

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030219\
 Data File : VN054048.D
 Acq On : 1 Mar 2019 23:42
 Operator : JC/SP
 Sample : K1675-40
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 Z-3-14-A

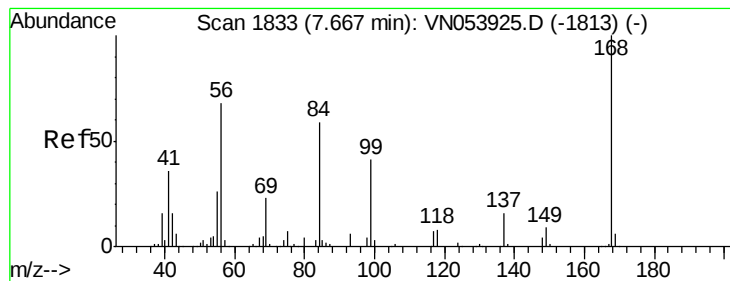
Quant Time: Mar 02 04:49:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 28 04:05:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	573228	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1090464	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1061696	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	380619	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	388967	57.89	ug/l	0.00
Spiked Amount						
			Recovery	=	115.78%	
35) Dibromofluoromethane	7.59	113	345173	48.95	ug/l	0.00
Spiked Amount						
			Recovery	=	97.90%	
50) Toluene-d8	10.09	98	1375959	52.42	ug/l	0.00
Spiked Amount						
			Recovery	=	104.84%	
62) 4-Bromofluorobenzene	12.40	95	452104	51.69	ug/l	0.00
Spiked Amount						
			Recovery	=	103.38%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.42	74	1664	0.474	ug/l #	22
16) Acetone	3.82	43	17373	Below Cal	#	87
18) Methyl Acetate	4.33	43	5335	1.135	ug/l #	66
20) Methylene Chloride	4.56	84	134816	20.272	ug/l	91
25) 2-Butanone	6.85	43	1780	0.675	ug/l	99
29) Tetrahydrofuran	7.21	42	964	0.549	ug/l #	45
30) Chloroform	7.38	83	2666	0.234	ug/l	97
31) Cyclohexane	7.66	56	10385	0.561	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	40212	3.965	ug/l #	42
38) Carbon Tetrachloride	7.67	117	51028	4.838	ug/l #	17
43) Isopropyl Acetate	8.17	43	32820	2.684	ug/l #	91
45) 1,2-Dichloropropane	9.26	63	1963	0.234	ug/l #	44
48) Methyl methacrylate	9.18	41	10333	1.837	ug/l #	23
49) 1,4-Dioxane	9.27	88	67	0.880	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	9472	1.508	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	65701	5.570	ug/l #	69
56) Ethyl methacrylate	10.55	69	1482	2.113	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	12196	1.054	ug/l #	43
59) 2-Hexanone	10.76	43	187541	45.898	ug/l #	48
71) Bromoform	12.40	173	3177	0.566	ug/l #	1
74) N-amyl acetate	11.88	43	17681	2.277	ug/l #	48
76) 1,2,3-Trichloropropane	12.40	75	221613	36.296	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	6307	0.260	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	221613	114.716	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	5387	0.222	ug/l	98
95) Naphthalene	15.13	128	2341	3.357	ug/l #	84

(#) = 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: VN054048.D

Acq: 1 Mar 2019 23:42

Instrument :

MSVOA_N

ClientSampled :

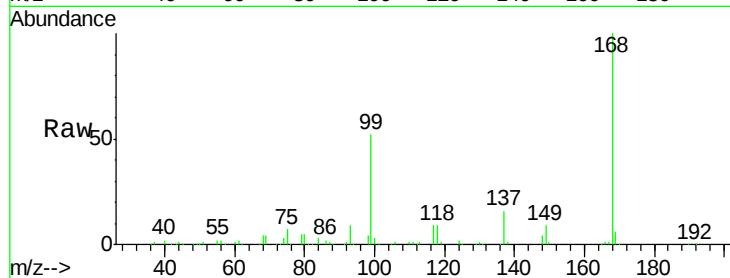
Z-3-14-A

Tot Ion:168 Resp: 573228

Ion Ratio Lower Upper

168 100

99 52.1 36.9 55.3



Abundance Ion 167.90 (167.60 to 168.60): VN054048.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN054048.D (-1740) (-)

7.67

250000

200000

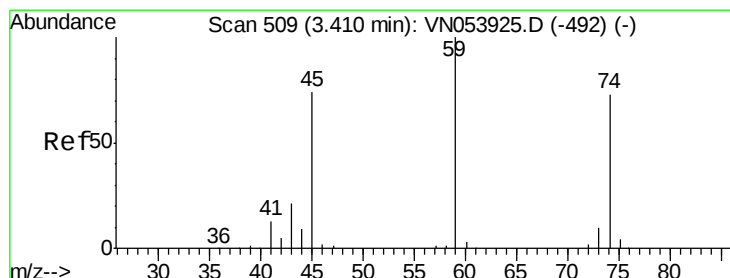
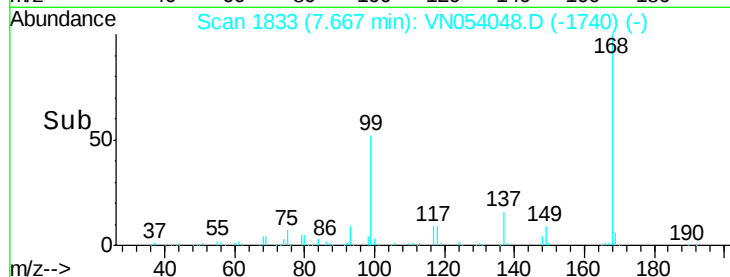
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 0.474 ug/l

RT: 3.42 min Scan# 511

Delta R.T. 0.01 min

Lab File: VN054048.D

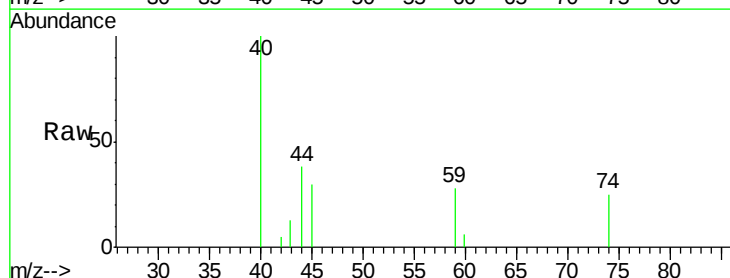
Acq: 1 Mar 2019 23:42

Tgt Ion: 74 Resp: 1664

Ion Ratio Lower Upper

74 100

45 168.9 46.9 140.6#



Abundance Ion 74.00 (73.70 to 74.70): VN054048.D (-416) (-)

Ion 45.00 (44.70 to 45.70): VN054048.D (-416) (-)

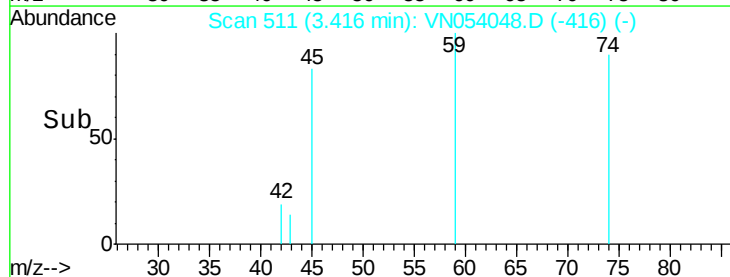
3.42

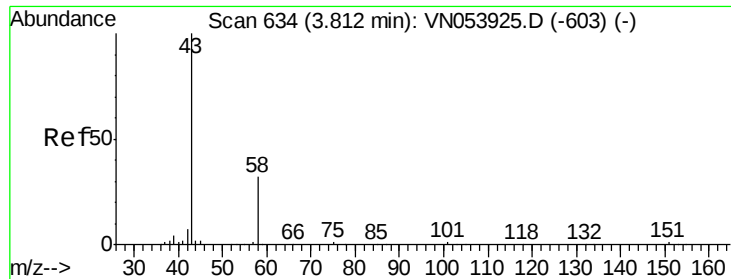
1000

500

0

Time-->





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN054048.D

Acq: 1 Mar 2019 23:42

Instrument :

MSVOA_N

ClientSampleId :

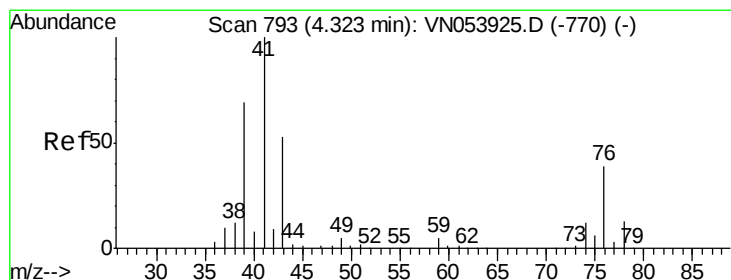
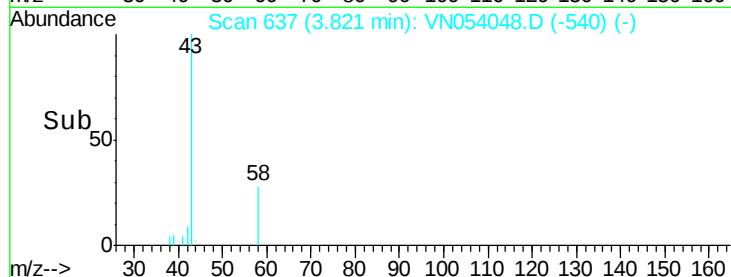
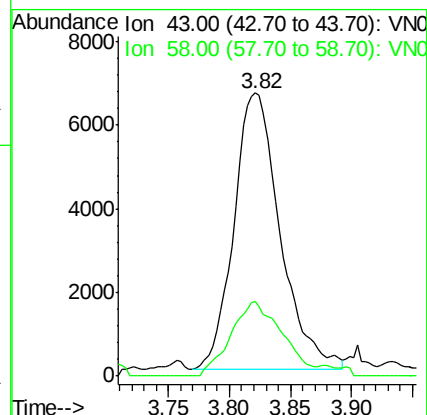
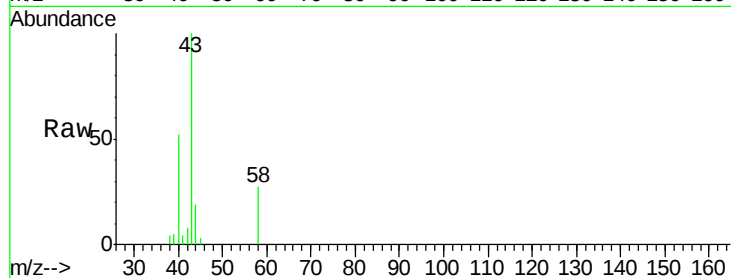
Z-3-14-A

Tot Ion: 43 Resp: 17373

Ion Ratio Lower Upper

43 100

58 27.2 27.6 41.4#



#18

Methyl Acetate

Concen: 1.135 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.01 min

Lab File: VN054048.D

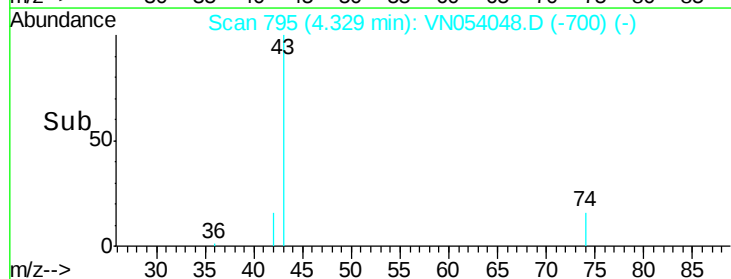
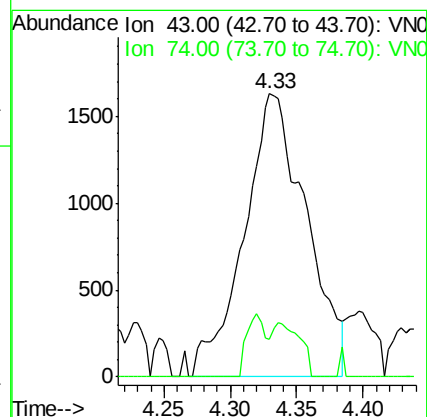
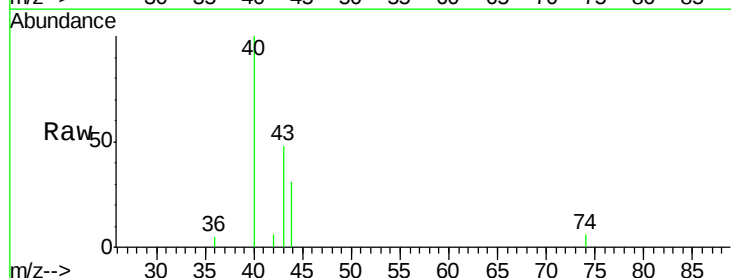
Acq: 1 Mar 2019 23:42

