

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN011420\
 Data File : VN059703.D
 Acq On : 14 Jan 2020 13:13
 Operator : JC/MD
 Sample : L1004-09
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BU-RO-229

Quant Time: Jan 14 22:17:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 14 08:58:21 2020
 Response via : Initial Calibration

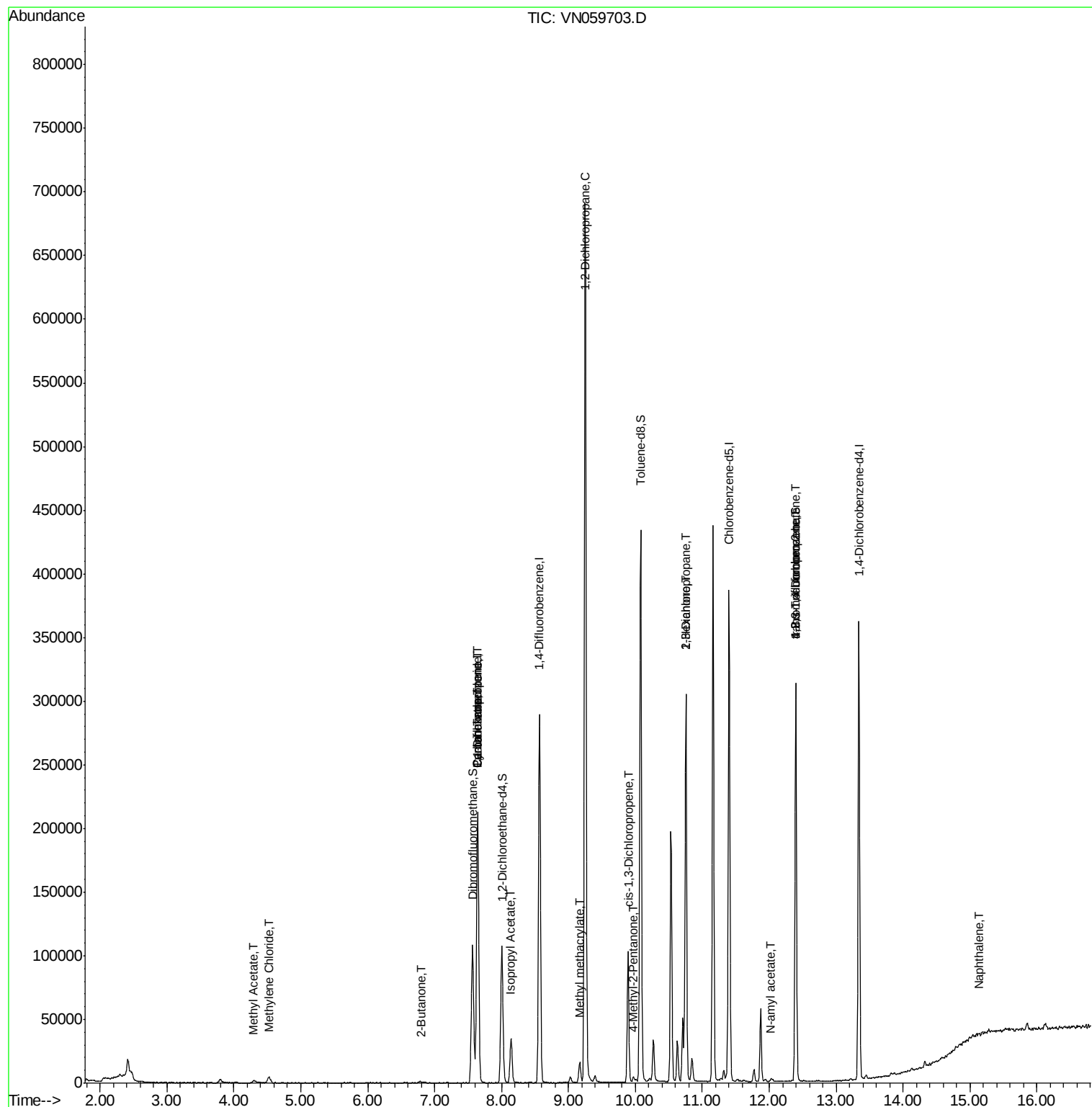
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	182011	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	268903	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	227614	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	100727	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	93218	46.12	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.24%	
35) Dibromofluoromethane	7.57	113	82056	51.17	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.34%	
50) Toluene-d8	10.08	98	301571	48.54	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.08%	
62) 4-Bromofluorobenzene	12.40	95	104341	46.58	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.16%	
Target Compounds						
16) Acetone	3.79	43	4787	Below Cal		98
18) Methyl Acetate	4.29	43	3973	1.683	ug/l	99
20) Methylene Chloride	4.53	84	3553	0.666	ug/l	91
25) 2-Butanone	6.81	43	677	0.591	ug/l #	50
31) Cyclohexane	7.64	56	3432	1.148	ug/l #	10
36) 1,1-Dichloropropene	7.64	75	12169	5.197	ug/l #	49
38) Carbon Tetrachloride	7.64	117	16824	6.605	ug/l #	15
43) Isopropyl Acetate	8.14	43	41132	10.888	ug/l	92
45) 1,2-Dichloropropane	9.25	63	794	0.459	ug/l #	44
48) Methyl methacrylate	9.17	41	2355	1.394	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3315	1.518	ug/l	88
54) cis-1,3-Dichloropropene	9.89	75	19729	6.836	ug/l #	56
57) 1,3-Dichloropropane	10.75	76	3318	1.196	ug/l #	42
59) 2-Hexanone	10.75	43	41855	26.016	ug/l #	55
74) N-amyl acetate	12.03	43	2081	0.726	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	52261	30.830	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	52261	66.208	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.27	75	97	Below Cal	#	6
95) Naphthalene	15.13	128	1304	0.237	ug/l #	69

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059703.D

Acq: 14 Jan 2020 13:13

Instrument :

MSVOA_N

ClientSampled :

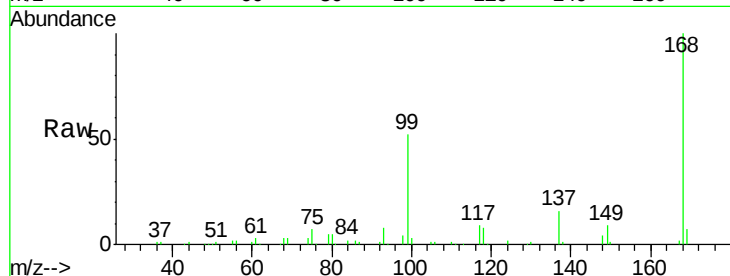
BU-RO-229

Tgt Ion:168 Resp: 182011

Ion Ratio Lower Upper

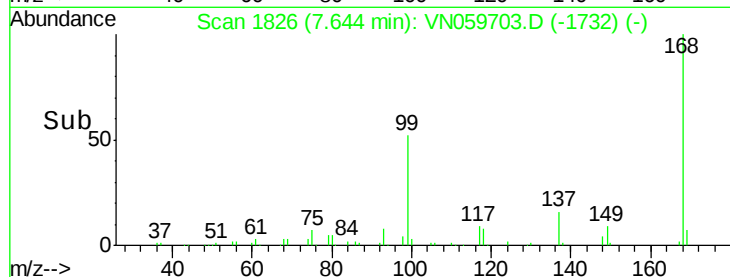
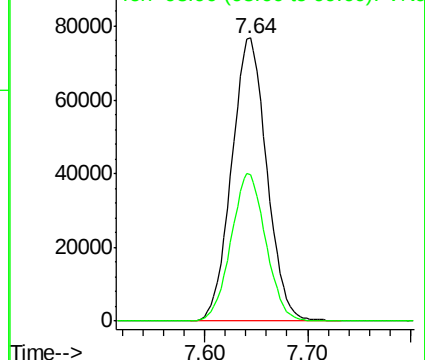
168 100

99 51.8 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN059703.D

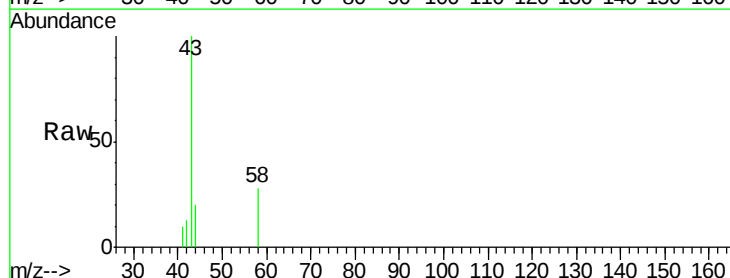
Acq: 14 Jan 2020 13:13

Tgt Ion: 43 Resp: 4787

Ion Ratio Lower Upper

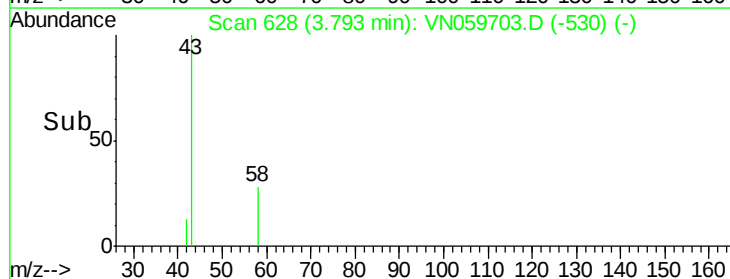
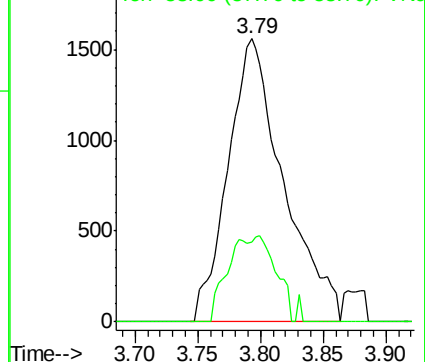
43 100

