

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031820\
 Data File : VN060610.D
 Acq On : 18 Mar 2020 23:13
 Operator : JC/MD
 Sample : L1969-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-01-200317

Quant Time: Mar 19 05:05:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	191004	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	315918	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	283810	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	124663	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	120039	45.78	ug/l	0.00
Spiked Amount			Recovery	=	91.56%	
35) Dibromofluoromethane	7.57	113	93661	49.03	ug/l	0.00
Spiked Amount			Recovery	=	98.06%	
50) Toluene-d8	10.08	98	385483	49.40	ug/l	0.00
Spiked Amount			Recovery	=	98.80%	
62) 4-Bromofluorobenzene	12.40	95	137612	48.12	ug/l	0.00
Spiked Amount			Recovery	=	96.24%	

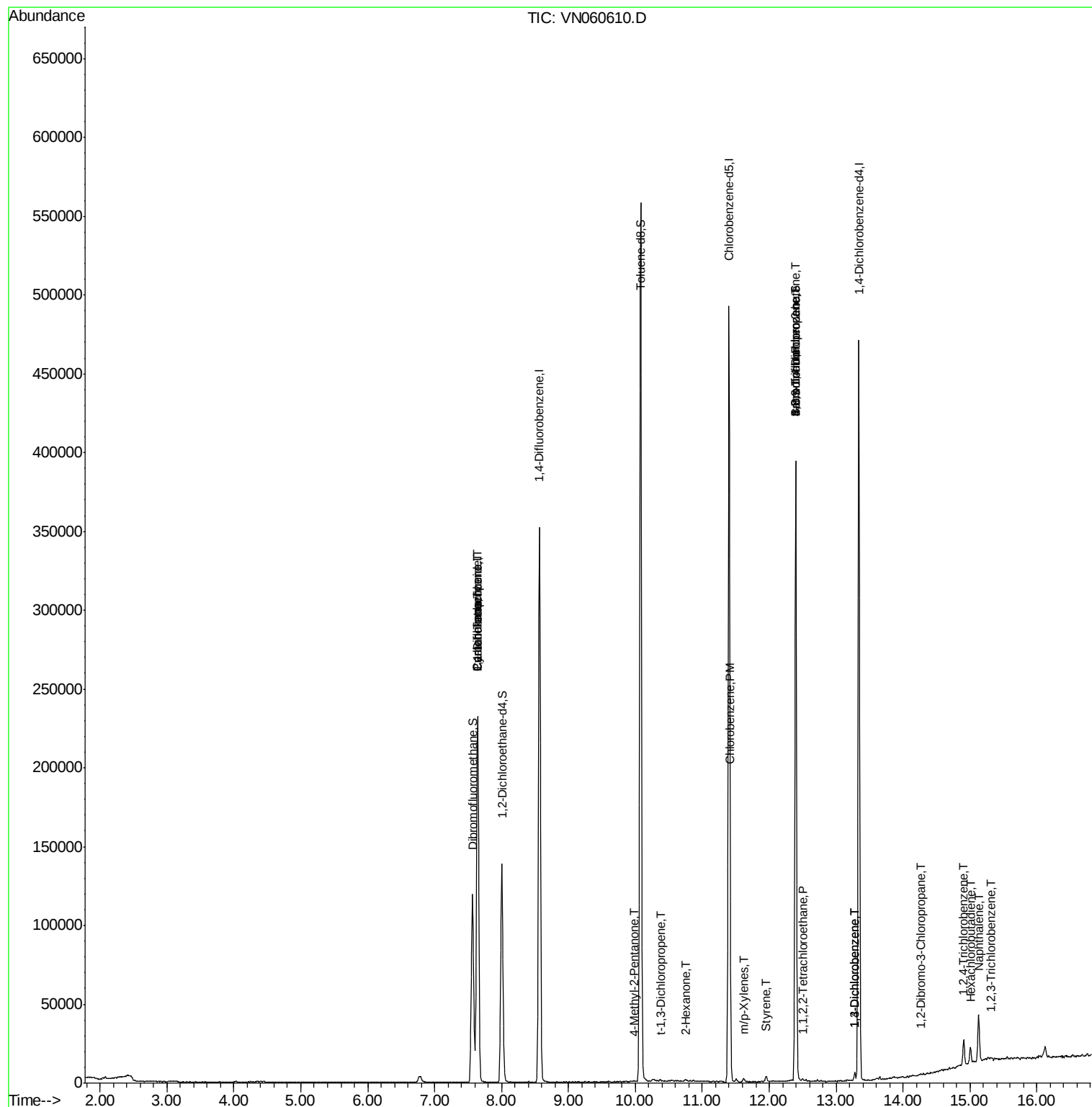
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Cyclohexane	7.65	56	4146	0.982	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15142	4.950	ug/l #	49
38) Carbon Tetrachloride	7.64	117	18154	6.621	ug/l #	16
51) 4-Methyl-2-Pentanone	9.97	43	727	0.234	ug/l #	37
53) t-1,3-Dichloropropene	10.37	75	830	0.236	ug/l #	70
59) 2-Hexanone	10.75	43	830	0.371	ug/l	67
65) Chlorobenzene	11.43	112	1849	0.329	ug/l	89
68) m/p-Xylenes	11.62	106	1009	0.260	ug/l	97
70) Styrene	11.96	104	1495	0.246	ug/l	97
71) Bromoform	12.39	173	80	1.726	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.50	83	971	0.343	ug/l #	95
76) 1,2,3-Trichloropropane	12.40	75	69354	25.782	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	69354	66.217	ug/l #	13
87) 1,3-Dichlorobenzene	13.28	146	2447	0.615	ug/l	95
88) 1,4-Dichlorobenzene	13.28	146	2447	0.613	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.26	75	293	0.228	ug/l #	49
93) 1,2,4-Trichlorobenzene	14.91	180	5506	2.358	ug/l	99
94) Hexachlorobutadiene	15.00	225	2346	2.050	ug/l	97
95) Naphthalene	15.13	128	25503	3.632	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	490	0.213	ug/l #	79

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060610.D

Acq: 18 Mar 2020 23:13

Instrument :

MSVOA_N

ClientSampleId :

