

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071619\
 Data File : VN056769.D
 Acq On : 16 Jul 2019 15:22
 Operator : JC/SP
 Sample : K3847-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-1

Quant Time: Jul 17 01:09:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 07:03:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	251158	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	453580	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	468939	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	165584	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	148572	53.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.96%	
35) Dibromofluoromethane	7.59	113	135757	48.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.18%	
50) Toluene-d8	10.09	98	565034	51.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.66%	
62) 4-Bromofluorobenzene	12.40	95	199381	54.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.46%	

Target Compounds

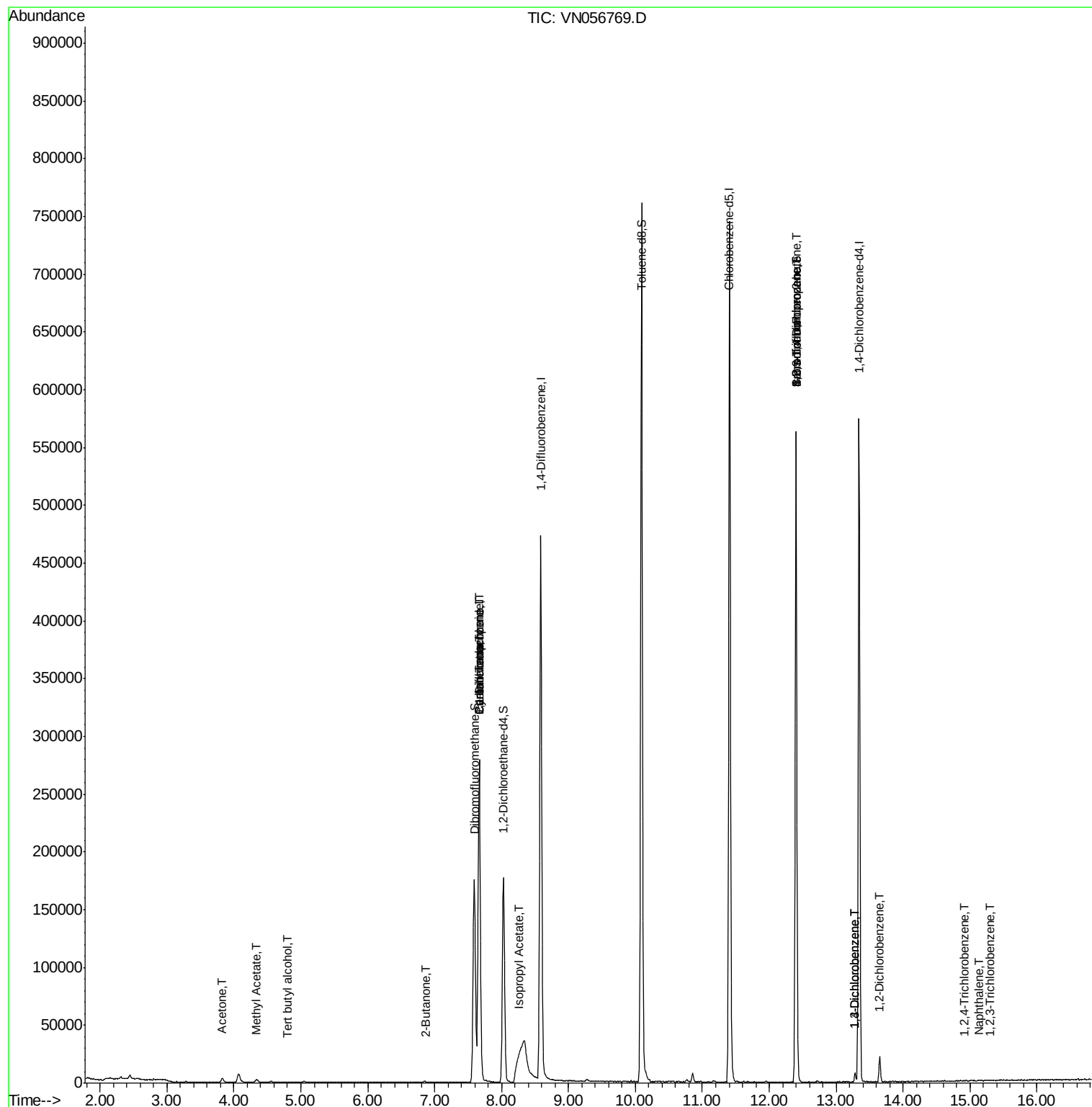
						Qvalue
11) Tert butyl alcohol	4.80	59	292	0.631	ug/l #	73
16) Acetone	3.83	43	6394	4.994	ug/l	91
18) Methyl Acetate	4.34	43	5273	0.877	ug/l #	90
25) 2-Butanone	6.85	43	535	0.286	ug/l #	48
31) Cyclohexane	7.67	56	3936	0.886	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	16590	3.953	ug/l #	48
38) Carbon Tetrachloride	7.66	117	21920	5.569	ug/l #	16
43) Isopropyl Acetate	8.26	43	23537	3.619	ug/l #	54
71) Bromoform	12.40	173	1307	0.487	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	94073	25.976	ug/l #	100
79) 2-Chlorotoluene	12.40	91	507	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	94073	80.222	ug/l #	13
87) 1,3-Dichlorobenzene	13.28	146	3618	0.632	ug/l	97
88) 1,4-Dichlorobenzene	13.28	146	3618	0.650	ug/l	96
91) 1,2-Dichlorobenzene	13.65	146	10566	1.805	ug/l	99
93) 1,2,4-Trichlorobenzene	14.92	180	59	3.708	ug/l #	1
95) Naphthalene	15.13	128	300	4.556	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	99	3.352	ug/l #	13

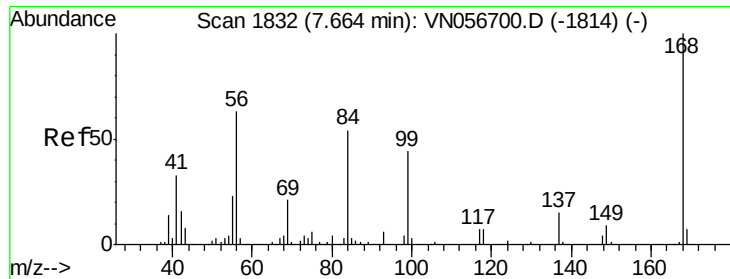
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056769.D

Acq: 16 Jul 2019 15:22

Instrument :

MSVOA_N

ClientSampleId :

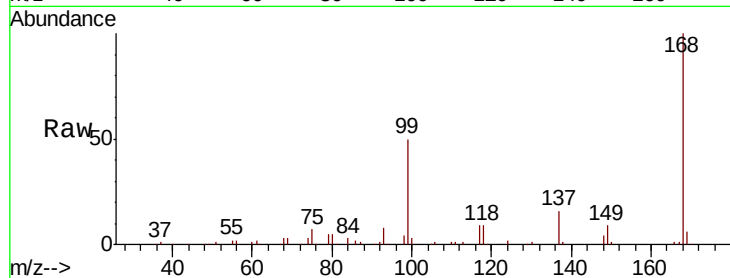
MW-1

Tot Ion:168 Resp: 251158

Ion Ratio Lower Upper

168 100

99 49.7 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

100000

80000

60000

40000

20000

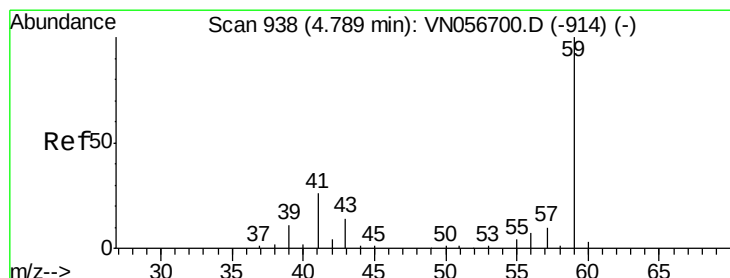
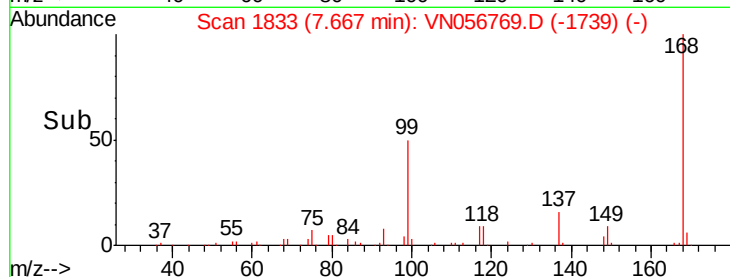
0