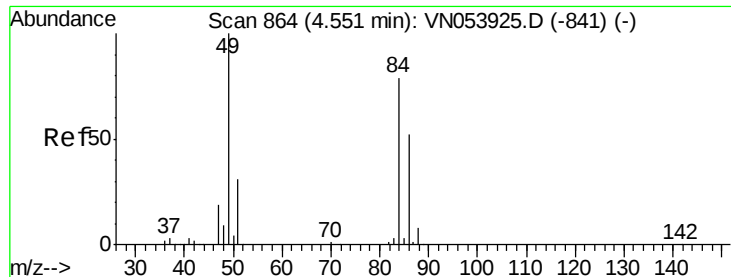
Tgt Ion: 43 Resp: 5335

Ion Ratio Lower Upper

43 100

74 8.3 20.5 30.7#

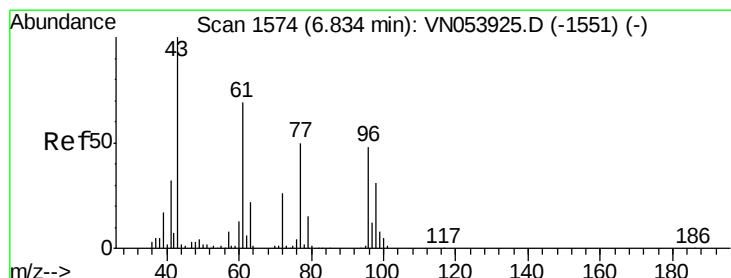
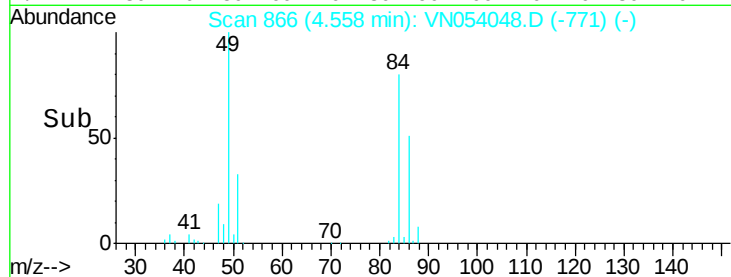
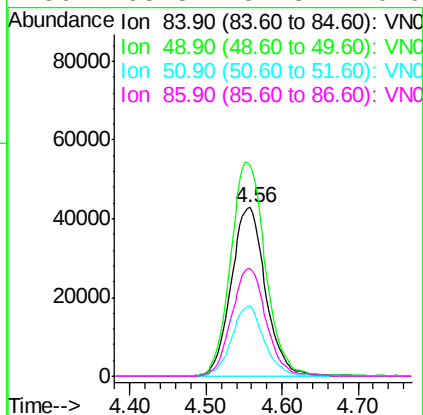
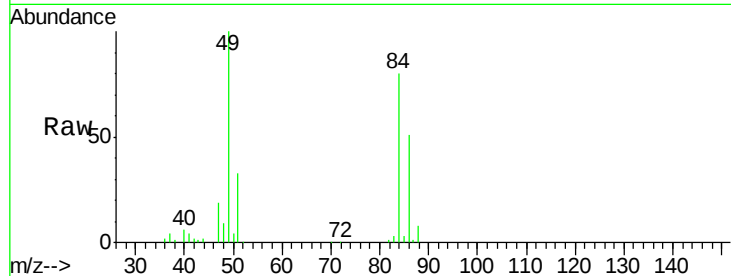




#20
Methvlene Chloride
Concen: 20.272 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN054048.D
Acq: 1 Mar 2019 23:42

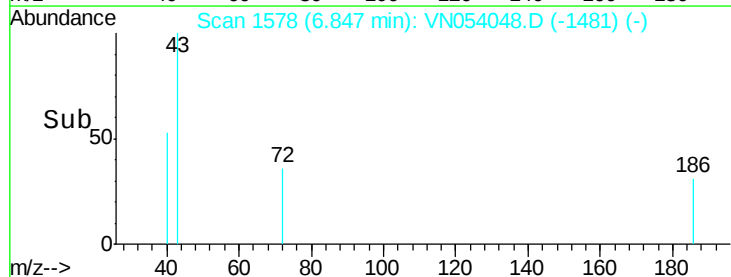
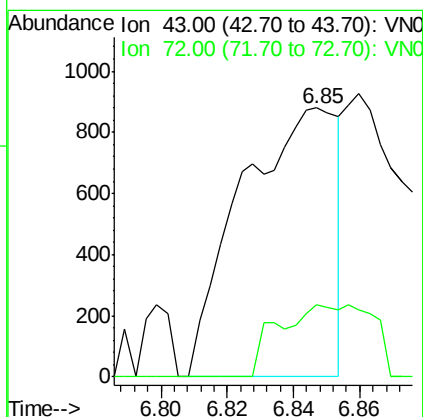
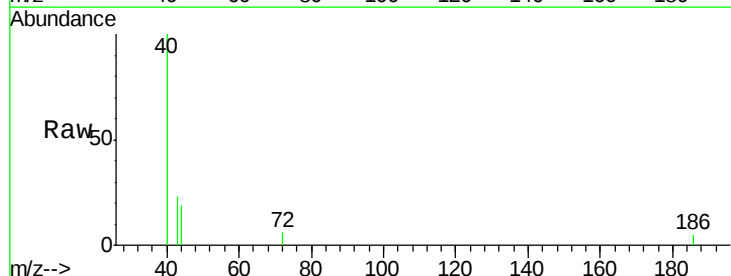
Instrument :
MSVOA_N
ClientSampled :
Z-3-14-A

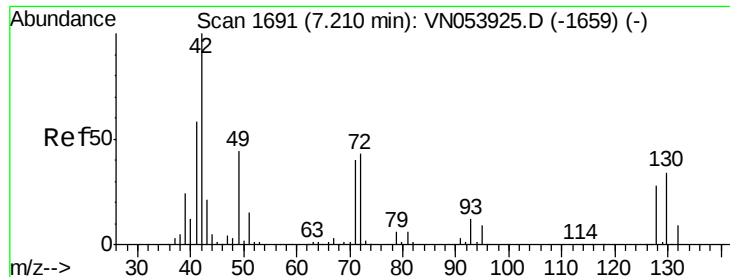
Tot Ion: 84 Resp: 134816
Ion Ratio Lower Upper
84 100
49 125.3 89.7 134.5
51 41.5 27.8 41.8
86 63.8 51.3 76.9



#25
2-Butanone
Concen: 0.675 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN054048.D
Acq: 1 Mar 2019 23:42

Tgt Ion: 43 Resp: 1780
Ion Ratio Lower Upper
43 100
72 27.0 22.1 33.1





#29

Tetrahydrofuran

Concen: 0.549 ug/l

RT: 7.21 min Scan# 1690

Delta R.T. -0.00 min

Lab File: VN054048.D

Acq: 1 Mar 2019 23:42

Instrument :

MSVOA_N

ClientSampled :

Z-3-14-A

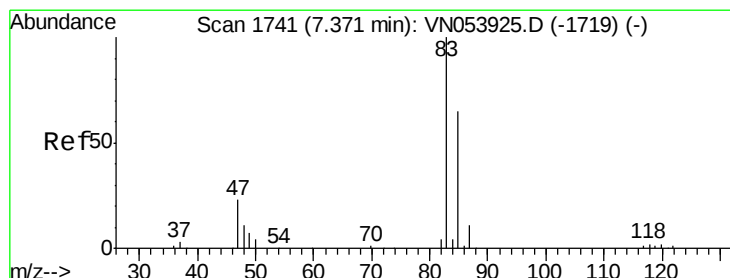
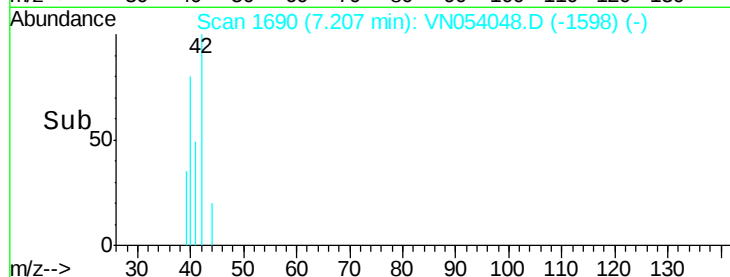
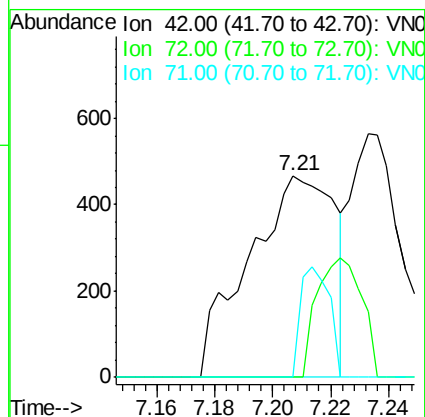
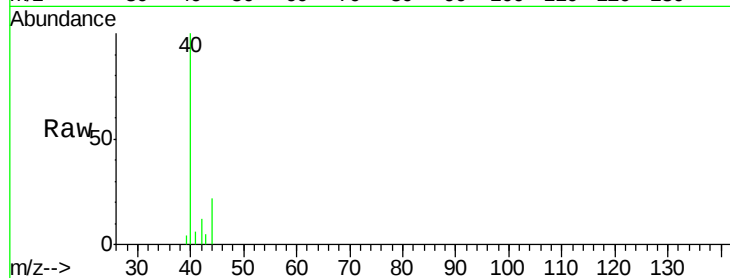
Tot Ion: 42 Resp: 964

Ion Ratio Lower Upper

42 100

72 0.0 36.9 55.3#

71 18.0 34.6 52.0#



#30

Chloroform

Concen: 0.234 ug/l

RT: 7.38 min Scan# 1744

Delta R.T. 0.01 min

Lab File: VN054048.D

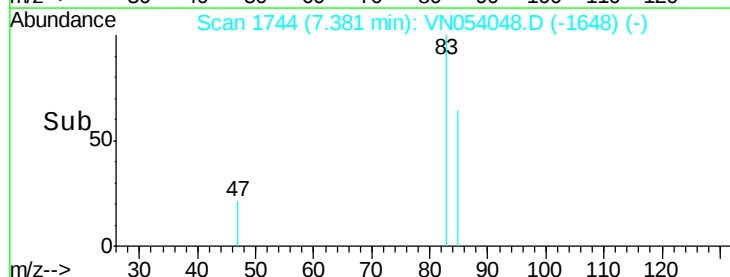
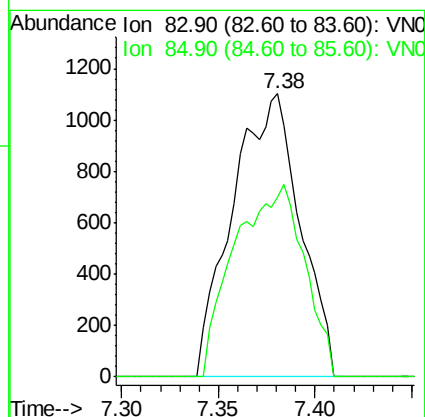
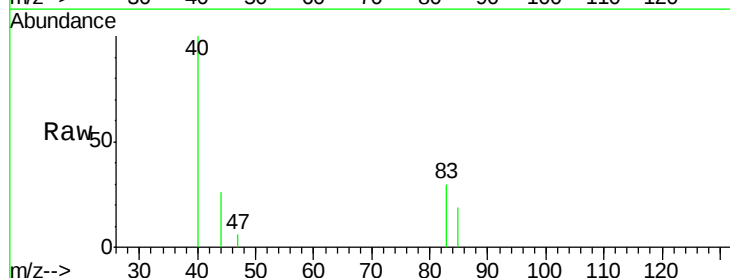
Acq: 1 Mar 2019 23:42