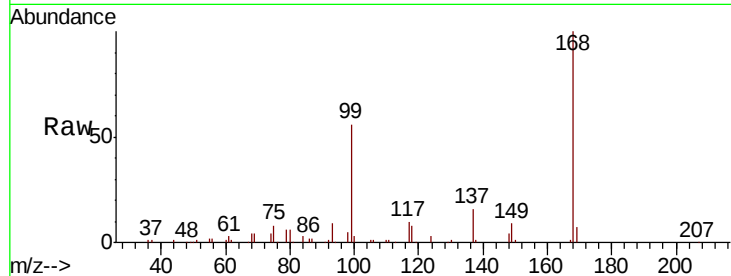
TB-01-200317

Tot Ion:168 Resp: 191004

Ion Ratio Lower Upper

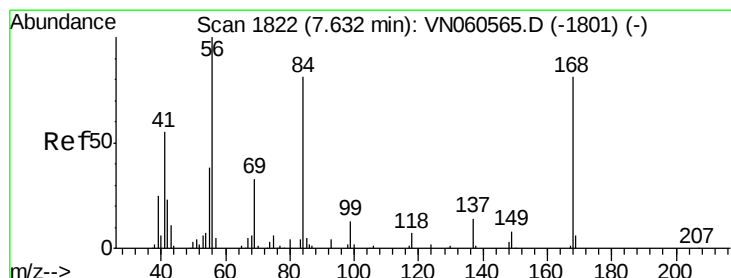
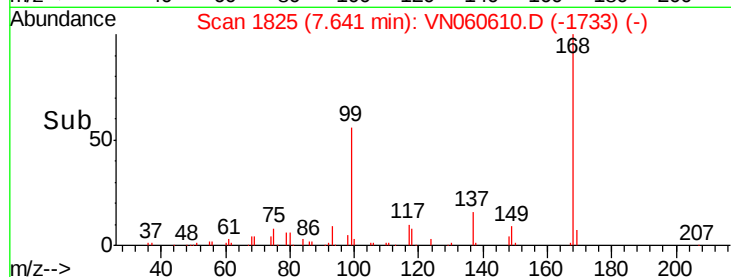
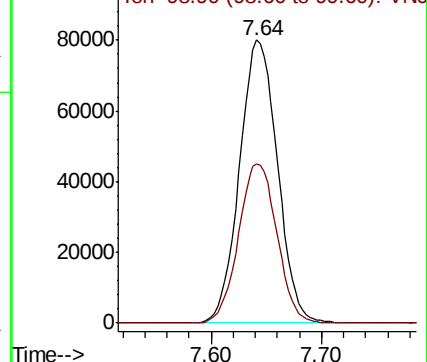
168 100

99 56.5 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#31

Cyclohexane

Concen: 0.982 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.02 min

Lab File: VN060610.D

Acq: 18 Mar 2020 23:13

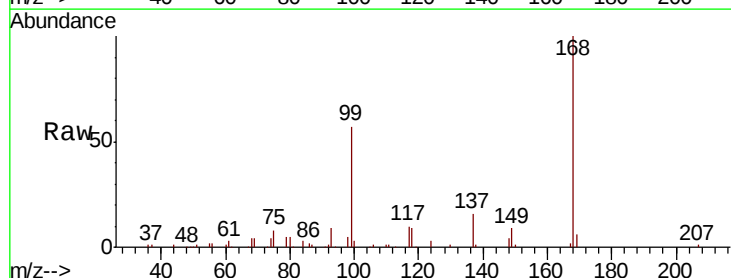
Tgt Ion: 56 Resp: 4146

Ion Ratio Lower Upper

56 100

69 163.3 26.6 40.0#

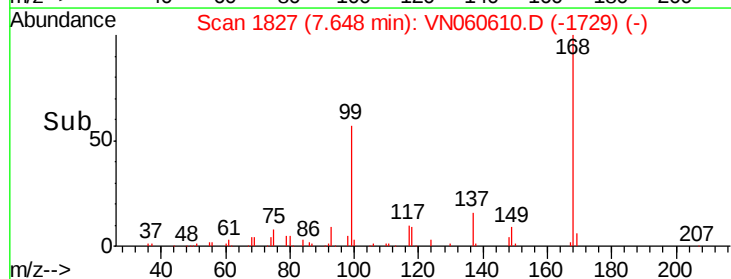
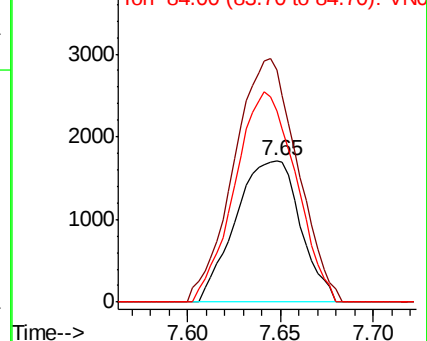
84 134.8 64.3 96.5#

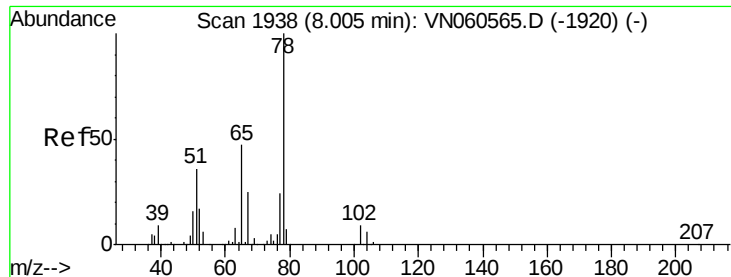


Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 69.00 (68.70 to 69.70): VN

Ion 84.00 (83.70 to 84.70): VN

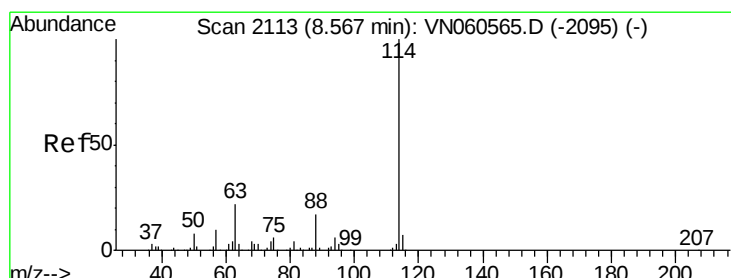
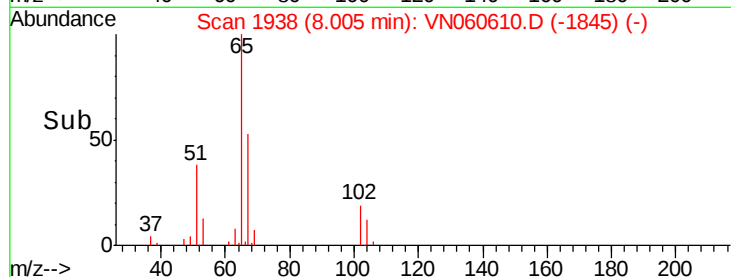
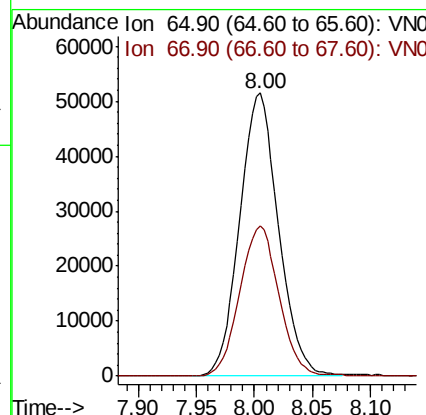
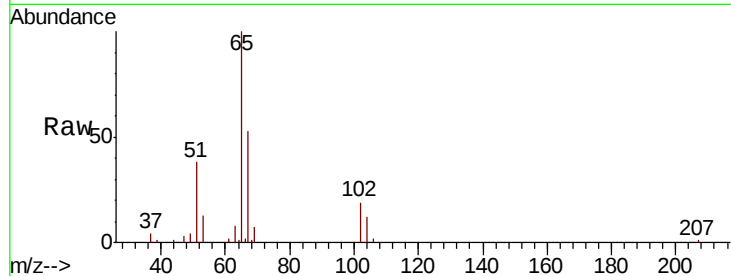




