

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032819\
 Data File : VN054754.D
 Acq On : 28 Mar 2019 19:29
 Operator : JC/SP
 Sample : K2111-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S7A(20)

Quant Time: Mar 29 05:06:24 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	545193	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	896589	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	755154	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	268866	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	355481	52.42	ug/l	0.00
Spiked Amount			Recovery	=	104.84%	
35) Dibromofluoromethane	7.59	113	280226	48.51	ug/l	0.00
Spiked Amount			Recovery	=	97.02%	
50) Toluene-d8	10.09	98	1073042	49.41	ug/l	0.00
Spiked Amount			Recovery	=	98.82%	
62) 4-Bromofluorobenzene	12.40	95	329429	44.58	ug/l	0.00
Spiked Amount			Recovery	=	89.16%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.42	74	748	0.225	ug/l #	37
13) Acrolein	3.61	56	404	0.713	ug/l #	73
16) Acetone	3.83	43	9299	4.561	ug/l #	87
18) Methyl Acetate	4.34	43	5019	1.104	ug/l #	73
20) Methylene Chloride	4.55	84	15017	2.499	ug/l #	84
25) 2-Butanone	6.86	43	788	0.302	ug/l #	46
29) Tetrahydrofuran	7.22	42	1634	0.964	ug/l #	49
31) Cyclohexane	7.67	56	11798	Below Cal	#	22
36) 1,1-Dichloropropene	7.67	75	41675	4.971	ug/l #	48
38) Carbon Tetrachloride	7.67	117	50673	6.220	ug/l #	15
43) Isopropyl Acetate	8.17	43	14964	1.486	ug/l	96
45) 1,2-Dichloropropane	9.26	63	1472	0.229	ug/l #	43
48) Methyl methacrylate	9.18	41	6646	1.216	ug/l #	11
49) 1,4-Dioxane	9.26	88	30	0.491	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	9226	1.653	ug/l #	36
54) cis-1,3-Dichloropropene	9.91	75	51617	5.649	ug/l #	72
57) 1,3-Dichloropropane	10.76	76	10923	1.186	ug/l #	43
59) 2-Hexanone	10.77	43	167741	46.017	ug/l #	47
71) Bromoform	12.40	173	1843	2.684	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	169261	39.672	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	169261	131.260	ug/l #	11
95) Naphthalene	15.14	128	2083	0.217	ug/l	97

(#) = 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: VN054754.D

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MSVOA_N

ClientSampled :

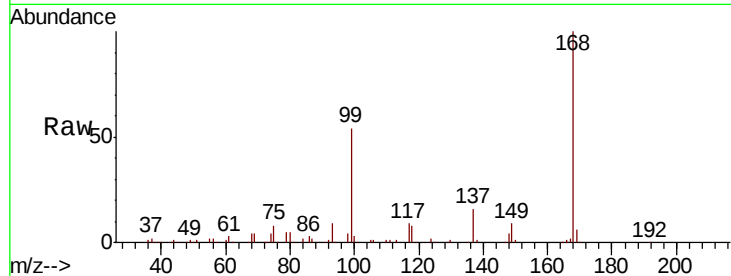
S7A(20)

Tot Ion:168 Resp: 545193

Ion Ratio Lower Upper

168 100

99 54.3 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

200000

150000

100000

50000

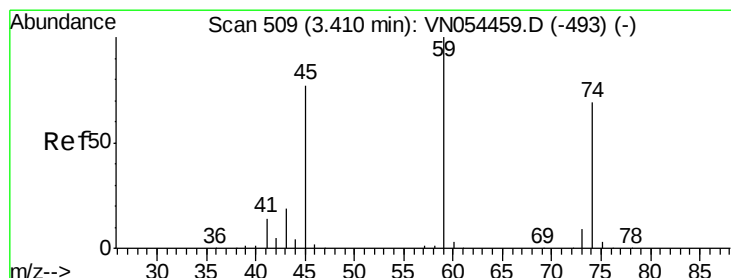
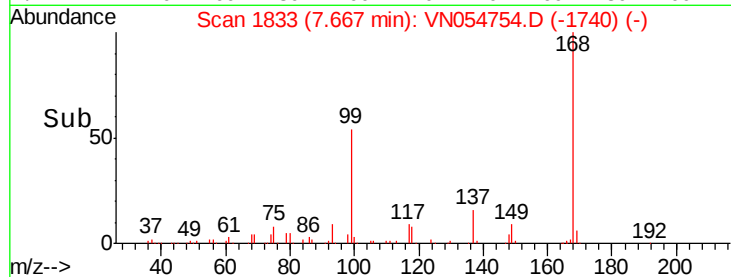
0

7.60

7.70

7.80

Time-->



#8

Diethyl Ether

Concen: 0.225 ug/l

RT: 3.42 min Scan# 511

Delta R.T. 0.01 min

Lab File: VN054754.D

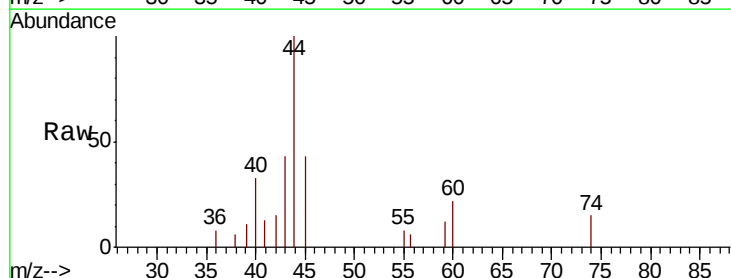
Acq: 28 Mar 2019 19:29

Tgt Ion: 74 Resp: 748

Ion Ratio Lower Upper

74 100

45 28.2 43.1 129.4#



Abundance Ion 74.00 (73.70 to 74.70): VN

Ion 45.00 (44.70 to 45.70): VN

1500

1000

500

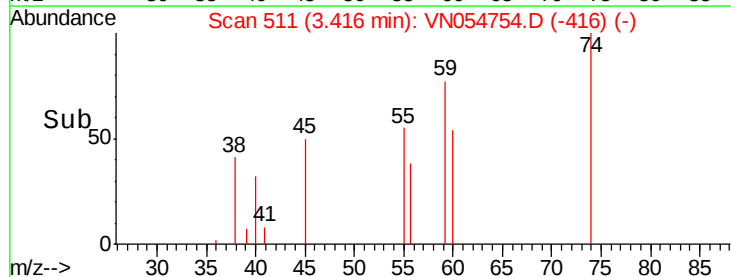
0

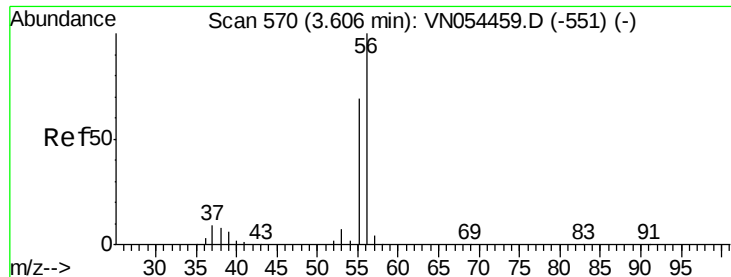
3.40

3.42

3.45

Time-->





#13

Acrolein

Concen: 0.713 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN054754.D

Acq: 28 Mar 2019 19:29

Instrument :

MSVOA_N

ClientSampleId :

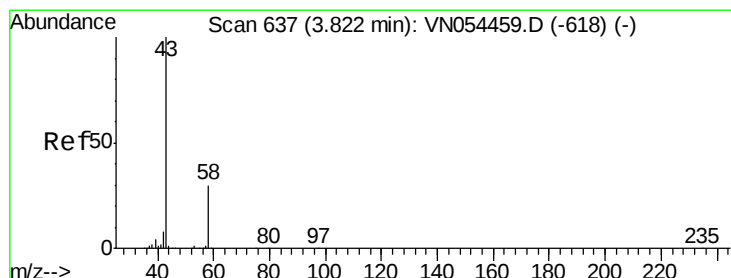
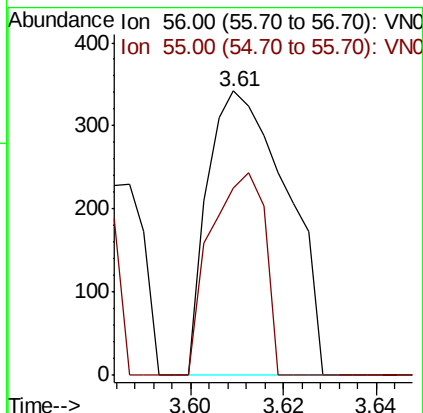
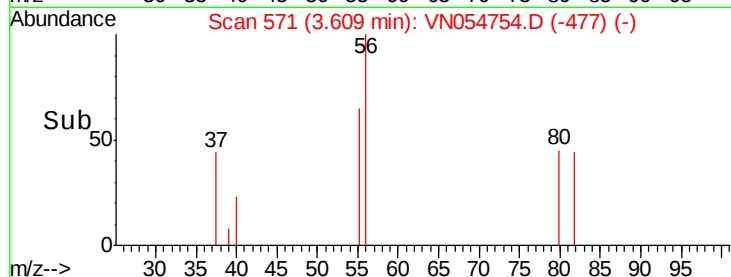
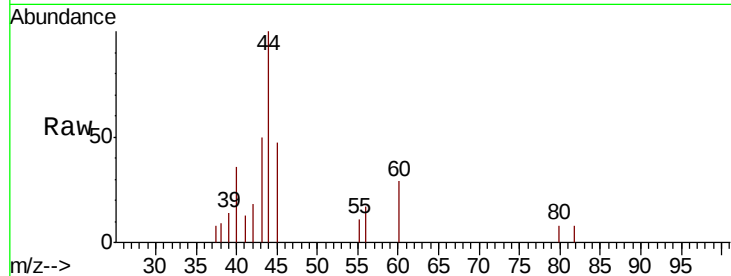
S7A(20)

