

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040219\
 Data File : VN054903.D
 Acq On : 2 Apr 2019 15:50
 Operator : JC/SP
 Sample : K2213-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 03 05:06:54 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	7.66	168	514312	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	856151	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	739007	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	257757	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	340362	49.09	ug/l	0.00
Spiked Amount			Recovery	=	98.18%	
35) Dibromofluoromethane	7.59	113	271945	47.64	ug/l	0.00
Spiked Amount			Recovery	=	95.28%	
50) Toluene-d8	10.09	98	1034435	48.75	ug/l	0.00
Spiked Amount			Recovery	=	97.50%	
62) 4-Bromofluorobenzene	12.40	95	314762	44.60	ug/l	0.00
Spiked Amount			Recovery	=	89.20%	

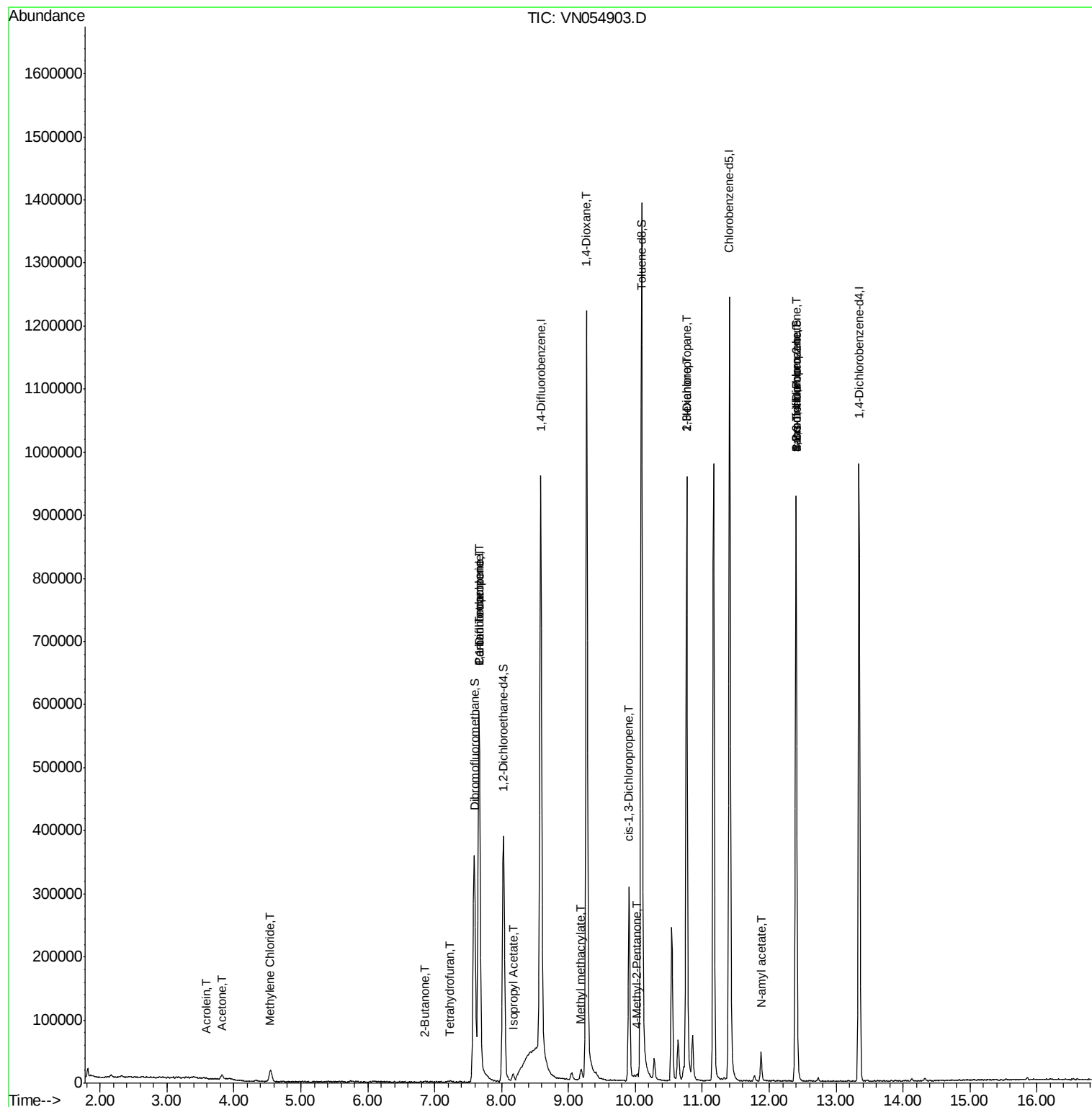
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	163	Below Cal	#	2
13) Acrolein	3.60	56	185	0.573	ug/l #	14
16) Acetone	3.82	43	10777	6.519	ug/l	91
20) Methylene Chloride	4.54	84	12059	2.068	ug/l #	83
25) 2-Butanone	6.85	43	1006	0.412	ug/l #	46
29) Tetrahydrofuran	7.22	42	342	0.201	ug/l #	12
31) Cyclohexane	7.66	56	11292	Below Cal	#	13
36) 1,1-Dichloropropene	7.66	75	39301	4.926	ug/l #	47
38) Carbon Tetrachloride	7.66	117	47824	6.172	ug/l #	17
43) Isopropyl Acetate	8.17	43	13620	1.433	ug/l #	93
48) Methyl methacrylate	9.18	41	6499	1.261	ug/l #	11
49) 1,4-Dioxane	9.27	88	30	0.587	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	7912	1.480	ug/l #	36
54) cis-1,3-Dichloropropene	9.90	75	50948	5.958	ug/l #	73
57) 1,3-Dichloropropane	10.76	76	9163	1.055	ug/l #	43
59) 2-Hexanone	10.76	43	158535	46.338	ug/l #	47
71) Bromoform	12.40	173	3601	1.135	ug/l #	1
74) N-amyl acetate	11.88	43	16596	2.529	ug/l #	49
75) 1,1,2,2-Tetrachloroethane	12.40	83	182	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	167217	37.343	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	167217	145.256	ug/l #	11
83) tert-Butylbenzene	12.72	119	29	Below Cal	#	1

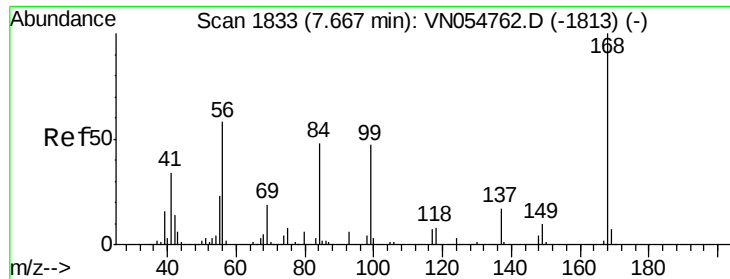
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
Quant Title : SW846 8260
QLast Update : Sat Mar 30 00:48:18 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054903.D

Acq: 2 Apr 2019 15:50

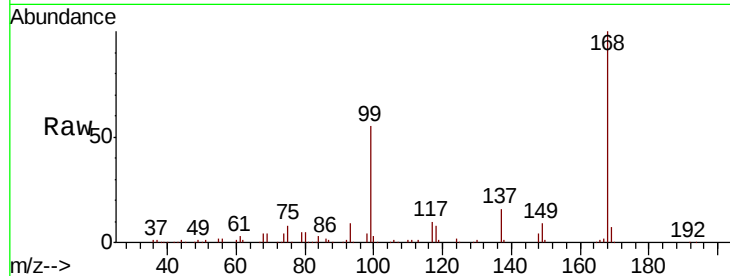
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 514312

Ion Ratio Lower Upper

168 100

99 55.2 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

200000

150000

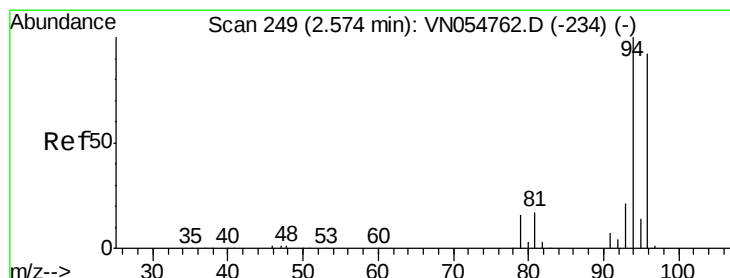
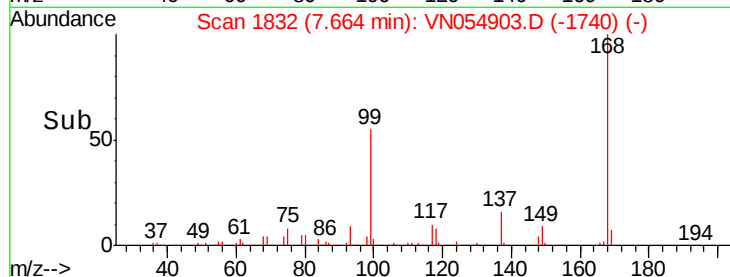
100000

50000

0

7.60 7.70 7.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 249

Delta R.T. -0.00 min

Lab File: VN054903.D

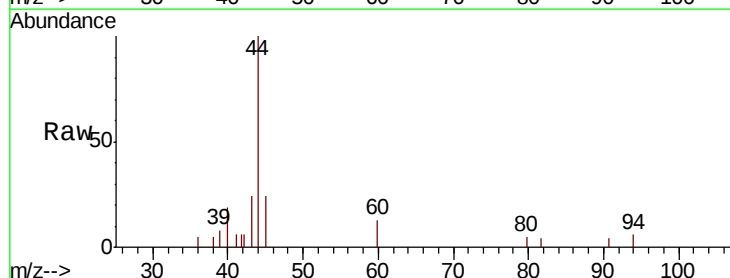
Acq: 2 Apr 2019 15:50

Tgt Ion: 94 Resp: 163

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

250

200

150

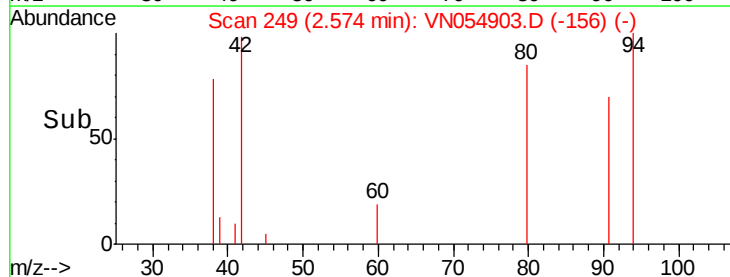
100

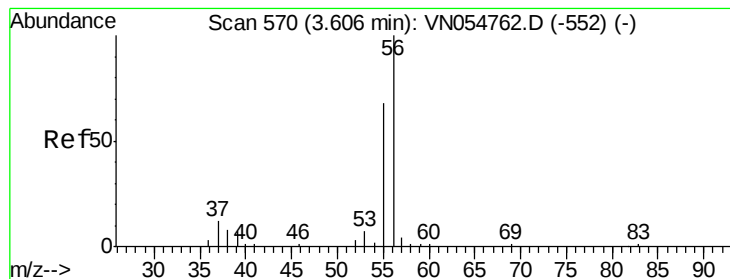
50

0

2.56 2.57 2.58 2.59

Time-->





#13

Acrolein

Concen: 0.573 ug/l

RT: 3.60 min Scan# 567

Delta R.T. -0.01 min

Lab File: VN054903.D

Acq: 2 Apr 2019 15:50

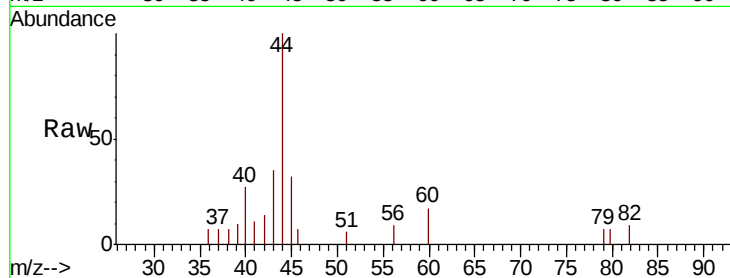
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 185

