

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN013020\
 Data File : VN059932.D
 Acq On : 30 Jan 2020 16:31
 Operator : JC/MD
 Sample : L1309-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BFB

Quant Time: Jan 30 17:20:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	195803	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	298011	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	269940	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	115392	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	106309	48.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.78%	
35) Dibromofluoromethane	7.57	113	90753	51.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.14%	
50) Toluene-d8	10.08	98	353381	51.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.64%	
62) 4-Bromofluorobenzene	12.40	95	119165	48.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.02%	

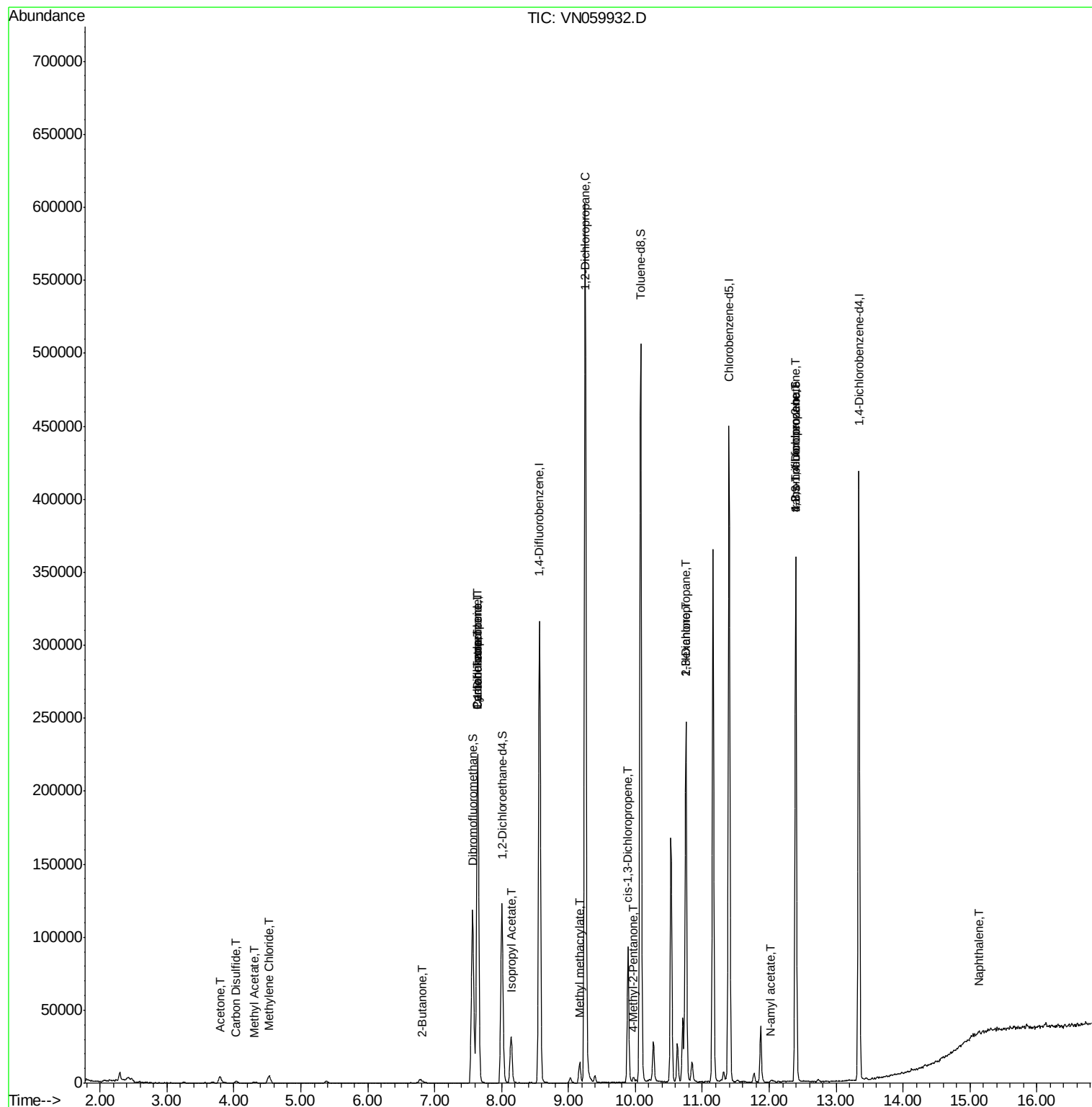
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	8510	1.52	ug/l	97
17) Carbon Disulfide	4.03	76	2395	0.47	ug/l #	75
18) Methyl Acetate	4.31	43	876	0.34	ug/l #	68
20) Methylene Chloride	4.53	84	4100	0.81	ug/l	88
25) 2-Butanone	6.82	43	1861	1.51	ug/l	94
31) Cyclohexane	7.64	56	3681	1.14	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	13887	5.35	ug/l #	49
38) Carbon Tetrachloride	7.64	117	17517	6.21	ug/l #	17
43) Isopropyl Acetate	8.14	43	38676	9.24	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	716	0.37	ug/l #	44
48) Methyl methacrylate	9.17	41	2058	1.10	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2980	1.23	ug/l	91
54) cis-1,3-Dichloropropene	9.89	75	17208	5.38	ug/l #	58
57) 1,3-Dichloropropane	10.75	76	2588	0.84	ug/l #	42
59) 2-Hexanone	10.75	43	36154	20.28	ug/l #	56
74) N-amyl acetate	12.03	43	2565	0.78	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	62078	31.97	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	62078	68.65	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.47	75	124	Below Cal	#	6
95) Naphthalene	15.13	128	2546	0.40	ug/l #	88

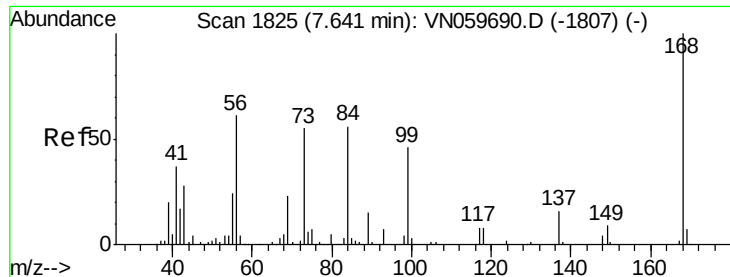
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jan 18 03:09:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059932.D

Acq: 30 Jan 2020 16:31

Instrument :

MSVOA_N

ClientSampled :

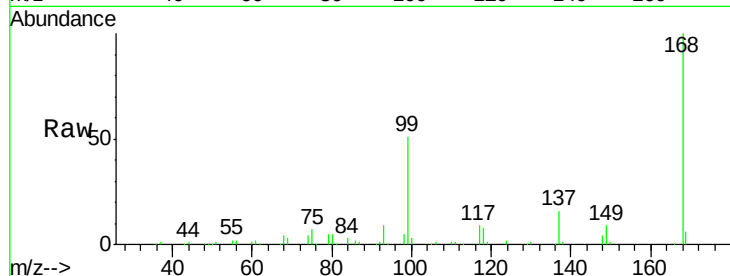
BFB

Tgt Ion: 168 Resp: 195803

Ion Ratio Lower Upper

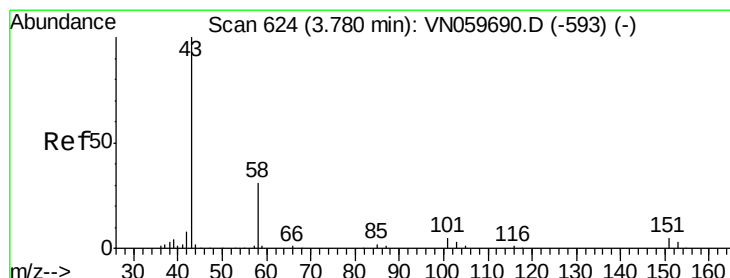
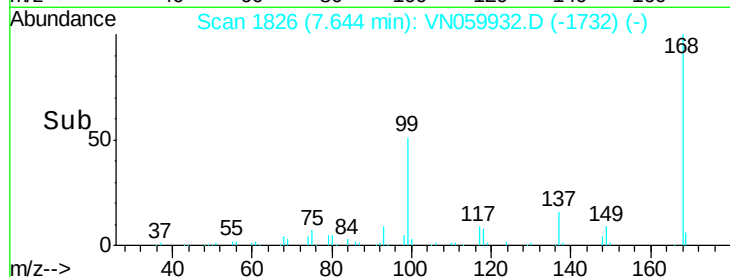
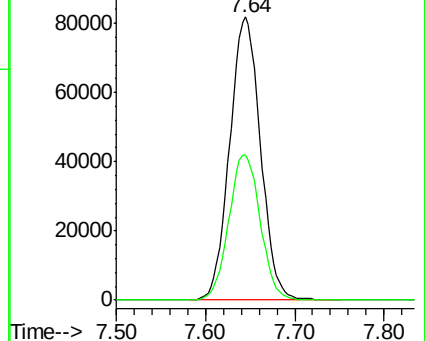
168 100

99 51.1 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 1.52 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN059932.D

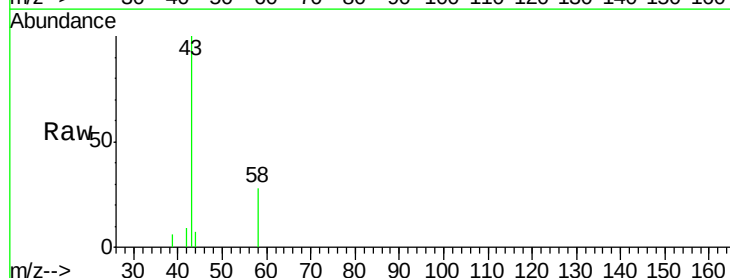
Acq: 30 Jan 2020 16:31

Tgt Ion: 43 Resp: 8510

Ion Ratio Lower Upper

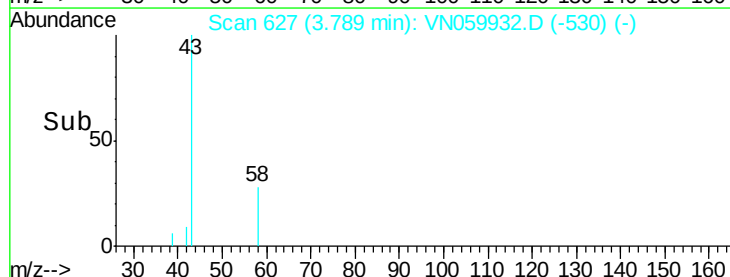
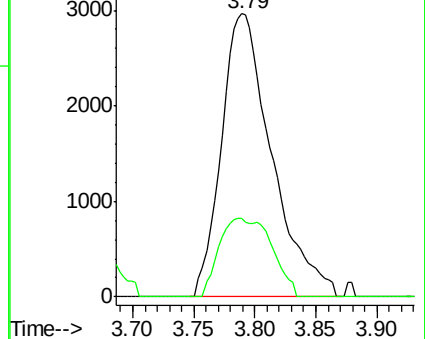
43 100