Tot Ion: 56 Resp: 404

Ion Ratio Lower Upper

56 100

55 48.8 56.7 85.1#



#16

Acetone

Concen: 4.561 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN054754.D

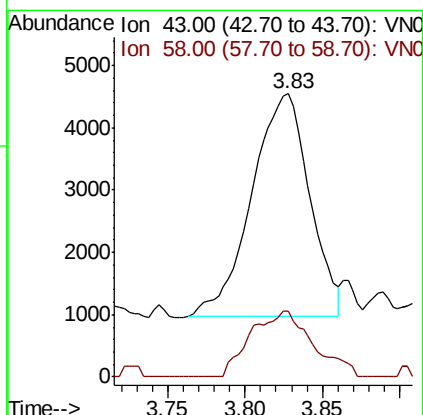
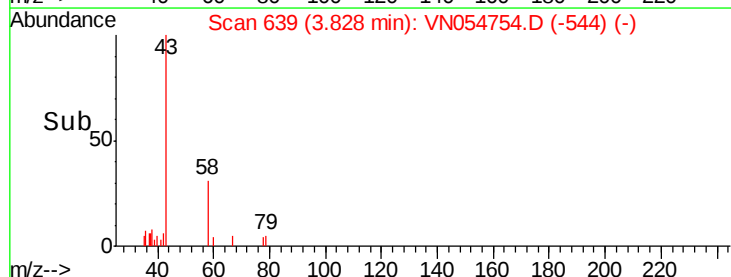
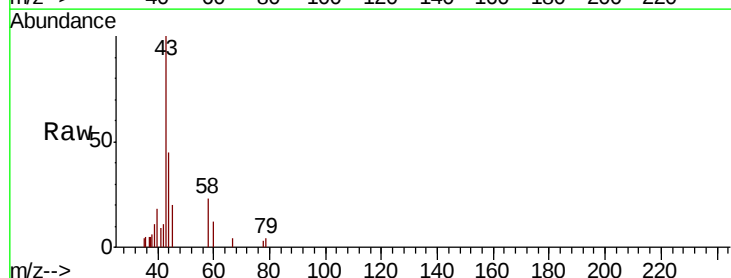
Acq: 28 Mar 2019 19:29

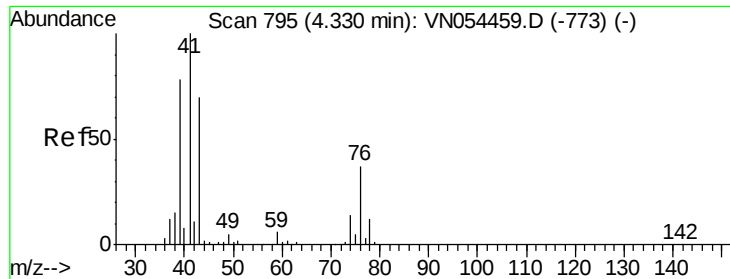
Tgt Ion: 43 Resp: 9299

Ion Ratio Lower Upper

43 100

58 29.4 29.9 44.9#

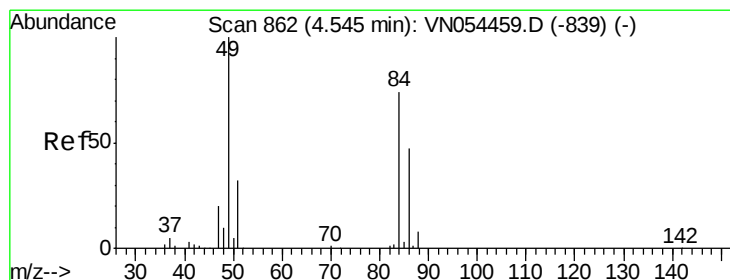
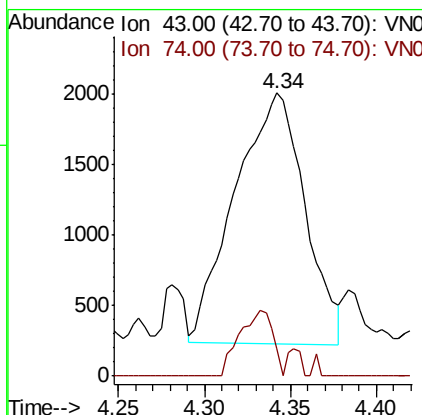
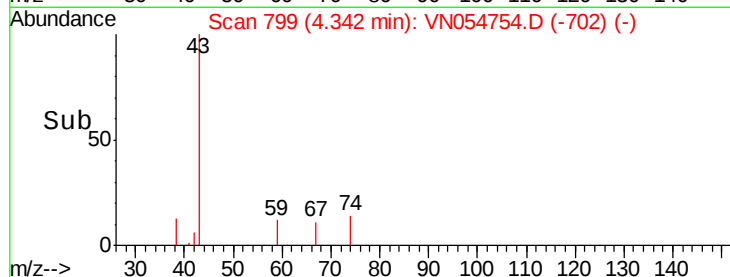
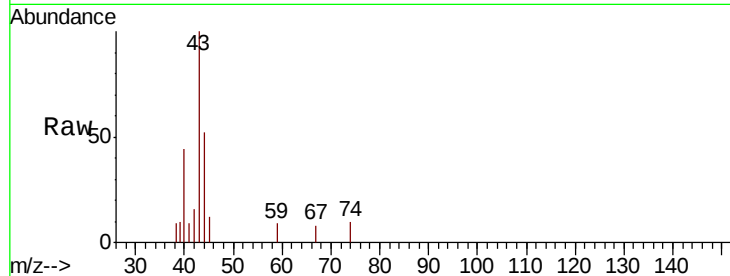




#18
Methyl Acetate
Concen: 1.104 ug/l
RT: 4.34 min Scan# 799
Delta R.T. 0.01 min
Lab File: VN054754.D
Acq: 28 Mar 2019 19:29

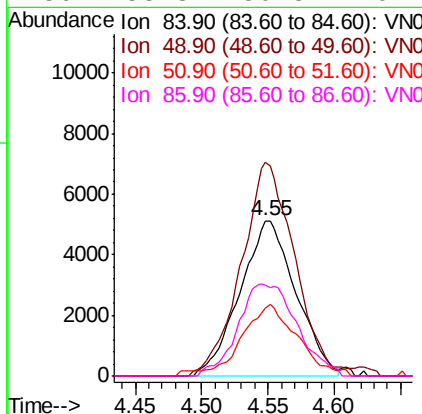
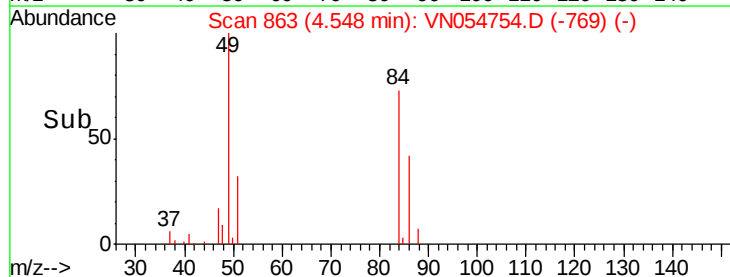
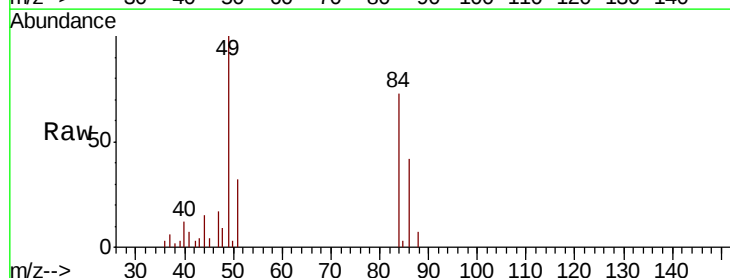
Instrument :
MSVOA_N
ClientSampled :
S7A(20)

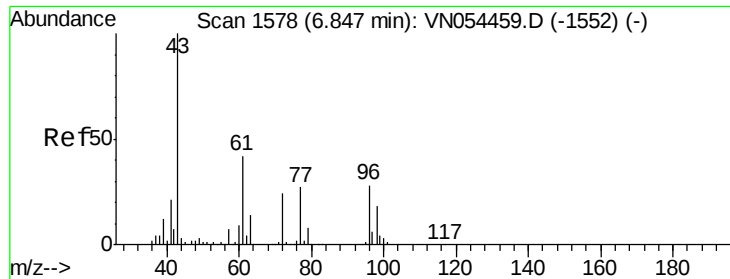
Tot Ion: 43 Resp: 5019
Ion Ratio Lower Upper
43 100
74 12.5 20.8 31.2#



#20
Methylene Chloride
Concen: 2.499 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054754.D
Acq: 28 Mar 2019 19:29

Tgt Ion: 84 Resp: 15017
Ion Ratio Lower Upper
84 100
49 137.5 89.7 134.5#
51 40.5 28.2 42.4
86 58.3 50.8 76.2





#25

2-Butanone

Concen: 0.302 ug/l

RT: 6.86 min Scan# 1582

Delta R.T. 0.01 min

Lab File: VN054754.D

Acq: 28 Mar 2019 19:29

Instrument :

MSVOA_N

ClientSampled :

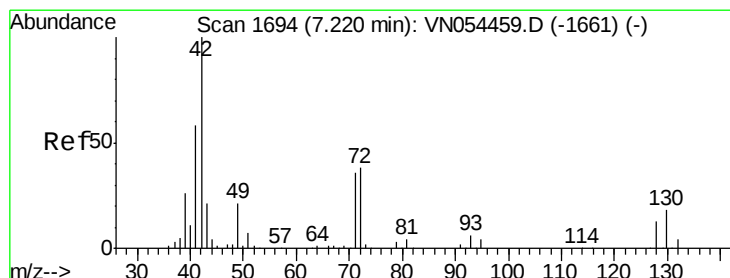
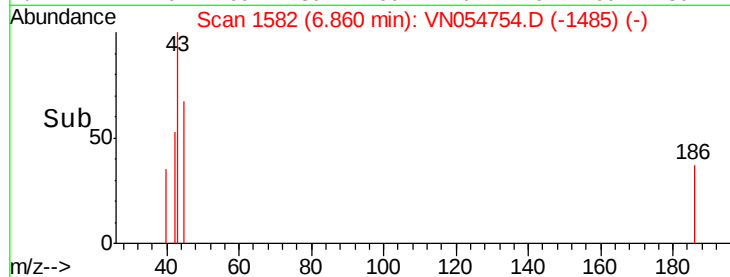
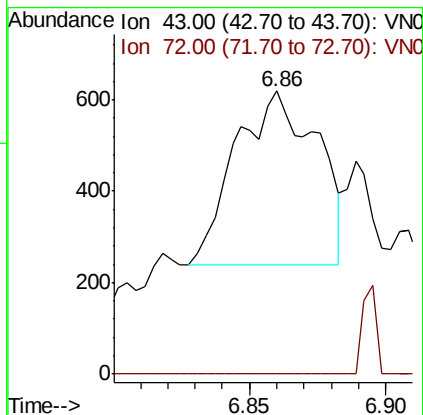
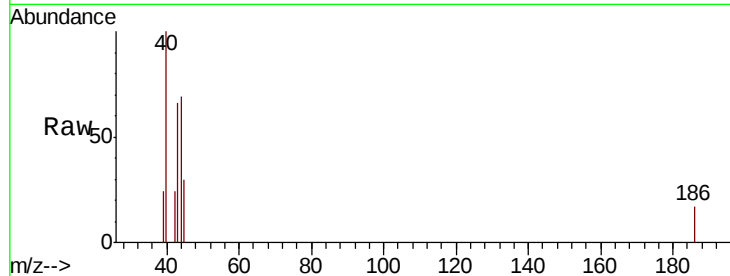
S7A(20)

