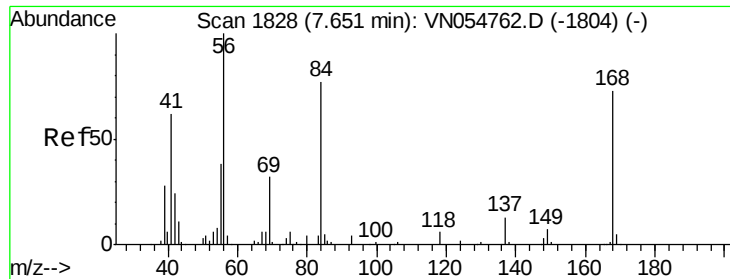
Tot Ion: 84 Resp: 20166
Ion Ratio Lower Upper
84 100
49 130.6 89.7 134.5
51 44.7 28.2 42.4#
86 62.8 50.8 76.2



#25
2-Butanone
Concen: 0.264 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.00 min
Lab File: VN054814.D
Acq: 30 Mar 2019 20:25

Tgt Ion: 43 Resp: 675
Ion Ratio Lower Upper
43 100
72 0.0 23.0 34.6#

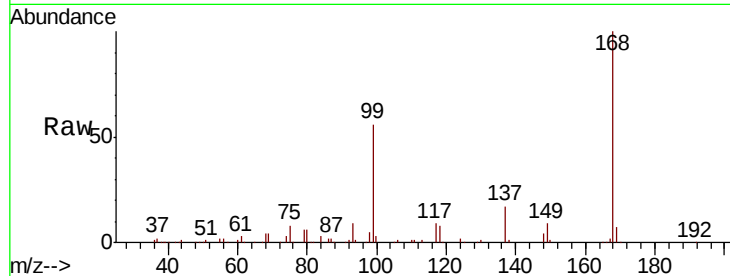




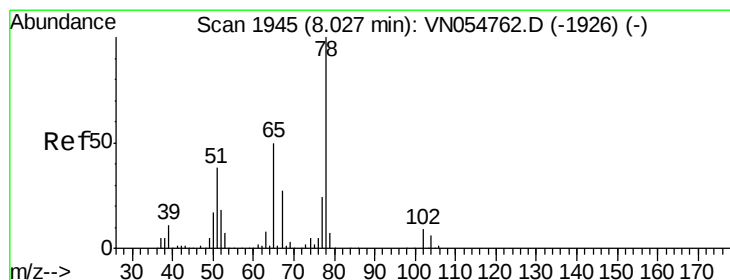
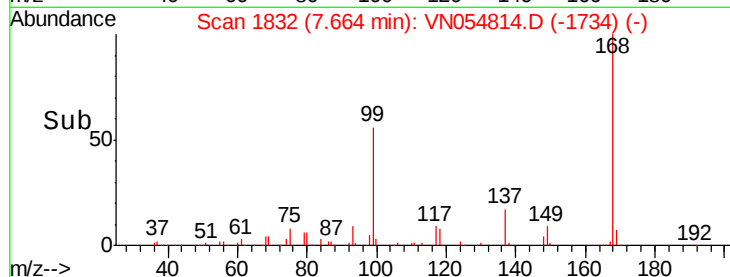
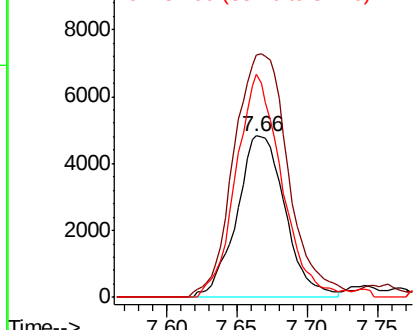
#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054814.D
Acq: 30 Mar 2019 20:25

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 11570
Ion Ratio Lower Upper
56 100
69 149.9 27.8 41.6#
84 138.3 74.6 111.8#

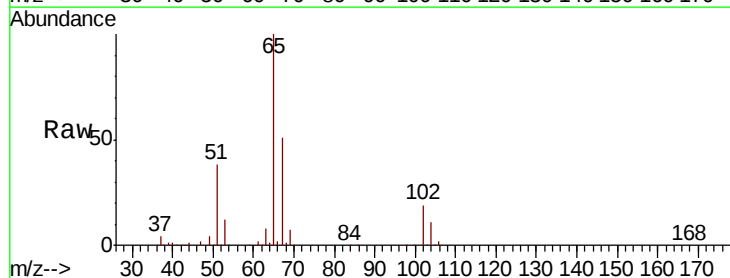


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

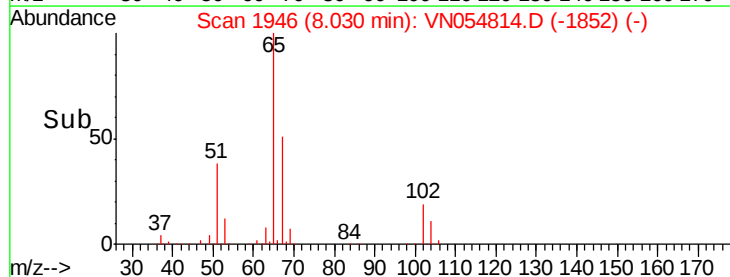
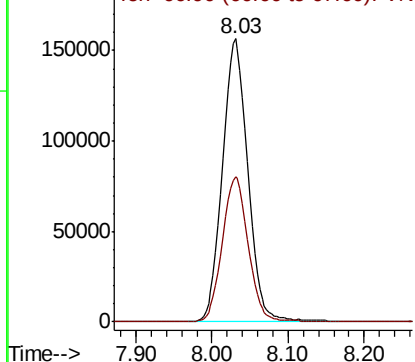


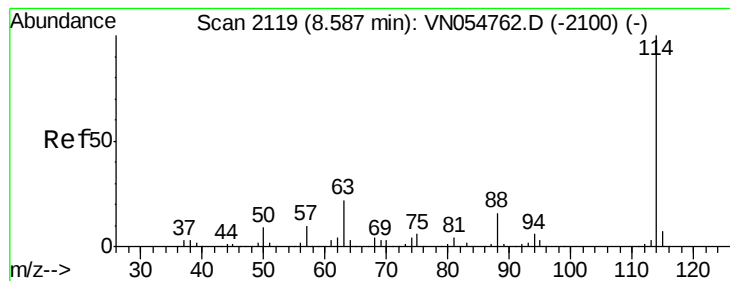
#33
1,2-Dichloroethane-d4
Concen: 50.420 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN054814.D
Acq: 30 Mar 2019 20:25

Tgt Ion: 65 Resp: 365611
Ion Ratio Lower Upper
65 100
67 52.3 0.0 104.6



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN054814.D

Acq: 30 Mar 2019 20:25

Instrument :

MSVOA_N

ClientSampleId :

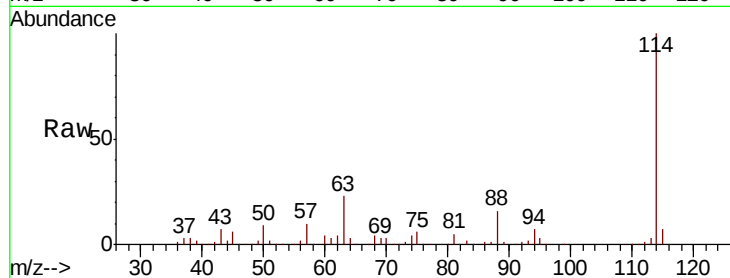
Tot Ion:114 Resp: 881239

Ion Ratio Lower Upper

114 100

63 22.6 0.0 35.2

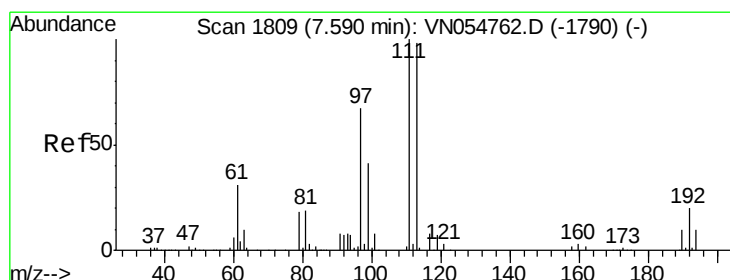
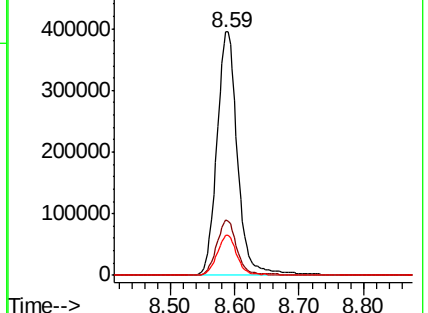
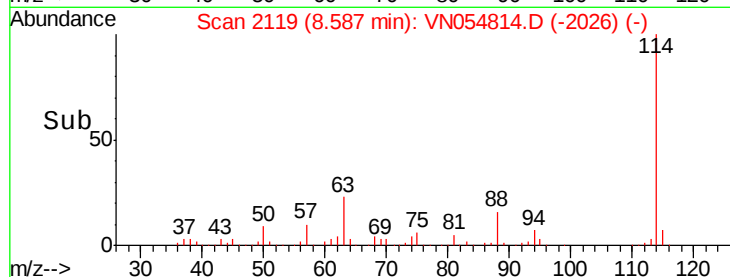
88 16.3 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 47.403 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054814.D

