

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN020620\
 Data File : VN060013.D
 Acq On : 6 Feb 2020 13:24
 Operator : JC/MD
 Sample : PB126618ZHE#09
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB126618ZHE#09

Quant Time: Feb 06 16:57:44 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	197699	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	309453	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	286191	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	125974	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	114392	52.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.20%	
35) Dibromofluoromethane	7.57	113	93890	50.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.76%	
50) Toluene-d8	10.08	98	368574	51.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.10%	
62) 4-Bromofluorobenzene	12.40	95	131180	50.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.78%	

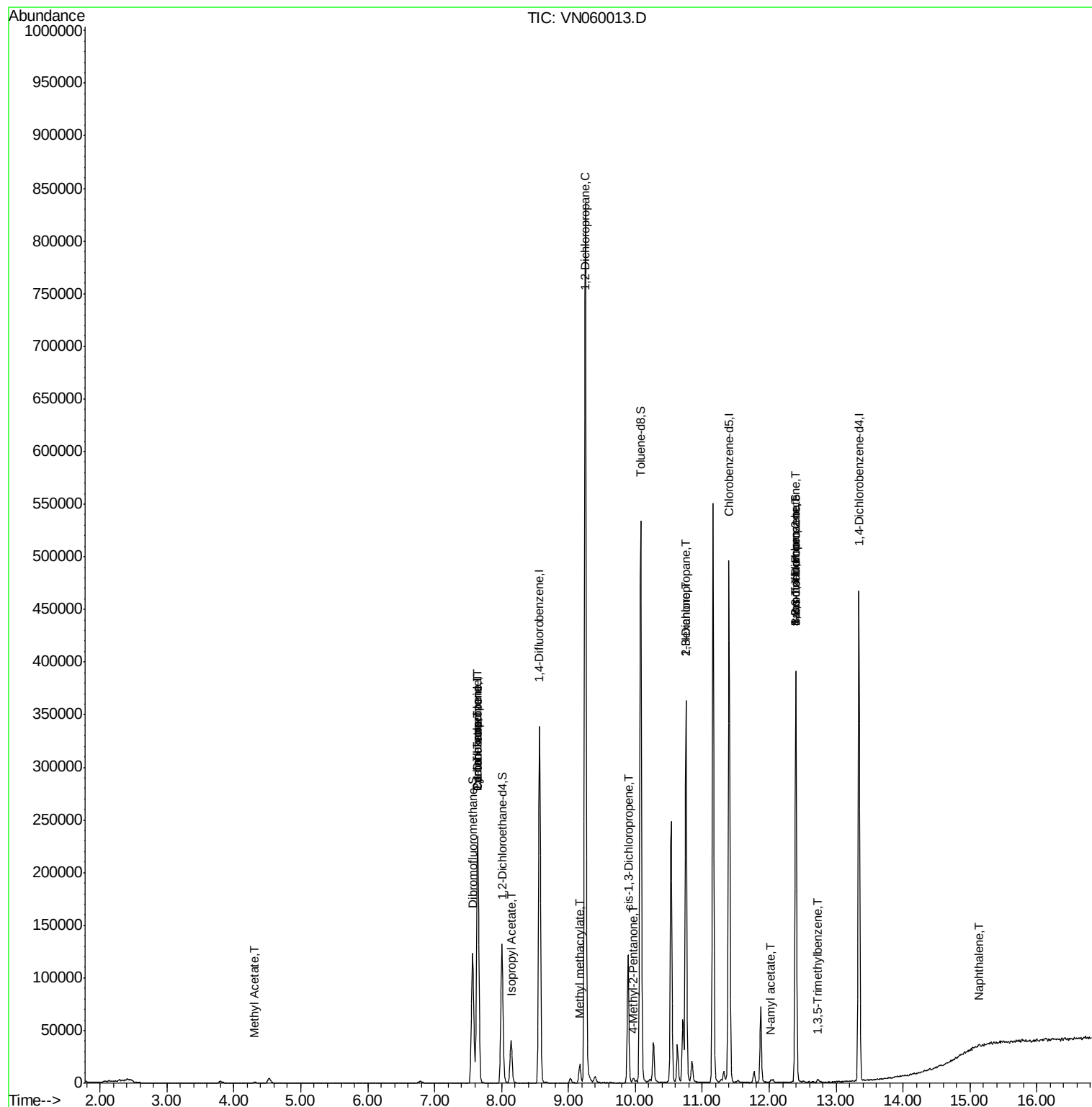
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	3816	Below Cal		98
18) Methyl Acetate	4.30	43	1107	0.43 ug/l	#	54
20) Methylene Chloride	4.52	84	1921	Below Cal		87
31) Cyclohexane	7.64	56	4141	1.27 ug/l	#	1
36) 1,1-Dichloropropene	7.64	75	14201	5.27 ug/l	#	50
38) Carbon Tetrachloride	7.64	117	18728	6.39 ug/l	#	17
43) Isopropyl Acetate	8.14	43	47857	11.01 ug/l	#	91
45) 1,2-Dichloropropane	9.25	63	1022	0.51 ug/l	#	44
48) Methyl methacrylate	9.17	41	2518	1.29 ug/l	#	13
51) 4-Methyl-2-Pentanone	9.97	43	3451	1.37 ug/l	#	85
54) cis-1,3-Dichloropropene	9.89	75	23197	6.98 ug/l	#	59
57) 1,3-Dichloropropane	10.75	76	3920	1.23 ug/l	#	42
59) 2-Hexanone	10.75	43	52146	28.17 ug/l	#	54
71) Bromoform	12.40	173	520	0.30 ug/l	#	1
74) N-amyl acetate	12.03	43	2305	0.64 ug/l	#	45
76) 1,2,3-Trichloropropane	12.40	75	67562	31.87 ug/l	#	100
80) 1,3,5-Trimethylbenzene	12.73	105	2375	0.31 ug/l		89
81) trans-1,4-Dichloro-2-buten	12.40	75	67562	68.44 ug/l	#	11
92) 1,2-Dibromo-3-Chloropropan	14.35	75	112	Below Cal	#	6
95) Naphthalene	15.14	128	1454	0.21 ug/l	#	69

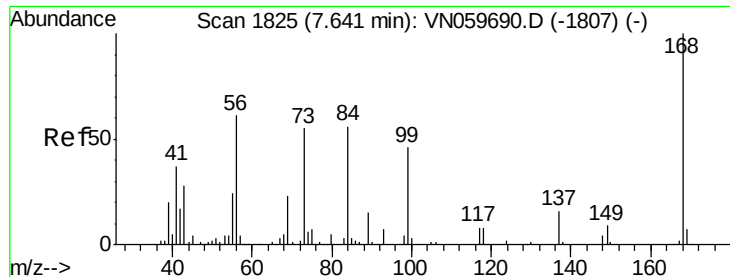
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN060013.D

Acq: 6 Feb 2020 13:24

Instrument :

MSVOA_N

ClientSampleId :

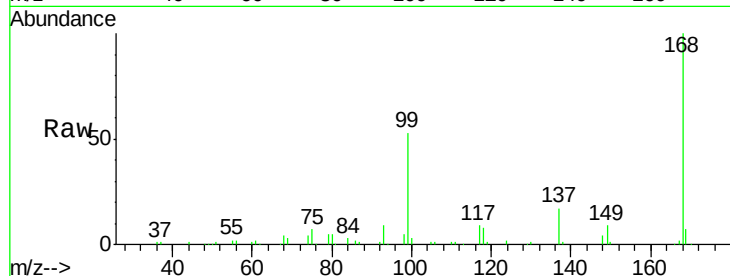
PB126618ZHE#09

Tgt Ion:168 Resp: 197699

Ion Ratio Lower Upper

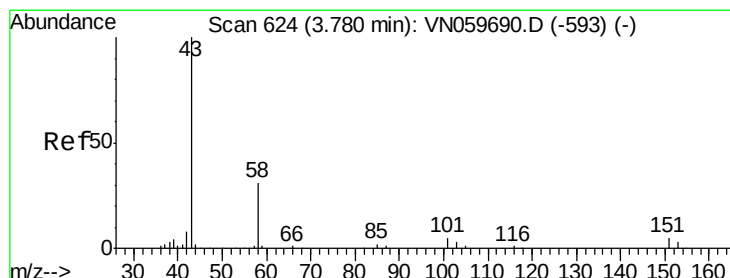
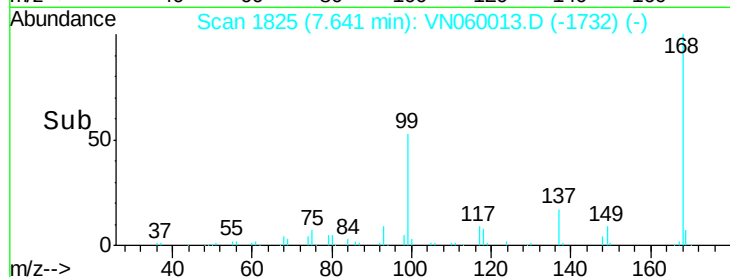
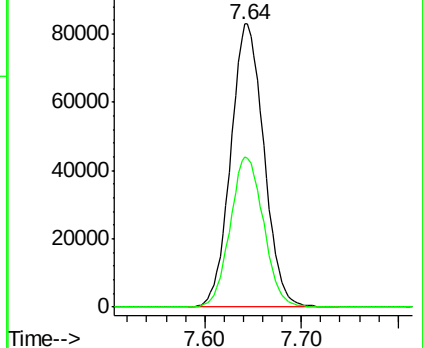
168 100

99 53.1 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VN060013.D (-1732) (-)

Ion 98.90 (98.60 to 99.60): VN060013.D (-1732) (-)