Tot Ion: 43 Resp: 788

Ion Ratio Lower Upper

43 100

72 0.0 23.0 34.6#



#29

Tetrahydrofuran

Concen: 0.964 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.00 min

Lab File: VN054754.D

Acq: 28 Mar 2019 19:29

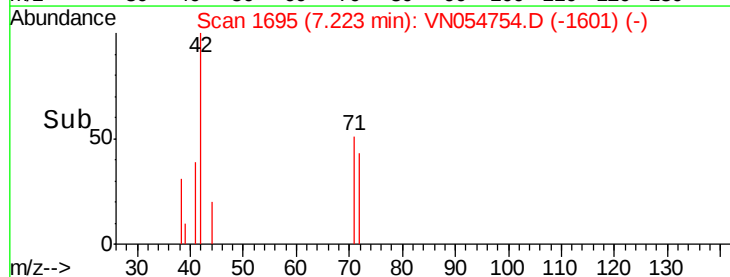
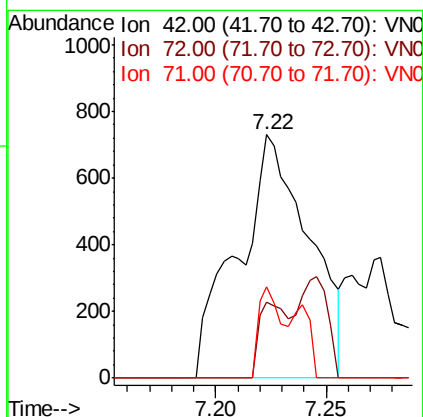
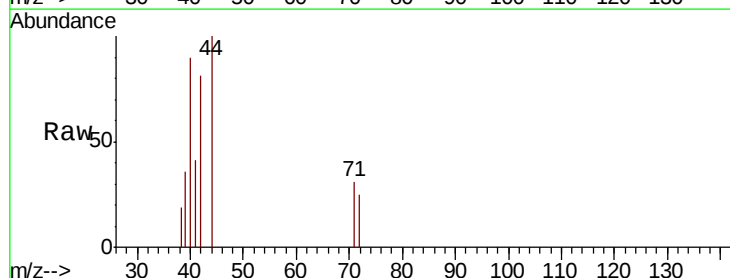
Tgt Ion: 42 Resp: 1634

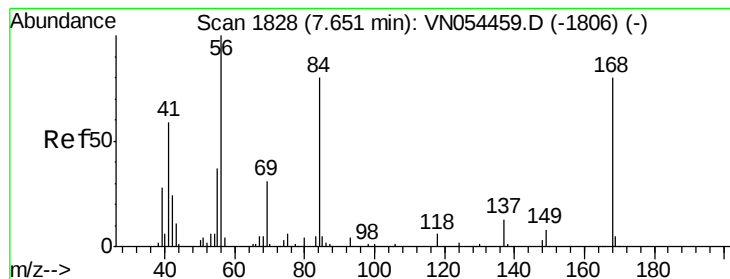
Ion Ratio Lower Upper

42 100

72 12.1 37.8 56.6#

71 12.4 36.2 54.2#





#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN054754.D

Acq: 28 Mar 2019 19:29

Instrument :

MSVOA_N

ClientSampled :

S7A(20)

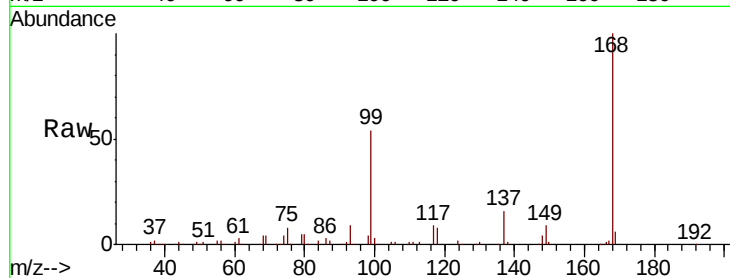
Tot Ion: 56 Resp: 11798

Ion Ratio Lower Upper

56 100

69 170.6 27.8 41.6#

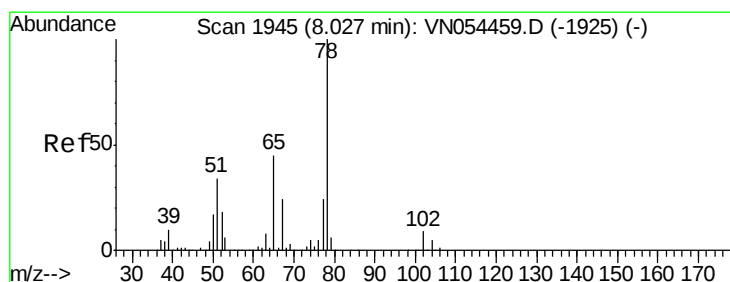
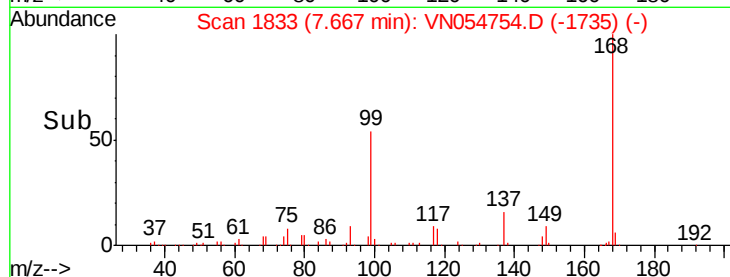
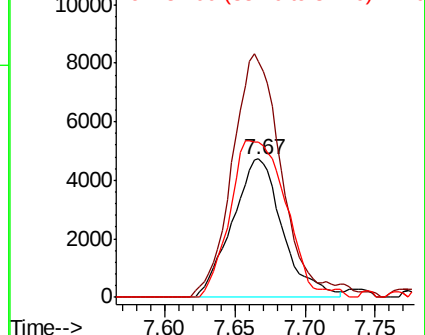
84 112.6 74.6 111.8#



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: 52.421 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN054754.D

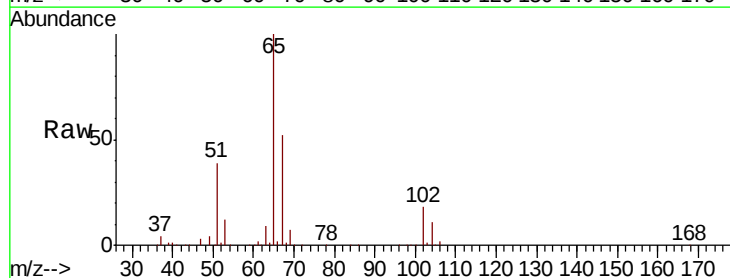
Acq: 28 Mar 2019 19:29

Tgt Ion: 65 Resp: 355481

Ion Ratio Lower Upper

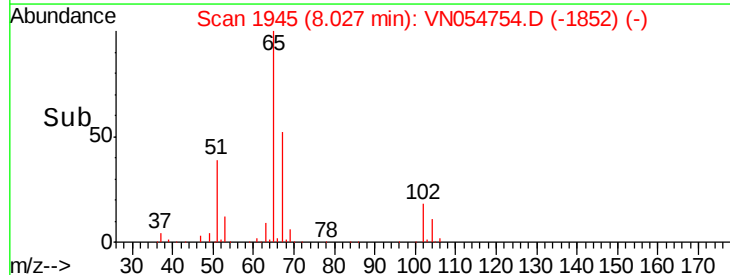
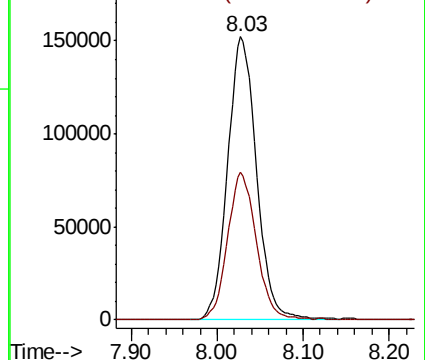
65 100

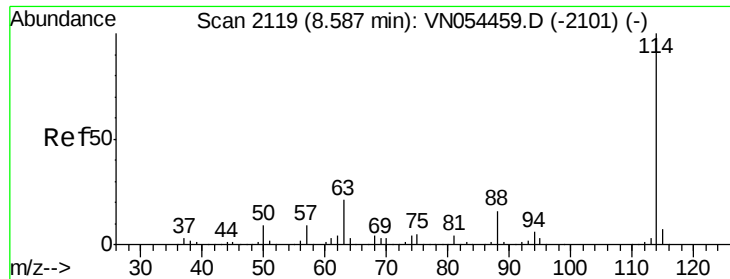
67 52.0 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

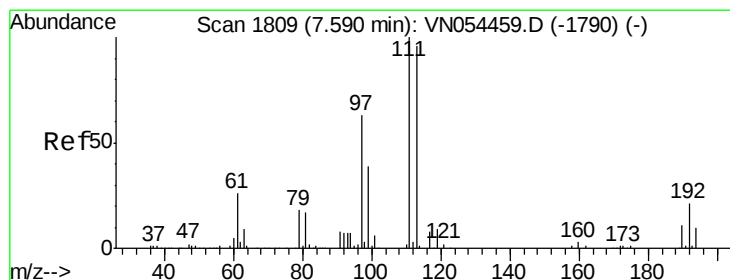
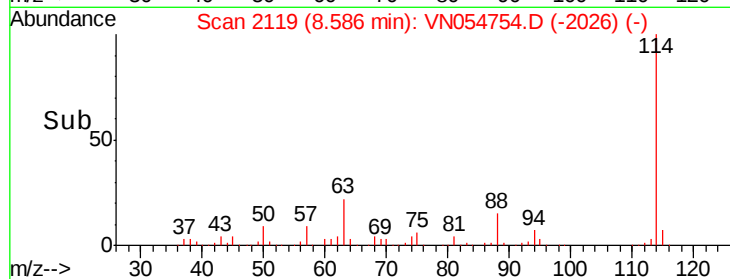
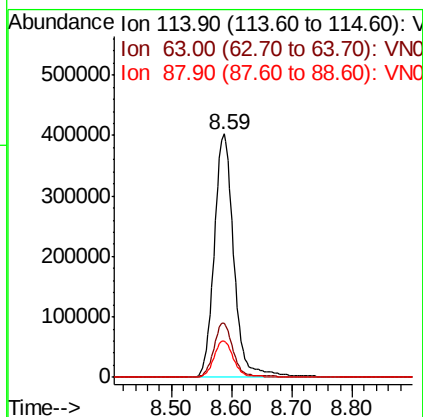
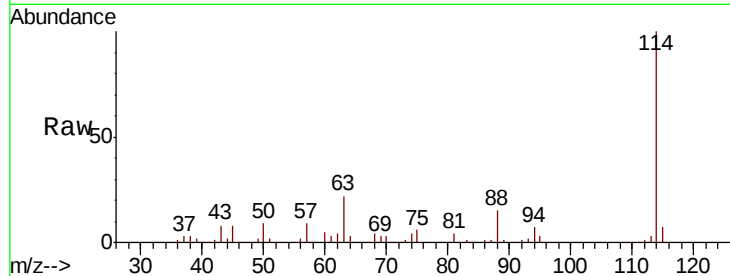




