

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN022420\
 Data File : VN060202.D
 Acq On : 24 Feb 2020 12:15
 Operator : JC/MD
 Sample : PB127002TB
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127002TB

Quant Time: Feb 24 15:49:03 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	189832	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	300007	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	285946	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	127706	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	111548	48.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.58%	
35) Dibromofluoromethane	7.57	113	91106	49.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.80%	
50) Toluene-d8	10.08	98	364016	50.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.26%	
62) 4-Bromofluorobenzene	12.40	95	132990	49.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.68%	

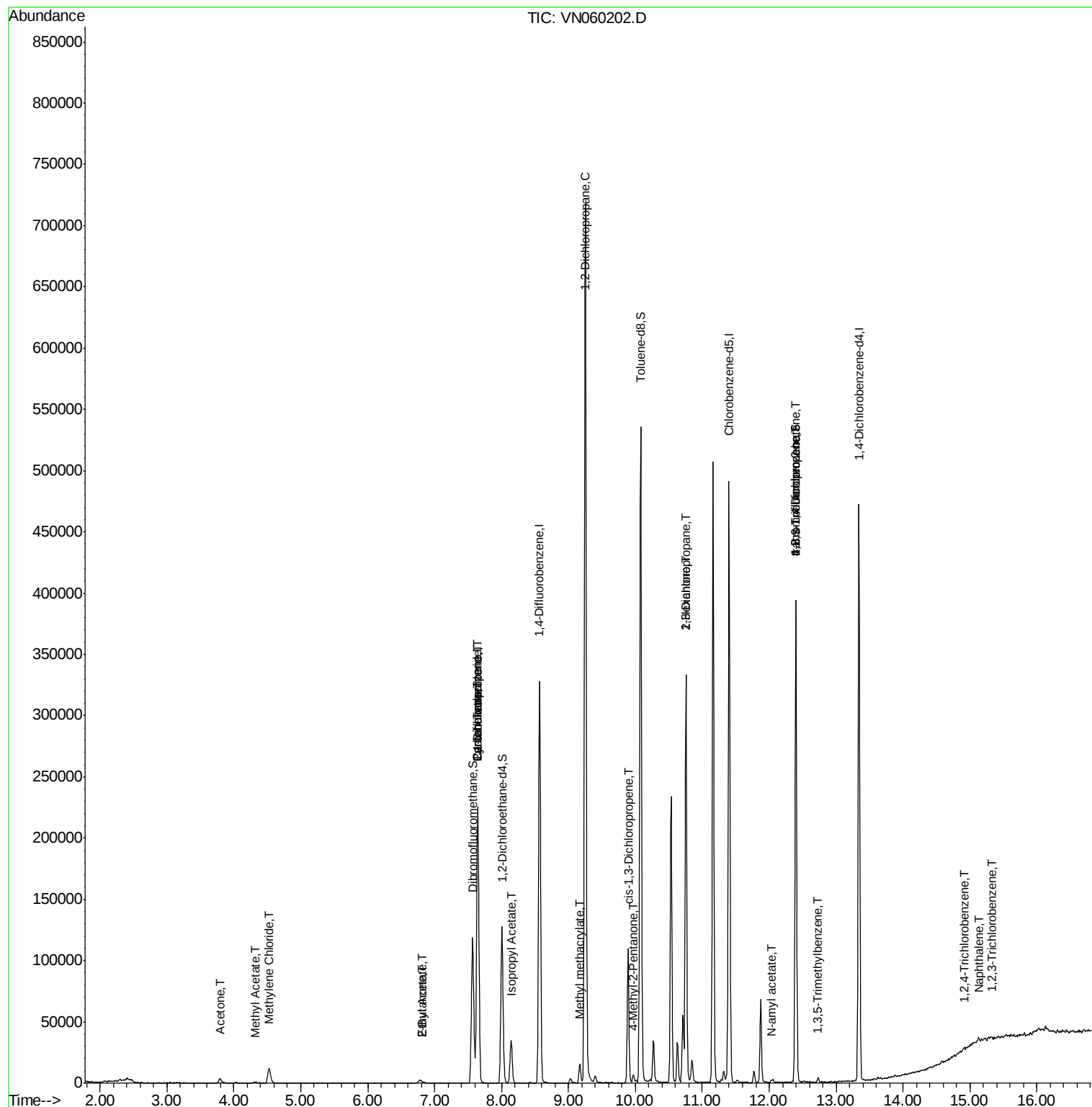
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	6931	6.88	ug/l	97
18) Methyl Acetate	4.32	43	1010	0.53	ug/l #	50
20) Methylene Chloride	4.53	84	9681	4.82	ug/l	95
25) 2-Butanone	6.82	43	1238	0.98	ug/l #	46
31) Cyclohexane	7.64	56	3937	1.21	ug/l #	26
36) 1,1-Dichloropropene	7.64	75	13621	4.90	ug/l #	49
37) Ethyl Acetate	6.82	43	1238	0.49	ug/l #	68
38) Carbon Tetrachloride	7.64	117	18091	5.99	ug/l #	14
43) Isopropyl Acetate	8.14	43	42225	9.84	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	893	0.44	ug/l #	43
48) Methyl methacrylate	9.17	41	2086	1.08	ug/l #	9
51) 4-Methyl-2-Pentanone	9.97	43	4291	1.73	ug/l	91
54) cis-1,3-Dichloropropene	9.89	75	19775	5.67	ug/l #	62
57) 1,3-Dichloropropane	10.75	76	3549	1.04	ug/l #	43
59) 2-Hexanone	10.75	43	48124	25.07	ug/l #	51
74) N-amyl acetate	12.03	43	2573	0.75	ug/l #	43
76) 1,2,3-Trichloropropane	12.40	75	68214	27.92	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2358	0.30	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	68214	68.36	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.43	75	236	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.90	180	635	0.26	ug/l	93
95) Naphthalene	15.13	128	2504	0.38	ug/l #	82
96) 1,2,3-Trichlorobenzene	15.31	180	834	0.35	ug/l	96

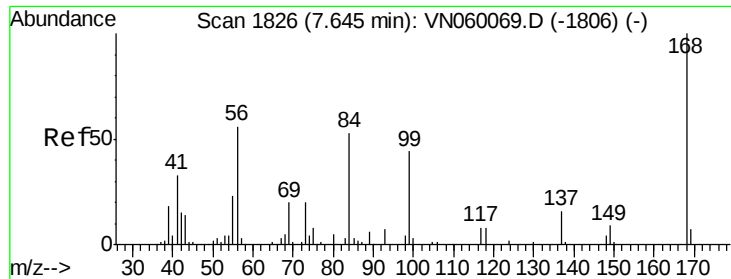
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
Quant Title : SW846 8260
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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: VN060202.D

Acq: 24 Feb 2020 12:15

Instrument :

MSVOA_N

ClientSampleId :

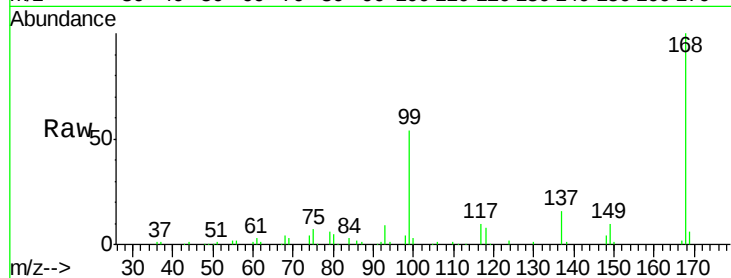
PB127002TB

Tgt Ion:168 Resp: 189832

Ion Ratio Lower Upper

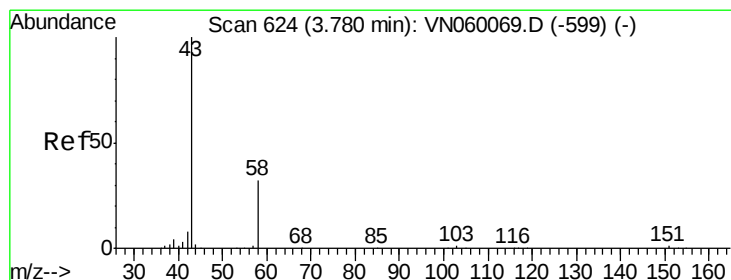
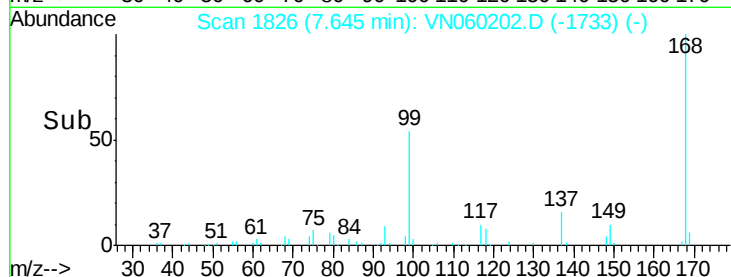
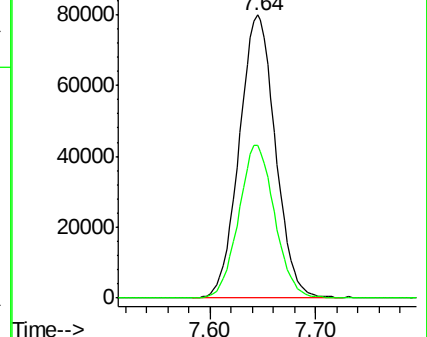
168 100

99 54.0 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): VN060202.D (-1733) (-)

Ion 98.90 (98.60 to 99.60): VN060202.D (-1733) (-)



#16

Acetone

Concen: 6.88 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN060202.D

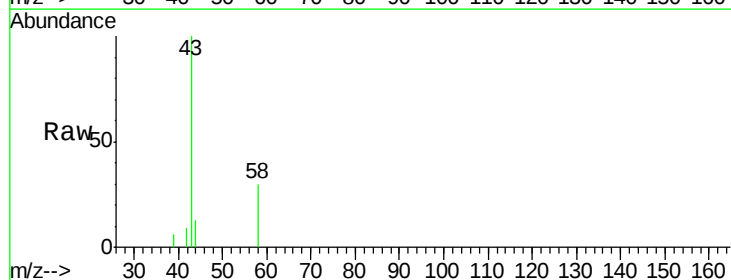
Acq: 24 Feb 2020 12:15

Tgt Ion: 43 Resp: 6931

Ion Ratio Lower Upper

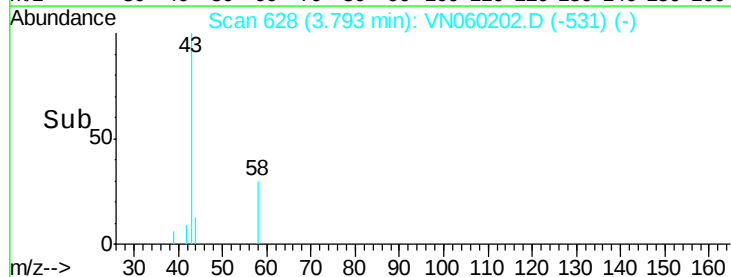
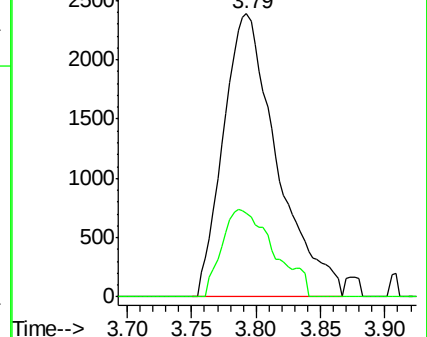
43 100