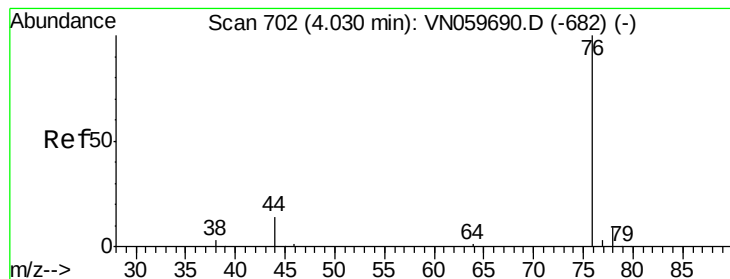
58 27.7 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: 0.47 ug/l

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN059932.D

Acq: 30 Jan 2020 16:31

Instrument :

MSVOA_N

ClientSampled :

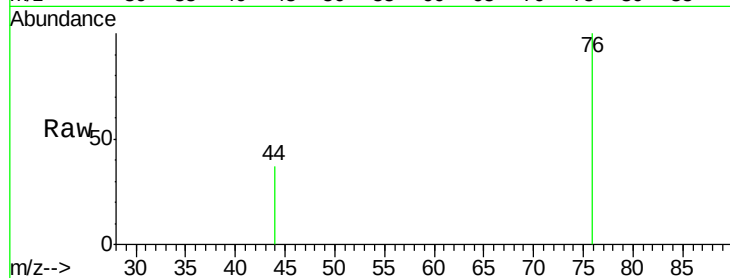
BFB

Tgt Ion: 76 Resp: 2395

Ion Ratio Lower Upper

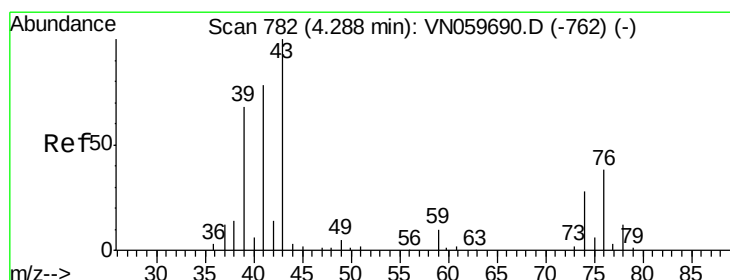
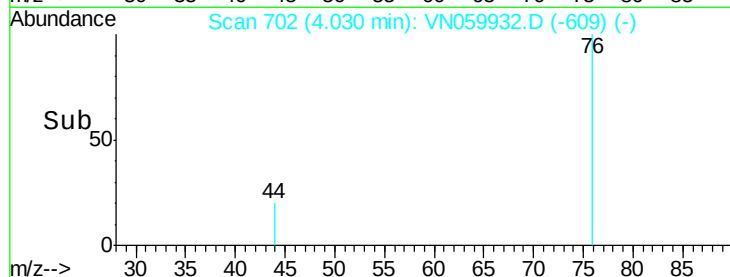
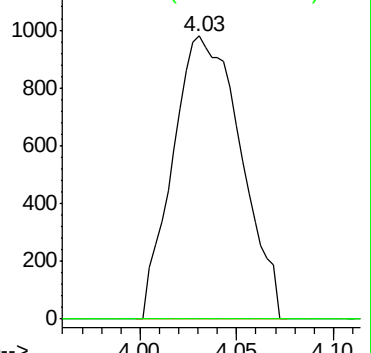
76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 0.34 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.02 min

Lab File: VN059932.D

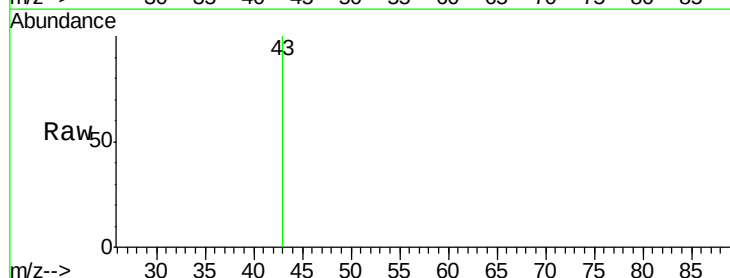
Acq: 30 Jan 2020 16:31

Tgt Ion: 43 Resp: 876

Ion Ratio Lower Upper

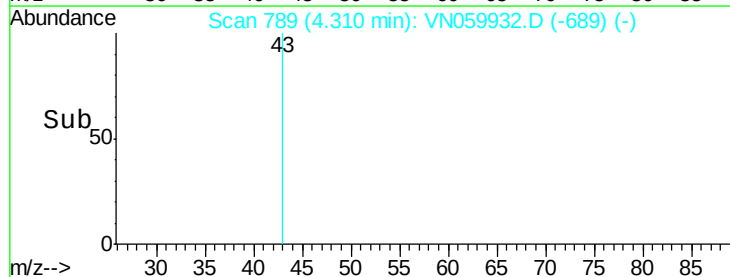
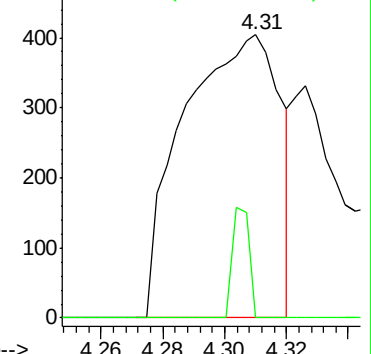
43 100

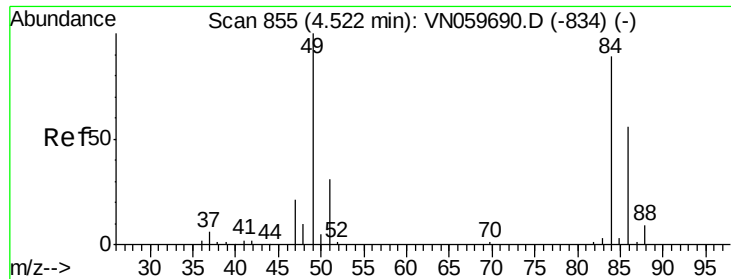
74 6.7 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

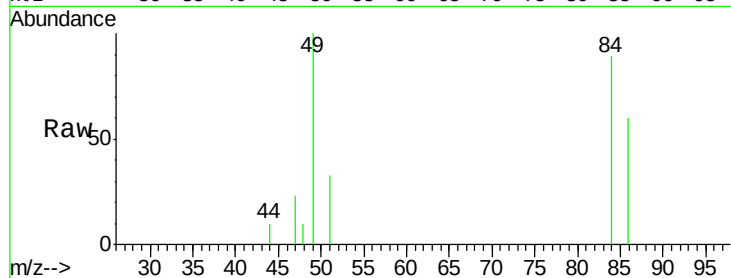




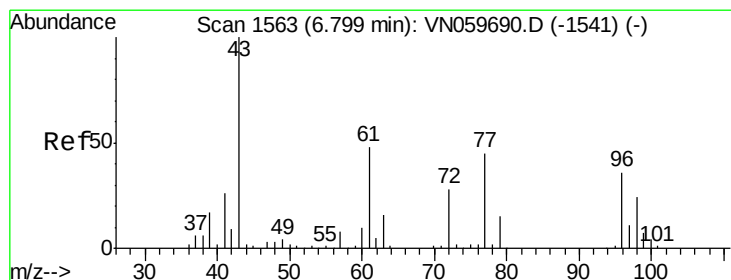
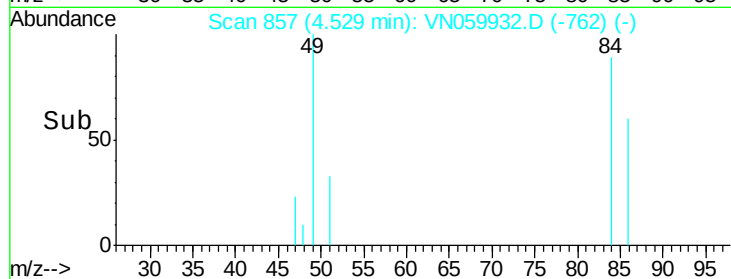
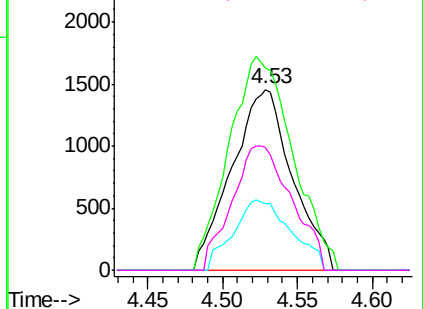
#20
Methylene Chloride
Concen: 0.81 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN059932.D
Acq: 30 Jan 2020 16:31

Instrument :
MSVOA_N
ClientSampled :
BFB

Tgt Ion: 84 Resp: 4100
Ion Ratio Lower Upper
84 100
49 112.3 106.6 160.0
51 37.1 31.9 47.9
86 67.8 50.8 76.2

