

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN022420\
 Data File : VN060211.D
 Acq On : 24 Feb 2020 15:40
 Operator : JC/MD
 Sample : PB127001ZHE#04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127001ZHE#04

Quant Time: Feb 24 16:54:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	192922	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	302154	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	290292	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	129384	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	114024	48.57	ug/l	0.00
Spiked Amount			Recovery	=	97.14%	
35) Dibromofluoromethane	7.57	113	91089	49.04	ug/l	0.00
Spiked Amount			Recovery	=	98.08%	
50) Toluene-d8	10.08	98	367771	50.28	ug/l	0.00
Spiked Amount			Recovery	=	100.56%	
62) 4-Bromofluorobenzene	12.40	95	133364	49.62	ug/l	0.00
Spiked Amount			Recovery	=	99.24%	

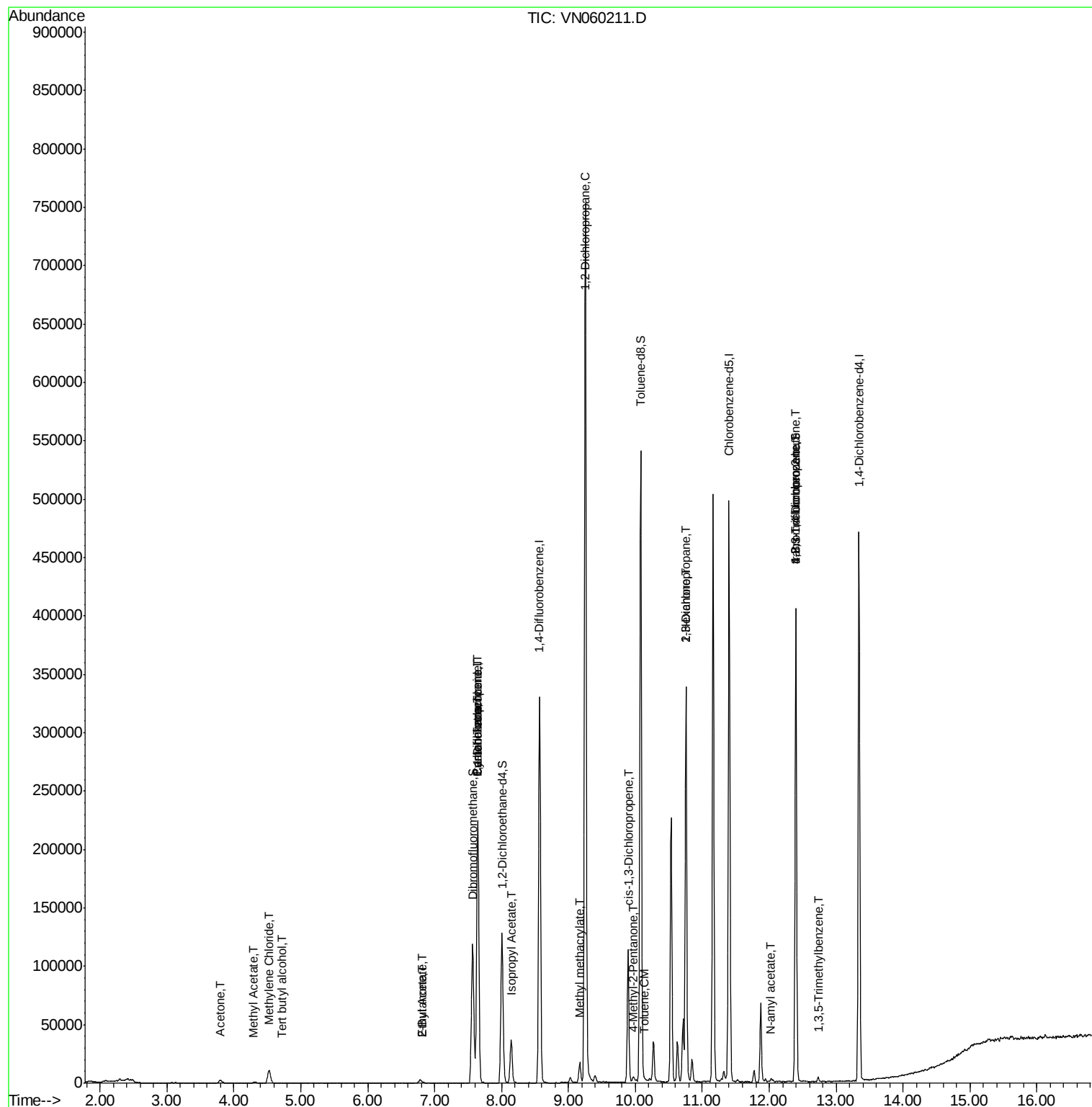
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	94	0.27	ug/l #	72
16) Acetone	3.80	43	4497	4.39	ug/l	98
18) Methyl Acetate	4.29	43	406	0.21	ug/l #	50
20) Methylene Chloride	4.53	84	8879	4.35	ug/l	96
25) 2-Butanone	6.82	43	1565	1.22	ug/l #	46
31) Cyclohexane	7.64	56	3823	1.15	ug/l #	2
36) 1,1-Dichloropropene	7.64	75	13758	4.92	ug/l #	49
37) Ethyl Acetate	6.82	43	1565	0.62	ug/l #	68
38) Carbon Tetrachloride	7.64	117	18349	6.04	ug/l #	15
43) Isopropyl Acetate	8.14	43	43647	10.09	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	814	0.40	ug/l #	43
48) Methyl methacrylate	9.16	41	2288	1.18	ug/l #	9
51) 4-Methyl-2-Pentanone	9.97	43	3108	1.24	ug/l #	85
52) Toluene	10.14	92	1116	0.21	ug/l	92
54) cis-1,3-Dichloropropene	9.89	75	20488	5.84	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	3847	1.12	ug/l #	43
59) 2-Hexanone	10.76	43	48910	25.30	ug/l #	51
74) N-amyl acetate	12.03	43	1599	0.46	ug/l #	43
76) 1,2,3-Trichloropropane	12.40	75	68924	27.84	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2562	0.32	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	68924	68.18	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.37	75	61	Below Cal	#	1

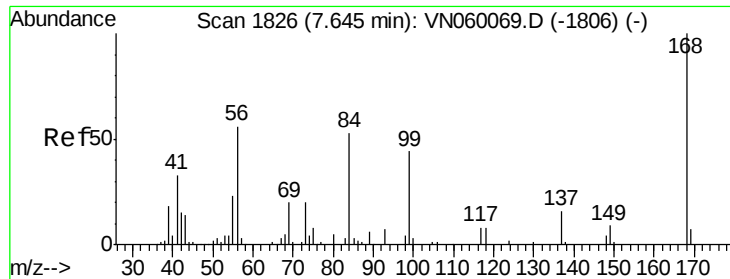
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Feb 12 14:12:21 2020
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN060211.D

Acq: 24 Feb 2020 15:40

Instrument :

MSVOA_N

ClientSampleId :

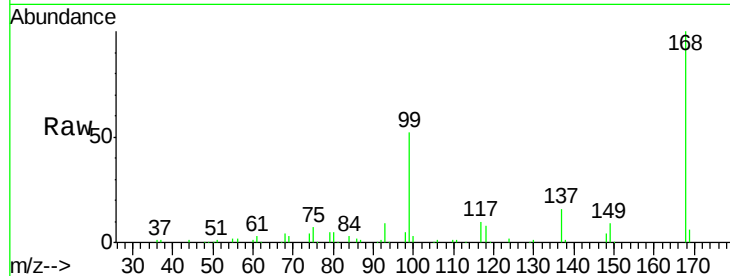
PB127001ZHE#04

Tgt Ion:168 Resp: 192922

Ion Ratio Lower Upper

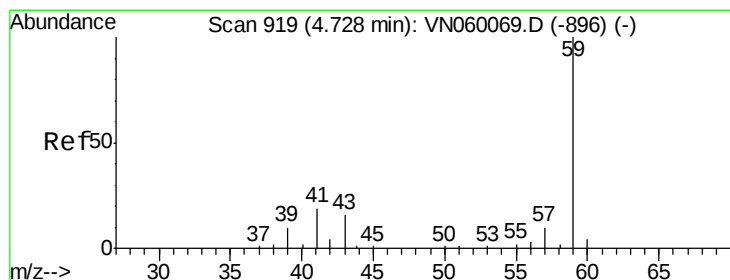
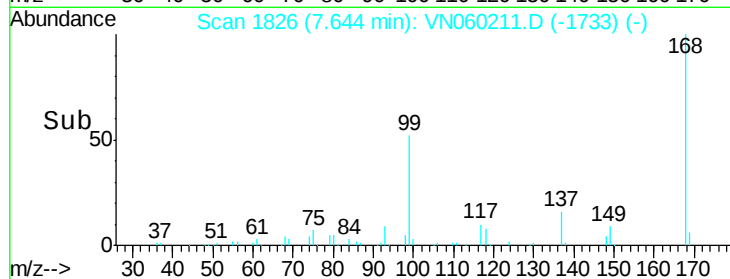
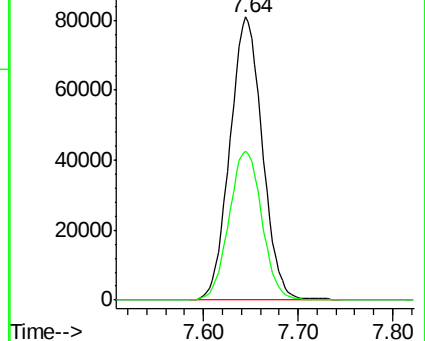
168 100

99 52.4 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 0.27 ug/l

RT: 4.72 min Scan# 918

Delta R.T. -0.00 min

Lab File: VN060211.D

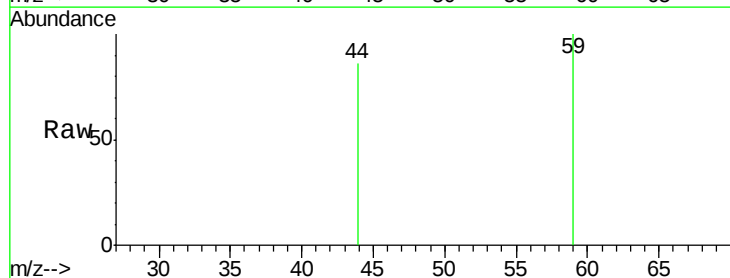
Acq: 24 Feb 2020 15:40

Tgt Ion: 59 Resp: 94

Ion Ratio Lower Upper

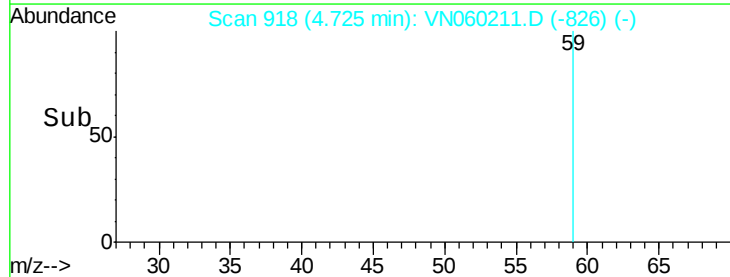
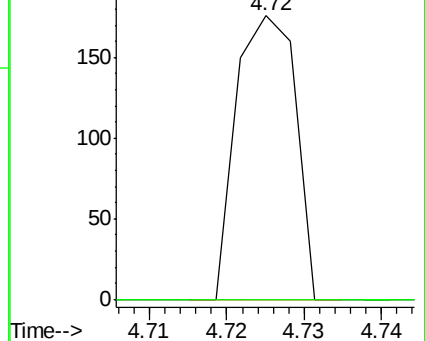
59 100