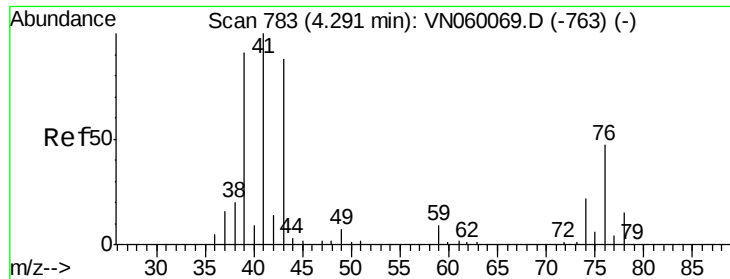
58 29.8 25.2 37.8



Abundance Ion 43.00 (42.70 to 43.70): VN060202.D (-531) (-)

Ion 58.00 (57.70 to 58.70): VN060202.D (-531) (-)

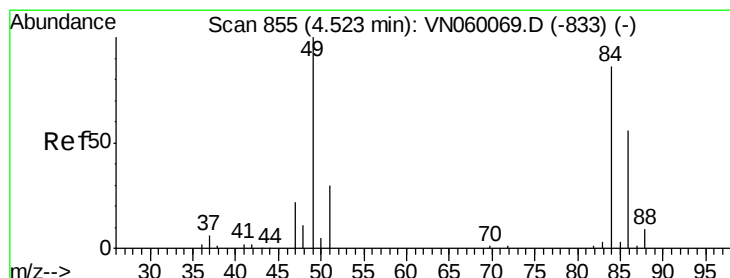
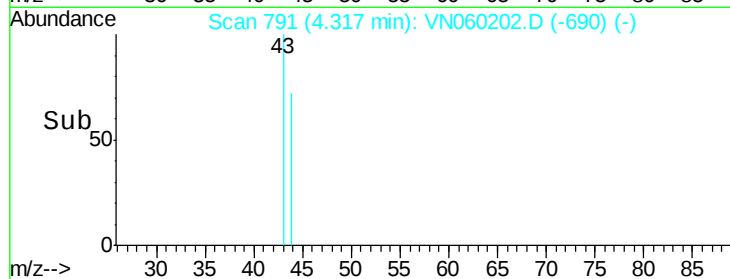
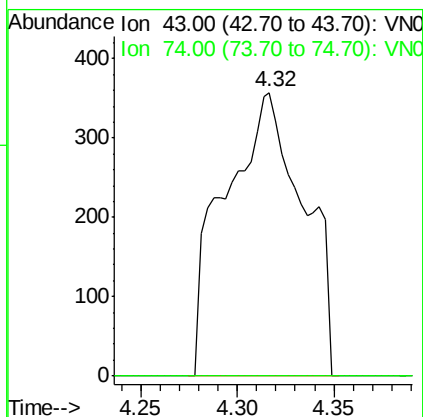
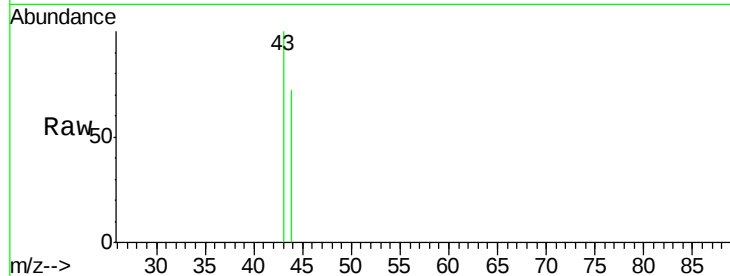




#18
Methyl Acetate
Concen: 0.53 ug/l
RT: 4.32 min Scan# 791
Delta R.T. 0.03 min
Lab File: VN060202.D
Acq: 24 Feb 2020 12:15

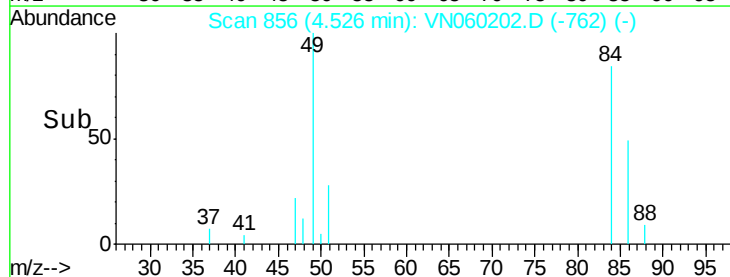
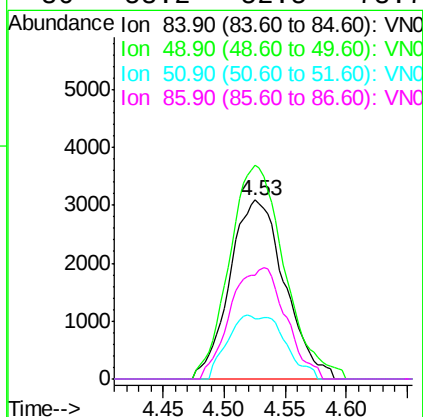
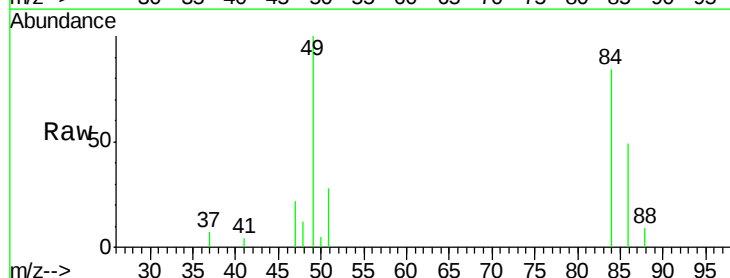
Instrument :
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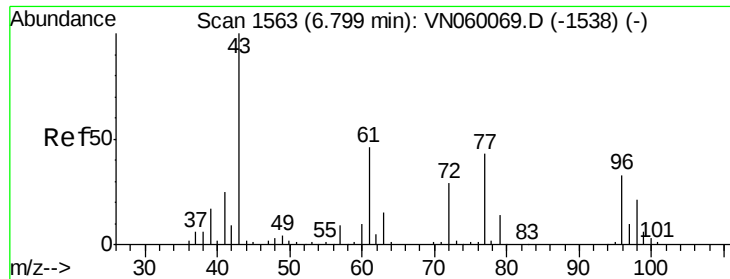
Tgt Ion: 43 Resp: 1010
Ion Ratio Lower Upper
43 100
74 0.0 20.3 30.5#



#20
Methylene Chloride
Concen: 4.82 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060202.D
Acq: 24 Feb 2020 12:15

Tgt Ion: 84 Resp: 9681
Ion Ratio Lower Upper
84 100
49 119.3 93.4 140.0
51 33.8 28.4 42.6
86 58.2 52.5 78.7





#25

2-Butanone

Concen: 0.98 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.02 min

Lab File: VN060202.D

Acq: 24 Feb 2020 12:15

Instrument :

MSVOA_N

ClientSampleId :

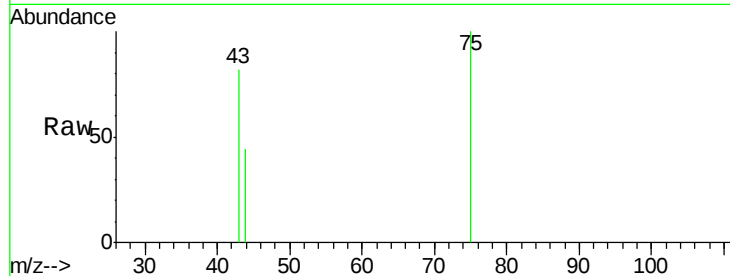
PB127002TB

Tgt Ion: 43 Resp: 1238

Ion Ratio Lower Upper

43 100

72 0.0 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.82

500

400

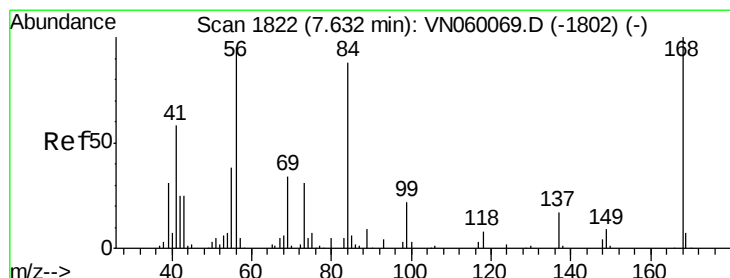
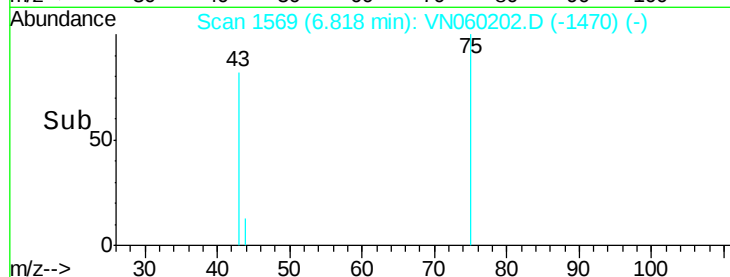
300

200

100

0

Time-->



#31

Cyclohexane

Concen: 1.21 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN060202.D

Acq: 24 Feb 2020 12:15

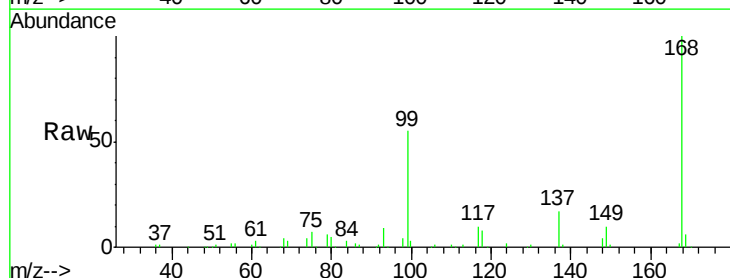
Tgt Ion: 56 Resp: 3937

Ion Ratio Lower Upper

56 100

69 142.4 28.3 42.5#

84 119.9 72.6 108.8#



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

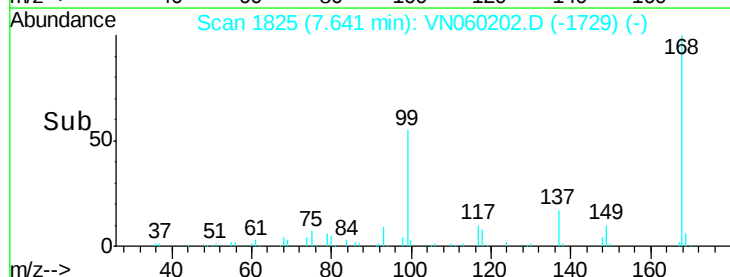
3000

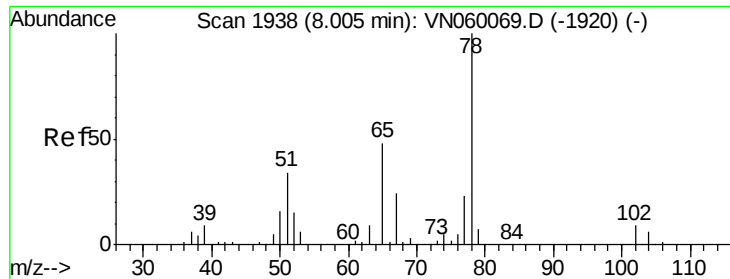
2000

1000

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 48.29 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060202.D