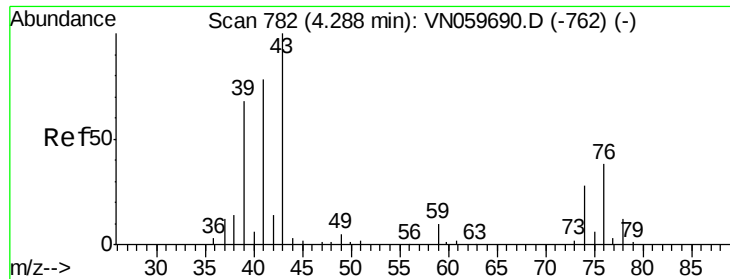
58 28.3 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

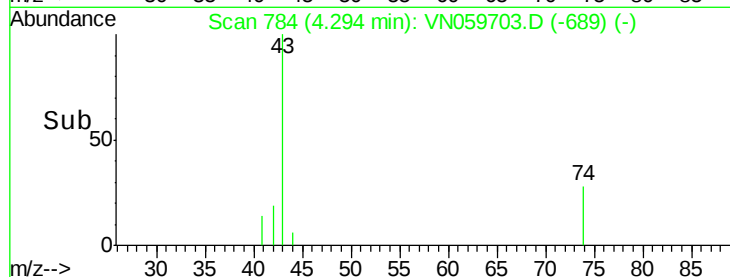
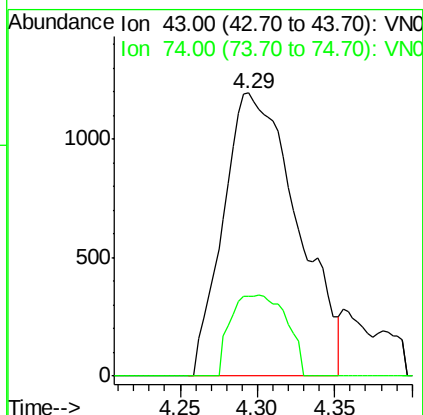
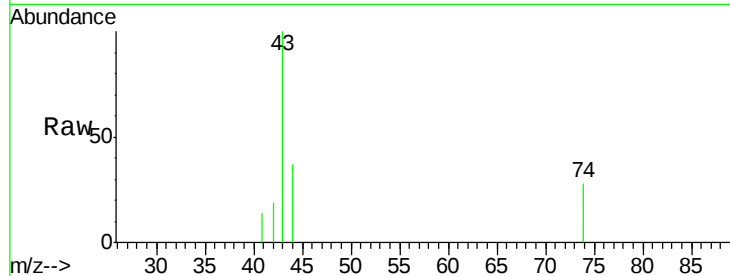




#18
Methyl Acetate
Concen: 1.683 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN059703.D
Acq: 14 Jan 2020 13:13

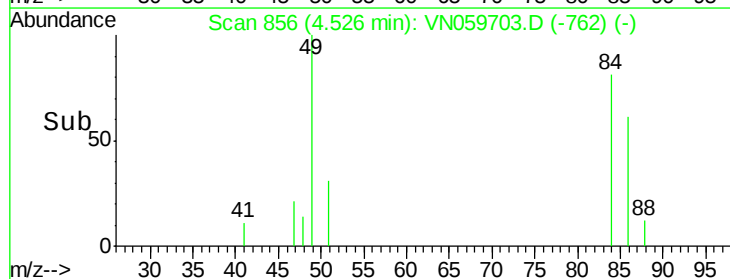
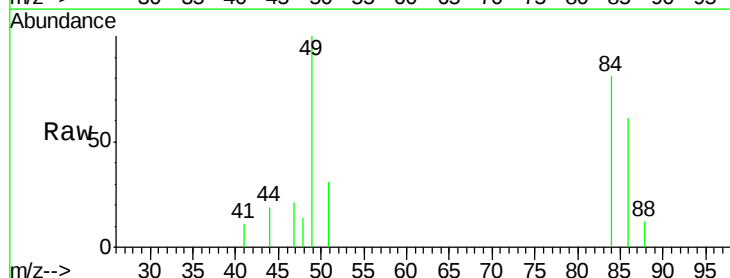
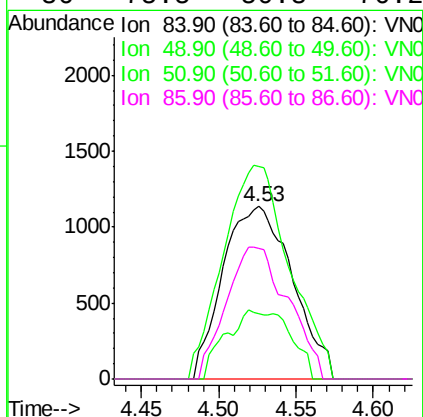
Instrument :
MSVOA_N
ClientSampled :
BU-RO-229

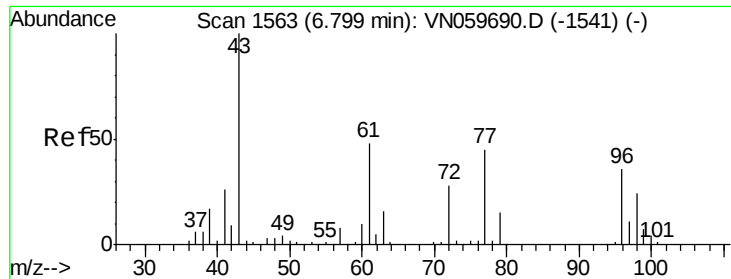
Tgt Ion: 43 Resp: 3973
Ion Ratio Lower Upper
43 100
74 21.4 17.5 26.3



#20
Methylene Chloride
Concen: 0.666 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN059703.D
Acq: 14 Jan 2020 13:13

Tgt Ion: 84 Resp: 3553
Ion Ratio Lower Upper
84 100
49 123.5 106.6 160.0
51 38.0 31.9 47.9
86 75.5 50.8 76.2





#25

2-Butanone

Concen: 0.591 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. 0.01 min

Lab File: VN059703.D

Acq: 14 Jan 2020 13:13

Instrument :

MSVOA_N

ClientSampleId :

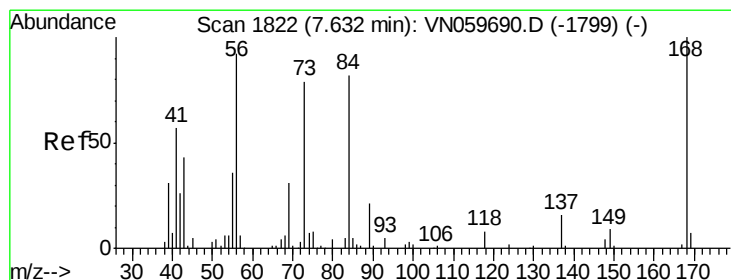
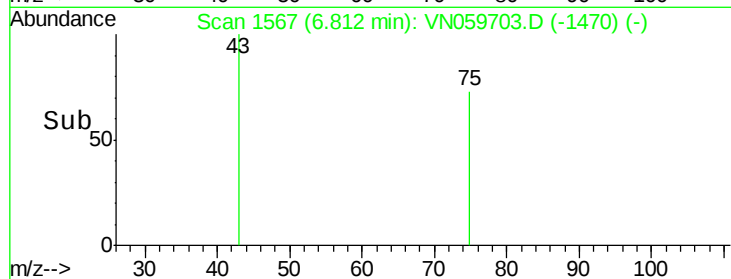
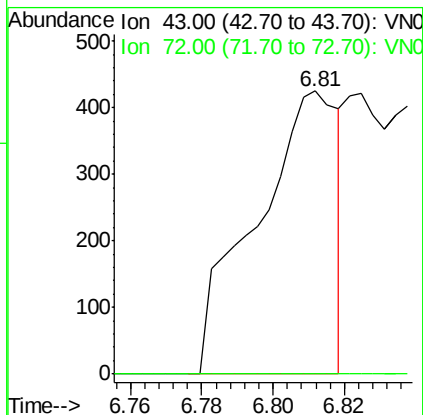
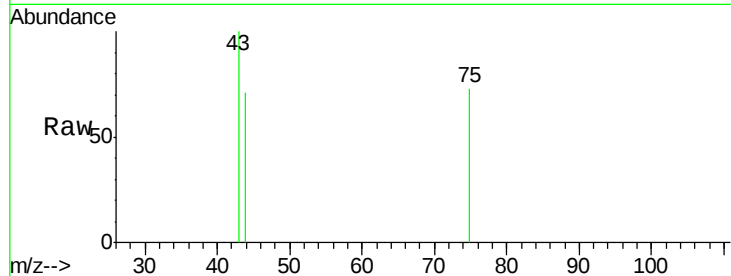
BU-RO-229