#33
 1,2-Dichloroethane-d4
 Concen: 45.781 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN060610.D
 Acq: 18 Mar 2020 23:13

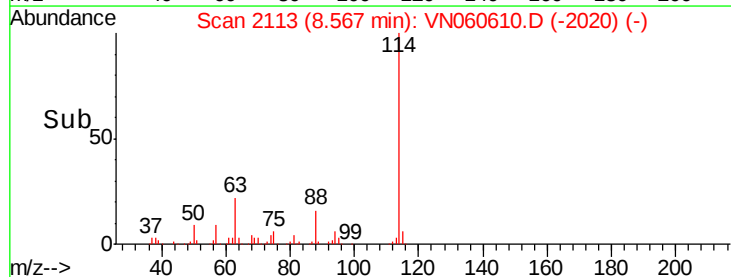
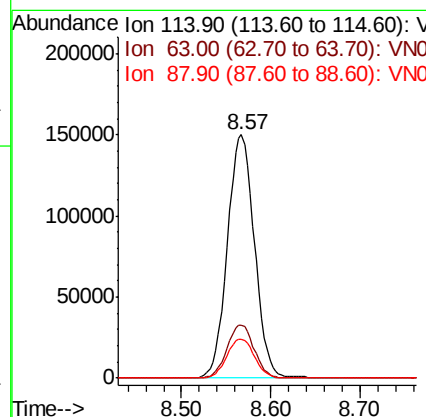
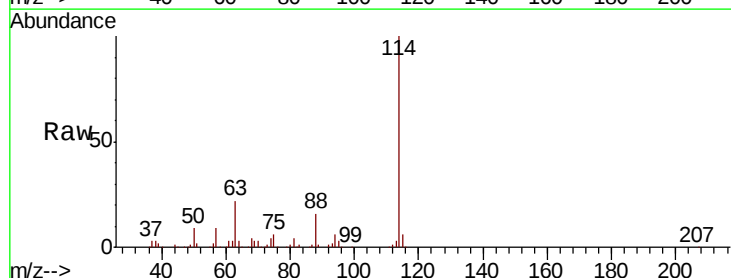
Instrument :
 MSVOA_N
 ClientSampleId :
 TB-01-200317

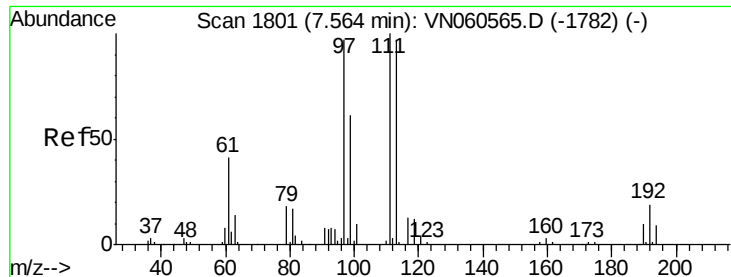
Tot Ion: 65 Resp: 120039
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060610.D
 Acq: 18 Mar 2020 23:13

Tgt Ion: 114 Resp: 315918
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 43.8
 88 16.0 0.0 33.0

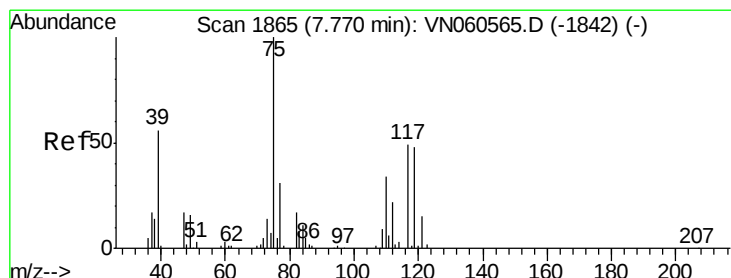
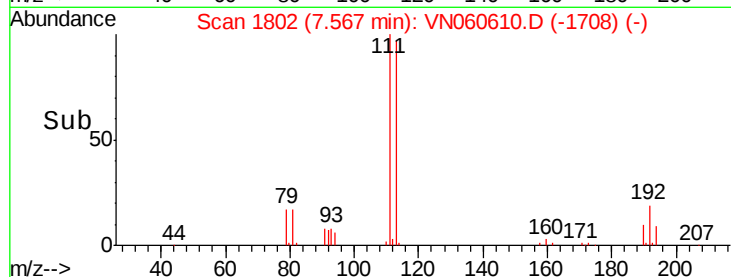
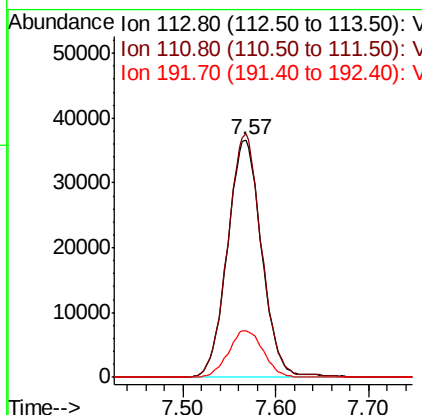
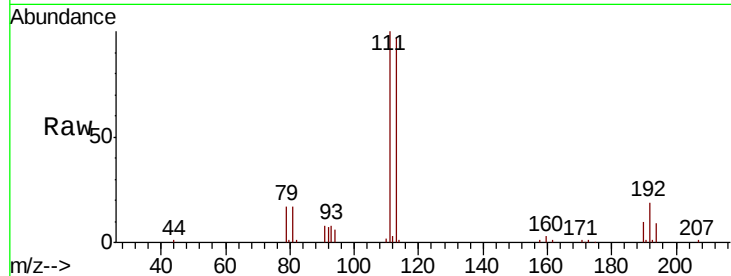




#35
 Dibromofluoromethane
 Concen: 49.031 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060610.D
 Acq: 18 Mar 2020 23:13

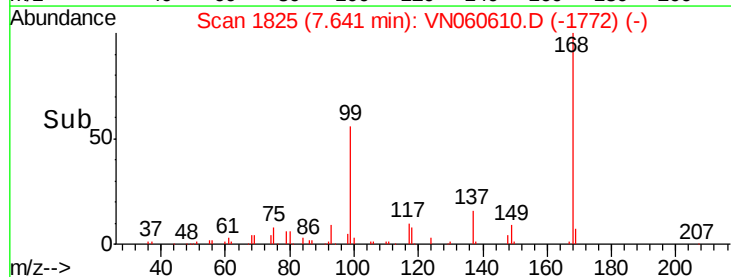
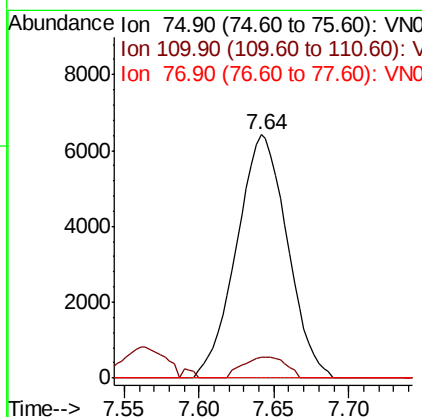
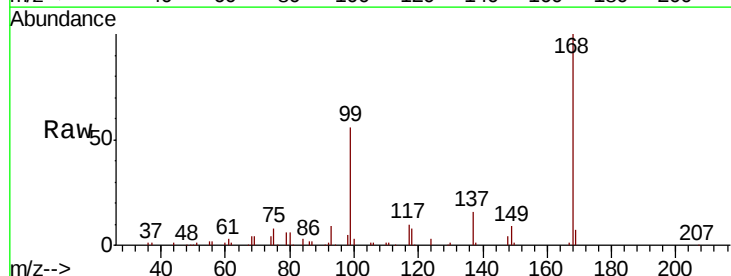
Instrument :
 MSVOA_N
 ClientSampleId :
 TB-01-200317