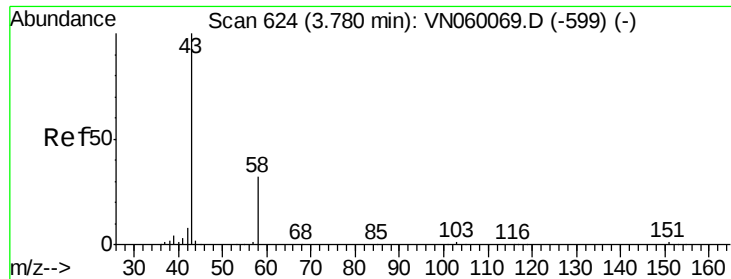
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 4.39 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.02 min

Lab File: VN060211.D

Acq: 24 Feb 2020 15:40

Instrument :

MSVOA_N

ClientSampleId :

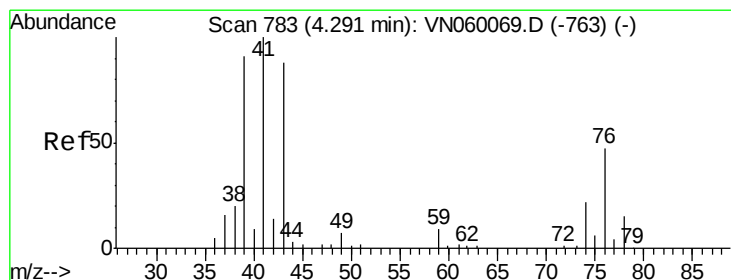
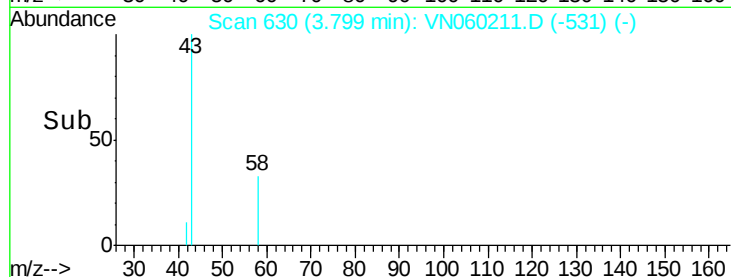
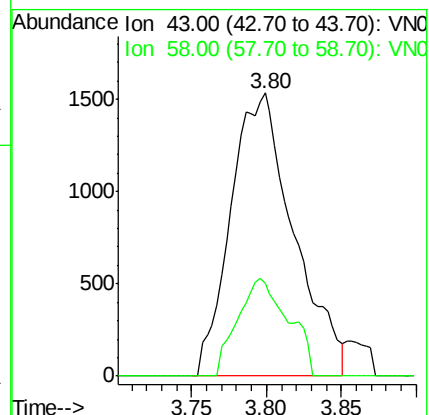
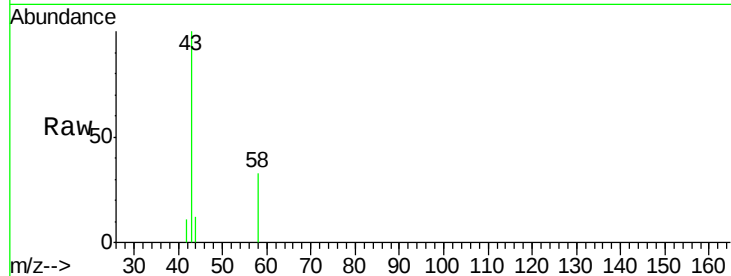
PB127001ZHE#04

Tgt Ion: 43 Resp: 4497

Ion Ratio Lower Upper

43 100

58 32.6 25.2 37.8



#18

Methyl Acetate

Concen: 0.21 ug/l

RT: 4.29 min Scan# 782

Delta R.T. -0.00 min

Lab File: VN060211.D

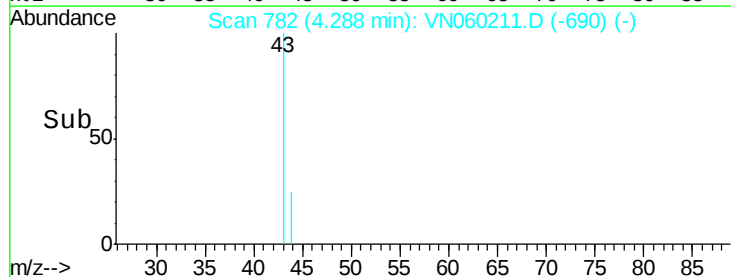
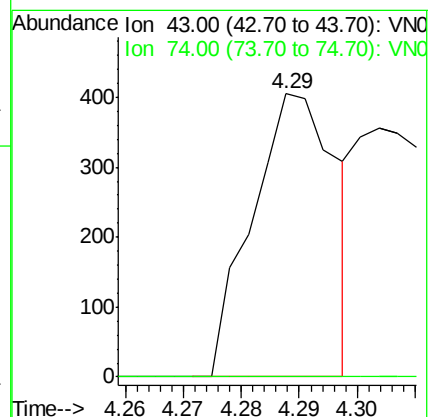
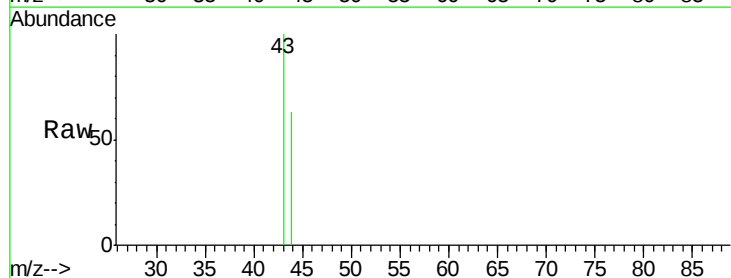
Acq: 24 Feb 2020 15:40

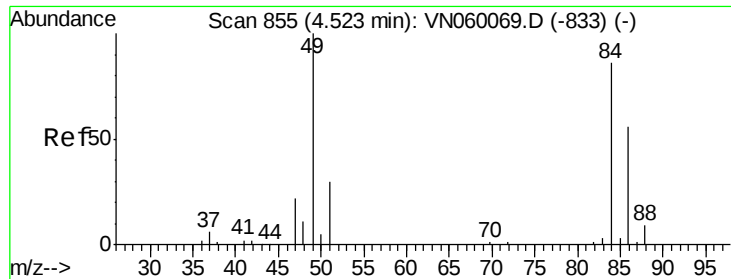
Tgt Ion: 43 Resp: 406

Ion Ratio Lower Upper

43 100

74 0.0 20.3 30.5#

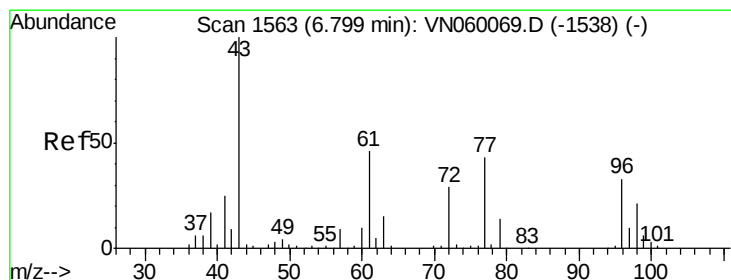
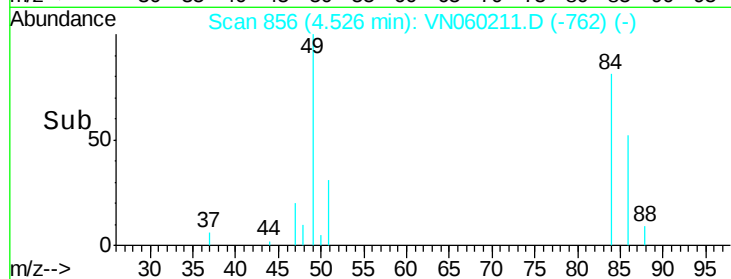
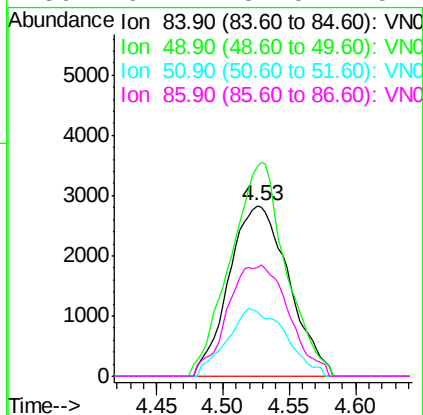
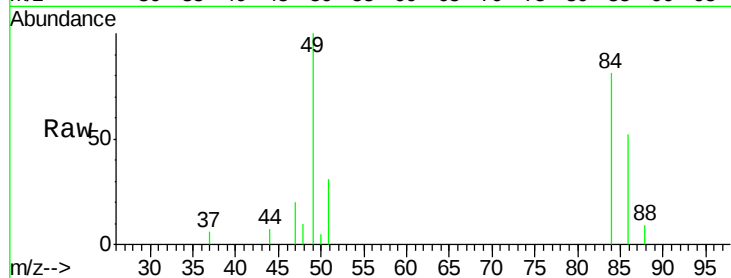




#20
Methylene Chloride
Concen: 4.35 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060211.D
Acq: 24 Feb 2020 15:40

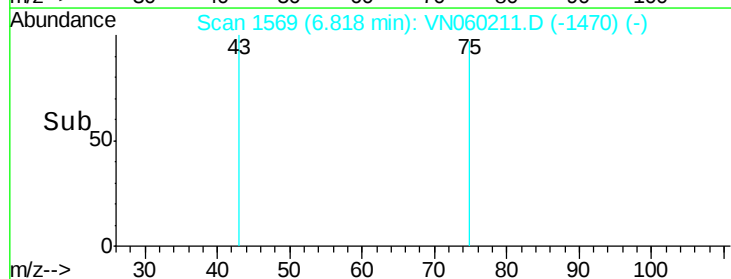
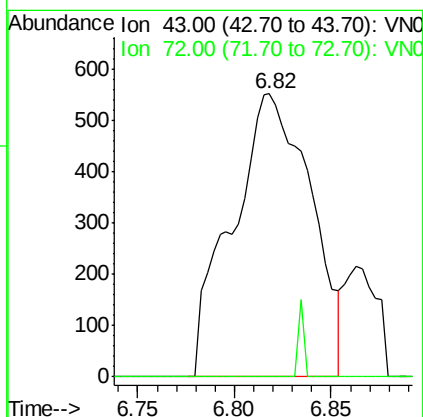
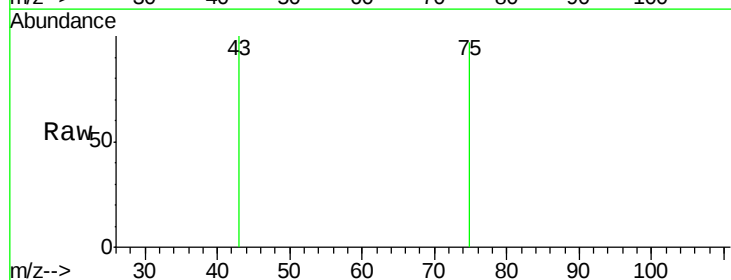
Instrument :
MSVOA_N
ClientSampleId :
PB127001ZHE#04