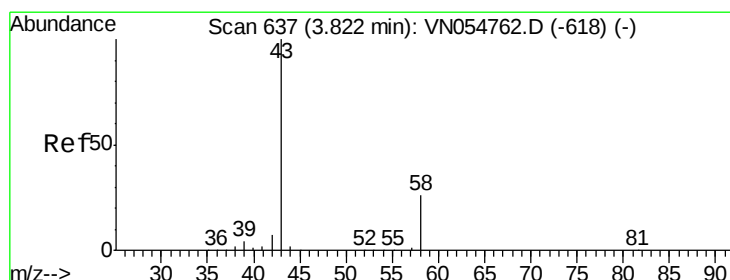
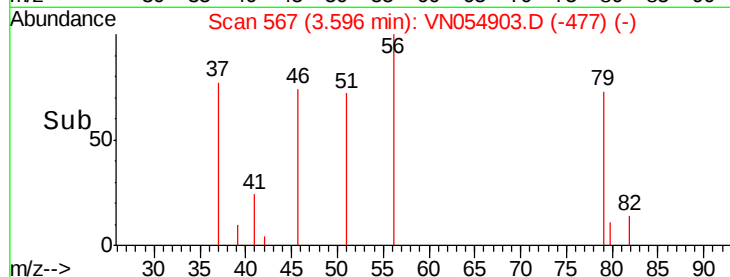
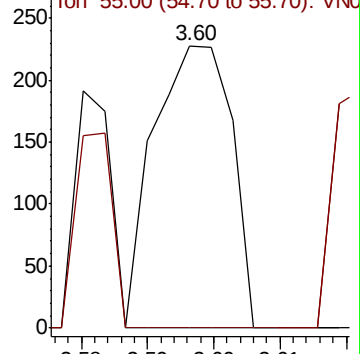
Ion Ratio Lower Upper

56 100

55 0.0 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN054903.D (-477) (-)



#16

Acetone

Concen: 6.519 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN054903.D

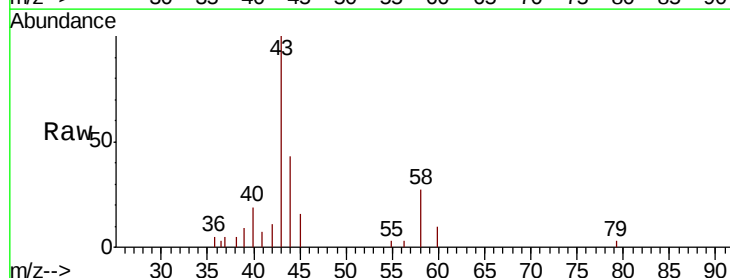
Acq: 2 Apr 2019 15:50

Tgt Ion: 43 Resp: 10777

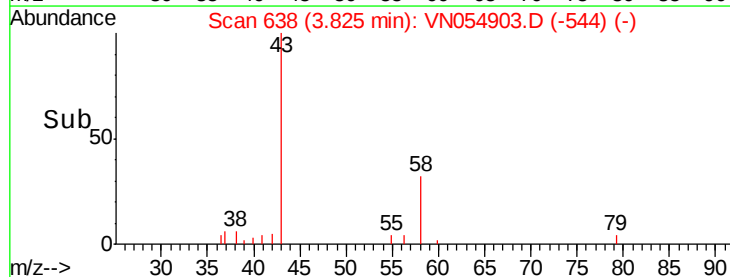
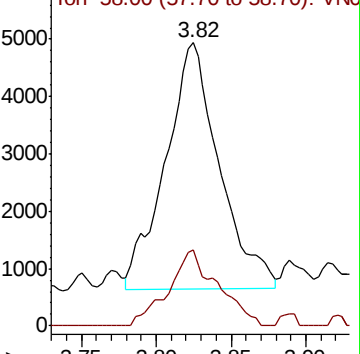
Ion Ratio Lower Upper

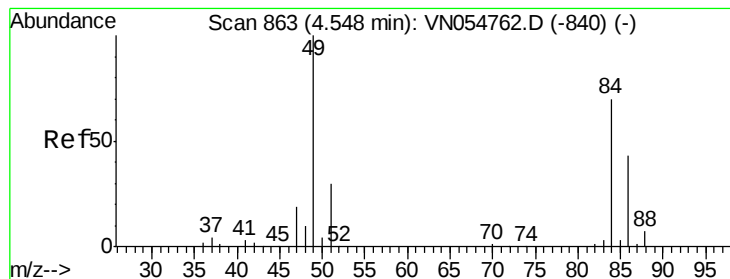
43 100

58 31.9 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VN054903.D (-544) (-)





#20

Methvlene Chloride

Concen: 2.068 ug/l

RT: 4.54 min Scan# 862

Delta R.T. -0.00 min

Lab File: VN054903.D

Acq: 2 Apr 2019 15:50

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 84 Resp: 12059

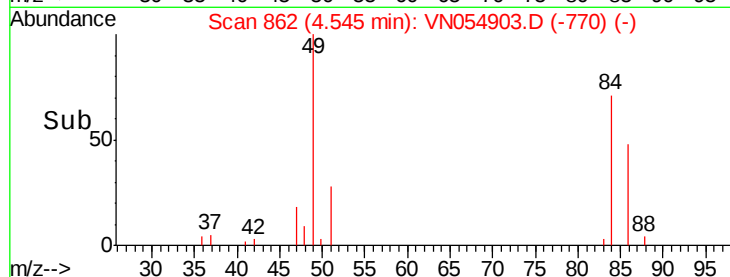
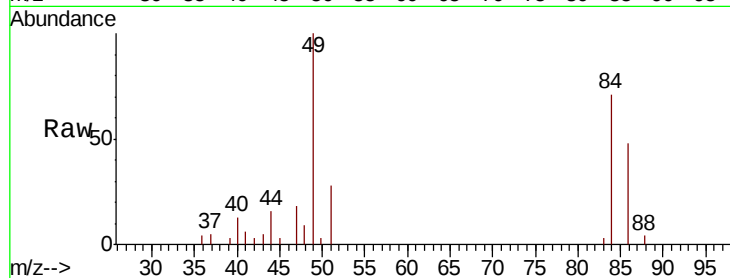
Ion Ratio Lower Upper

84 100

49 141.0 89.7 134.5#

51 39.9 28.2 42.4

86 68.1 50.8 76.2

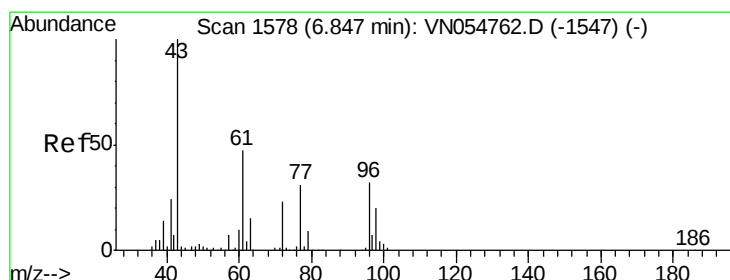
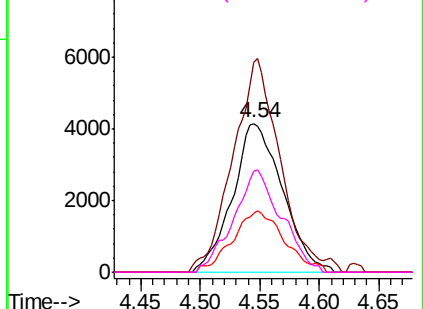


Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#25

2-Butanone

Concen: 0.412 ug/l

RT: 6.85 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VN054903.D

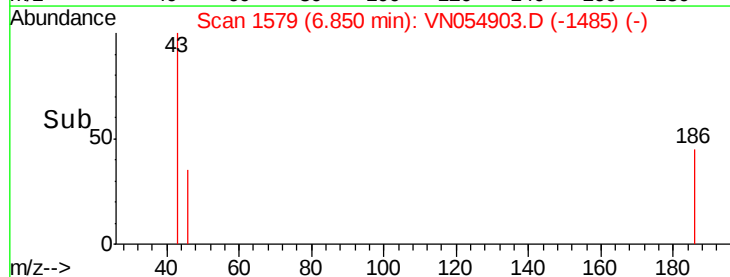
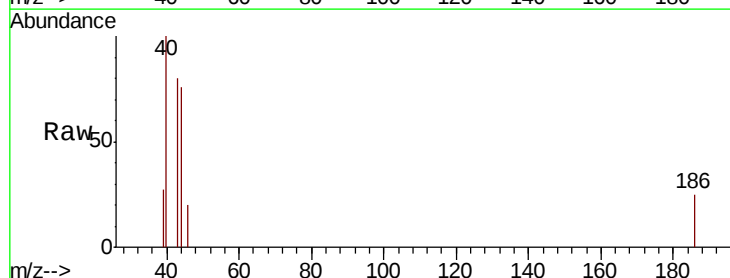
Acq: 2 Apr 2019 15:50