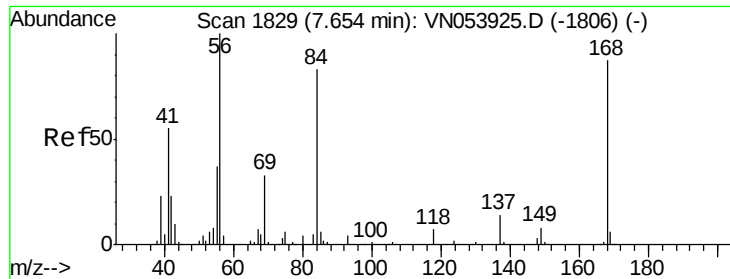
Tgt Ion: 83 Resp: 2666

Ion Ratio Lower Upper

83 100

85 63.6 52.6 78.8

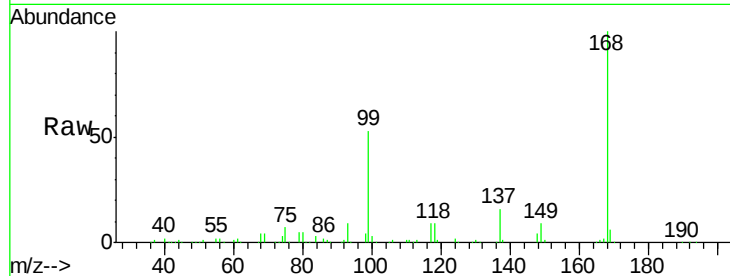




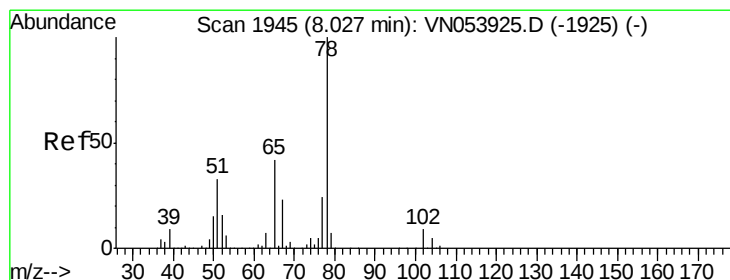
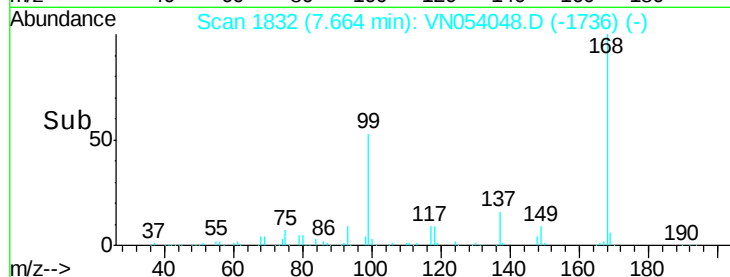
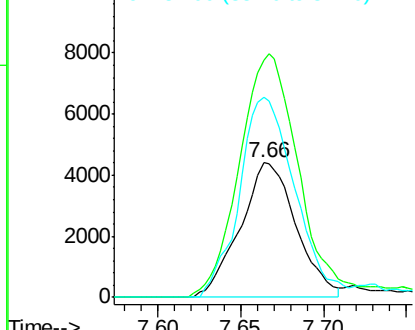
#31
Cyclohexane
Concen: 0.561 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054048.D
Acq: 1 Mar 2019 23:42

Instrument :
MSVOA_N
ClientSampled :
Z-3-14-A

Tot Ion: 56 Resp: 10385
Ion Ratio Lower Upper
56 100
69 176.2 26.0 39.0#
84 148.8 69.1 103.7#

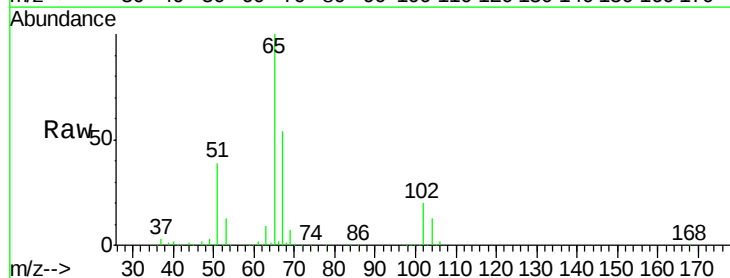


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

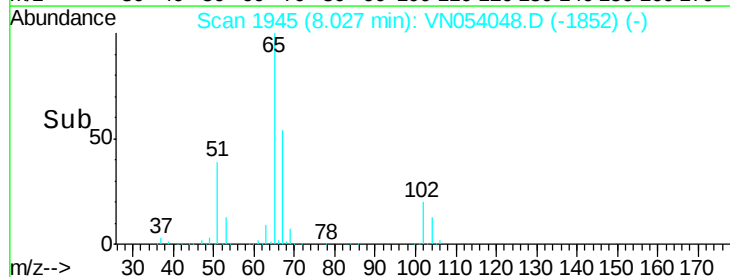
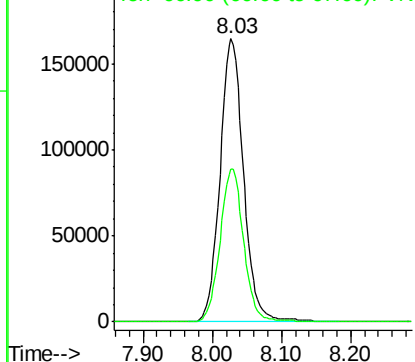


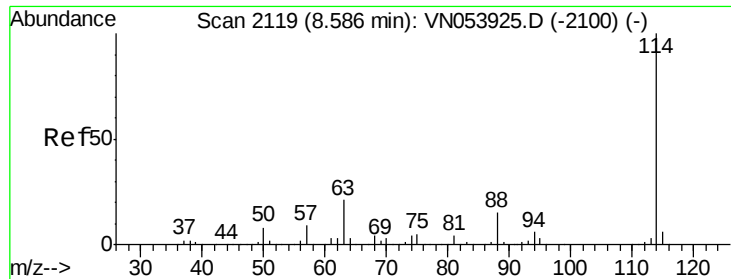
#33
1,2-Dichloroethane-d4
Concen: 57.886 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN054048.D
Acq: 1 Mar 2019 23:42

Tgt Ion: 65 Resp: 388967
Ion Ratio Lower Upper
65 100
67 54.4 0.0 111.8



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

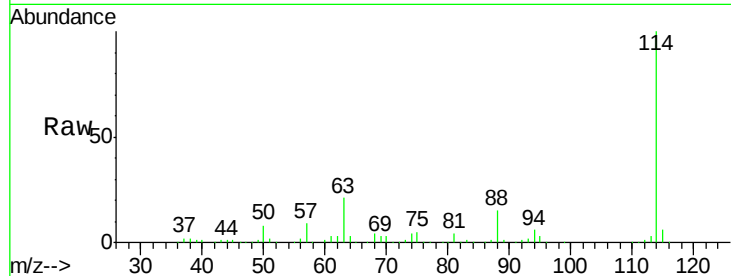




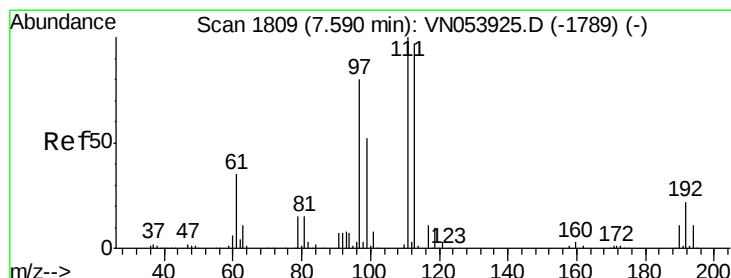
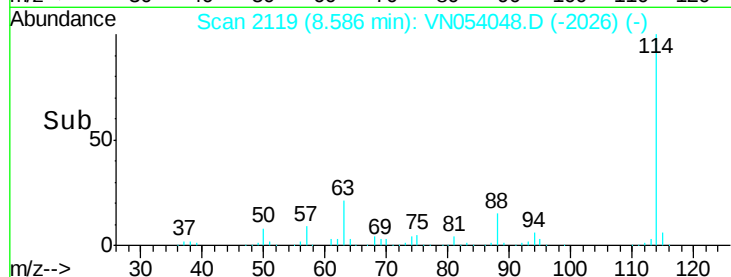
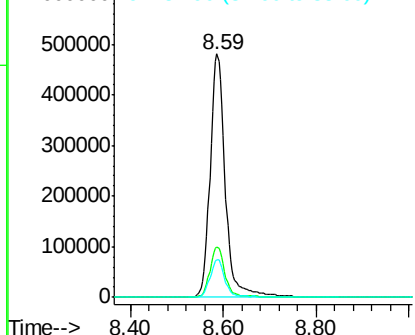
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054048.D
 Acq: 1 Mar 2019 23:42

Instrument :
 MSVOA_N
 ClientSampleId :
 Z-3-14-A

Tot Ion:114 Resp: 1090464
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 37.4
 88 15.5 0.0 30.4

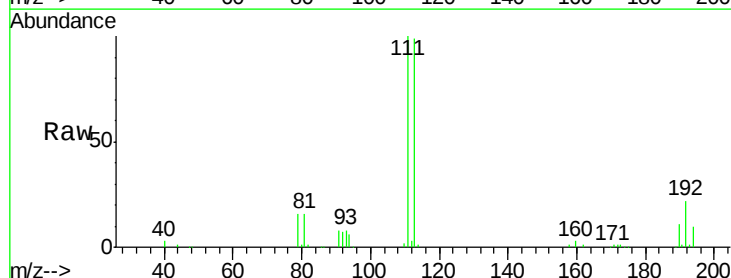


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

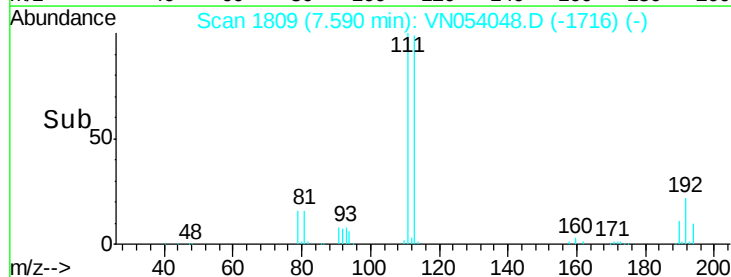
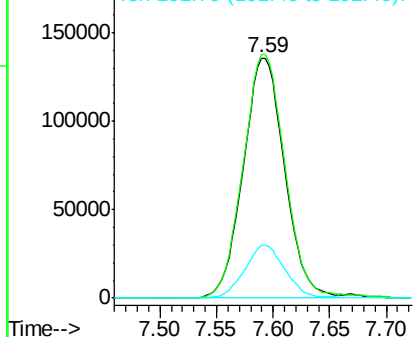


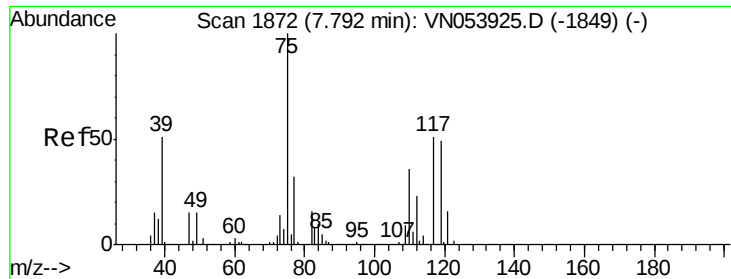
#35
 Dibromofluoromethane
 Concen: 48.950 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054048.D
 Acq: 1 Mar 2019 23:42