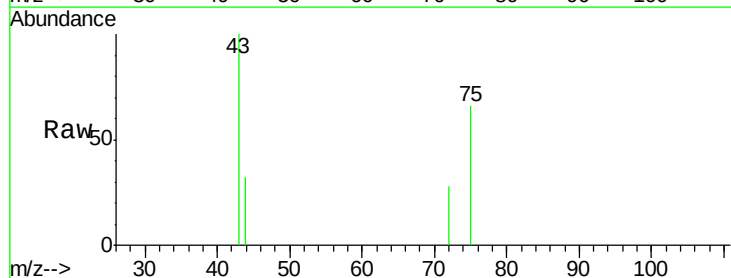


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

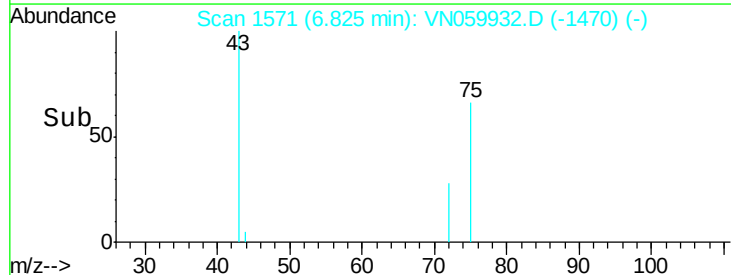
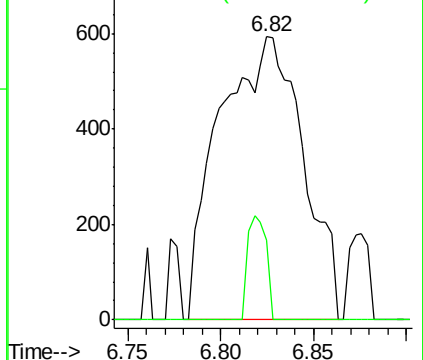


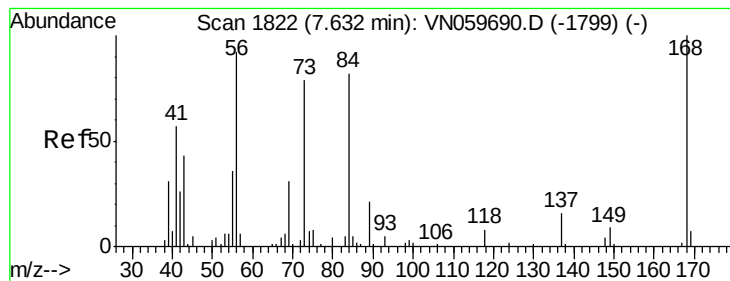
#25
2-Butanone
Concen: 1.51 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.03 min
Lab File: VN059932.D
Acq: 30 Jan 2020 16:31

Tgt Ion: 43 Resp: 1861
Ion Ratio Lower Upper
43 100
72 28.0 19.9 29.9



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0





#31

Cyclohexane

Concen: 1.14 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN059932.D

Acq: 30 Jan 2020 16:31

Instrument :

MSVOA_N

ClientSampled :

BFB

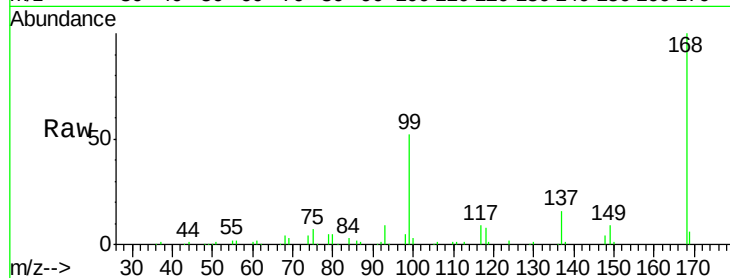
Tgt Ion: 56 Resp: 3681

Ion Ratio Lower Upper

56 100

69 168.3 26.5 39.7#

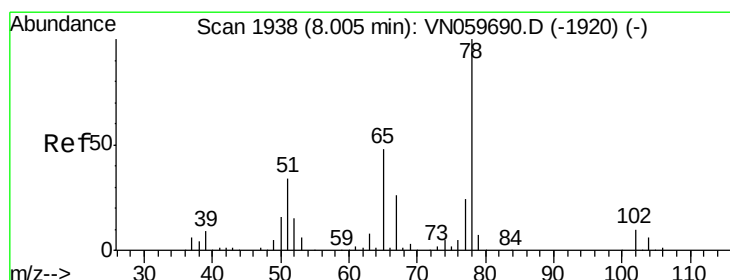
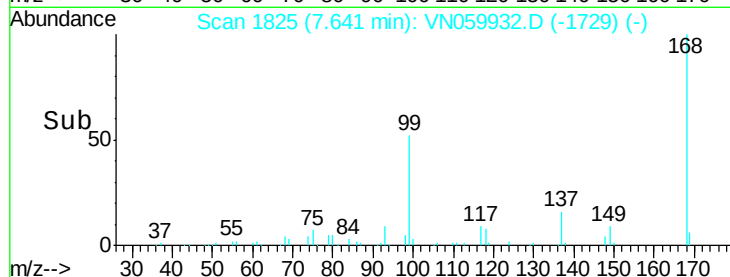
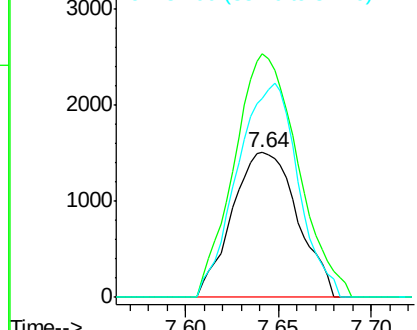
84 137.4 65.3 97.9#



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: 48.89 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN059932.D

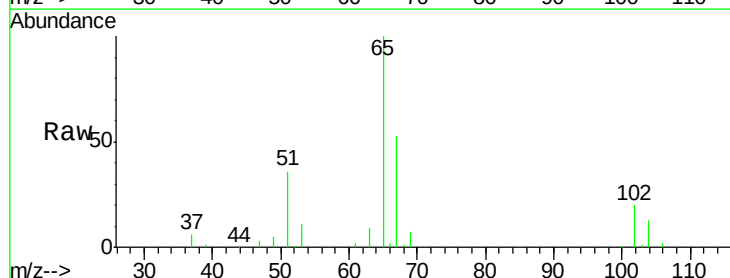
Acq: 30 Jan 2020 16:31

Tgt Ion: 65 Resp: 106309

Ion Ratio Lower Upper

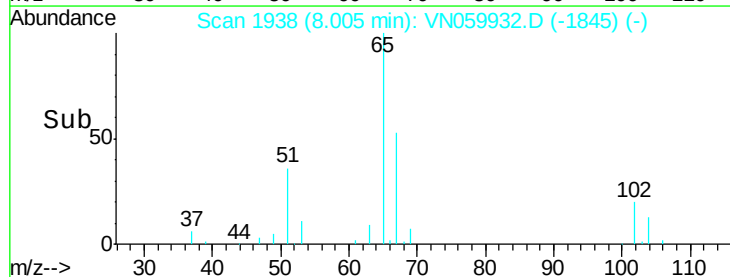
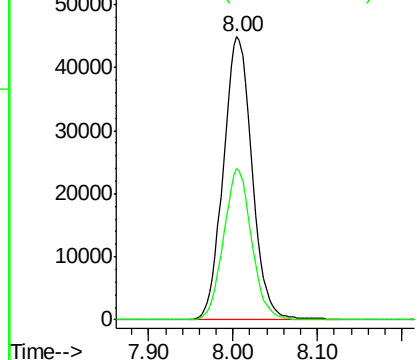
65 100

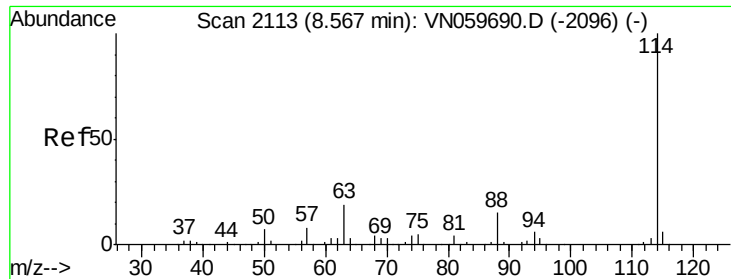
67 51.9 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN059932.D

Acq: 30 Jan 2020 16:31

Instrument :

MSVOA_N

ClientSampleId :

BFB

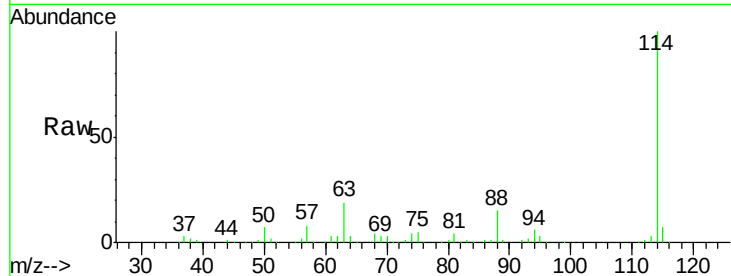
Tgt Ion:114 Resp: 298011

Ion Ratio Lower Upper

114 100

63 19.4 0.0 43.6

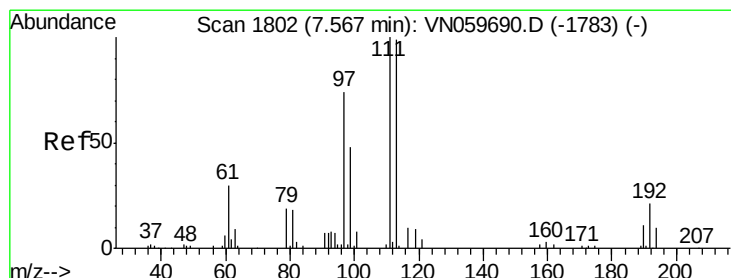
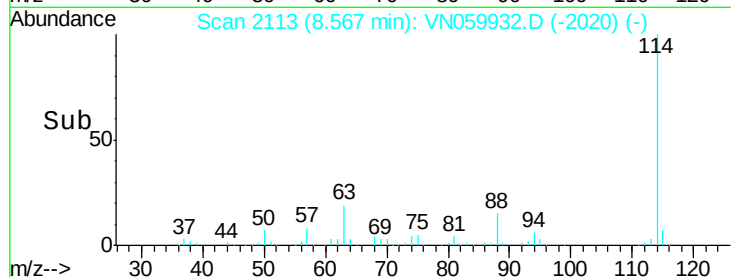
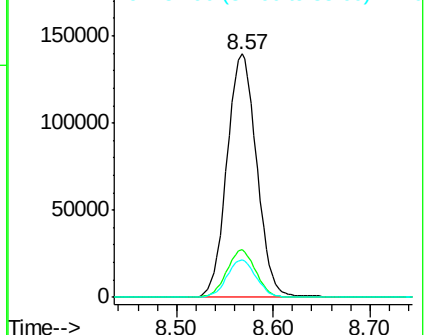
88 15.4 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 51.07 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN059932.D