#16

Acetone

Concen: Below Cal

RT: 3.80 min Scan# 629

Delta R.T. 0.02 min

Lab File: VN060013.D

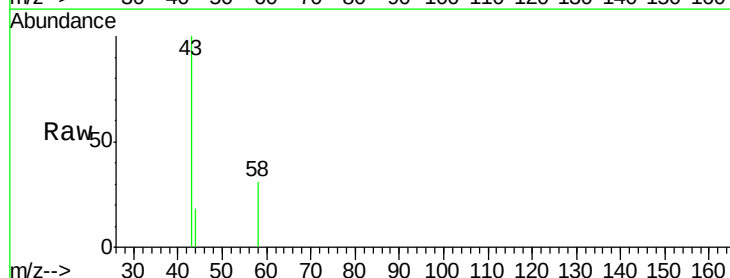
Acq: 6 Feb 2020 13:24

Tgt Ion: 43 Resp: 3816

Ion Ratio Lower Upper

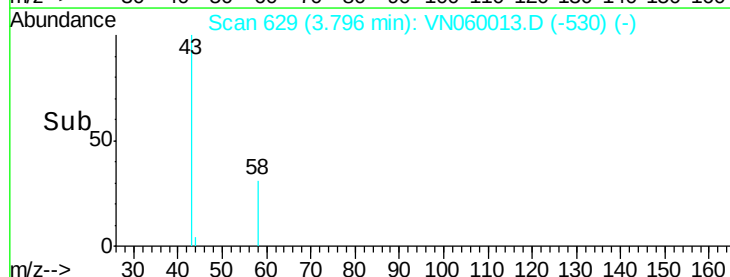
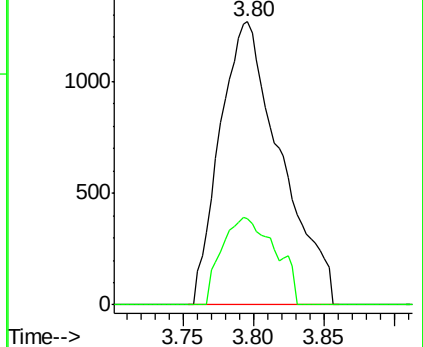
43 100

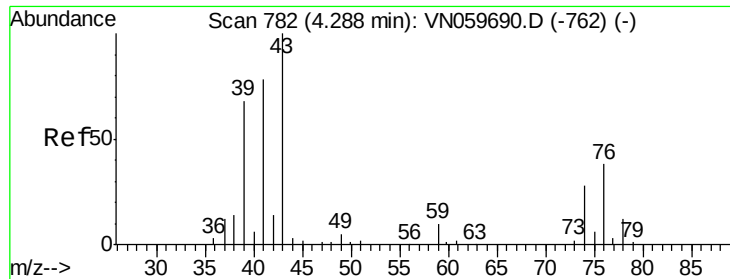
58 30.6 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN060013.D (-530) (-)

Ion 58.00 (57.70 to 58.70): VN060013.D (-530) (-)

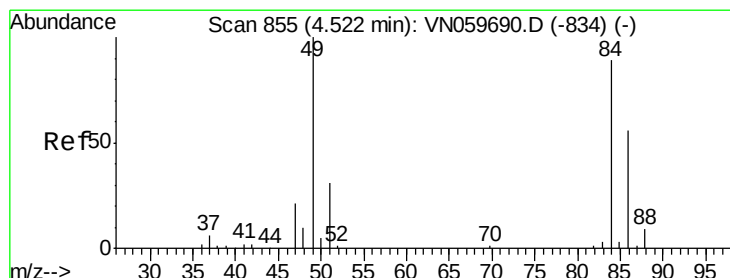
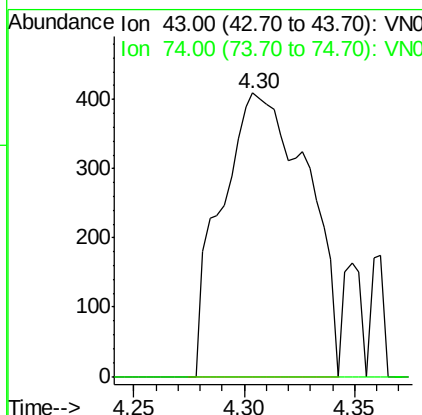
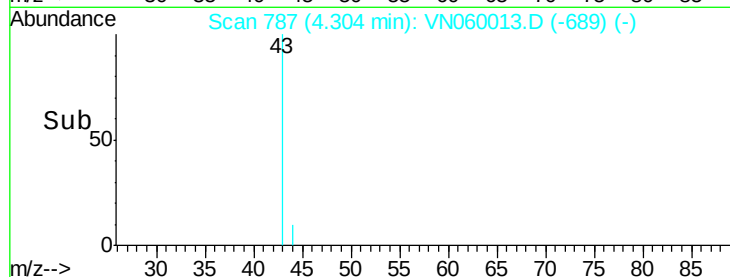
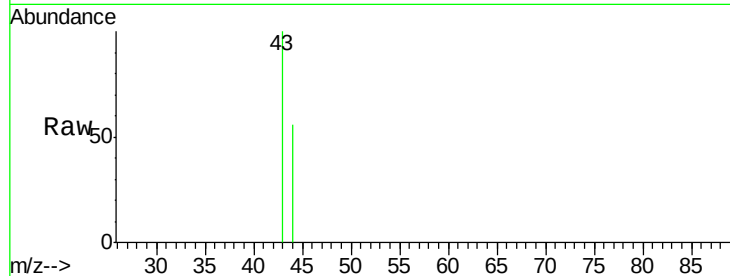




#18
Methyl Acetate
Concen: 0.43 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.02 min
Lab File: VN060013.D
Acq: 6 Feb 2020 13:24

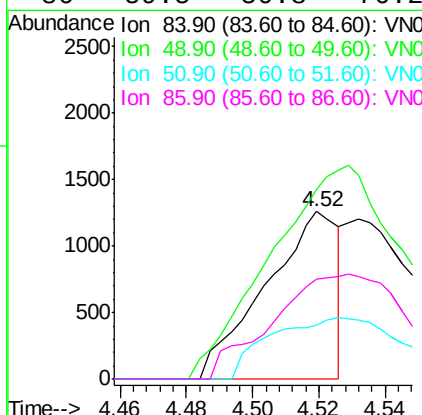
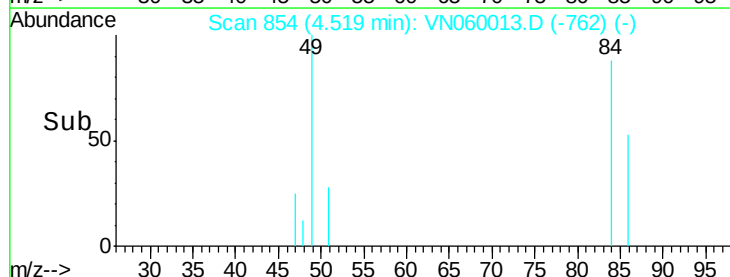
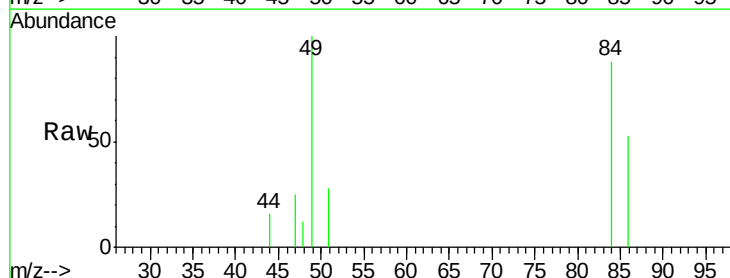
Instrument :
MSVOA_N
ClientSampleId :
PB126618ZHE#09

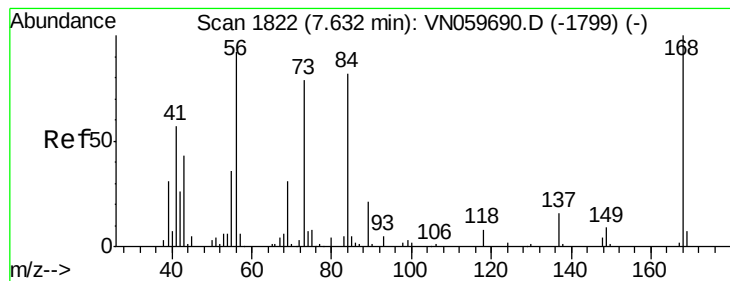
Tgt Ion: 43 Resp: 1107
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060013.D
Acq: 6 Feb 2020 13:24

Tgt Ion: 84 Resp: 1921
Ion Ratio Lower Upper
84 100
49 113.0 106.6 160.0
51 32.2 31.9 47.9
86 59.5 50.8 76.2





#31

Cyclohexane

Concen: 1.27 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN060013.D

Acq: 6 Feb 2020 13:24

Instrument :

MSVOA_N

ClientSampleId :

PB126618ZHE#09

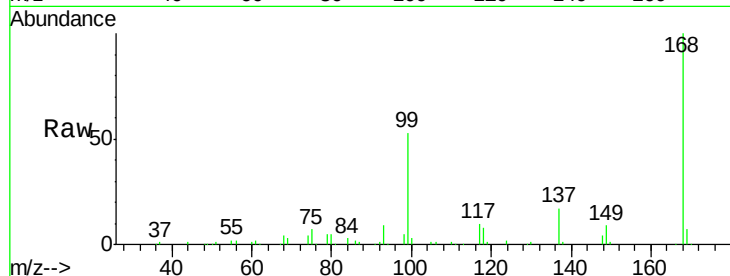
Tgt Ion: 56 Resp: 4141

Ion Ratio Lower Upper

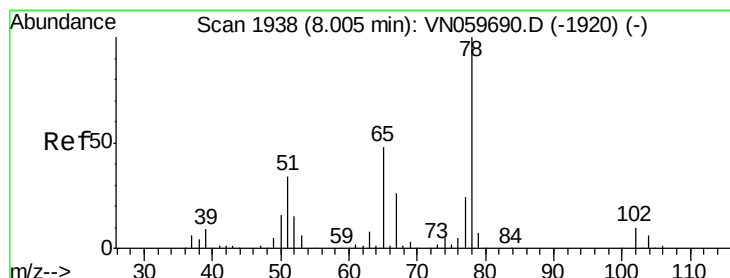
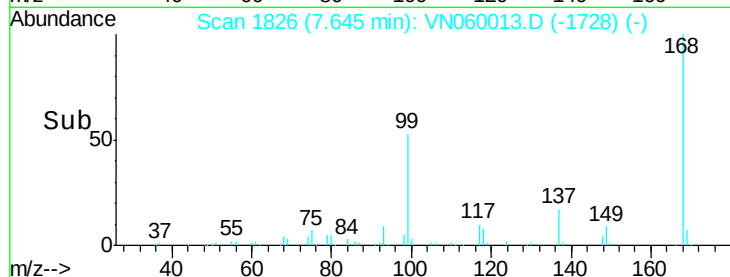
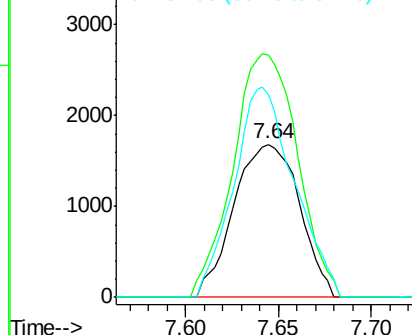
56 100