Tgt Ion:113 Resp: 345173
 Ion Ratio Lower Upper
 113 100
 111 103.5 81.1 121.7
 192 21.5 18.8 28.2



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: 3.965 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN054048.D

Acq: 1 Mar 2019 23:42

Instrument :

MSVOA_N

ClientSampled :

Z-3-14-A

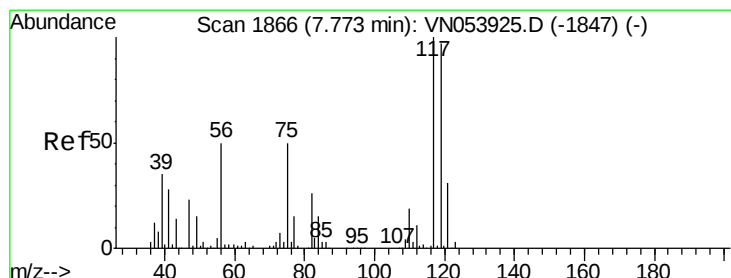
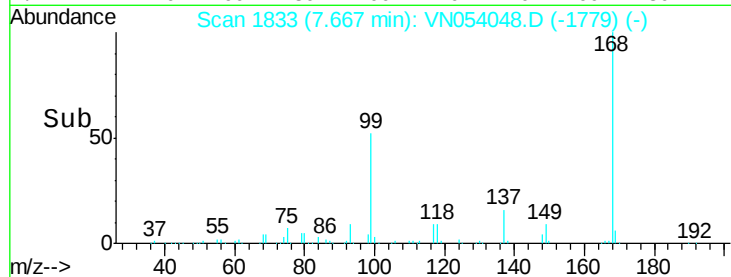
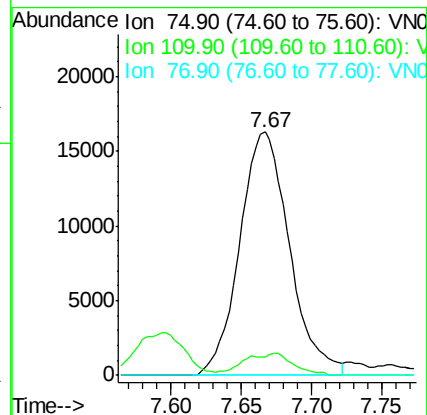
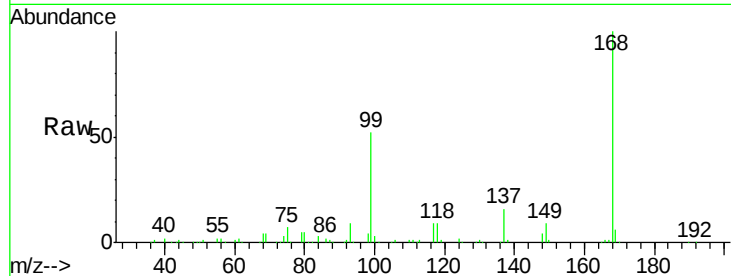
Tot Ion: 75 Resp: 40212

Ion Ratio Lower Upper

75 100

110 2.8 19.0 57.0#

77 0.0 25.4 38.0#



#38

Carbon Tetrachloride

Concen: 4.838 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN054048.D

Acq: 1 Mar 2019 23:42

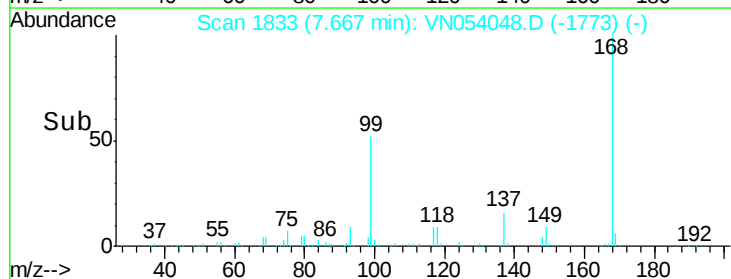
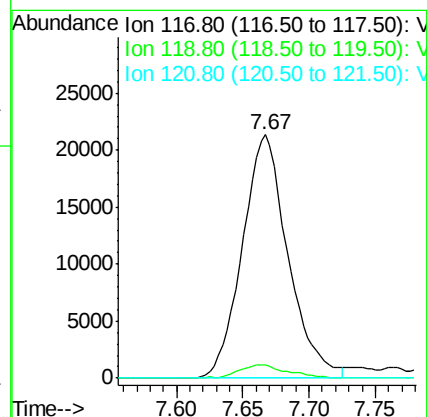
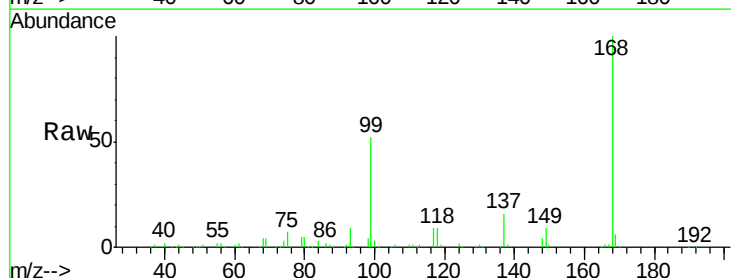
Tgt Ion: 117 Resp: 51028

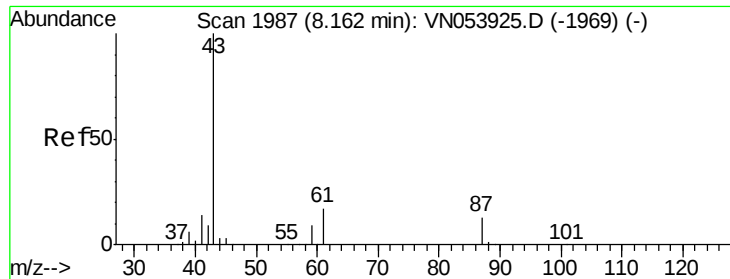
Ion Ratio Lower Upper

117 100

119 5.5 76.2 114.2#

121 0.0 24.6 36.8#





#43

Isopropyl Acetate

Concen: 2.684 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN054048.D

Acq: 1 Mar 2019 23:42

Instrument :

MSVOA_N

ClientSampleId :

Z-3-14-A

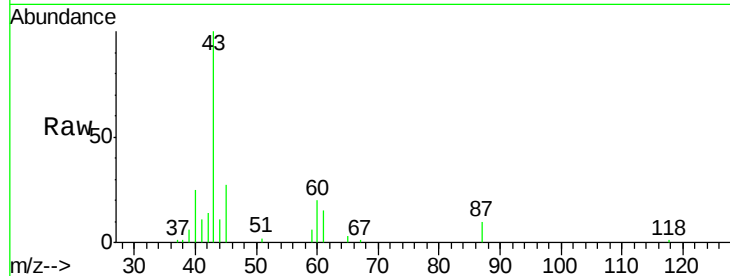
Tot Ion: 43 Resp: 32820

Ion Ratio Lower Upper

43 100

61 17.9 17.4 26.0

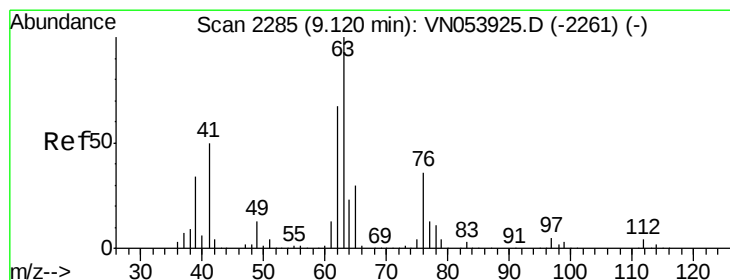
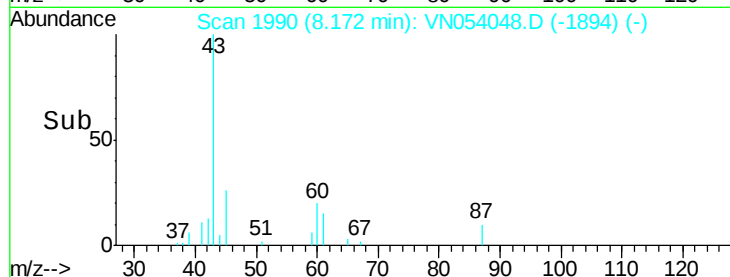
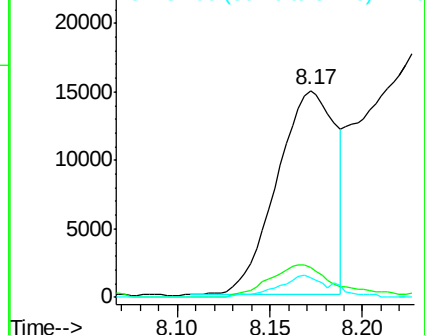
87 10.0 11.5 17.3#



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: 0.234 ug/l

RT: 9.26 min Scan# 2330

Delta R.T. 0.14 min

Lab File: VN054048.D

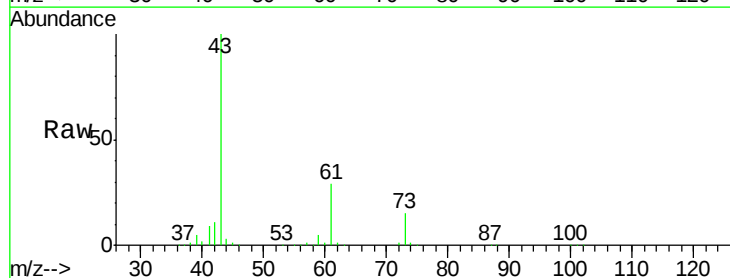
Acq: 1 Mar 2019 23:42

Tgt Ion: 63 Resp: 1963

Ion Ratio Lower Upper

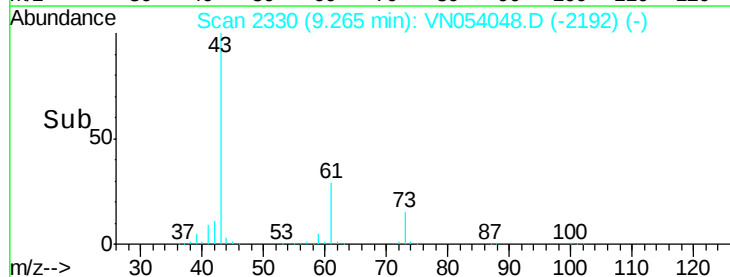
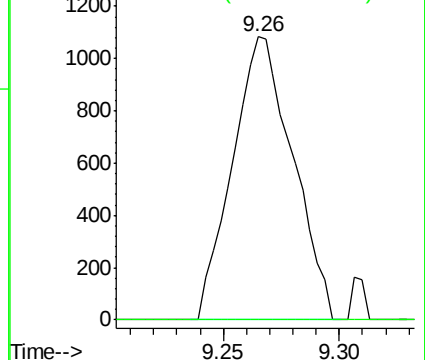
63 100

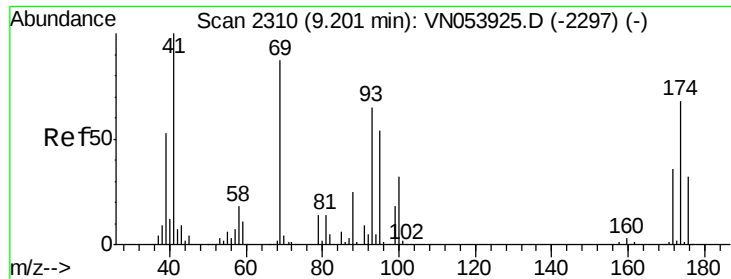
65 0.0 24.3 36.5#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