Acq: 30 Mar 2019 20:25

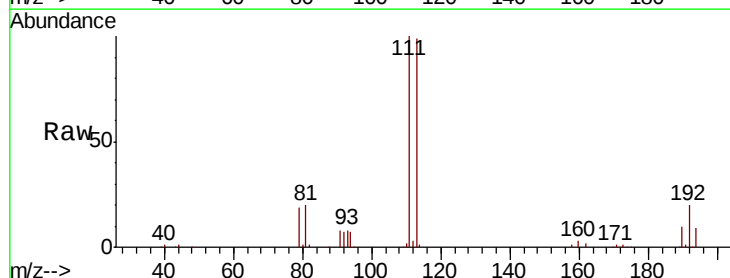
Tgt Ion:113 Resp: 278500

Ion Ratio Lower Upper

113 100

111 102.3 82.2 123.4

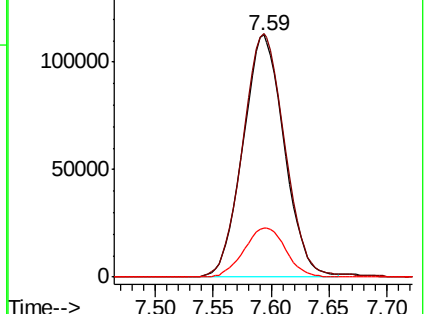
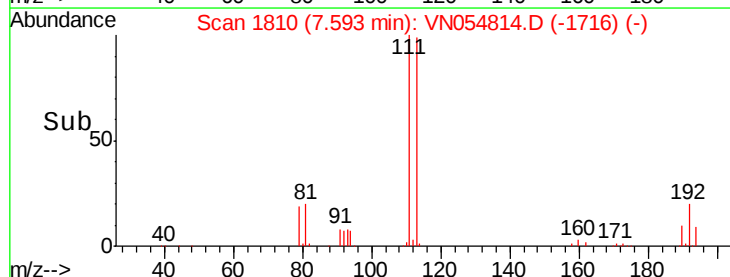
192 20.5 19.2 28.8

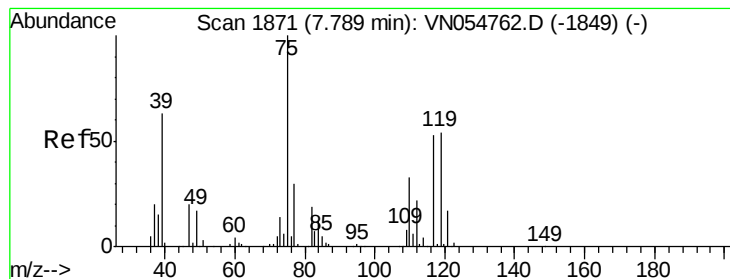


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.913 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054814.D

Acq: 30 Mar 2019 20:25

Instrument :

MSVOA_N

ClientSampleId :

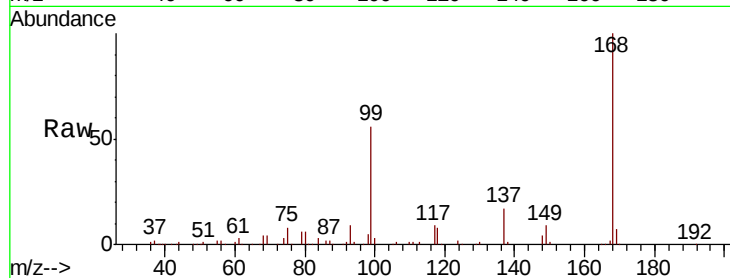
Tot Ion: 75 Resp: 40342

Ion Ratio Lower Upper

75 100

110 9.2 19.1 57.5#

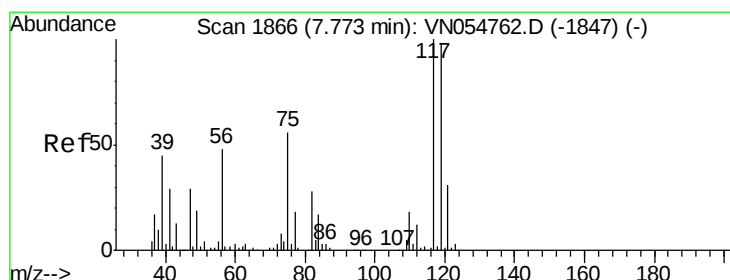
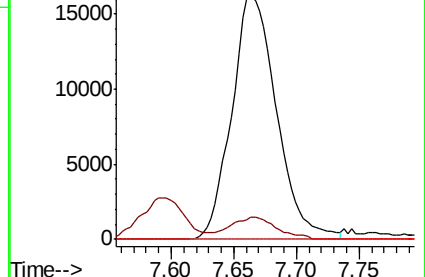
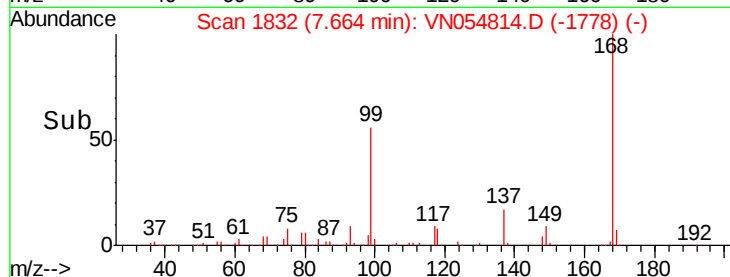
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN054814.D (-1778) (-)

Ion 109.90 (109.60 to 110.60): VN054814.D (-1778) (-)

Ion 76.90 (76.60 to 77.60): VN054814.D (-1778) (-)



#38

Carbon Tetrachloride

Concen: 6.374 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN054814.D

Acq: 30 Mar 2019 20:25

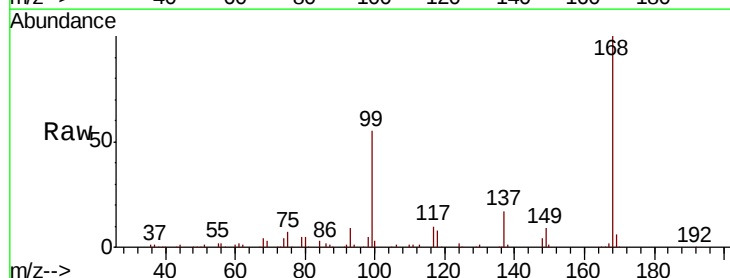
Tgt Ion: 117 Resp: 50839

Ion Ratio Lower Upper

117 100

119 3.2 76.3 114.5#

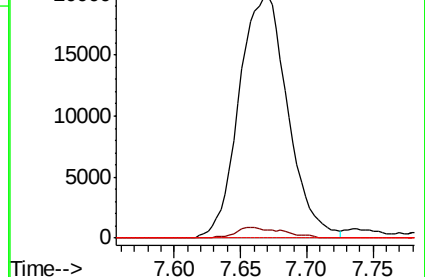
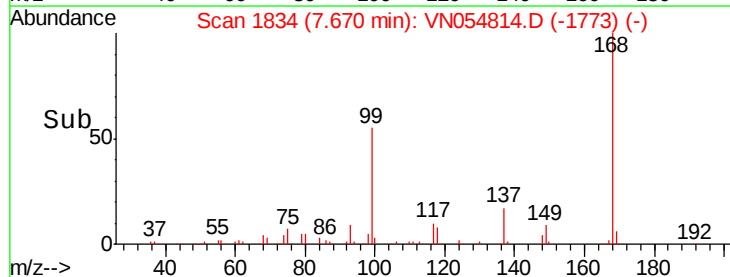
121 0.0 24.6 36.8#

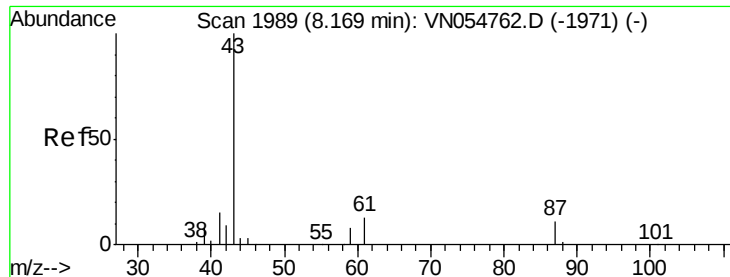


Abundance Ion 116.80 (116.50 to 117.50): VN054814.D (-1773) (-)