69 158.2 26.5 39.7#

84 132.7 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: 52.10 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060013.D

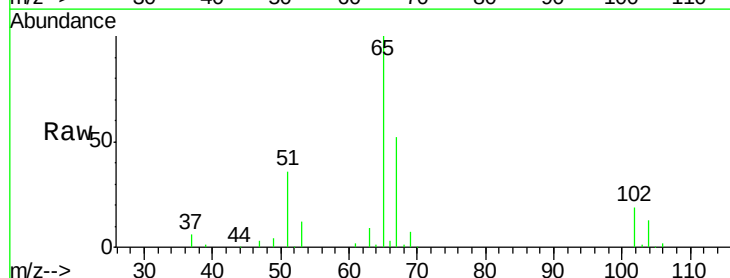
Acq: 6 Feb 2020 13:24

Tgt Ion: 65 Resp: 114392

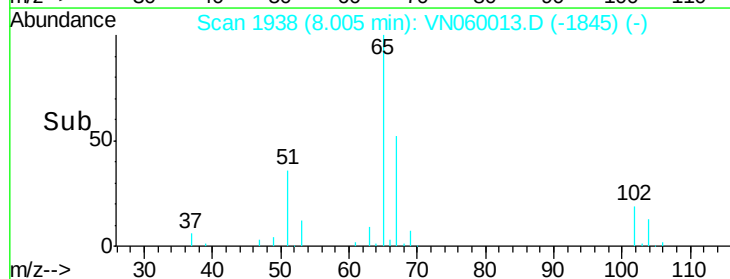
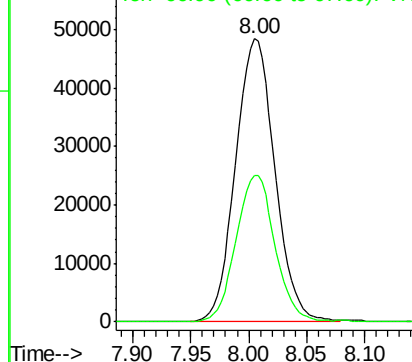
Ion Ratio Lower Upper

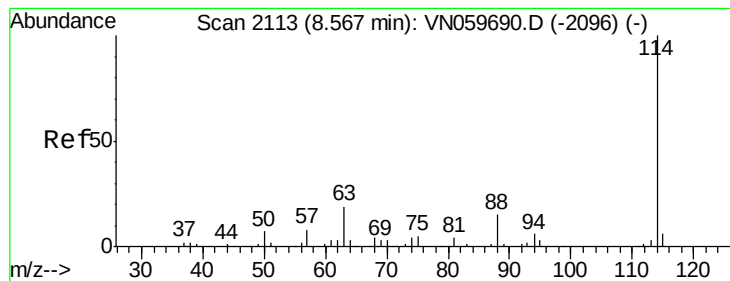
65 100

67 51.1 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: VN060013.D

Acq: 6 Feb 2020 13:24

Instrument :

MSVOA_N

ClientSampleId :

PB126618ZHE#09

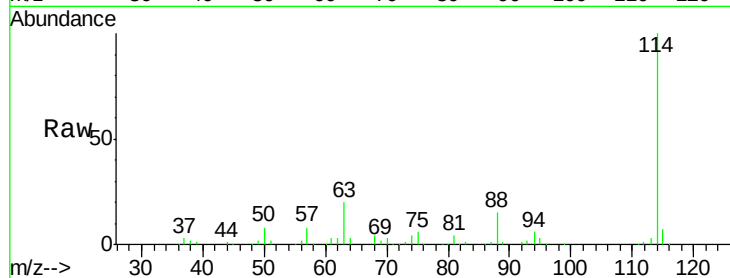
Tgt Ion:114 Resp: 309453

Ion Ratio Lower Upper

114 100

63 19.8 0.0 43.6

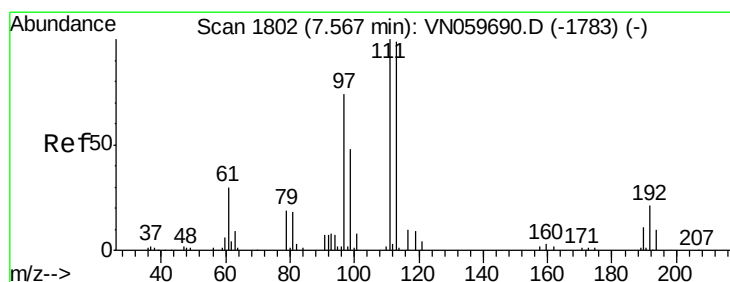
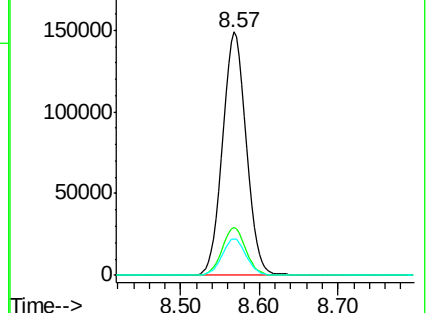
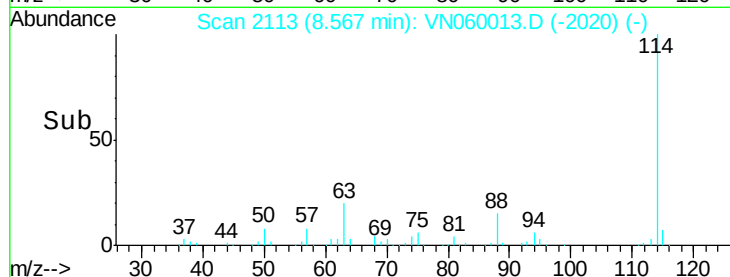
88 15.1 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.88 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN060013.D

Acq: 6 Feb 2020 13:24

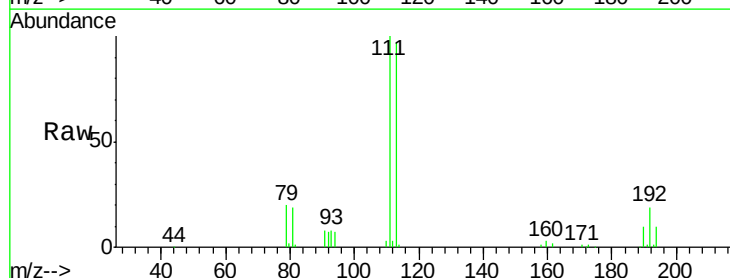
Tgt Ion:113 Resp: 93890

Ion Ratio Lower Upper

113 100

111 102.9 83.5 125.3

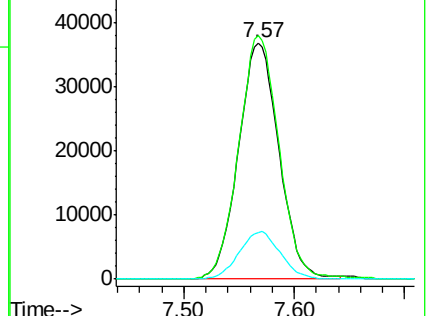
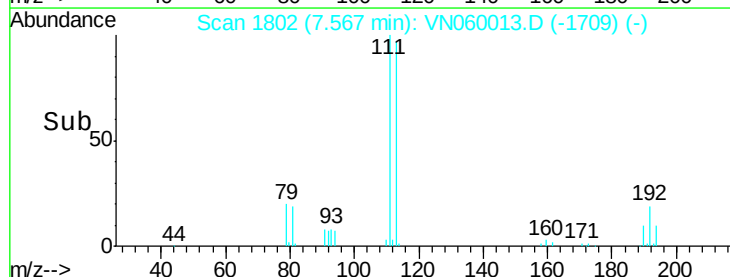
192 20.4 15.4 23.2

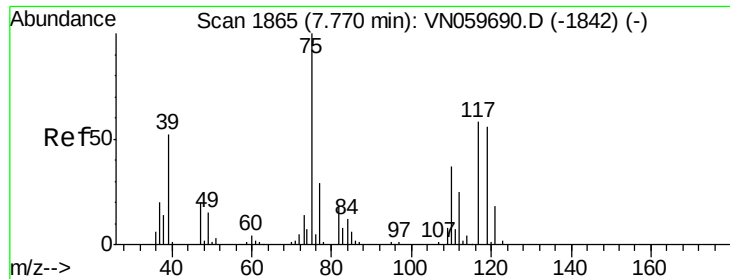


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

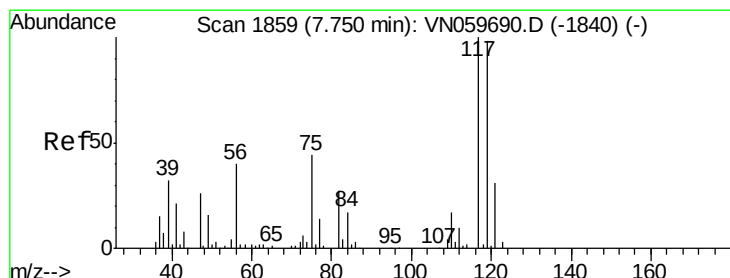
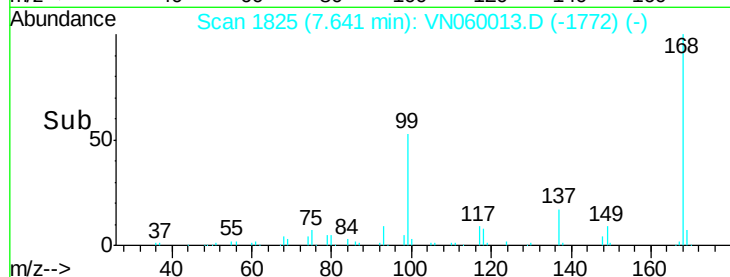
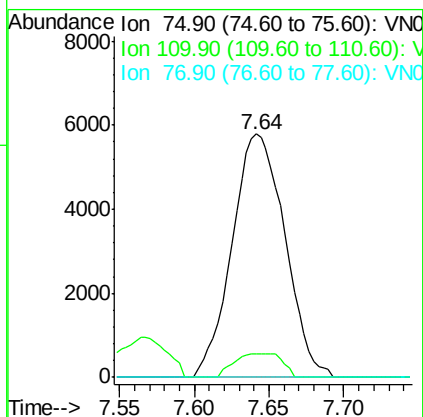
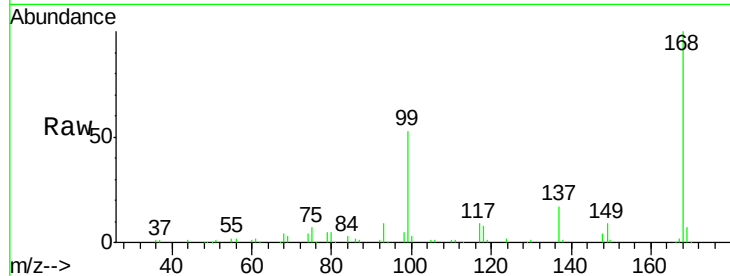