Acq: 30 Jan 2020 16:31

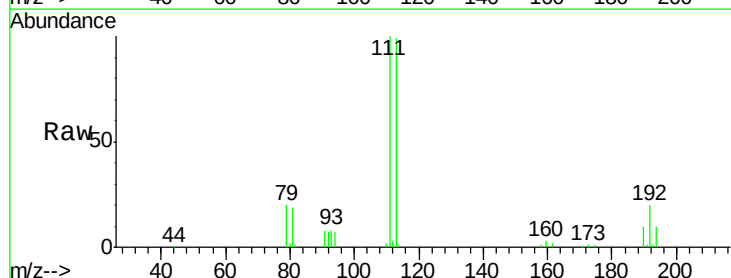
Tgt Ion:113 Resp: 90753

Ion Ratio Lower Upper

113 100

111 100.9 83.5 125.3

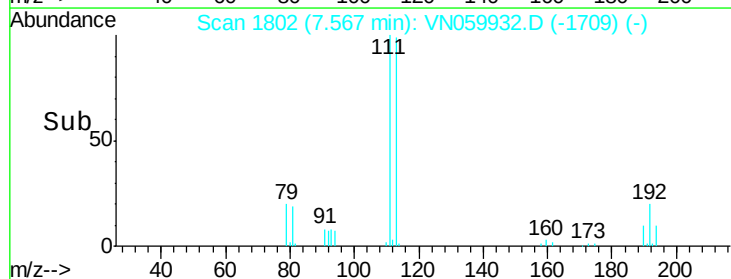
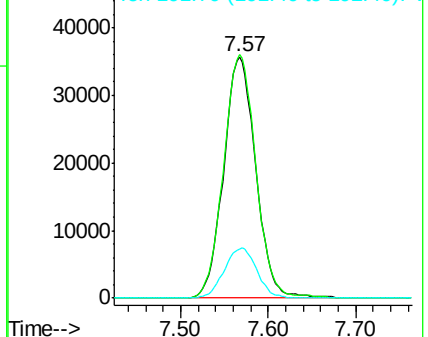
192 21.0 15.4 23.2

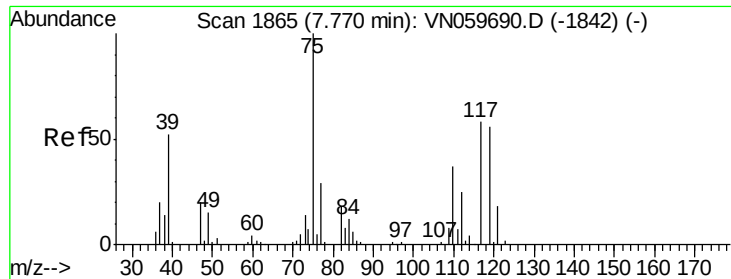


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

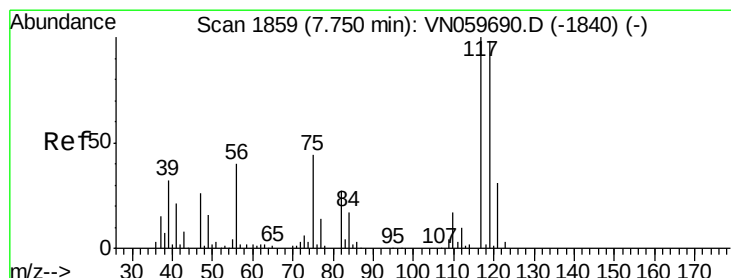
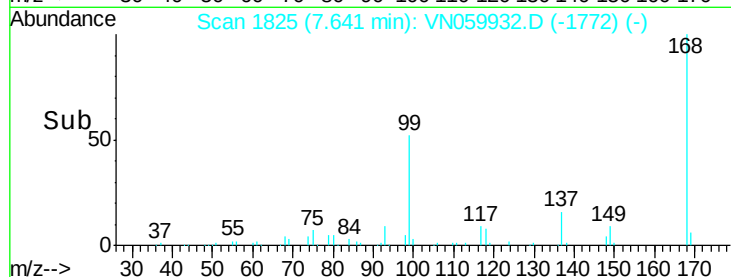
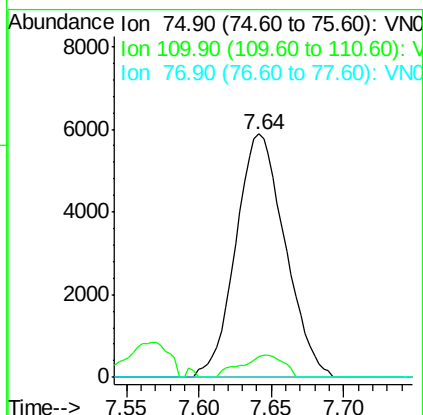
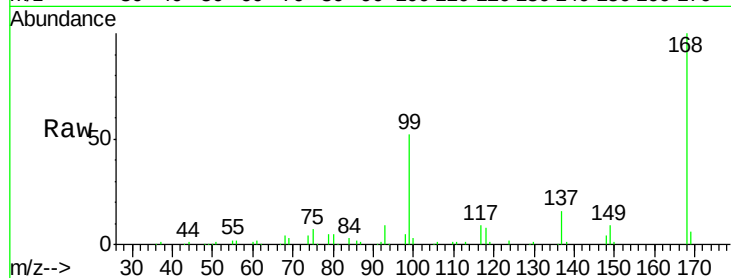




#36
 1,1-Dichloropropene
 Concen: 5.35 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059932.D
 Acq: 30 Jan 2020 16:31

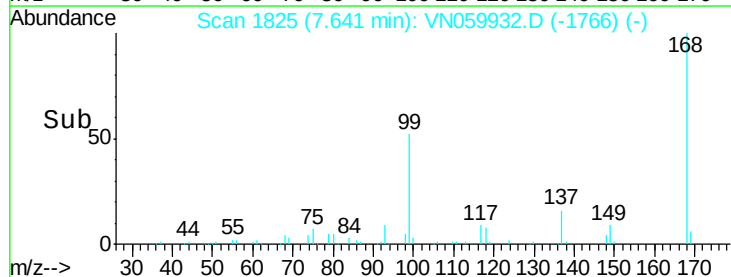
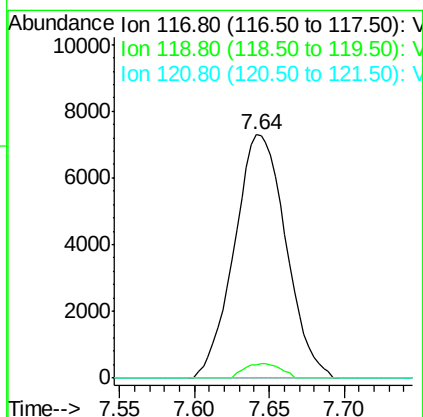
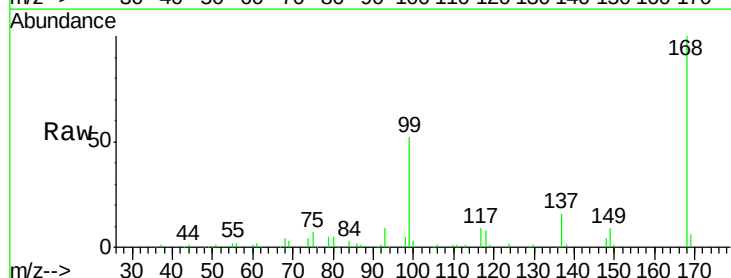
Instrument :
 MSVOA_N
 ClientSampleId :
 BFB

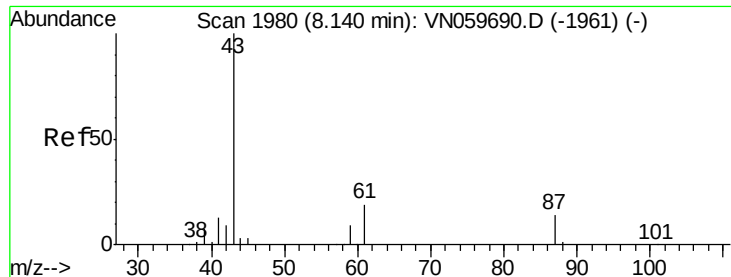
Tgt Ion: 75 Resp: 13887
 Ion Ratio Lower Upper
 75 100
 110 7.8 16.6 49.7#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 6.21 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN059932.D
 Acq: 30 Jan 2020 16:31

Tgt Ion: 117 Resp: 17517
 Ion Ratio Lower Upper
 117 100
 119 5.7 76.5 114.7#
 121 0.0 25.1 37.7#





#43

Isopropyl Acetate

Concen: 9.24 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059932.D

Acq: 30 Jan 2020 16:31

Instrument :

MSVOA_N

ClientSampleId :

BFB

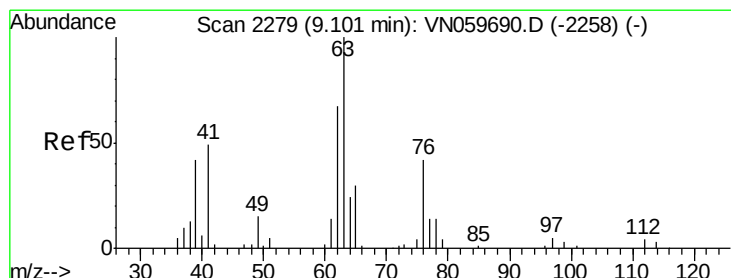
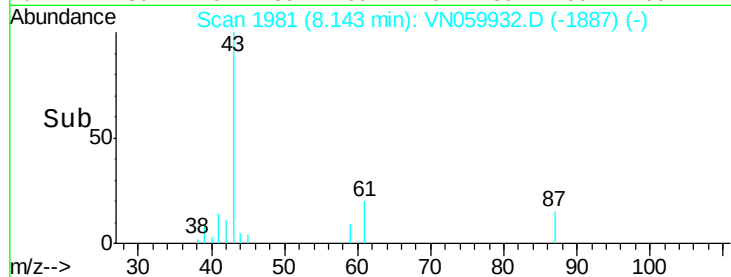
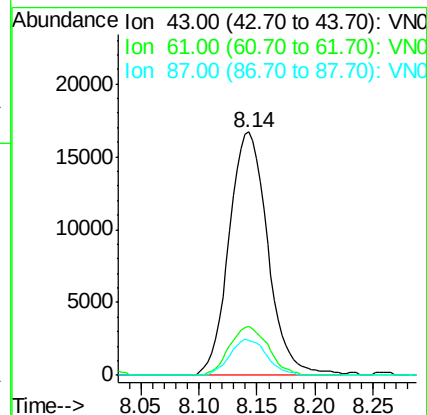
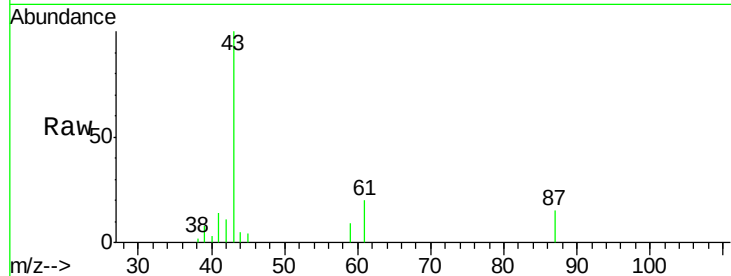
Tgt Ion: 43 Resp: 38676