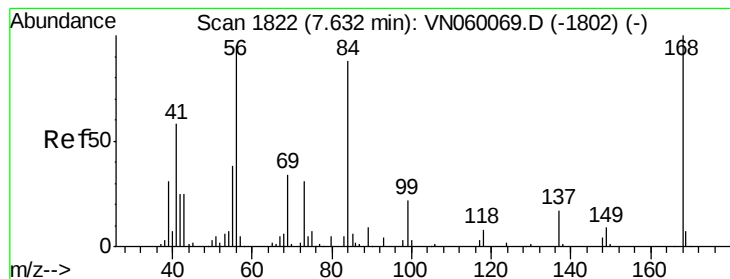
Tgt Ion: 84 Resp: 8879
Ion Ratio Lower Upper
84 100
49 122.9 93.4 140.0
51 37.5 28.4 42.6
86 64.1 52.5 78.7



#25
2-Butanone
Concen: 1.22 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. 0.02 min
Lab File: VN060211.D
Acq: 24 Feb 2020 15:40

Tgt Ion: 43 Resp: 1565
Ion Ratio Lower Upper
43 100
72 0.0 23.3 34.9#





#31

Cyclohexane

Concen: 1.15 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN060211.D

Acq: 24 Feb 2020 15:40

Instrument :

MSVOA_N

ClientSampleId :

PB127001ZHE#04

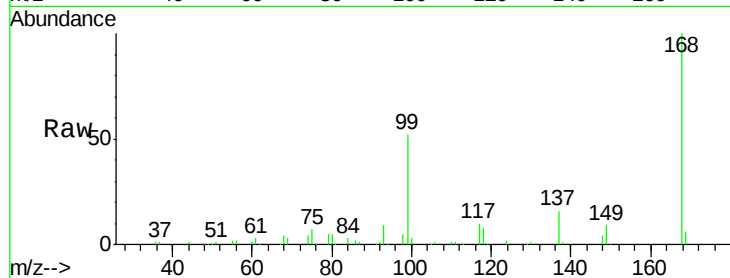
Tgt Ion: 56 Resp: 3823

Ion Ratio Lower Upper

56 100

69 170.3 28.3 42.5#

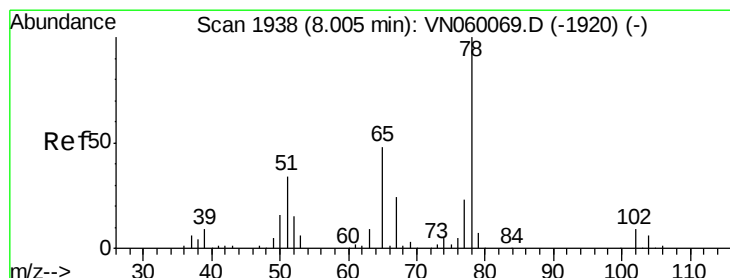
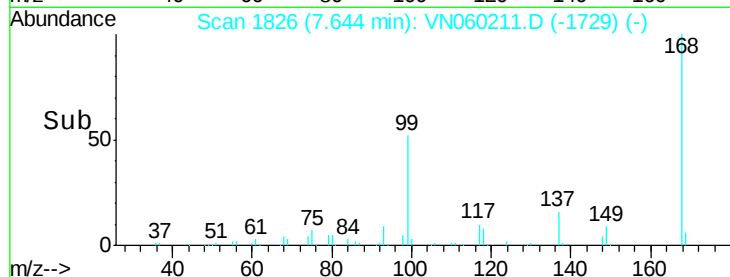
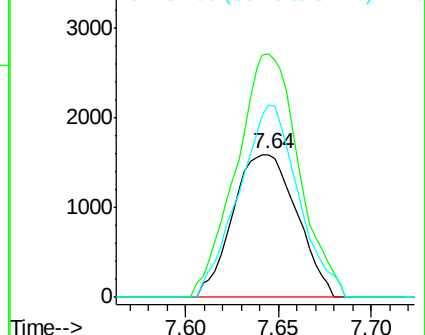
84 134.3 72.6 108.8#



Abundance Ion 56.00 (55.70 to 56.70): VN060069.D (-1802) (-)

Ion 69.00 (68.70 to 69.70): VN060069.D (-1802) (-)

Ion 84.00 (83.70 to 84.70): VN060069.D (-1802) (-)



#33

1,2-Dichloroethane-d4

Concen: 48.57 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN060211.D

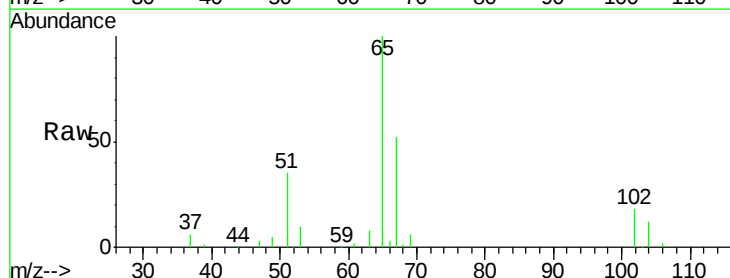
Acq: 24 Feb 2020 15:40

Tgt Ion: 65 Resp: 114024

Ion Ratio Lower Upper

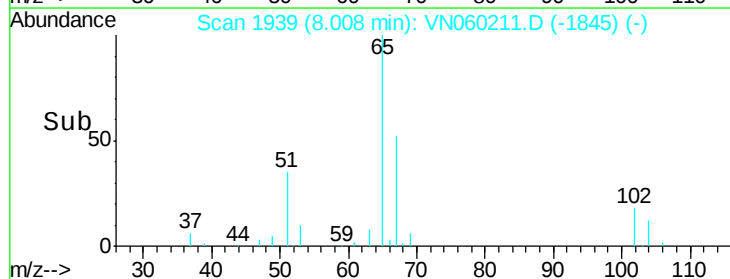
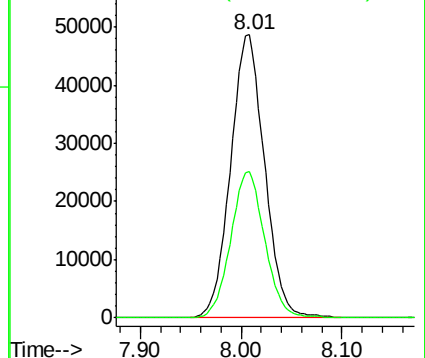
65 100

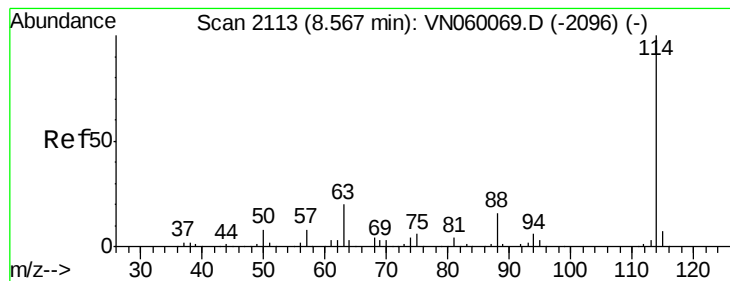
67 51.7 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN060069.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN060069.D (-1920) (-)





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VN060211.D

Acq: 24 Feb 2020 15:40

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MSVOA_N

ClientSampleId :

PB127001ZHE#04

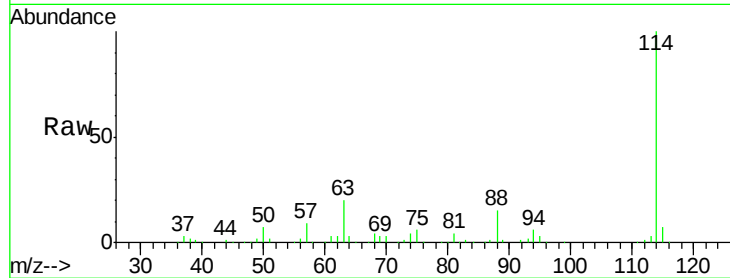
Tgt Ion:114 Resp: 302154

Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.0

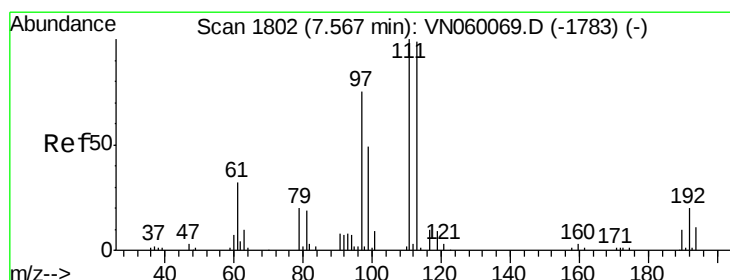
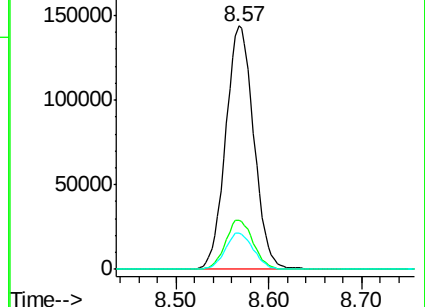
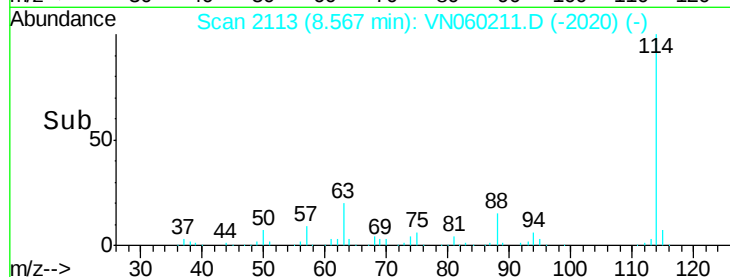
88 15.1 0.0 31.6



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: 49.04 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VN060211.D