#36
 1,1-Dichloropropene
 Concen: 5.27 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060013.D
 Acq: 6 Feb 2020 13:24

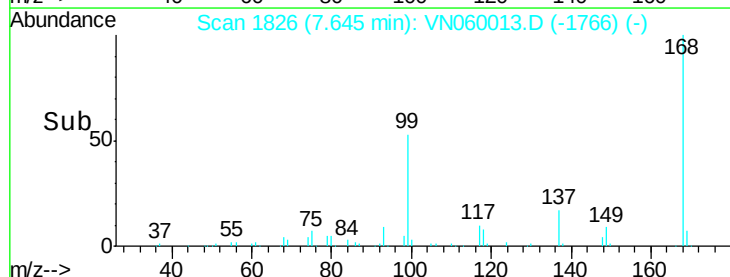
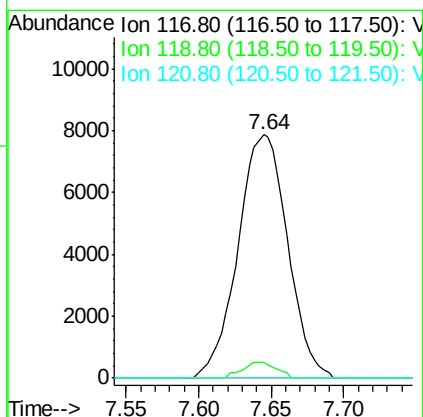
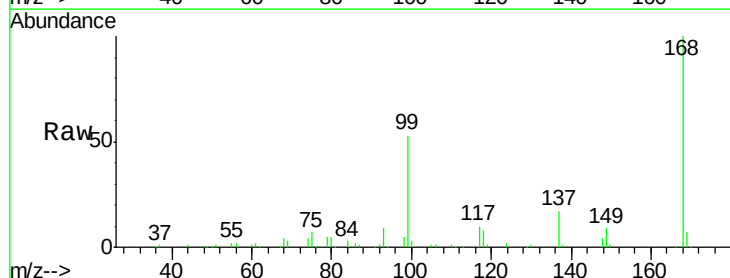
Instrument :
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 PB126618ZHE#09

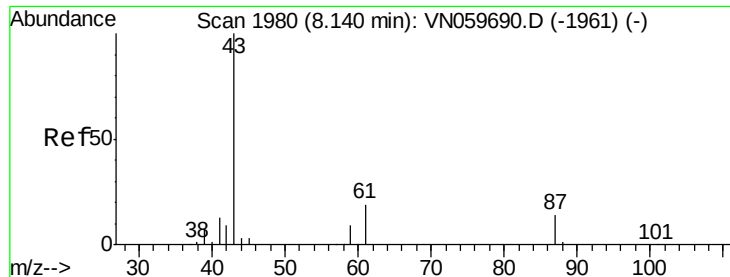
Tgt Ion: 75 Resp: 14201
 Ion Ratio Lower Upper
 75 100
 110 8.8 16.6 49.7#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 6.39 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN060013.D
 Acq: 6 Feb 2020 13:24

Tgt Ion: 117 Resp: 18728
 Ion Ratio Lower Upper
 117 100
 119 6.2 76.5 114.7#
 121 0.0 25.1 37.7#





#43

Isopropyl Acetate

Concen: 11.01 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060013.D

Acq: 6 Feb 2020 13:24

Instrument :

MSVOA_N

ClientSampleId :

PB126618ZHE#09

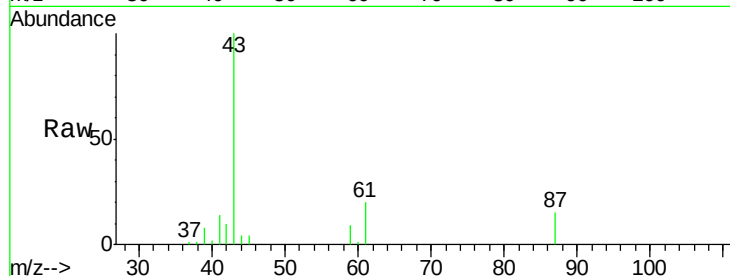
Tgt Ion: 43 Resp: 47857

Ion Ratio Lower Upper

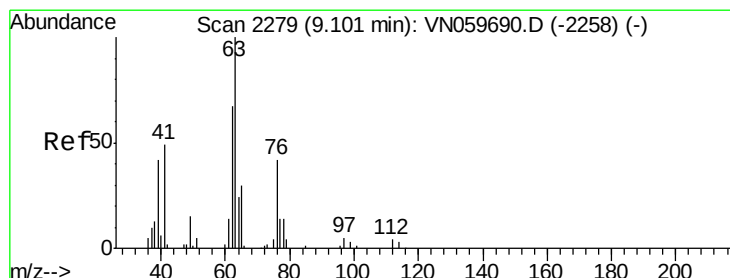
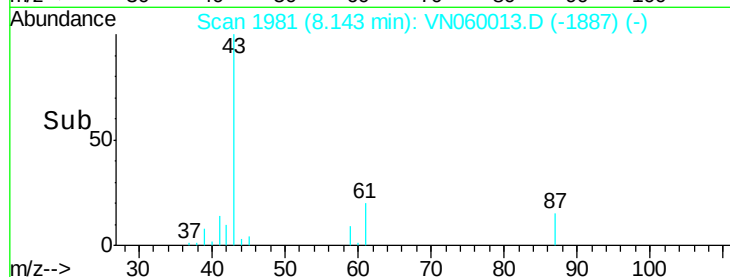
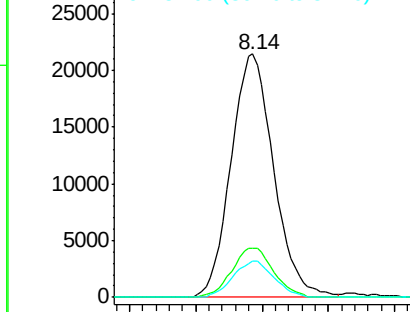
43 100

61 19.8 20.2 30.2#

87 14.2 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: 0.51 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060013.D

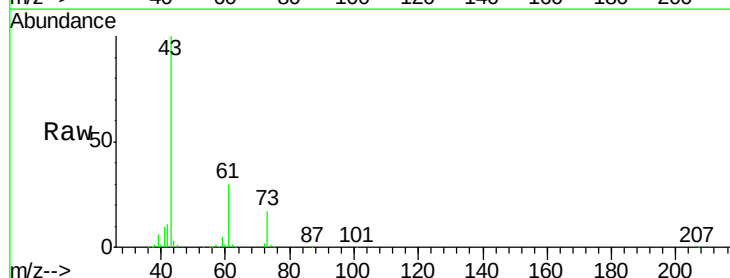
Acq: 6 Feb 2020 13:24

Tgt Ion: 63 Resp: 1022

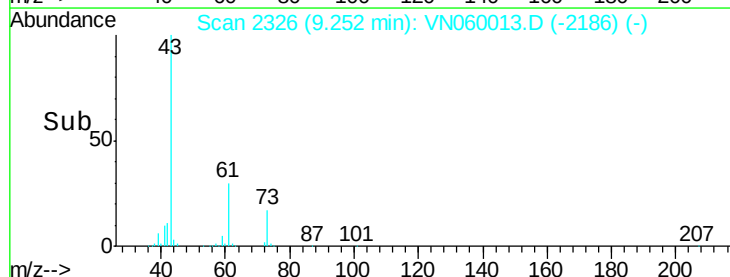
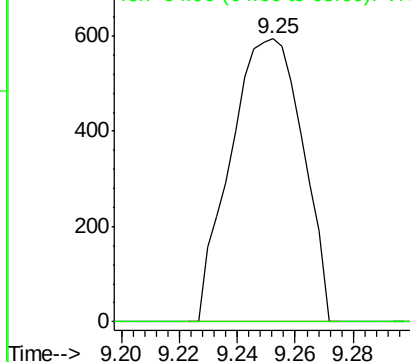
Ion Ratio Lower Upper