Tgt Ion: 43 Resp: 677

Ion Ratio Lower Upper

43 100

72 0.0 19.9 29.9#



#31

Cyclohexane

Concen: 1.148 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN059703.D

Acq: 14 Jan 2020 13:13

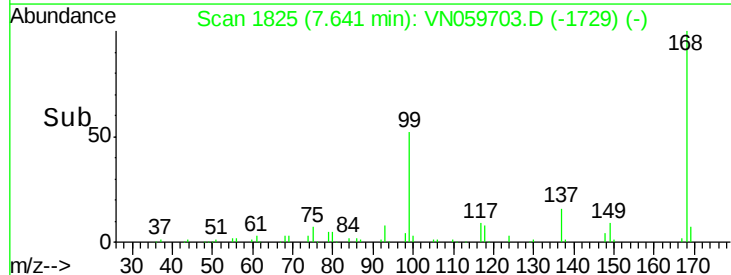
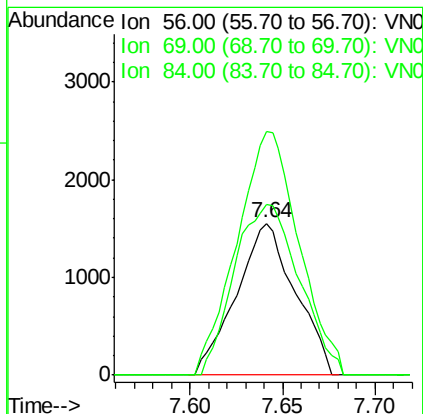
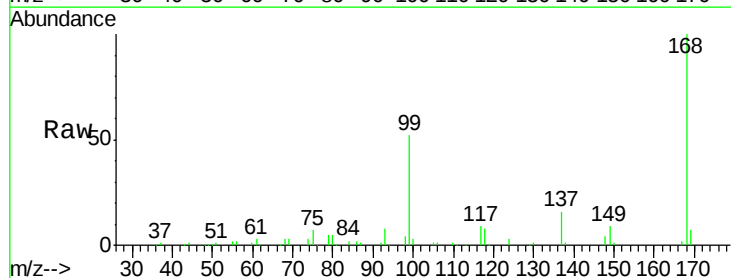
Tgt Ion: 56 Resp: 3432

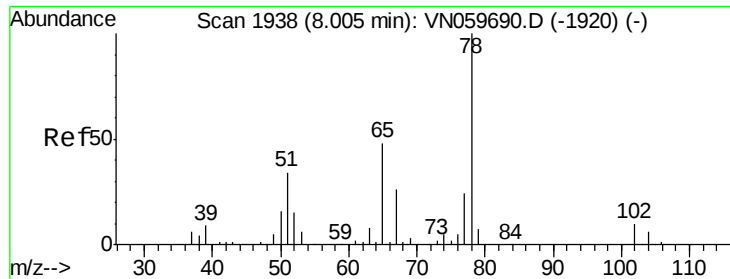
Ion Ratio Lower Upper

56 100

69 160.4 26.5 39.7#

84 112.6 65.3 97.9#

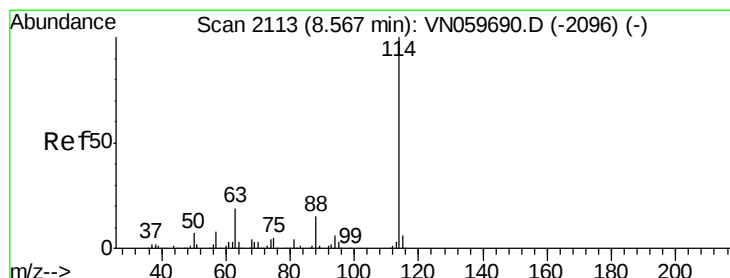
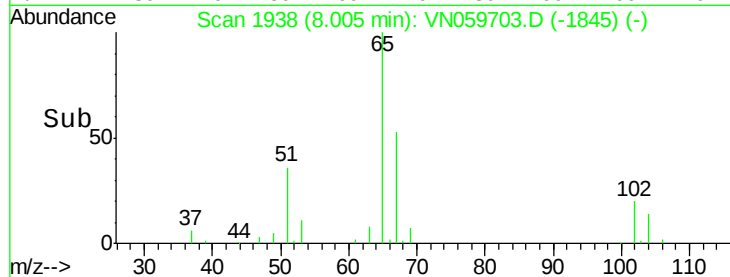
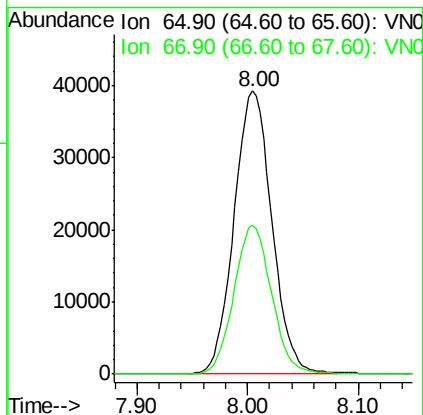
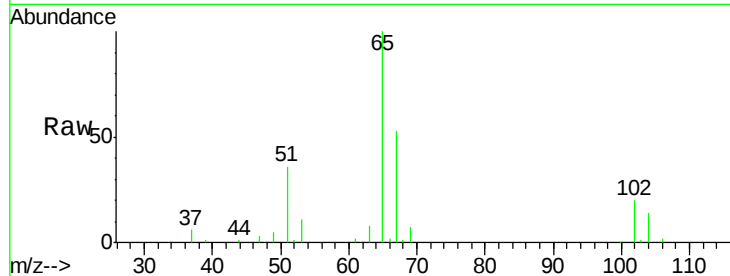




#33
 1,2-Dichloroethane-d4
 Concen: 46.118 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN059703.D
 Acq: 14 Jan 2020 13:13

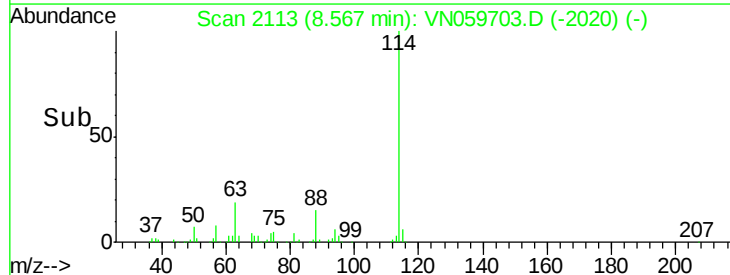
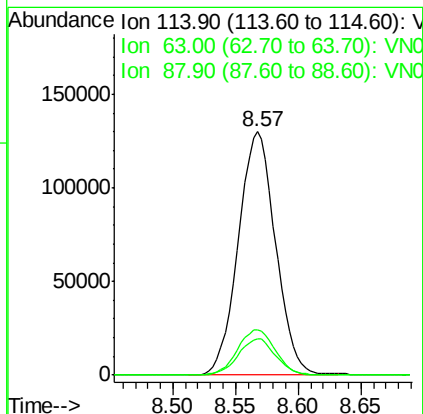
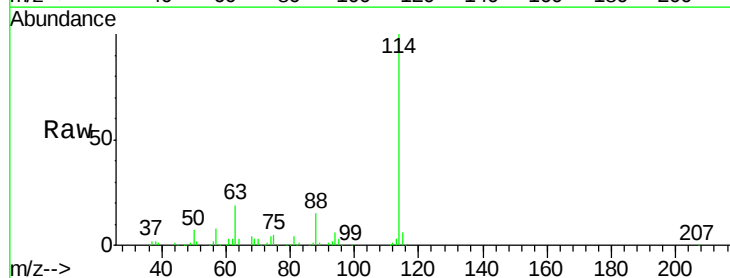
Instrument :
 MSVOA_N
 ClientSampleId :
 BU-RO-229

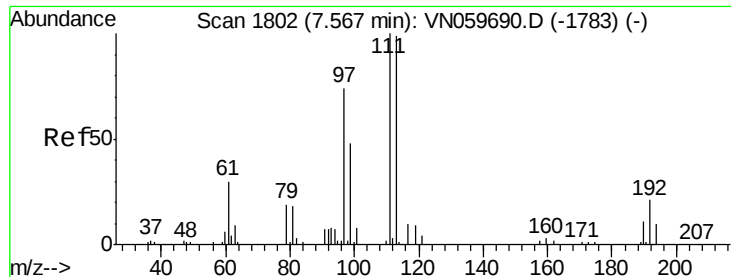
Tgt Ion: 65 Resp: 93218
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059703.D
 Acq: 14 Jan 2020 13:13

Tgt Ion: 114 Resp: 268903
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 43.6
 88 15.0 0.0 31.4

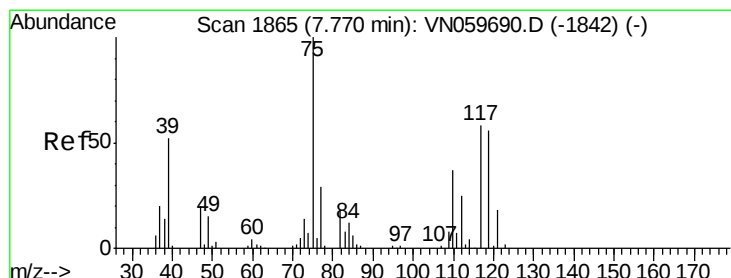
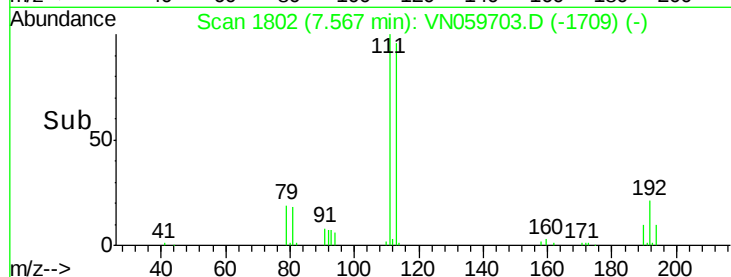
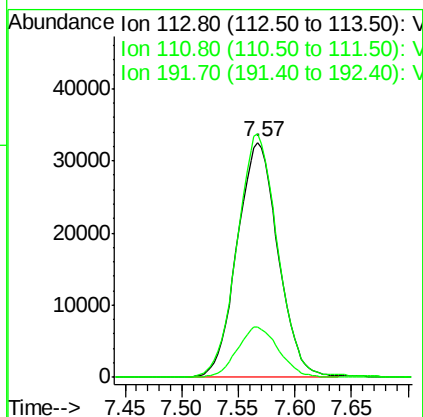
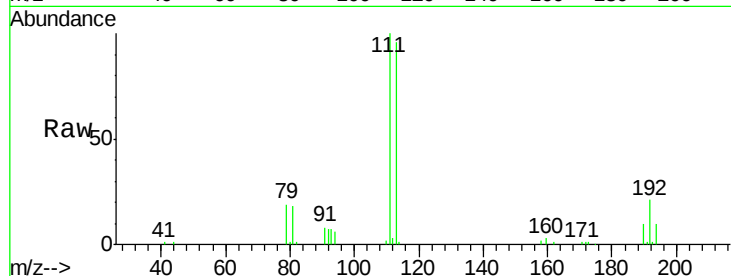