Ion Ratio Lower Upper

43 100

61 20.1 20.2 30.2#

87 14.0 9.5 14.3



#45

1,2-Dichloropropane

Concen: 0.37 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN059932.D

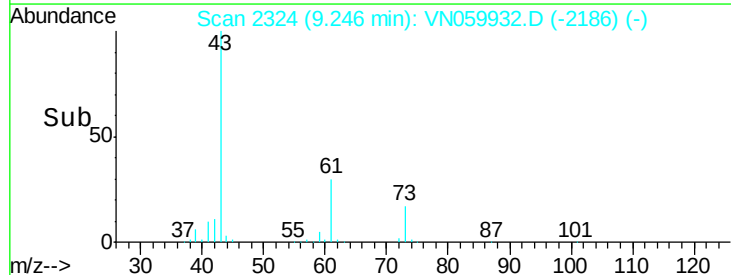
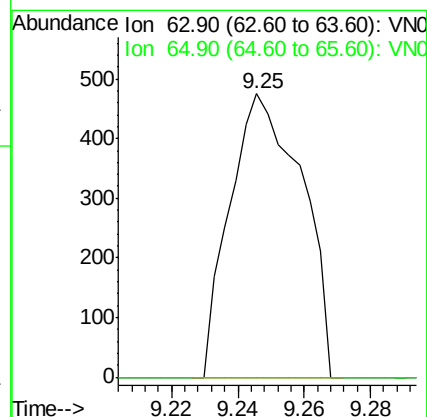
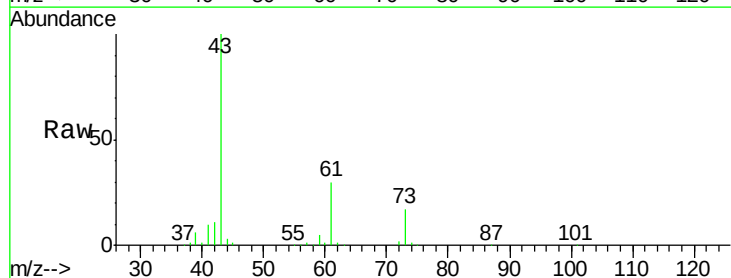
Acq: 30 Jan 2020 16:31

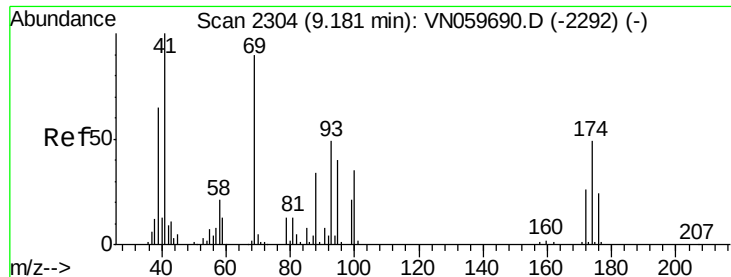
Tgt Ion: 63 Resp: 716

Ion Ratio Lower Upper

63 100

65 0.0 24.9 37.3#

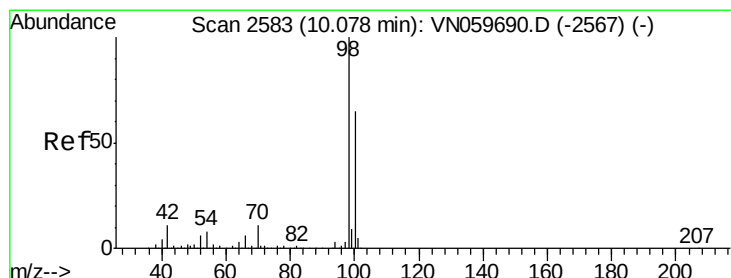
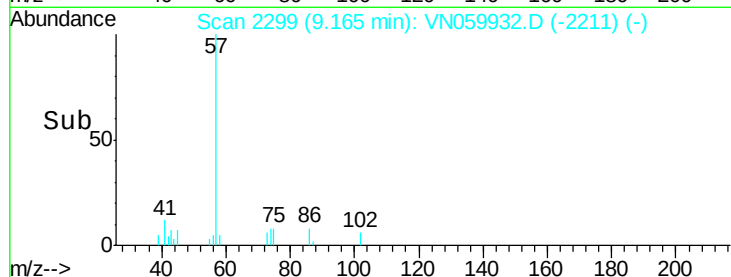
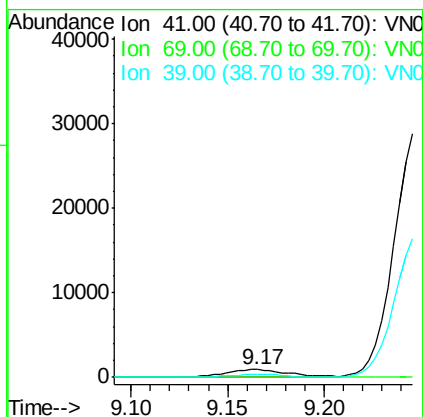
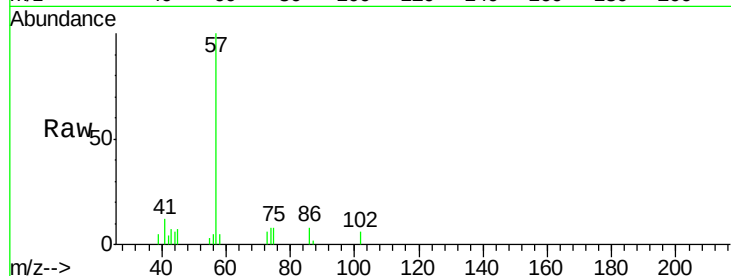




#48
Methyl methacrylate
Concen: 1.10 ug/l
RT: 9.17 min Scan# 2299
Delta R.T. -0.02 min
Lab File: VN059932.D
Acq: 30 Jan 2020 16:31

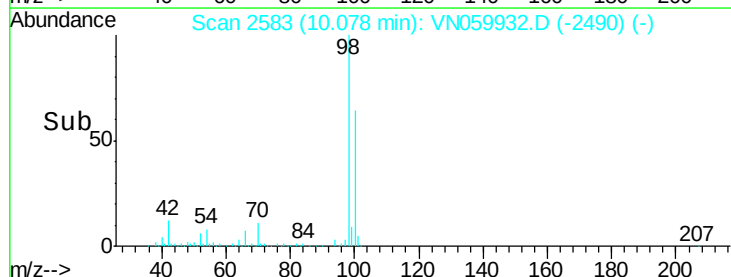
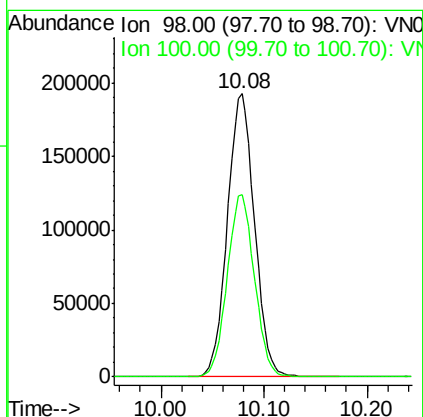
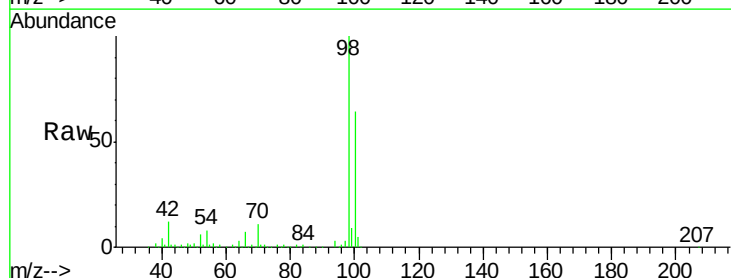
Instrument :
MSVOA_N
ClientSampleId :
BFB

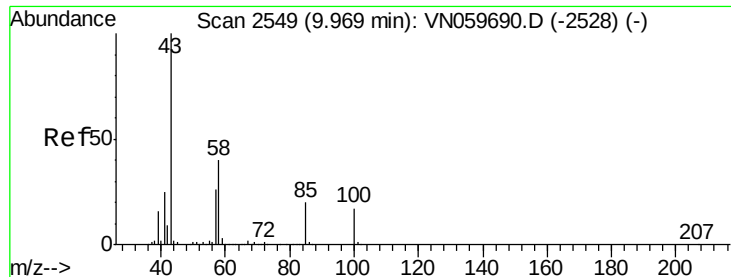
Tgt Ion: 41 Resp: 2058
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#



#50
Toluene-d8
Concen: 51.32 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059932.D
Acq: 30 Jan 2020 16:31