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054754.D
 Acq: 28 Mar 2019 19:29

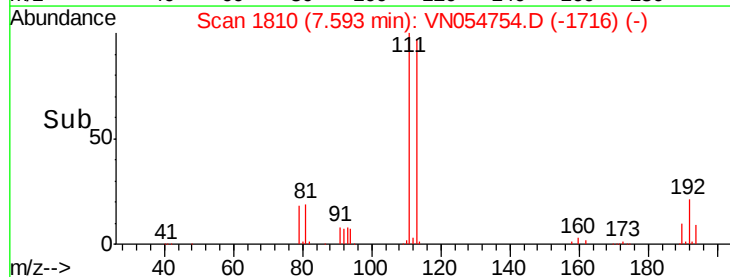
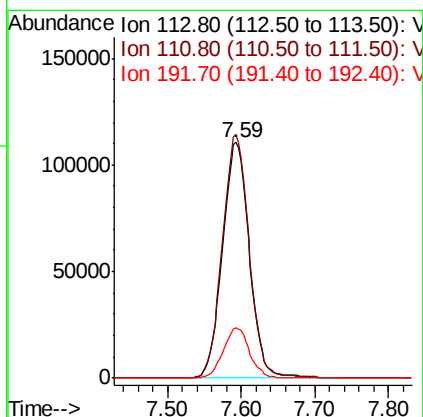
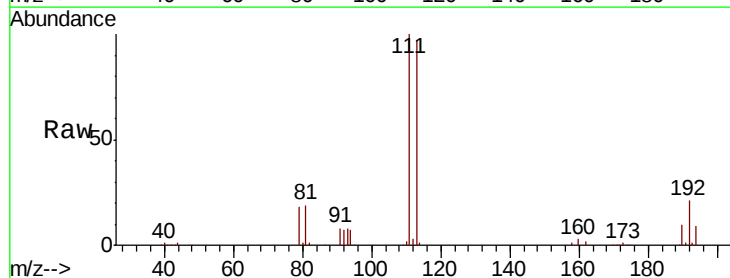
Instrument :
 MSVOA_N
 ClientSampled :
 S7A(20)

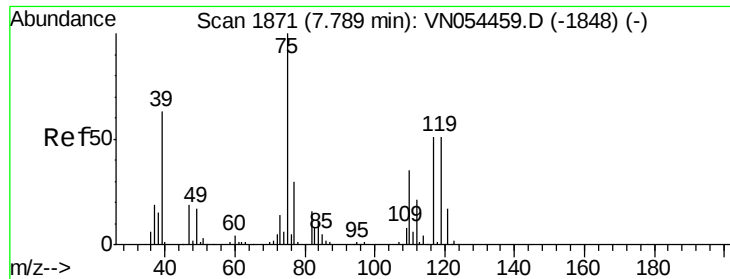
Tot Ion:114 Resp: 896589
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 35.2
 88 15.1 0.0 30.2



#35
 Dibromofluoromethane
 Concen: 48.513 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054754.D
 Acq: 28 Mar 2019 19:29

Tgt Ion:113 Resp: 280226
 Ion Ratio Lower Upper
 113 100
 111 103.0 82.2 123.4
 192 20.9 19.2 28.8

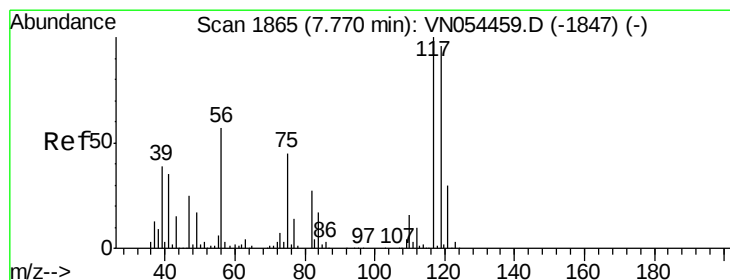
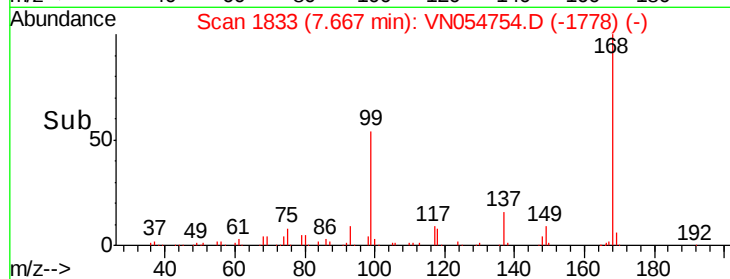
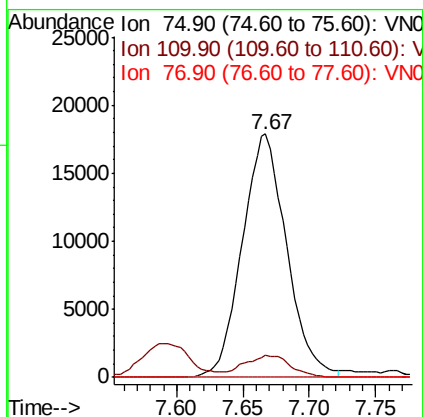
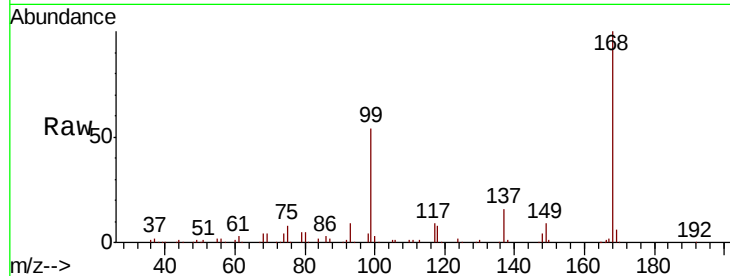




#36
 1,1-Dichloropropene
 Concen: 4.971 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054754.D
 Acq: 28 Mar 2019 19:29

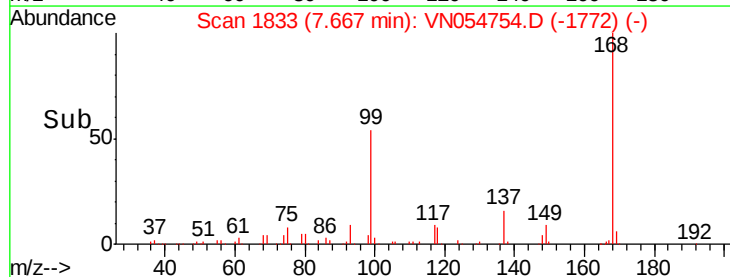
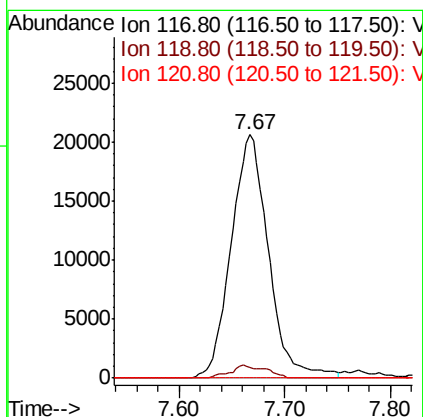
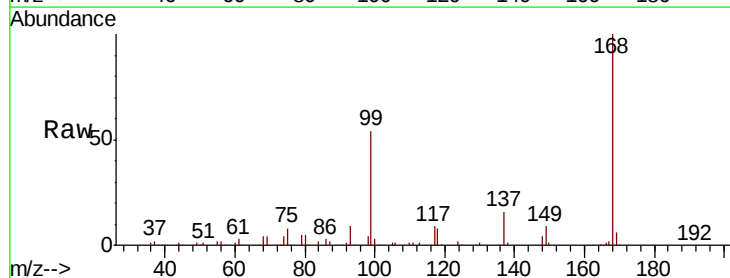
Instrument :
 MSVOA_N
 ClientSampleId :
 STA(20)

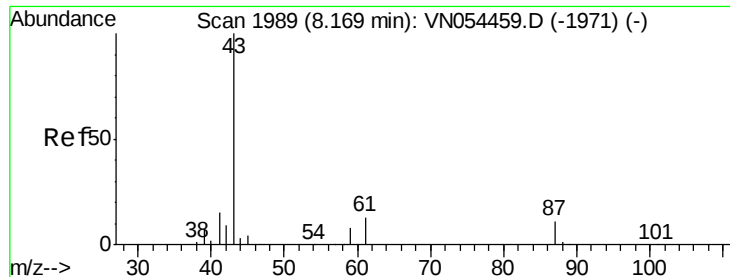
Tot Ion	75	110	77	Resp	Lower	Upper
41675	100	9.4	0.0		19.1	57.5#
					25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.220 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.10 min
 Lab File: VN054754.D
 Acq: 28 Mar 2019 19:29

Tgt Ion	117	119	121	Resp	Lower	Upper
50673	100	4.1	0.0		76.3	114.5#
					24.6	36.8#





#43

Isopropyl Acetate

Concen: 1.486 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054754.D

Acq: 28 Mar 2019 19:29

Instrument :

MSVOA_N

ClientSampleID :

S7A(20)