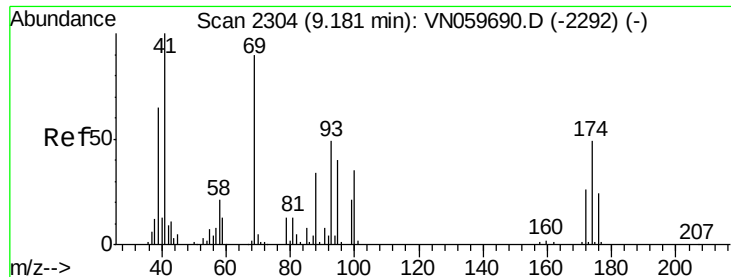
63 100

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

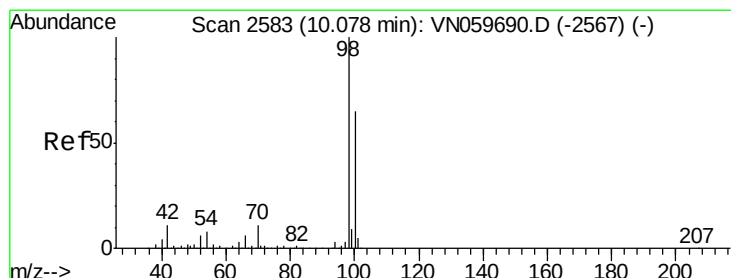
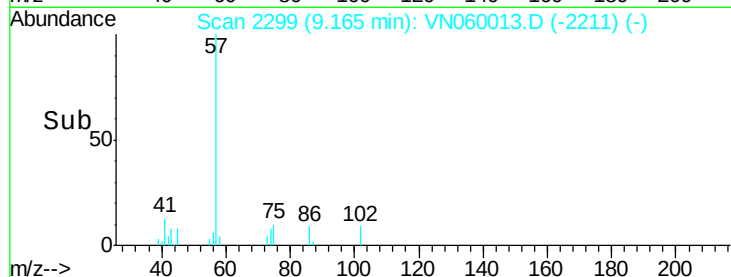
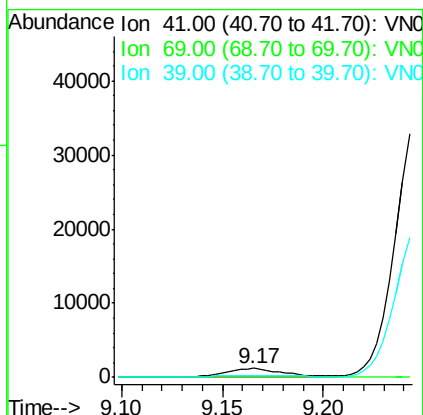
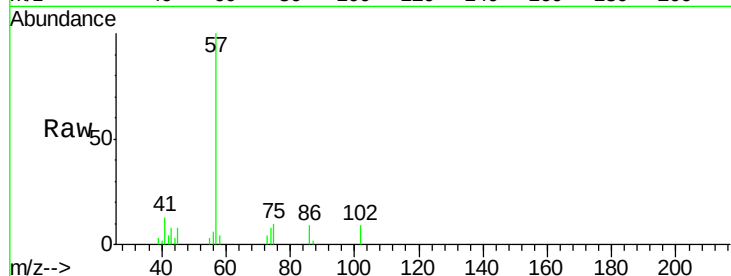




#48
Methyl methacrylate
Concen: 1.29 ug/l
RT: 9.17 min Scan# 2299
Delta R.T. -0.02 min
Lab File: VN060013.D
Acq: 6 Feb 2020 13:24

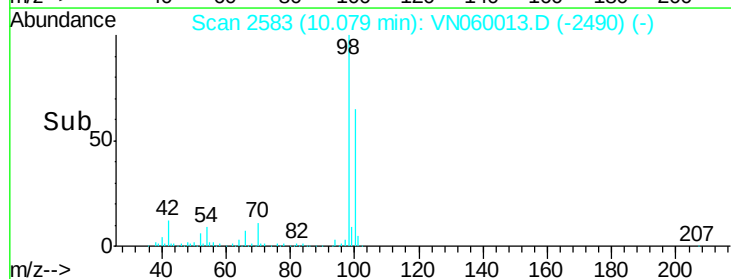
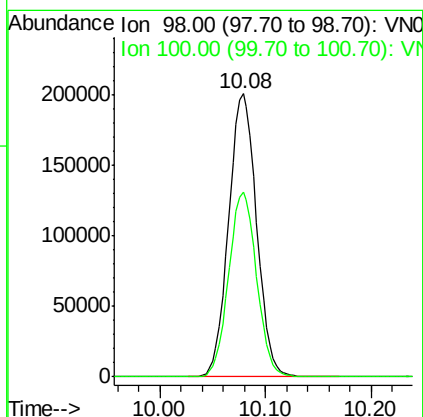
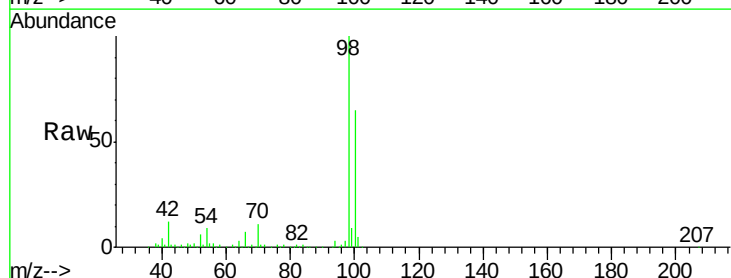
Instrument :
MSVOA_N
ClientSampleId :
PB126618ZHE#09

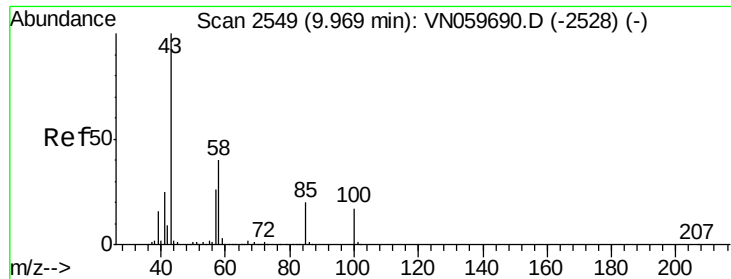
Tgt Ion: 41 Resp: 2518
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#



#50
Toluene-d8
Concen: 51.55 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060013.D
Acq: 6 Feb 2020 13:24

Tgt Ion: 98 Resp: 368574
Ion Ratio Lower Upper
98 100
100 65.1 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 1.37 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060013.D

Acq: 6 Feb 2020 13:24

Instrument :

MSVOA_N

ClientSampleId :

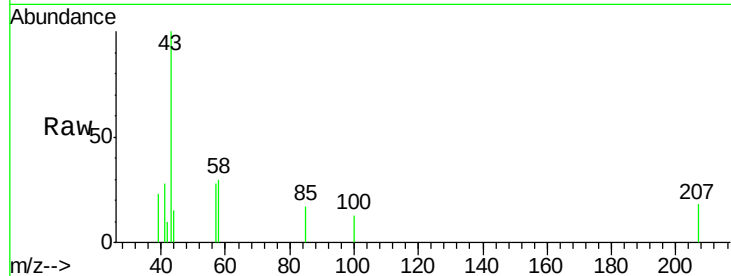
PB126618ZHE#09

Tgt Ion: 43 Resp: 3451

Ion Ratio Lower Upper

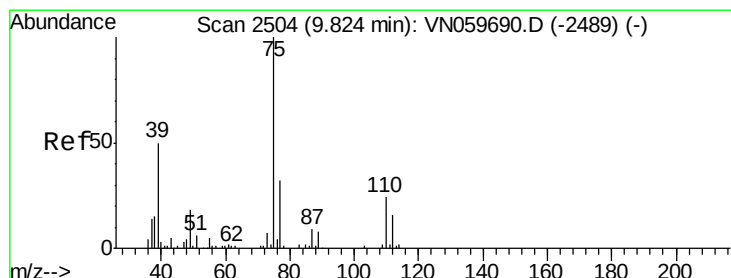
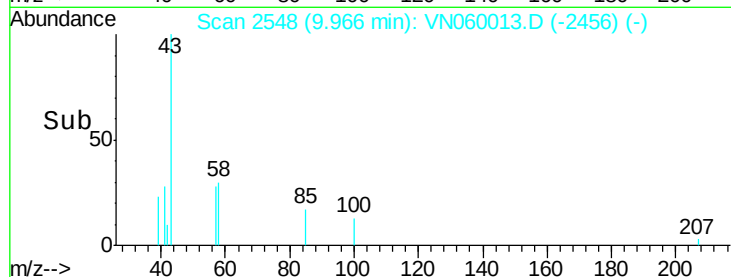
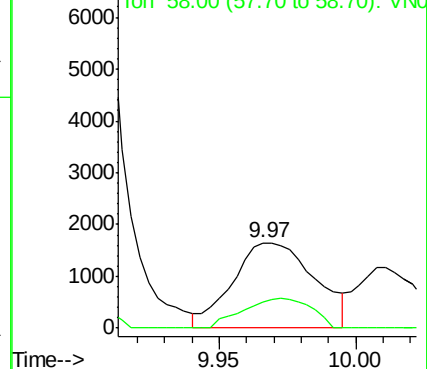
43 100

58 28.6 29.8 44.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 6.98 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060013.D

Acq: 6 Feb 2020 13:24

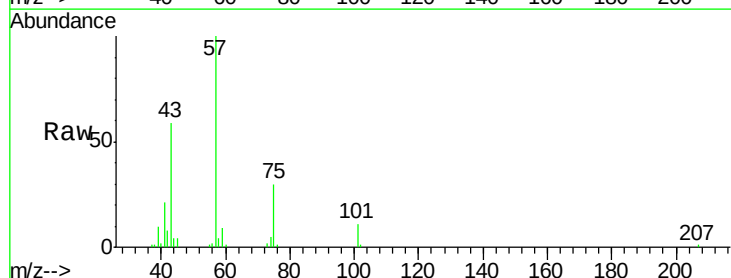
Tgt Ion: 75 Resp: 23197

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

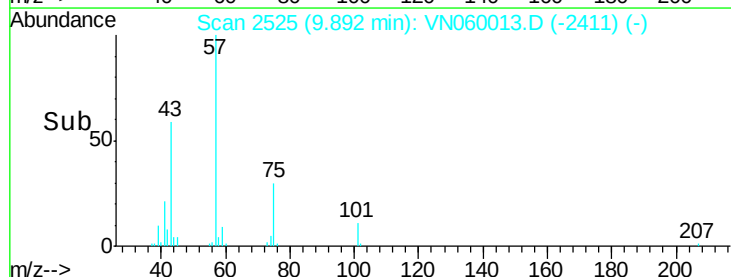
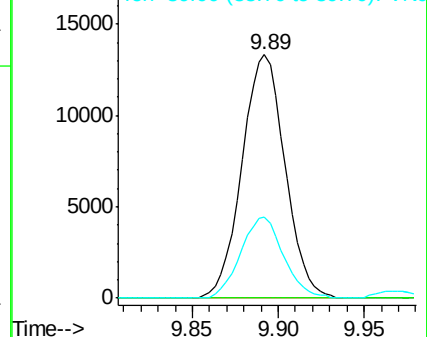
39 33.1 46.1 69.1#