Tgt Ion: 43 Resp: 1006

Ion Ratio Lower Upper

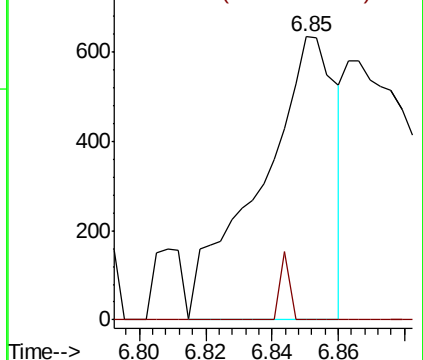
43 100

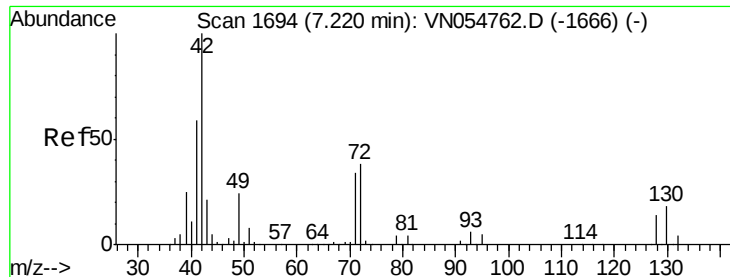
72 0.0 23.0 34.6#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO

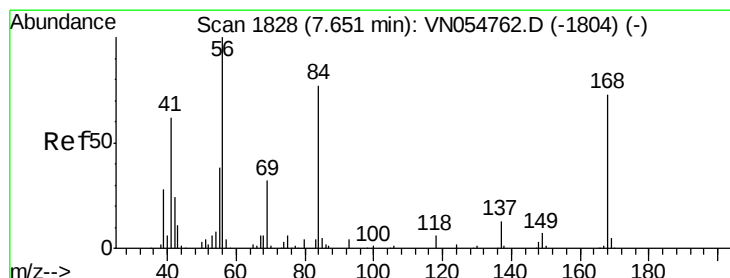
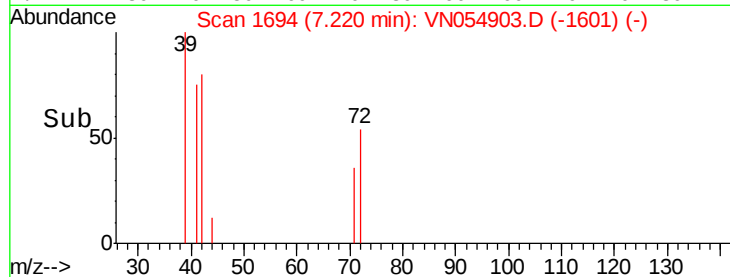
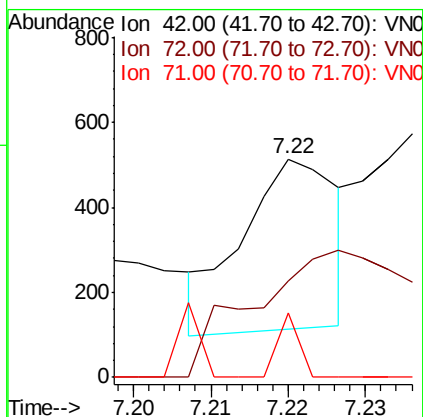
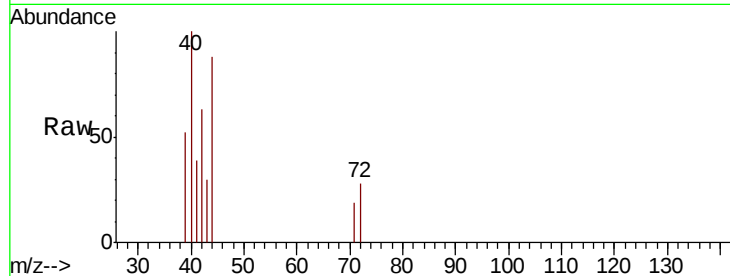




#29
Tetrahydrofuran
Concen: 0.201 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. -0.00 min
Lab File: VN054903.D
Acq: 2 Apr 2019 15:50

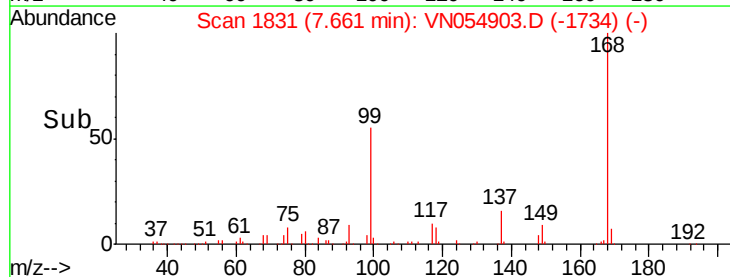
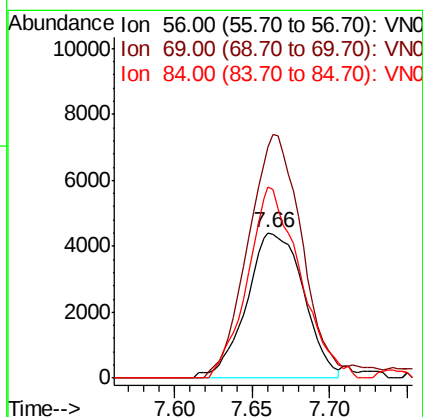
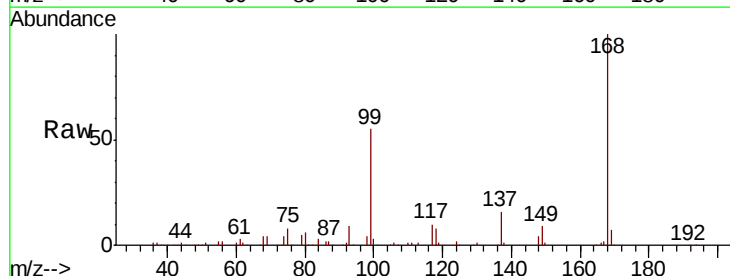
Instrument :
MSVOA_N
ClientSampleId :

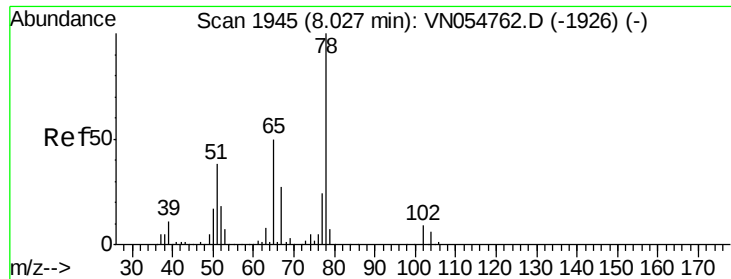
Tot Ion: 42 Resp: 342
Ion Ratio Lower Upper
42 100
72 126.6 37.8 56.6#
71 8.5 36.2 54.2#



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN054903.D
Acq: 2 Apr 2019 15:50

Tgt Ion: 56 Resp: 11292
Ion Ratio Lower Upper
56 100
69 158.7 27.8 41.6#
84 130.8 74.6 111.8#

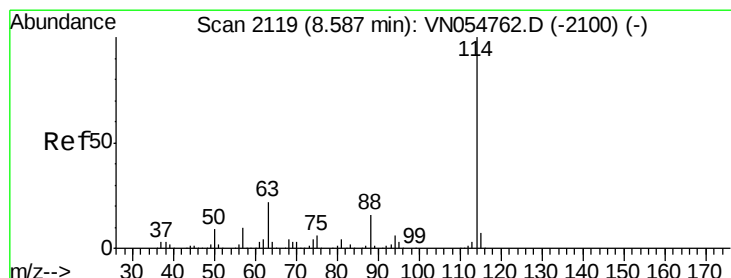
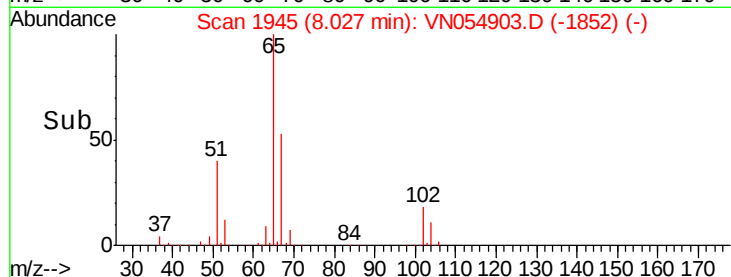
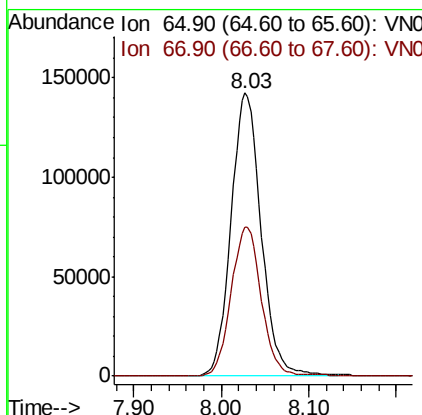
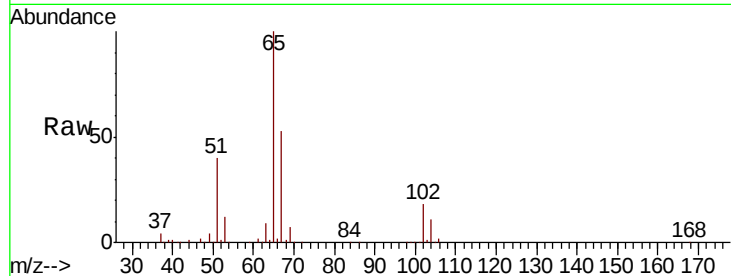




#33
 1,2-Dichloroethane-d4
 Concen: 49.093 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054903.D
 Acq: 2 Apr 2019 15:50

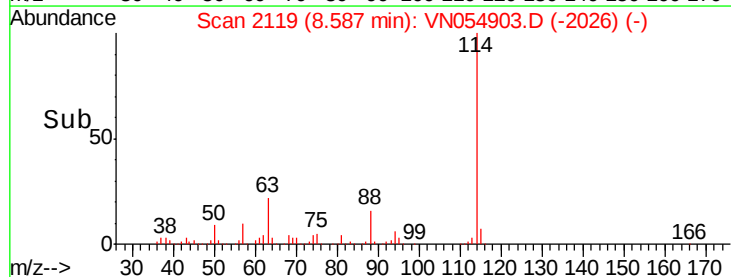
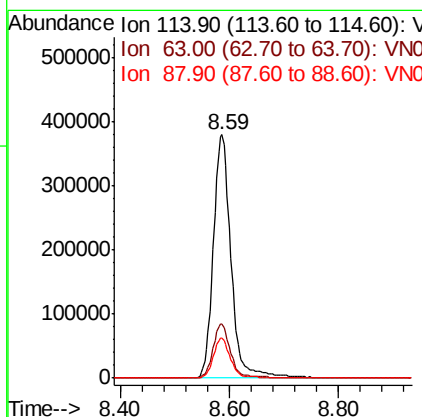
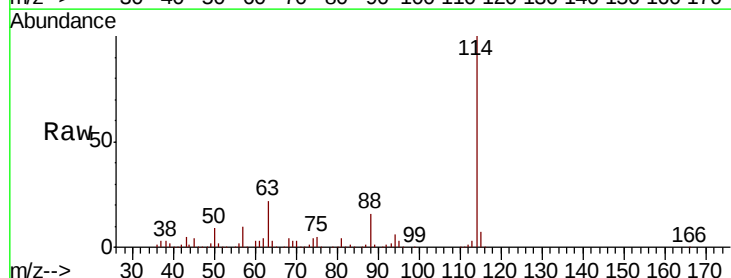
Instrument :
 MSVOA_N
 ClientSampleId :