Time-->

7.60

7.70

7.80



#11

Tert butyl alcohol

Concen: 0.631 ug/l

RT: 4.80 min Scan# 942

Delta R.T. 0.01 min

Lab File: VN056769.D

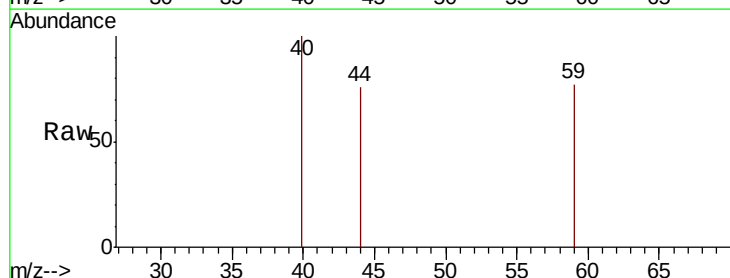
Acq: 16 Jul 2019 15:22

Tgt Ion: 59 Resp: 292

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.80

300

200

100

0

Time-->

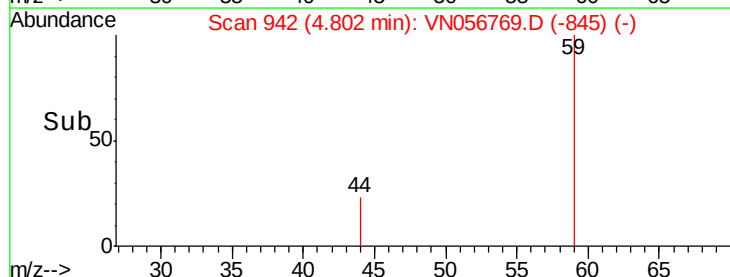
4.78

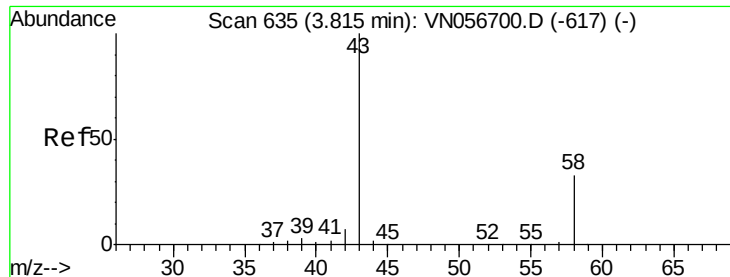
4.79

4.80

4.81

4.82





#16

Acetone

Concen: 4.994 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN056769.D

Acq: 16 Jul 2019 15:22

Instrument :

MSVOA_N

ClientSampled :

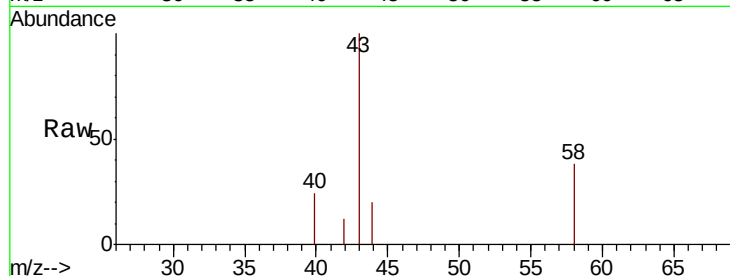
MW-1

Tot Ion: 43 Resp: 6394

Ion Ratio Lower Upper

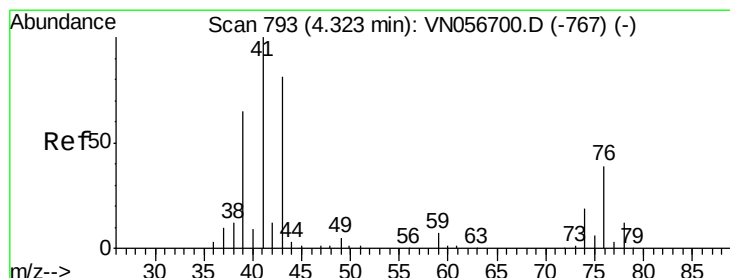
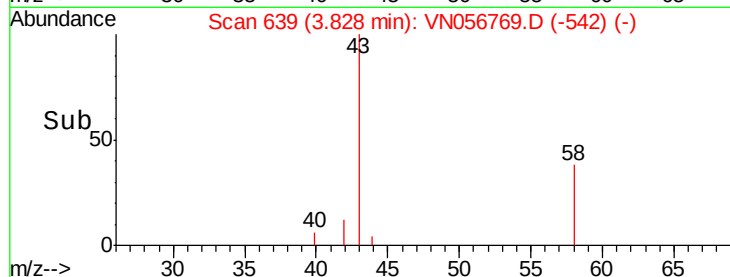
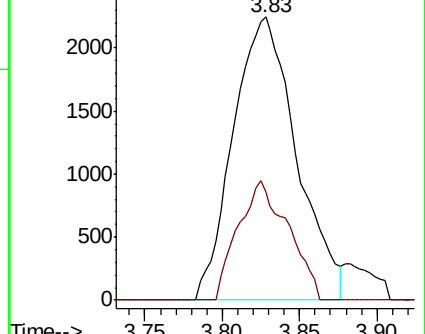
43 100

58 38.3 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.877 ug/l

RT: 4.34 min Scan# 799

Delta R.T. 0.02 min

Lab File: VN056769.D

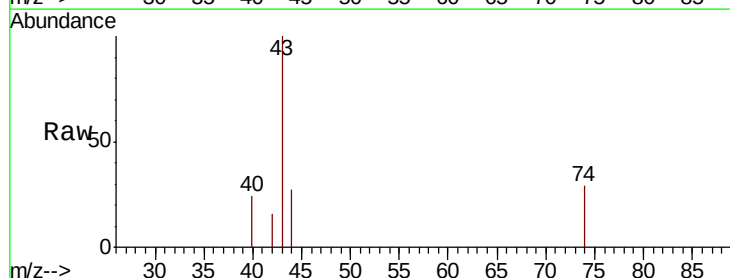
Acq: 16 Jul 2019 15:22

Tgt Ion: 43 Resp: 5273

Ion Ratio Lower Upper

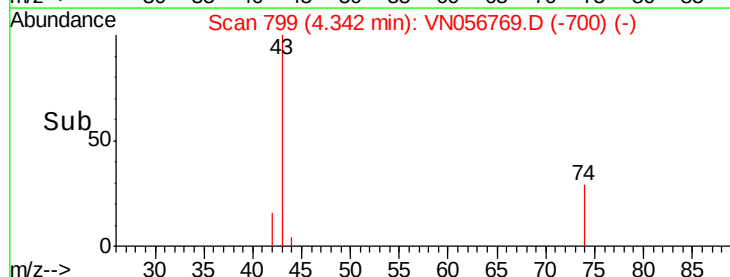
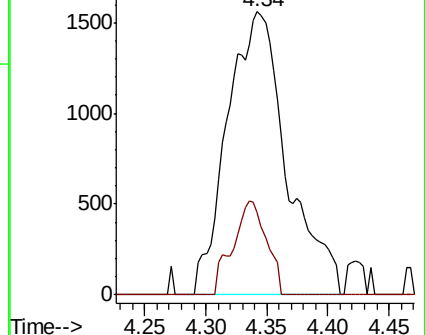
43 100

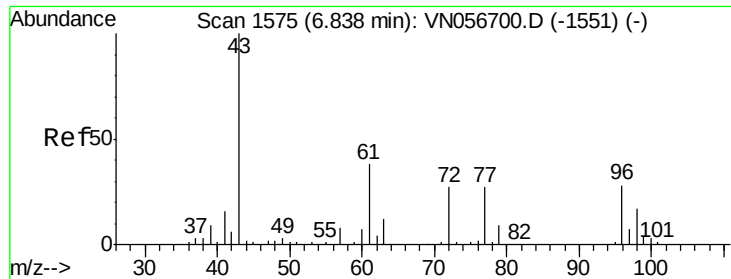
74 18.8 18.9 28.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

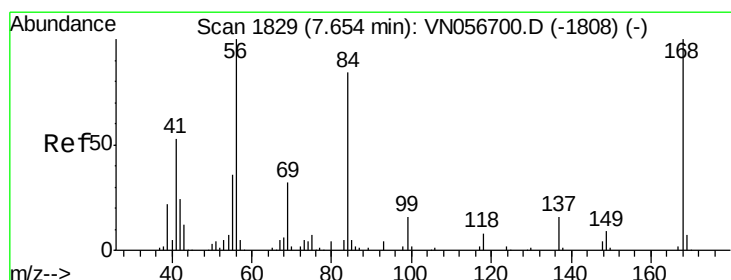
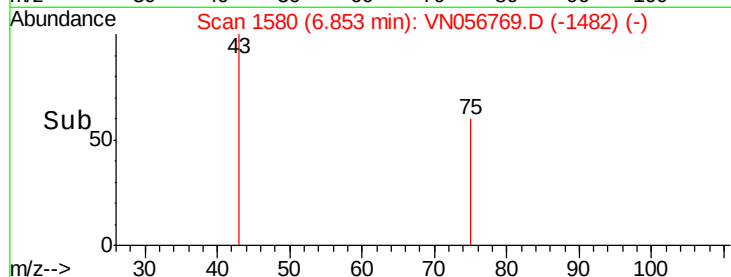
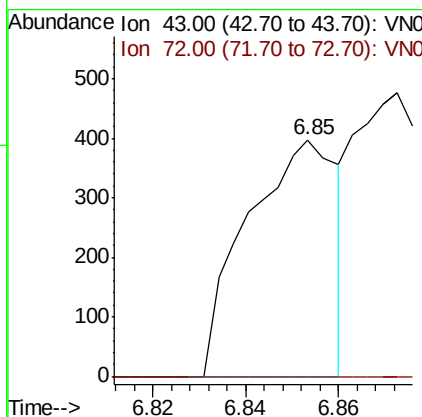
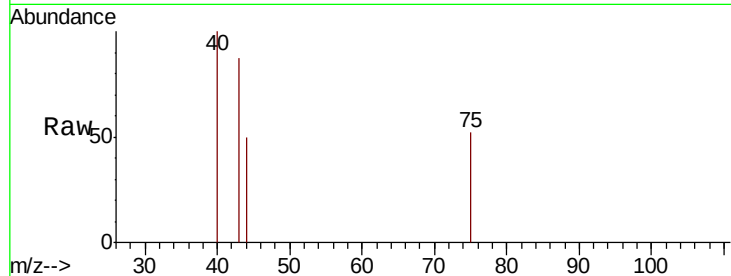




#25
2-Butanone
Concen: 0.286 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.02 min
Lab File: VN056769.D
Acq: 16 Jul 2019 15:22