Acq: 24 Feb 2020 12:15

Instrument :

MSVOA_N

ClientSampleId :

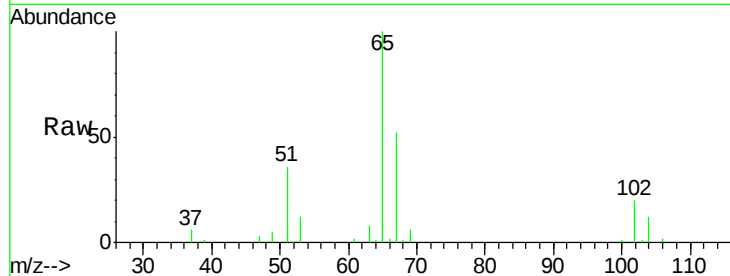
PB127002TB

Tgt Ion: 65 Resp: 111548

Ion Ratio Lower Upper

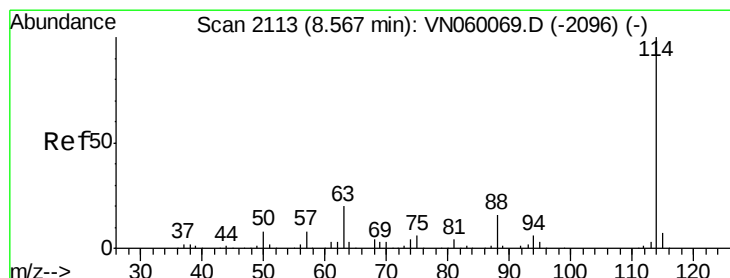
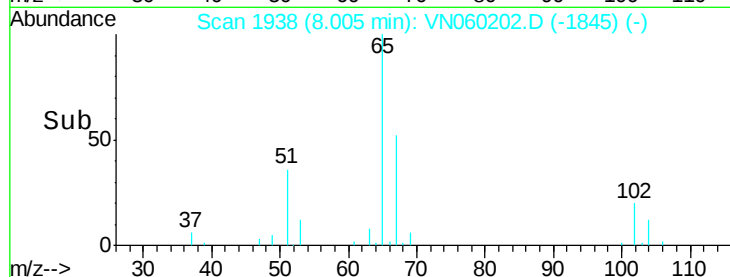
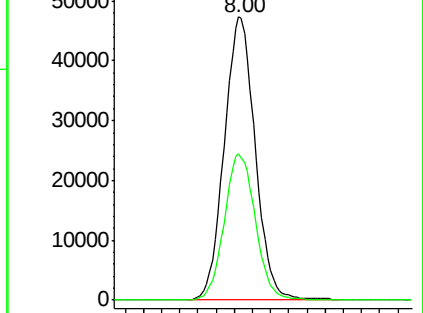
65 100

67 51.9 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN060202.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN060202.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: VN060202.D

Acq: 24 Feb 2020 12:15

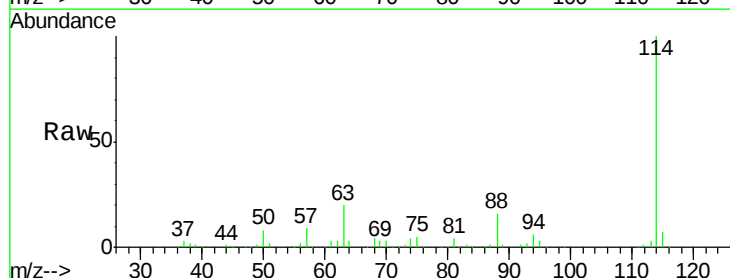
Tgt Ion: 114 Resp: 300007

Ion Ratio Lower Upper

114 100

63 20.1 0.0 40.0

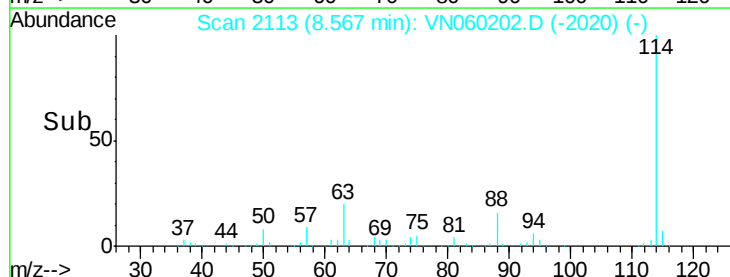
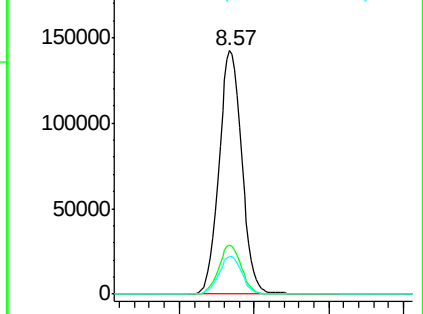
88 15.5 0.0 31.6

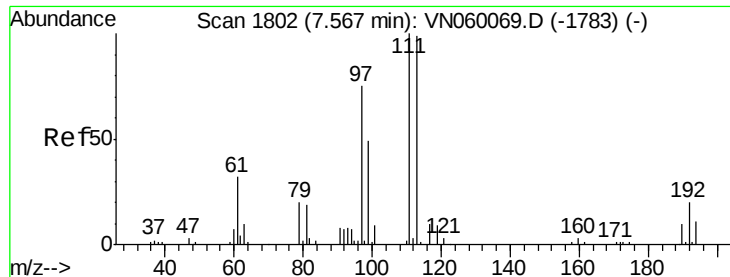


Abundance Ion 113.90 (113.60 to 114.60): VN060202.D (-2096) (-)

Ion 63.00 (62.70 to 63.70): VN060202.D (-2096) (-)

Ion 87.90 (87.60 to 88.60): VN060202.D (-2096) (-)

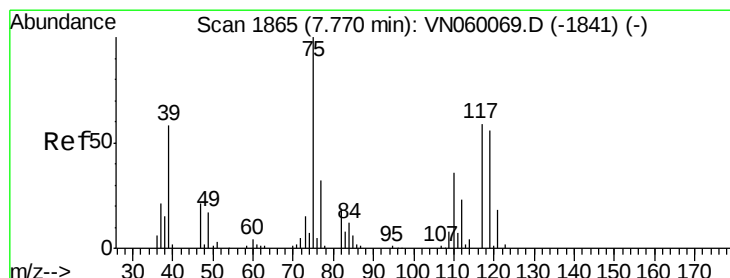
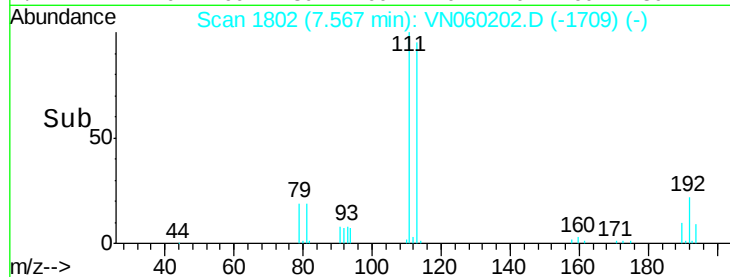
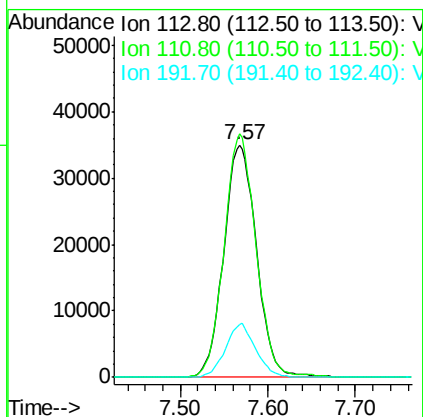
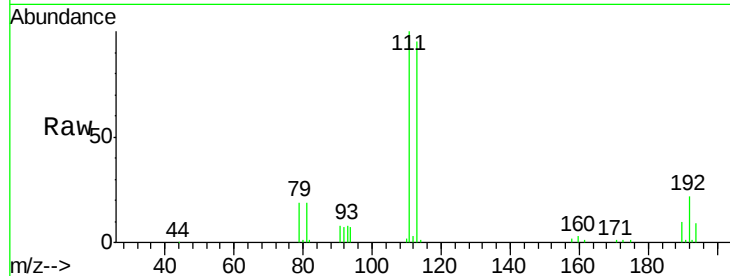




#35
 Dibromofluoromethane
 Concen: 49.40 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060202.D
 Acq: 24 Feb 2020 12:15

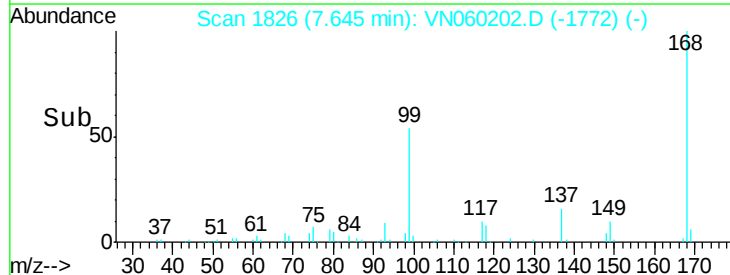
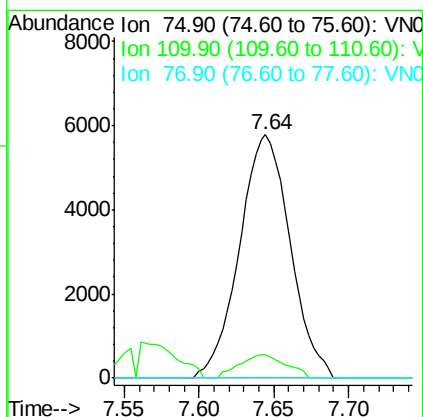
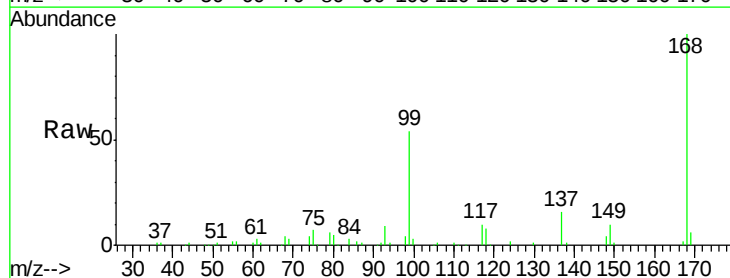
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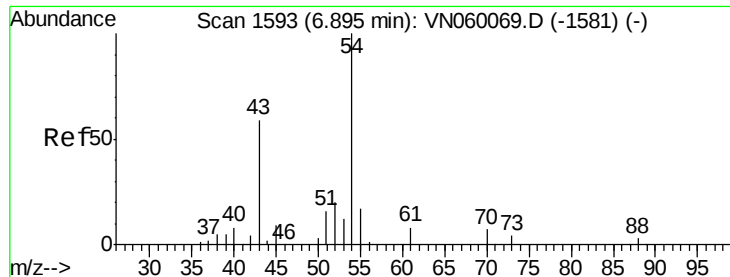
Tgt Ion: 113 Resp: 91106
 Ion Ratio Lower Upper
 113 100
 111 101.3 81.4 122.2
 192 21.1 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 4.90 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060202.D
 Acq: 24 Feb 2020 12:15

Tgt Ion: 75 Resp: 13621
 Ion Ratio Lower Upper
 75 100
 110 8.9 18.1 54.3#
 77 0.0 25.1 37.7#