#35
 Dibromofluoromethane
 Concen: 51.170 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059703.D
 Acq: 14 Jan 2020 13:13

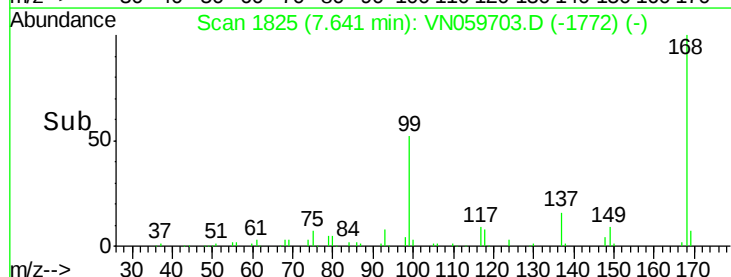
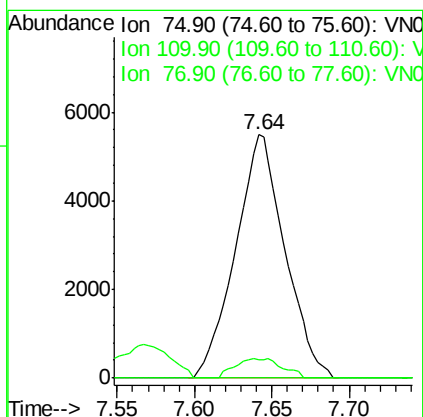
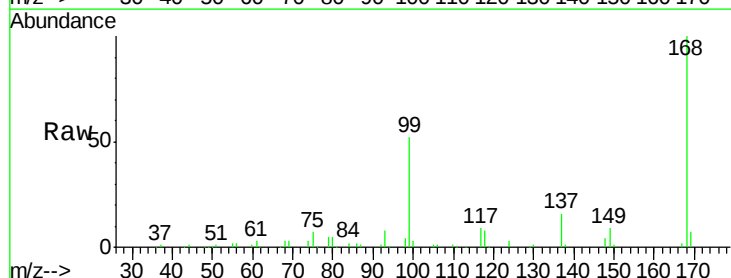
Instrument :
 MSVOA_N
 ClientSampleId :
 BU-RO-229

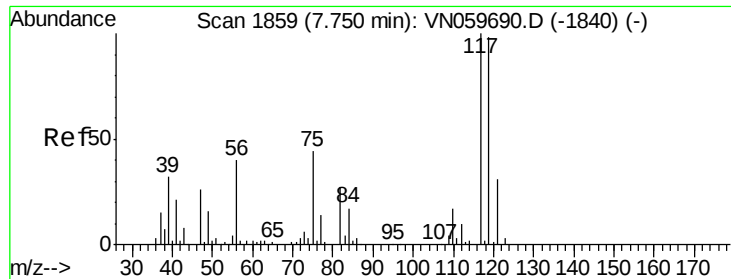
Tgt Ion: 113 Resp: 82056
 Ion Ratio Lower Upper
 113 100
 111 103.0 83.5 125.3
 192 21.6 15.4 23.2



#36
 1,1-Dichloropropene
 Concen: 5.197 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059703.D
 Acq: 14 Jan 2020 13:13

Tgt Ion: 75 Resp: 12169
 Ion Ratio Lower Upper
 75 100
 110 7.7 16.6 49.7#
 77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 6.605 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN059703.D

Acq: 14 Jan 2020 13:13

Instrument :

MSVOA_N

ClientSampleId :

BU-RO-229

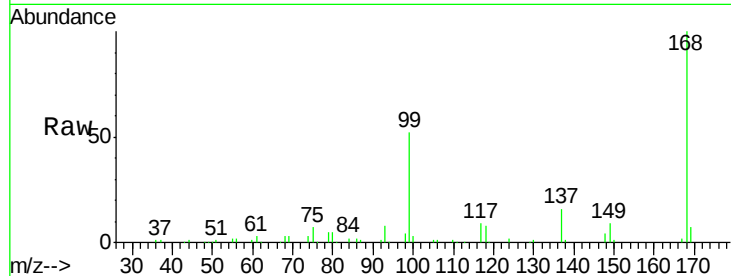
Tgt Ion:117 Resp: 16824

Ion Ratio Lower Upper

117 100

119 4.3 76.5 114.7#

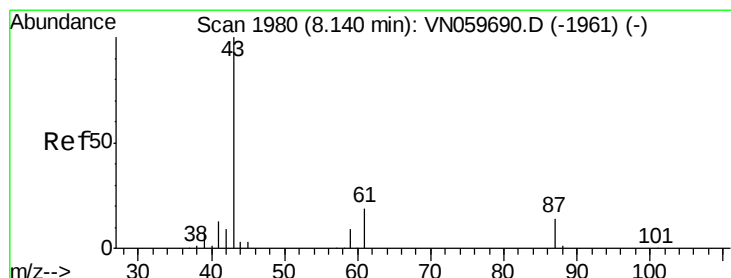
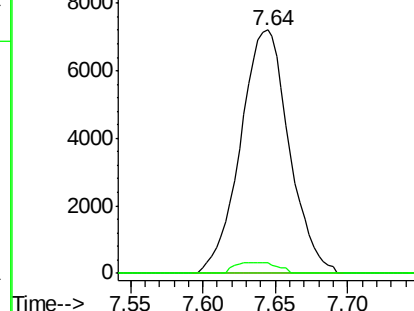
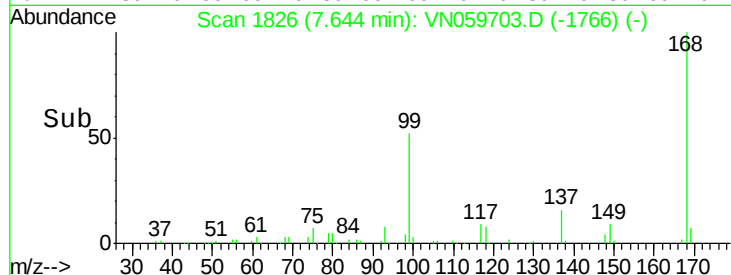
121 0.0 25.1 37.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 10.888 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN059703.D

Acq: 14 Jan 2020 13:13

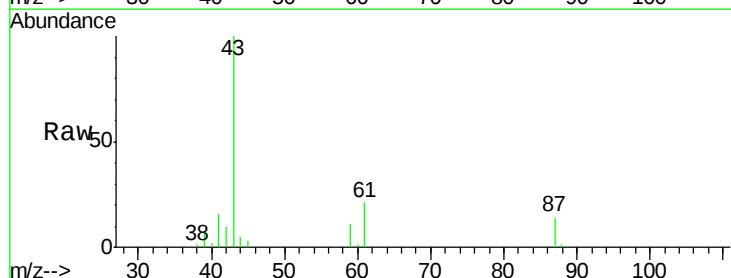
Tgt Ion: 43 Resp: 41132

Ion Ratio Lower Upper

43 100

61 20.4 20.2 30.2

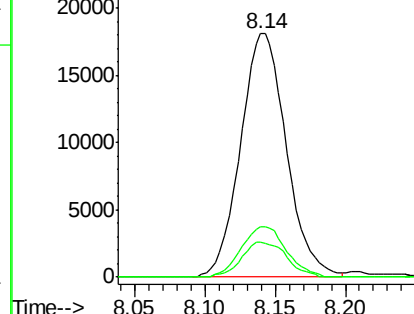
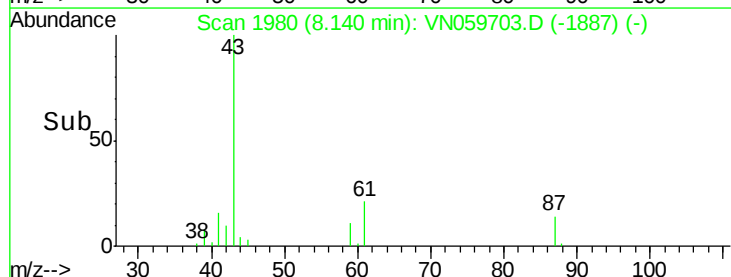
87 14.1 9.5 14.3

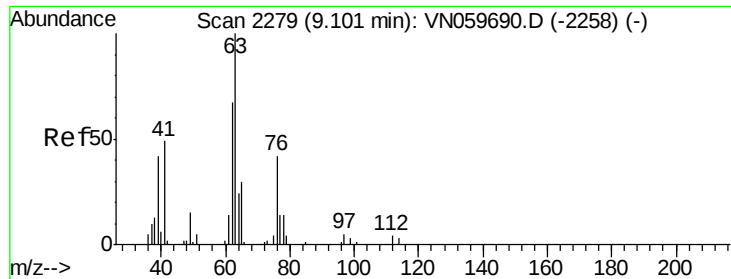


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.459 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN059703.D

Acq: 14 Jan 2020 13:13

Instrument :

MSVOA_N

ClientSampled :