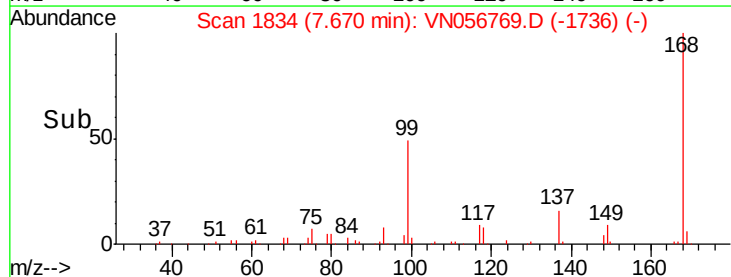
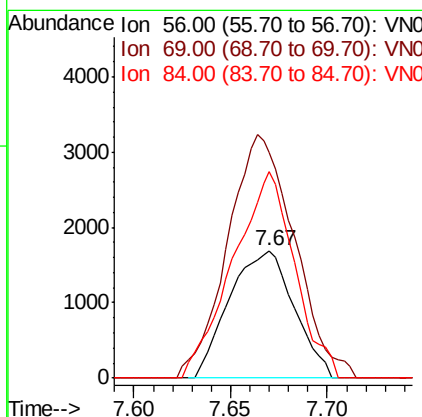
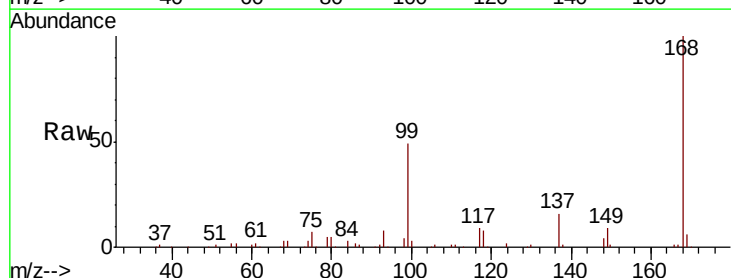
Instrument :
MSVOA_N
ClientSampled :
MW-1

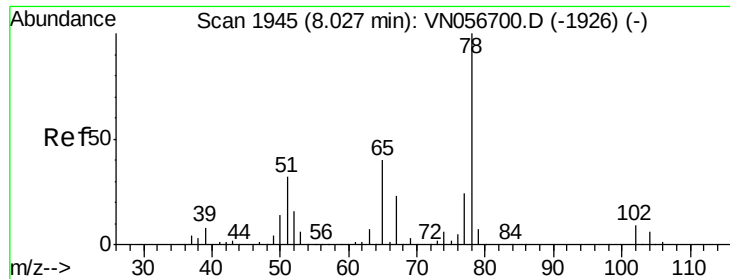
Tot Ion: 43 Resp: 535
Ion Ratio Lower Upper
43 100
72 0.0 21.2 31.8#



#31
Cyclohexane
Concen: 0.886 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. 0.02 min
Lab File: VN056769.D
Acq: 16 Jul 2019 15:22

Tgt Ion: 56 Resp: 3936
Ion Ratio Lower Upper
56 100
69 162.7 25.8 38.8#
84 162.5 67.4 101.0#

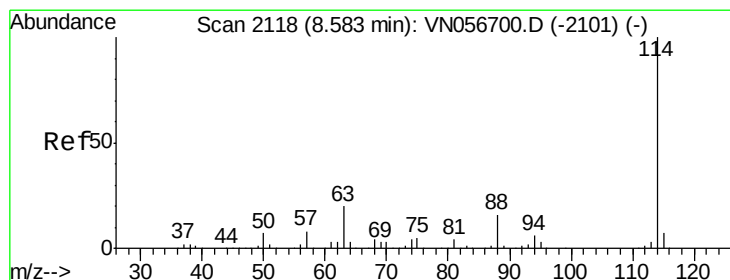
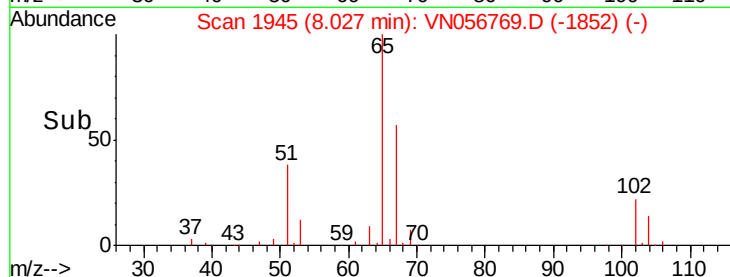
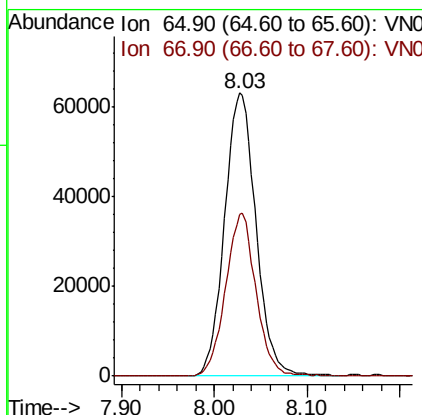
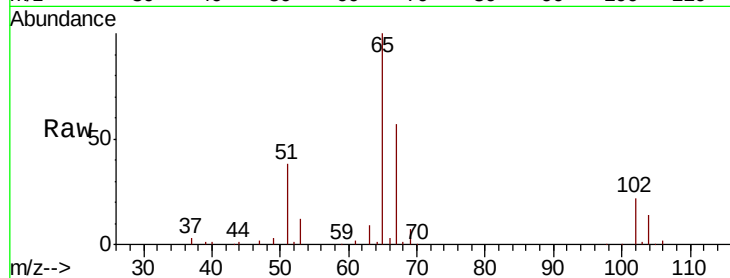




#33
 1,2-Dichloroethane-d4
 Concen: 53.479 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN056769.D
 Acq: 16 Jul 2019 15:22

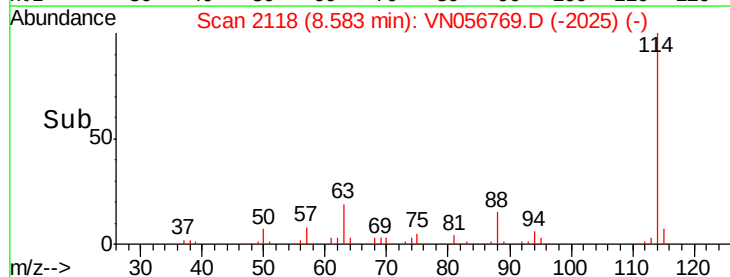
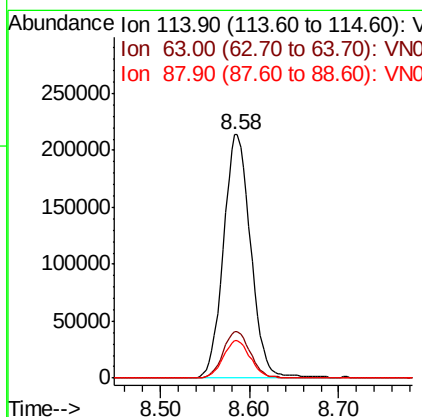
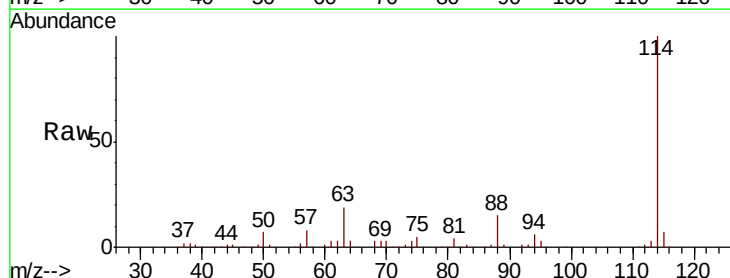
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-1

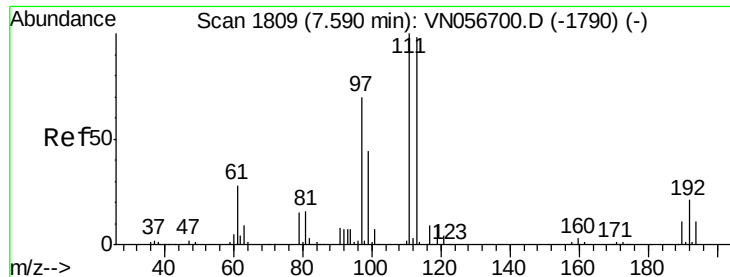
Tot Ion: 65 Resp: 148572
 Ion Ratio Lower Upper
 65 100
 67 55.5 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN056769.D
 Acq: 16 Jul 2019 15:22

Tgt Ion: 114 Resp: 453580
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 39.4
 88 15.3 0.0 31.2