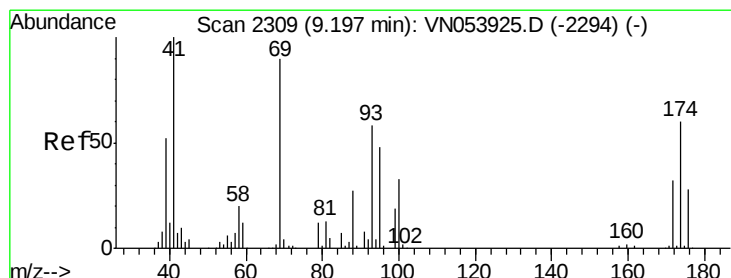
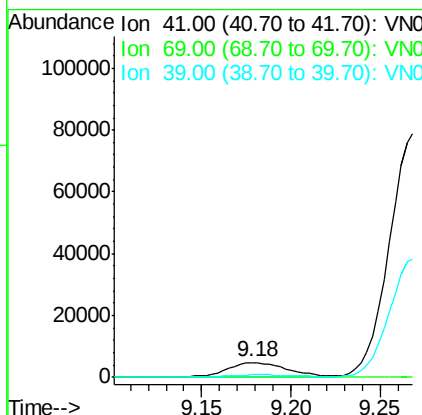
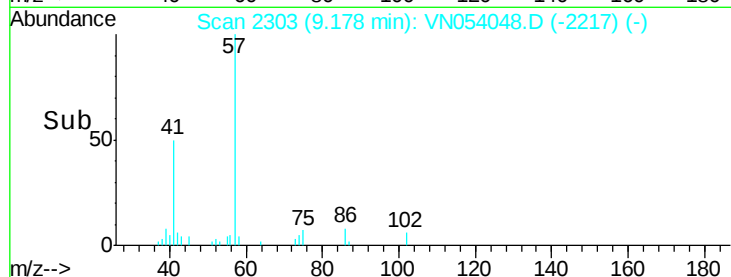
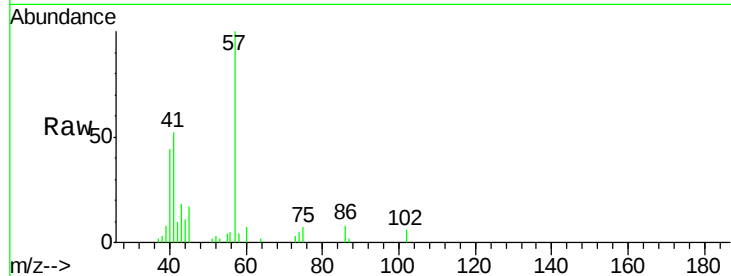




#48
Methvl methacrylate
Concen: 1.837 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN054048.D
Acq: 1 Mar 2019 23:42

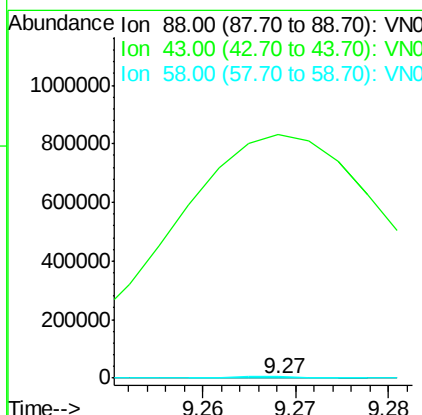
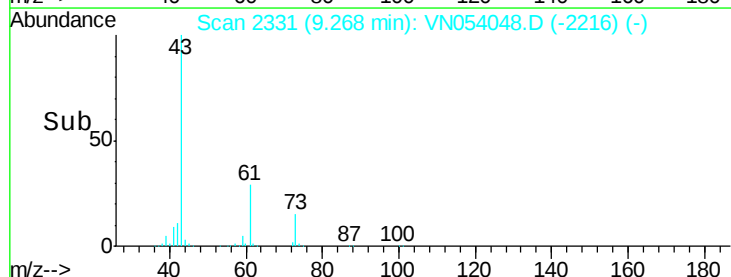
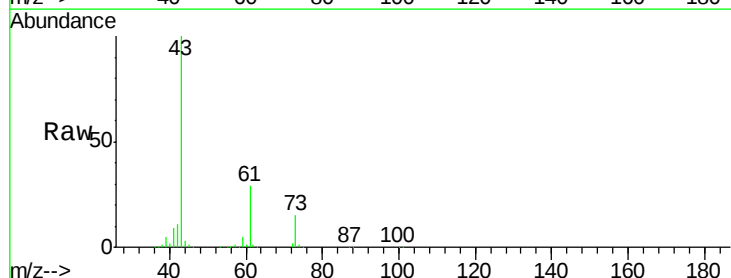
Instrument :
MSVOA_N
ClientSampled :
Z-3-14-A

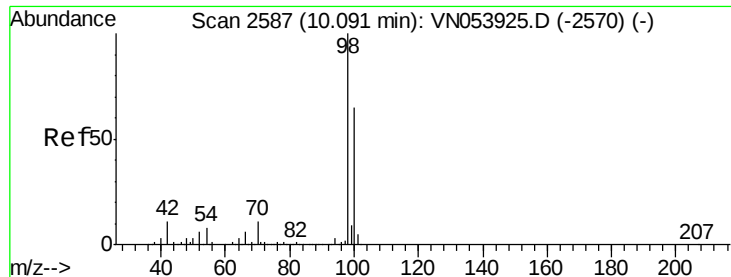
Tot Ion: 41 Resp: 10333
Ion Ratio Lower Upper
41 100
69 0.0 74.8 112.2#
39 22.4 39.0 58.6#



#49
1,4-Dioxane
Concen: 0.880 ug/l
RT: 9.27 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN054048.D
Acq: 1 Mar 2019 23:42

Tgt Ion: 88 Resp: 67
Ion Ratio Lower Upper
88 100
43 2518473.1 21.2 31.8#
58 12337.3 54.2 81.2#





#50

Toluene-d8

Concen: 52.418 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054048.D

Acq: 1 Mar 2019 23:42

Instrument :

MSVOA_N

ClientSampleId :

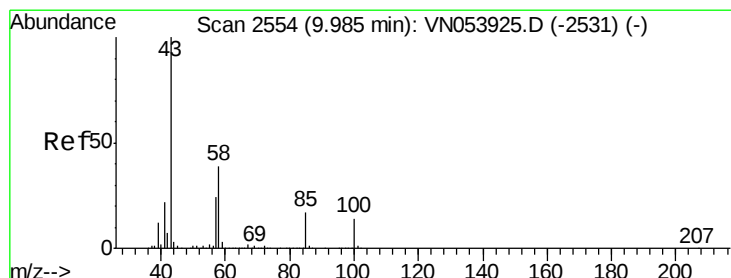
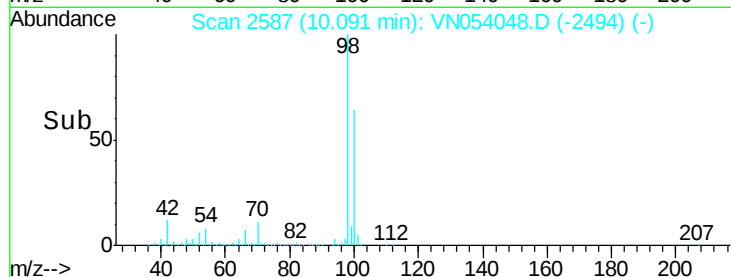
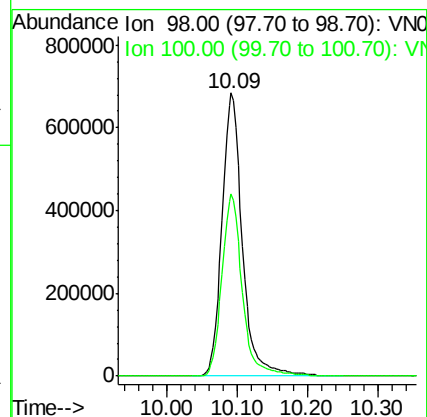
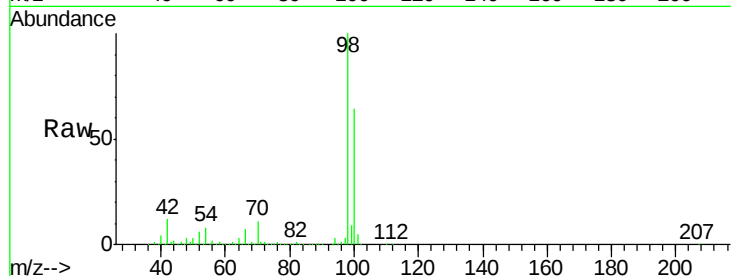
Z-3-14-A

Tot Ion: 98 Resp: 1375959

Ion Ratio Lower Upper

98 100

100 64.4 51.9 77.9



#51

4-Methyl-2-Pentanone

Concen: 1.508 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN054048.D

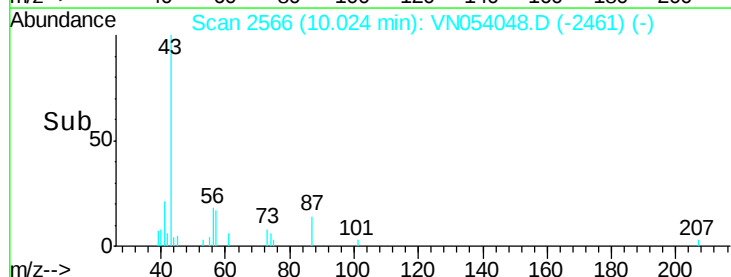
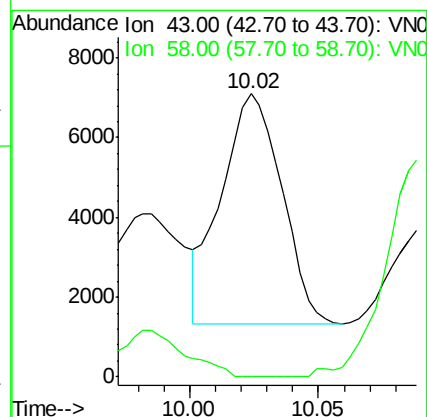
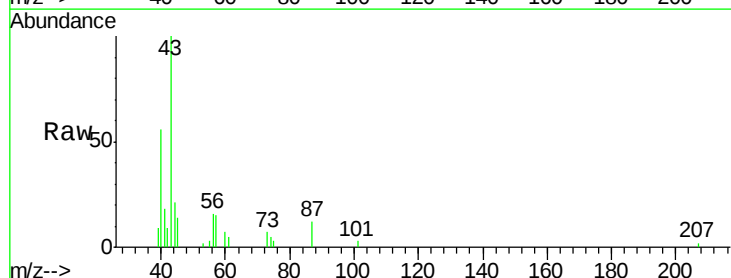
Acq: 1 Mar 2019 23:42