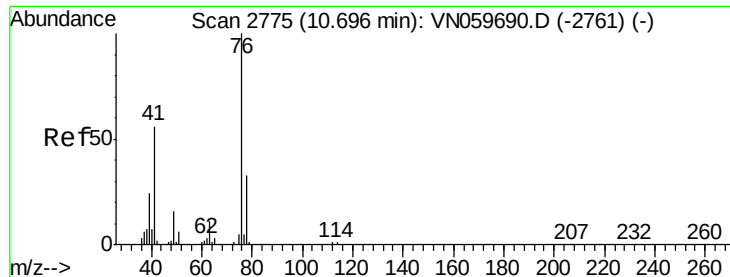


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

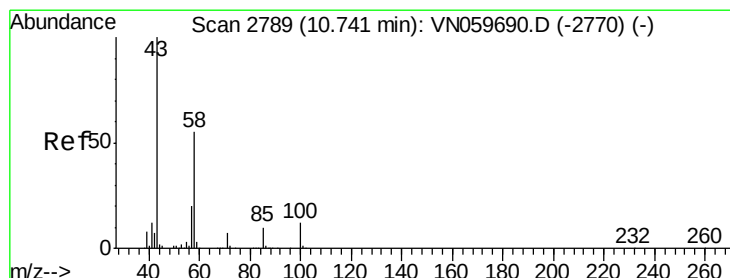
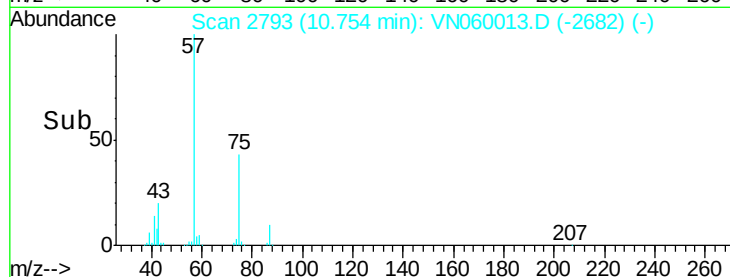
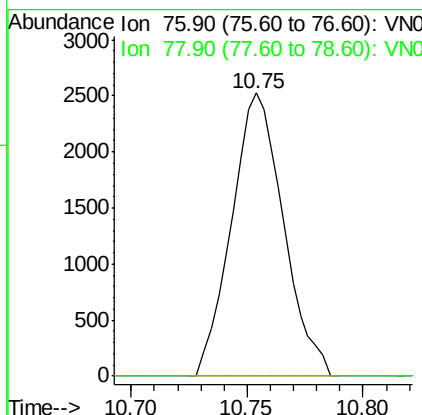
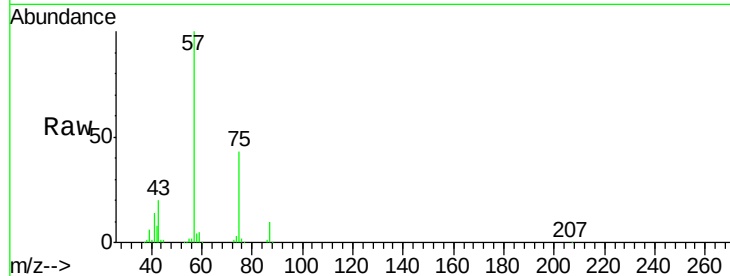




#57
 1,3-Dichloropropane
 Concen: 1.23 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060013.D
 Acq: 6 Feb 2020 13:24

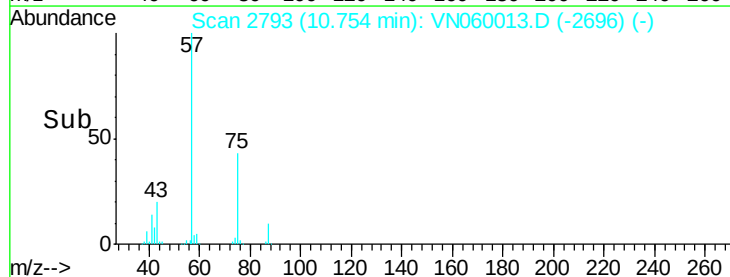
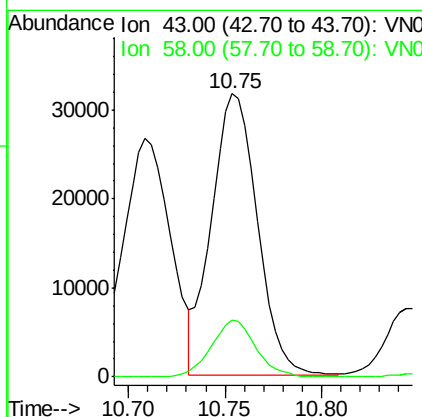
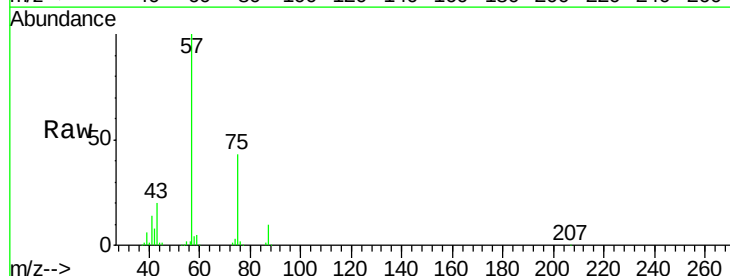
Instrument :
 MSVOA_N
 ClientSampleId :
 PB126618ZHE#09

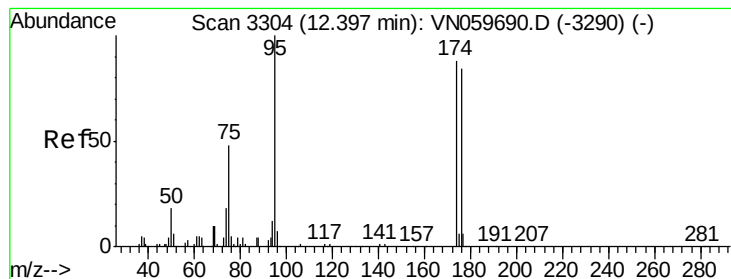
Tgt Ion: 76 Resp: 3920
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 28.17 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060013.D
 Acq: 6 Feb 2020 13:24

Tgt Ion: 43 Resp: 52146
 Ion Ratio Lower Upper
 43 100
 58 19.4 25.8 77.3#





#62

4-Bromofluorobenzene

Concen: 50.89 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060013.D

Acq: 6 Feb 2020 13:24

Instrument :

MSVOA_N

ClientSampleId :

PB126618ZHE#09

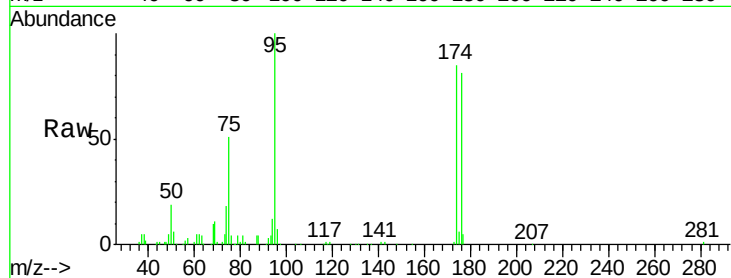
Tgt Ion: 95 Resp: 131180

Ion Ratio Lower Upper

95 100

174 85.5 0.0 151.4

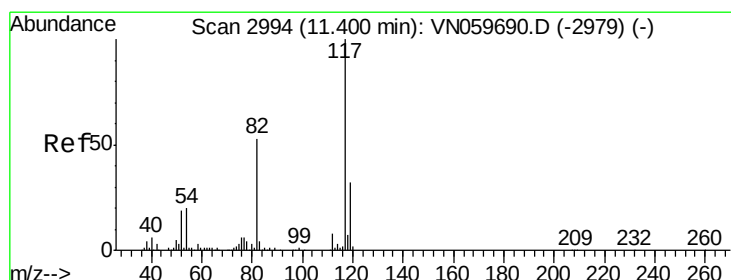
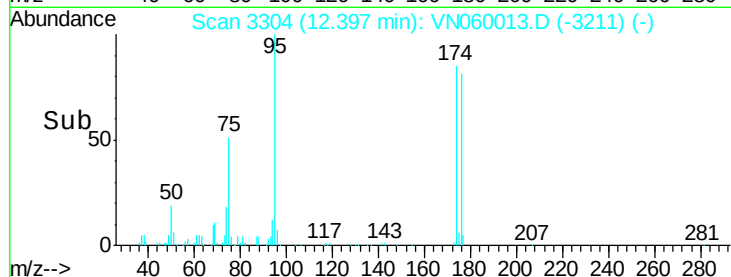
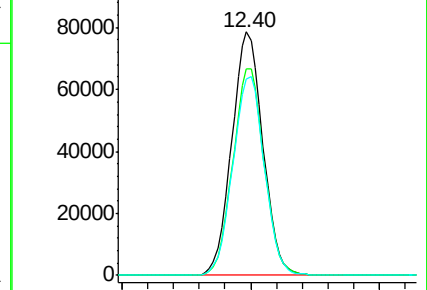
176 83.2 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN060013.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060013.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060013.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060013.D

Acq: 6 Feb 2020 13:24

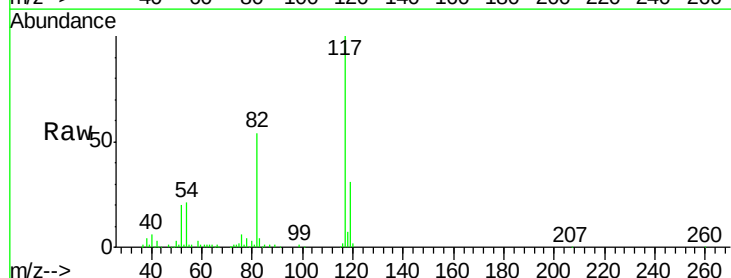
Tgt Ion: 117 Resp: 286191

Ion Ratio Lower Upper

117 100

82 53.7 45.9 68.9

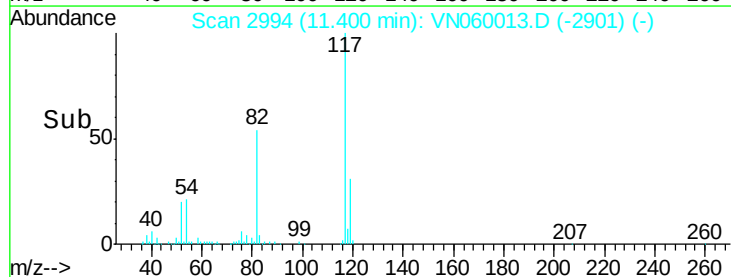
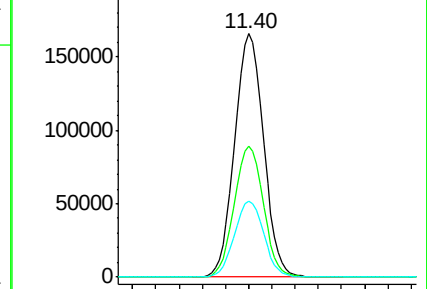
119 31.3 25.5 38.3