Ion 118.80 (118.50 to 119.50): VN054814.D (-1773) (-)

Ion 120.80 (120.50 to 121.50): VN054814.D (-1773) (-)





#43

Isopropyl Acetate

Concen: 1.656 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054814.D

Acq: 30 Mar 2019 20:25

Instrument :

MSVOA_N

ClientSampled :

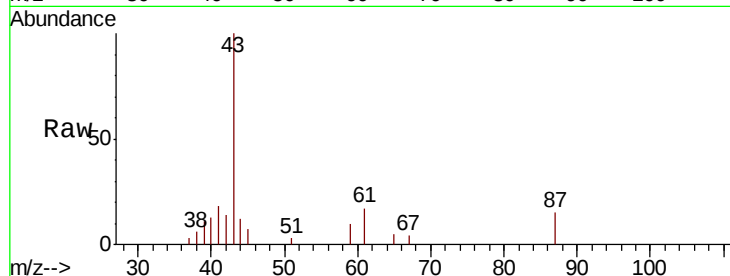
Tot Ion: 43 Resp: 16202

Ion Ratio Lower Upper

43 100

61 17.8 15.8 23.8

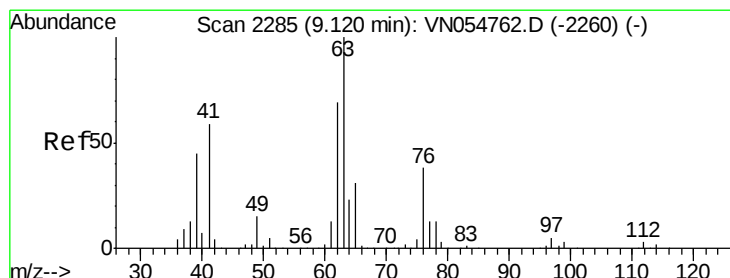
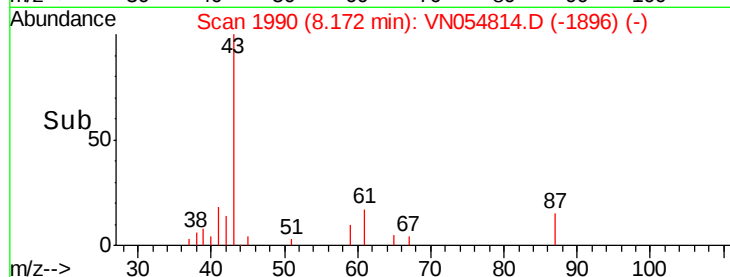
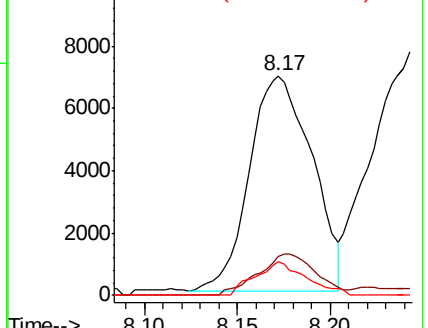
87 12.7 12.0 18.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.292 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN054814.D

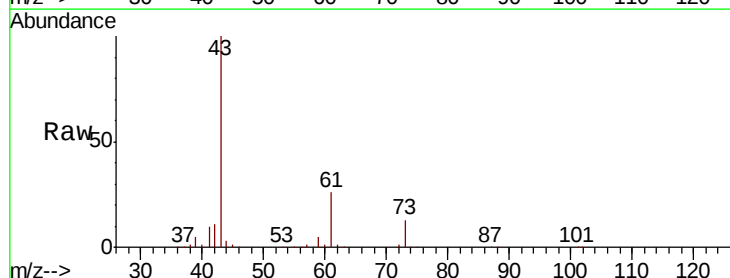
Acq: 30 Mar 2019 20:25

Tgt Ion: 63 Resp: 1955

Ion Ratio Lower Upper

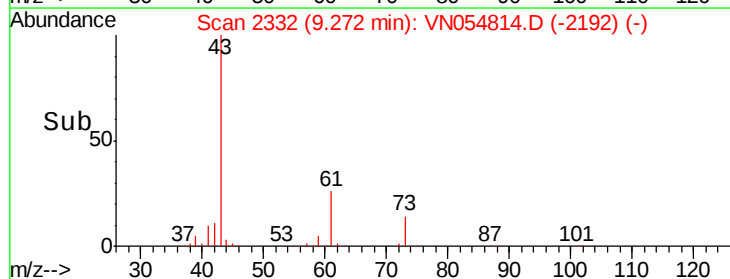
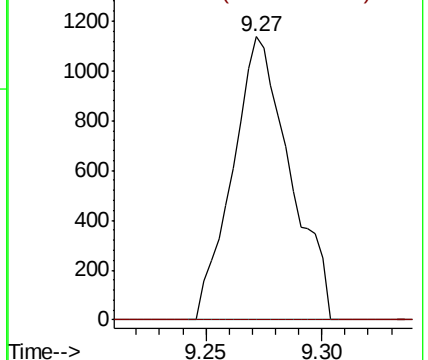
63 100

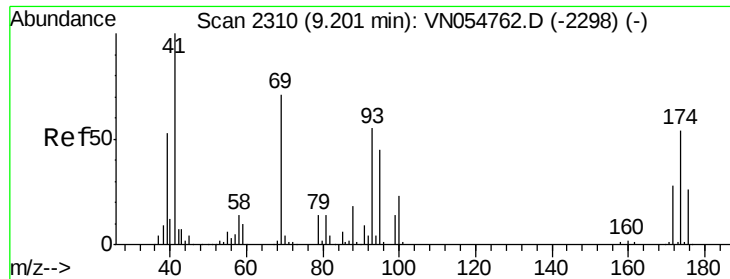
65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

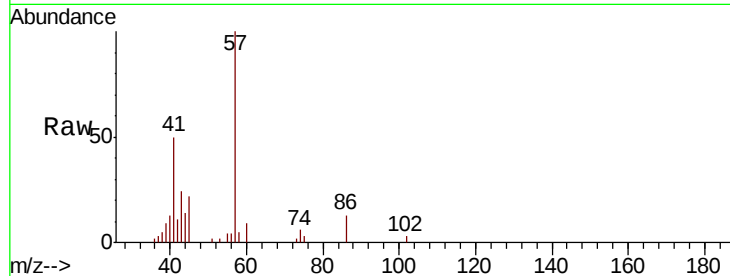




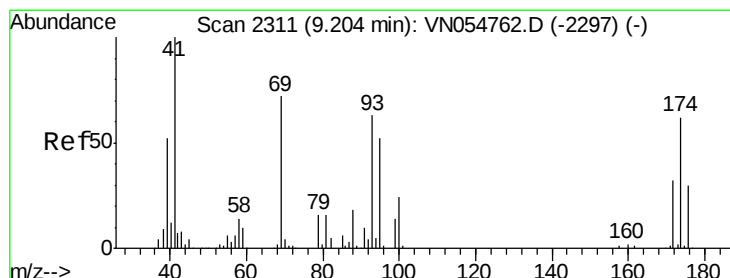
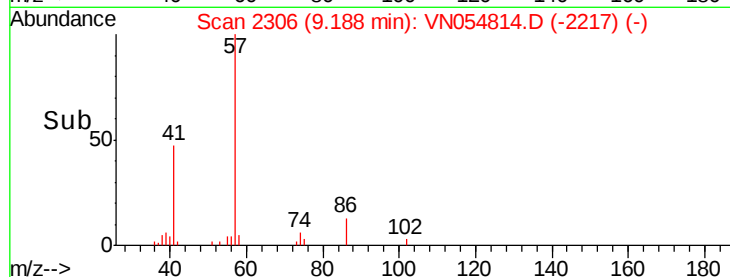
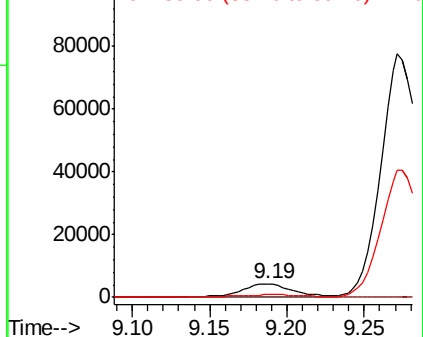
#48
Methyl methacrylate
Concen: 1.675 ug/l
RT: 9.19 min Scan# 2306
Delta R.T. -0.01 min
Lab File: VN054814.D
Acq: 30 Mar 2019 20:25