Acq: 24 Feb 2020 15:40

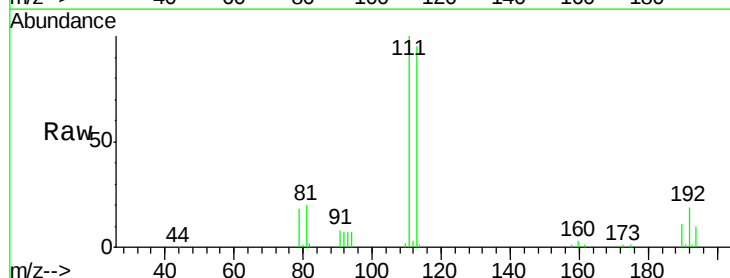
Tgt Ion:113 Resp: 91089

Ion Ratio Lower Upper

113 100

111 103.1 81.4 122.2

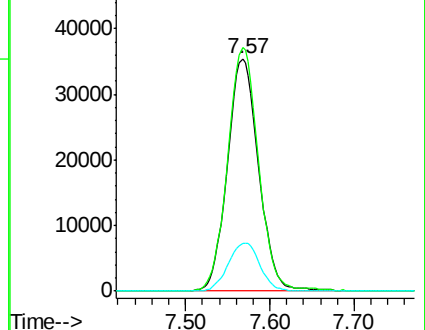
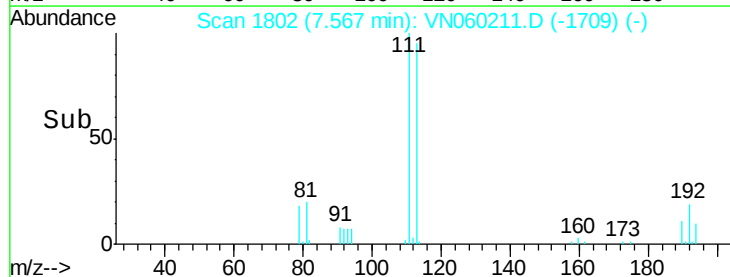
192 21.0 16.2 24.2

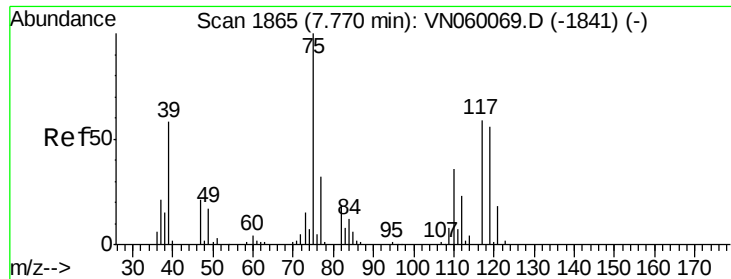


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

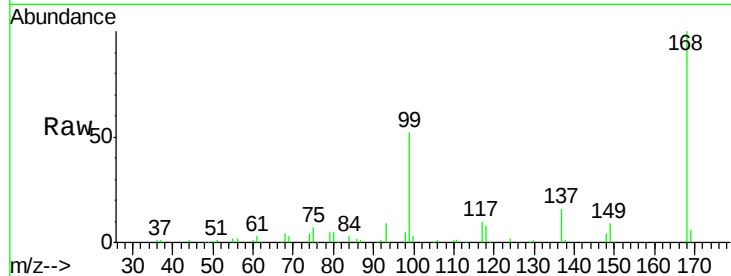




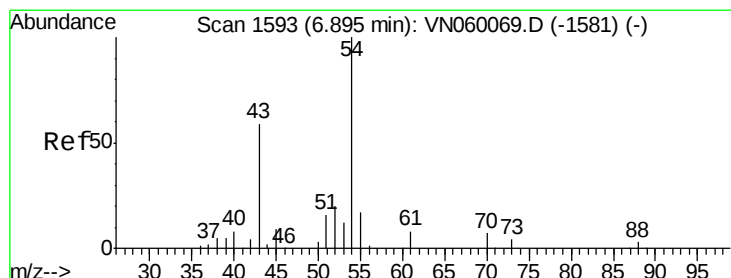
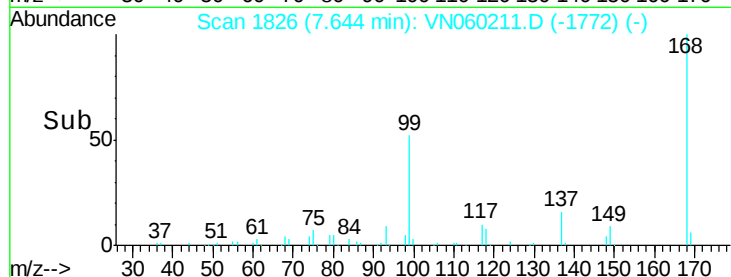
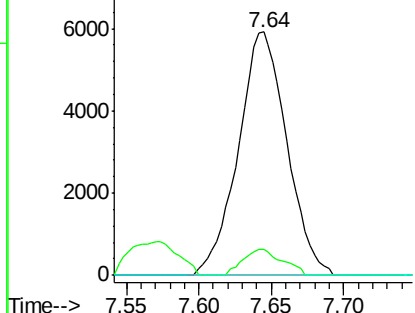
#36
 1,1-Dichloropropene
 Concen: 4.92 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060211.D
 Acq: 24 Feb 2020 15:40

Instrument :
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 PB127001ZHE#04

Tgt Ion: 75 Resp: 13758
 Ion Ratio Lower Upper
 75 100
 110 8.7 18.1 54.3#
 77 0.0 25.1 37.7#

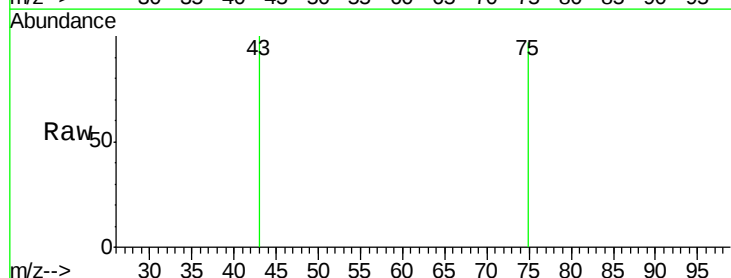


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0

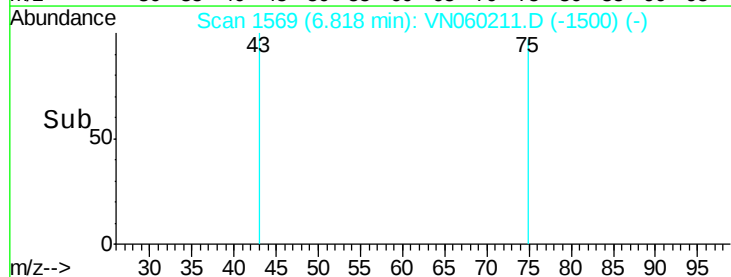
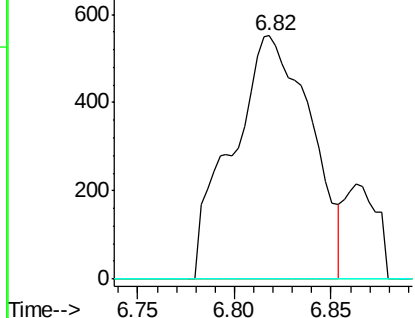


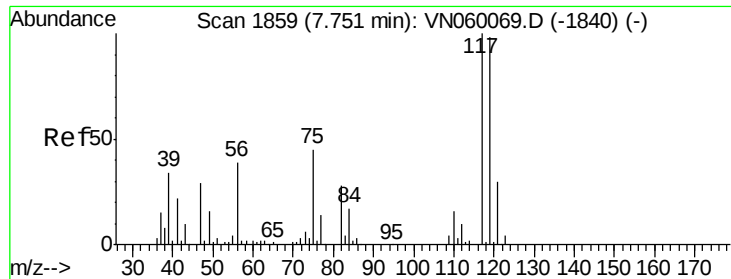
#37
 Ethyl Acetate
 Concen: 0.62 ug/l
 RT: 6.82 min Scan# 1569
 Delta R.T. -0.08 min
 Lab File: VN060211.D
 Acq: 24 Feb 2020 15:40

Tgt Ion: 43 Resp: 1565
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.4 17.2#
 70 0.0 8.7 13.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 70.00 (69.70 to 70.70): VN0

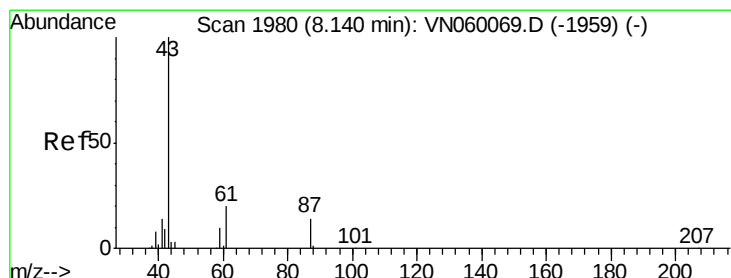
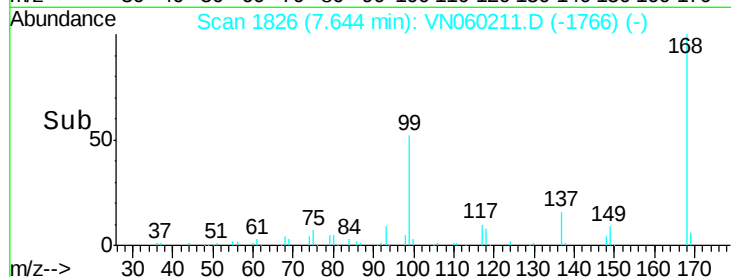
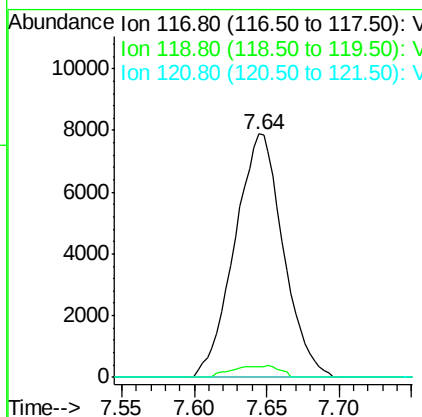
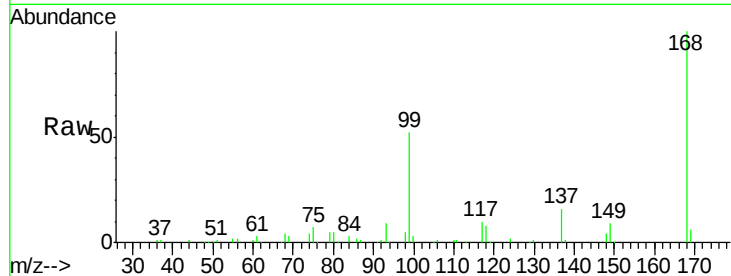




#38
Carbon Tetrachloride
Concen: 6.04 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN060211.D
Acq: 24 Feb 2020 15:40

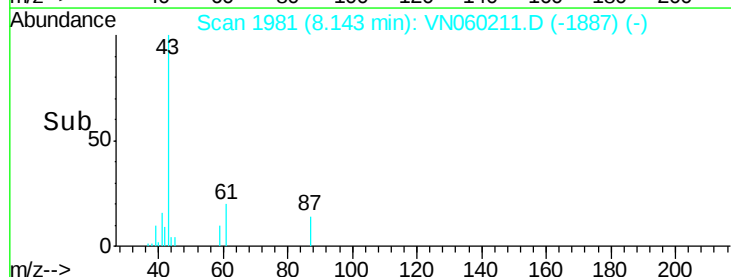
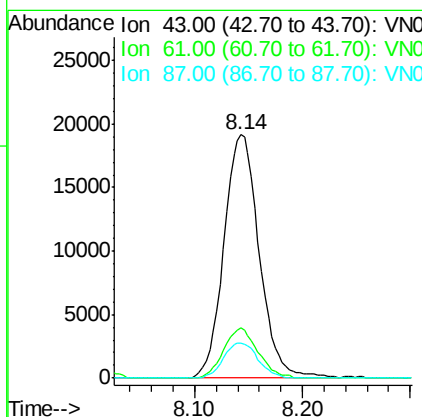
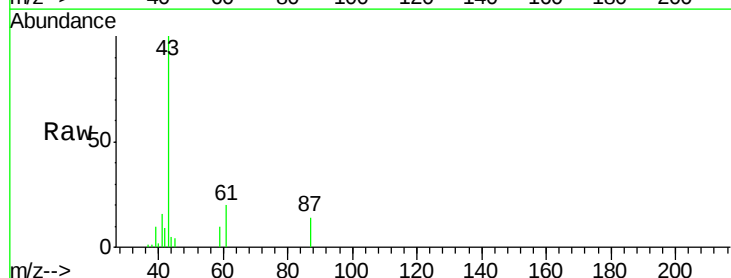
Instrument :
MSVOA_N
ClientSampleId :
PB127001ZHE#04