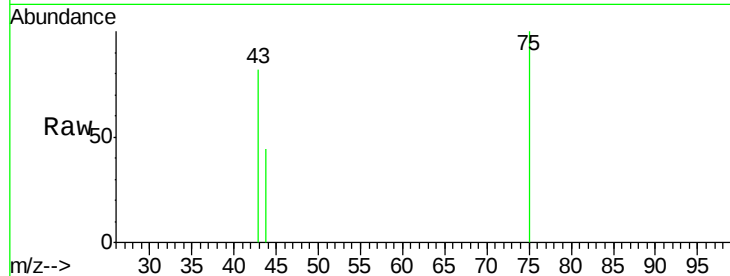




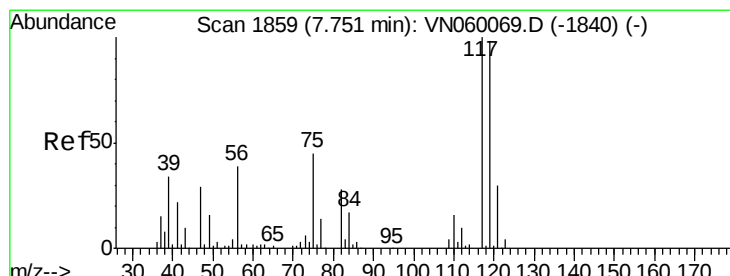
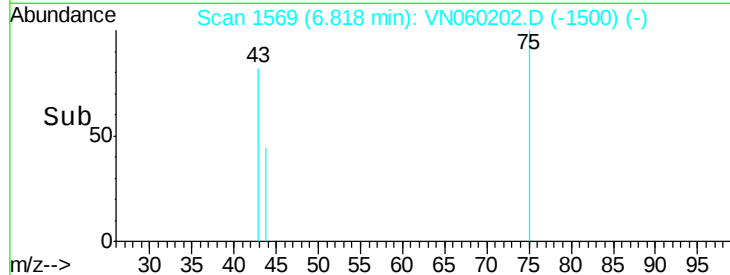
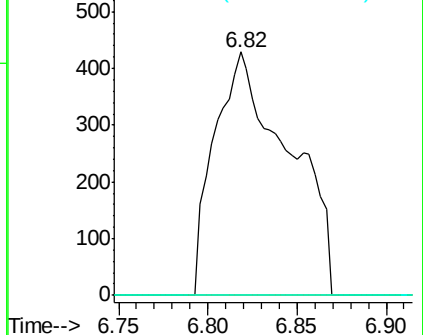
#37
Ethyl Acetate
 Concen: 0.49 ug/l
 RT: 6.82 min Scan# 1569
 Delta R.T. -0.08 min
 Lab File: VN060202.D
 Acq: 24 Feb 2020 12:15

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127002TB

Tgt Ion: 43 Resp: 1238
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.4 17.2#
 70 0.0 8.7 13.1#

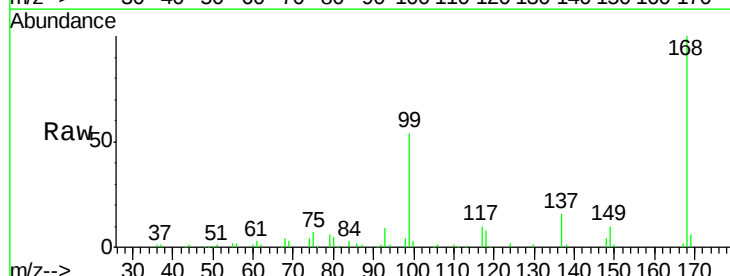


Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 70.00 (69.70 to 70.70): VN0

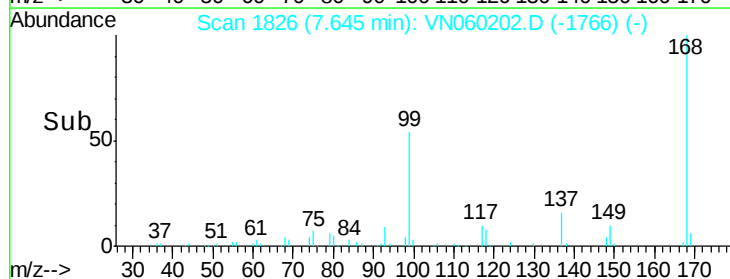
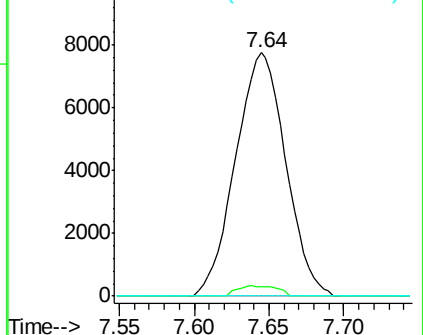


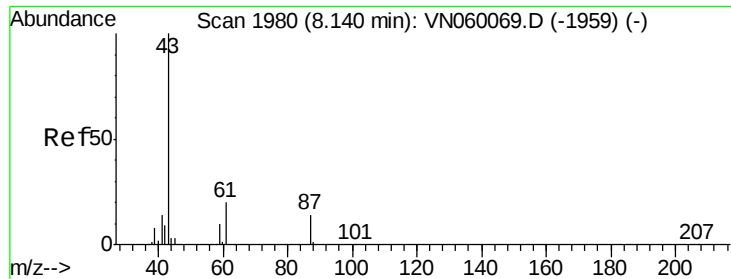
#38
Carbon Tetrachloride
 Concen: 5.99 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN060202.D
 Acq: 24 Feb 2020 12:15

Tgt Ion: 117 Resp: 18091
 Ion Ratio Lower Upper
 117 100
 119 3.9 78.2 117.4#
 121 0.0 24.2 36.2#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 9.84 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060202.D

Acq: 24 Feb 2020 12:15

Instrument :

MSVOA_N

ClientSampleId :

PB127002TB

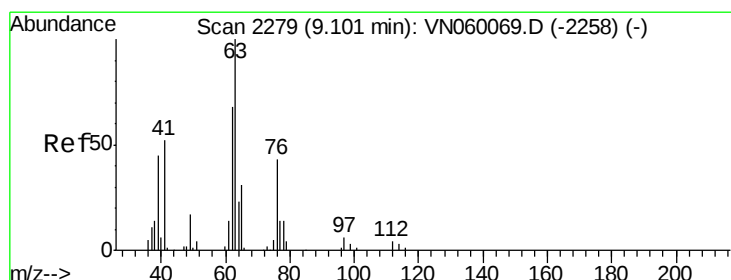
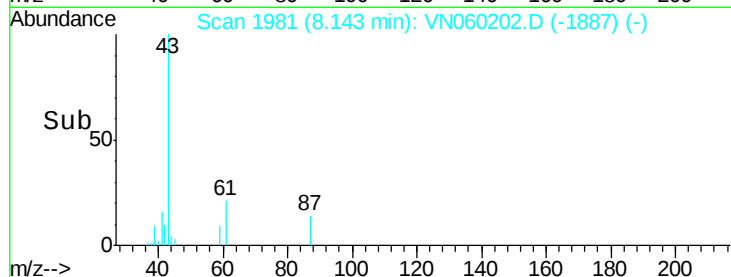
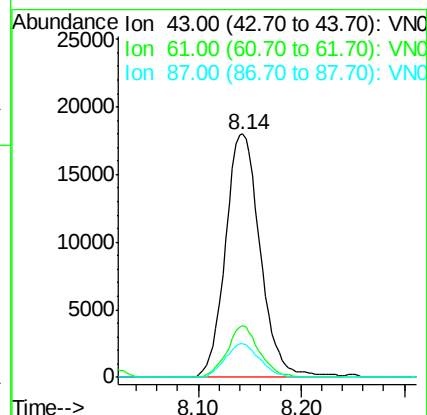
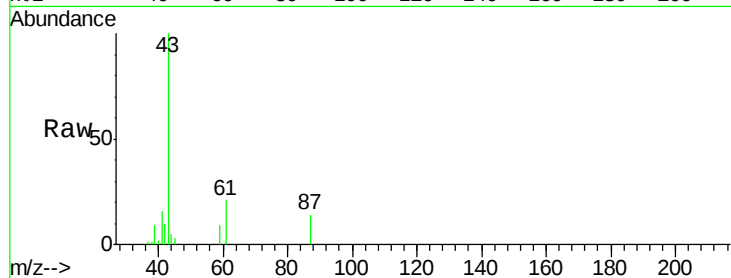
Tgt Ion: 43 Resp: 42225

Ion Ratio Lower Upper

43 100

61 19.5 21.8 32.6#

87 13.5 11.4 17.2



#45

1,2-Dichloropropane

Concen: 0.44 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060202.D

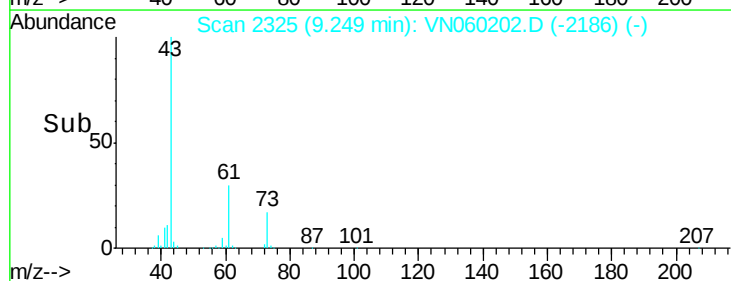
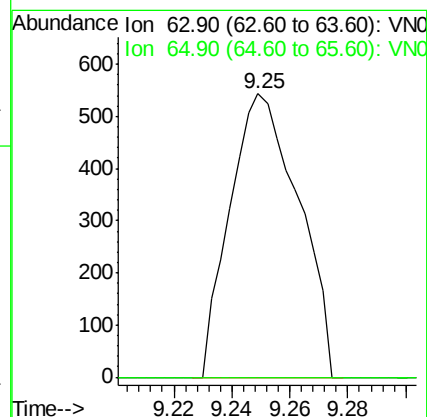
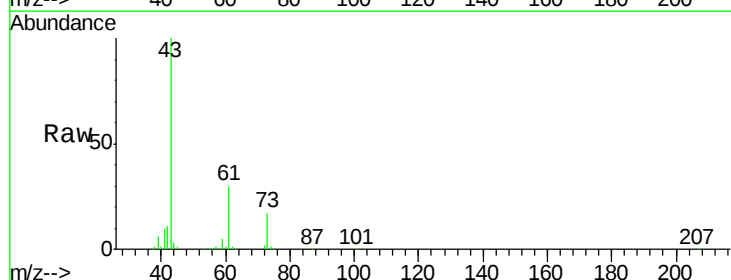
Acq: 24 Feb 2020 12:15