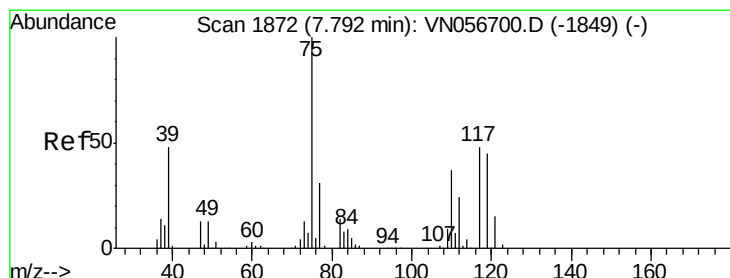
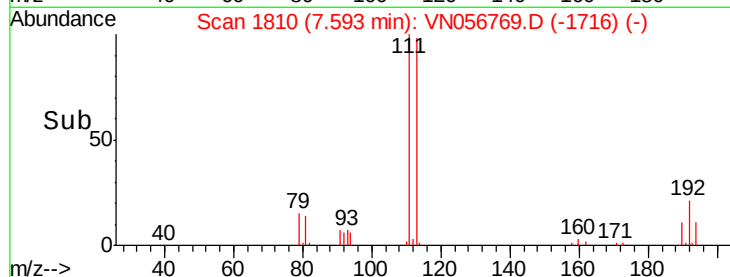
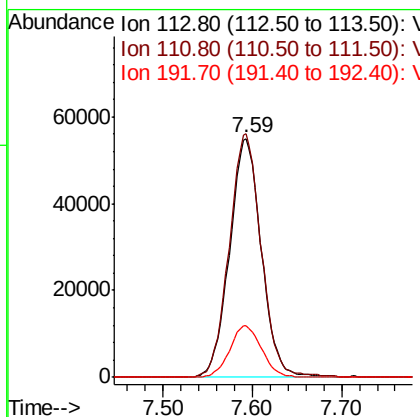
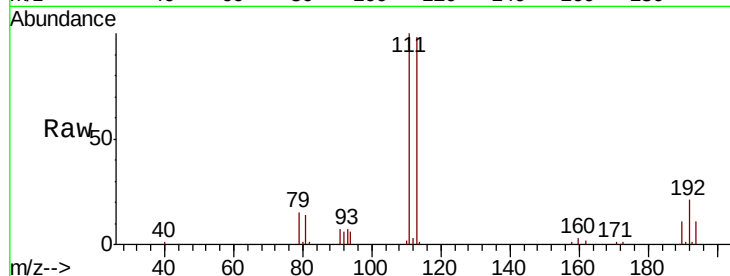




#35
 Dibromofluoromethane
 Concen: 48.094 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN056769.D
 Acq: 16 Jul 2019 15:22

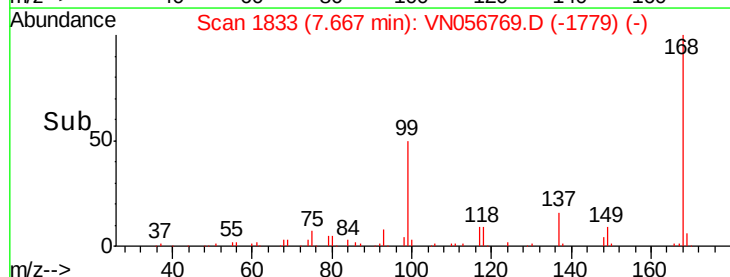
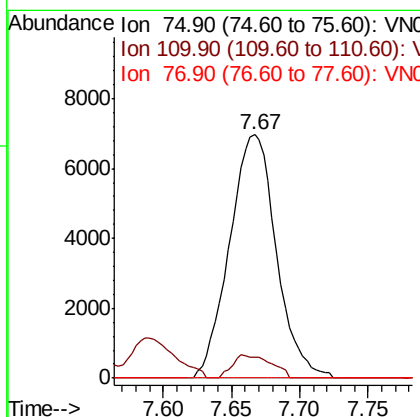
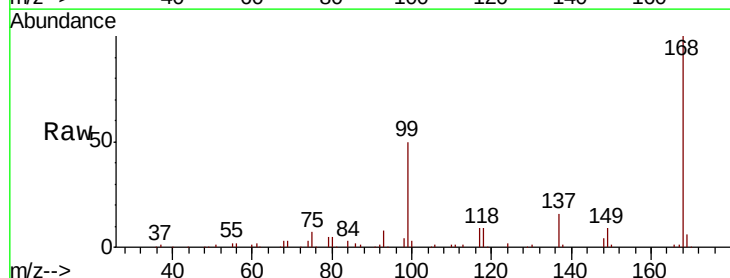
Instrument :
 MSVOA_N
 ClientSampled :
 MW-1

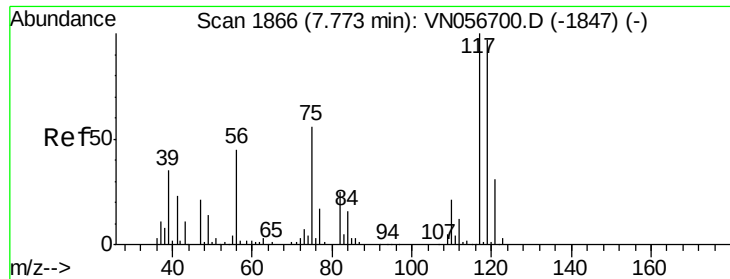
Tot Ion:113 Resp: 135757
 Ion Ratio Lower Upper
 113 100
 111 102.6 81.8 122.6
 192 21.6 17.5 26.3



#36
 1,1-Dichloropropene
 Concen: 3.953 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN056769.D
 Acq: 16 Jul 2019 15:22

Tgt Ion: 75 Resp: 16590
 Ion Ratio Lower Upper
 75 100
 110 7.8 18.4 55.4#
 77 0.0 24.6 36.8#

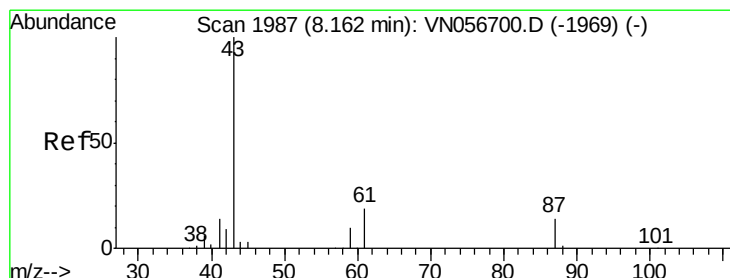
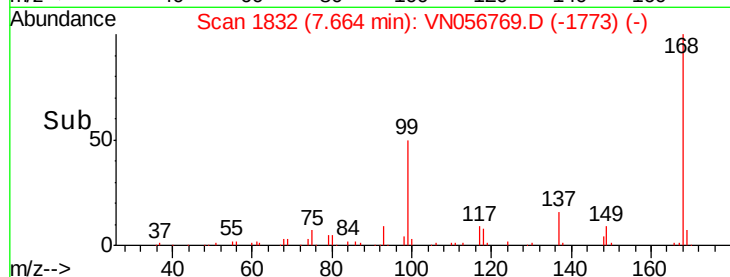
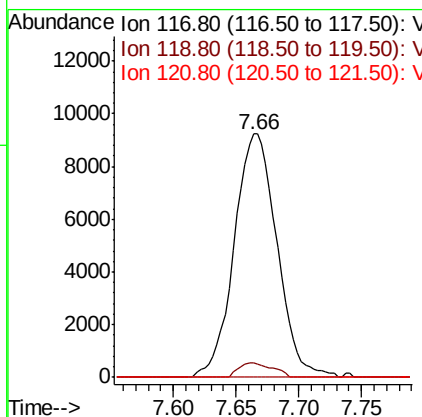
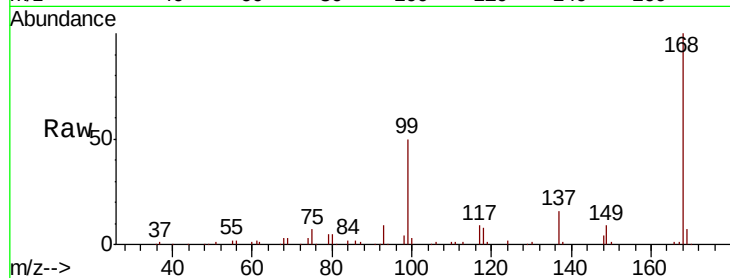




#38
Carbon Tetrachloride
Concen: 5.569 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN056769.D
Acq: 16 Jul 2019 15:22

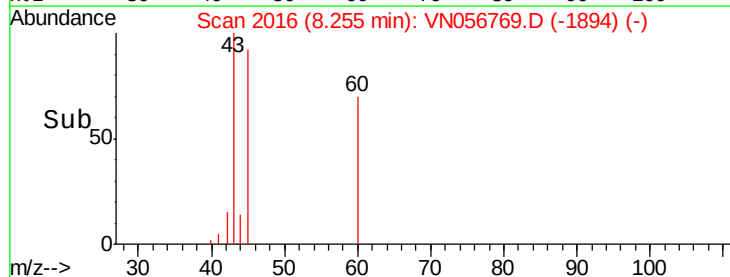
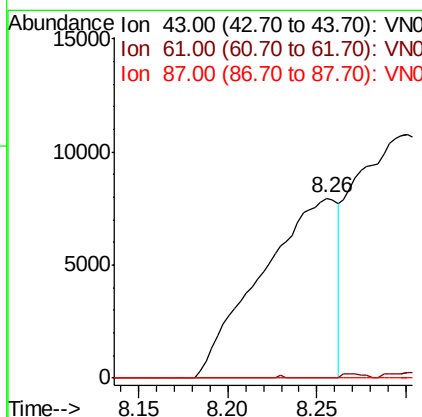
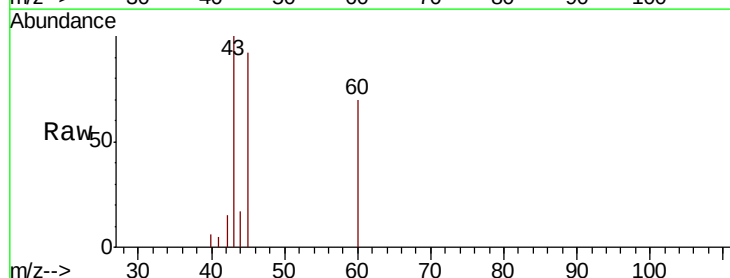
Instrument :
MSVOA_N
ClientSampled :
MW-1