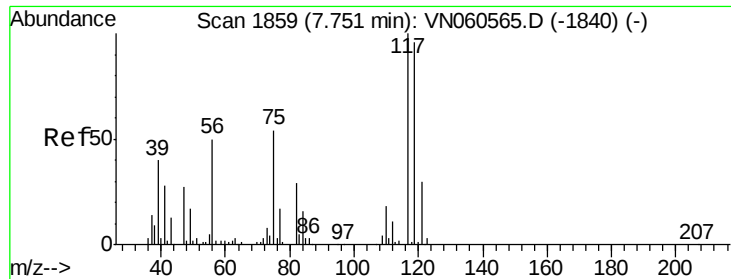
Tot Ion:113 Resp: 93661
 Ion Ratio Lower Upper
 113 100
 111 100.9 82.9 124.3
 192 19.9 15.8 23.8



#36
 1,1-Dichloropropene
 Concen: 4.950 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060610.D
 Acq: 18 Mar 2020 23:13

Tgt Ion: 75 Resp: 15142
 Ion Ratio Lower Upper
 75 100
 110 7.3 16.9 50.6#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 6.621 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060610.D

Acq: 18 Mar 2020 23:13

Instrument :

MSVOA_N

ClientSampleId :

TB-01-200317

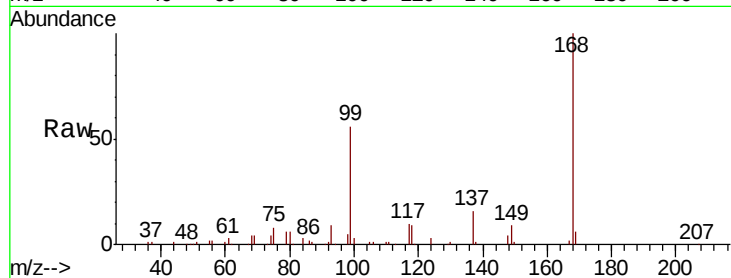
Tot Ion:117 Resp: 18154

Ion Ratio Lower Upper

117 100

119 4.3 76.2 114.2#

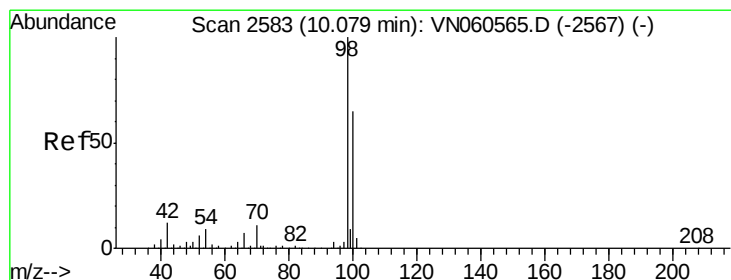
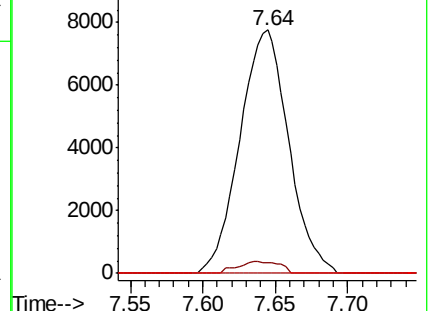
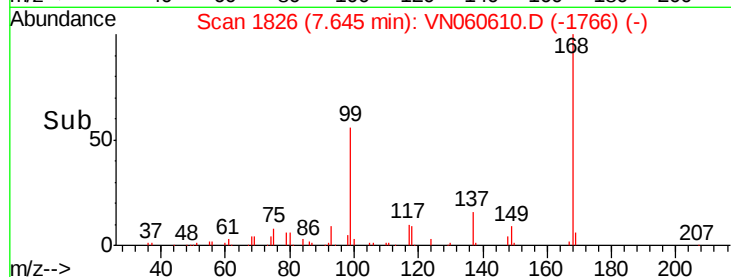
121 0.0 23.7 35.5#



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



#50

Toluene-d8

Concen: 49.404 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN060610.D

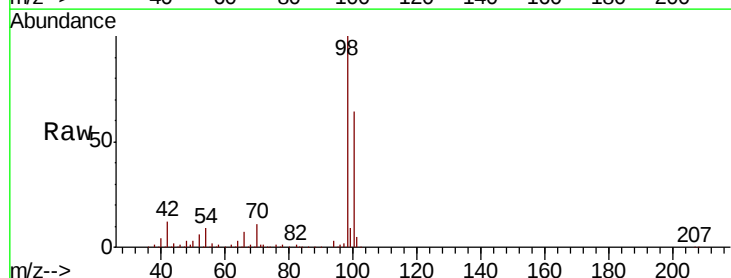
Acq: 18 Mar 2020 23:13

Tgt Ion: 98 Resp: 385483

Ion Ratio Lower Upper

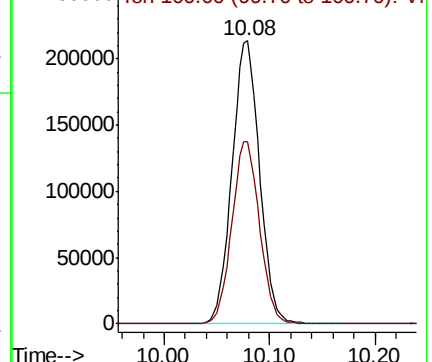
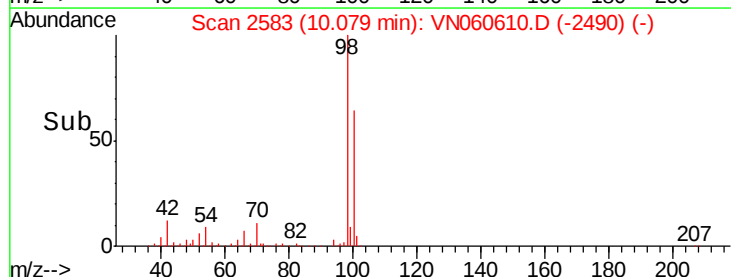
98 100