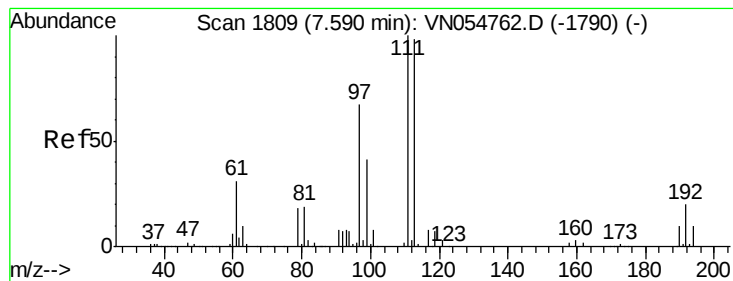
Tot Ion: 65 Resp: 340362
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054903.D
 Acq: 2 Apr 2019 15:50

Tgt Ion: 114 Resp: 856151
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 35.2
 88 16.3 0.0 30.2





#35

Dibromofluoromethane

Concen: 47.644 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054903.D

Acq: 2 Apr 2019 15:50

Instrument :

MSVOA_N

ClientSampled :

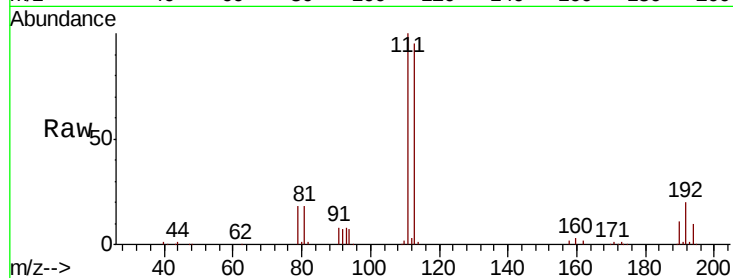
Tot Ion:113 Resp: 271945

Ion Ratio Lower Upper

113 100

111 102.8 82.2 123.4

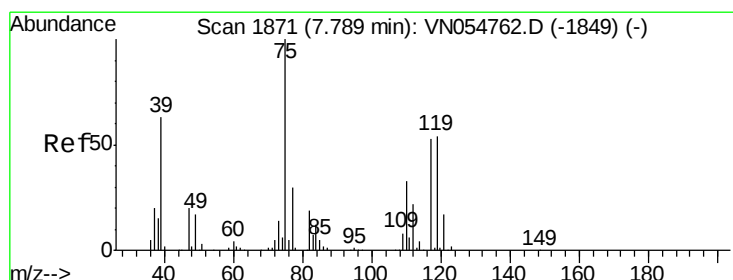
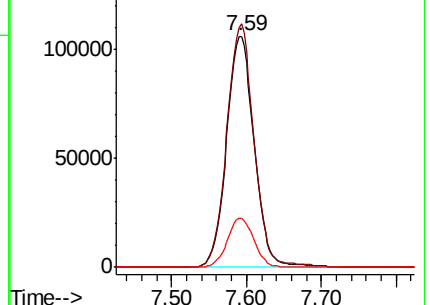
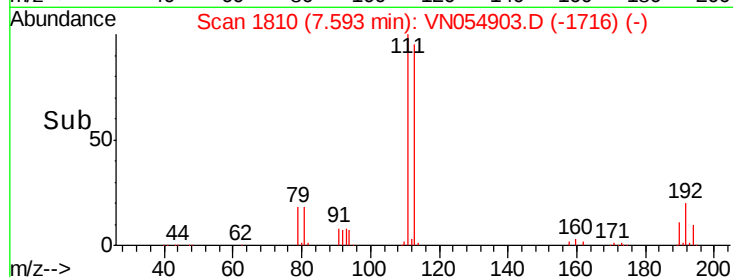
192 20.4 19.2 28.8



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: 4.926 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054903.D

Acq: 2 Apr 2019 15:50

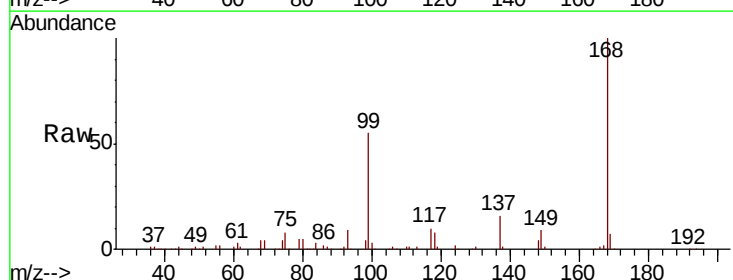
Tgt Ion: 75 Resp: 39301

Ion Ratio Lower Upper

75 100

110 8.0 19.1 57.5#

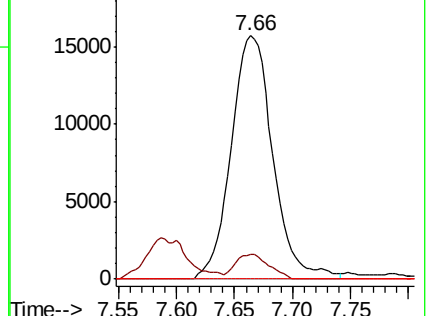
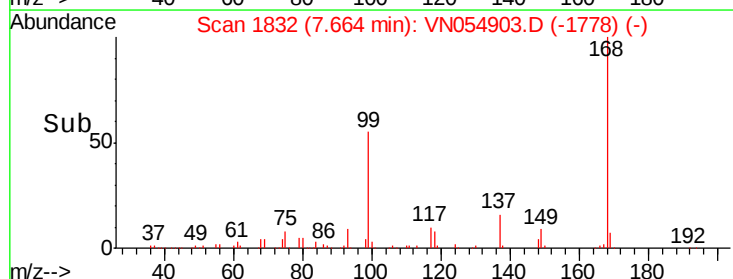
77 0.0 25.0 37.4#

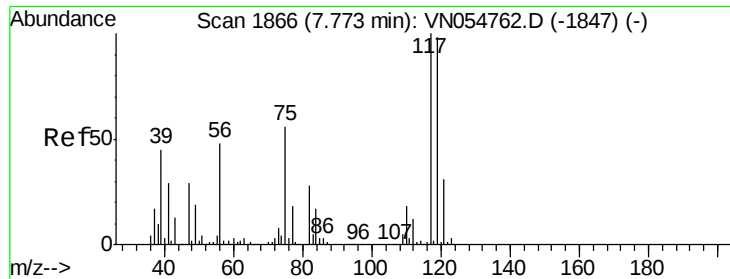


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.172 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054903.D

Acq: 2 Apr 2019 15:50

Instrument :

MSVOA_N

ClientSampleId :

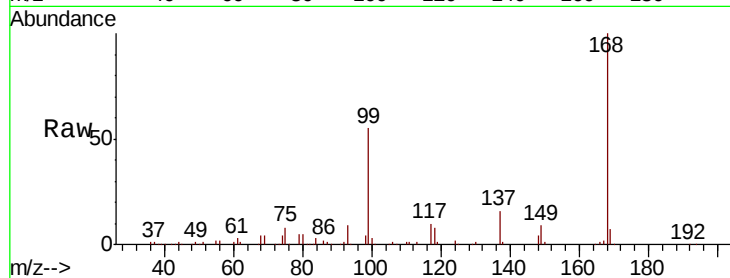
Tot Ion:117 Resp: 47824

Ion Ratio Lower Upper

117 100

119 6.0 76.3 114.5#

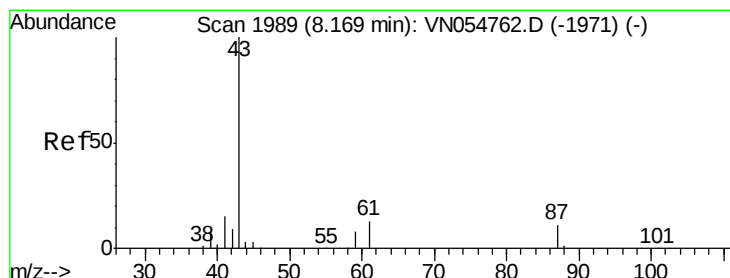
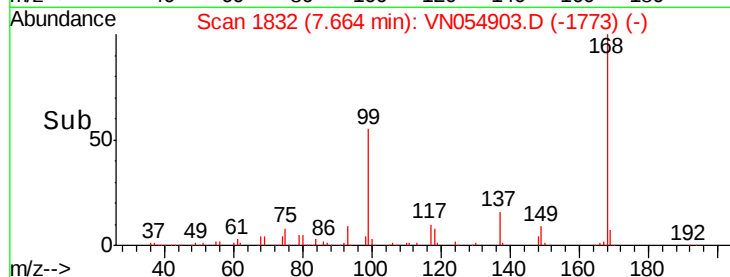
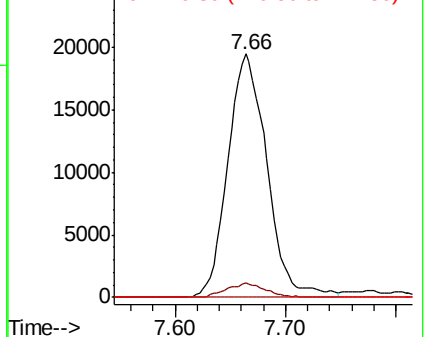
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 1.433 ug/l