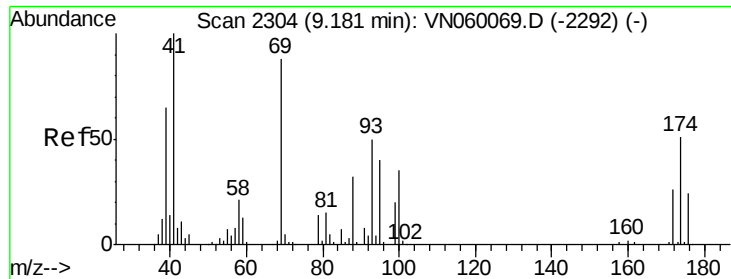
Tgt Ion: 63 Resp: 893

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#

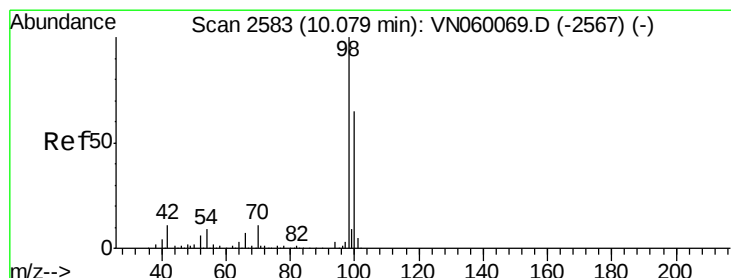
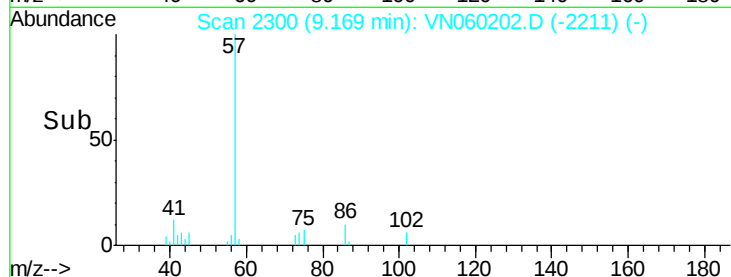
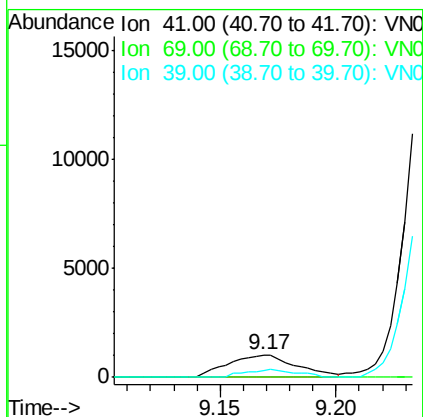
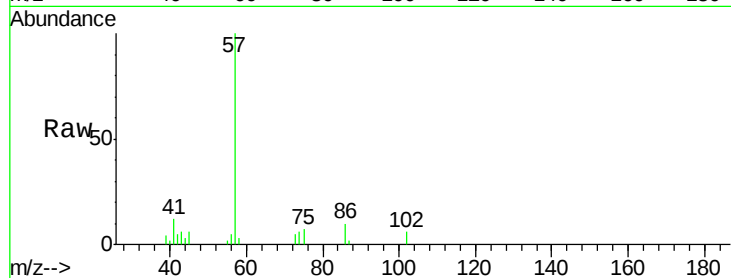




#48
Methyl methacrylate
Concen: 1.08 ug/l
RT: 9.17 min Scan# 2300
Delta R.T. -0.01 min
Lab File: VN060202.D
Acq: 24 Feb 2020 12:15

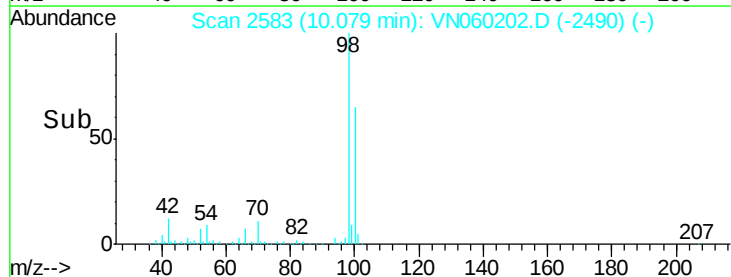
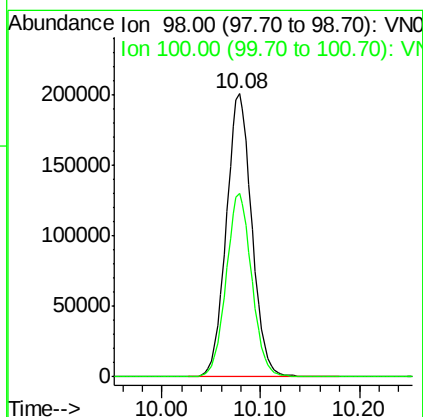
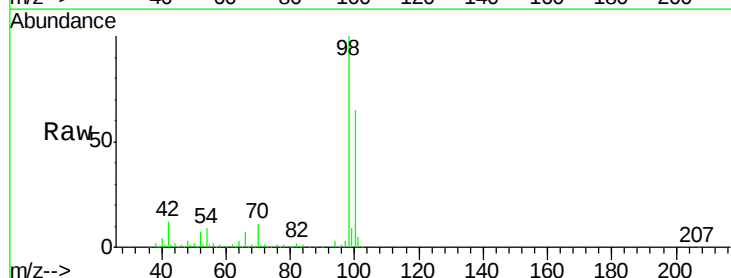
Instrument :
MSVOA_N
ClientSampleId :
PB127002TB

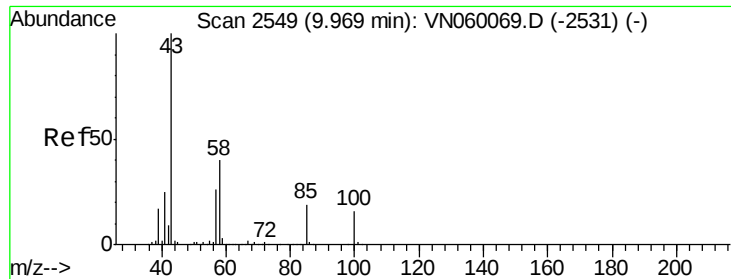
Tgt Ion: 41 Resp: 2086
Ion Ratio Lower Upper
41 100
69 0.0 72.0 108.0#
39 0.0 54.1 81.1#



#50
Toluene-d8
Concen: 50.13 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060202.D
Acq: 24 Feb 2020 12:15

Tgt Ion: 98 Resp: 364016
Ion Ratio Lower Upper
98 100
100 64.9 51.7 77.5

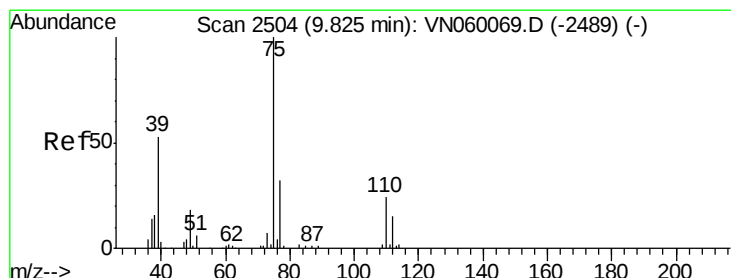
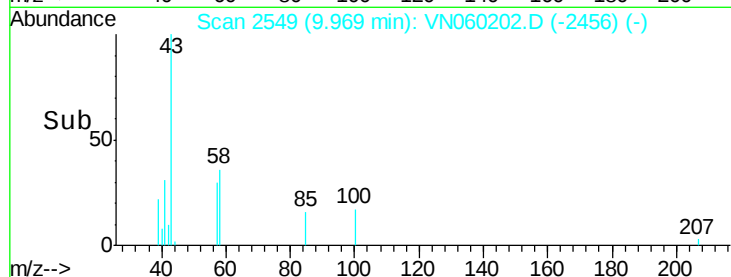
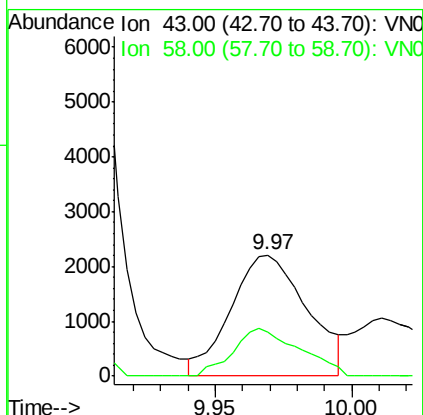
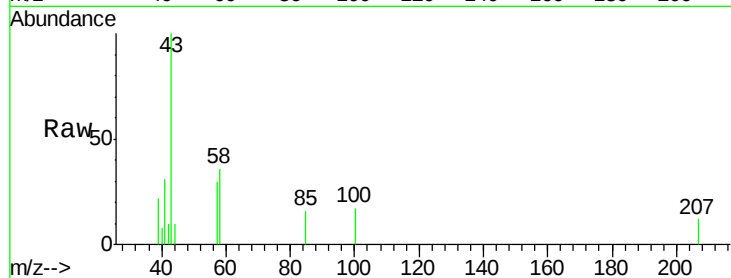




#51
 4-Methyl-2-Pentanone
 Concen: 1.73 ug/l
 RT: 9.97 min Scan# 2549
 Delta R.T. 0.00 min
 Lab File: VN060202.D
 Acq: 24 Feb 2020 12:15

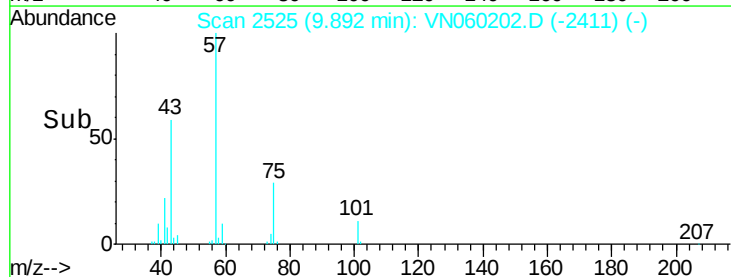
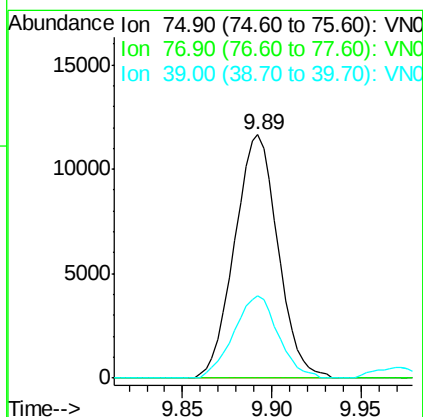
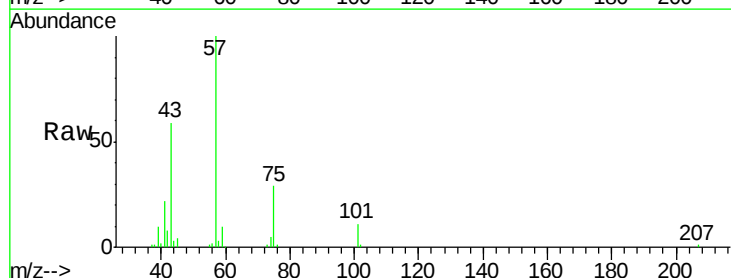
Instrument :
 MSVOA_N
 ClientSampled :
 PB127002TB

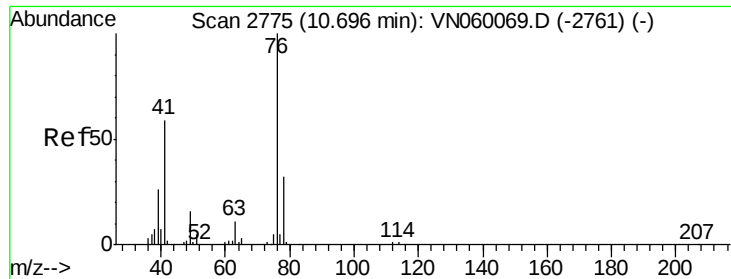
Tgt Ion: 43 Resp: 4291
 Ion Ratio Lower Upper
 43 100
 58 34.5 31.8 47.8