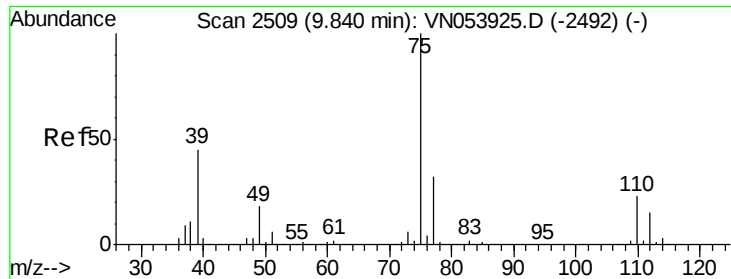
Tgt Ion: 43 Resp: 9472

Ion Ratio Lower Upper

43 100

58 0.0 32.7 49.1#

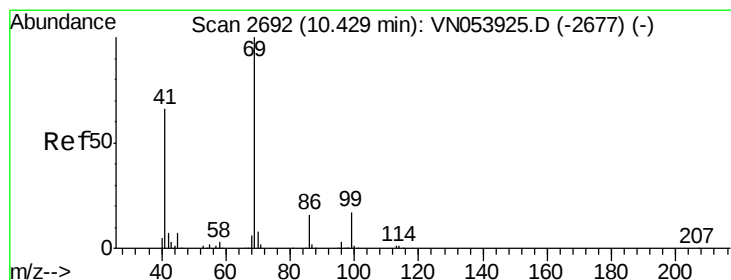
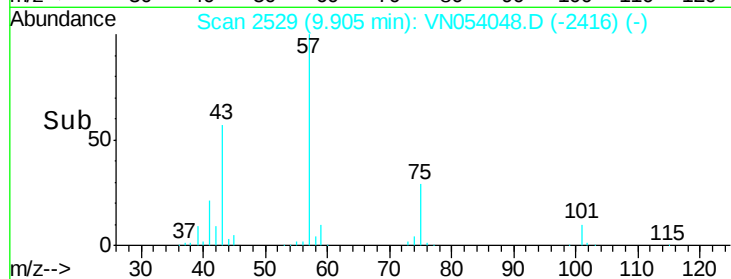
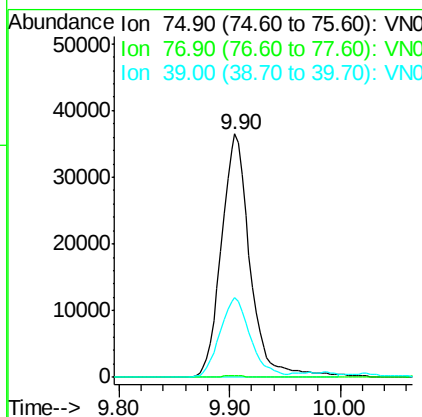
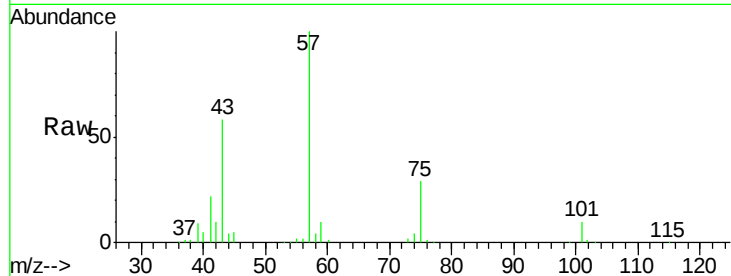




#54
 cis-1,3-Dichloropropene
 Concen: 5.570 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN054048.D
 Acq: 1 Mar 2019 23:42

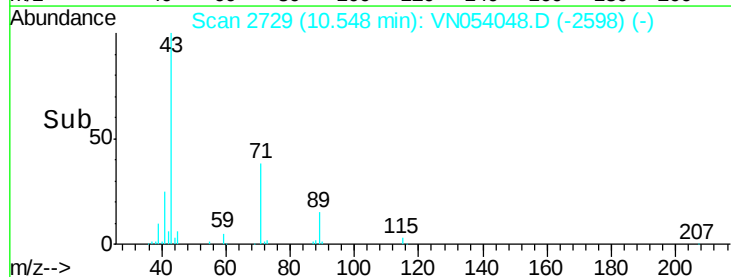
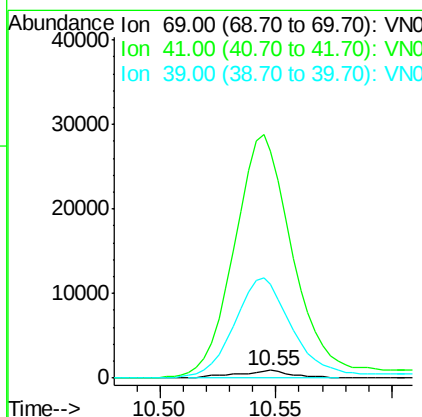
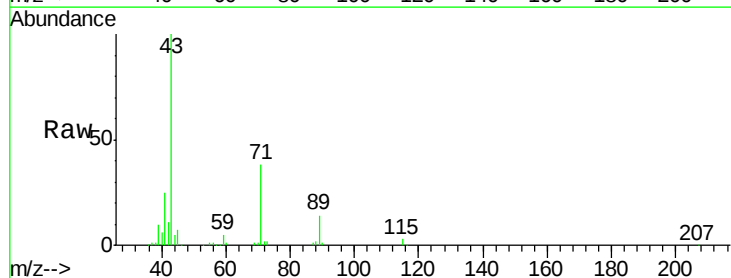
Instrument :
 MSVOA_N
 ClientSampleId :
 Z-3-14-A

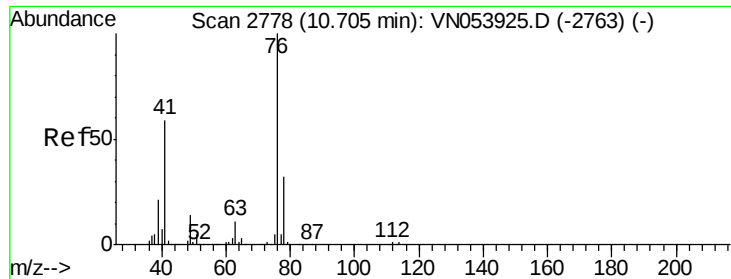
Tot Ion: 75 Resp: 65701
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.8 38.6#
 39 32.5 31.4 47.0



#56
 Ethyl methacrylate
 Concen: 2.113 ug/l
 RT: 10.55 min Scan# 2729
 Delta R.T. 0.12 min
 Lab File: VN054048.D
 Acq: 1 Mar 2019 23:42

Tgt Ion: 69 Resp: 1482
 Ion Ratio Lower Upper
 69 100
 41 3492.0 47.5 71.3#
 39 1421.4 23.4 35.0#





#57

1,3-Dichloropropane

Concen: 1.054 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN054048.D

Acq: 1 Mar 2019 23:42

Instrument :

MSVOA_N

ClientSampled :

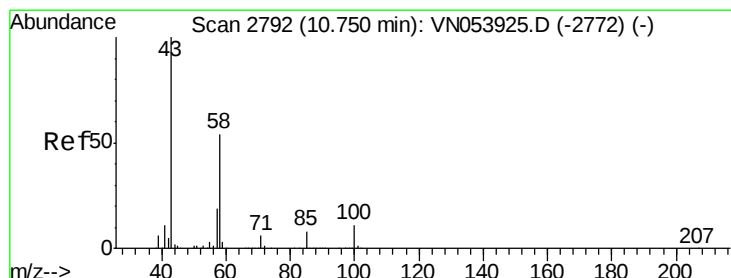
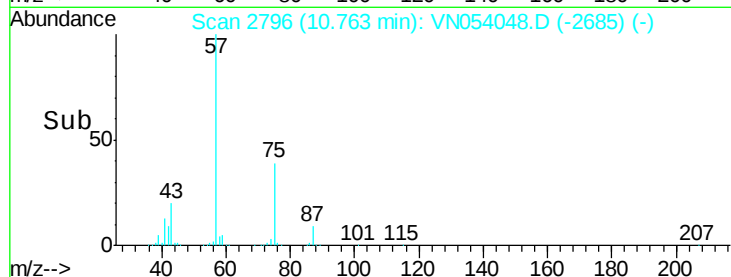
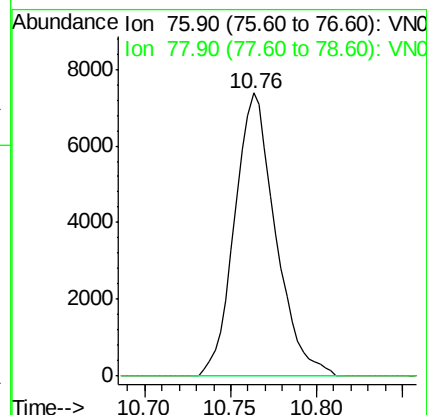
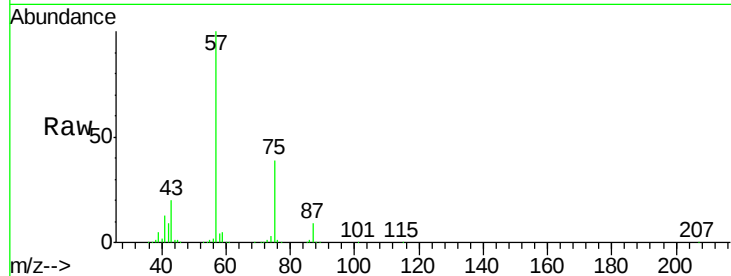
Z-3-14-A

Tot Ion: 76 Resp: 12196

Ion Ratio Lower Upper

76 100

78 0.0 25.2 37.8#



#59

2-Hexanone

Concen: 45.898 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN054048.D

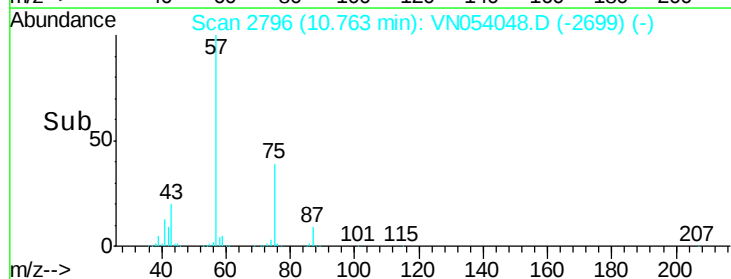
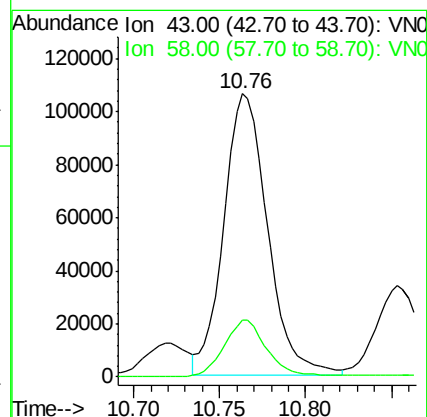
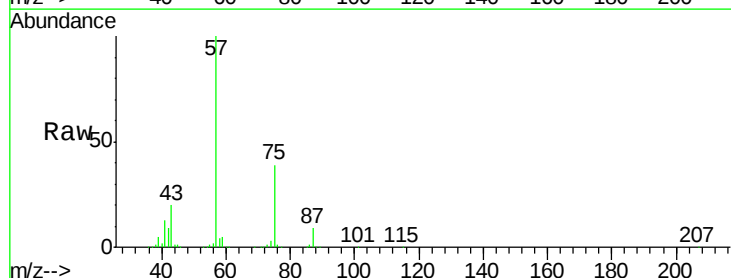
Acq: 1 Mar 2019 23:42

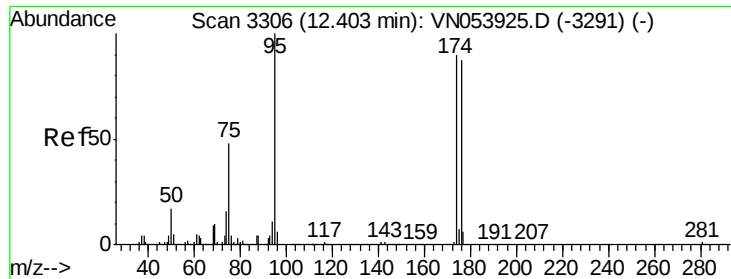
Tgt Ion: 43 Resp: 187541

Ion Ratio Lower Upper

43 100

58 19.9 29.1 87.4#

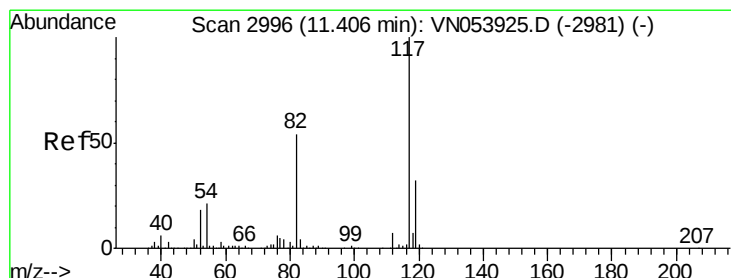
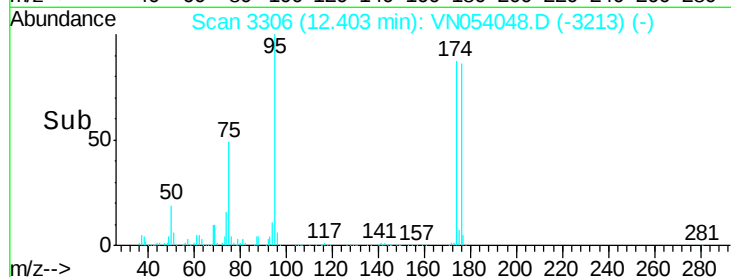
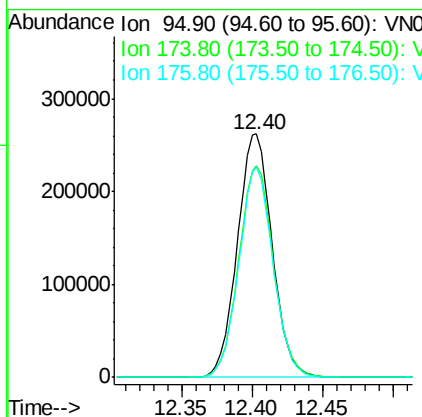
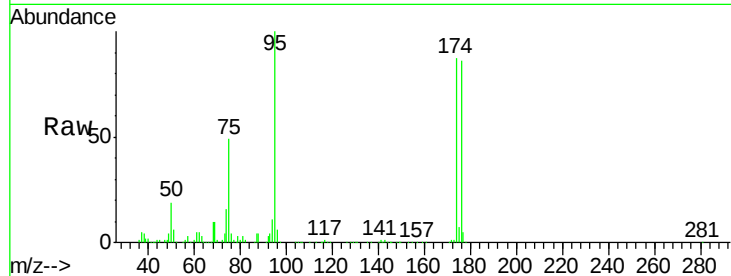