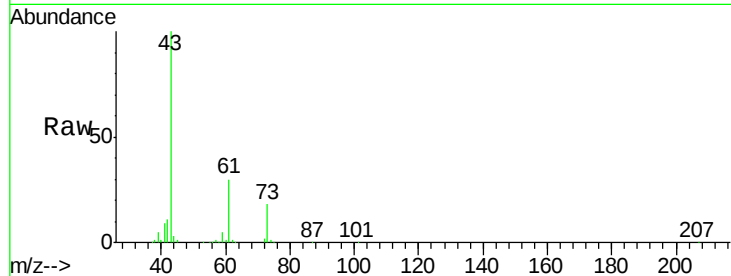
BU-RO-229

Tgt Ion: 63 Resp: 794

Ion Ratio Lower Upper

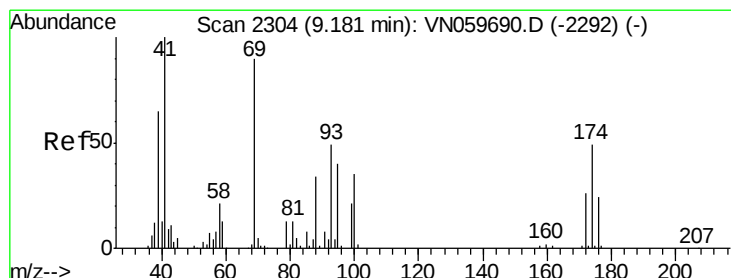
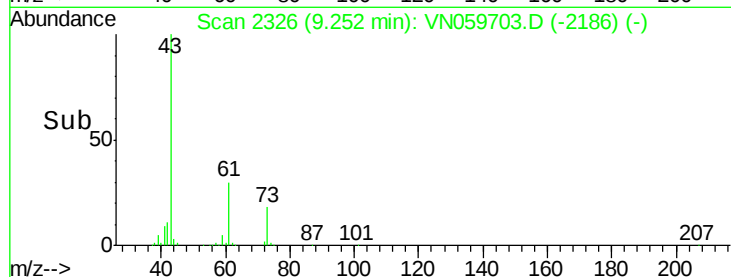
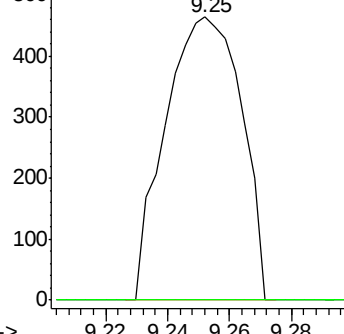
63 100

65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.394 ug/l

RT: 9.17 min Scan# 2299

Delta R.T. -0.02 min

Lab File: VN059703.D

Acq: 14 Jan 2020 13:13

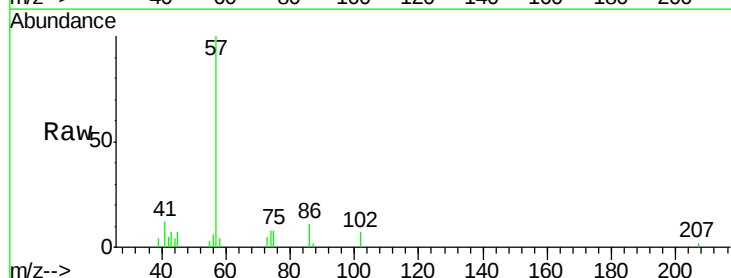
Tgt Ion: 41 Resp: 2355

Ion Ratio Lower Upper

41 100

69 0.0 64.4 96.6#

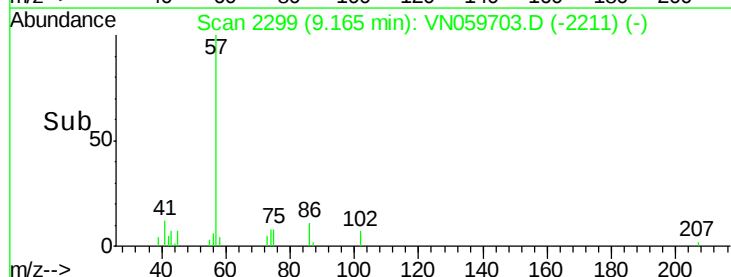
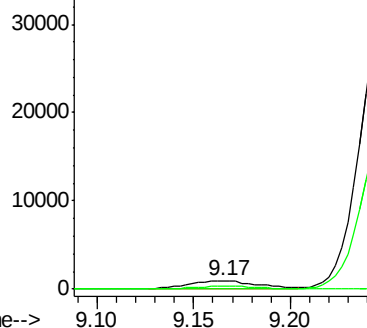
39 0.0 51.3 76.9#

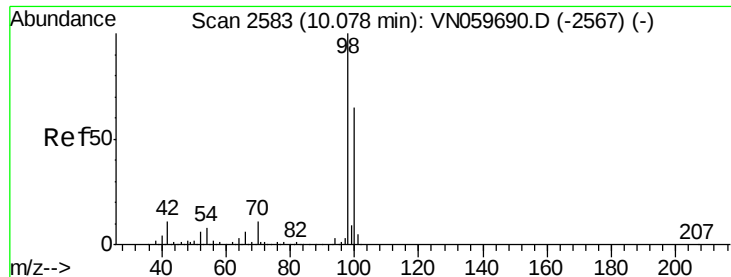


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 48.538 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN059703.D

Acq: 14 Jan 2020 13:13

Instrument :

MSVOA_N

ClientSampleId :

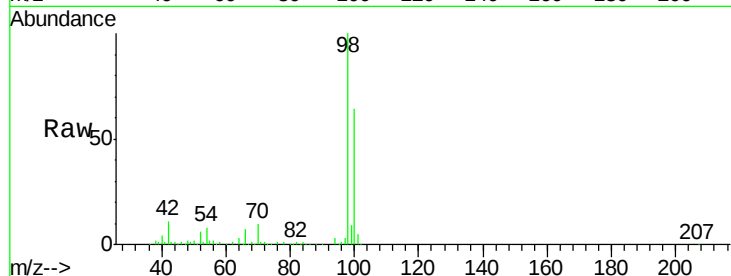
BU-RO-229

Tgt Ion: 98 Resp: 301571

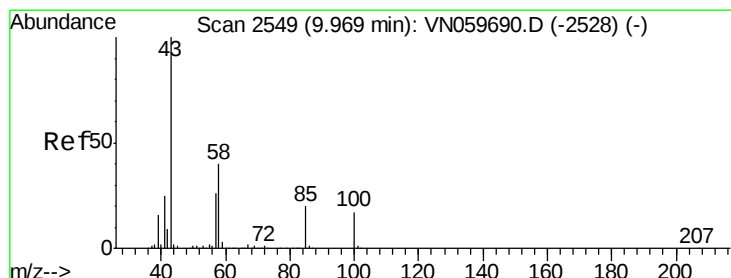
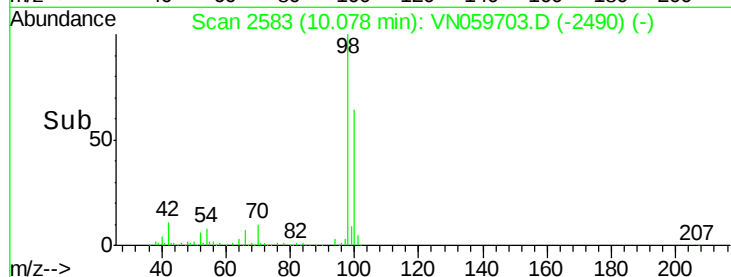
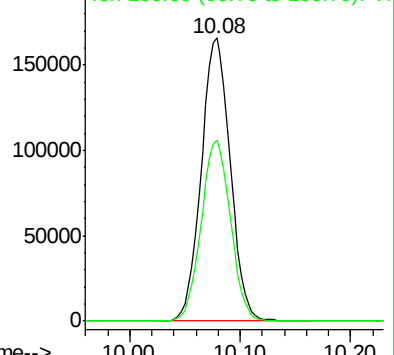
Ion Ratio Lower Upper

98 100

100 64.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN059703.D (-2490) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.518 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN059703.D

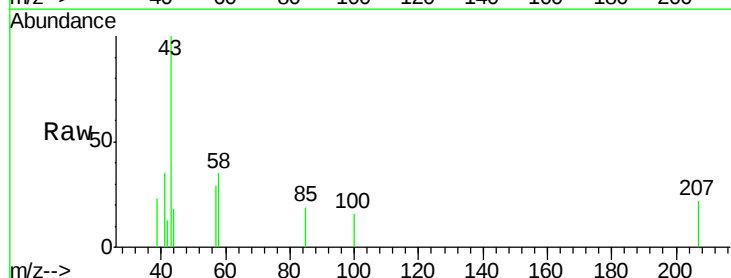
Acq: 14 Jan 2020 13:13

Tgt Ion: 43 Resp: 3315

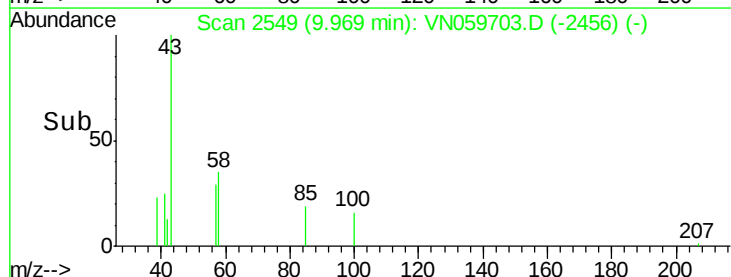
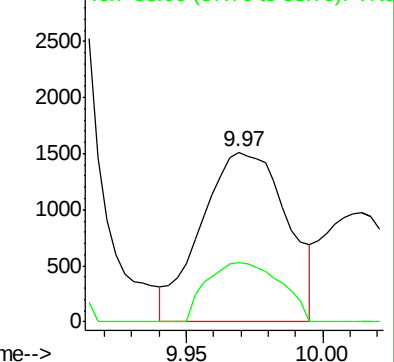
Ion Ratio Lower Upper