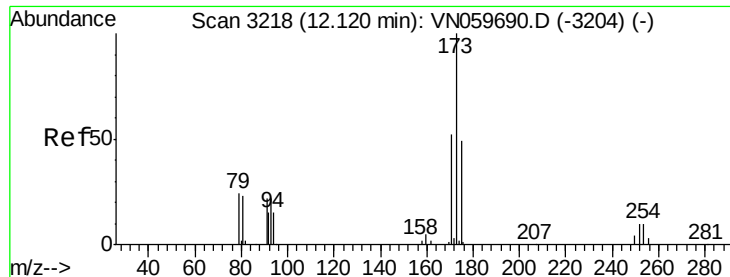


Abundance Ion 116.90 (116.60 to 117.60): VN060013.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060013.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060013.D (-2901) (-)





#71

Bromoform

Concen: 0.30 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN060013.D

Acq: 6 Feb 2020 13:24

Instrument :

MSVOA_N

ClientSampleId :

PB126618ZHE#09

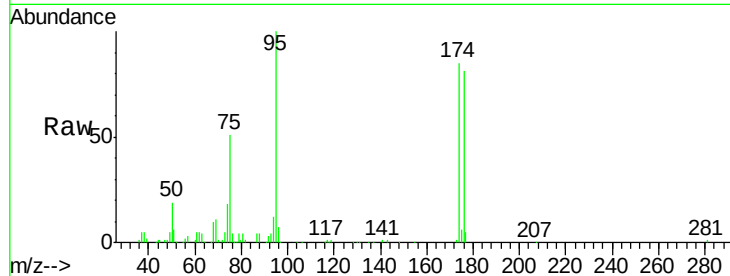
Tgt Ion:173 Resp: 520

Ion Ratio Lower Upper

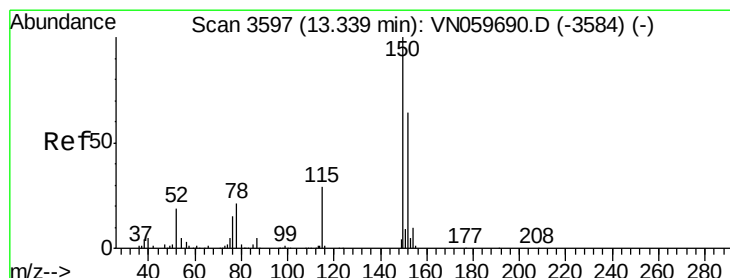
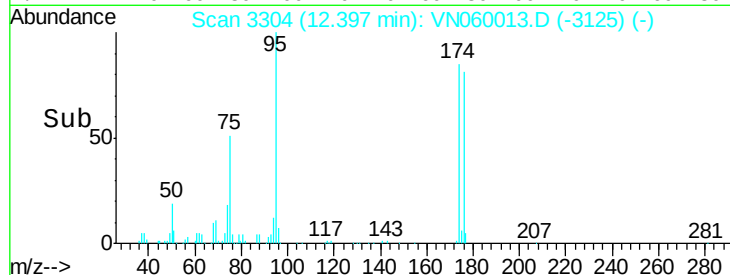
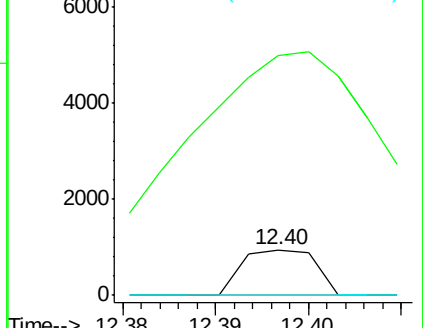
173 100

175 1335.6 23.8 71.4#

254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060013.D

Acq: 6 Feb 2020 13:24

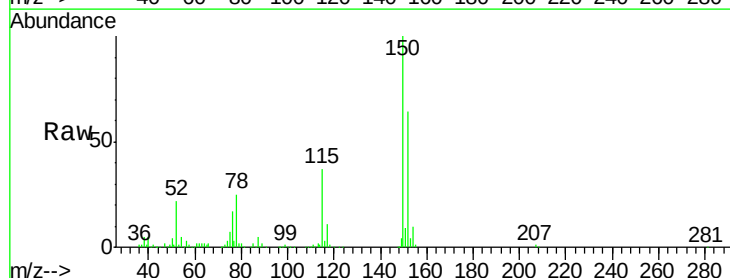
Tgt Ion:152 Resp: 125974

Ion Ratio Lower Upper

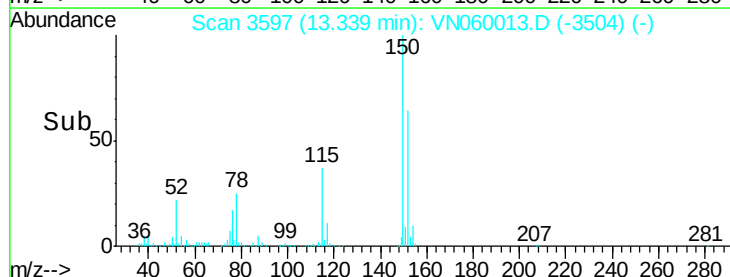
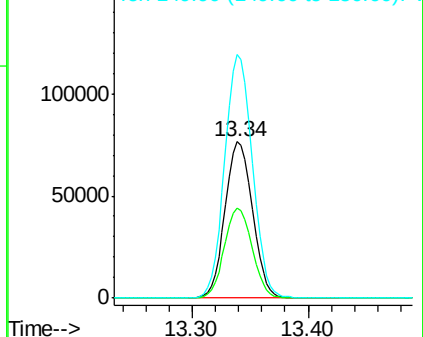
152 100

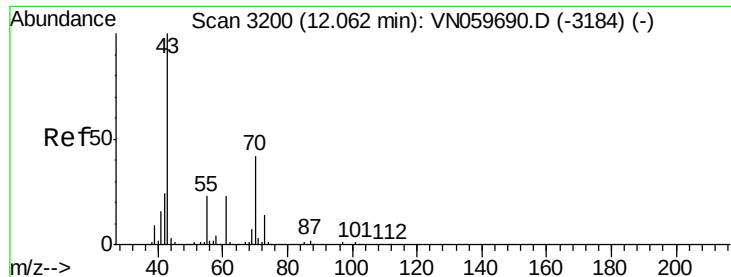
115 57.9 30.3 90.9

150 156.2 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: 0.64 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.03 min

Lab File: VN060013.D

Acq: 6 Feb 2020 13:24

Instrument :

MSVOA_N

ClientSampleId :

PB126618ZHE#09

Tgt Ion: 43 Resp: 2305

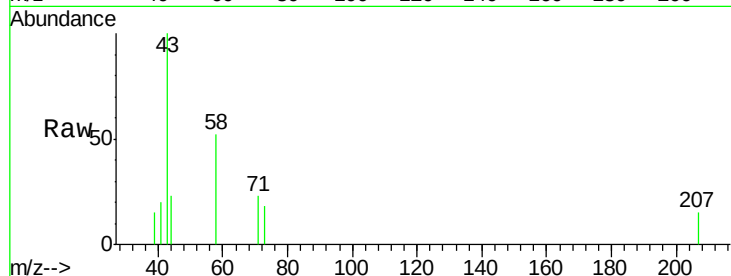
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

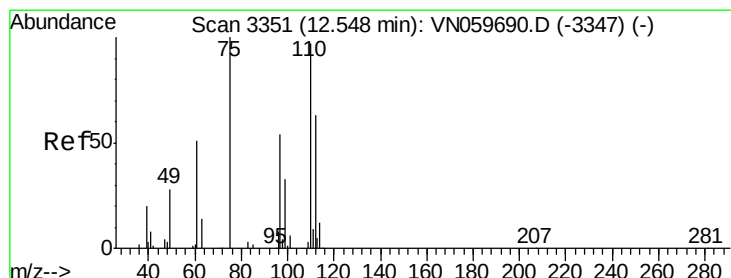
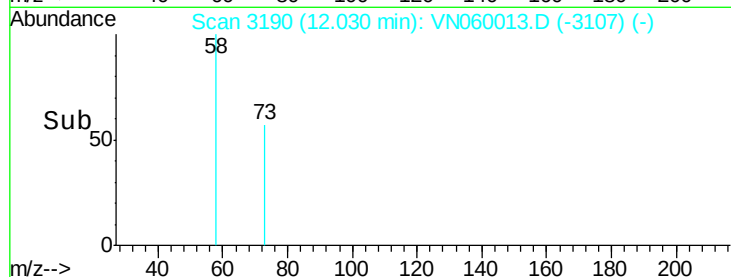
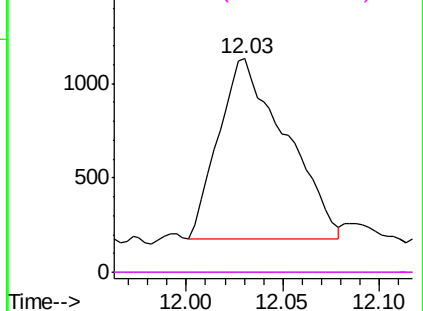


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 31.87 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060013.D

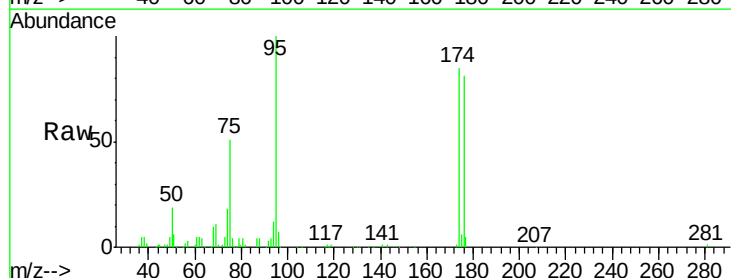
Acq: 6 Feb 2020 13:24

Tgt Ion: 75 Resp: 67562

Ion Ratio Lower Upper

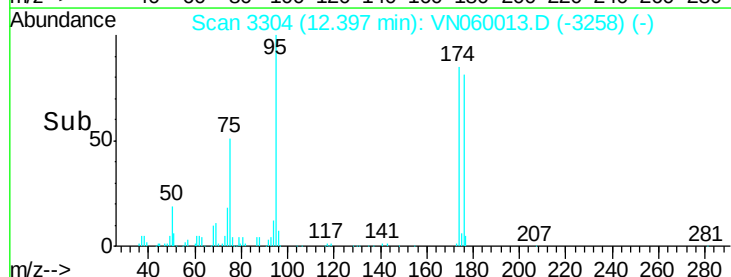
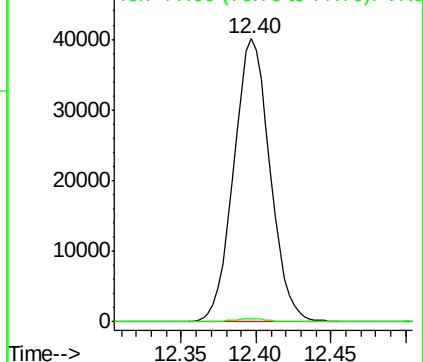
75 100