#62
4-Bromofluorobenzene
Concen: 51.694 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN054048.D
Acq: 1 Mar 2019 23:42

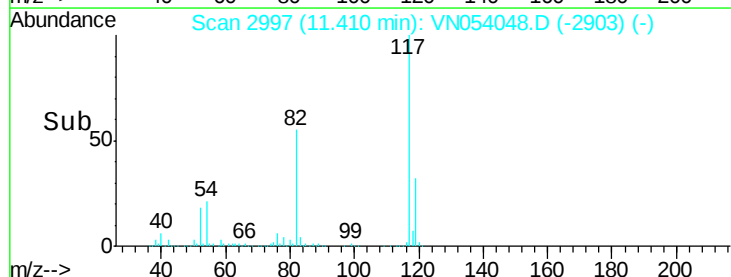
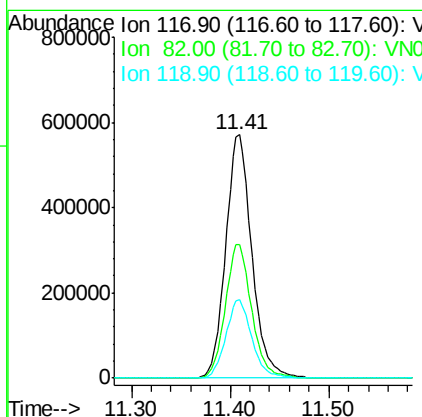
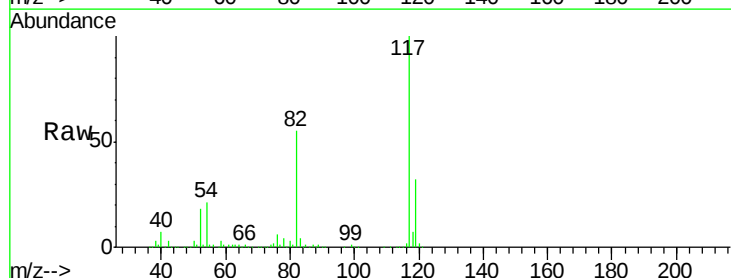
Instrument :
MSVOA_N
ClientSampled :
Z-3-14-A

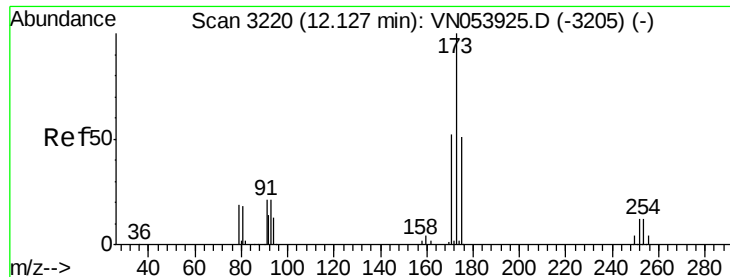
Tot Ion: 95 Resp: 452104
Ion Ratio Lower Upper
95 100
174 87.2 0.0 188.8
176 85.1 0.0 182.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN054048.D
Acq: 1 Mar 2019 23:42

Tgt Ion: 117 Resp: 1061696
Ion Ratio Lower Upper
117 100
82 55.0 41.4 62.2
119 32.0 25.3 37.9





#71

Bromoform

Concen: 0.566 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN054048.D

Acq: 1 Mar 2019 23:42

Instrument :

MSVOA_N

ClientSampleId :

Z-3-14-A

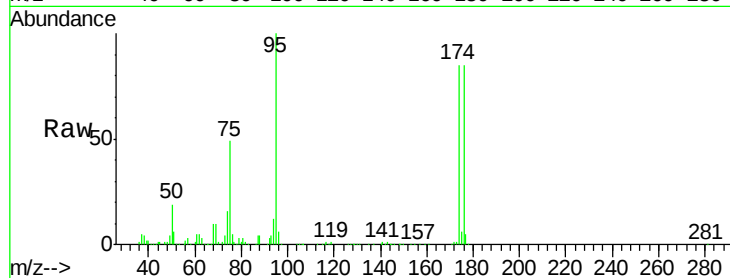
Tot Ion:173 Resp: 3177

Ion Ratio Lower Upper

173 100

175 782.6 24.3 72.8#

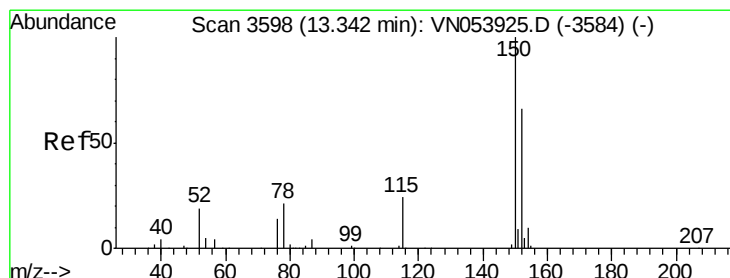
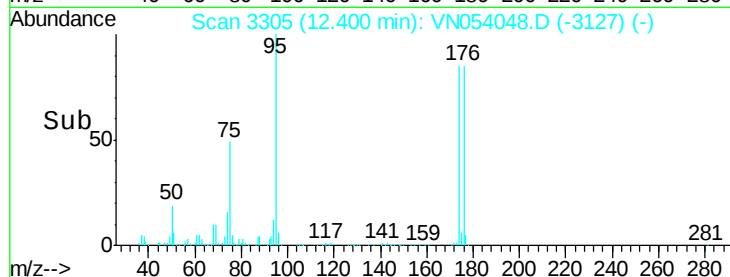
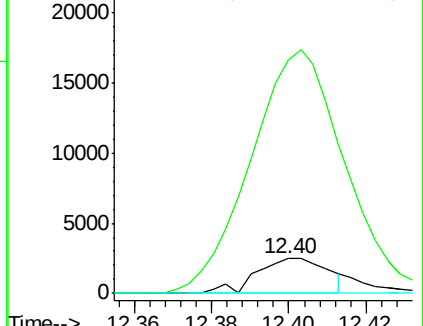
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN054048.D

Acq: 1 Mar 2019 23:42

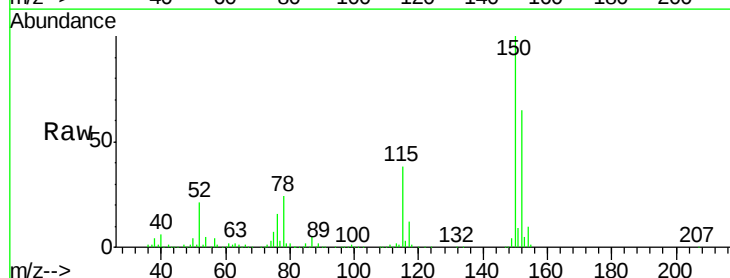
Tgt Ion:152 Resp: 380619

Ion Ratio Lower Upper

152 100

115 57.7 27.2 81.6

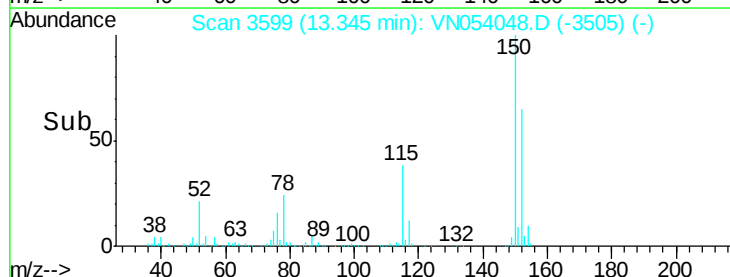
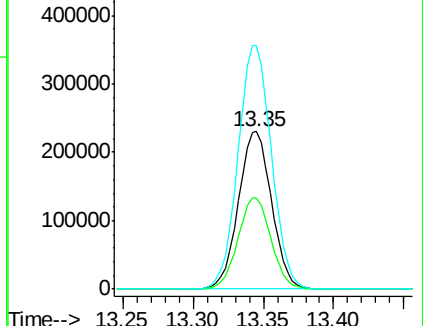
150 155.7 0.0 348.2

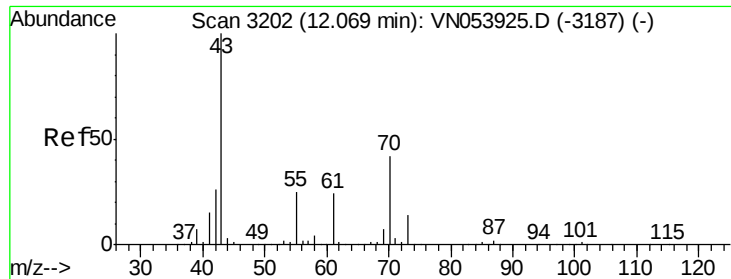


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.277 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN054048.D

Acq: 1 Mar 2019 23:42

Instrument :

MSVOA_N

ClientSampleId :

Z-3-14-A

Tot Ion: 43 Resp: 17681

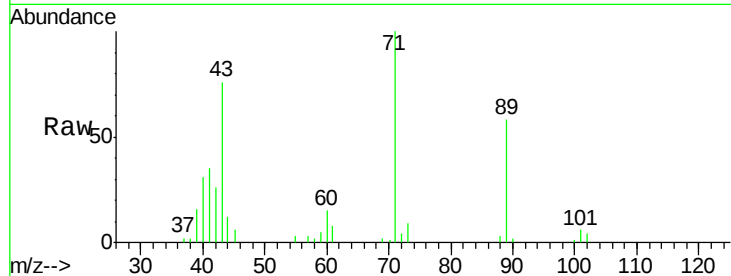
Ion Ratio Lower Upper

43 100

70 0.8 37.4 56.2#

55 4.2 21.4 32.0#

61 10.9 20.9 31.3#

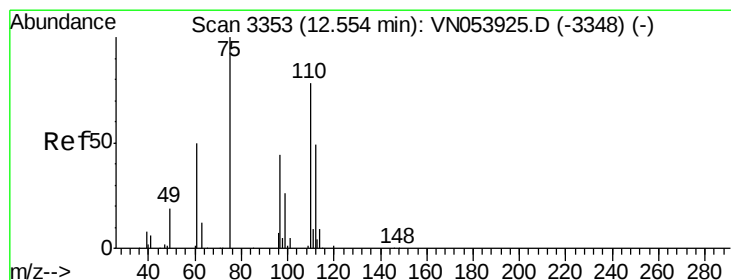
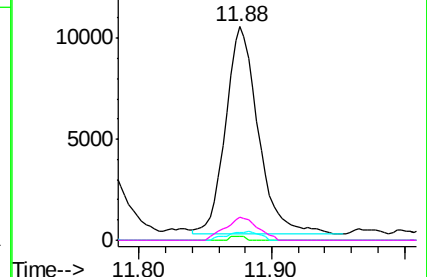
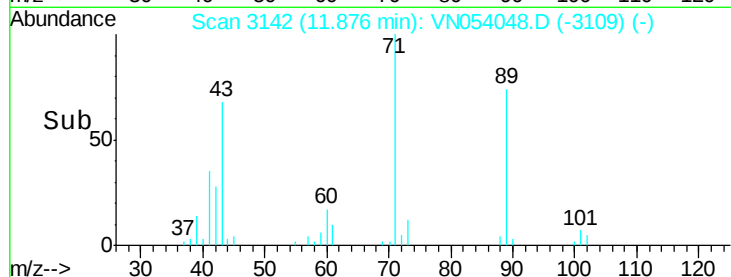