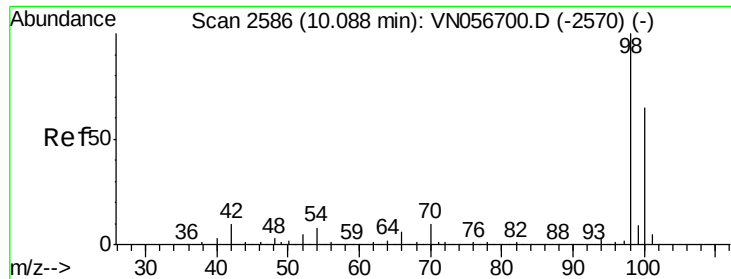
Tot Ion:117 Resp: 21920
Ion Ratio Lower Upper
117 100
119 6.0 77.5 116.3#
121 0.0 24.7 37.1#



#43
Isopropyl Acetate
Concen: 3.619 ug/l
RT: 8.26 min Scan# 2016
Delta R.T. 0.09 min
Lab File: VN056769.D
Acq: 16 Jul 2019 15:22

Tgt Ion: 43 Resp: 23537
Ion Ratio Lower Upper
43 100
61 0.7 22.3 33.5#
87 0.0 11.1 16.7#

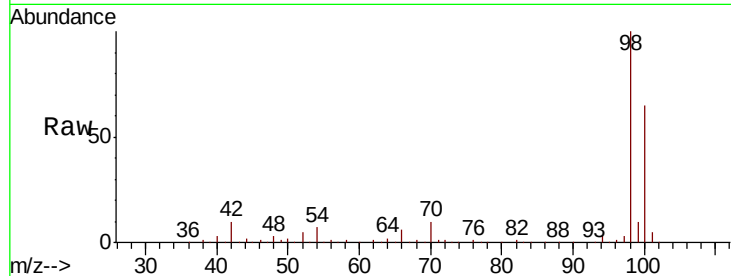




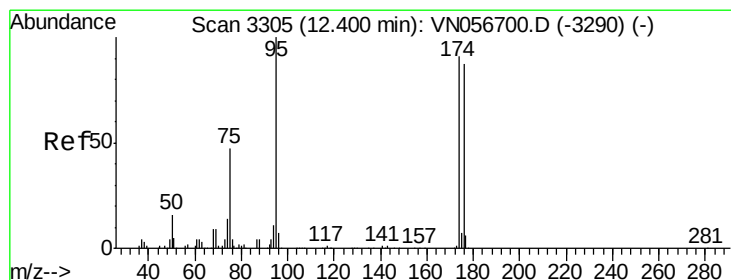
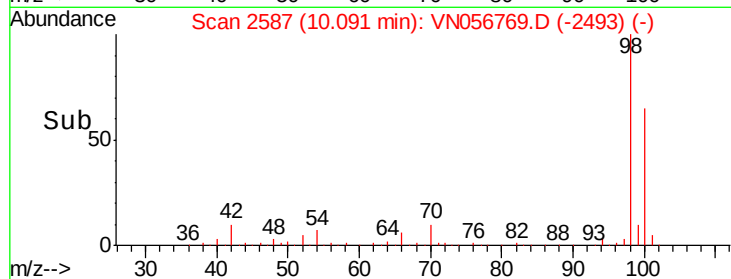
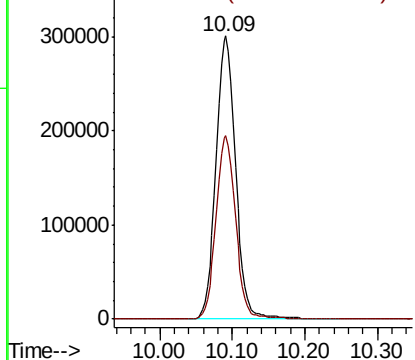
#50
Toluene-d8
Concen: 51.828 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN056769.D
Acq: 16 Jul 2019 15:22

Instrument :
MSVOA_N
ClientSampleId :
MW-1

Tot Ion: 98 Resp: 565034
Ion Ratio Lower Upper
98 100
100 64.8 52.0 78.0

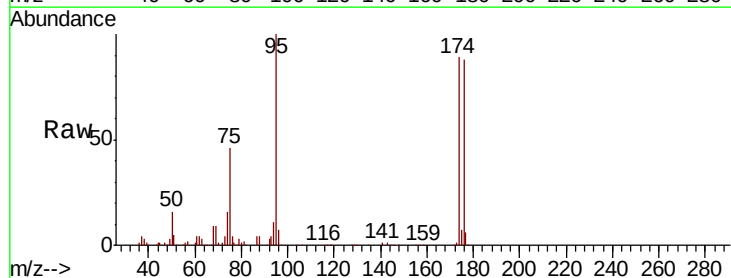


Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN

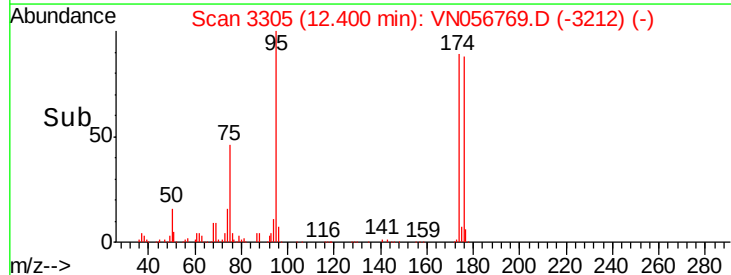
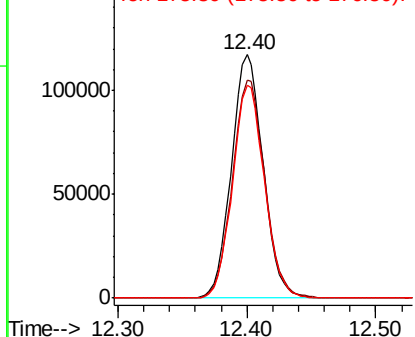


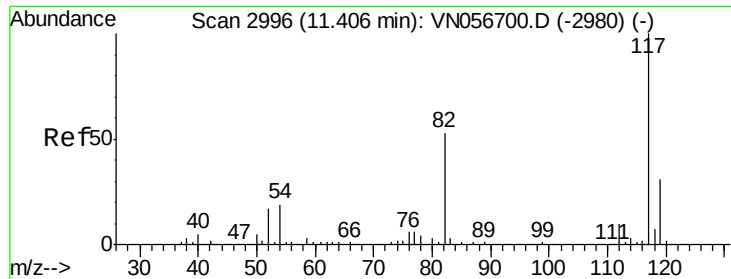
#62
4-Bromofluorobenzene
Concen: 54.231 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056769.D
Acq: 16 Jul 2019 15:22

Tgt Ion: 95 Resp: 199381
Ion Ratio Lower Upper
95 100
174 91.8 0.0 180.0
176 88.4 0.0 173.2



Abundance Ion 94.90 (94.60 to 95.60): VN0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

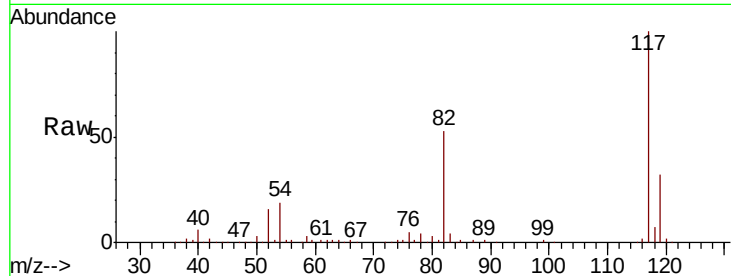




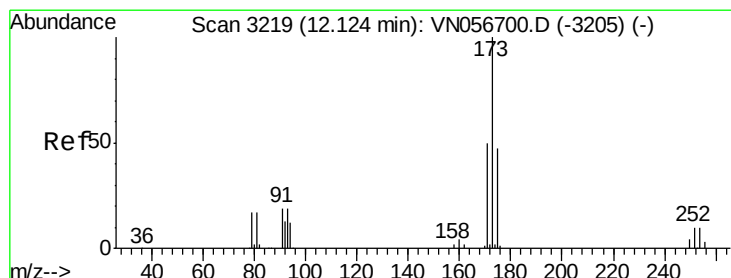
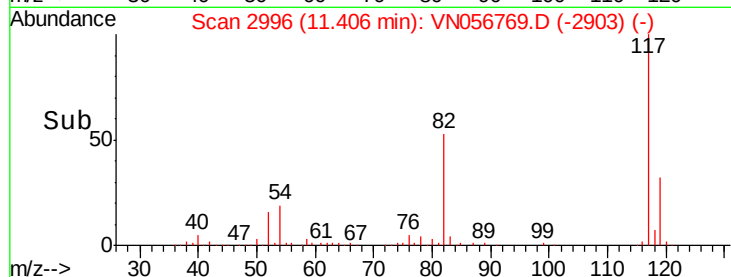
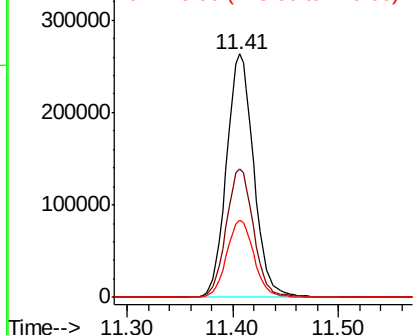
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.41 min Scan# 2996
 Delta R.T. -0.00 min
 Lab File: VN056769.D
 Acq: 16 Jul 2019 15:22