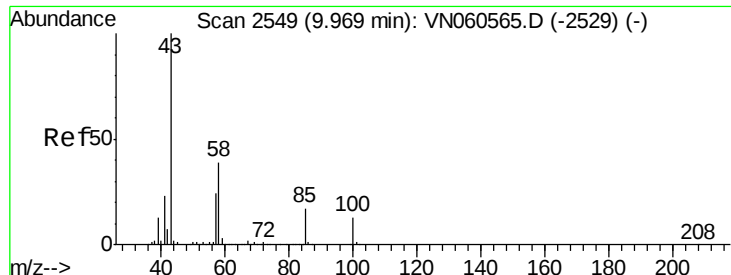
100 64.7 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#51

4-Methyl-2-Pentanone

Concen: 0.234 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060610.D

Acq: 18 Mar 2020 23:13

Instrument :

MSVOA_N

ClientSampleId :

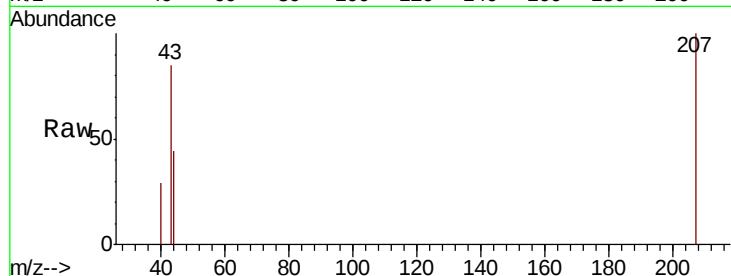
TB-01-200317

Tot Ion: 43 Resp: 727

Ion Ratio Lower Upper

43 100

58 0.0 30.8 46.2#



Abundance Ion 43.00 (42.70 to 43.70): VN060565.D (-2529) (-)

Ion 58.00 (57.70 to 58.70): VN060565.D (-2529) (-)

9.97

400

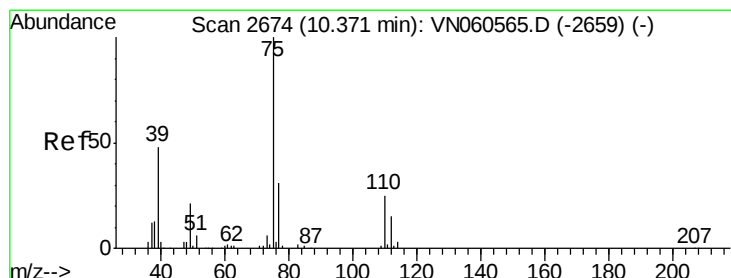
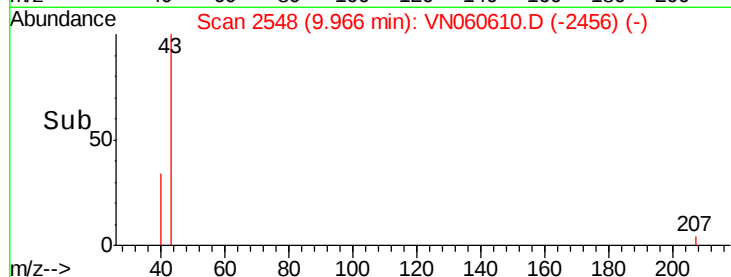
300

200

100

0

Time-->



#53

t-1,3-Dichloropropene

Concen: 0.236 ug/l

RT: 10.37 min Scan# 2673

Delta R.T. -0.00 min

Lab File: VN060610.D

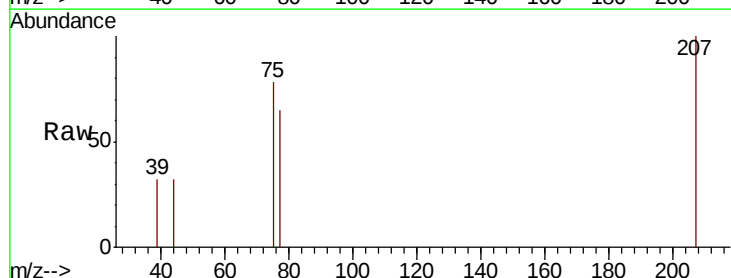
Acq: 18 Mar 2020 23:13

Tgt Ion: 75 Resp: 830

Ion Ratio Lower Upper

75 100

77 47.7 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN060565.D (-2659) (-)

Ion 76.90 (76.60 to 77.60): VN060565.D (-2659) (-)

10.37

600

500

400

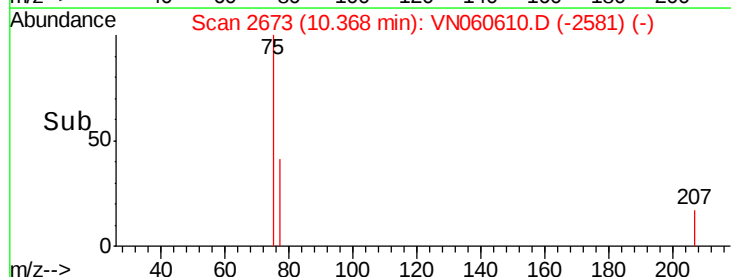
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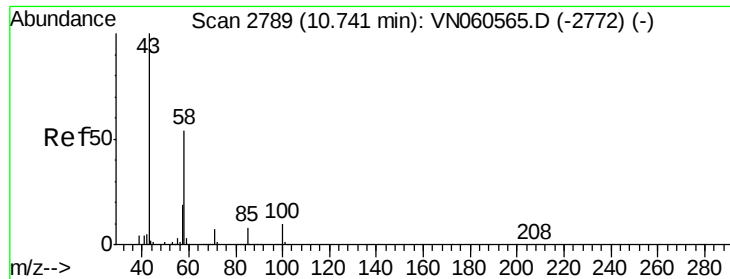
200

100

0

Time-->

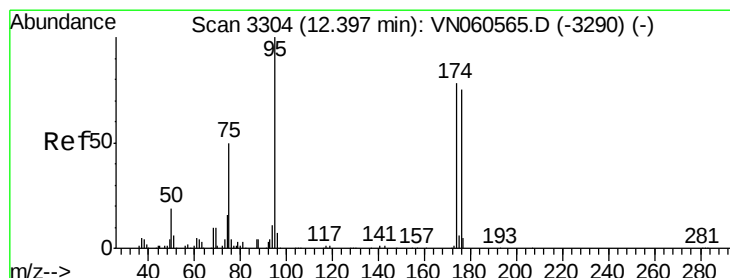
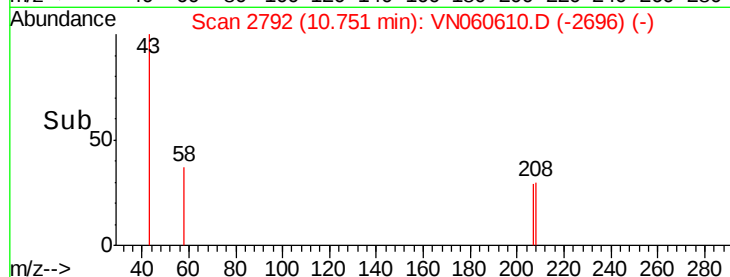
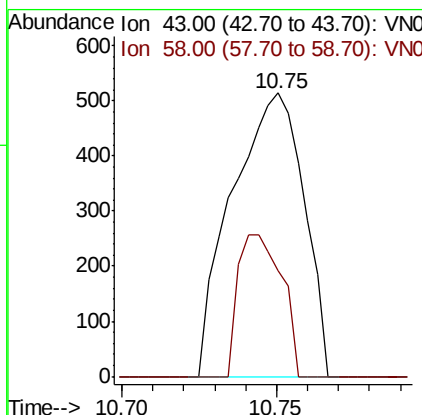
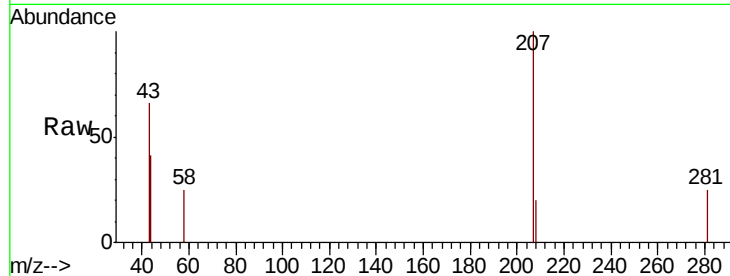