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 36.296 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054048.D

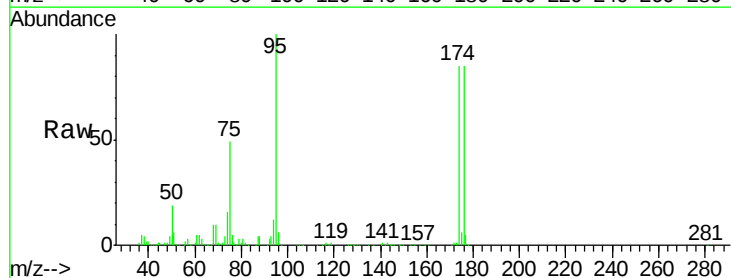
Acq: 1 Mar 2019 23:42

Tgt Ion: 75 Resp: 221613

Ion Ratio Lower Upper

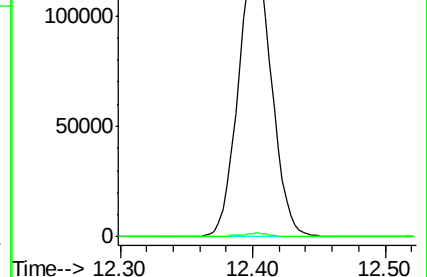
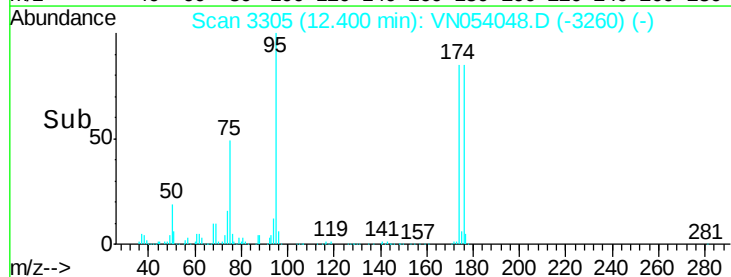
75 100

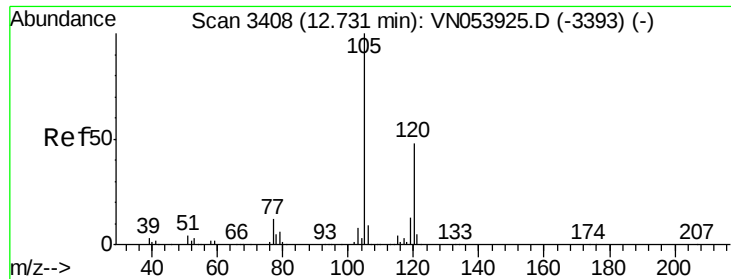
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

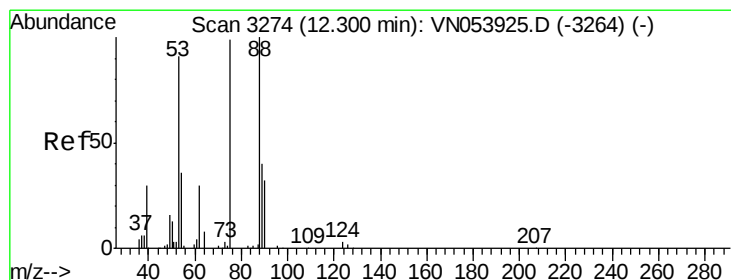
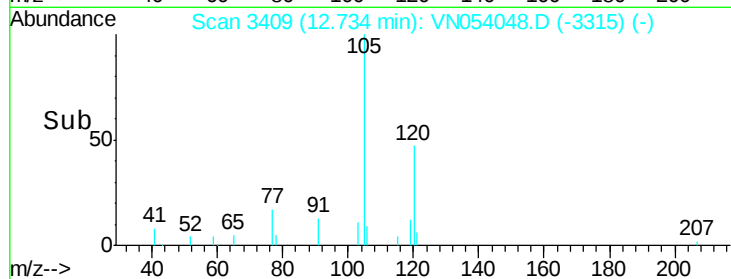
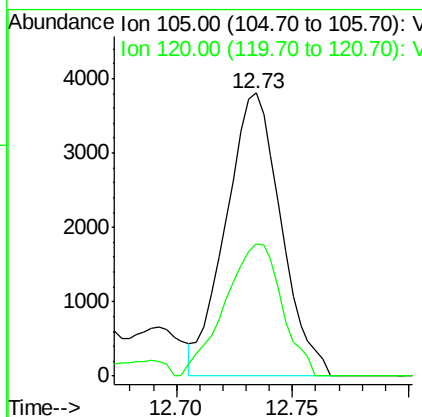
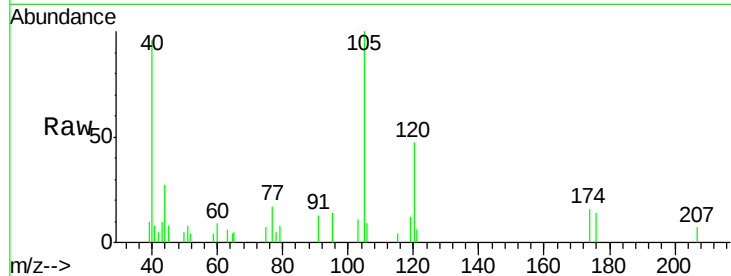




#80
 1,3,5-Trimethylbenzene
 Concen: 0.260 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN054048.D
 Acq: 1 Mar 2019 23:42

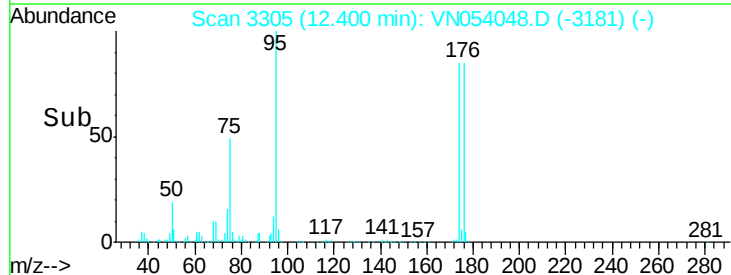
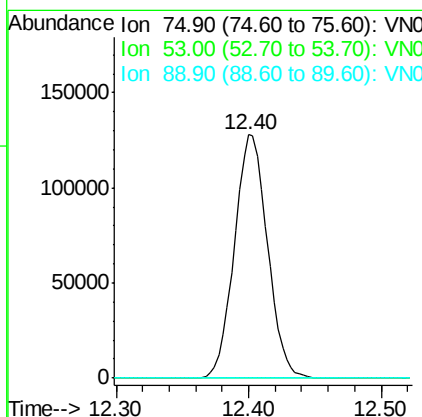
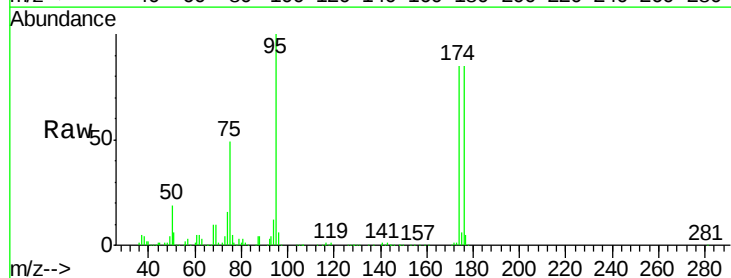
Instrument :
 MSVOA_N
 ClientSampled :
 Z-3-14-A

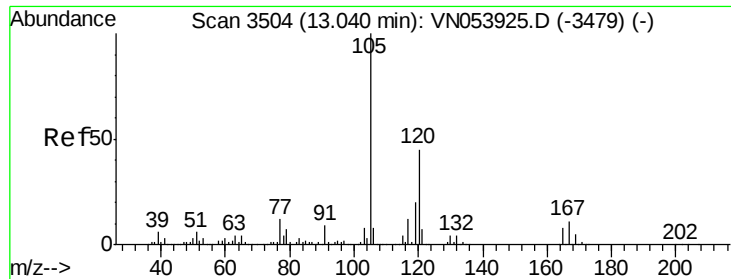
Tot Ion:105 Resp: 6307
 Ion Ratio Lower Upper
 105 100
 120 48.2 25.1 75.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 114.716 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN054048.D
 Acq: 1 Mar 2019 23:42

Tgt Ion: 75 Resp: 221613
 Ion Ratio Lower Upper
 75 100
 53 0.1 68.6 102.8#
 89 0.0 35.3 52.9#





#84

1,2,4-Trimethylbenzene

Concen: 0.222 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN054048.D

Acq: 1 Mar 2019 23:42

Instrument :

MSVOA_N

ClientSampled :

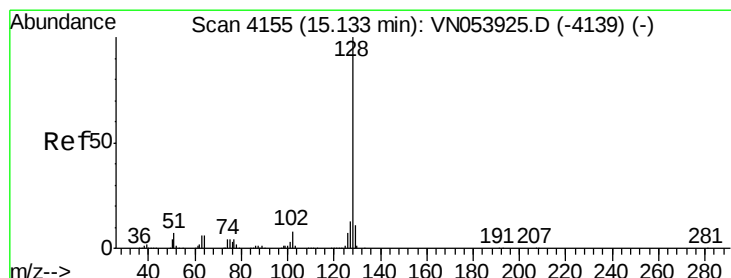
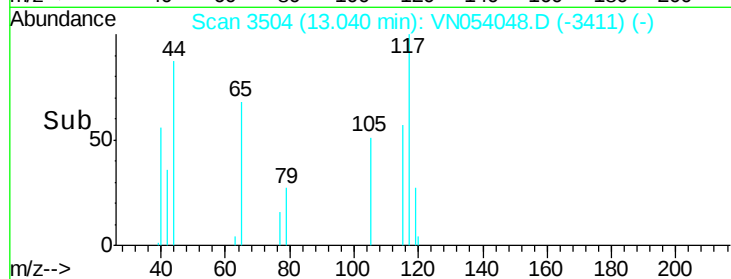
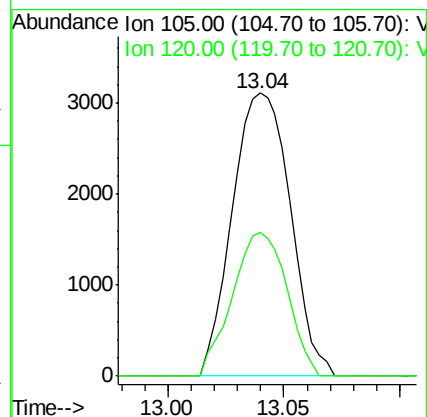
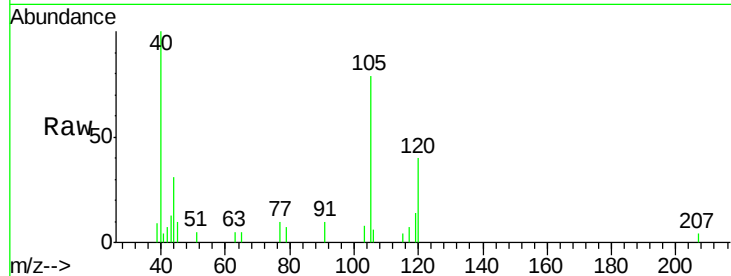
Z-3-14-A

Tot Ion:105 Resp: 5387

Ion Ratio Lower Upper

105 100

120 47.9 23.2 69.5



#95

Naphthalene

Concen: 3.357 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054048.D

Acq: 1 Mar 2019 23:42

Tgt Ion:128 Resp: 2341

Ion Ratio Lower Upper

128 100

127 5.1 10.2 15.2#

129 6.3 8.6 12.8#