#54
 cis-1,3-Dichloropropene
 Concen: 5.67 ug/l
 RT: 9.89 min Scan# 2525
 Delta R.T. 0.07 min
 Lab File: VN060202.D
 Acq: 24 Feb 2020 12:15

Tgt Ion: 75 Resp: 19775
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.6 38.4#
 39 33.7 42.2 63.4#

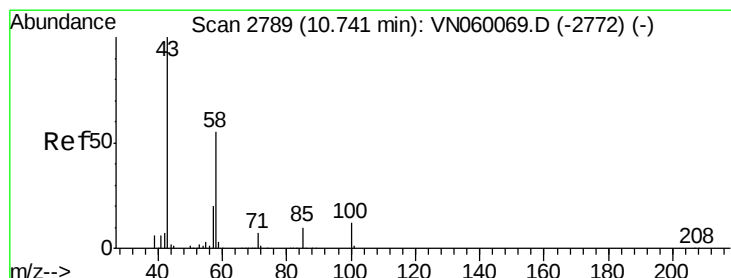
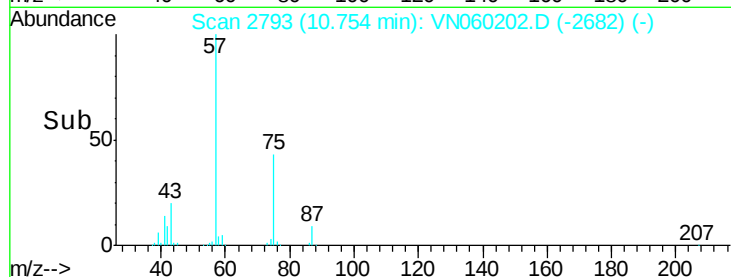
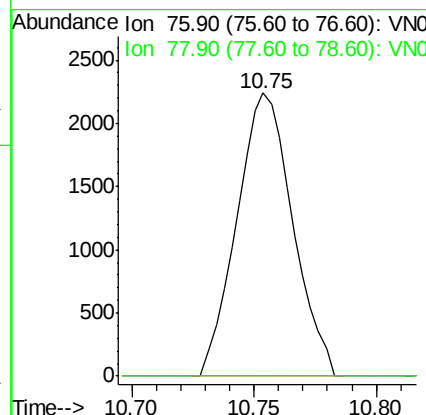
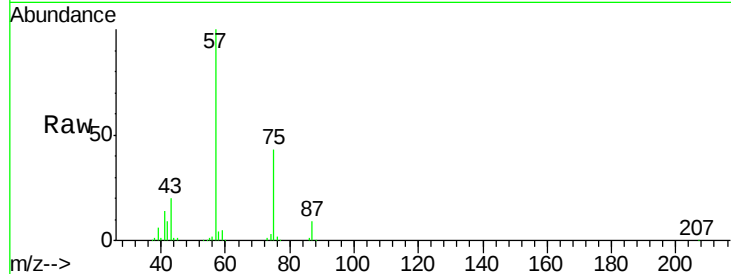




#57
 1,3-Dichloropropane
 Concen: 1.04 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060202.D
 Acq: 24 Feb 2020 12:15

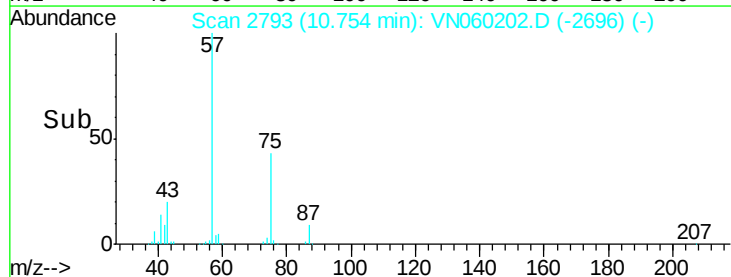
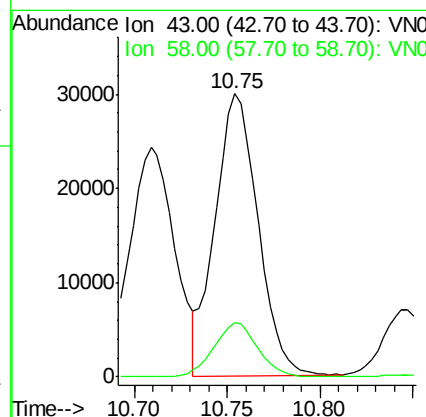
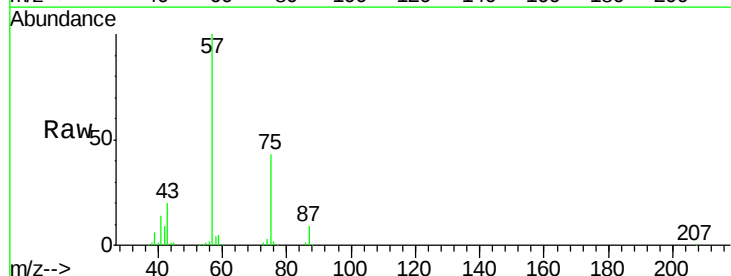
Instrument :
 MSVOA_N
 ClientSampled :
 PB127002TB

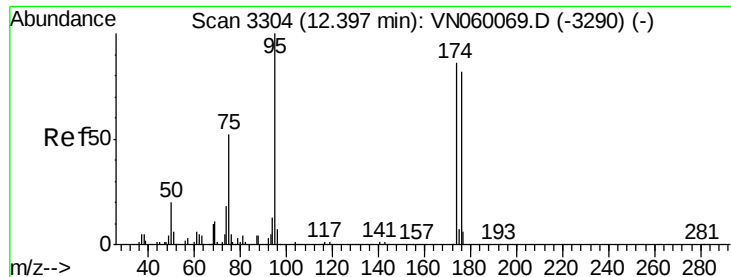
Tgt Ion: 76 Resp: 3549
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#59
 2-Hexanone
 Concen: 25.07 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060202.D
 Acq: 24 Feb 2020 12:15

Tgt Ion: 43 Resp: 48124
 Ion Ratio Lower Upper
 43 100
 58 19.7 27.5 82.4#





#62

4-Bromofluorobenzene

Concen: 49.84 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060202.D

Acq: 24 Feb 2020 12:15

Instrument :

MSVOA_N

ClientSampled :

PB127002TB

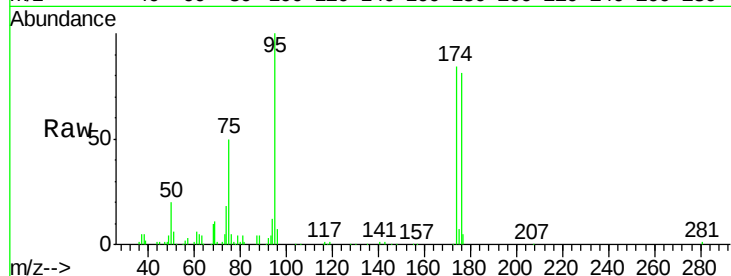
Tgt Ion: 95 Resp: 132990

Ion Ratio Lower Upper

95 100

174 85.1 0.0 169.8

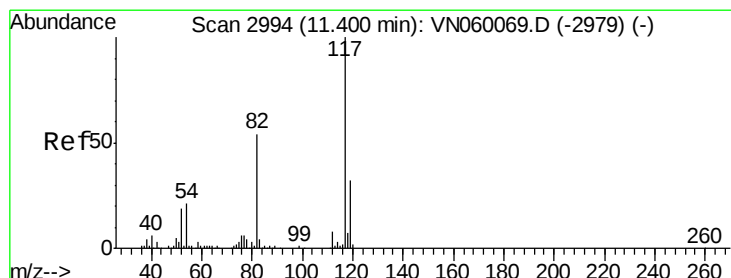
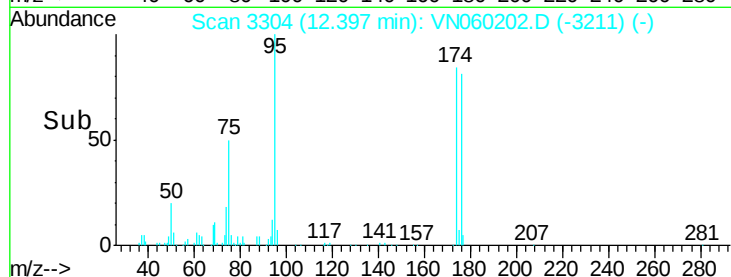
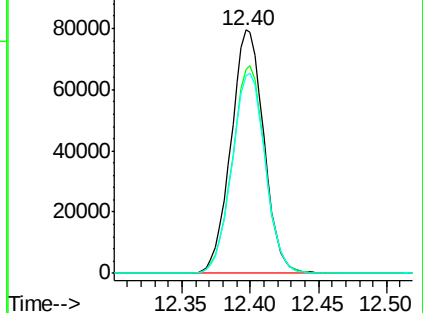
176 83.3 0.0 164.8



Abundance Ion 94.90 (94.60 to 95.60): VN060202.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060202.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060202.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060202.D

Acq: 24 Feb 2020 12:15

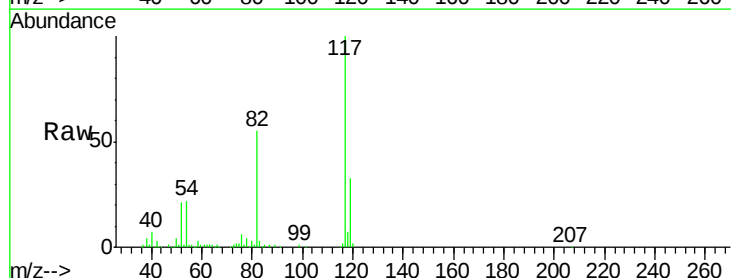
Tgt Ion: 117 Resp: 285946

Ion Ratio Lower Upper

117 100

82 55.2 43.4 65.0

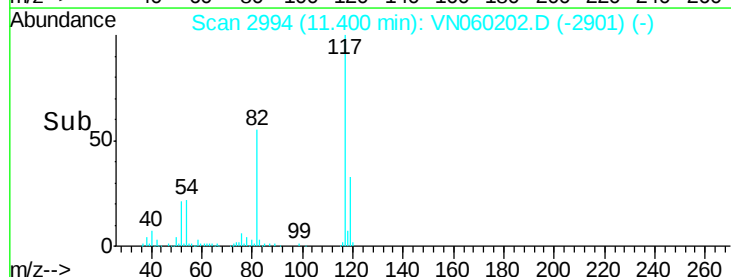
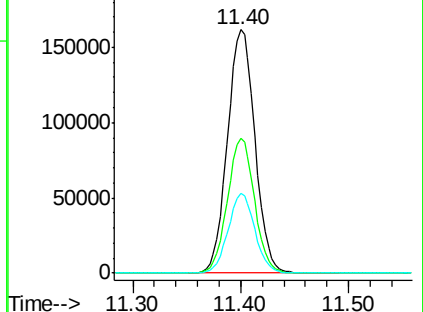
119 32.7 25.8 38.6

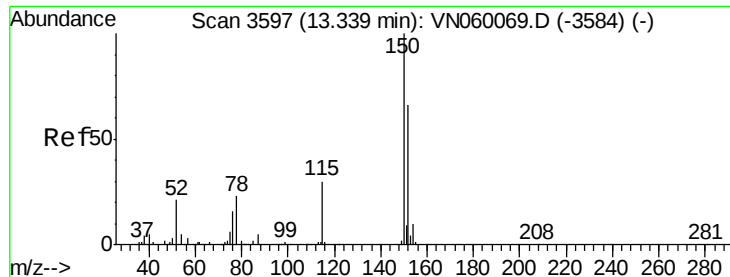


Abundance Ion 116.90 (116.60 to 117.60): VN060202.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060202.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060202.D (-2901) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060202.D