#59
2-Hexanone
Concen: 0.371 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.01 min
Lab File: VN060610.D
Acq: 18 Mar 2020 23:13

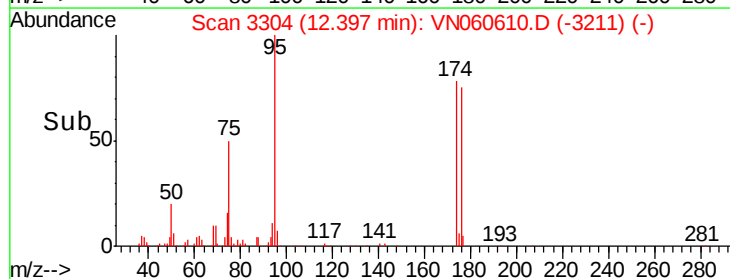
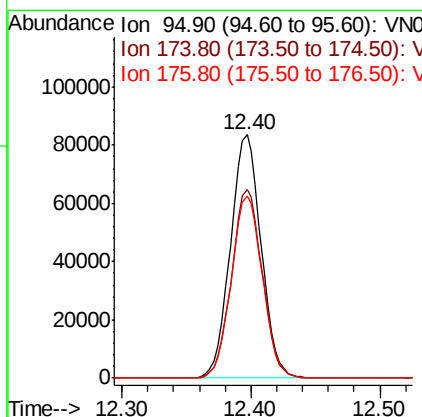
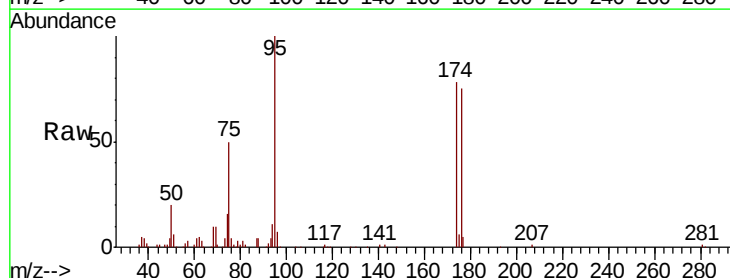
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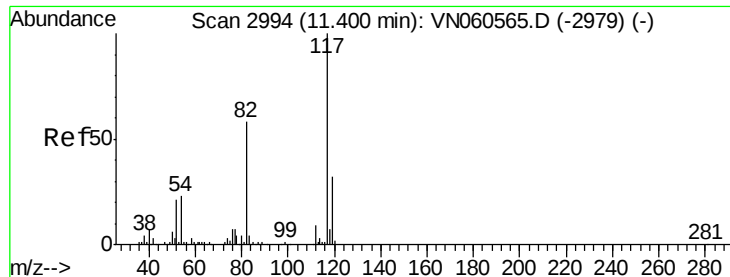
Tot Ion: 43 Resp: 830
Ion Ratio Lower Upper
43 100
58 30.2 26.7 80.1



#62
4-Bromofluorobenzene
Concen: 48.123 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060610.D
Acq: 18 Mar 2020 23:13

Tgt Ion: 95 Resp: 137612
Ion Ratio Lower Upper
95 100
174 77.8 0.0 157.6
176 76.0 0.0 150.6

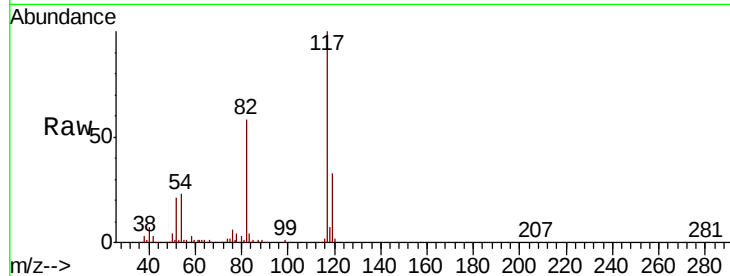




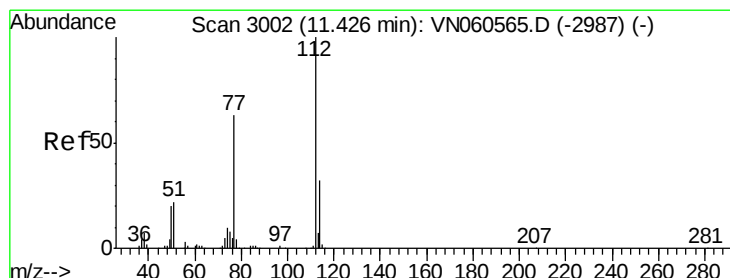
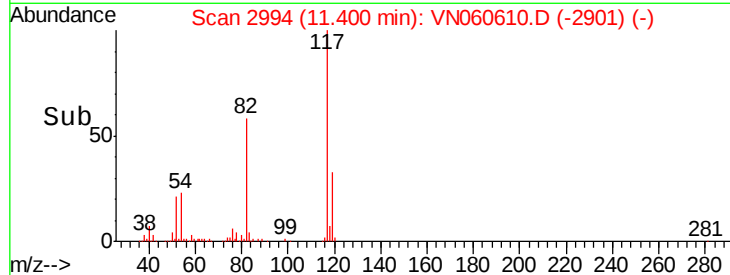
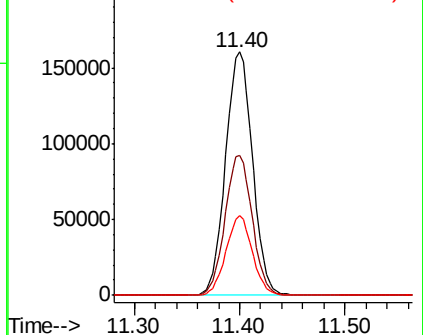
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060610.D
Acq: 18 Mar 2020 23:13

Instrument :
MSVOA_N
ClientSampleId :
TB-01-200317

Tot Ion:117 Resp: 283810
Ion Ratio Lower Upper
117 100
82 57.6 46.7 70.1
119 32.5 25.5 38.3