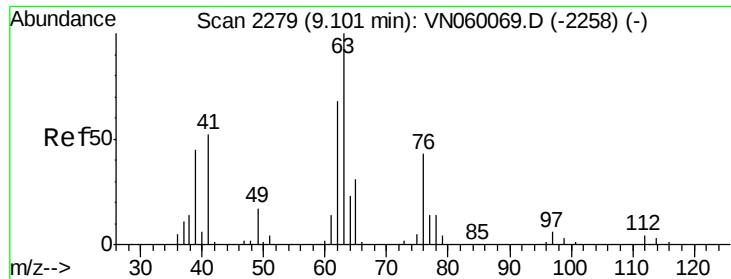
Tgt Ion: 117 Resp: 18349
Ion Ratio Lower Upper
117 100
119 4.3 78.2 117.4#
121 0.0 24.2 36.2#



#43
Isopropyl Acetate
Concen: 10.09 ug/l
RT: 8.14 min Scan# 1981
Delta R.T. 0.00 min
Lab File: VN060211.D
Acq: 24 Feb 2020 15:40

Tgt Ion: 43 Resp: 43647
Ion Ratio Lower Upper
43 100
61 19.8 21.8 32.6#
87 14.0 11.4 17.2

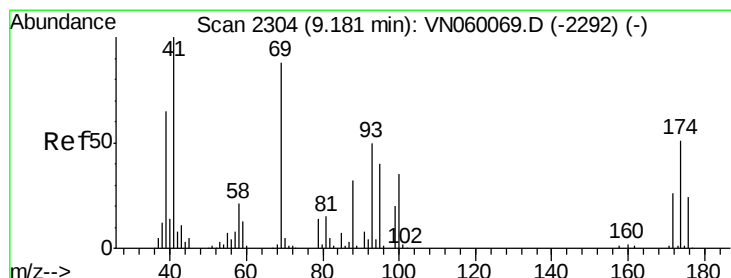
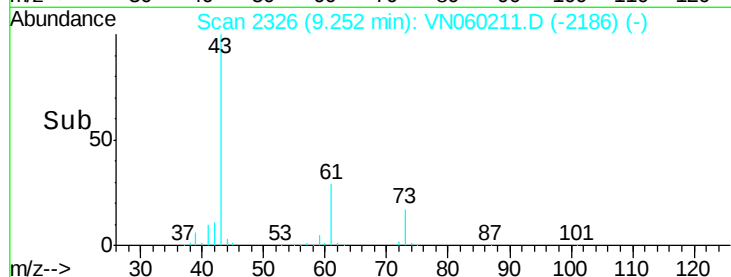
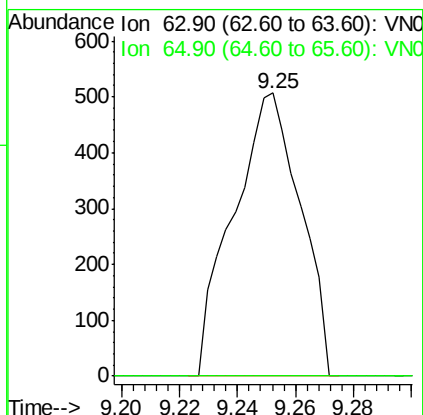
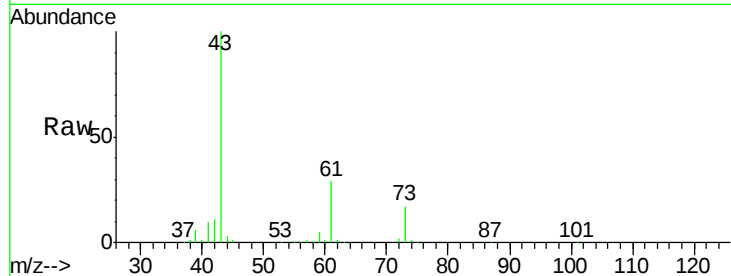




#45
 1,2-Dichloropropane
 Concen: 0.40 ug/l
 RT: 9.25 min Scan# 2326
 Delta R.T. 0.15 min
 Lab File: VN060211.D
 Acq: 24 Feb 2020 15:40

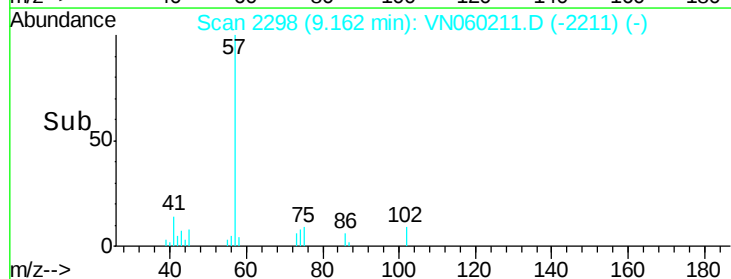
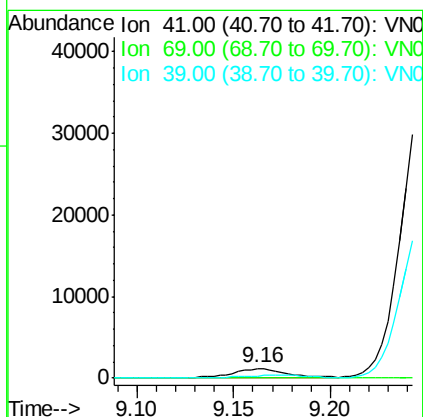
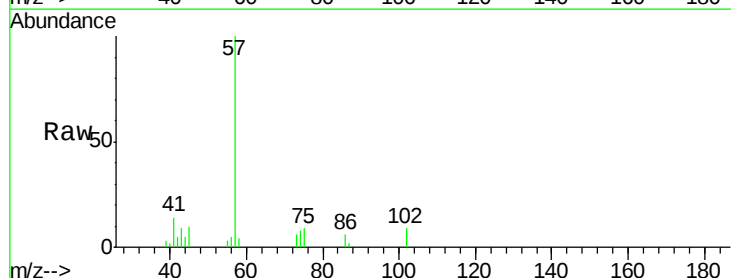
Instrument :
 MSVOA_N
 ClientSampleId :
 PB127001ZHE#04

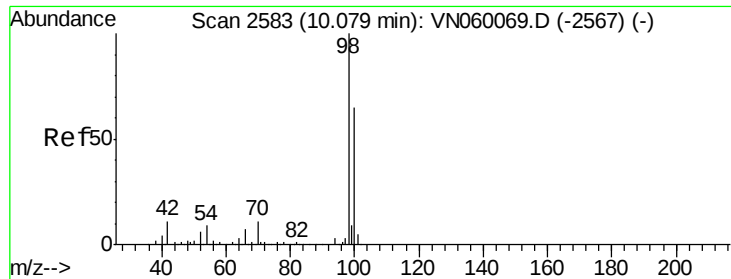
Tgt Ion: 63 Resp: 814
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.18 ug/l
 RT: 9.16 min Scan# 2298
 Delta R.T. -0.02 min
 Lab File: VN060211.D
 Acq: 24 Feb 2020 15:40

Tgt Ion: 41 Resp: 2288
 Ion Ratio Lower Upper
 41 100
 69 0.0 72.0 108.0#
 39 0.0 54.1 81.1#





#50

Toluene-d8

Concen: 50.28 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN060211.D

Acq: 24 Feb 2020 15:40

Instrument :

MSVOA_N

ClientSampleId :

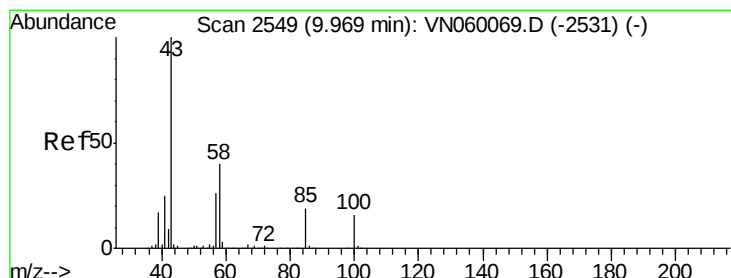
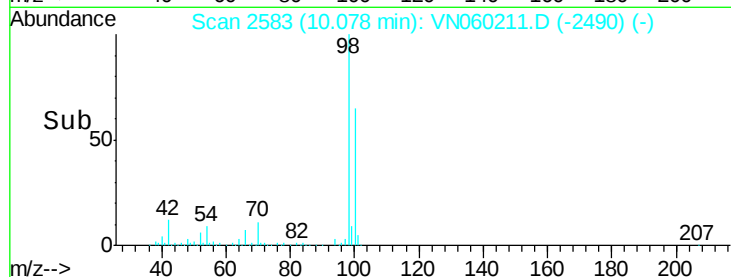
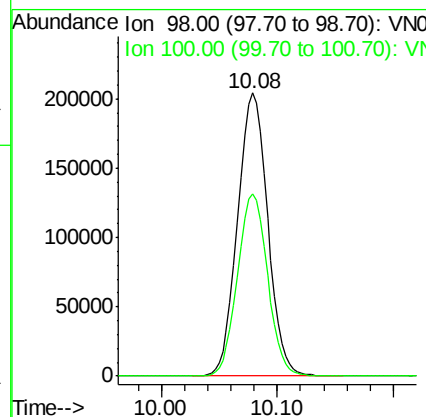
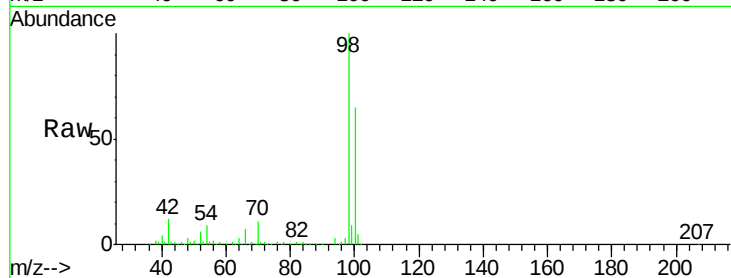
PB127001ZHE#04