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-1

Tot Ion:117 Resp: 468939
 Ion Ratio Lower Upper
 117 100
 82 52.8 42.2 63.2
 119 31.6 25.2 37.8

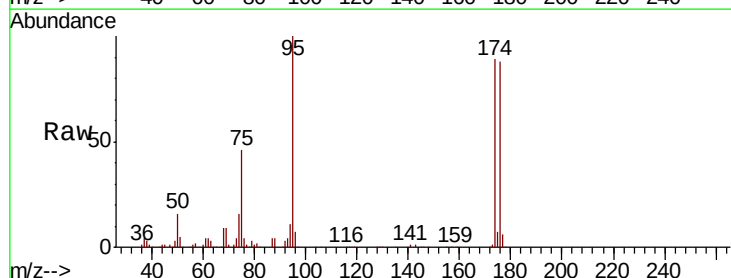


Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 82.00 (81.70 to 82.70): V
 Ion 118.90 (118.60 to 119.60): V

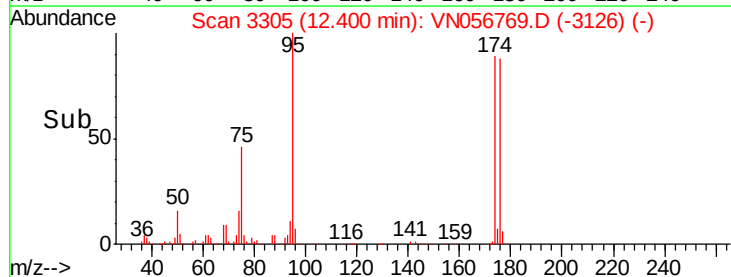
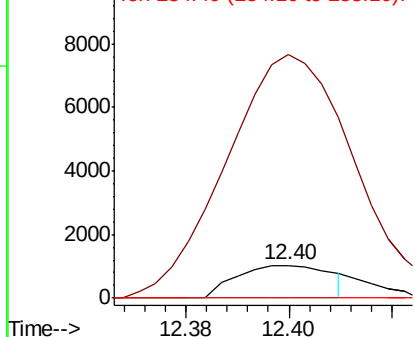


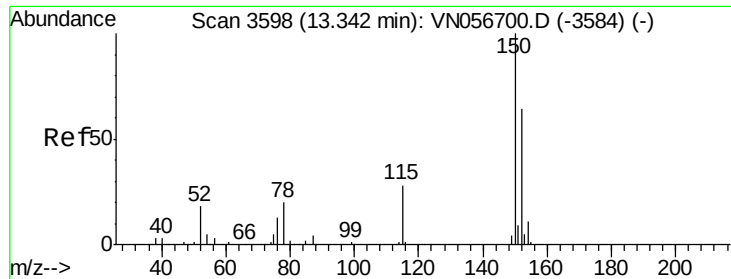
#71
 Bromoform
 Concen: 0.487 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.28 min
 Lab File: VN056769.D
 Acq: 16 Jul 2019 15:22

Tgt Ion:173 Resp: 1307
 Ion Ratio Lower Upper
 173 100
 175 836.6 23.8 71.4#
 254 0.0 0.0 0.0



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: VN056769.D

Acq: 16 Jul 2019 15:22

Instrument :

MSVOA_N

ClientSampled :

MW-1

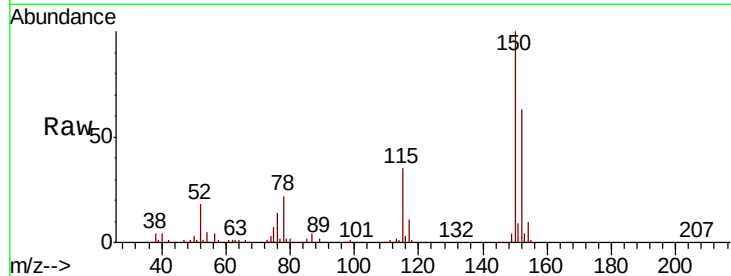
Tot Ion:152 Resp: 165584

Ion Ratio Lower Upper

152 100

115 56.0 28.2 84.7

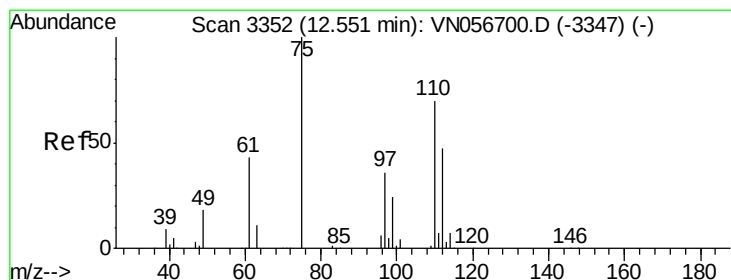
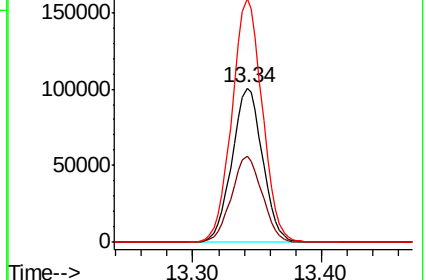
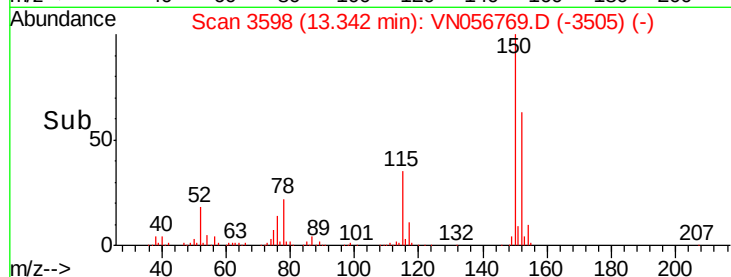
150 156.7 0.0 345.8



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: 25.976 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056769.D

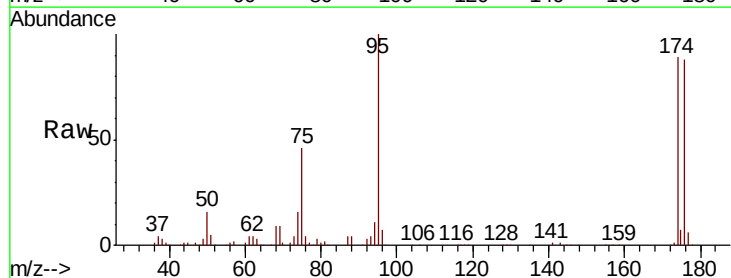
Acq: 16 Jul 2019 15:22

Tgt Ion: 75 Resp: 94073

Ion Ratio Lower Upper

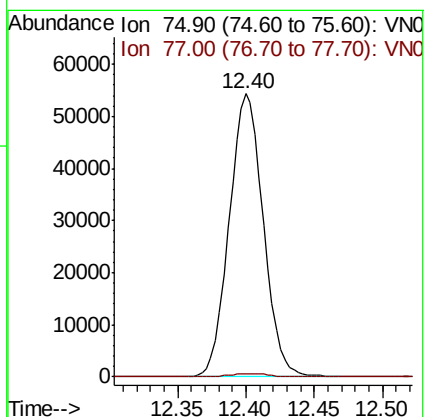
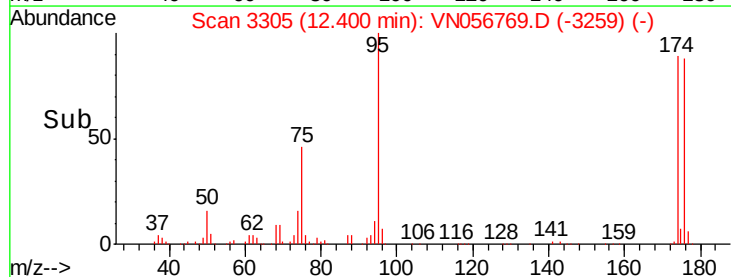
75 100

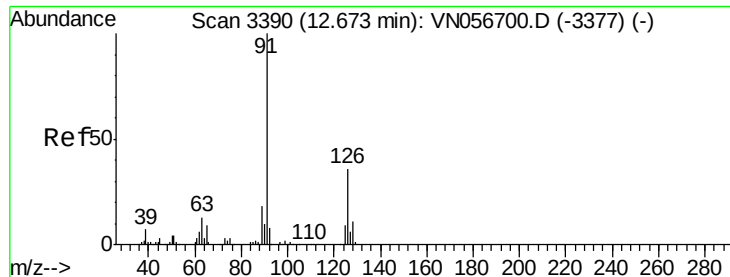
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. -0.27 min

Lab File: VN056769.D

Acq: 16 Jul 2019 15:22

Instrument :

MSVOA_N

ClientSampled :