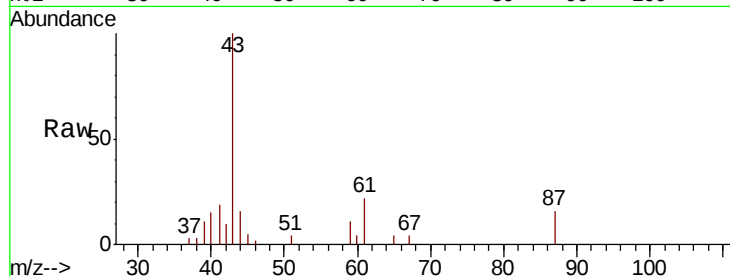
Tot Ion: 43 Resp: 14964

Ion Ratio Lower Upper

43 100

61 18.5 15.8 23.8

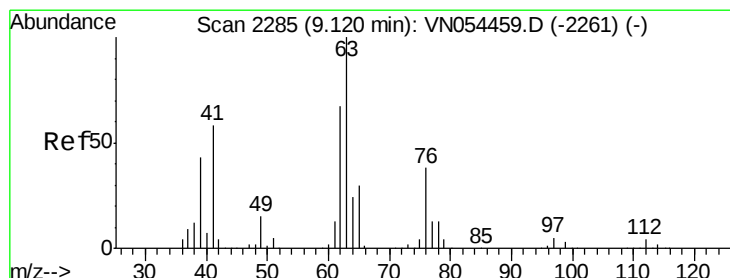
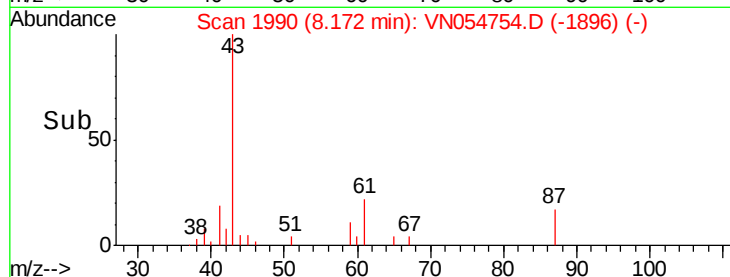
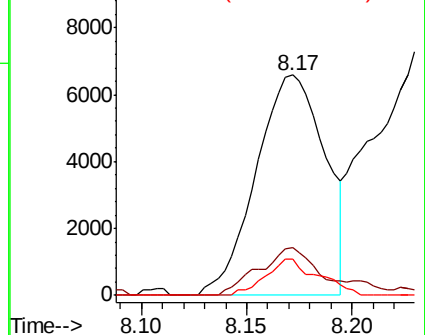
87 12.6 12.0 18.0



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: 0.229 ug/l

RT: 9.26 min Scan# 2330

Delta R.T. 0.14 min

Lab File: VN054754.D

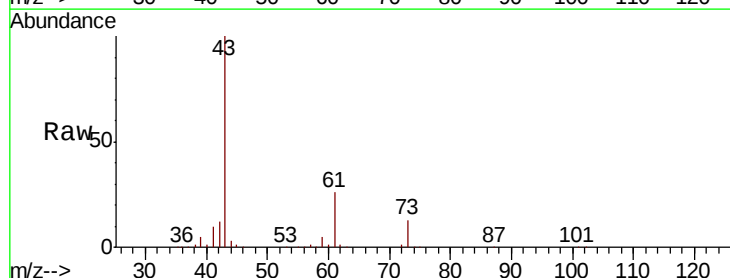
Acq: 28 Mar 2019 19:29

Tgt Ion: 63 Resp: 1472

Ion Ratio Lower Upper

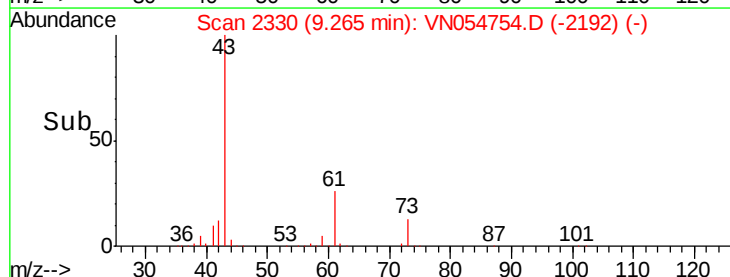
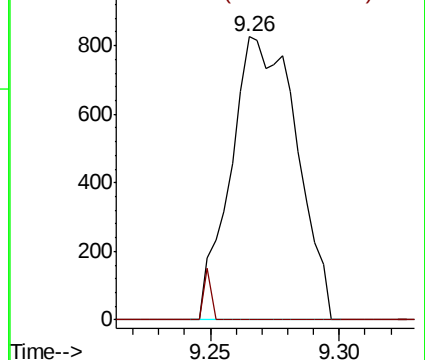
63 100

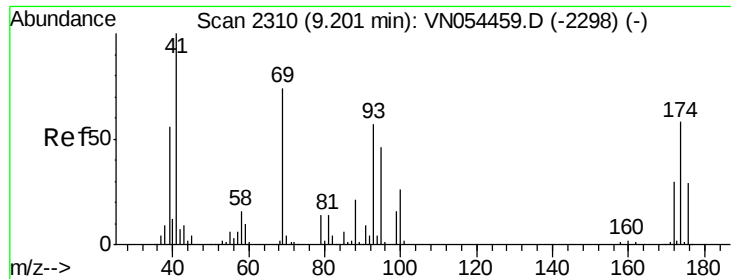
65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

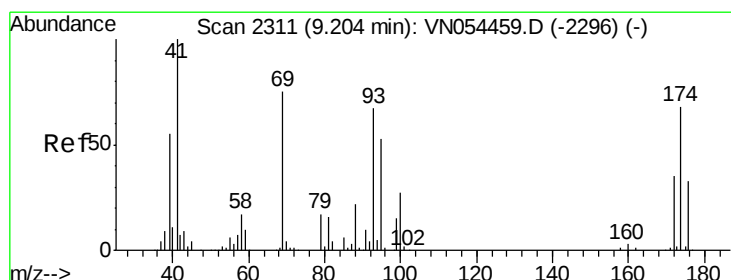
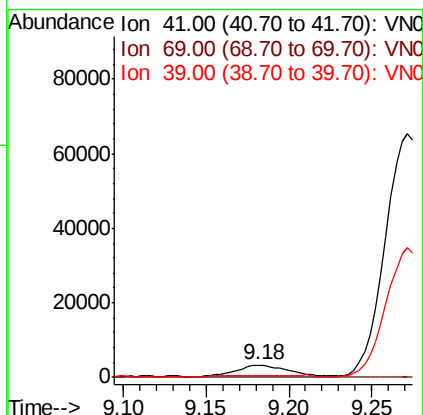
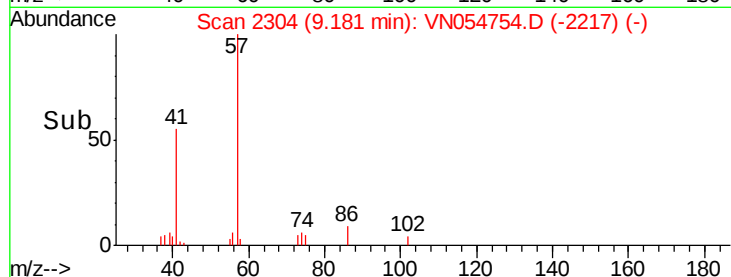
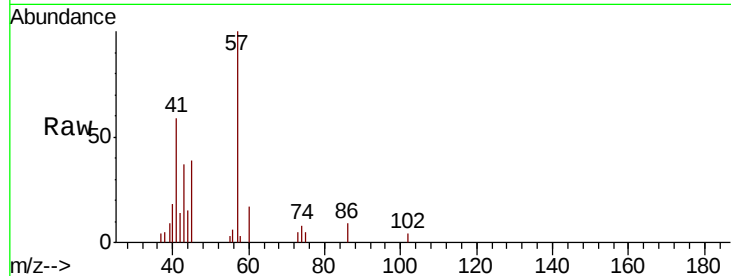




#48
Methyl methacrylate
Concen: 1.216 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN054754.D
Acq: 28 Mar 2019 19:29

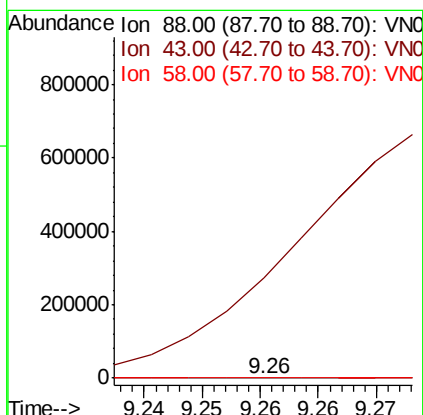
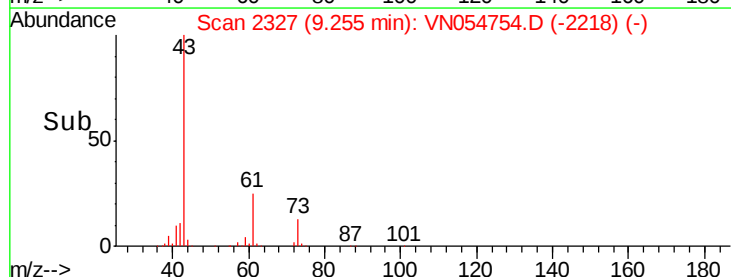
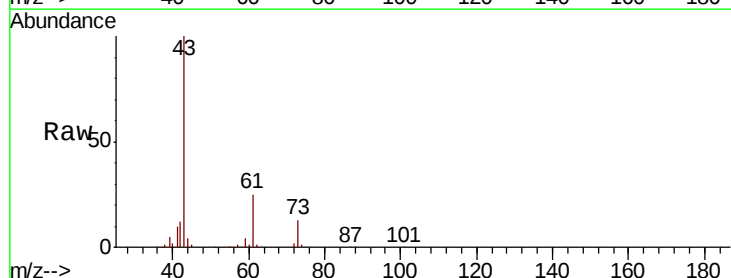
Instrument :
MSVOA_N
ClientSampled :
S7A(20)

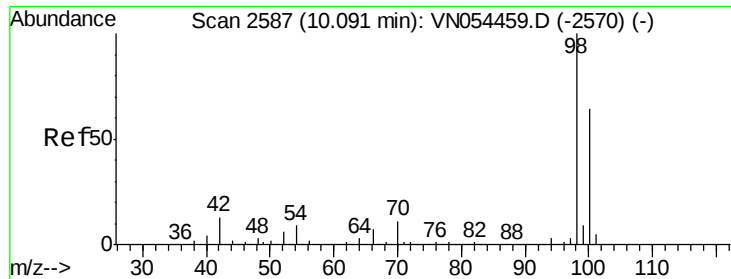
Tot Ion: 41 Resp: 6646
Ion Ratio Lower Upper
41 100
69 0.0 72.6 108.8#
39 0.0 47.5 71.3#



#49
1,4-Dioxane
Concen: 0.491 ug/l
RT: 9.26 min Scan# 2327
Delta R.T. 0.05 min
Lab File: VN054754.D
Acq: 28 Mar 2019 19:29