RT: 8.17 min Scan# 1991

Delta R.T. 0.01 min

Lab File: VN054903.D

Acq: 2 Apr 2019 15:50

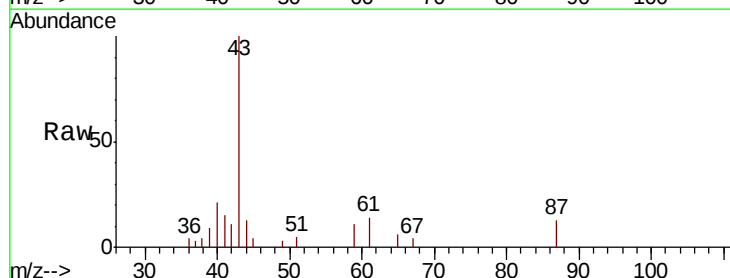
Tgt Ion: 43 Resp: 13620

Ion Ratio Lower Upper

43 100

61 18.8 15.8 23.8

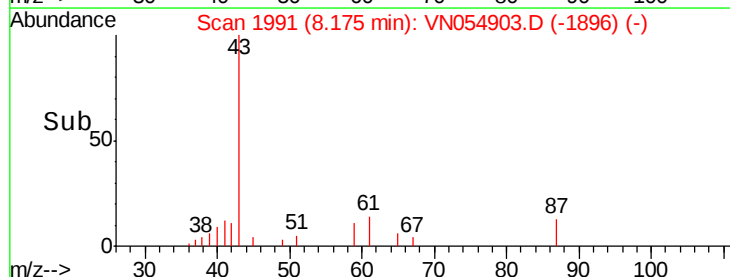
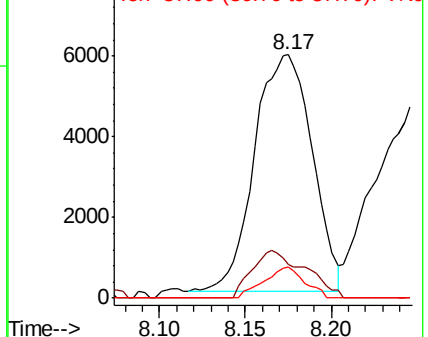
87 9.2 12.0 18.0#

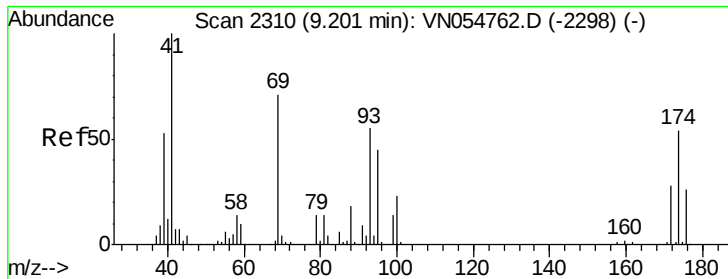


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

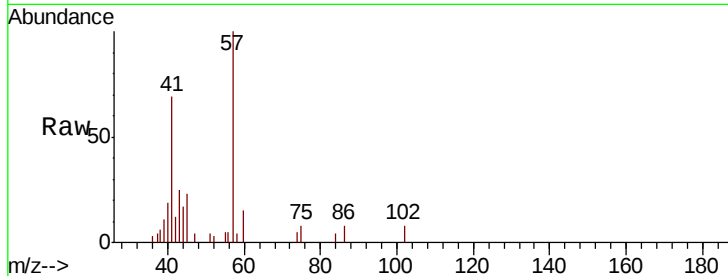




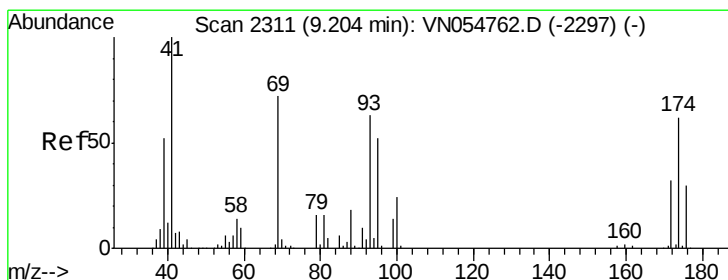
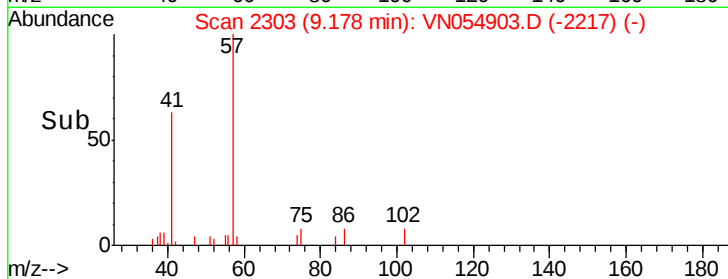
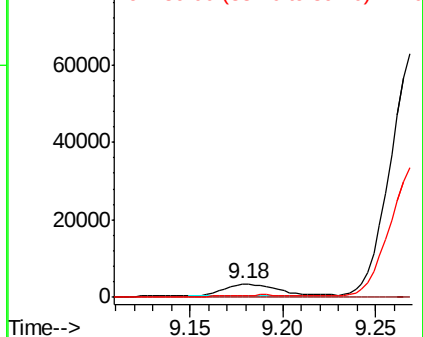
#48
Methyl methacrylate
Concen: 1.261 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN054903.D
Acq: 2 Apr 2019 15:50

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 6499
Ion Ratio Lower Upper
41 100
69 0.0 72.6 108.8#
39 0.0 47.5 71.3#

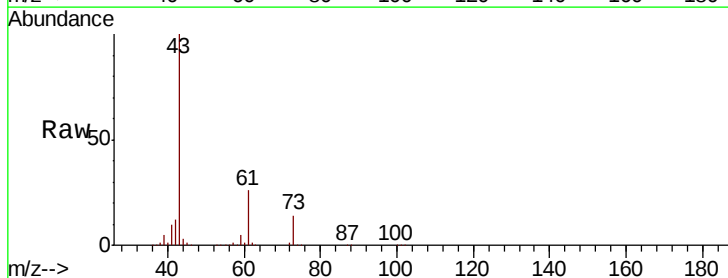


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

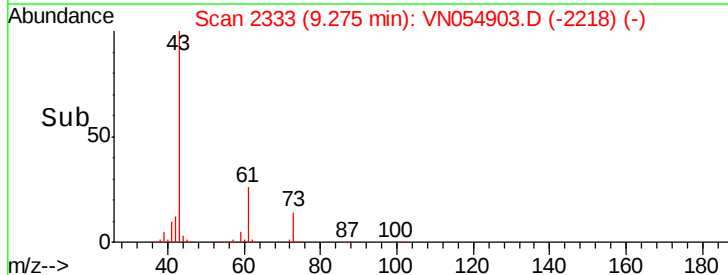
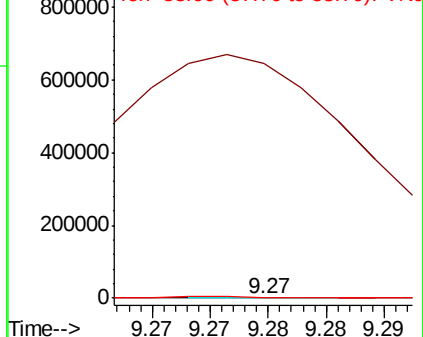


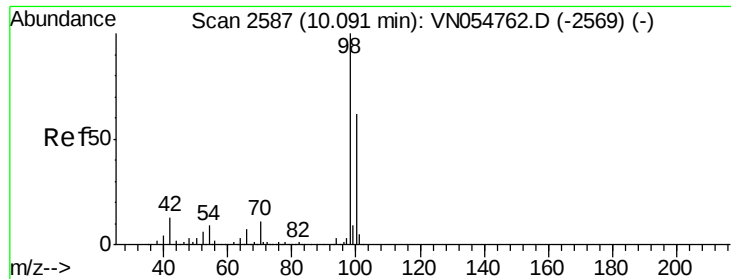
#49
1,4-Dioxane
Concen: 0.587 ug/l
RT: 9.27 min Scan# 2333
Delta R.T. 0.07 min
Lab File: VN054903.D
Acq: 2 Apr 2019 15:50

Tgt Ion: 88 Resp: 30
Ion Ratio Lower Upper
88 100
43 4398440.0 24.1 36.1#
58 20183.3 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: 48.747 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054903.D

Acq: 2 Apr 2019 15:50

Instrument :

MSVOA_N

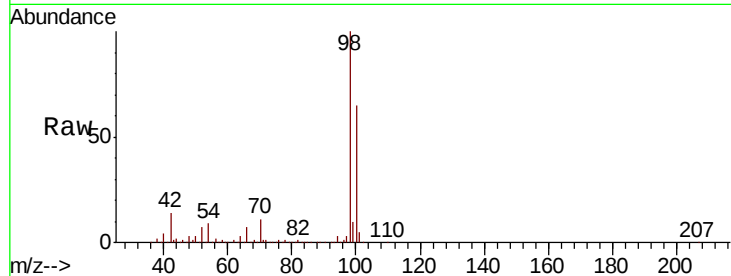
ClientSampled :

Tot Ion: 98 Resp: 1034435

Ion Ratio Lower Upper

98 100

100 63.7 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054762.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN054762.D (-2569) (-)

10.09

600000

500000

400000

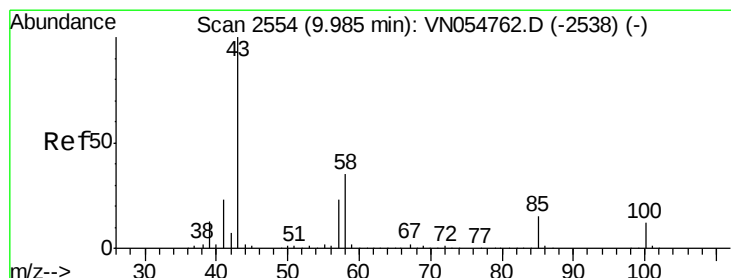
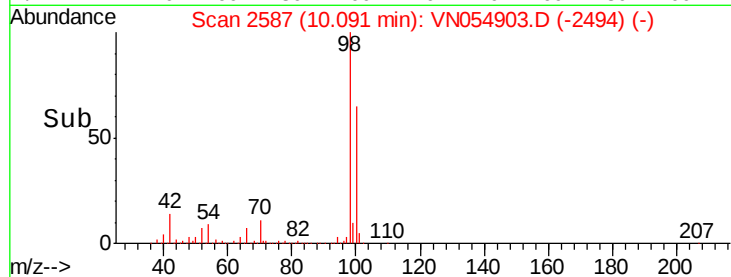
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.480 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN054903.D

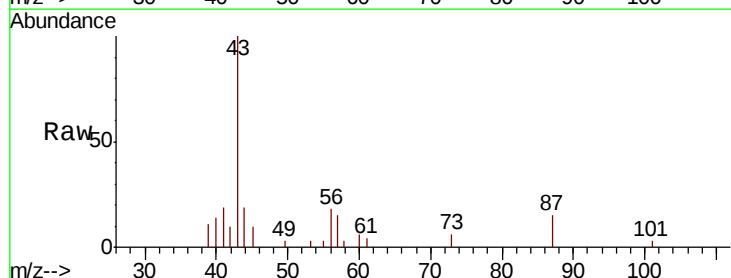
Acq: 2 Apr 2019 15:50

Tgt Ion: 43 Resp: 7912

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VN054762.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN054762.D (-2538) (-)