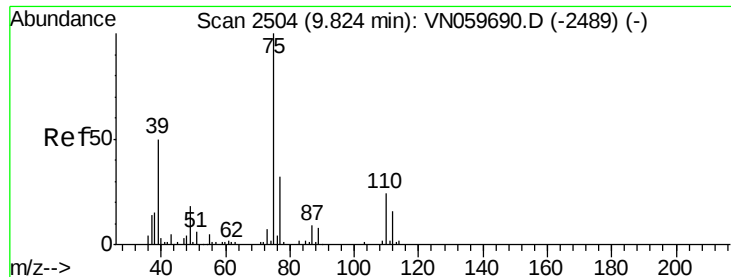
43 100

58 30.2 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VN059703.D (-2456) (-)





#54

cis-1,3-Dichloropropene

Concen: 6.836 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN059703.D

Acq: 14 Jan 2020 13:13

Instrument :

MSVOA_N

ClientSampled :

BU-RO-229

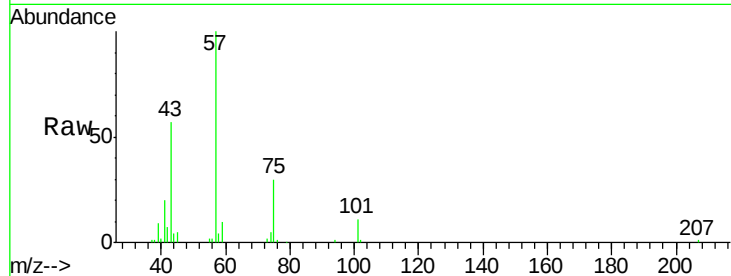
Tgt Ion: 75 Resp: 19729

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

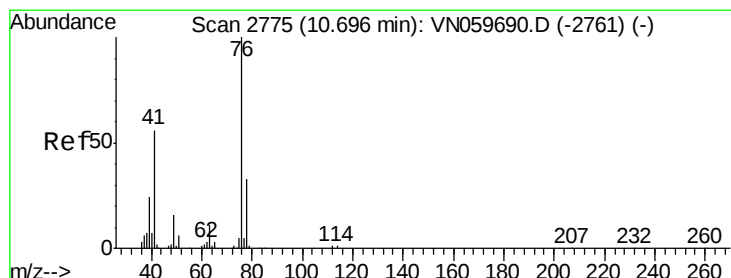
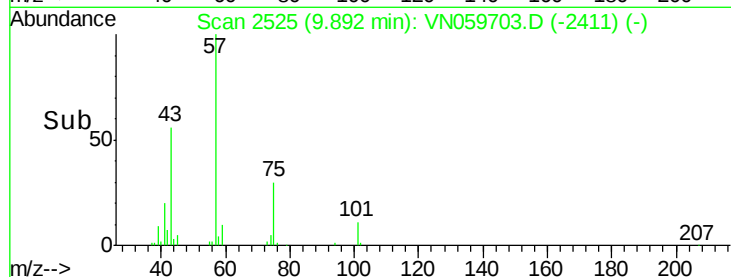
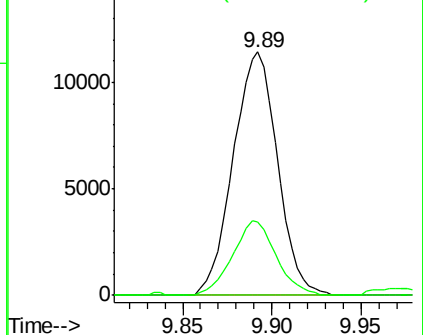
39 30.3 46.1 69.1#



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: 1.196 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN059703.D

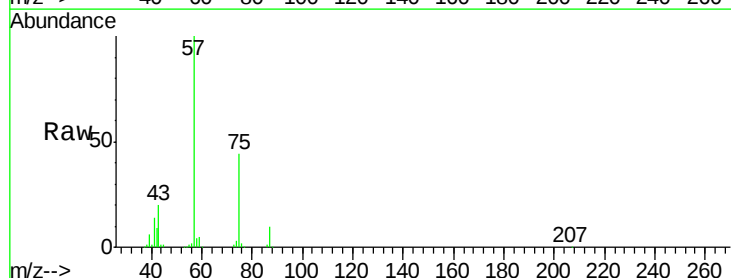
Acq: 14 Jan 2020 13:13

Tgt Ion: 76 Resp: 3318

Ion Ratio Lower Upper

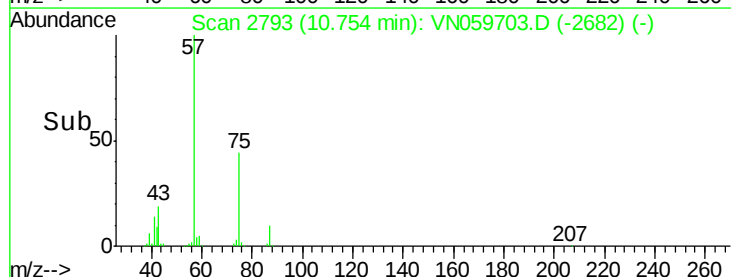
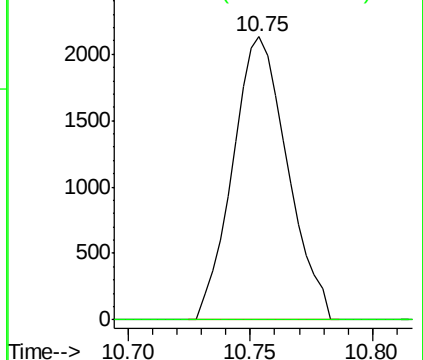
76 100

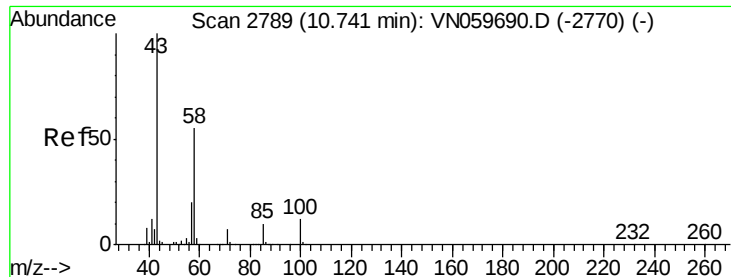
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

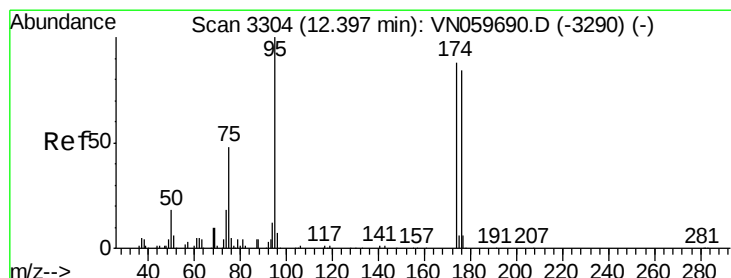
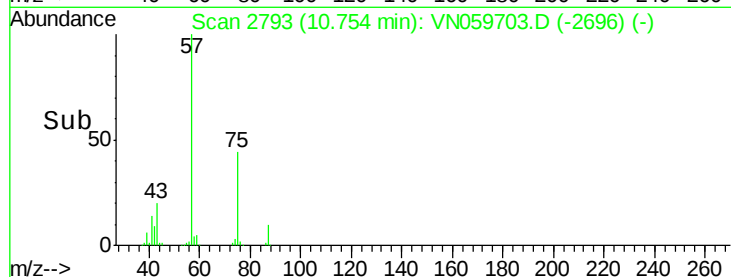
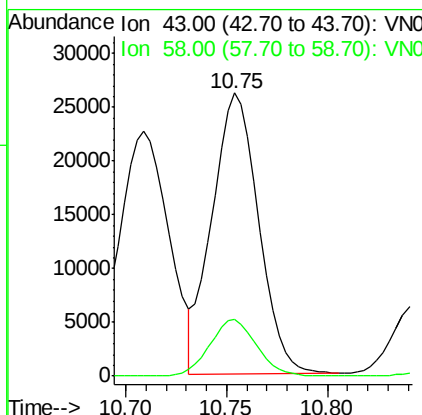
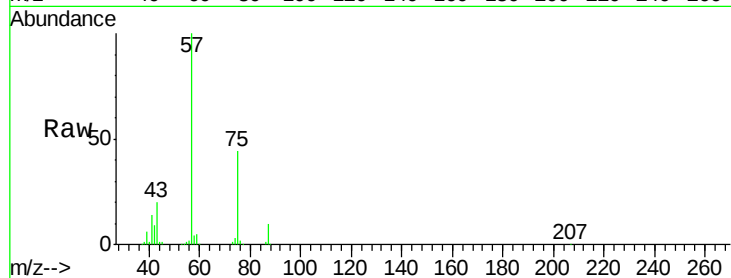




#59
2-Hexanone
Concen: 26.016 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN059703.D
Acq: 14 Jan 2020 13:13