Tgt Ion: 88 Resp: 30
Ion Ratio Lower Upper
88 100
43 4511936.7 24.1 36.1#
58 17826.7 50.8 76.2#





#50

Toluene-d8

Concen: 49.414 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054754.D

Acq: 28 Mar 2019 19:29

Instrument :

MSVOA_N

ClientSampled :

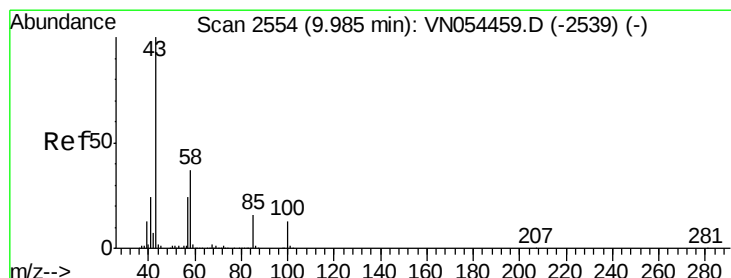
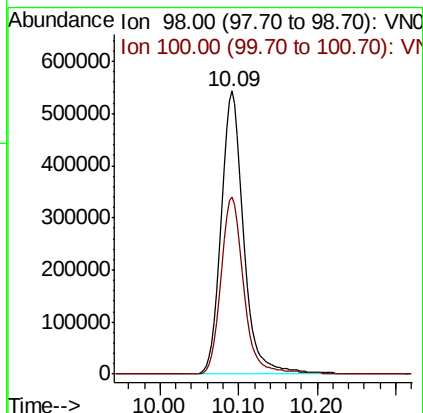
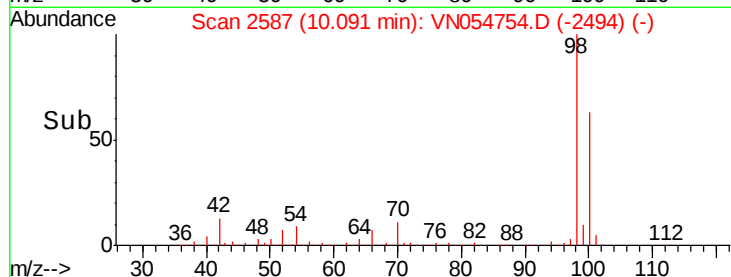
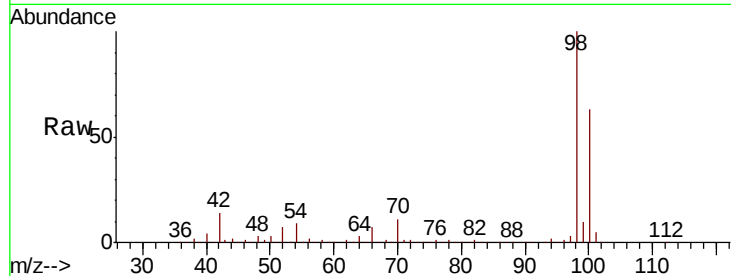
S7A(20)

Tot Ion: 98 Resp: 1073042

Ion Ratio Lower Upper

98 100

100 63.5 51.2 76.8



#51

4-Methyl-2-Pentanone

Concen: 1.653 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN054754.D

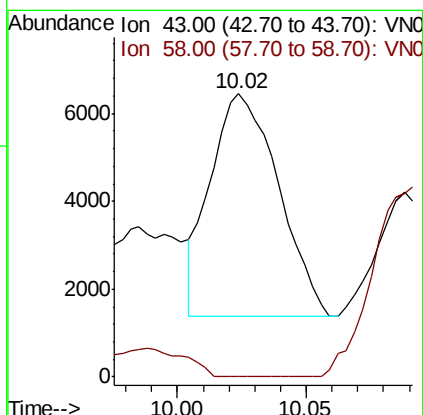
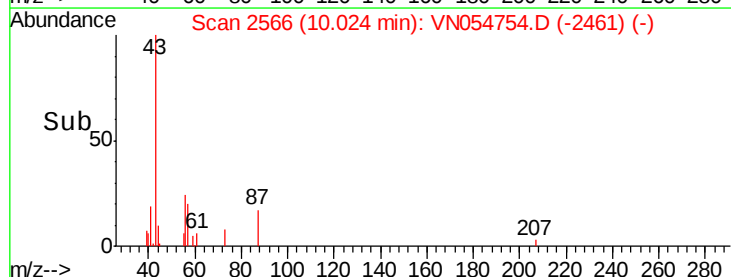
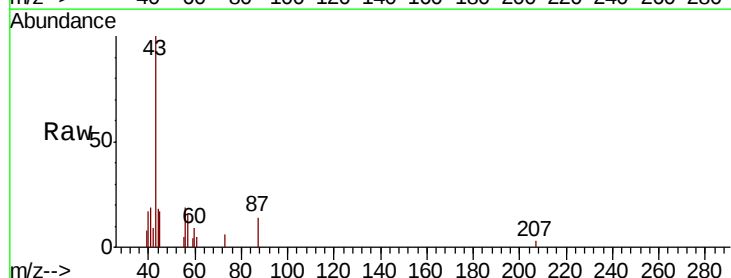
Acq: 28 Mar 2019 19:29

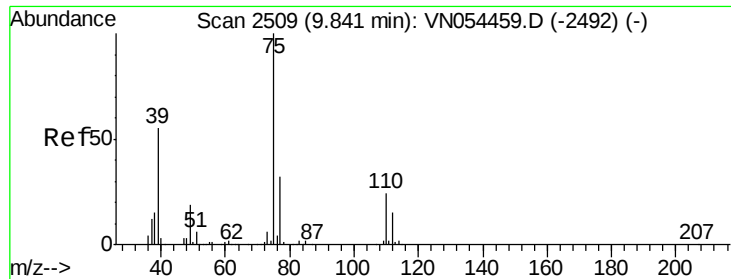
Tgt Ion: 43 Resp: 9226

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.6#



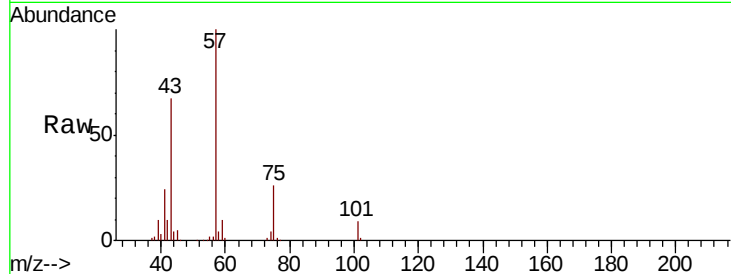


#54

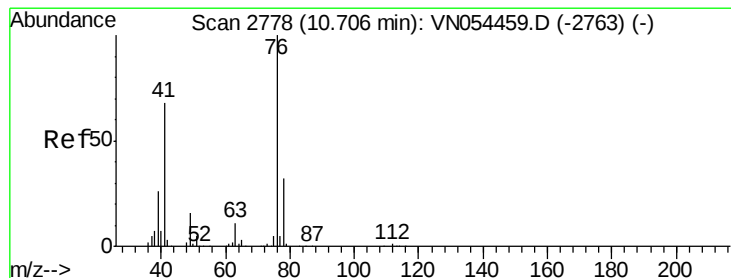
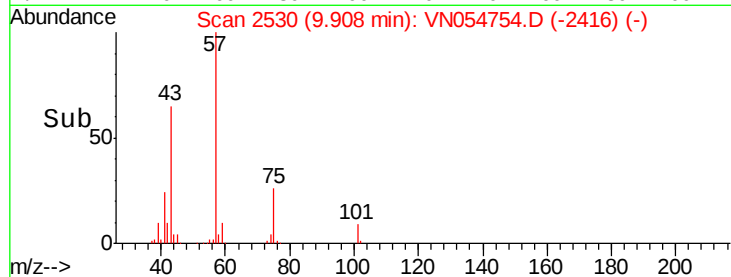
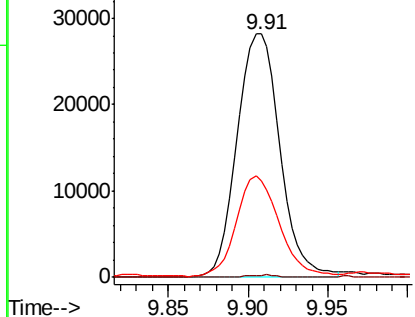
cis-1,3-Dichloropropene
 Concen: 5.649 ug/l
 RT: 9.91 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN054754.D
 Acq: 28 Mar 2019 19:29

Instrument :
 MSVOA_N
 ClientSampleId :
 S7A(20)

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.9	25.4	38.0#
39	39.8	37.2	55.8



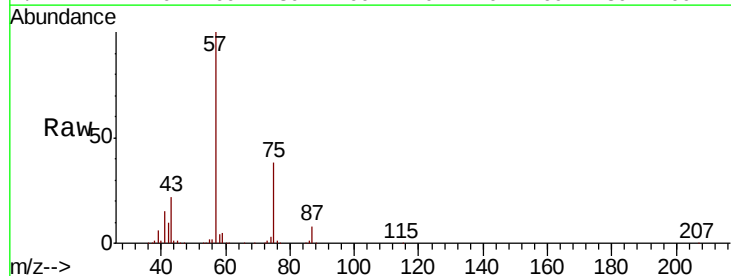
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



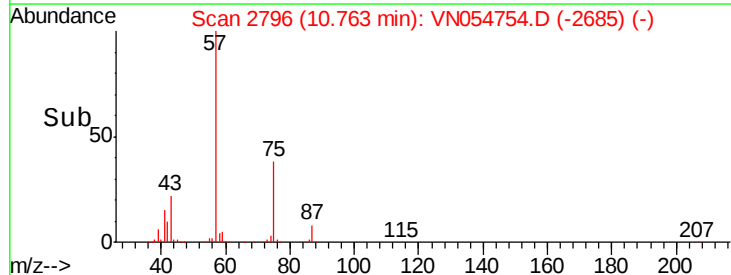
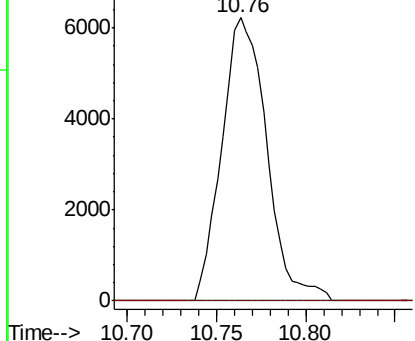
#57