10.02

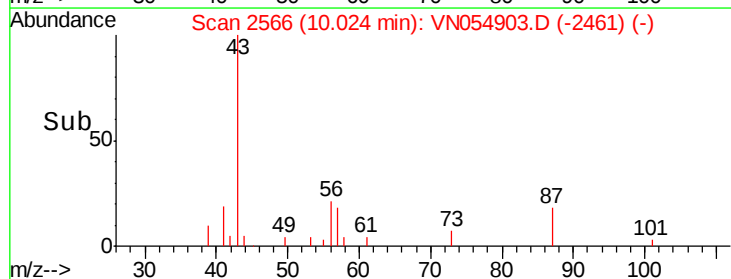
6000

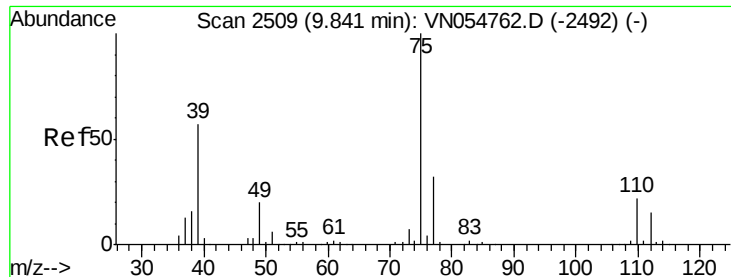
4000

2000

0

Time-->



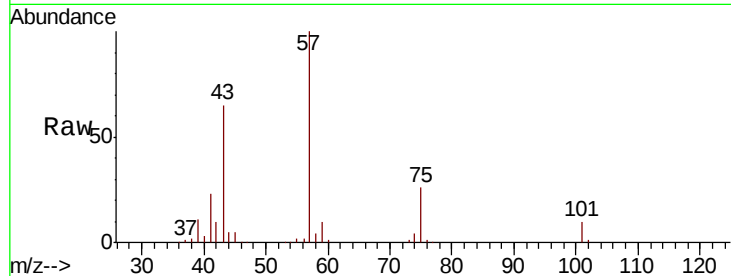


#54

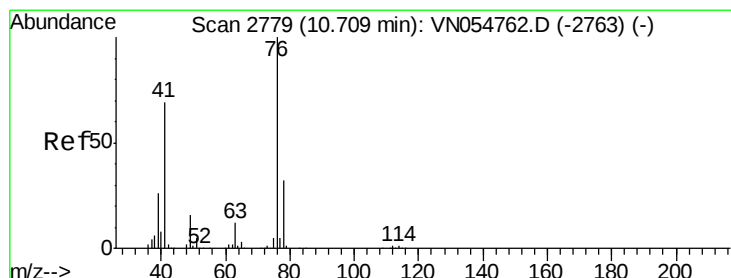
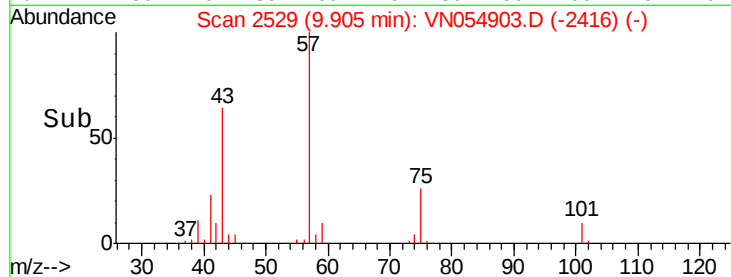
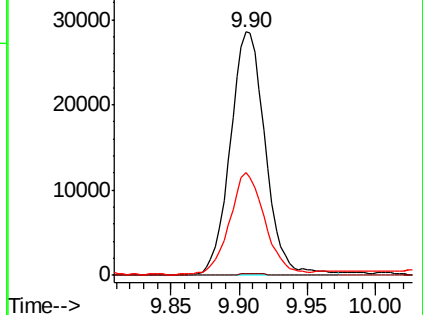
cis-1,3-Dichloropropene
 Concen: 5.958 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN054903.D
 Acq: 2 Apr 2019 15:50

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 50948
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.4 38.0#
 39 41.5 37.2 55.8



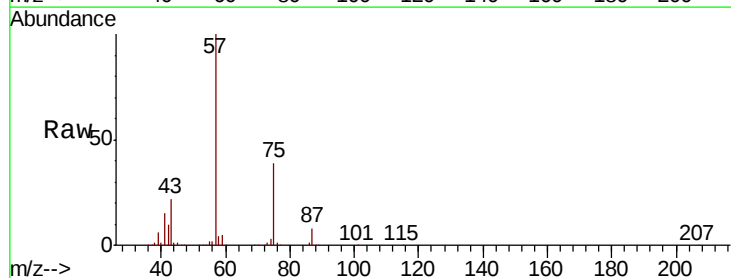
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



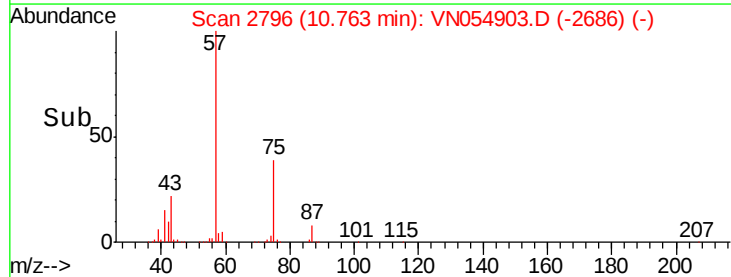
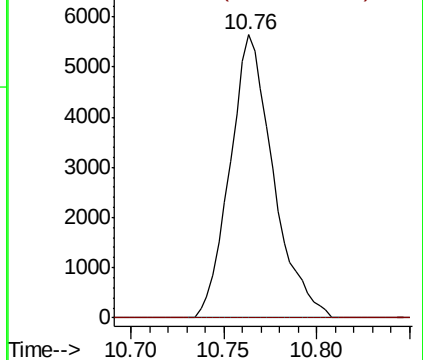
#57

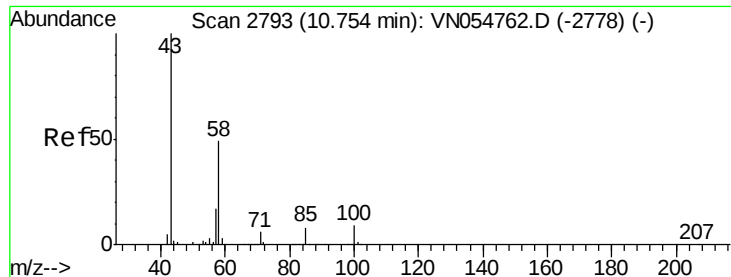
1,3-Dichloropropane
 Concen: 1.055 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.05 min
 Lab File: VN054903.D
 Acq: 2 Apr 2019 15:50

Tgt Ion: 76 Resp: 9163
 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

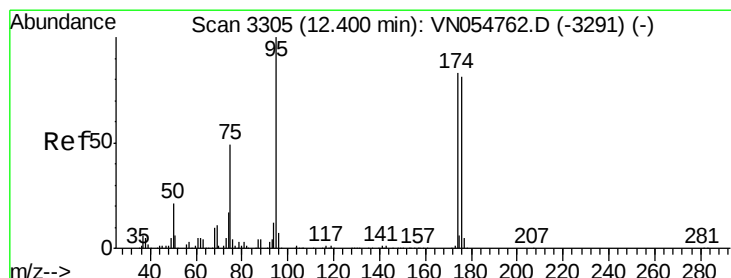
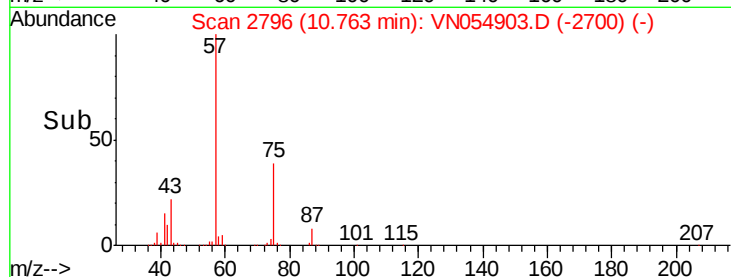
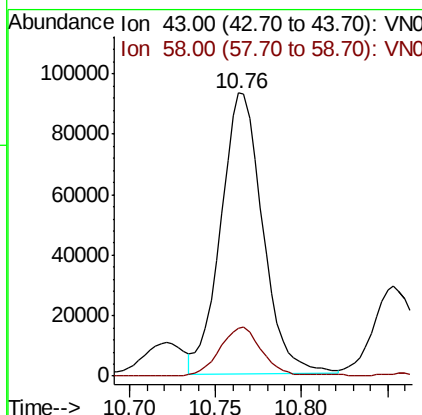
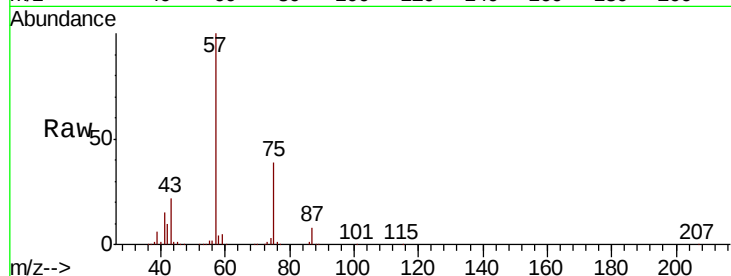




#59
2-Hexanone
Concen: 46.338 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN054903.D
Acq: 2 Apr 2019 15:50

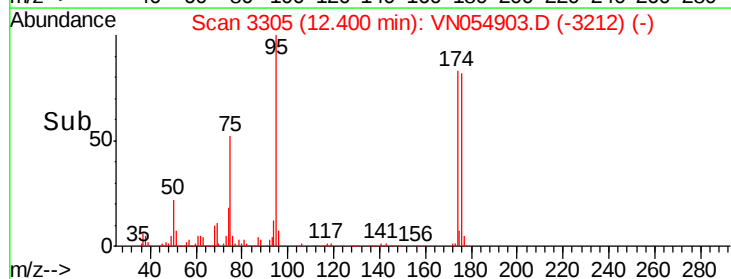
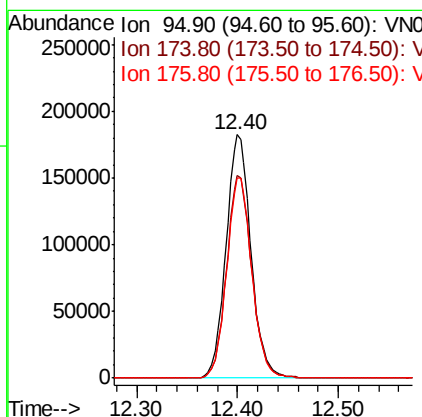
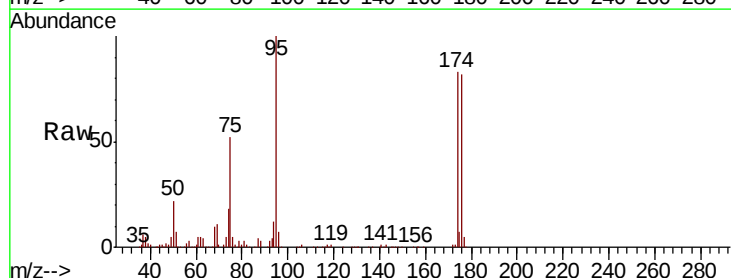
Instrument :
MSVOA_N
ClientSampled :