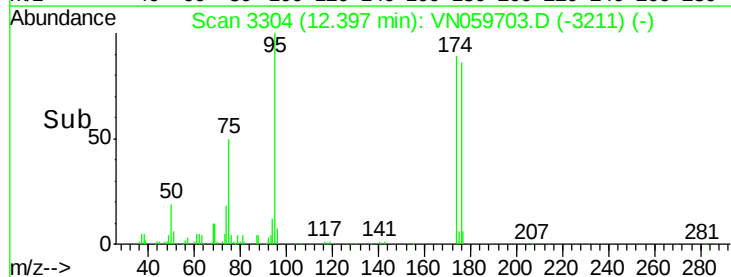
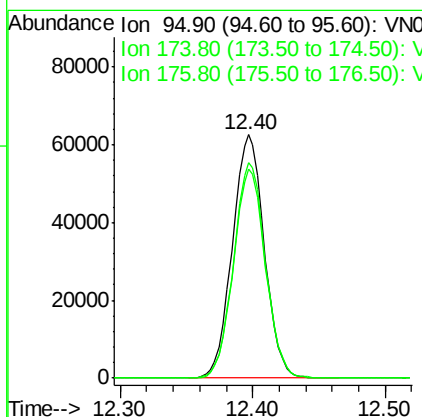
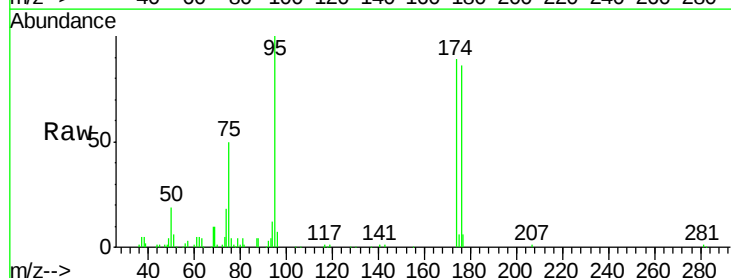
Instrument :
MSVOA_N
ClientSampled :
BU-RO-229

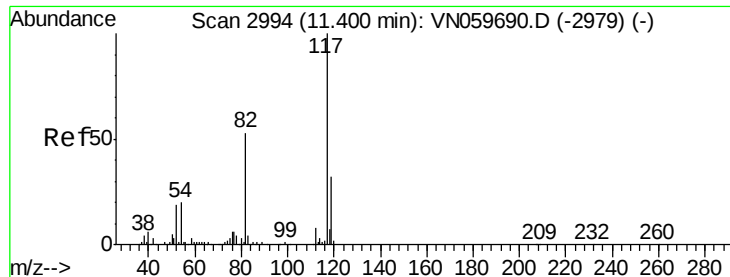
Tgt Ion: 43 Resp: 41855
Ion Ratio Lower Upper
43 100
58 20.2 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 46.585 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN059703.D
Acq: 14 Jan 2020 13:13

Tgt Ion: 95 Resp: 104341
Ion Ratio Lower Upper
95 100
174 88.5 0.0 151.4
176 86.2 0.0 146.0

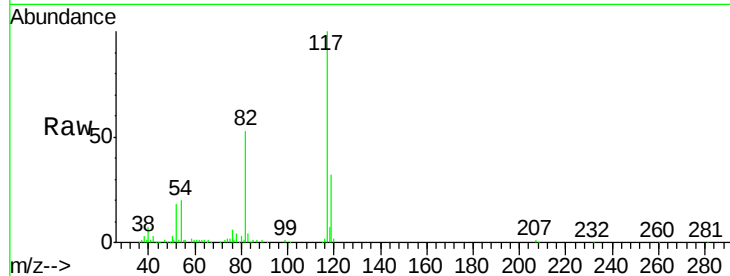




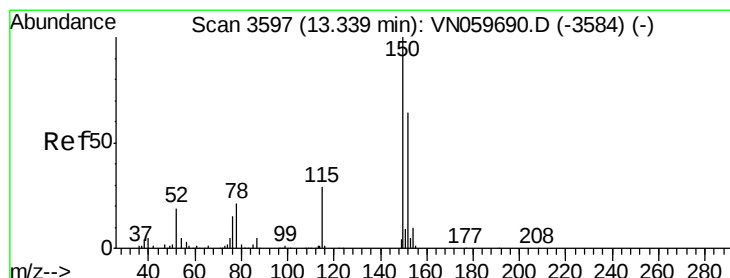
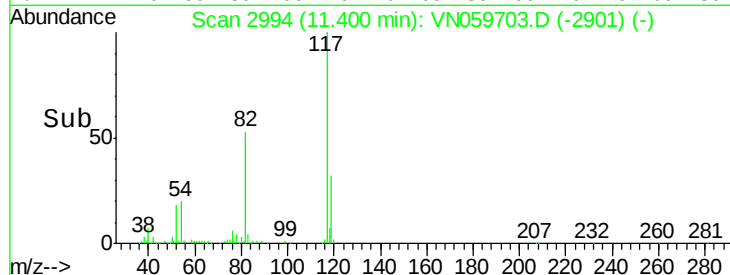
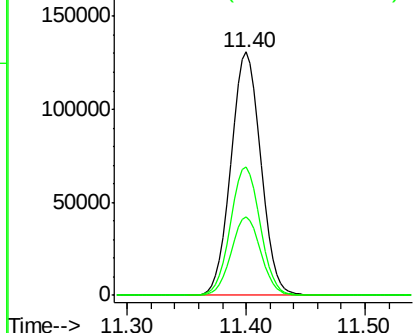
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059703.D
Acq: 14 Jan 2020 13:13

Instrument :
MSVOA_N
ClientSampleId :
BU-RO-229

Tgt Ion:117 Resp: 227614
Ion Ratio Lower Upper
117 100
82 52.6 45.9 68.9
119 32.1 25.5 38.3

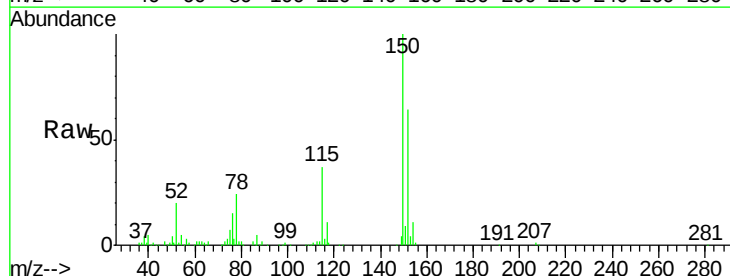


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

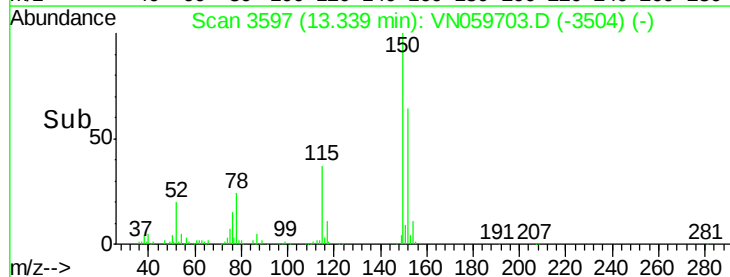
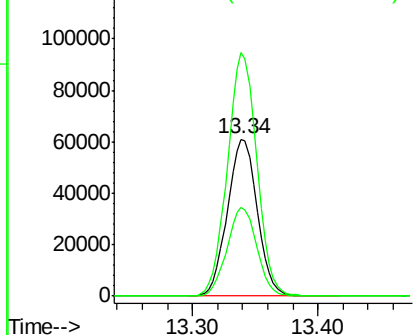


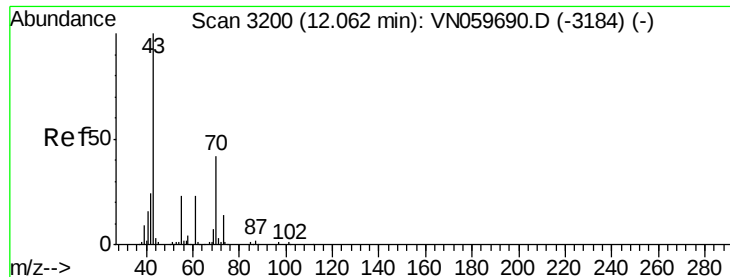
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN059703.D
Acq: 14 Jan 2020 13:13

Tgt Ion:152 Resp: 100727
Ion Ratio Lower Upper
152 100
115 56.3 30.3 90.9
150 153.0 0.0 345.2



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





#74

N-ethyl acetate

Concen: 0.726 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.03 min

Lab File: VN059703.D

Acq: 14 Jan 2020 13:13

Instrument :

MSVOA_N

ClientSampleId :

BU-RO-229

Tgt Ion: 43 Resp: 2081

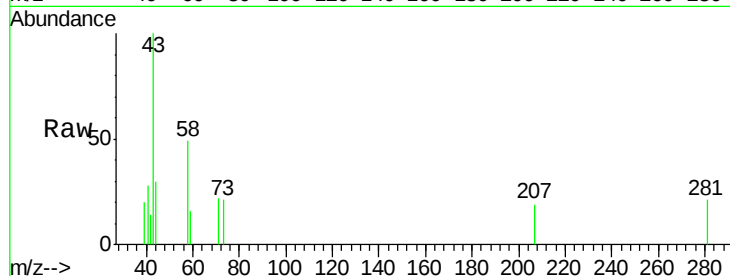
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

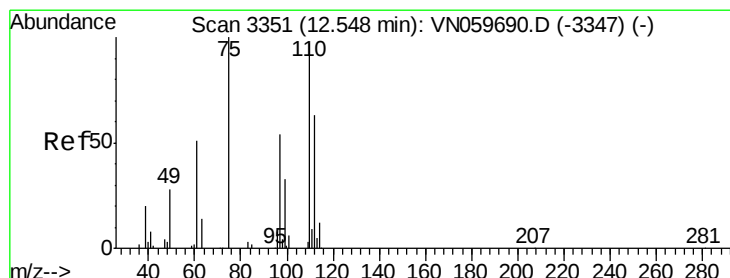
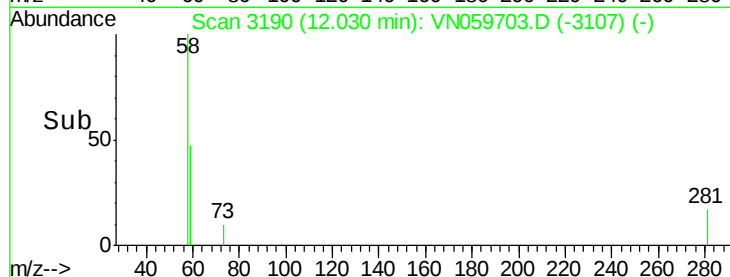
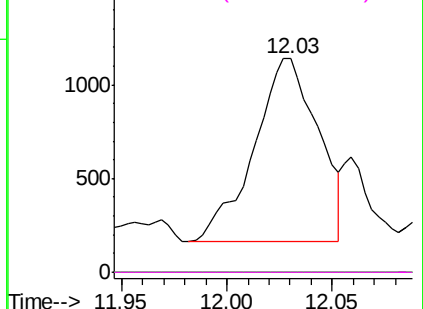