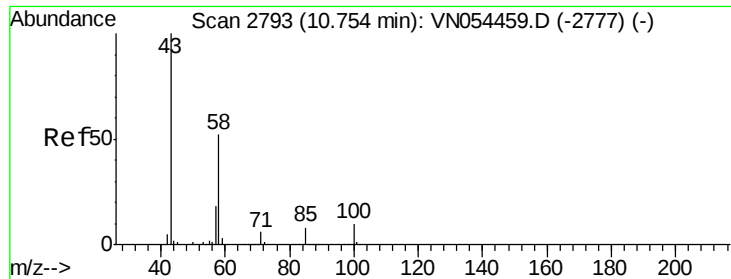
1,3-Dichloropropane
 Concen: 1.186 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN054754.D
 Acq: 28 Mar 2019 19:29

Tgt 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: 46.017 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN054754.D

Acq: 28 Mar 2019 19:29

Instrument :

MSVOA_N

ClientSampleId :

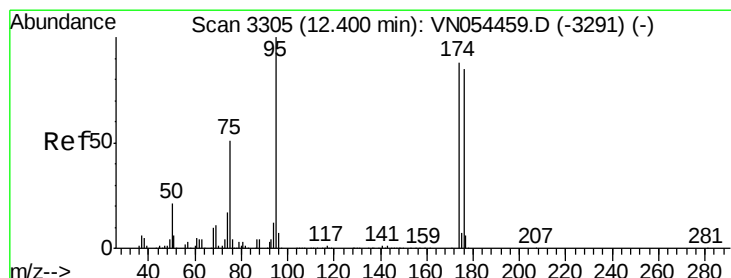
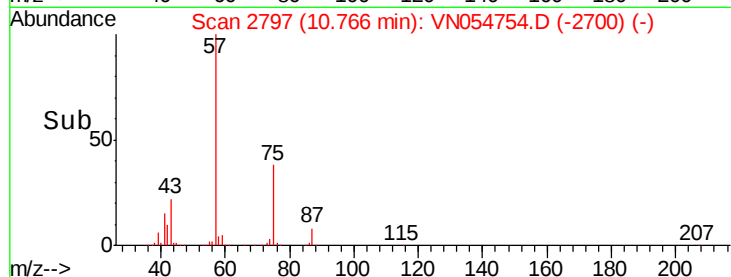
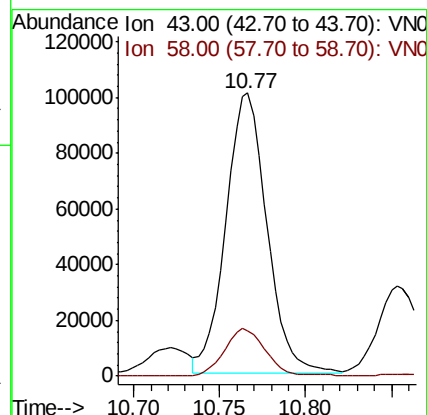
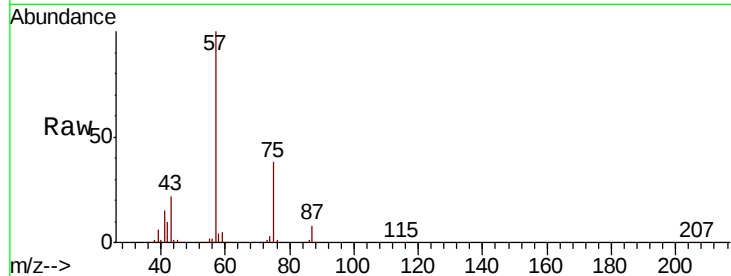
S7A(20)

Tot Ion: 43 Resp: 167741

Ion Ratio Lower Upper

43 100

58 17.1 28.0 83.9#



#62

4-Bromofluorobenzene

Concen: 44.582 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054754.D

Acq: 28 Mar 2019 19:29

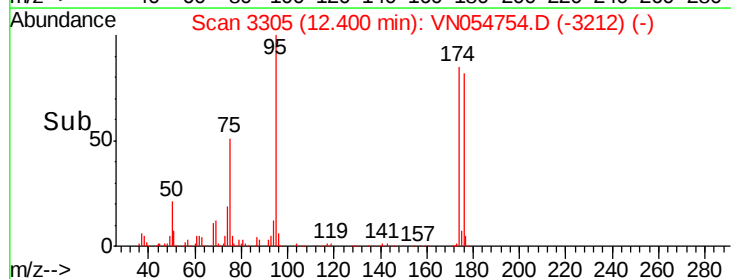
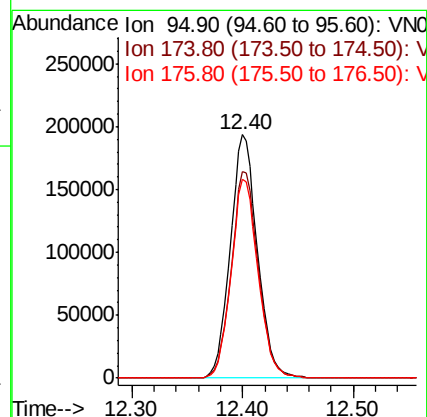
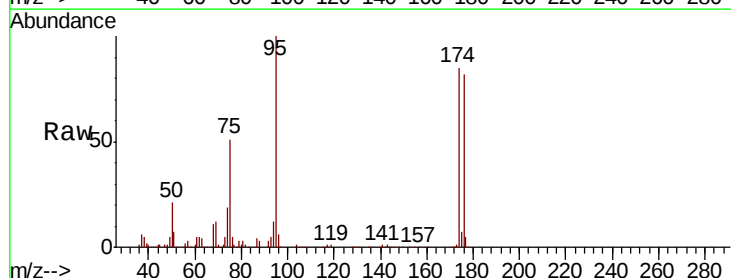
Tgt Ion: 95 Resp: 329429

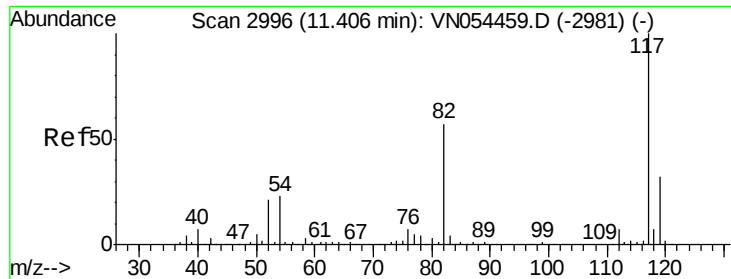
Ion Ratio Lower Upper

95 100

174 84.7 0.0 191.0

176 81.3 0.0 187.4

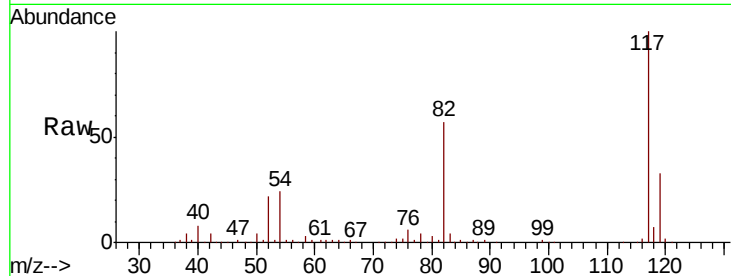




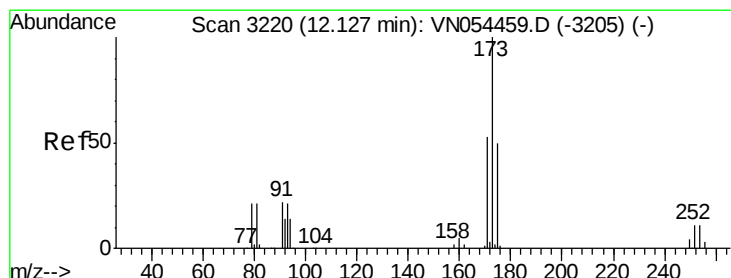
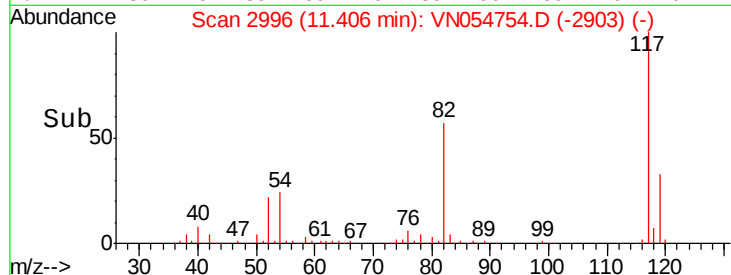
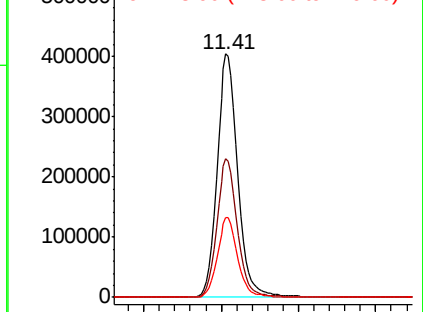
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054754.D
Acq: 28 Mar 2019 19:29

Instrument :
MSVOA_N
ClientSampled :
S7A(20)

Tot Ion:117 Resp: 755154
Ion Ratio Lower Upper
117 100
82 57.1 40.0 60.0
119 32.8 25.8 38.6

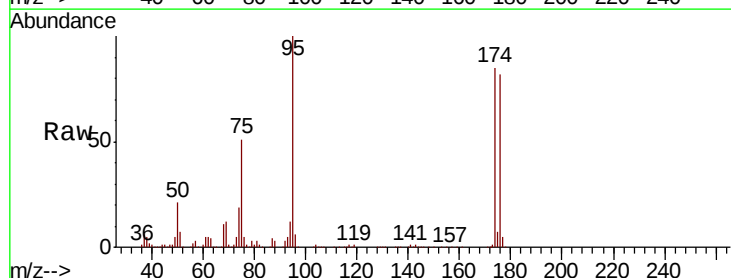


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

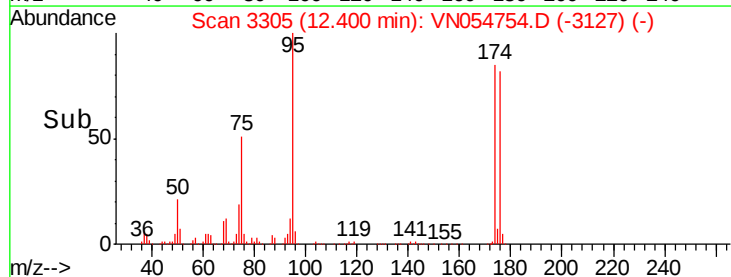
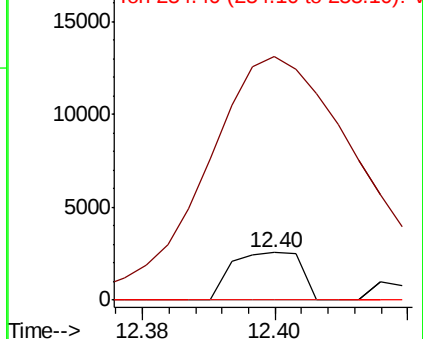