Tgt Ion: 98 Resp: 353381
Ion Ratio Lower Upper
98 100
100 64.7 51.2 76.8

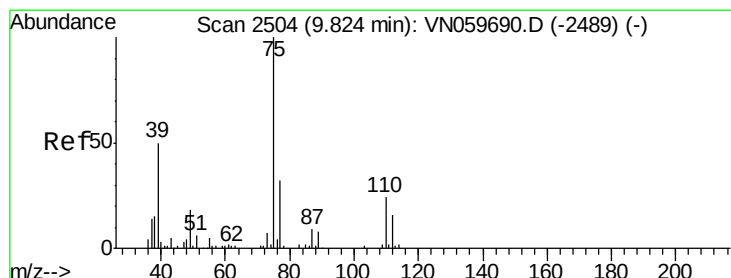
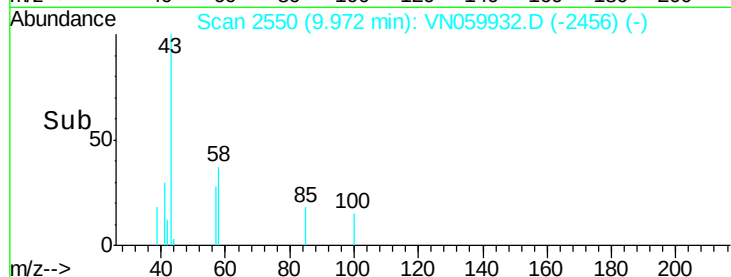
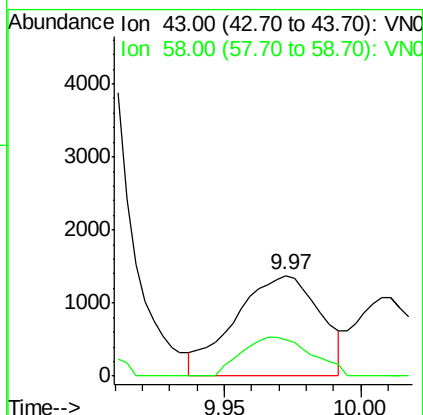
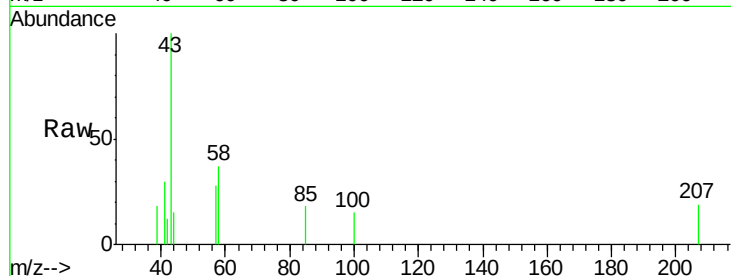




#51
 4-Methyl-2-Pentanone
 Concen: 1.23 ug/l
 RT: 9.97 min Scan# 2550
 Delta R.T. 0.00 min
 Lab File: VN059932.D
 Acq: 30 Jan 2020 16:31

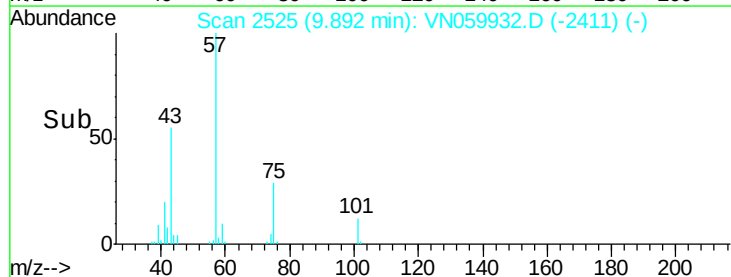
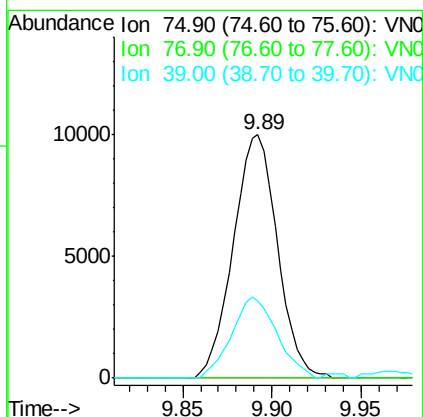
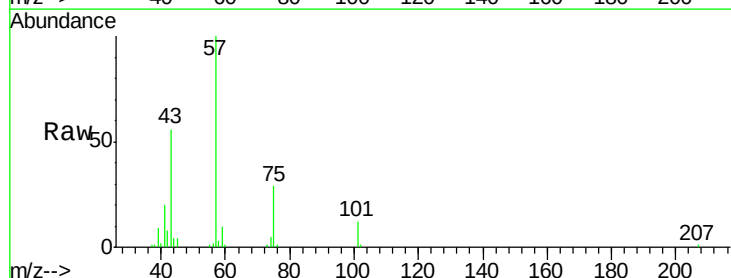
Instrument :
 MSVOA_N
 ClientSampled :
 BFB

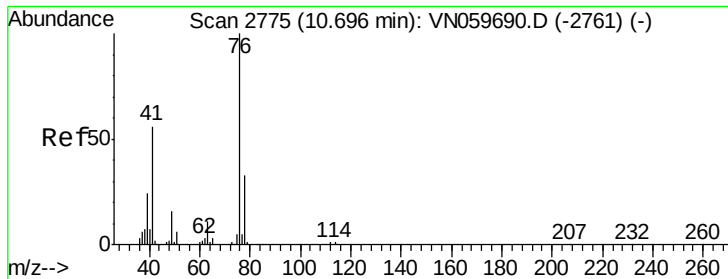
Tgt Ion: 43 Resp: 2980
 Ion Ratio Lower Upper
 43 100
 58 32.0 29.8 44.8



#54
 cis-1,3-Dichloropropene
 Concen: 5.38 ug/l
 RT: 9.89 min Scan# 2525
 Delta R.T. 0.07 min
 Lab File: VN059932.D
 Acq: 30 Jan 2020 16:31

Tgt Ion: 75 Resp: 17208
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.1 37.7#
 39 32.0 46.1 69.1#





#57

1,3-Dichloropropane

Concen: 0.84 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN059932.D

Acq: 30 Jan 2020 16:31

Instrument :

MSVOA_N

ClientSampled :

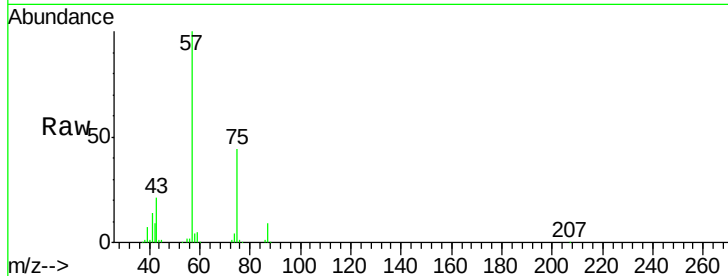
BFB

Tgt Ion: 76 Resp: 2588

Ion Ratio Lower Upper

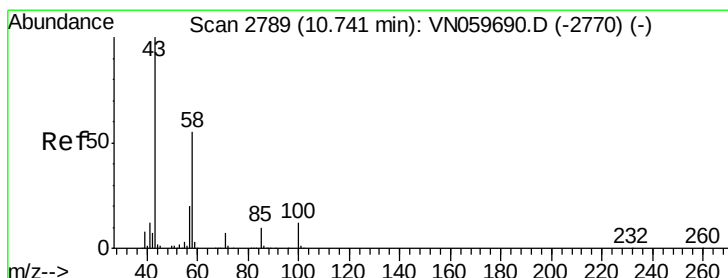
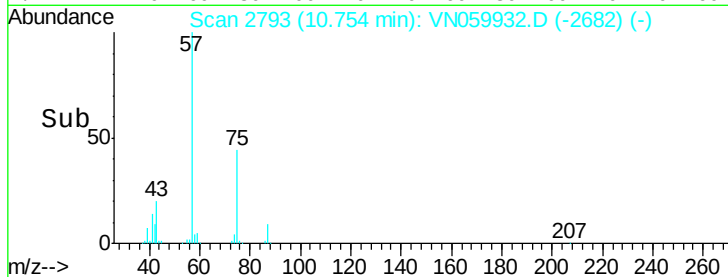
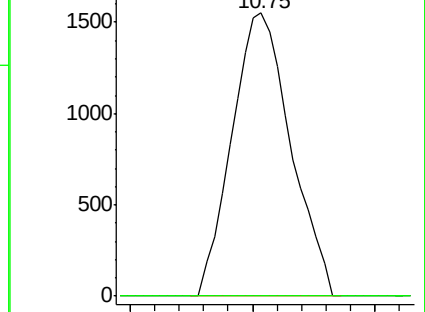
76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN059932.D (-2682) (-)

Ion 77.90 (77.60 to 78.60): VN059932.D (-2682) (-)



#59

2-Hexanone

Concen: 20.28 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN059932.D

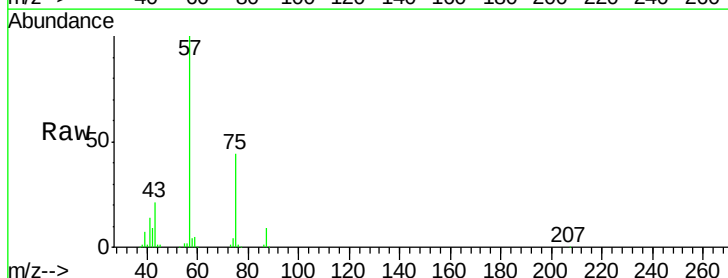
Acq: 30 Jan 2020 16:31

Tgt Ion: 43 Resp: 36154

Ion Ratio Lower Upper

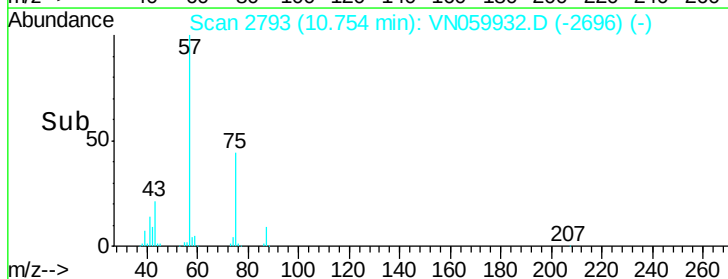
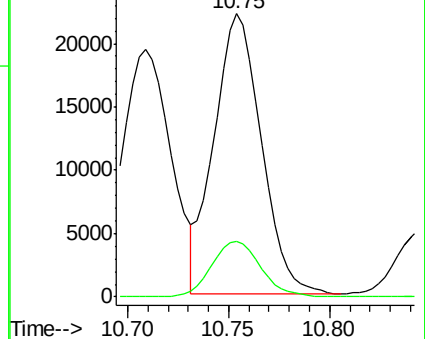
43 100