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 30.830 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059703.D

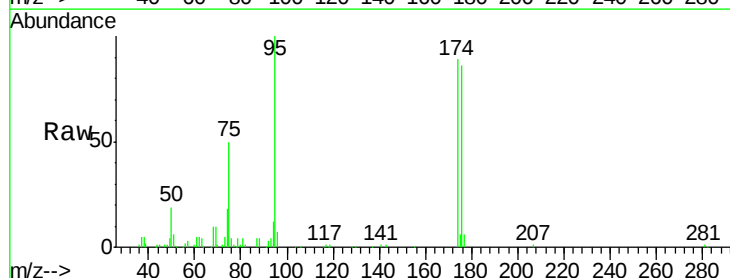
Acq: 14 Jan 2020 13:13

Tgt Ion: 75 Resp: 52261

Ion Ratio Lower Upper

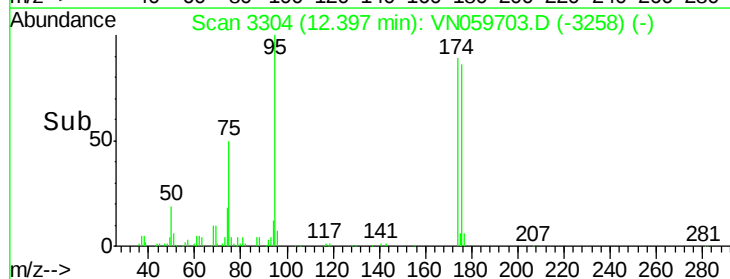
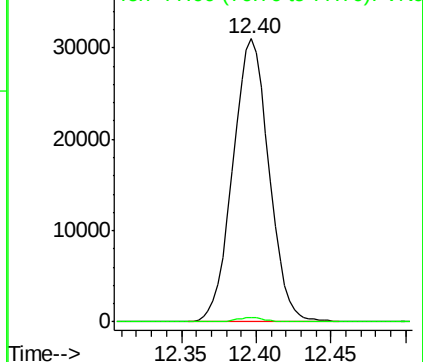
75 100

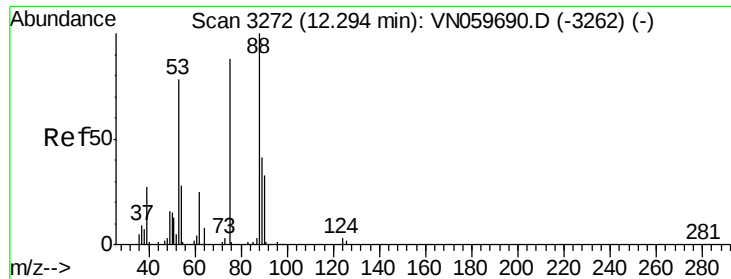
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 66.208 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059703.D

Acq: 14 Jan 2020 13:13

Instrument :

MSVOA_N

ClientSampleId :

BU-RO-229

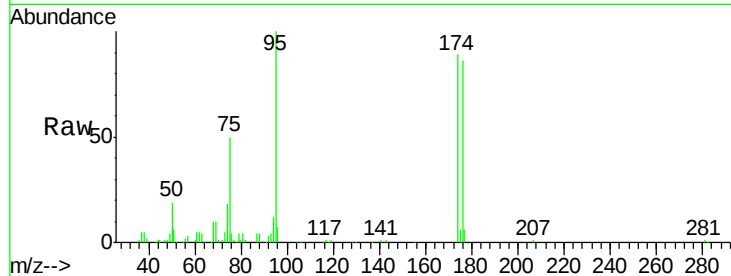
Tgt Ion: 75 Resp: 52261

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

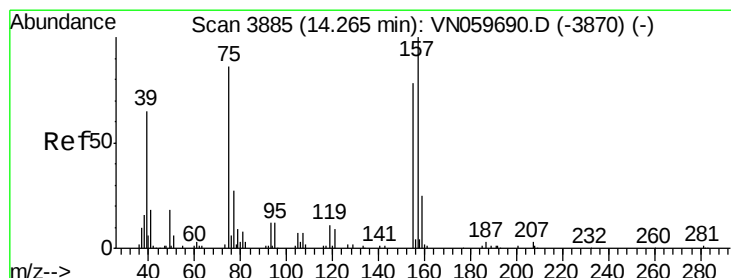
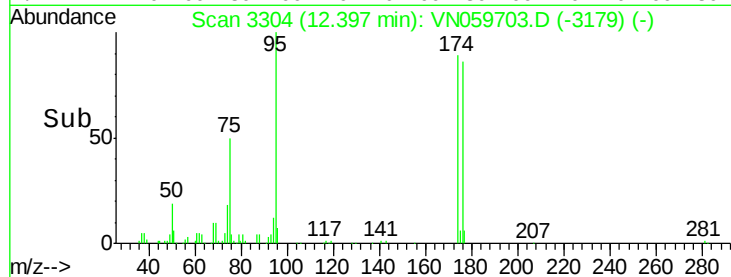
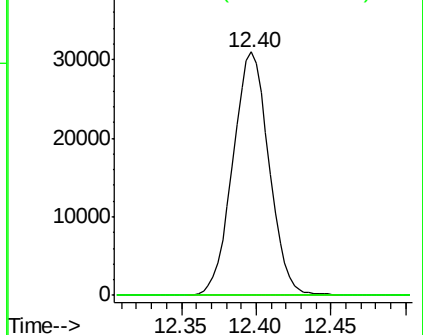
89 0.0 35.4 53.2#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.27 min Scan# 3887

Delta R.T. 0.01 min

Lab File: VN059703.D

Acq: 14 Jan 2020 13:13

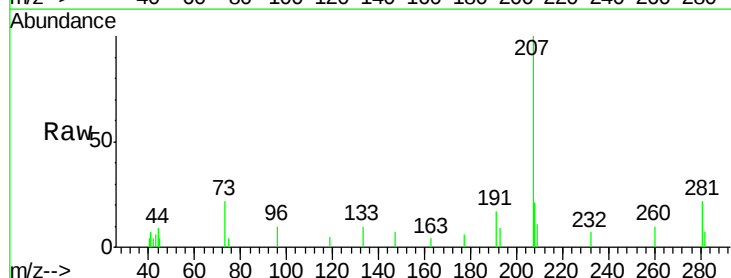
Tgt Ion: 75 Resp: 97

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

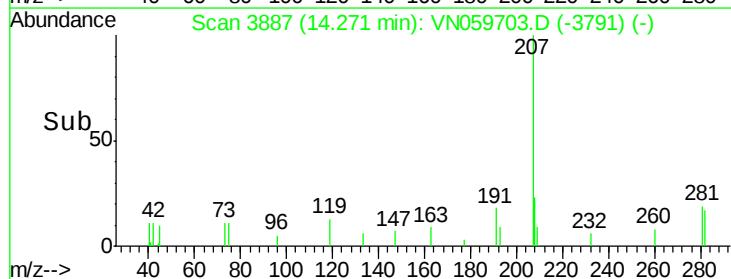
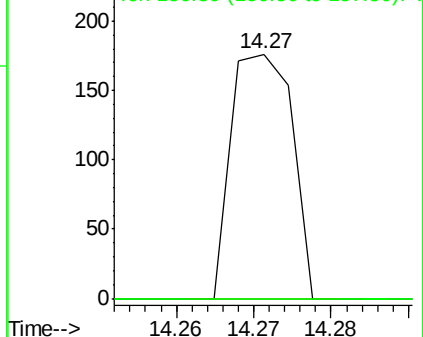
157 0.0 48.4 145.2#

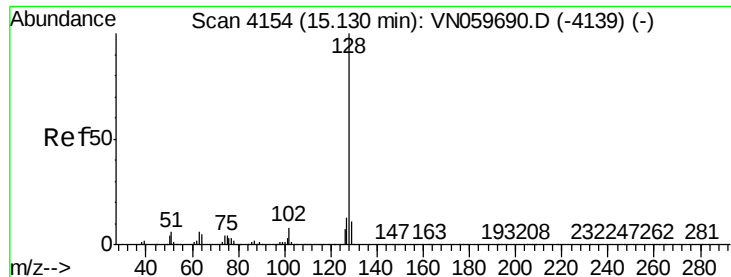


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 0.237 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059703.D

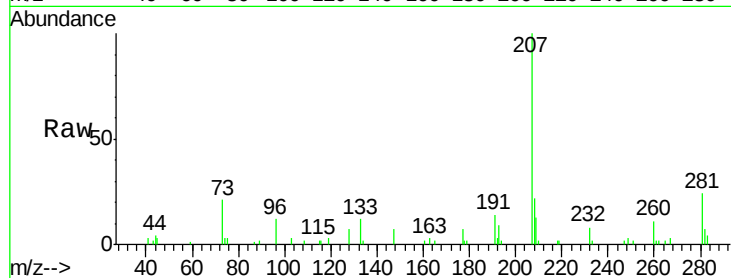
Acq: 14 Jan 2020 13:13

Instrument :

MSVOA_N

ClientSampleId :

BU-RO-229



Tgt Ion:	128	Resp:	1304
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
129	0.0	8.6	12.8#