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 8886
Ion Ratio Lower Upper
41 100
69 0.0 72.6 108.8#
39 0.0 47.5 71.3#

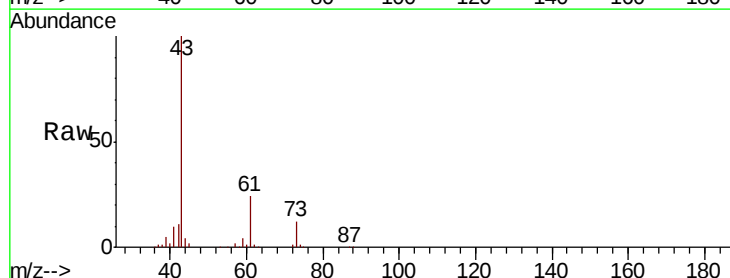


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

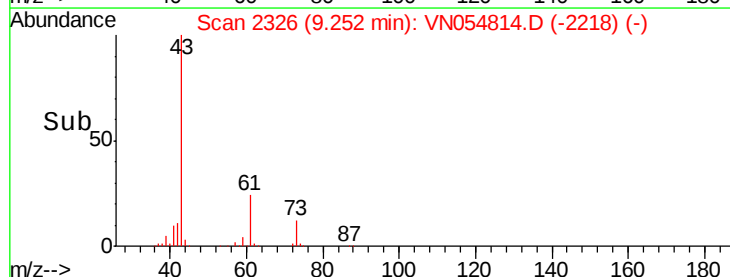
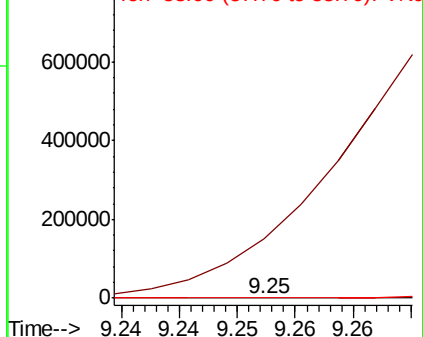


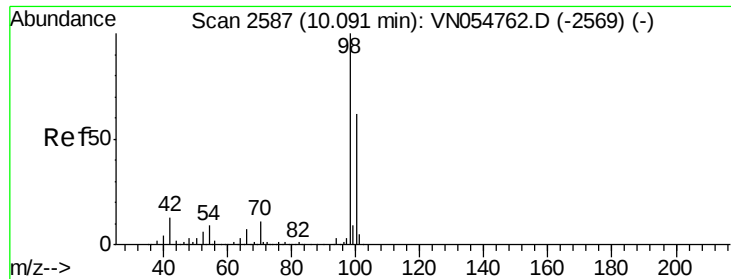
#49
1,4-Dioxane
Concen: 1.292 ug/l
RT: 9.25 min Scan# 2326
Delta R.T. 0.05 min
Lab File: VN054814.D
Acq: 30 Mar 2019 20:25

Tgt Ion: 88 Resp: 68
Ion Ratio Lower Upper
88 100
43 0.0 24.1 36.1#
58 0.0 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: 47.906 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054814.D

Acq: 30 Mar 2019 20:25

Instrument :

MSVOA_N

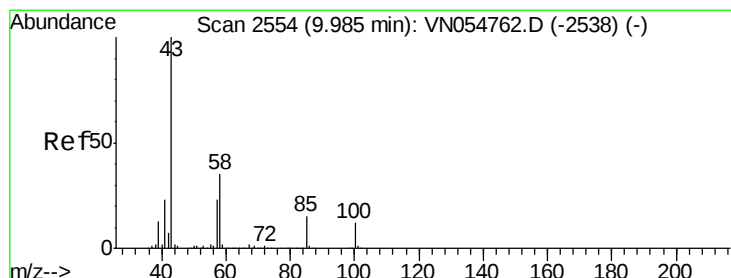
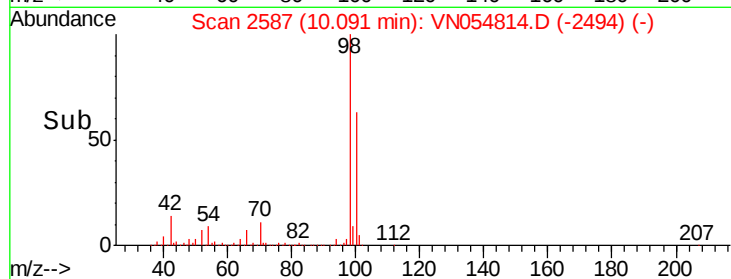
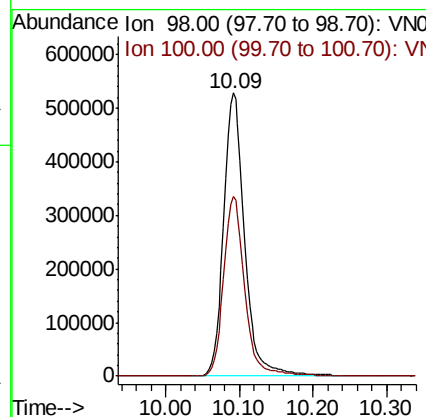
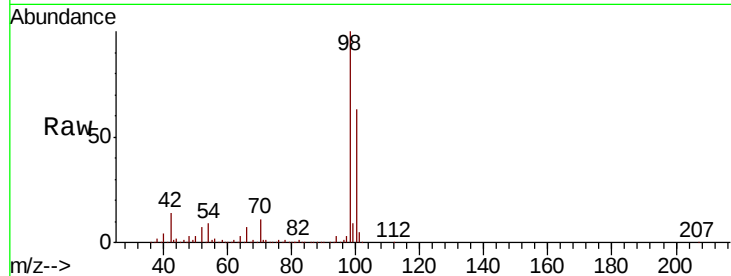
ClientSampled :

Tot Ion: 98 Resp: 1046392

Ion Ratio Lower Upper

98 100

100 64.1 51.2 76.8



#51

4-Methyl-2-Pentanone

Concen: 1.615 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN054814.D

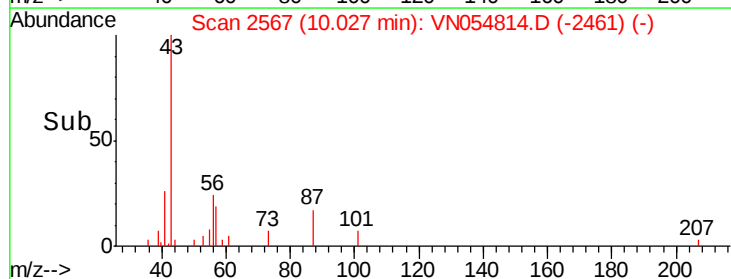
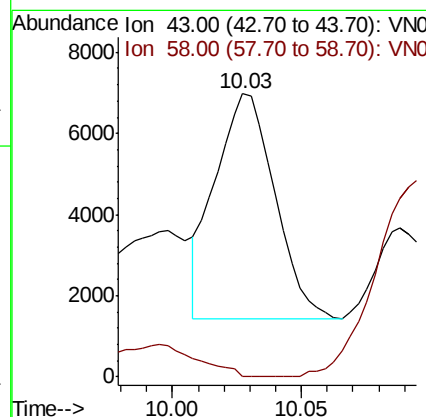
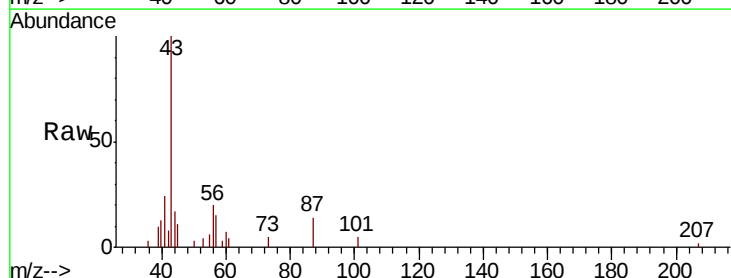
Acq: 30 Mar 2019 20:25