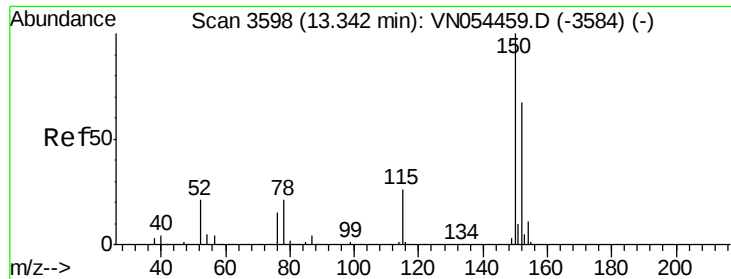
#71
Bromoform
Concen: 2.684 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN054754.D
Acq: 28 Mar 2019 19:29

Tgt Ion:173 Resp: 1843
Ion Ratio Lower Upper
173 100
175 1008.4 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: VN054754.D

Acq: 28 Mar 2019 19:29

Instrument :

MSVOA_N

ClientSampleId :

S7A(20)

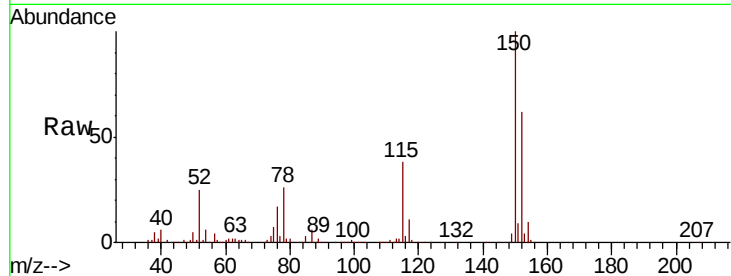
Tot Ion:152 Resp: 268866

Ion Ratio Lower Upper

152 100

115 59.2 27.2 81.6

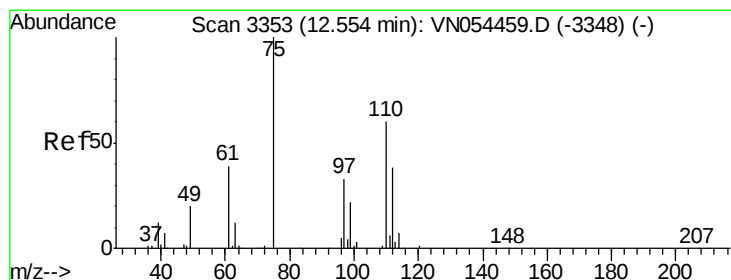
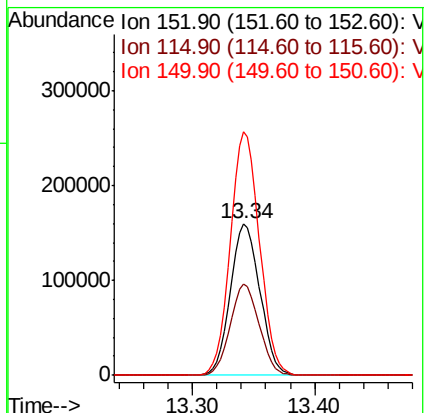
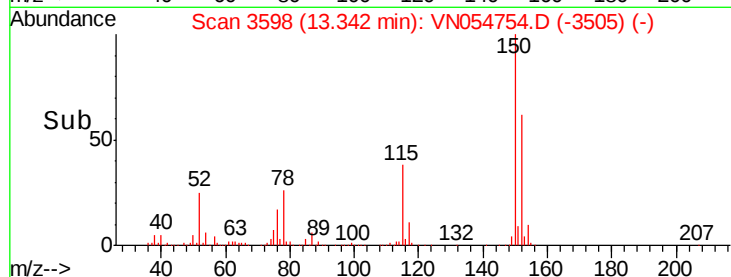
150 158.6 0.0 349.2



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



#76

1,2,3-Trichloropropane

Concen: 39.672 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054754.D

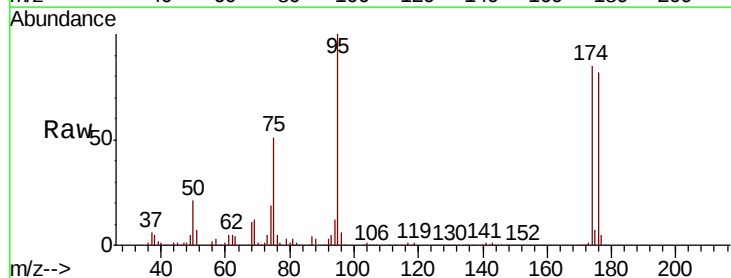
Acq: 28 Mar 2019 19:29

Tgt Ion: 75 Resp: 169261

Ion Ratio Lower Upper

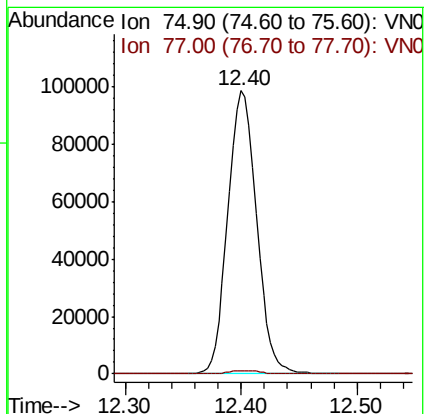
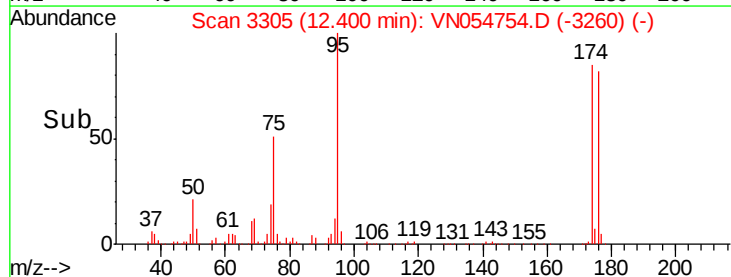
75 100

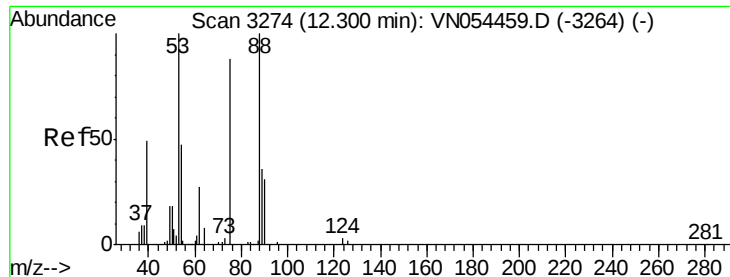
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 131.260 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054754.D

Acq: 28 Mar 2019 19:29

Instrument :

MSVOA_N

ClientSampled :

S7A(20)

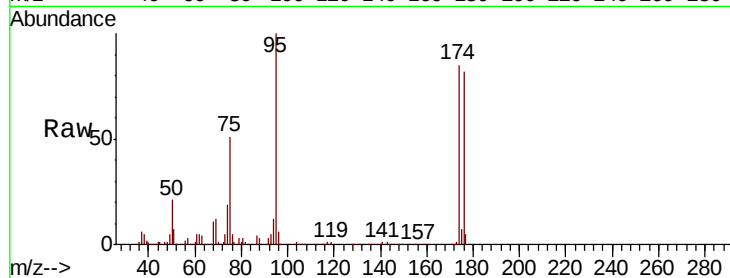
Tot Ion: 75 Resp: 169261

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

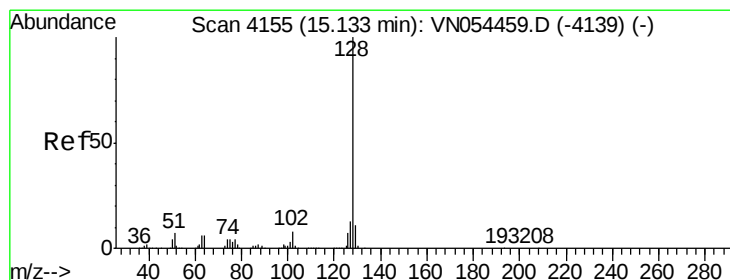
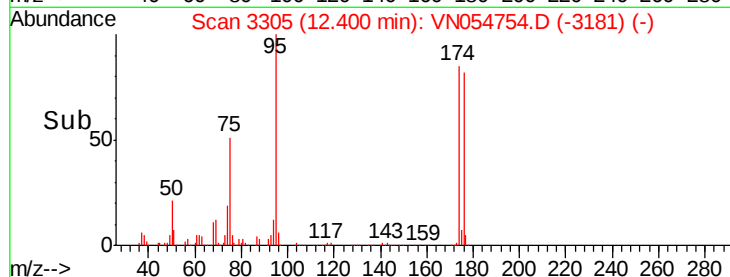
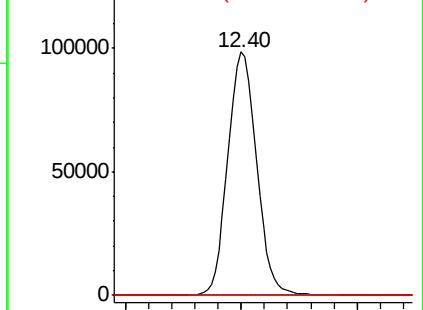
89 0.0 39.2 58.8#



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



#95

Naphthalene

Concen: 0.217 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN054754.D

Acq: 28 Mar 2019 19:29

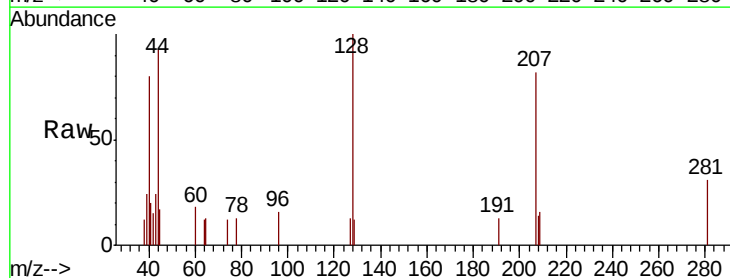
Tgt Ion:128 Resp: 2083

Ion Ratio Lower Upper

128 100

127 12.2 10.1 15.1

129 13.0 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