Tgt Ion: 98 Resp: 367771

Ion Ratio Lower Upper

98 100

100 64.4 51.7 77.5



#51

4-Methyl-2-Pentanone

Concen: 1.24 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN060211.D

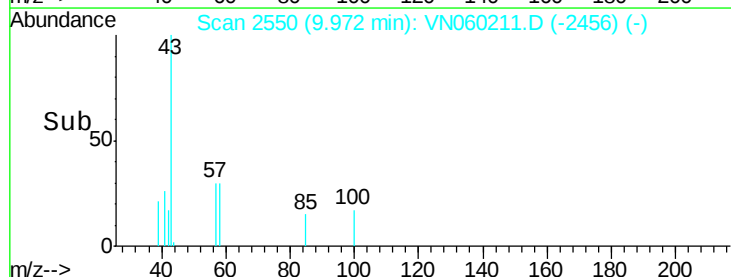
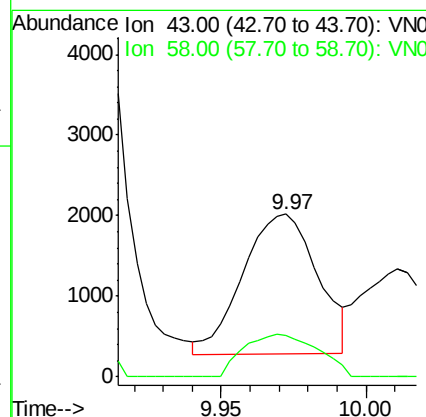
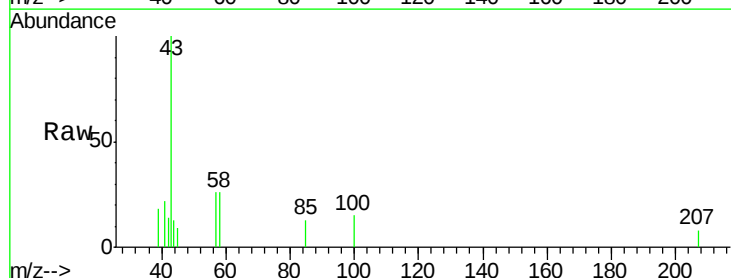
Acq: 24 Feb 2020 15:40

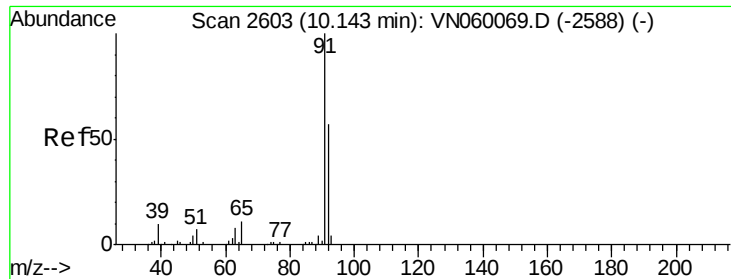
Tgt Ion: 43 Resp: 3108

Ion Ratio Lower Upper

43 100

58 30.4 31.8 47.8#





#52

Toluene

Concen: 0.21 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VN060211.D

Acq: 24 Feb 2020 15:40

Instrument :

MSVOA_N

ClientSampleId :

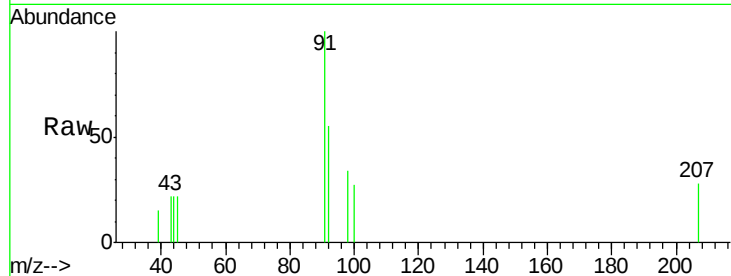
PB127001ZHE#04

Tgt Ion: 92 Resp: 1116

Ion Ratio Lower Upper

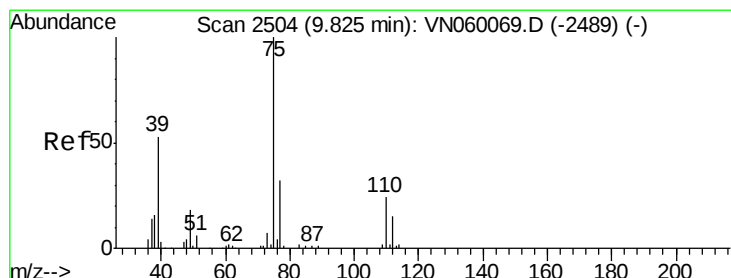
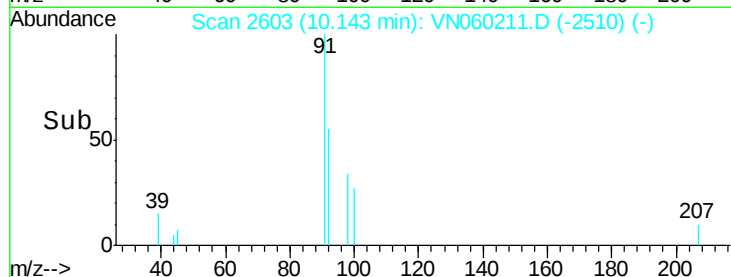
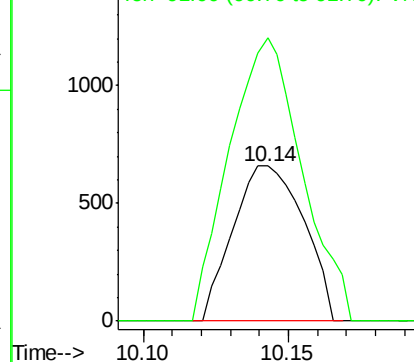
92 100

91 187.4 140.9 211.3



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.84 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060211.D

Acq: 24 Feb 2020 15:40

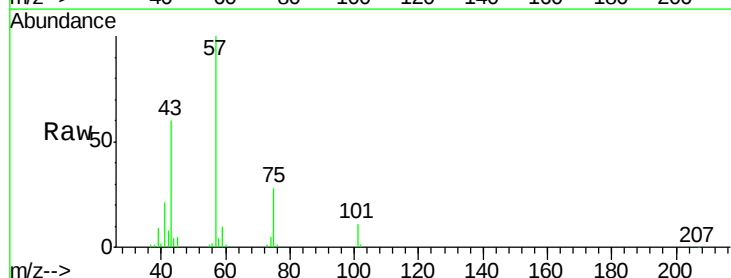
Tgt Ion: 75 Resp: 20488

Ion Ratio Lower Upper

75 100

77 0.0 25.6 38.4#

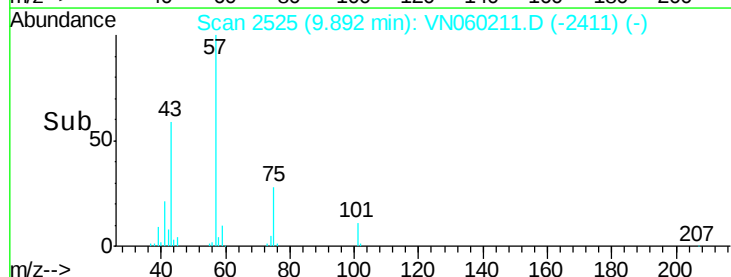
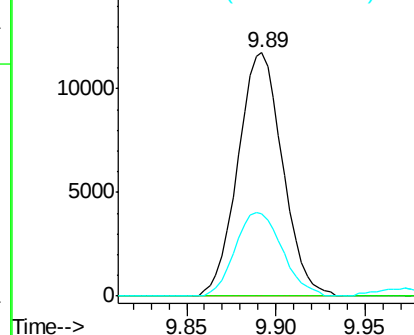
39 33.6 42.2 63.4#

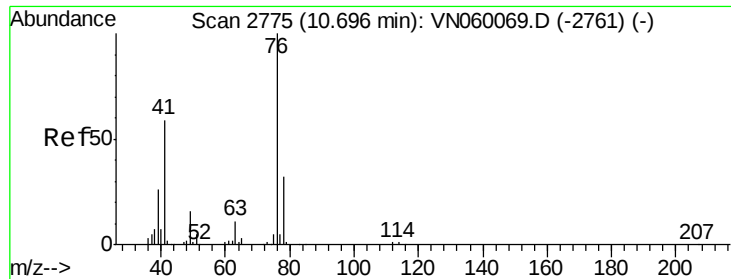


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.12 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.06 min

Lab File: VN060211.D

Acq: 24 Feb 2020 15:40

Instrument :

MSVOA_N

ClientSampleId :

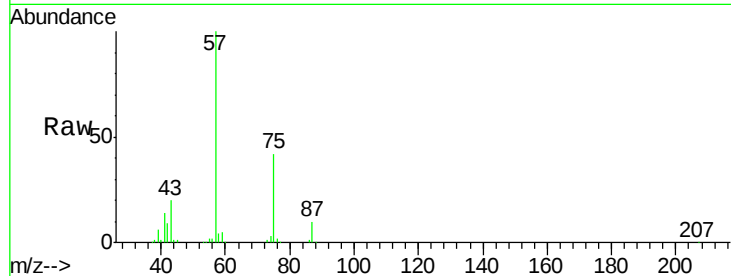
PB127001ZHE#04

Tgt Ion: 76 Resp: 3847

Ion Ratio Lower Upper

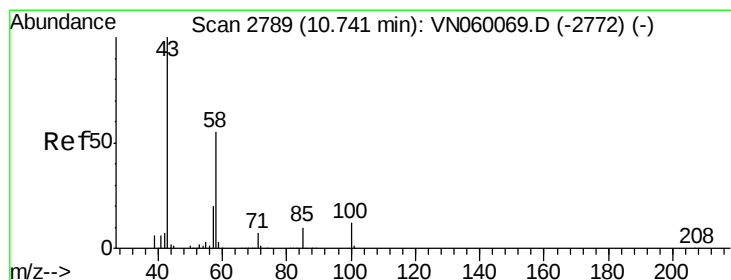
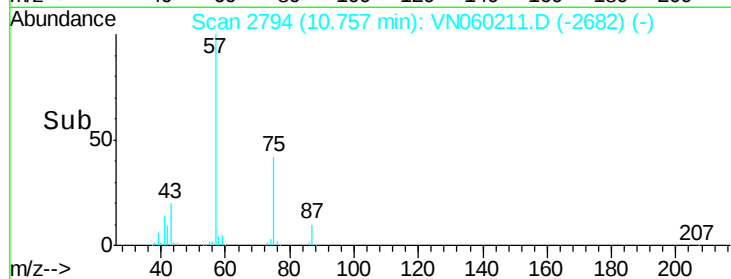
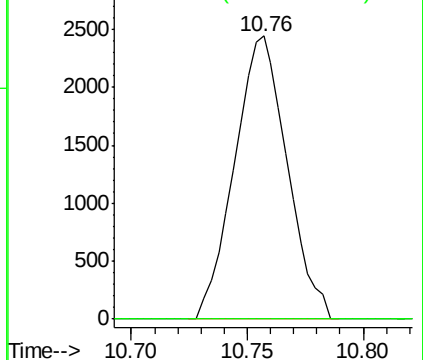
76 100

78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 25.30 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.02 min