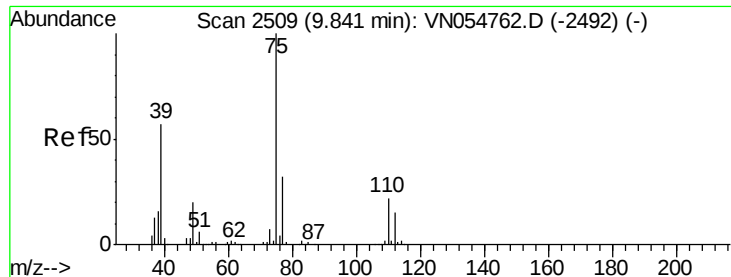
Tgt Ion: 43 Resp: 8883

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.6#



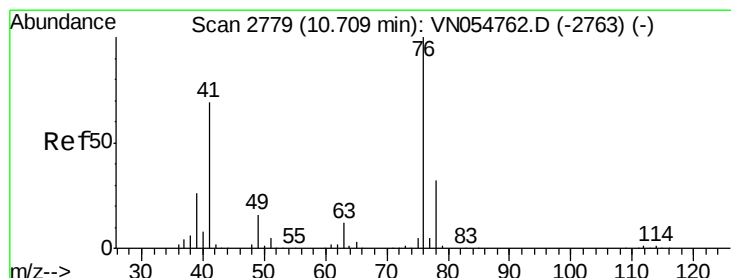
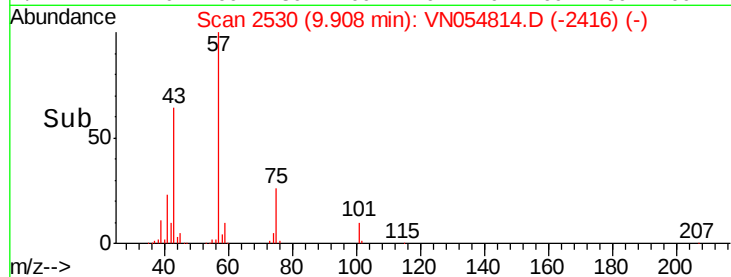
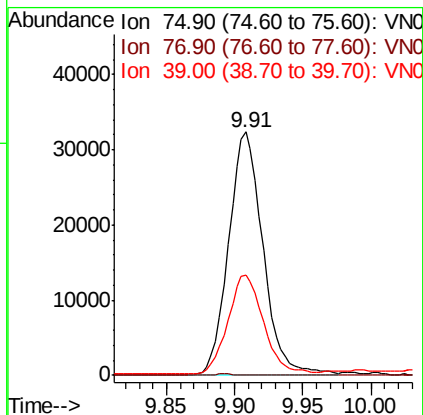
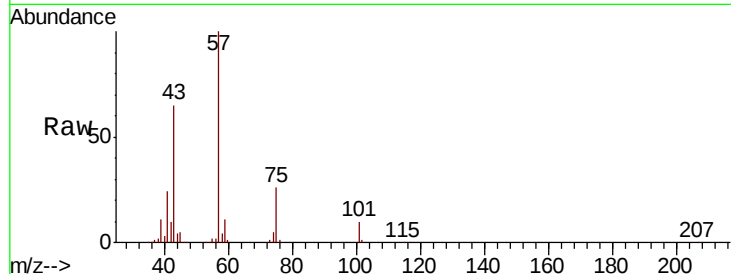


#54

cis-1,3-Dichloropropene
 Concen: 6.442 ug/l
 RT: 9.91 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN054814.D
 Acq: 30 Mar 2019 20:25

Instrument :
 MSVOA_N
 ClientSampleId :

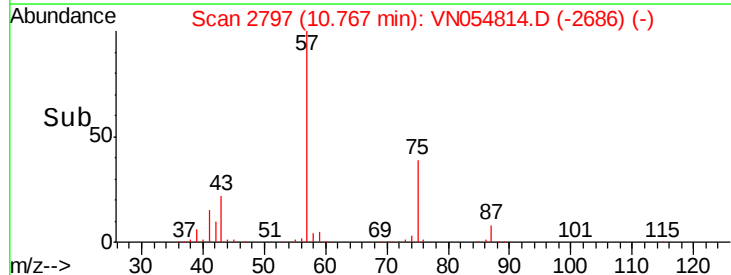
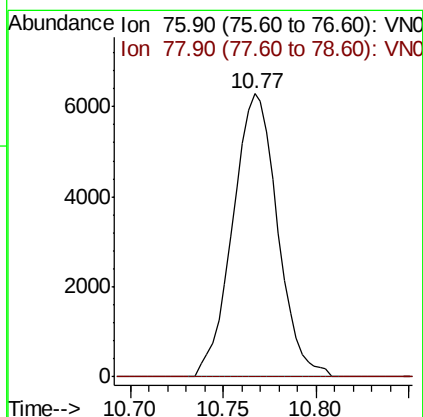
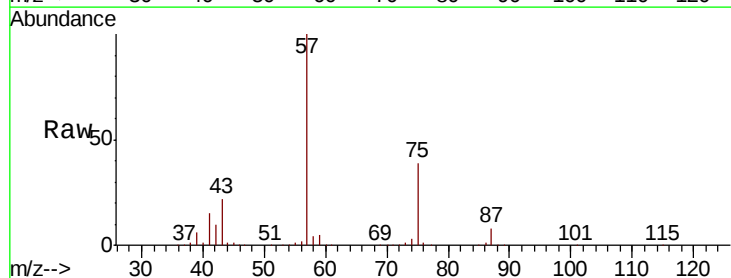
Tot Ion: 75 Resp: 56702
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 40.8 37.2 55.8

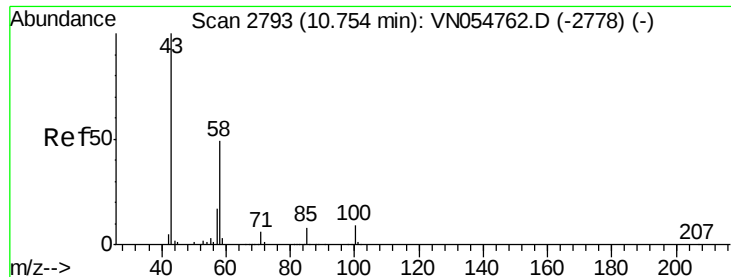


#57

1,3-Dichloropropane
 Concen: 1.180 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN054814.D
 Acq: 30 Mar 2019 20:25

Tgt Ion: 76 Resp: 10543
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#





#59

2-Hexanone

Concen: 51.933 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN054814.D

Acq: 30 Mar 2019 20:25

Instrument :

MSVOA_N

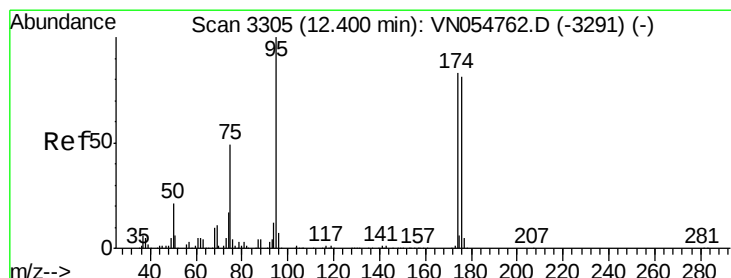
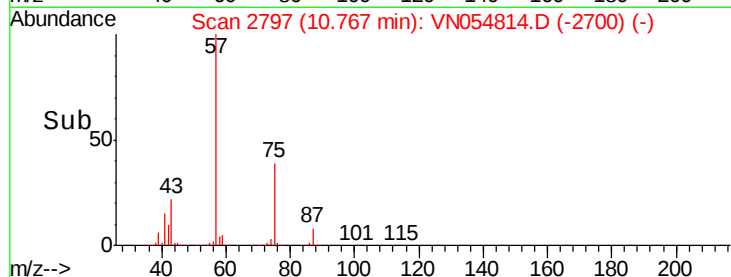
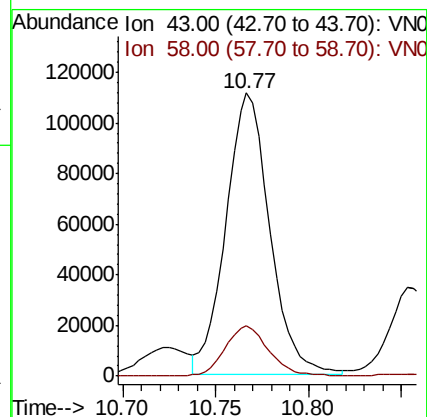
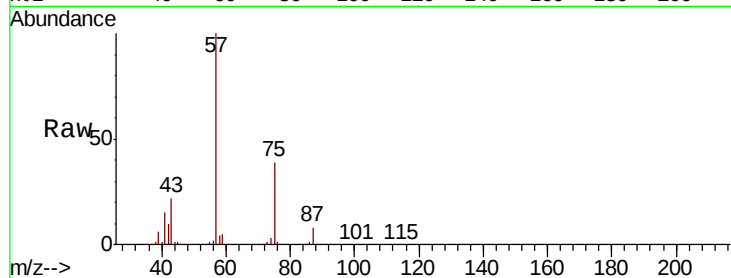
ClientSampleId :