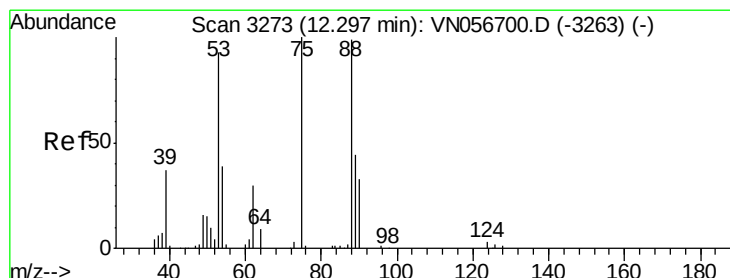
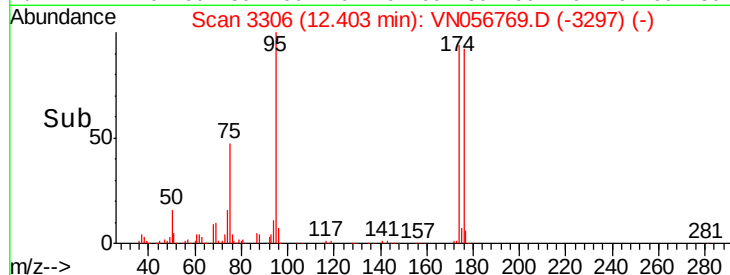
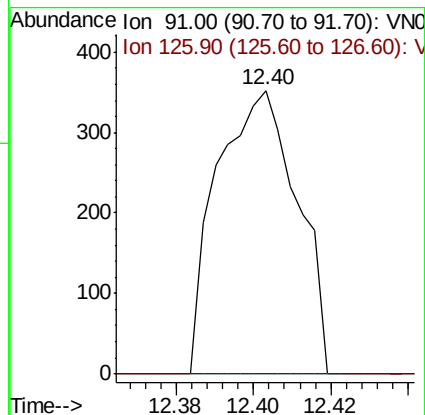
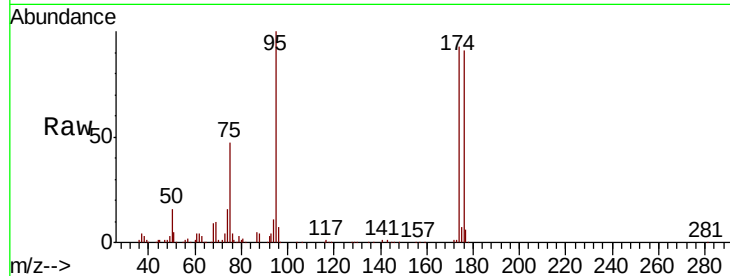
MW-1

Tot Ion: 91 Resp: 507

Ion Ratio Lower Upper

91 100

126 0.0 17.9 53.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 80.222 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056769.D

Acq: 16 Jul 2019 15:22

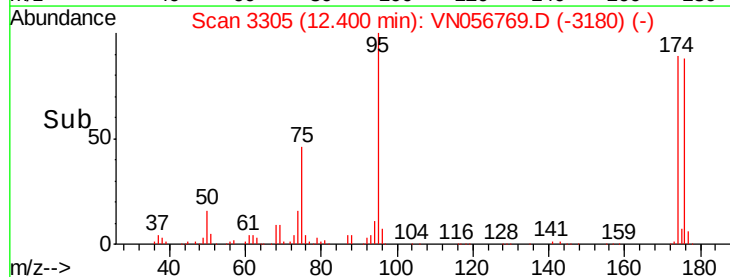
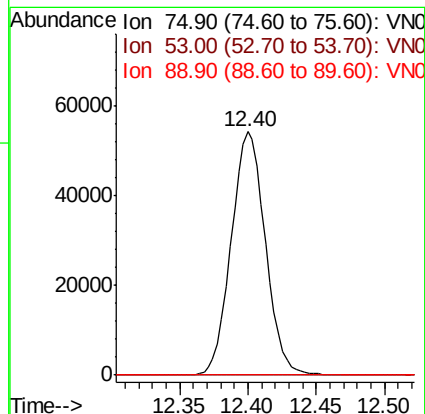
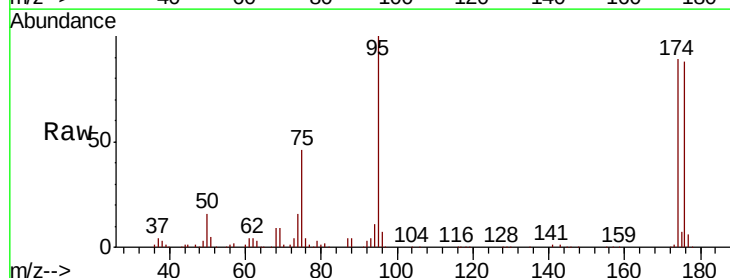
Tgt Ion: 75 Resp: 94073

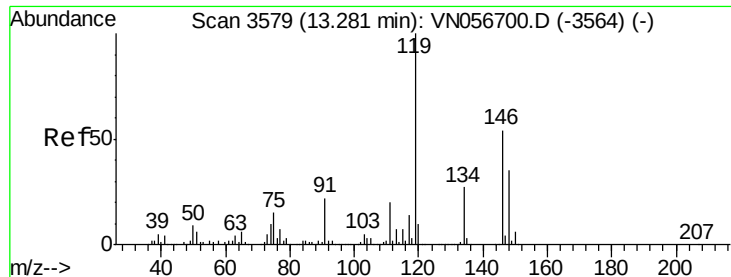
Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

89 0.0 36.2 54.2#





#87

1,3-Dichlorobenzene

Concen: 0.632 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.00 min

Lab File: VN056769.D

Acq: 16 Jul 2019 15:22

Instrument :

MSVOA_N

ClientSampleId :

MW-1

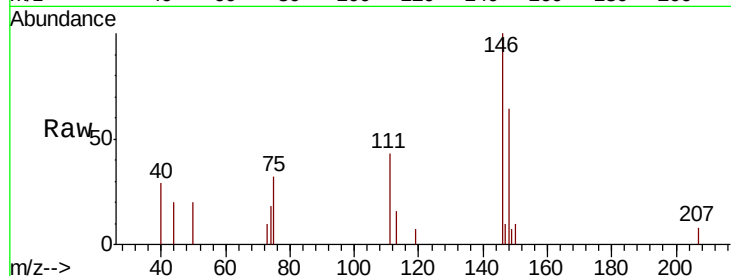
Tot Ion:146 Resp: 3618

Ion Ratio Lower Upper

146 100

111 40.5 18.8 56.3

148 66.4 32.3 96.8

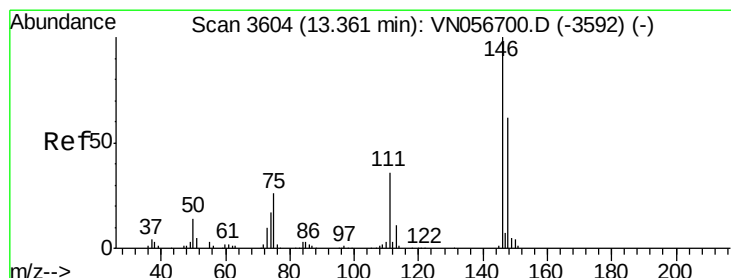
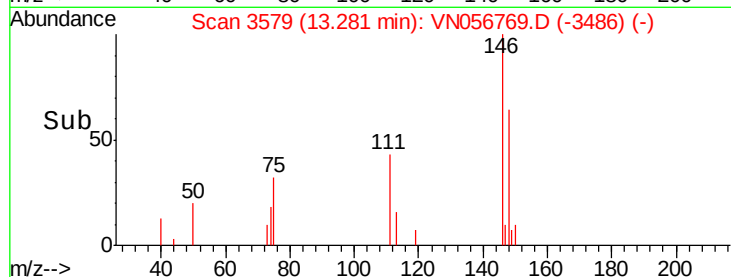
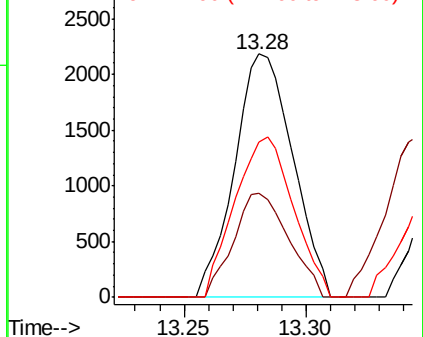


Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 0.650 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.08 min

Lab File: VN056769.D

Acq: 16 Jul 2019 15:22

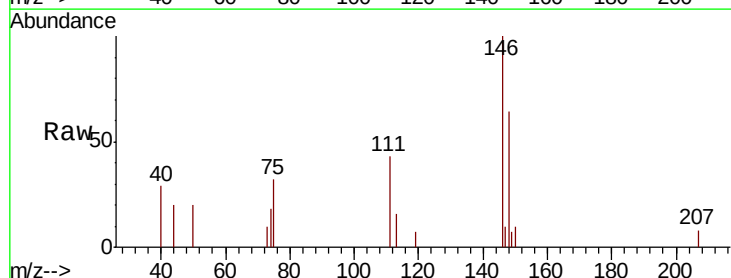
Tgt Ion:146 Resp: 3618

Ion Ratio Lower Upper

146 100

111 40.5 18.6 55.8

148 66.4 31.9 95.7

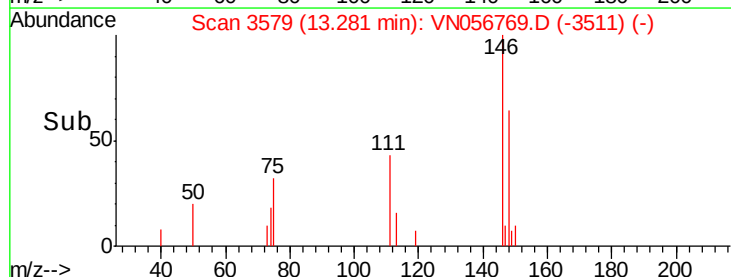
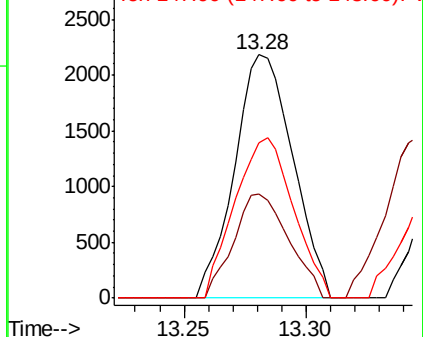