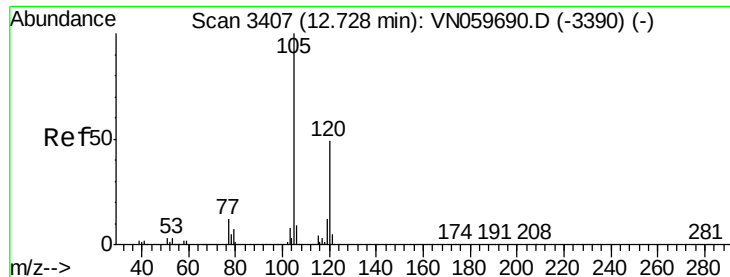
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.31 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060013.D

Acq: 6 Feb 2020 13:24

Instrument :

MSVOA_N

ClientSampleId :

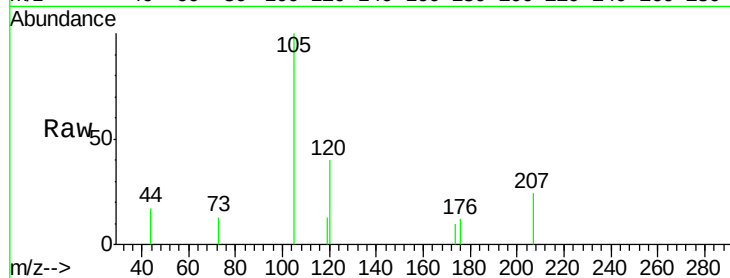
PB126618ZHE#09

Tgt Ion: 105 Resp: 2375

Ion Ratio Lower Upper

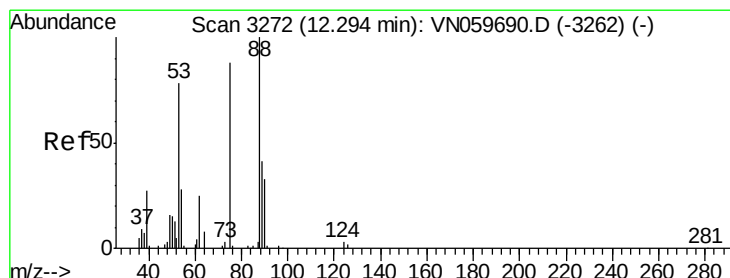
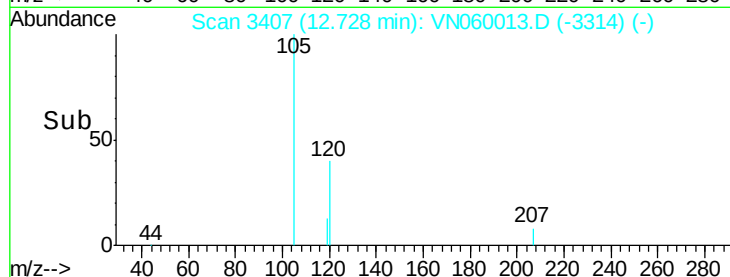
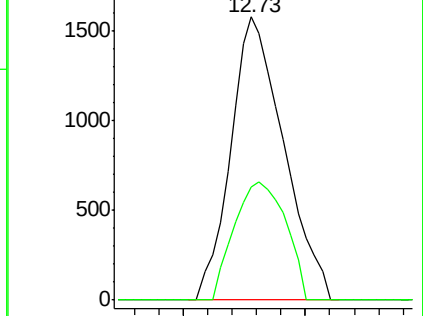
105 100

120 40.7 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 68.44 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060013.D

Acq: 6 Feb 2020 13:24

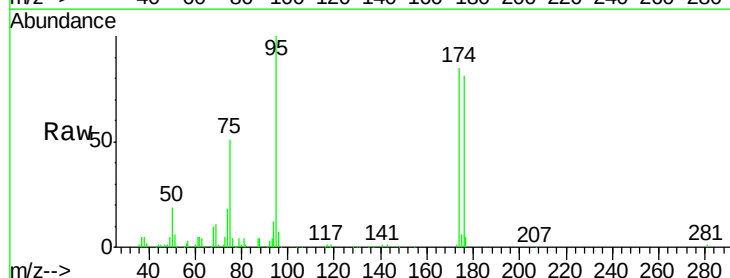
Tgt Ion: 75 Resp: 67562

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

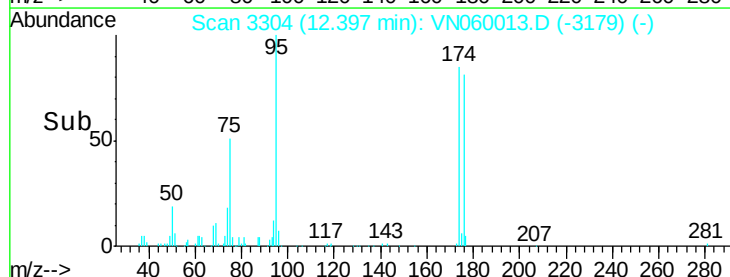
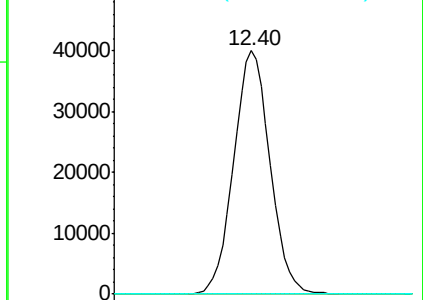
89 0.0 35.4 53.2#

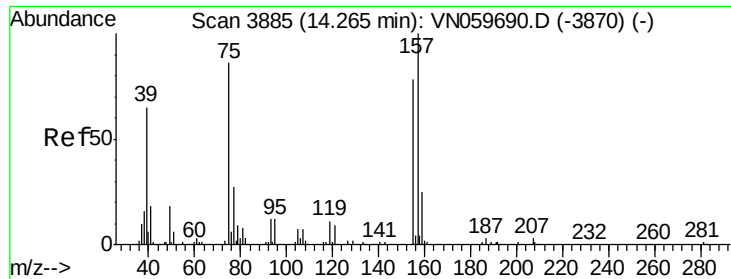


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

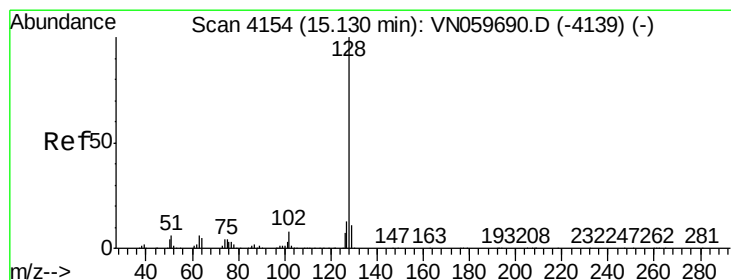
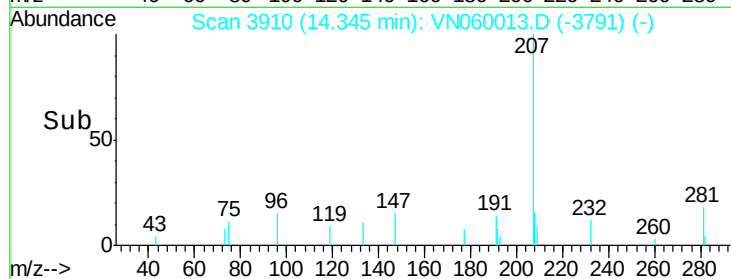
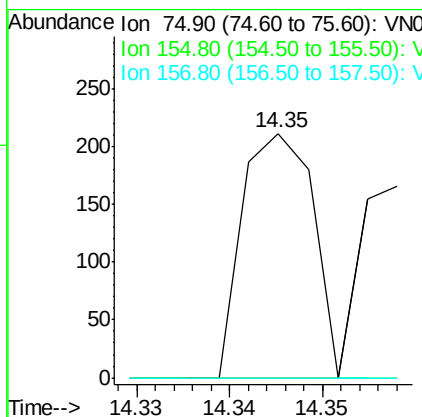
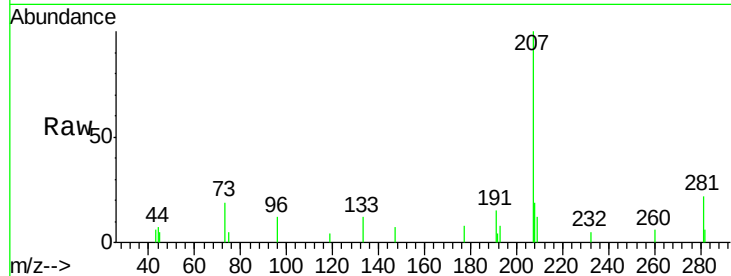




#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.35 min Scan# 3910
 Delta R.T. 0.08 min
 Lab File: VN060013.D
 Acq: 6 Feb 2020 13:24

Instrument :
 MSVOA_N
 ClientSampleId :
 PB126618ZHE#09

Tgt Ion: 75 Resp: 112
 Ion Ratio Lower Upper
 75 100
 155 0.0 37.0 110.9#
 157 0.0 48.4 145.2#



#95
 Naphthalene
 Concen: 0.21 ug/l
 RT: 15.14 min Scan# 4157
 Delta R.T. 0.01 min
 Lab File: VN060013.D
 Acq: 6 Feb 2020 13:24

Tgt Ion: 128 Resp: 1454
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.4 15.6#
 129 0.0 8.6 12.8#