Acq: 24 Feb 2020 12:15

Instrument :

MSVOA_N

ClientSampleId :

PB127002TB

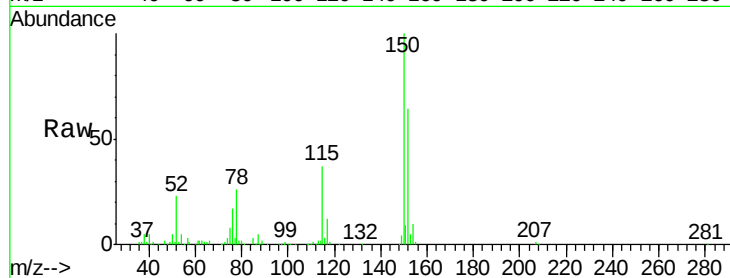
Tgt Ion:152 Resp: 127706

Ion Ratio Lower Upper

152 100

115 57.8 28.9 86.8

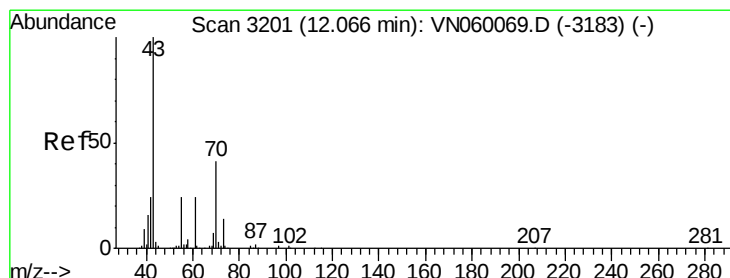
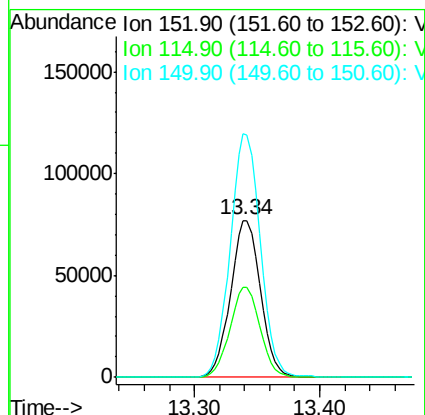
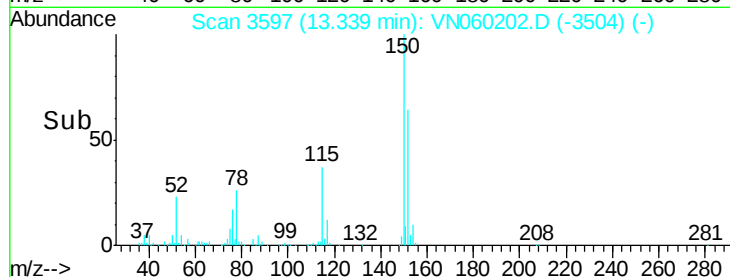
150 156.3 0.0 342.4



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: 0.75 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN060202.D

Acq: 24 Feb 2020 12:15

Tgt Ion: 43 Resp: 2573

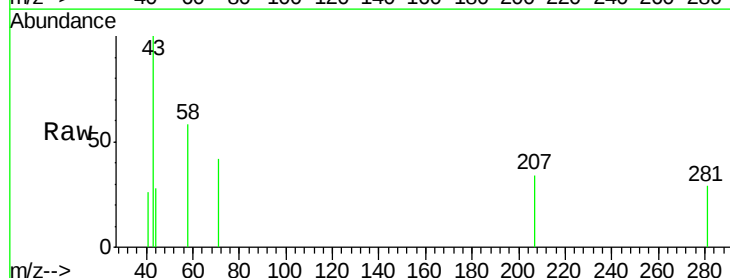
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 0.0 18.8 28.2#

61 0.0 19.2 28.8#

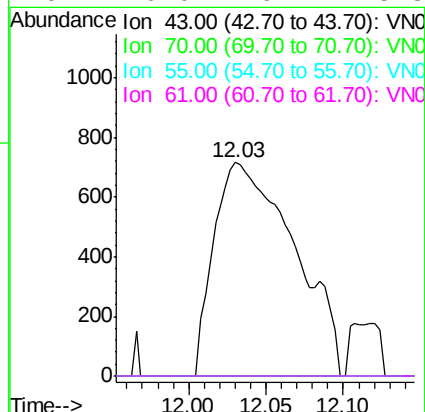
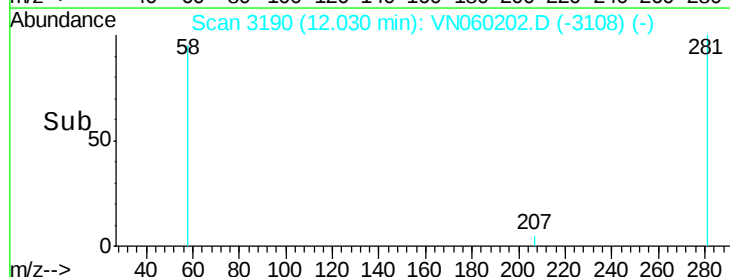


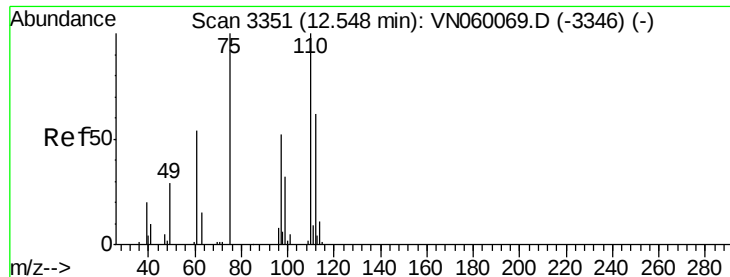
Abundance Ion 43.00 (42.70 to 43.70): V

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: 27.92 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060202.D

Acq: 24 Feb 2020 12:15

Instrument :

MSVOA_N

ClientSampled :

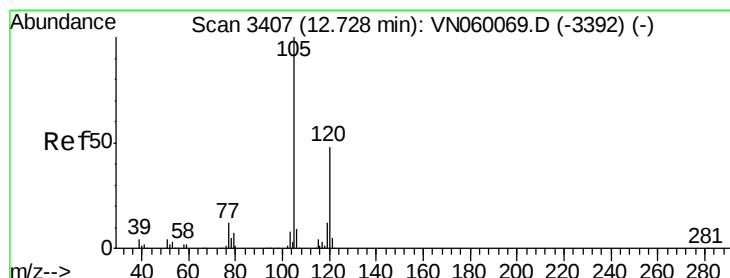
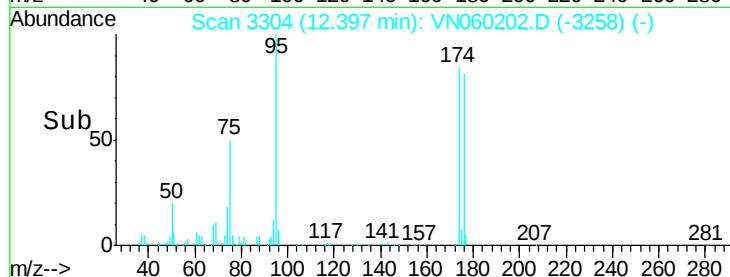
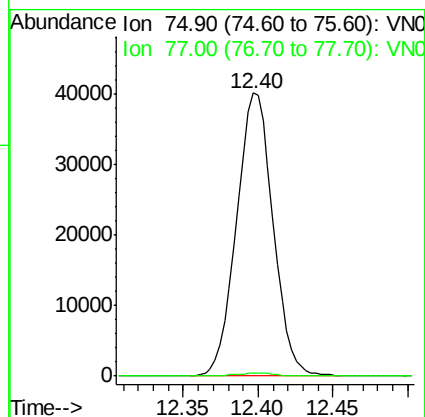
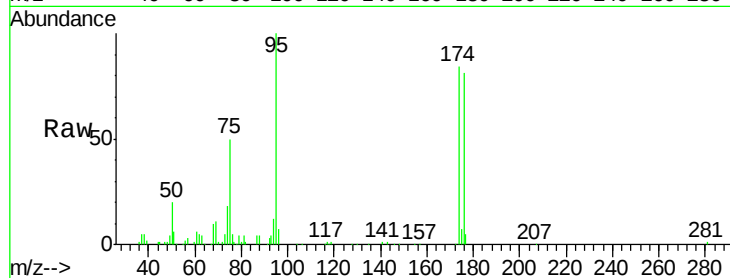
PB127002TB

Tgt Ion: 75 Resp: 68214

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.30 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060202.D

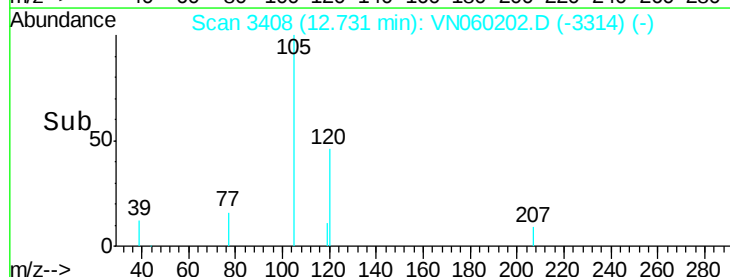
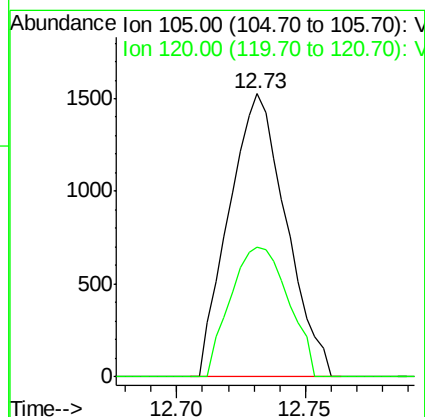
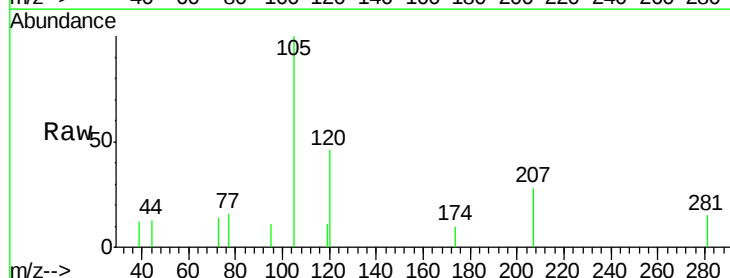
Acq: 24 Feb 2020 12:15

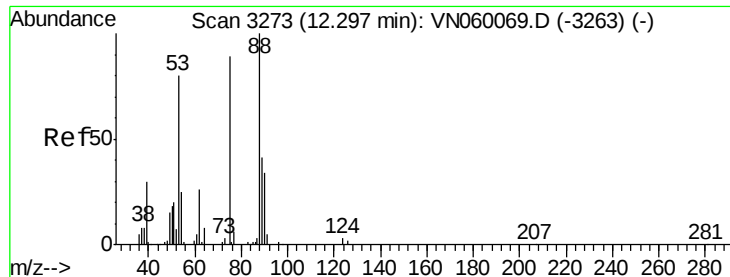
Tgt Ion: 105 Resp: 2358

Ion Ratio Lower Upper

105 100

120 46.4 24.3 72.9





#81

trans-1,4-Dichloro-2-butene

Concen: 68.36 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060202.D

Acq: 24 Feb 2020 12:15

Instrument :