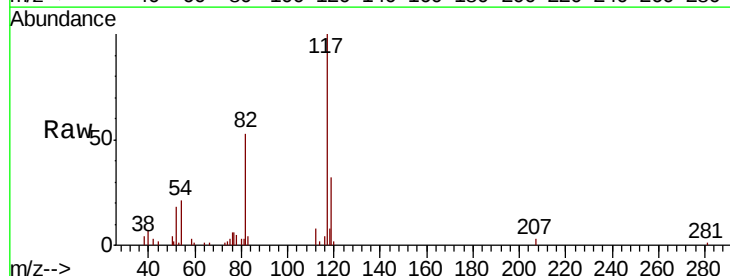


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

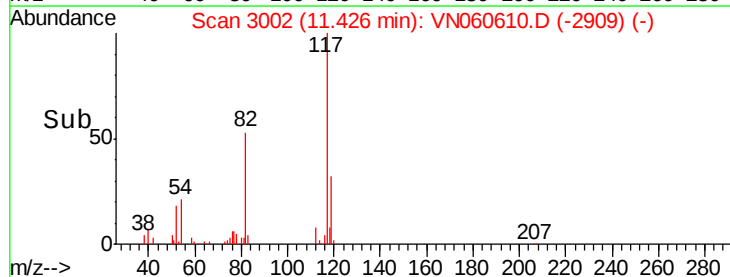
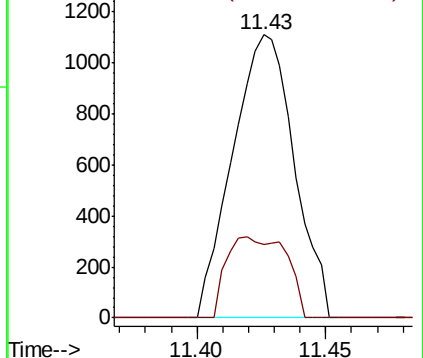


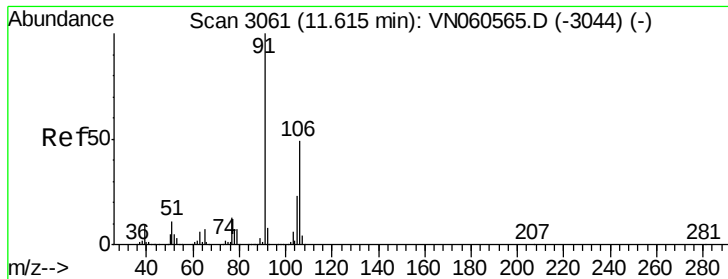
#65
Chlorobenzene
Concen: 0.329 ug/l
RT: 11.43 min Scan# 3002
Delta R.T. -0.00 min
Lab File: VN060610.D
Acq: 18 Mar 2020 23:13

Tgt Ion:112 Resp: 1849
Ion Ratio Lower Upper
112 100
114 25.9 25.8 38.6



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#68

m/p-Xvlenes

Concen: 0.260 ug/l

RT: 11.62 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VN060610.D

Acq: 18 Mar 2020 23:13

Instrument :

MSVOA_N

ClientSampleId :

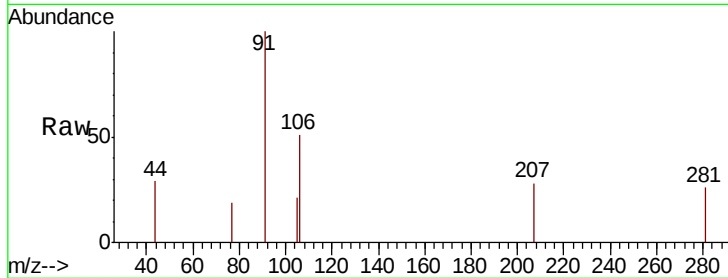
TB-01-200317

Tot Ion:106 Resp: 1009

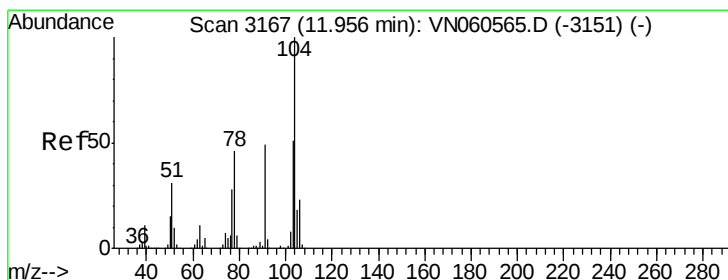
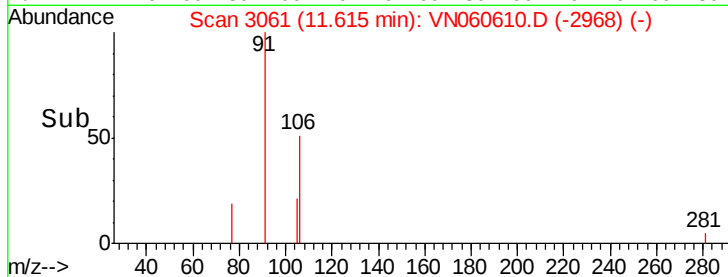
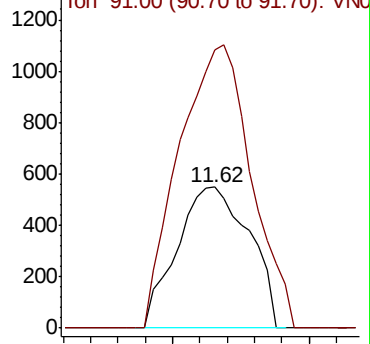
Ion Ratio Lower Upper

106 100

91 200.9 165.0 247.4



Abundance Ion 106.00 (105.70 to 106.70): V



#70

Styrene

Concen: 0.246 ug/l

RT: 11.96 min Scan# 3168

Delta R.T. 0.00 min

Lab File: VN060610.D

Acq: 18 Mar 2020 23:13

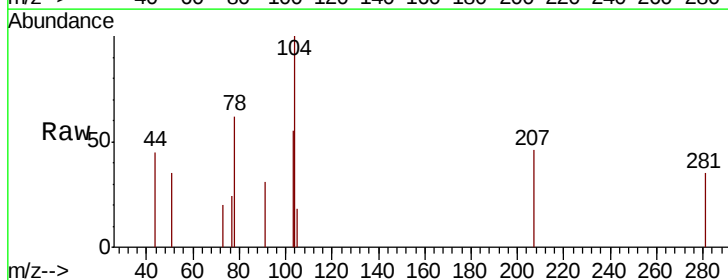
Tgt Ion:104 Resp: 1495

Ion Ratio Lower Upper

104 100

78 54.7 41.2 61.8

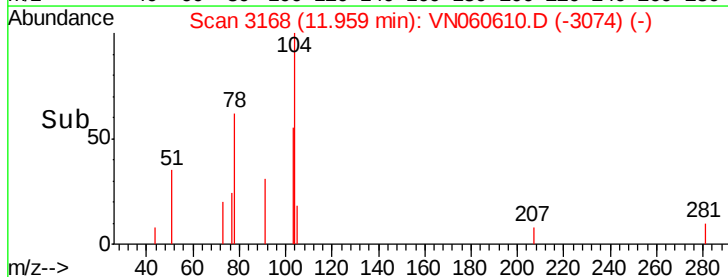
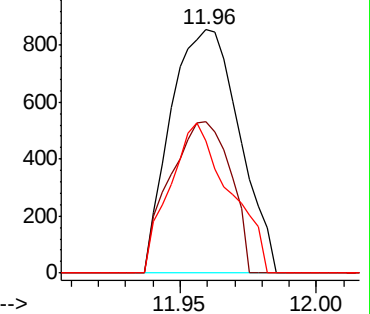
103 53.8 44.0 66.0