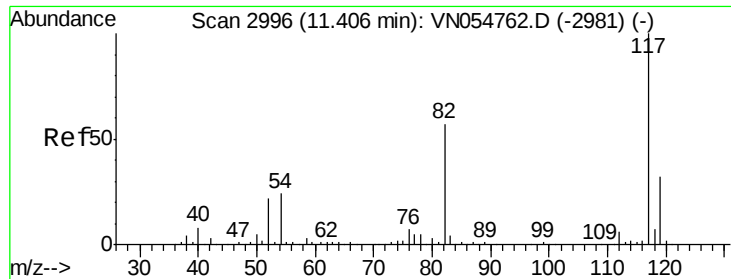
Tot Ion: 43 Resp: 158535
Ion Ratio Lower Upper
43 100
58 17.3 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 44.600 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN054903.D
Acq: 2 Apr 2019 15:50

Tgt Ion: 95 Resp: 314762
Ion Ratio Lower Upper
95 100
174 84.2 0.0 191.0
176 83.2 0.0 187.4

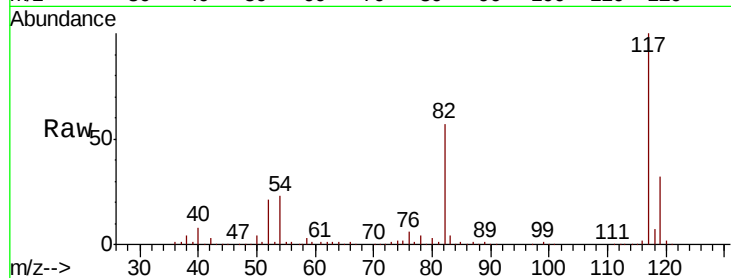




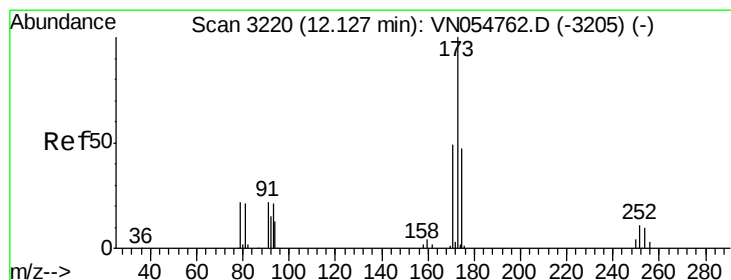
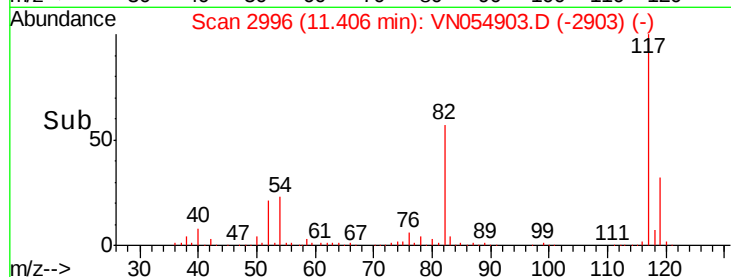
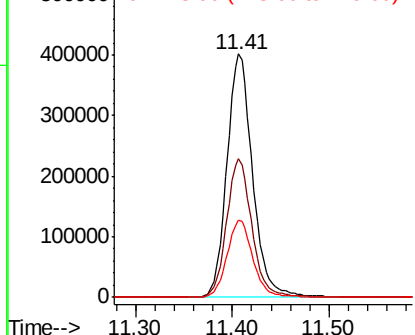
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054903.D
Acq: 2 Apr 2019 15:50

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 739007
Ion Ratio Lower Upper
117 100
82 56.8 40.0 60.0
119 31.7 25.8 38.6

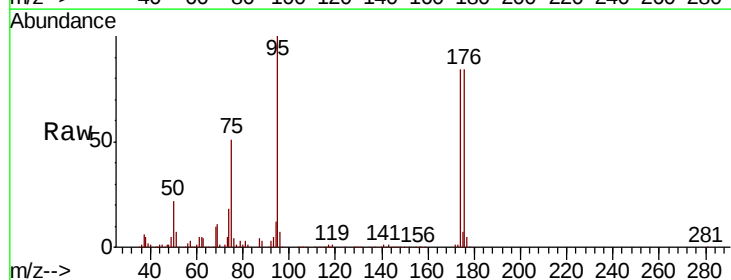


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

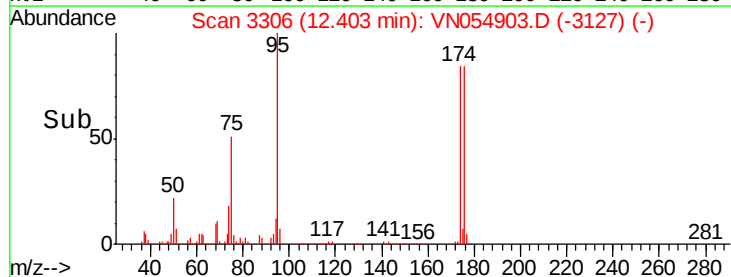
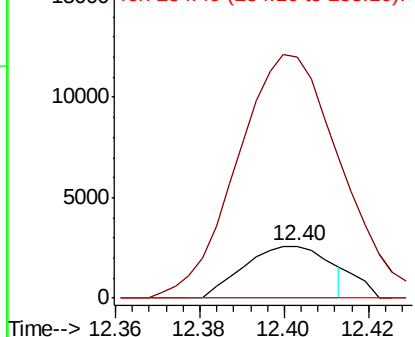


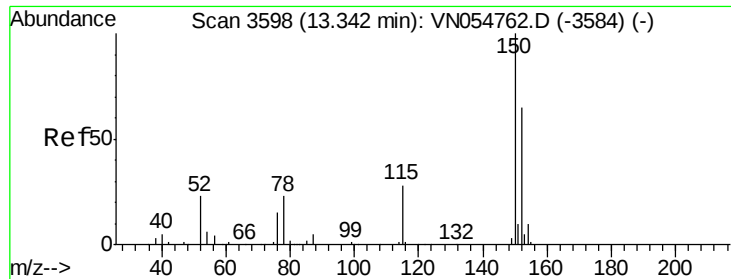
#71
Bromoform
Concen: 1.135 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN054903.D
Acq: 2 Apr 2019 15:50

Tgt Ion:173 Resp: 3601
Ion Ratio Lower Upper
173 100
175 501.1 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



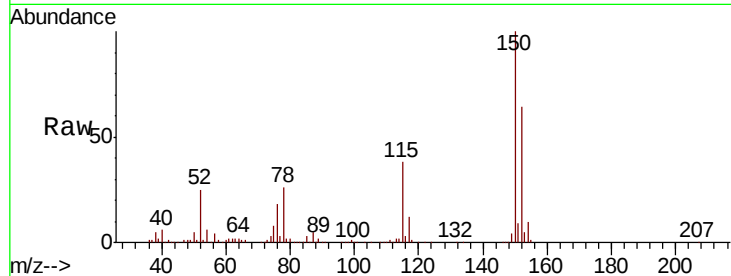


#72

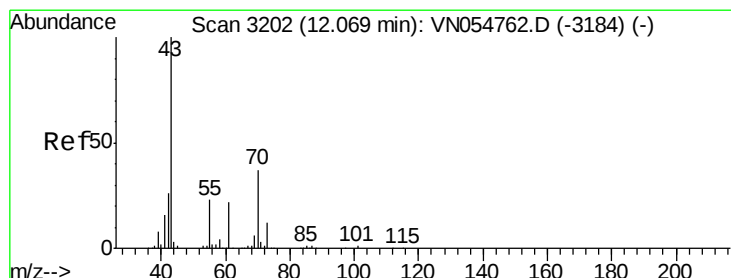
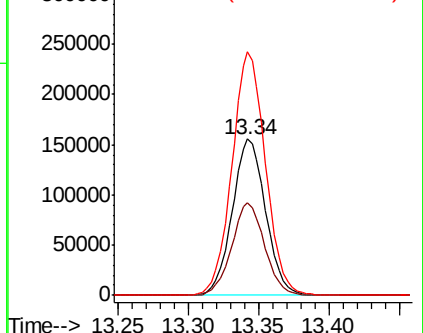
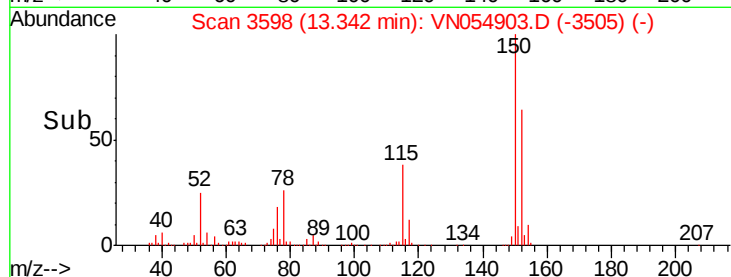
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054903.D
Acq: 2 Apr 2019 15:50

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:152 Resp: 257757
Ion Ratio Lower Upper
152 100
115 58.3 27.2 81.6
150 155.5 0.0 349.2



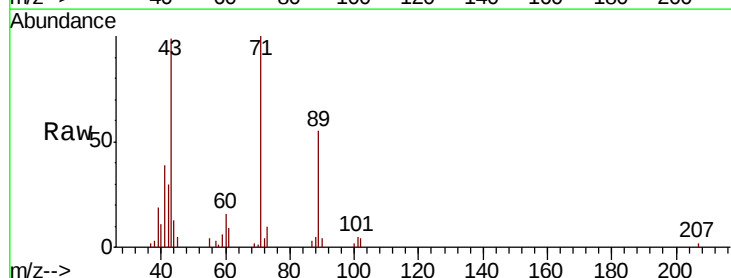
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