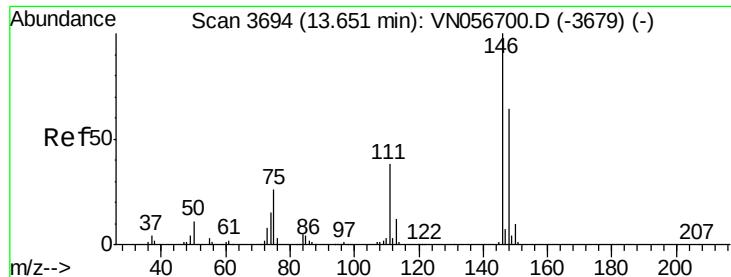
Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#91

1,2-Dichlorobenzene

Concen: 1.805 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VN056769.D

Acq: 16 Jul 2019 15:22

Instrument :

MSVOA_N

ClientSampled :

MW-1

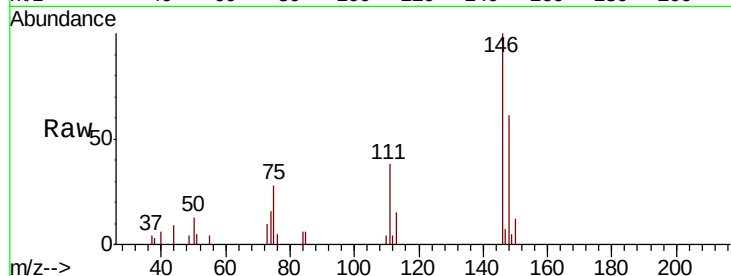
Tot Ion:146 Resp: 10566

Ion Ratio Lower Upper

146 100

111 39.4 19.1 57.1

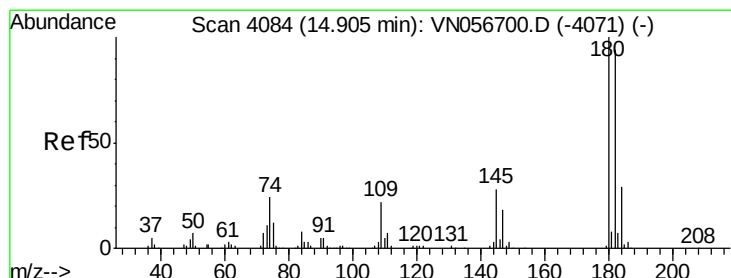
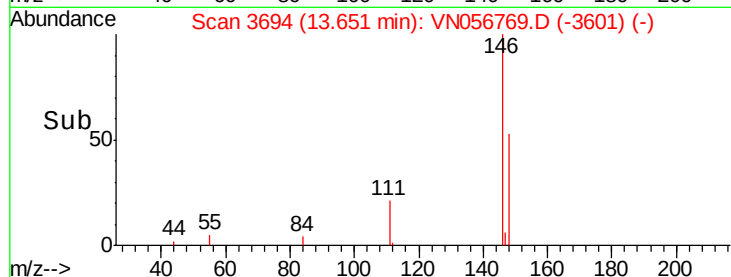
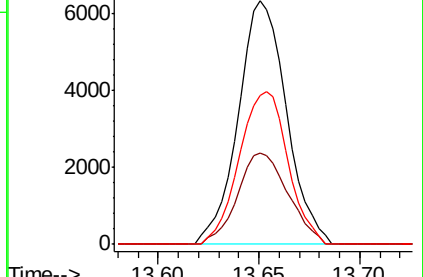
148 63.3 31.7 95.1



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#93

1,2,4-Trichlorobenzene

Concen: 3.708 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.01 min

Lab File: VN056769.D

Acq: 16 Jul 2019 15:22

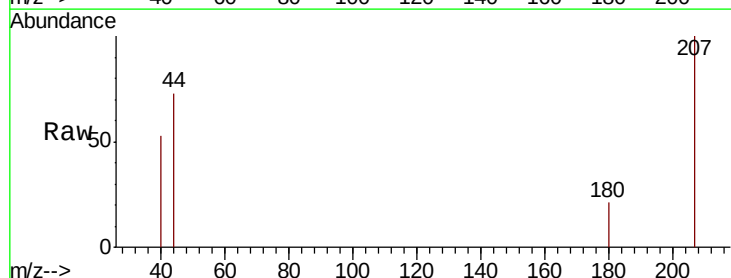
Tgt Ion:180 Resp: 59

Ion Ratio Lower Upper

180 100

182 230.5 47.2 141.6#

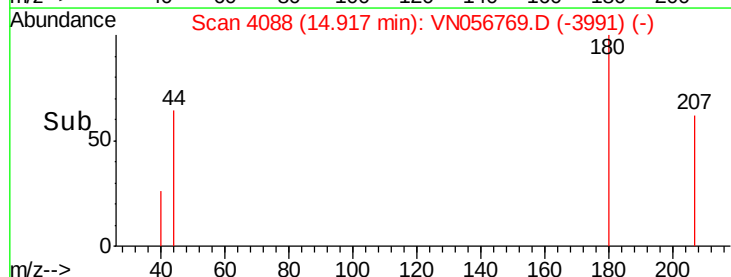
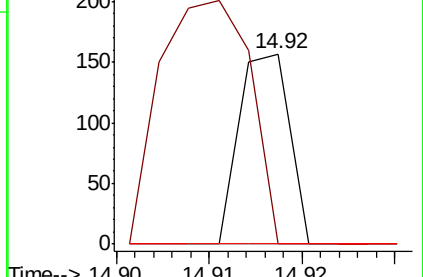
145 0.0 14.2 42.8#

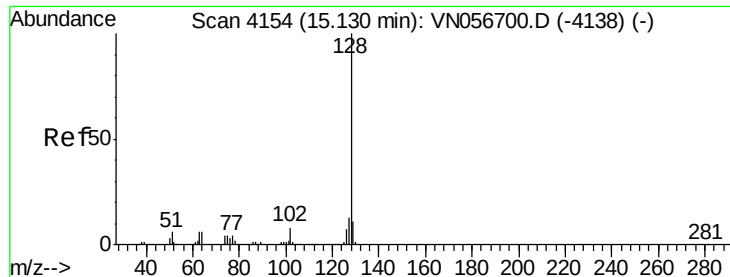


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 4.556 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056769.D

Acq: 16 Jul 2019 15:22

Instrument :

MSVOA_N

ClientSampleId :

MW-1

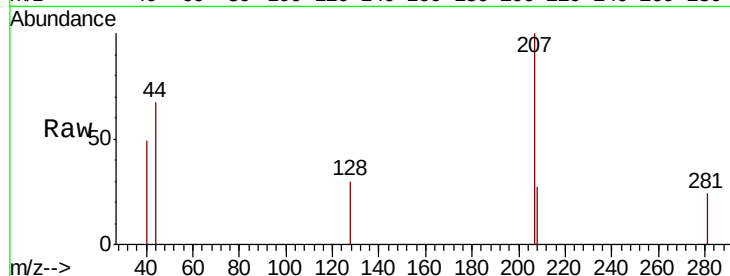
Tot Ion:128 Resp: 300

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 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

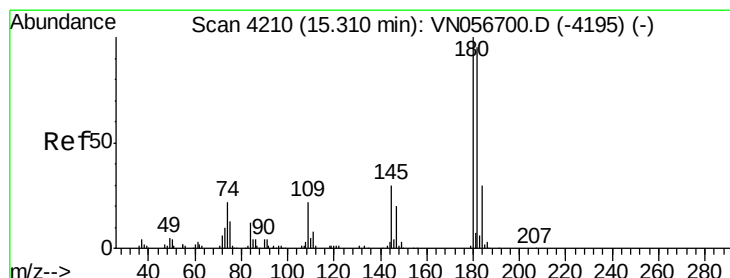
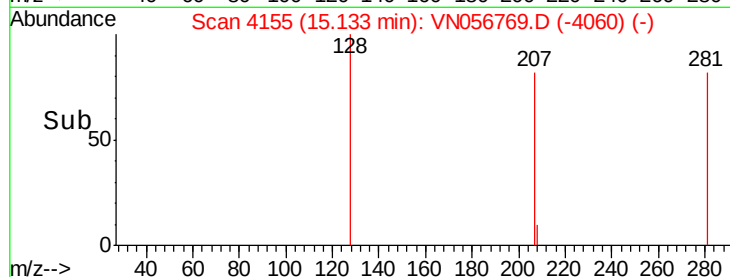
15.13

200

100

0

Time--> 15.10 15.12 15.14 15.16



#96

1,2,3-Trichlorobenzene

Concen: 3.352 ug/l

RT: 15.31 min Scan# 4209

Delta R.T. -0.00 min

Lab File: VN056769.D

Acq: 16 Jul 2019 15:22

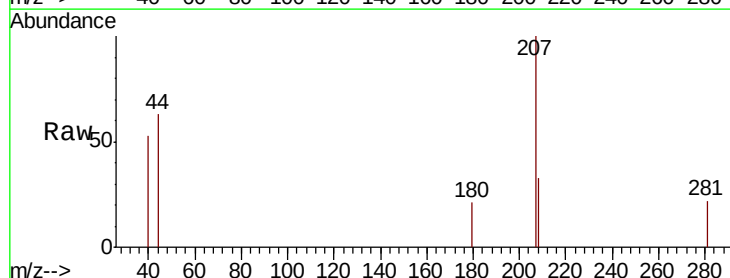
Tgt Ion:180 Resp: 99

Ion Ratio Lower Upper

180 100

182 0.0 47.1 141.3#

145 0.0 15.0 45.1#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

15.31

200

150

100

50

0

Time--> 15.30 15.31 15.32