Lab File: VN060211.D

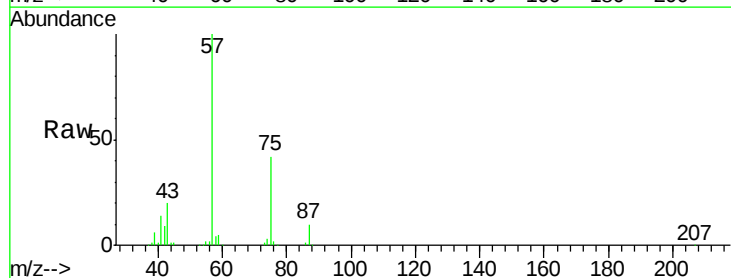
Acq: 24 Feb 2020 15:40

Tgt Ion: 43 Resp: 48910

Ion Ratio Lower Upper

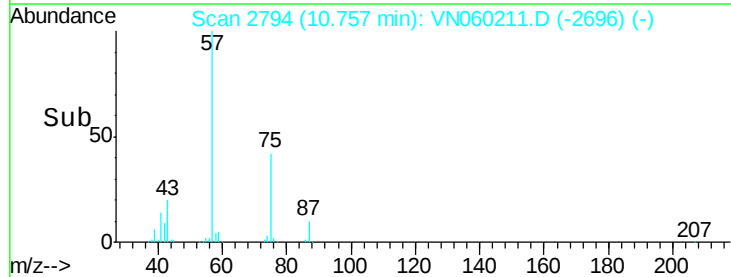
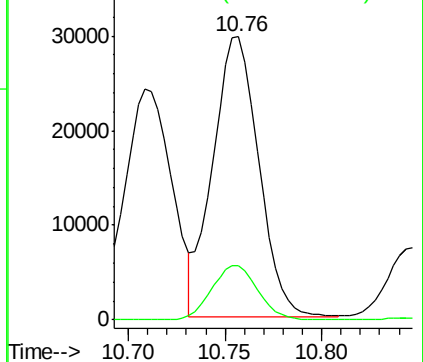
43 100

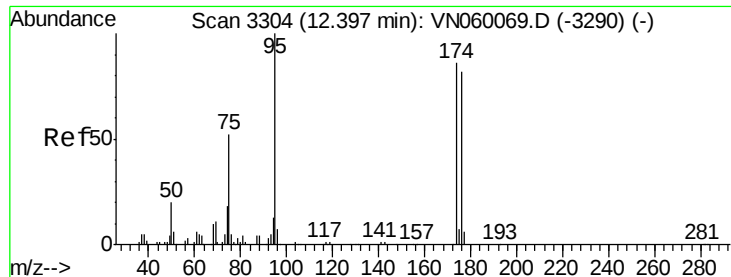
58 19.5 27.5 82.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 49.62 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060211.D

Acq: 24 Feb 2020 15:40

Instrument :

MSVOA_N

ClientSampleId :

PB127001ZHE#04

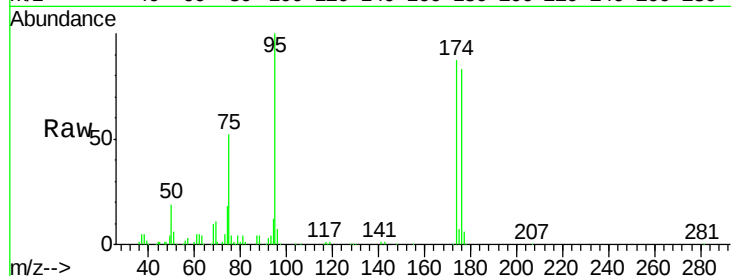
Tgt Ion: 95 Resp: 133364

Ion Ratio Lower Upper

95 100

174 86.8 0.0 169.8

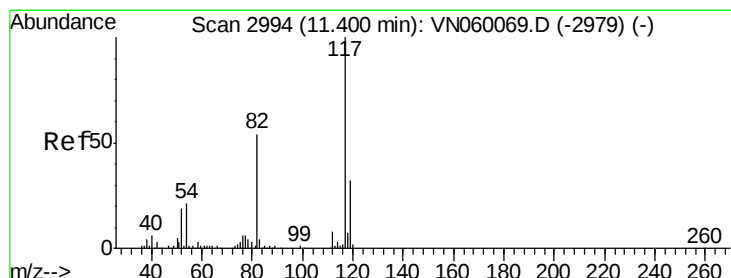
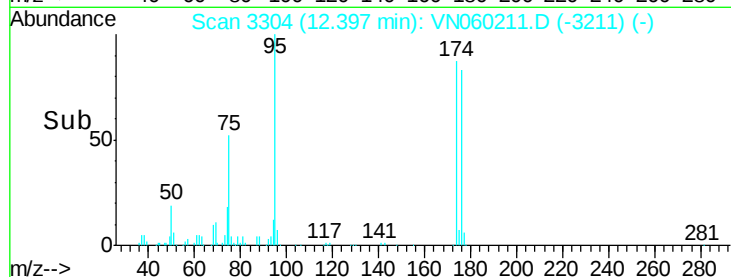
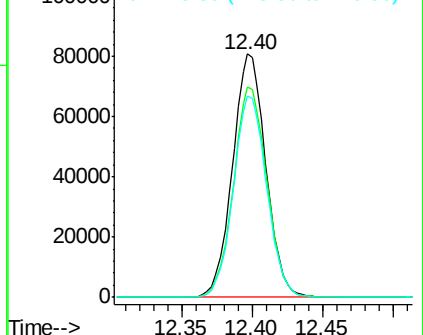
176 83.0 0.0 164.8



Abundance Ion 94.90 (94.60 to 95.60): VN060211.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060211.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060211.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN060211.D

Acq: 24 Feb 2020 15:40

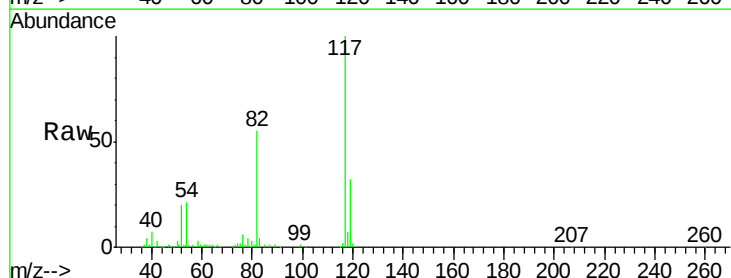
Tgt Ion: 117 Resp: 290292

Ion Ratio Lower Upper

117 100

82 54.5 43.4 65.0

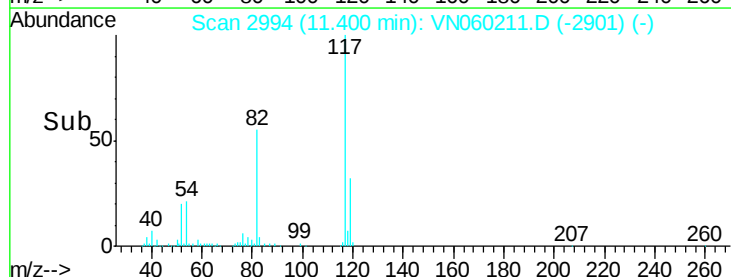
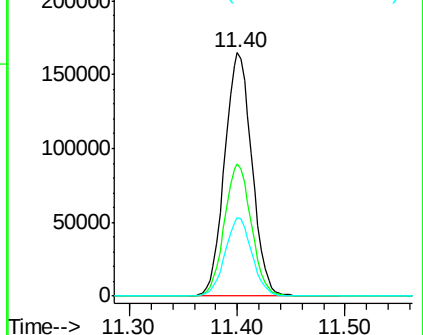
119 32.4 25.8 38.6

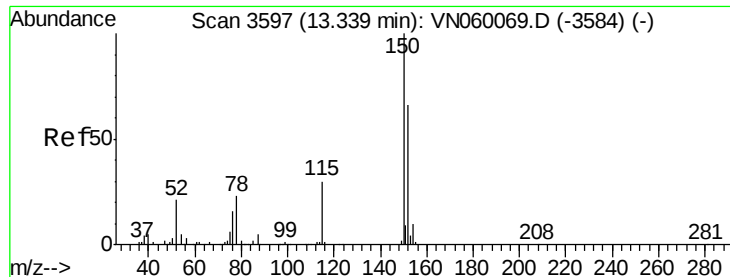


Abundance Ion 116.90 (116.60 to 117.60): VN060211.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060211.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060211.D (-2901) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN060211.D

Acq: 24 Feb 2020 15:40

Instrument :

MSVOA_N

ClientSampleId :

PB127001ZHE#04

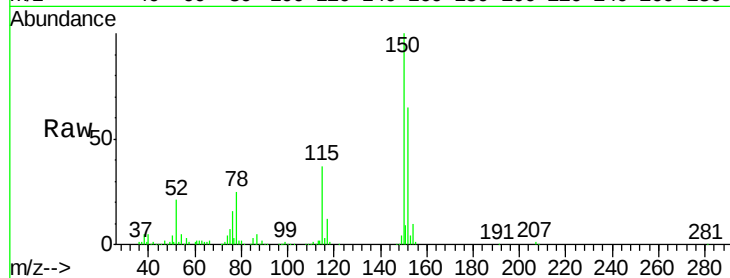
Tgt Ion:152 Resp: 129384

Ion Ratio Lower Upper

152 100

115 57.9 28.9 86.8

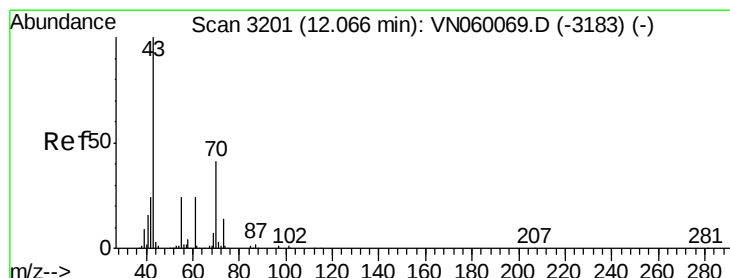
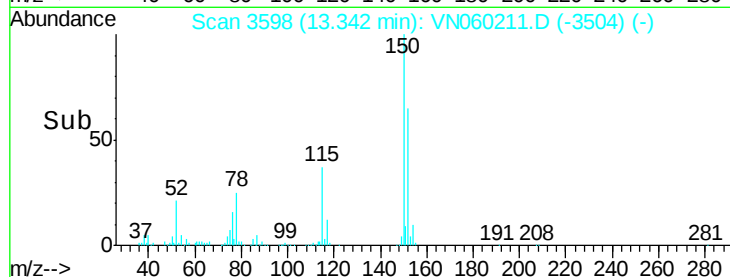
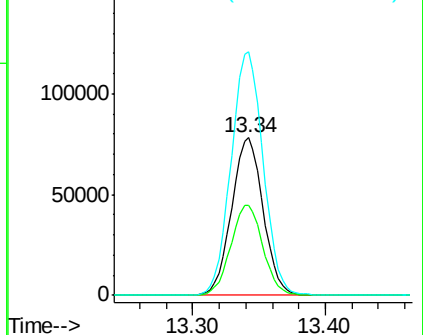
150 156.7 0.0 342.4



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: 0.46 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN060211.D