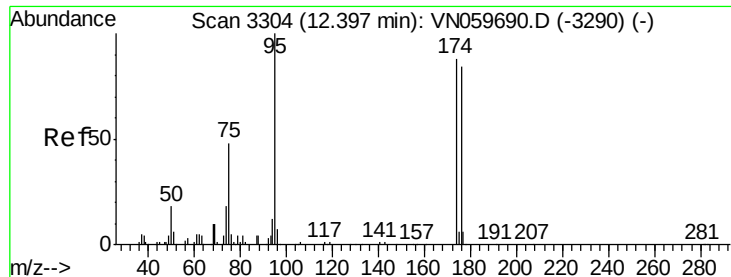
58 20.4 25.8 77.3#



Abundance Ion 43.00 (42.70 to 43.70): VN059932.D (-2696) (-)

Ion 58.00 (57.70 to 58.70): VN059932.D (-2696) (-)





#62

4-Bromofluorobenzene

Concen: 48.01 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN059932.D

Acq: 30 Jan 2020 16:31

Instrument :

MSVOA_N

ClientSampled :

BFB

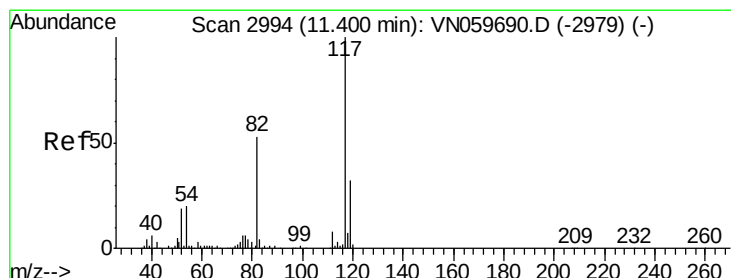
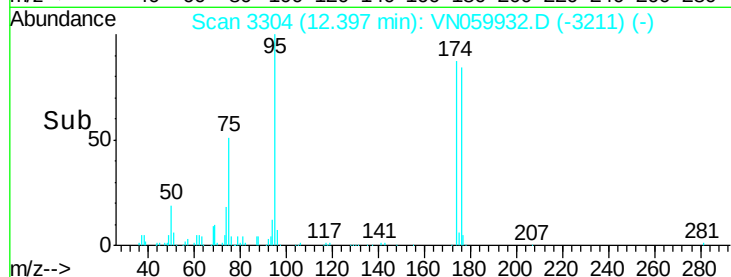
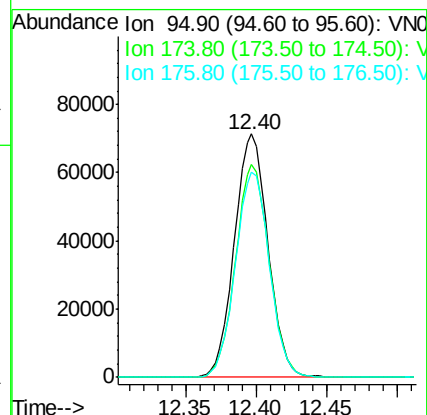
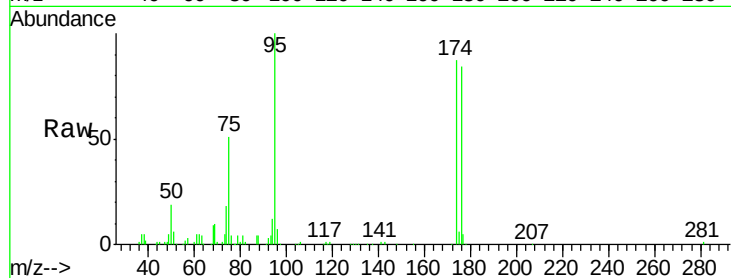
Tgt Ion: 95 Resp: 119165

Ion Ratio Lower Upper

95 100

174 87.5 0.0 151.4

176 85.4 0.0 146.0



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN059932.D

Acq: 30 Jan 2020 16:31

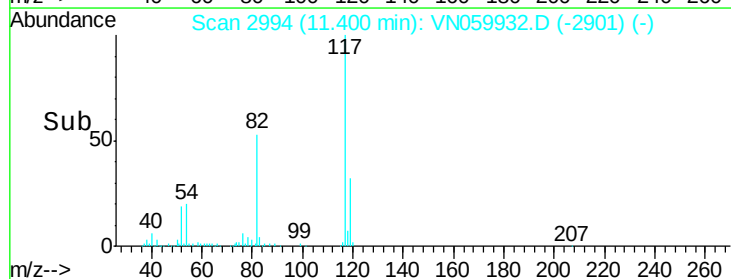
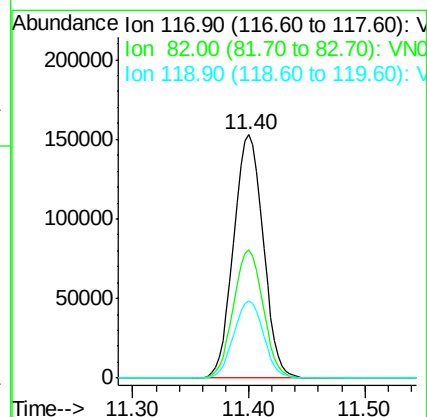
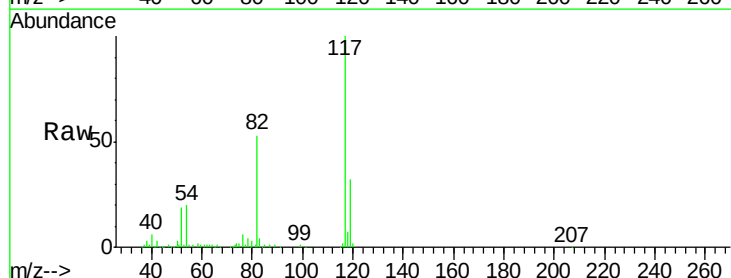
Tgt Ion: 117 Resp: 269940

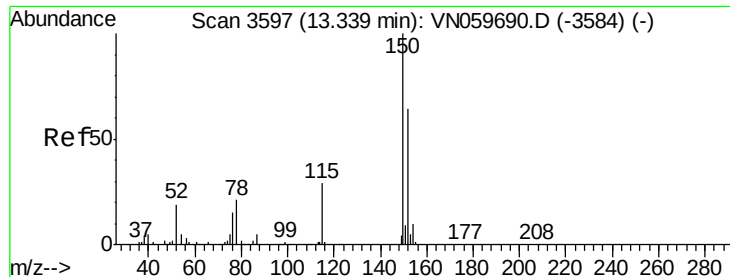
Ion Ratio Lower Upper

117 100

82 52.5 45.9 68.9

119 31.6 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN059932.D

Acq: 30 Jan 2020 16:31

Instrument :

MSVOA_N

ClientSampled :

BFB

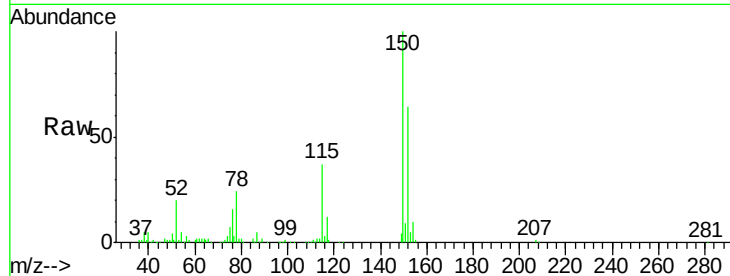
Tgt Ion:152 Resp: 115392

Ion Ratio Lower Upper

152 100

115 57.6 30.3 90.9

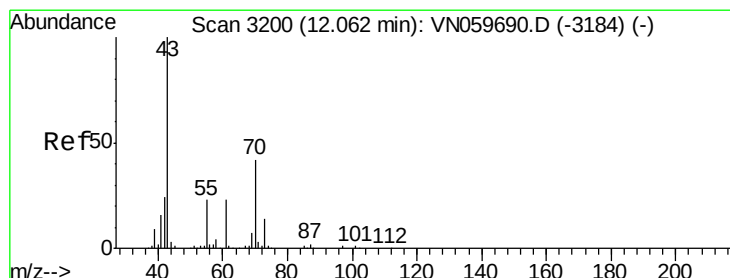
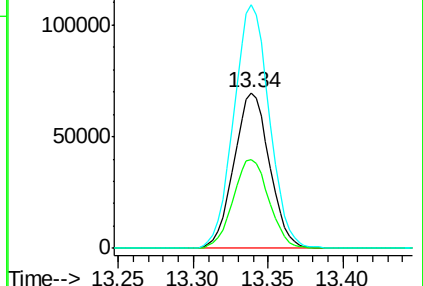
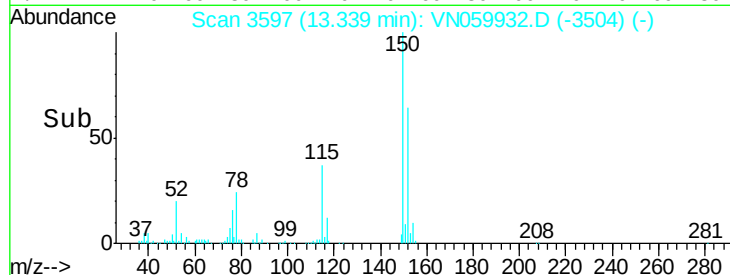
150 156.9 0.0 345.2



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: 0.78 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN059932.D

Acq: 30 Jan 2020 16:31

Tgt Ion: 43 Resp: 2565

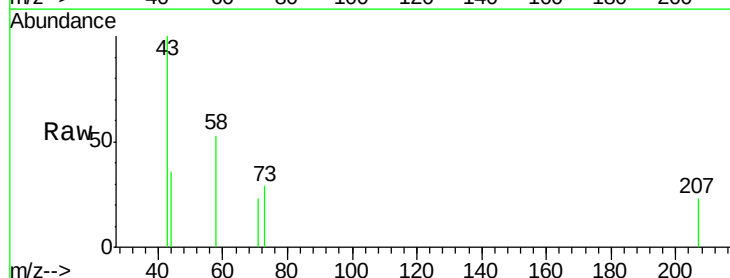
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