Tot Ion: 43 Resp: 182882

Ion Ratio Lower Upper

43 100

58 17.8 28.0 83.9#



#62

4-Bromofluorobenzene

Concen: 44.635 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054814.D

Acq: 30 Mar 2019 20:25

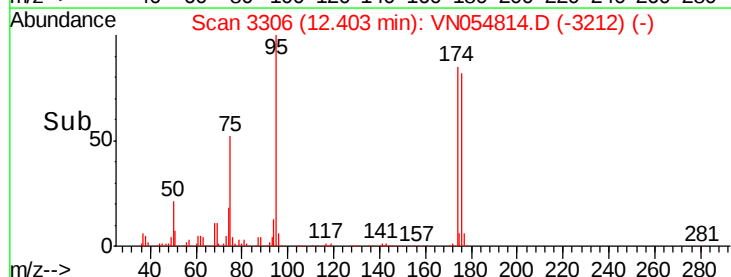
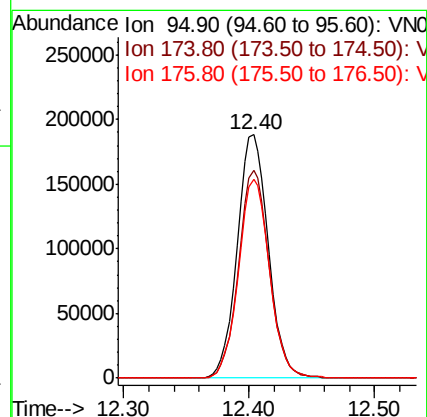
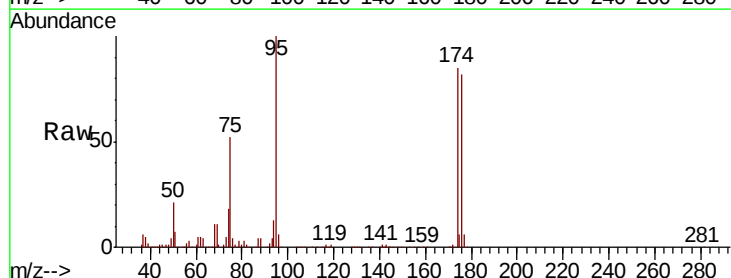
Tgt Ion: 95 Resp: 324245

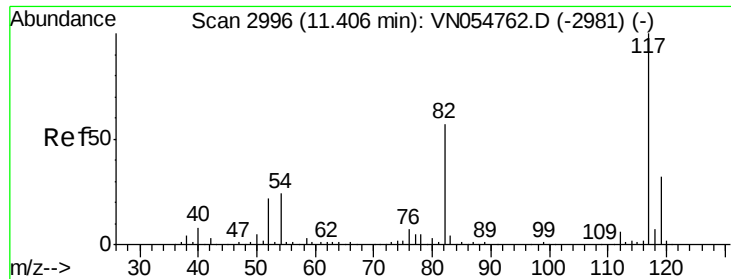
Ion Ratio Lower Upper

95 100

174 84.2 0.0 191.0

176 81.6 0.0 187.4

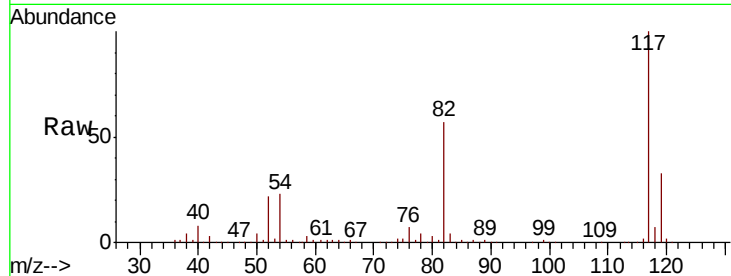




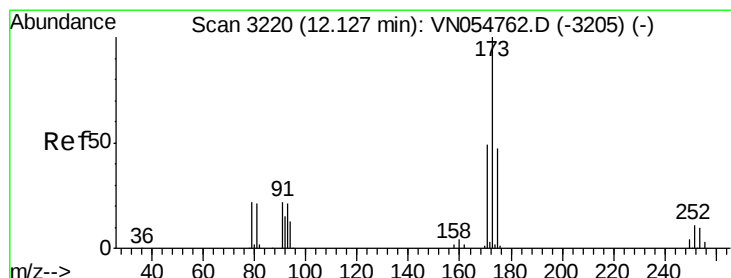
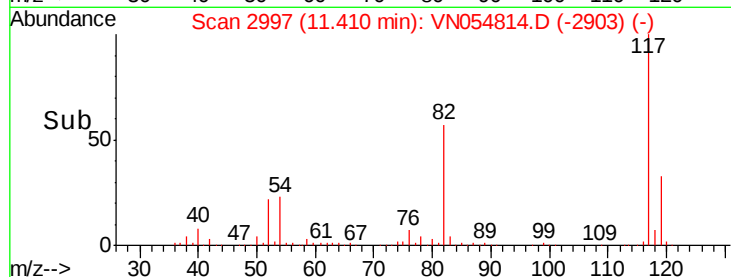
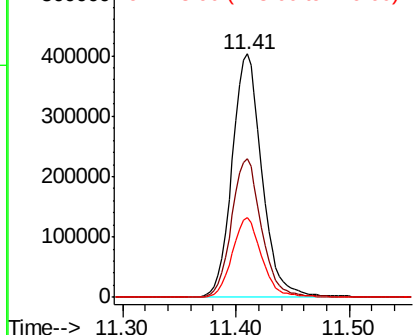
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN054814.D
Acq: 30 Mar 2019 20:25

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 741971
Ion Ratio Lower Upper
117 100
82 56.7 40.0 60.0
119 32.5 25.8 38.6

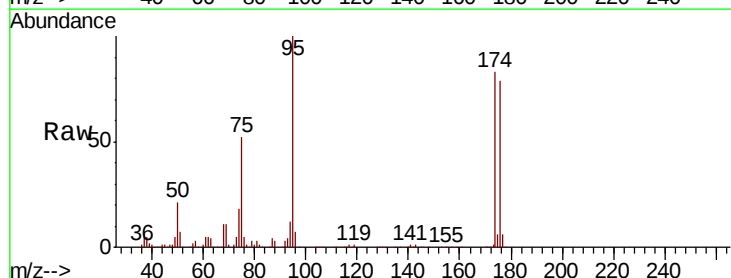


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

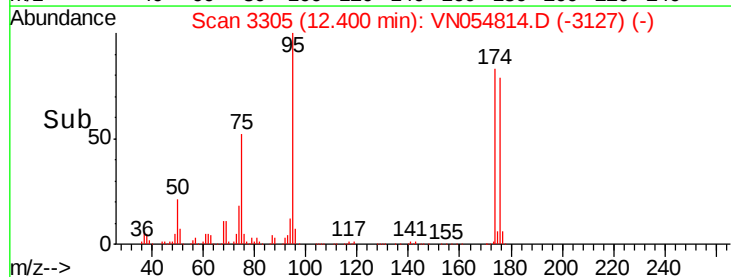
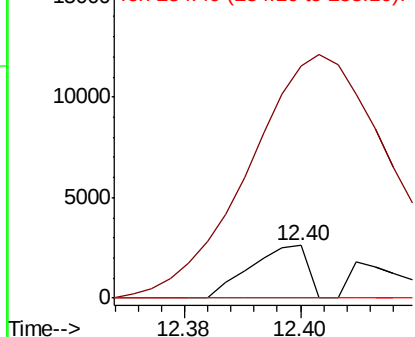


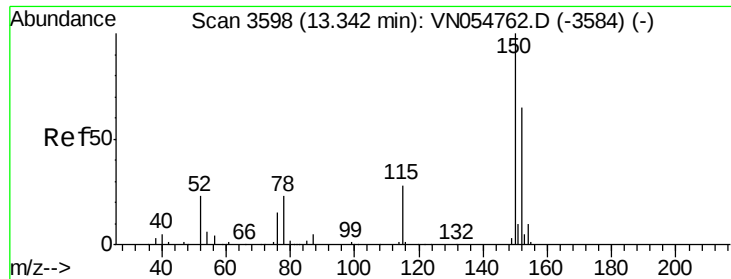
#71
Bromoform
Concen: 0.562 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN054814.D
Acq: 30 Mar 2019 20:25

Tgt Ion:173 Resp: 1791
Ion Ratio Lower Upper
173 100
175 955.1 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



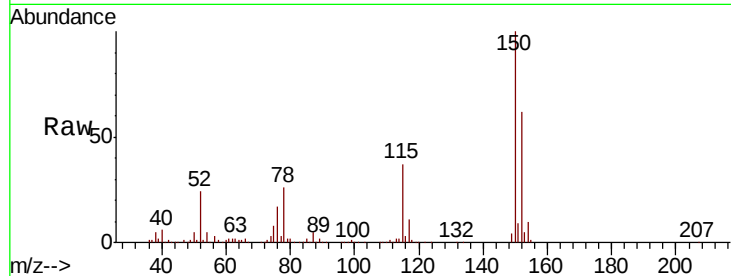


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN054814.D
Acq: 30 Mar 2019 20:25