Acq: 24 Feb 2020 15:40

Tgt Ion: 43 Resp: 1599

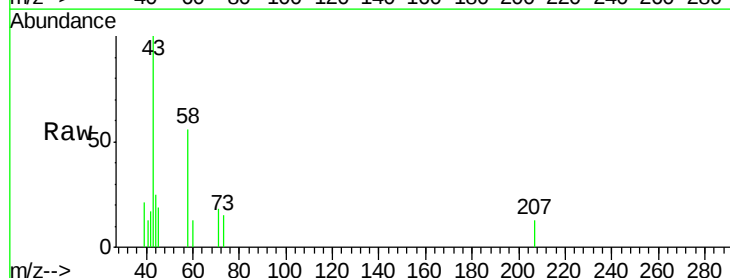
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 0.0 18.8 28.2#

61 0.0 19.2 28.8#

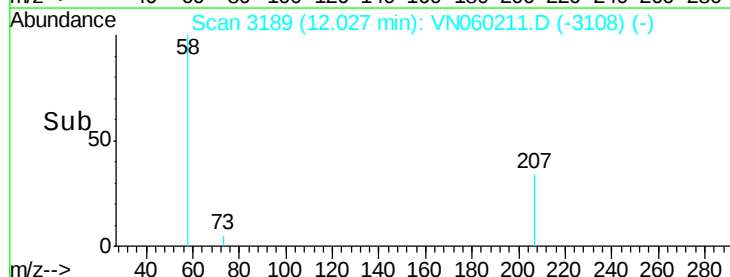
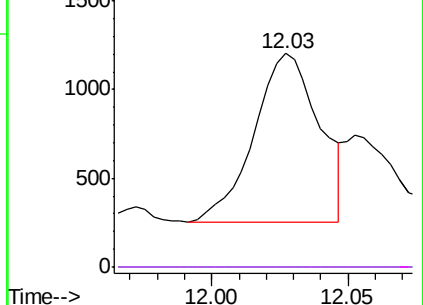


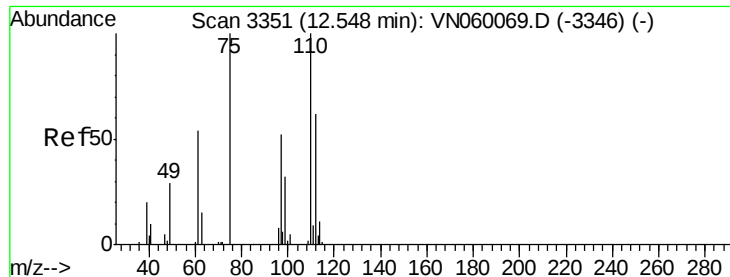
Abundance Ion 43.00 (42.70 to 43.70): V

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

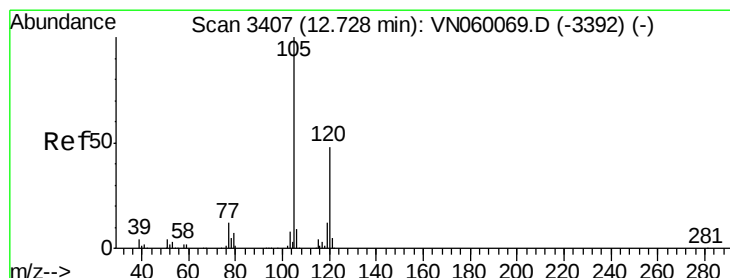
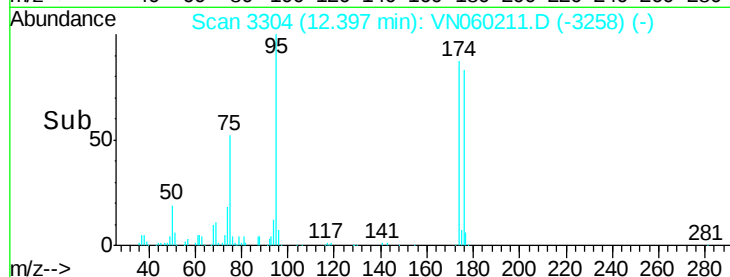
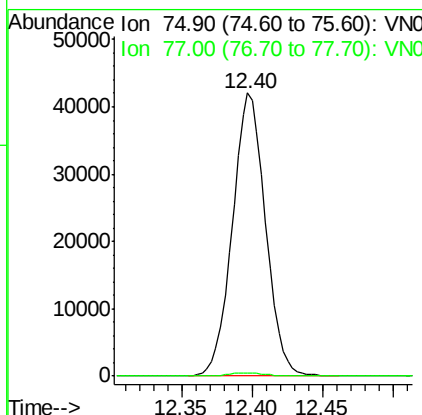
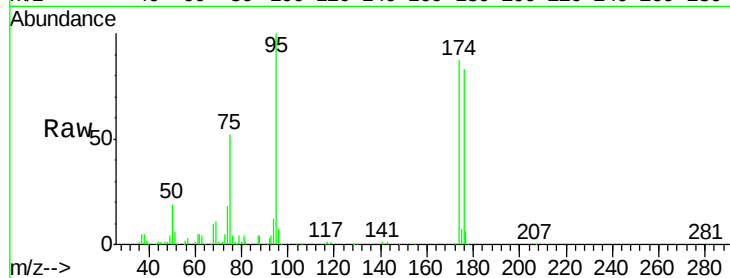




#76
 1,2,3-Trichloropropane
 Concen: 27.84 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. -0.15 min
 Lab File: VN060211.D
 Acq: 24 Feb 2020 15:40

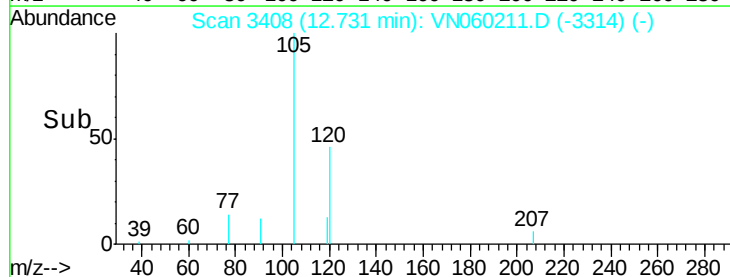
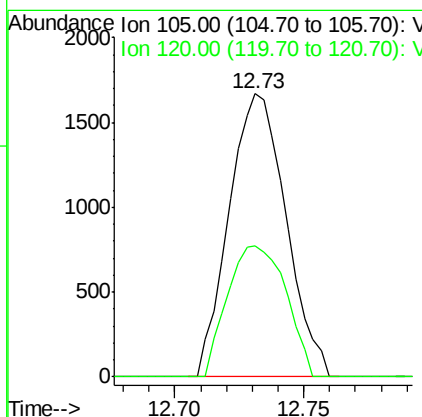
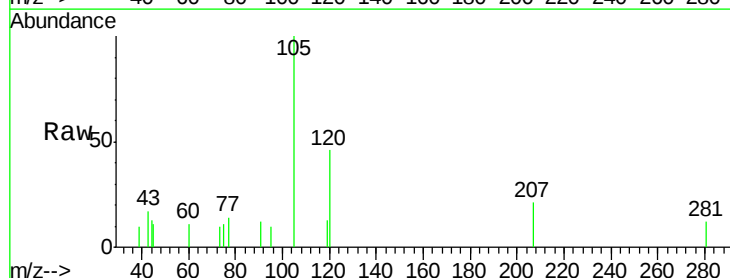
Instrument :
 MSVOA_N
 ClientSampleId :
 PB127001ZHE#04

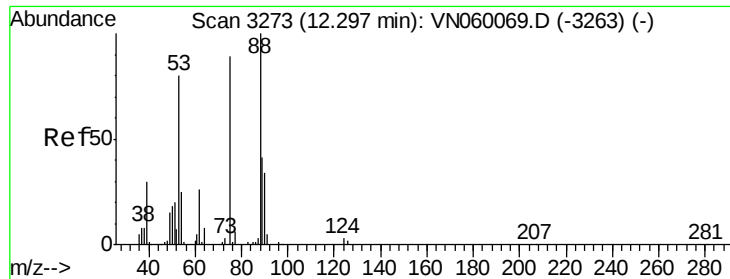
Tgt Ion: 75 Resp: 68924
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.32 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN060211.D
 Acq: 24 Feb 2020 15:40

Tgt Ion: 105 Resp: 2562
 Ion Ratio Lower Upper
 105 100
 120 47.6 24.3 72.9

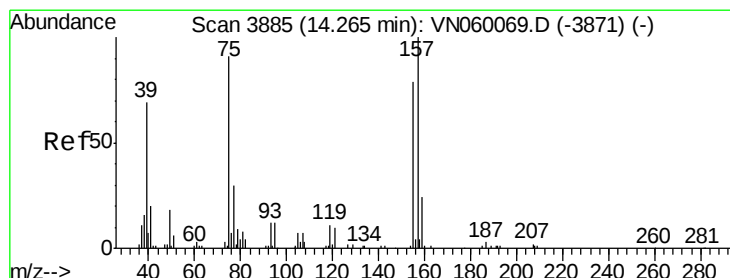
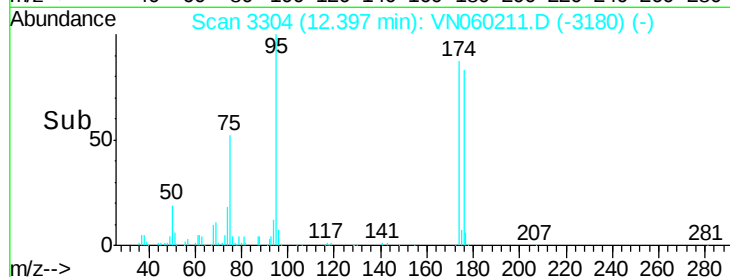
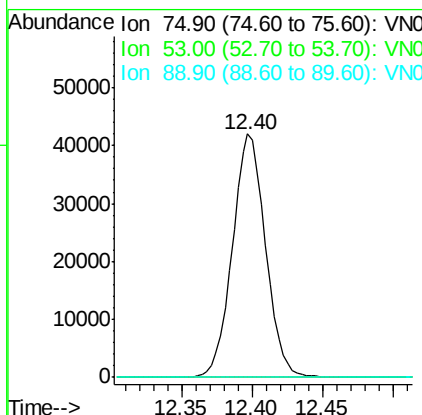
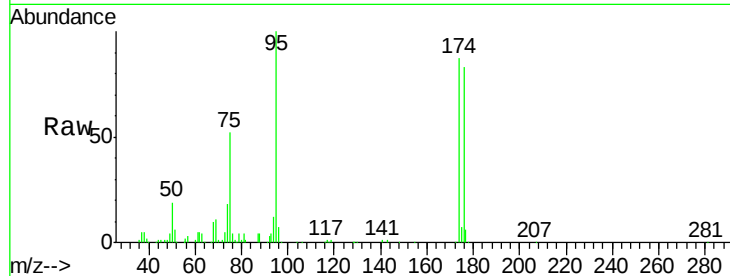




#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.18 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN060211.D
 Acq: 24 Feb 2020 15:40

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127001ZHE#04

Tgt Ion: 75 Resp: 68924
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.9 110.9#
 89 0.0 37.0 55.4#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.37 min Scan# 3917
 Delta R.T. 0.10 min
 Lab File: VN060211.D
 Acq: 24 Feb 2020 15:40

Tgt Ion: 75 Resp: 61
 Ion Ratio Lower Upper
 75 100
 155 0.0 43.0 129.0#
 157 0.0 54.9 164.5#