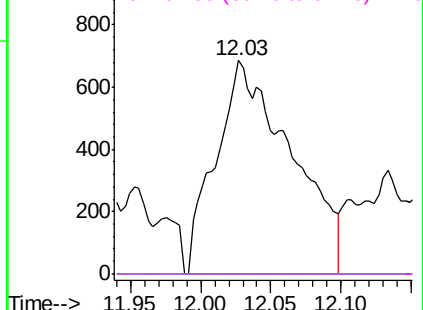
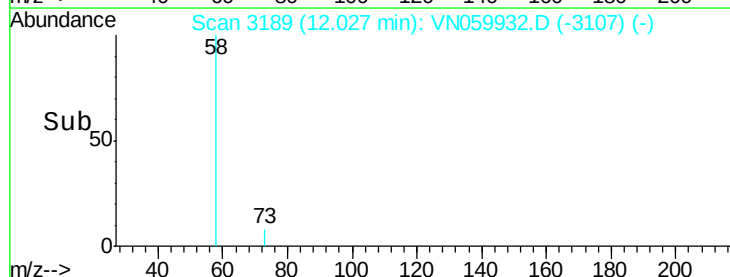


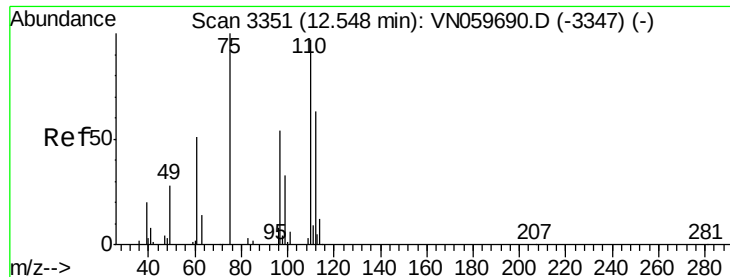
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 31.97 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059932.D

Acq: 30 Jan 2020 16:31

Instrument :

MSVOA_N

ClientSampleId :

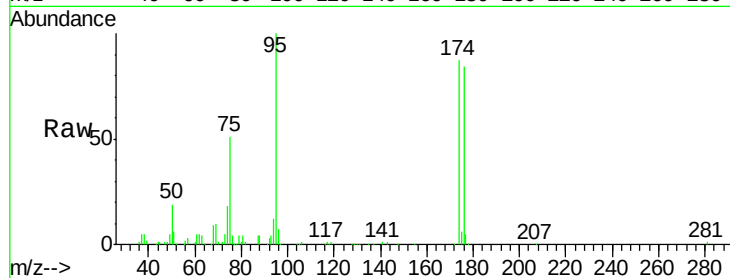
BFB

Tgt Ion: 75 Resp: 62078

Ion Ratio Lower Upper

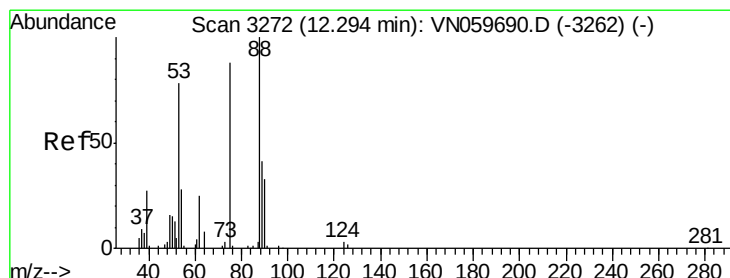
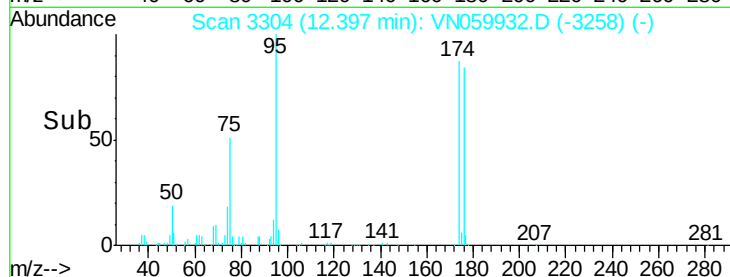
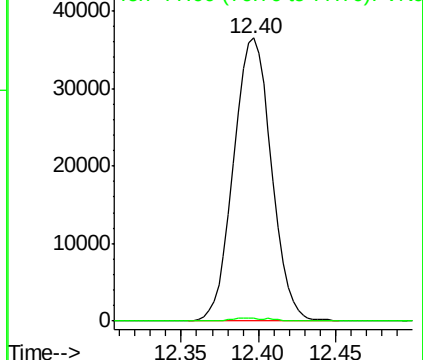
75 100

77 1.0 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: 68.65 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059932.D

Acq: 30 Jan 2020 16:31

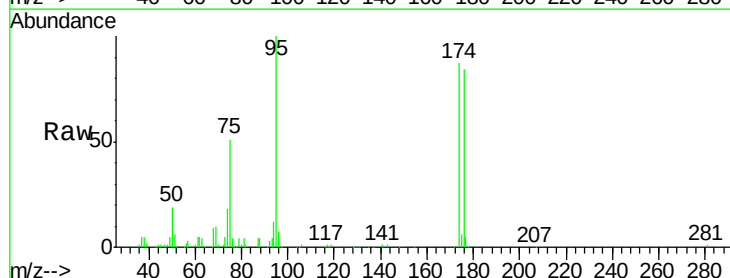
Tgt Ion: 75 Resp: 62078

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

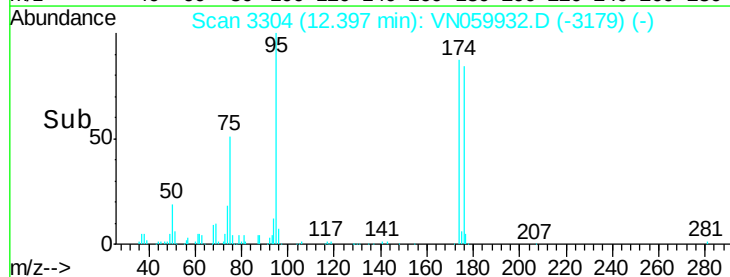
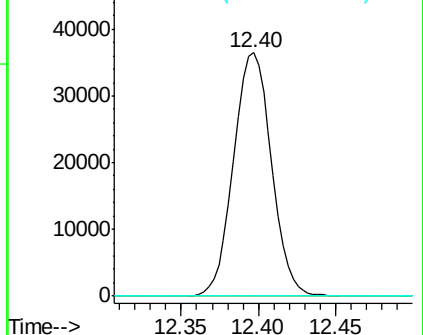
89 0.0 35.4 53.2#

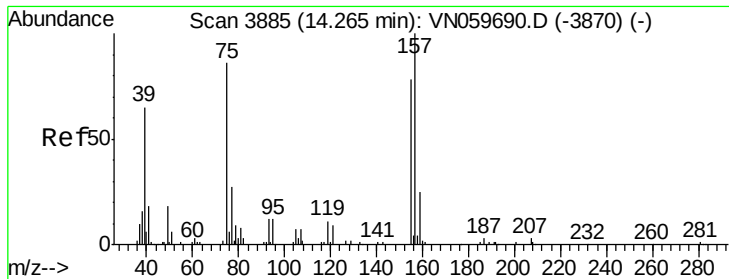


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

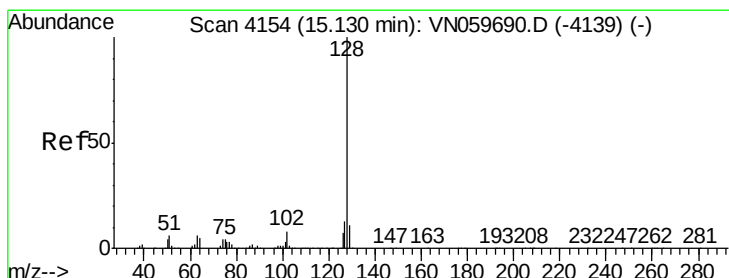
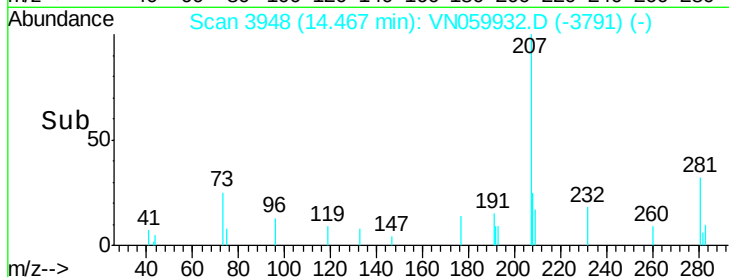
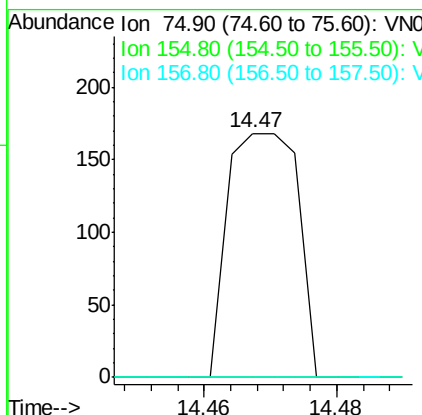
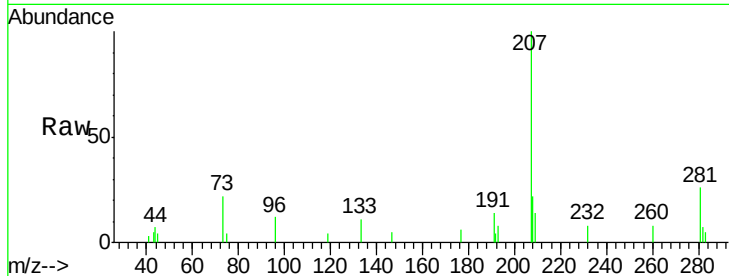




#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.47 min Scan# 3948
 Delta R.T. 0.20 min
 Lab File: VN059932.D
 Acq: 30 Jan 2020 16:31

Instrument :
 MSVOA_N
 ClientSampled :
 BFB

Tgt Ion: 75 Resp: 124
 Ion Ratio Lower Upper
 75 100
 155 0.0 37.0 110.9#
 157 0.0 48.4 145.2#



#95
 Naphthalene
 Concen: 0.40 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. 0.00 min
 Lab File: VN059932.D
 Acq: 30 Jan 2020 16:31

Tgt Ion: 128 Resp: 2546
 Ion Ratio Lower Upper
 128 100
 127 9.7 10.4 15.6#
 129 4.9 8.6 12.8#