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	58.4	27.2	81.6
150	158.1	0.0	349.2

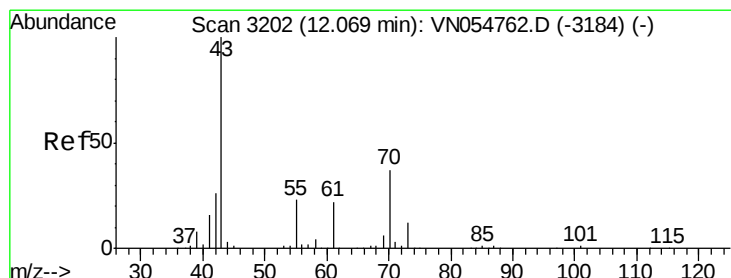
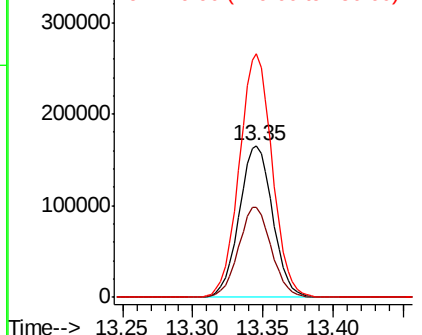
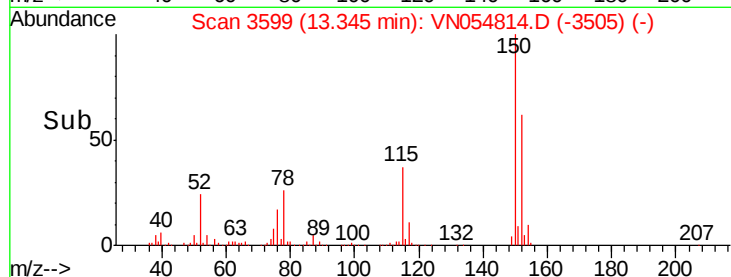


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

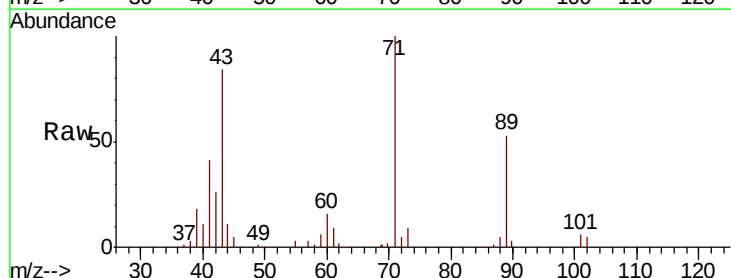
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate
Concen: 2.494 ug/l
RT: 11.88 min Scan# 3143
Delta R.T. -0.19 min
Lab File: VN054814.D
Acq: 30 Mar 2019 20:25

Tgt Ion	Ratio	Lower	Upper
43	100		
70	2.1	35.4	53.0#
55	5.2	19.8	29.6#
61	11.6	19.8	29.6#



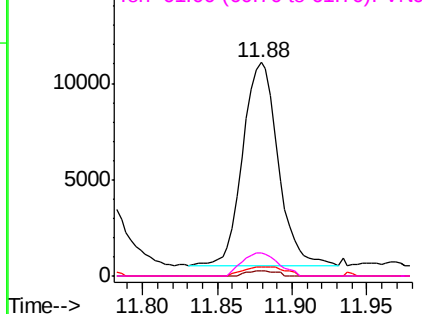
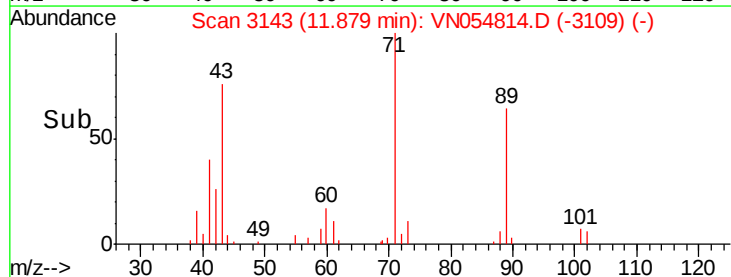
Abundance

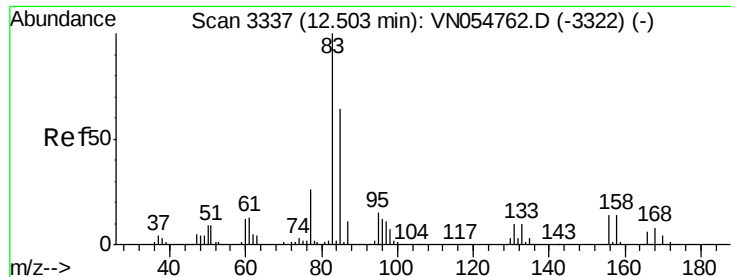
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

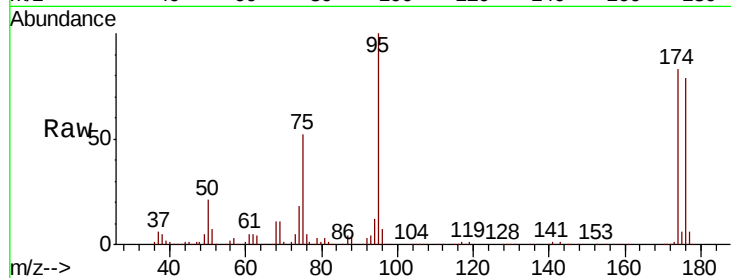




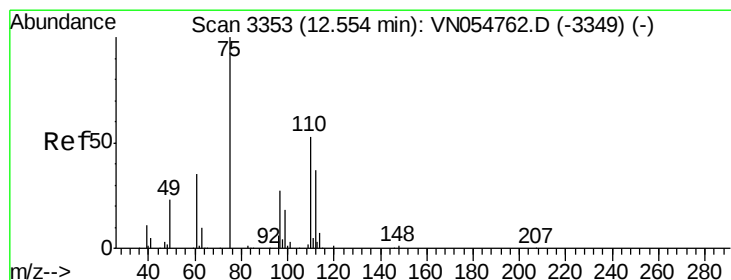
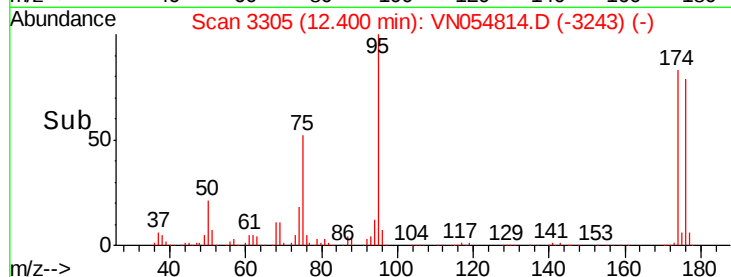
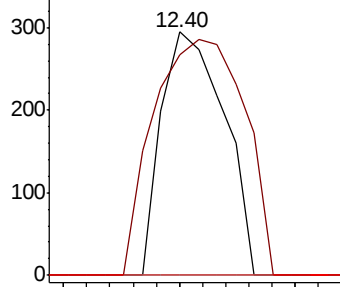
#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.10 min
 Lab File: VN054814.D
 Acq: 30 Mar 2019 20:25

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 83 Resp: 221
 Ion Ratio Lower Upper
 83 100
 131 140.7 5.8 17.4#
 85 0.0 32.2 96.6#

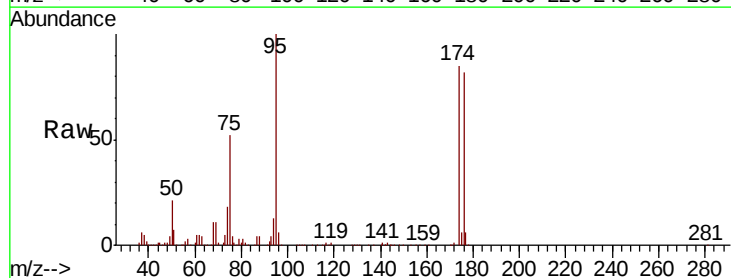


Abundance Ion 82.90 (82.60 to 83.60): VN0
 Ion 130.80 (130.50 to 131.50): V
 Ion 84.90 (84.60 to 85.60): VN0