MSVOA_N

ClientSampled :

PB127002TB

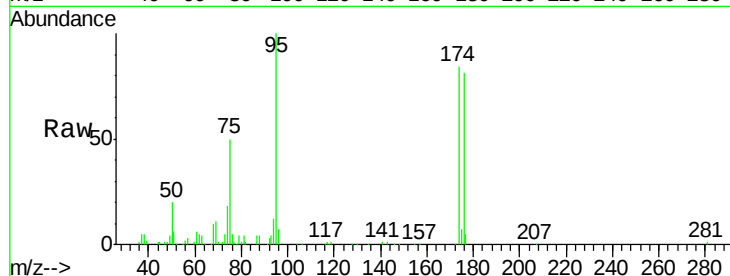
Tgt Ion: 75 Resp: 68214

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

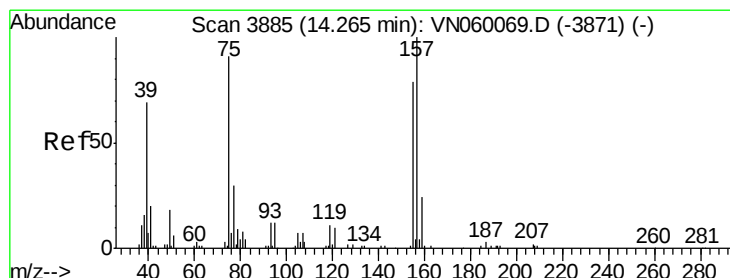
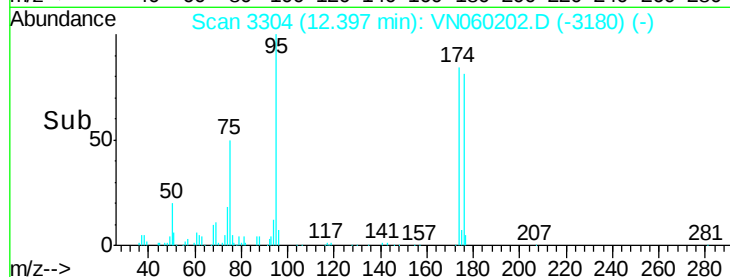
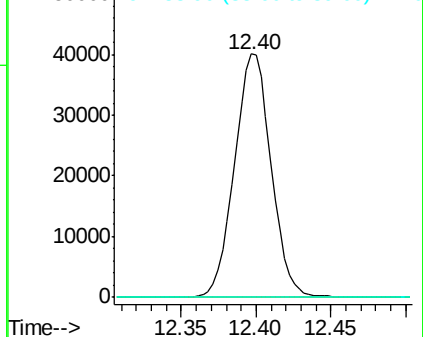
89 0.0 37.0 55.4#



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: 14.43 min Scan# 3935

Delta R.T. 0.16 min

Lab File: VN060202.D

Acq: 24 Feb 2020 12:15

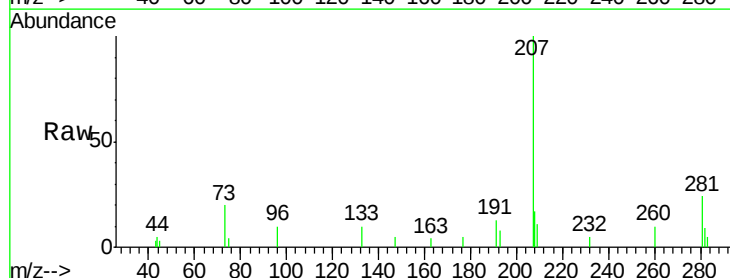
Tgt Ion: 75 Resp: 236

Ion Ratio Lower Upper

75 100

155 0.0 43.0 129.0#

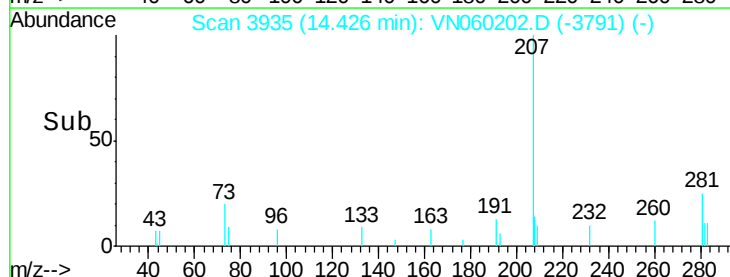
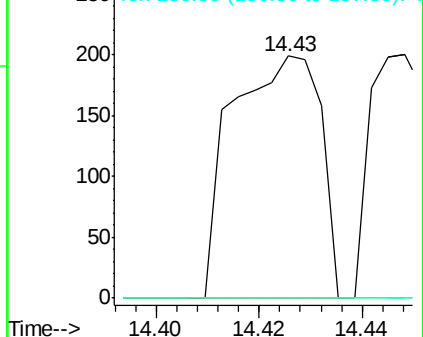
157 0.0 54.9 164.5#

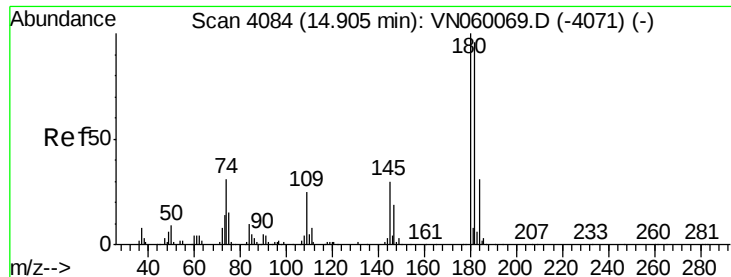


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

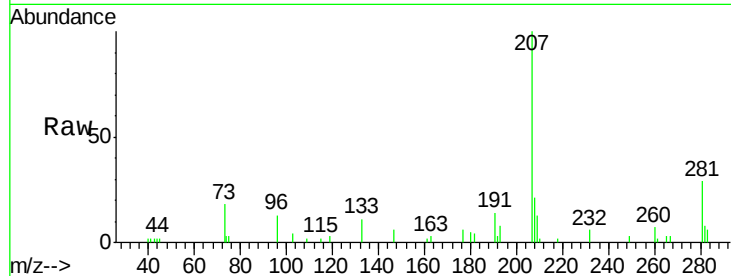




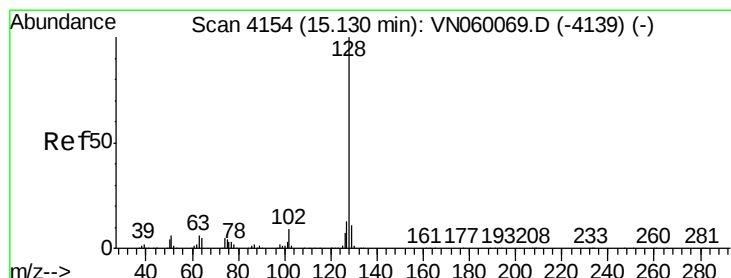
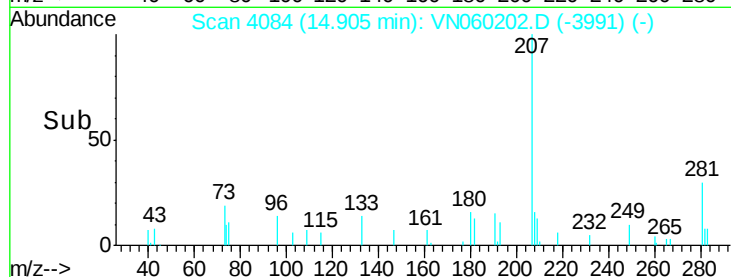
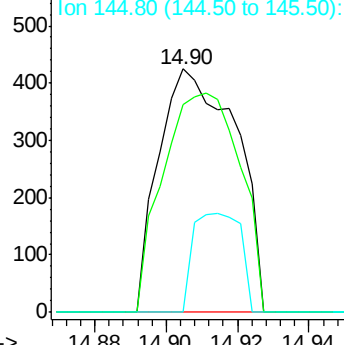
#93
1,2,4-Trichlorobenzene
Concen: 0.26 ug/l
RT: 14.90 min Scan# 4084
Delta R.T. 0.00 min
Lab File: VN060202.D
Acq: 24 Feb 2020 12:15

Instrument :
MSVOA_N
ClientSampled :
PB127002TB

Tgt Ion:180 Resp: 635
Ion Ratio Lower Upper
180 100
182 89.6 47.9 143.8
145 25.0 15.2 45.5

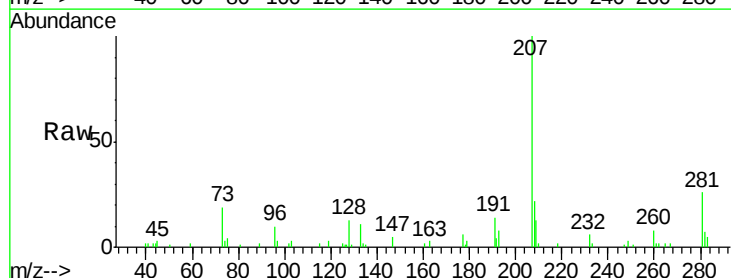


Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V

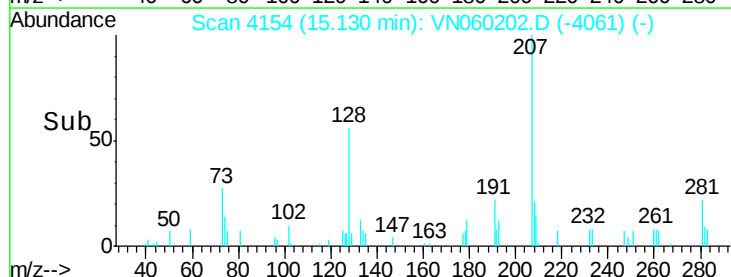
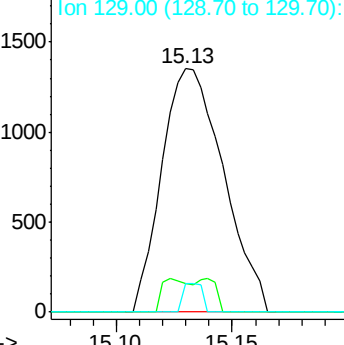


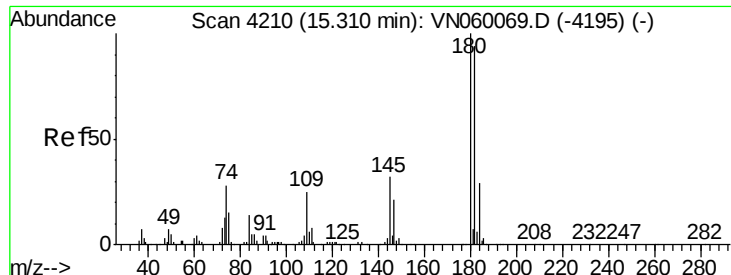
#95
Naphthalene
Concen: 0.38 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN060202.D
Acq: 24 Feb 2020 12:15

Tgt Ion:128 Resp: 2504
Ion Ratio Lower Upper
128 100
127 6.4 10.3 15.5#
129 3.6 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.35 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN060202.D
 Acq: 24 Feb 2020 12:15

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127002TB

Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.6	47.5	142.5
145	30.2	16.1	48.3