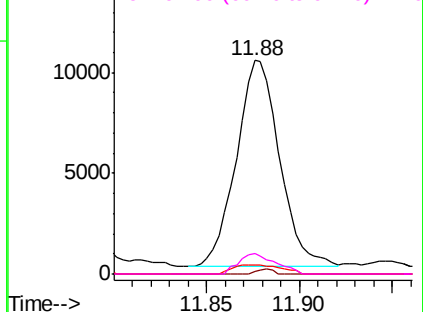
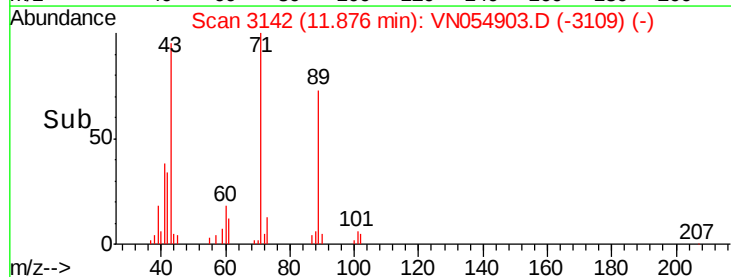
#74

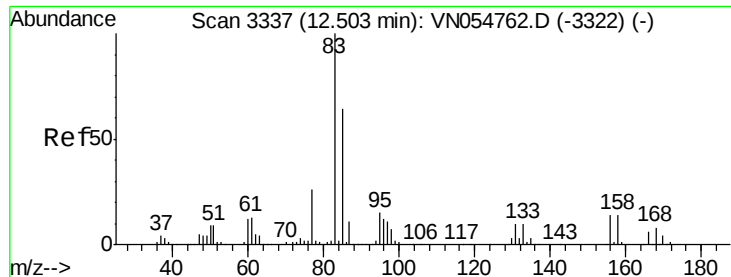
N-ethyl acetate
Concen: 2.529 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN054903.D
Acq: 2 Apr 2019 15:50

Tgt Ion: 43 Resp: 16596
Ion Ratio Lower Upper
43 100
70 0.9 35.4 53.0#
55 5.1 19.8 29.6#
61 8.3 19.8 29.6#



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





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. -0.10 min

Lab File: VN054903.D

Acq: 2 Apr 2019 15:50

Instrument :

MSVOA_N

ClientSampled :

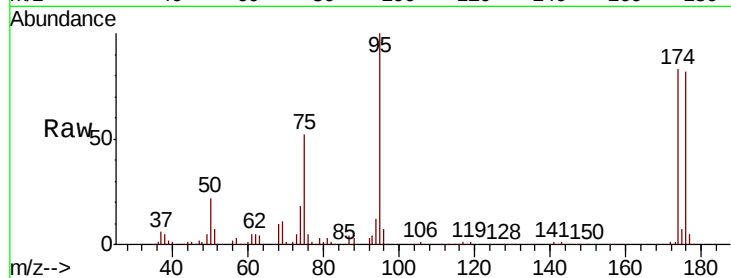
Tot Ion: 83 Resp: 182

Ion Ratio Lower Upper

83 100

131 179.7 5.8 17.4#

85 0.0 32.2 96.6#

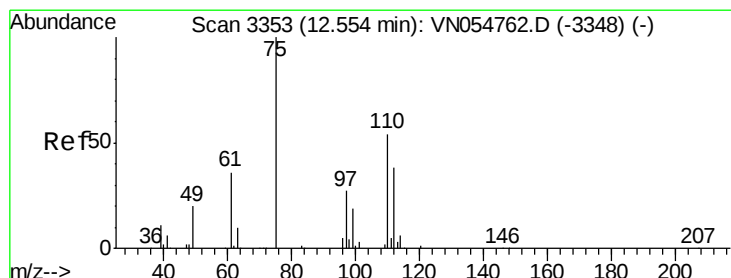
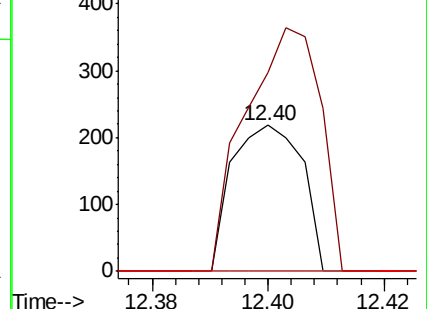
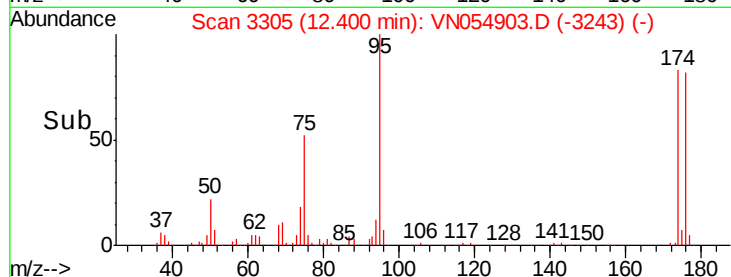


Abundance Ion 82.90 (82.60 to 83.60): VN054762.D (-3322) (-)

Ion 130.80 (130.50 to 131.50): VN054762.D (-3322) (-)

Ion 84.90 (84.60 to 85.60): VN054762.D (-3322) (-)

Time-->



#76

1,2,3-Trichloropropane

Concen: 37.343 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054903.D

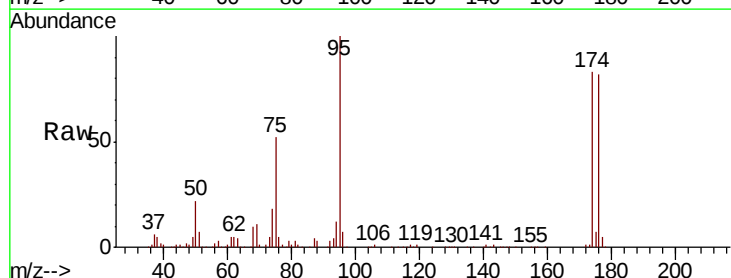
Acq: 2 Apr 2019 15:50

Tgt Ion: 75 Resp: 167217

Ion Ratio Lower Upper

75 100

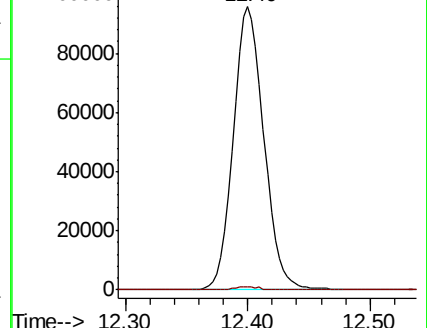
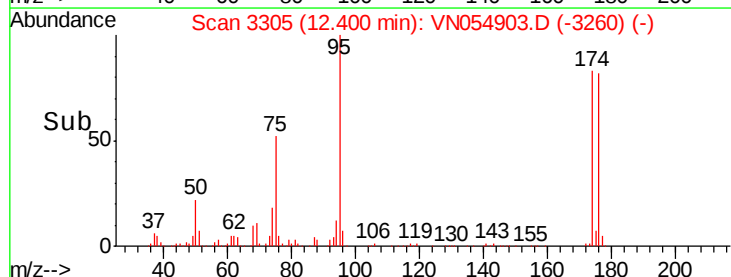
77 0.9 0.0 0.0#

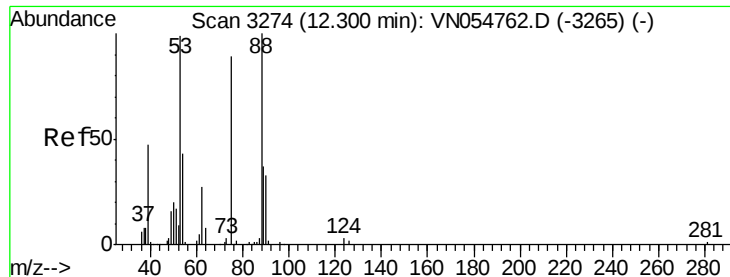


Abundance Ion 74.90 (74.60 to 75.60): VN054762.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN054762.D (-3348) (-)

Time-->

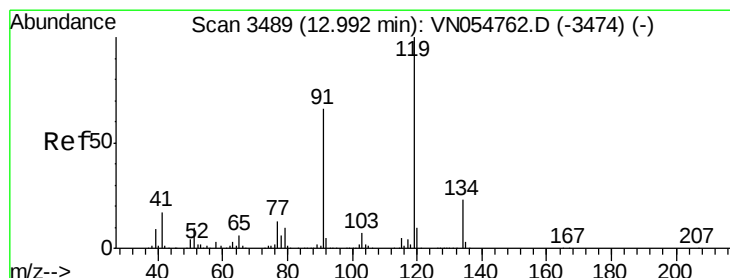
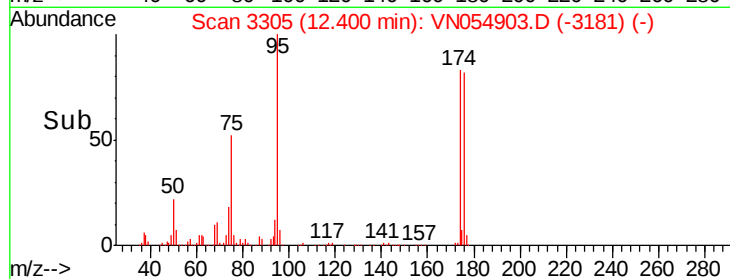
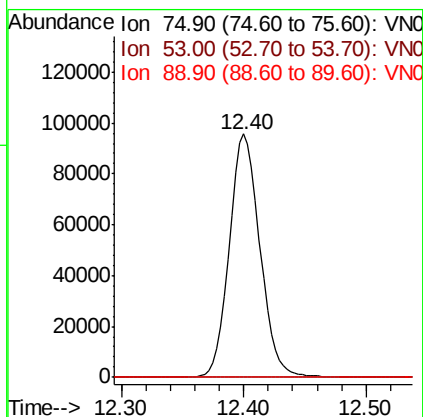
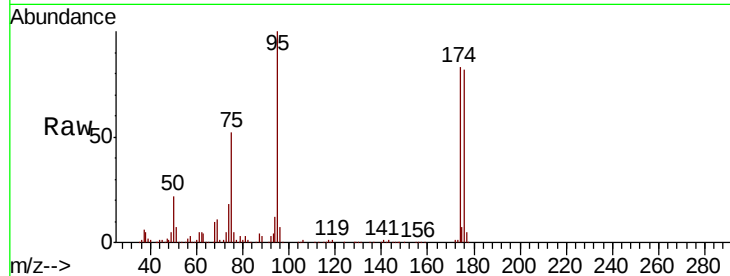




#81
trans-1,4-Dichloro-2-butene
Concen: 145.256 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN054903.D
Acq: 2 Apr 2019 15:50

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 75 Resp: 167217
Ion Ratio Lower Upper
75 100
53 0.1 76.2 114.2#
89 0.0 39.2 58.8#



#83
tert-Butylbenzene
Concen: Below Cal
RT: 12.72 min Scan# 3406
Delta R.T. -0.27 min
Lab File: VN054903.D
Acq: 2 Apr 2019 15:50

Tgt Ion: 119 Resp: 29
Ion Ratio Lower Upper
119 100
91 217.2 30.9 92.8#
134 0.0 13.2 39.6#