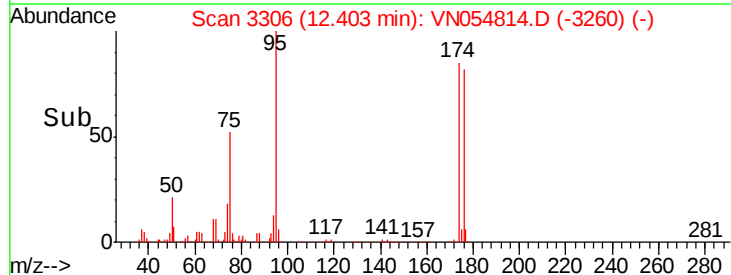
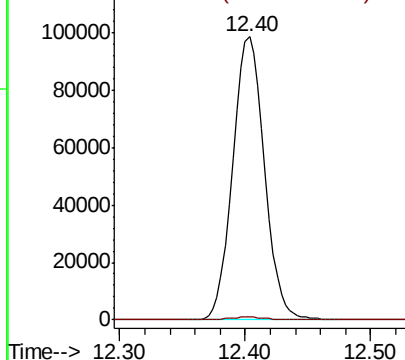


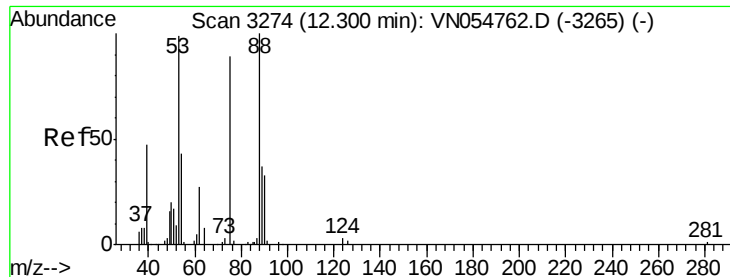
#76
 1,2,3-Trichloropropane
 Concen: 36.262 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.15 min
 Lab File: VN054814.D
 Acq: 30 Mar 2019 20:25

Tgt Ion: 75 Resp: 173096
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 141.049 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN054814.D

Acq: 30 Mar 2019 20:25

Instrument :

MSVOA_N

ClientSampled :

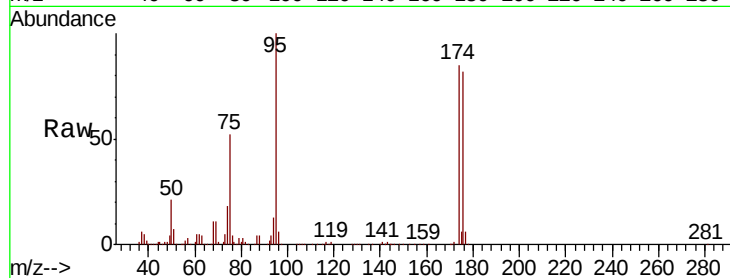
Tot Ion: 75 Resp: 173096

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

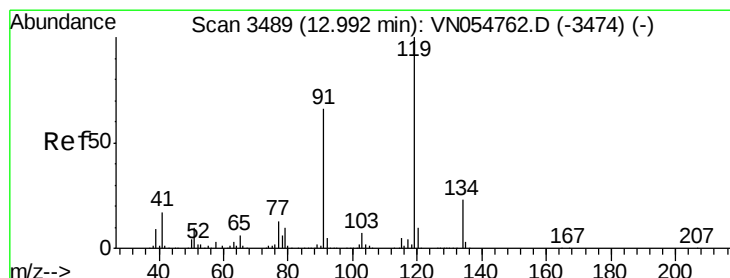
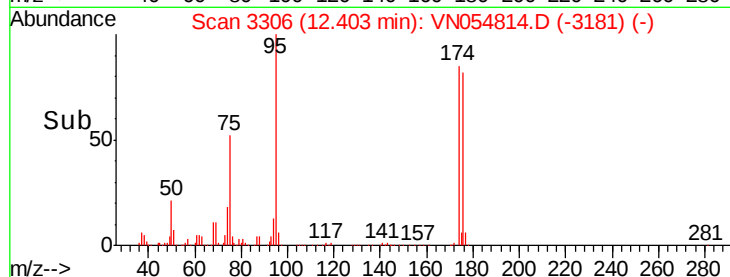
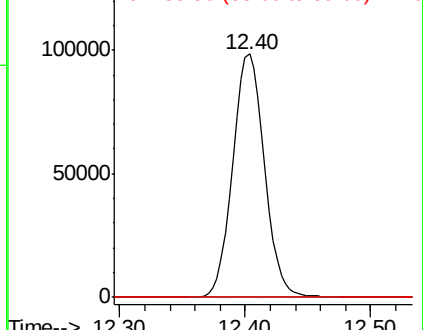
89 0.0 39.2 58.8#



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



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3408

Delta R.T. -0.26 min

Lab File: VN054814.D

Acq: 30 Mar 2019 20:25

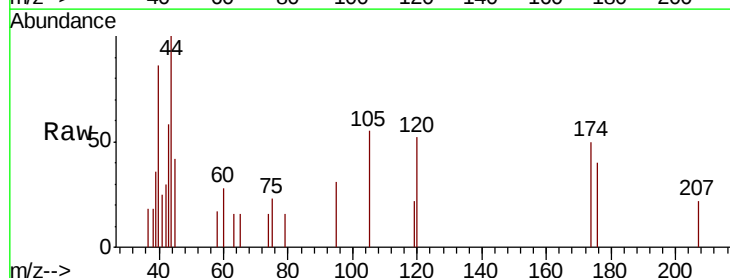
Tgt Ion: 119 Resp: 144

Ion Ratio Lower Upper

119 100

91 0.0 30.9 92.8#

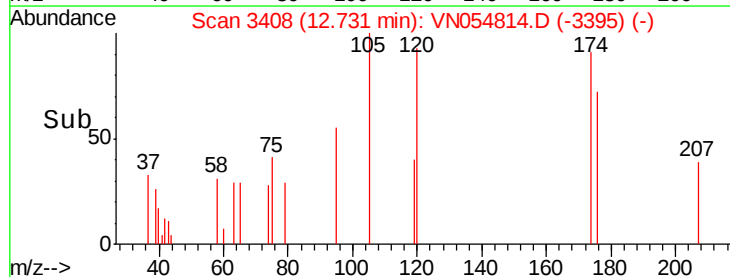
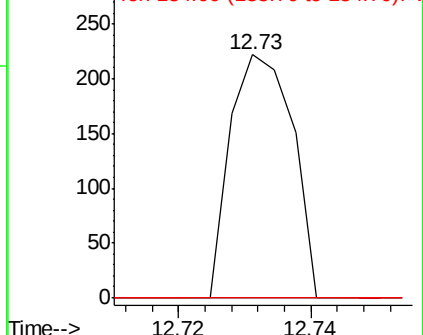
134 0.0 13.2 39.6#

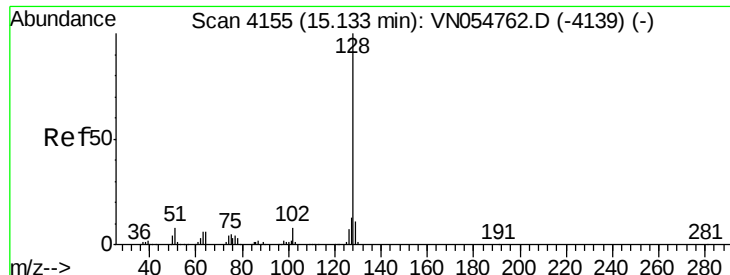


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN0

Ion 134.00 (133.70 to 134.70): V





#95

Naphthalene

Concen: 0.251 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

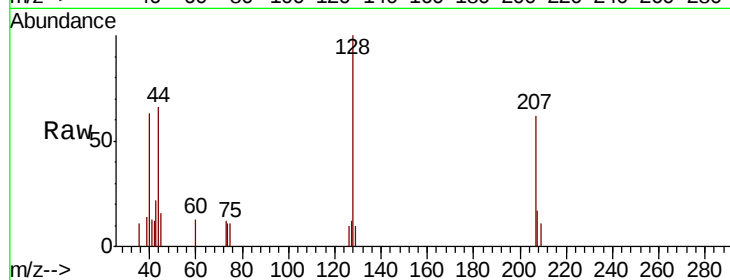
Lab File: VN054814.D

Acq: 30 Mar 2019 20:25

Instrument :

MSVOA_N

ClientSampleId :



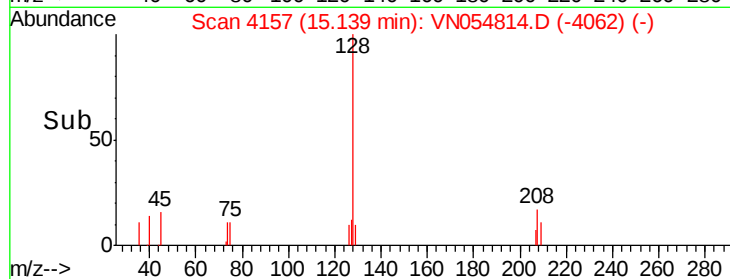
Tot Ion:128 Resp: 2489

Ion Ratio Lower Upper

128 100

127 11.9 10.1 15.1

129 4.2 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