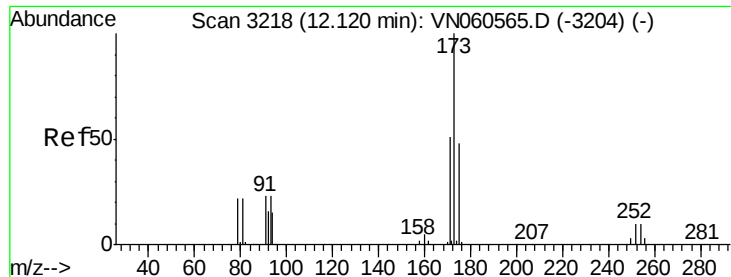


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 1.726 ug/l

RT: 12.39 min Scan# 3301

Delta R.T. 0.27 min

Lab File: VN060610.D

Acq: 18 Mar 2020 23:13

Instrument :

MSVOA_N

ClientSampleId :

TB-01-200317

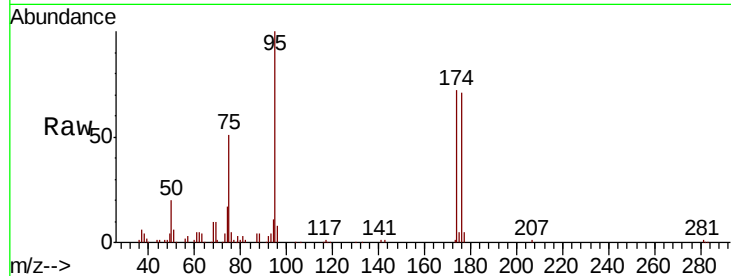
Tot Ion:173 Resp: 80

Ion Ratio Lower Upper

173 100

175 8518.8 24.1 72.4#

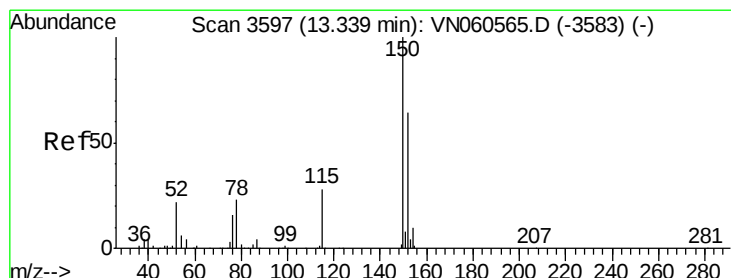
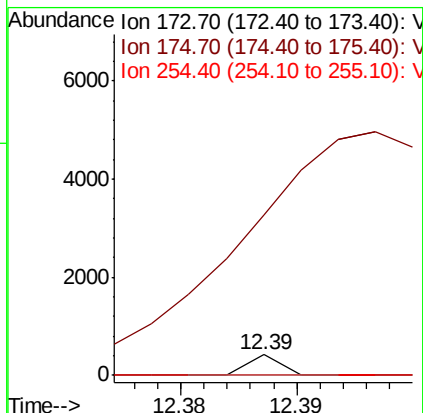
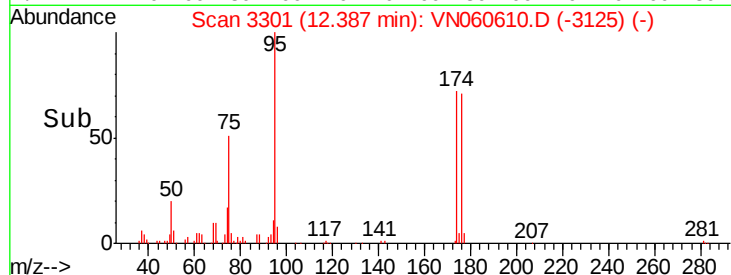
254 0.0 0.0 0.0



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: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060610.D

Acq: 18 Mar 2020 23:13

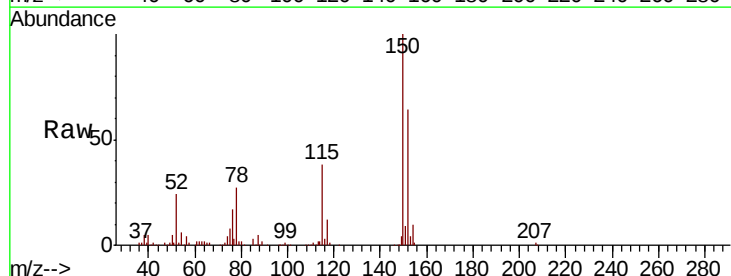
Tgt Ion:152 Resp: 124663

Ion Ratio Lower Upper

152 100

115 59.5 30.2 90.6

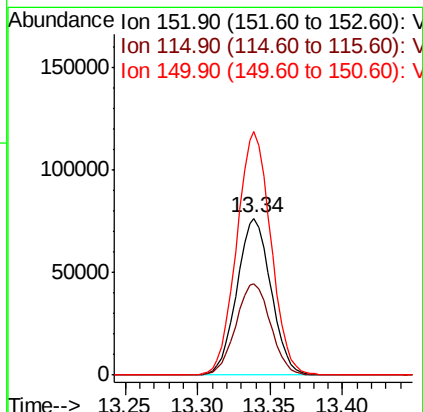
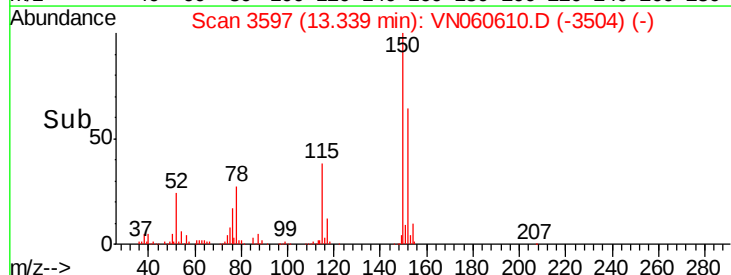
150 156.1 0.0 350.2

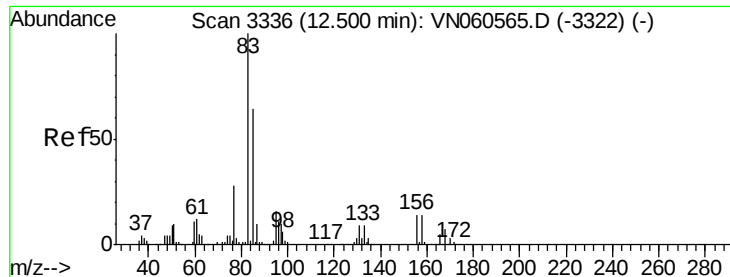


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

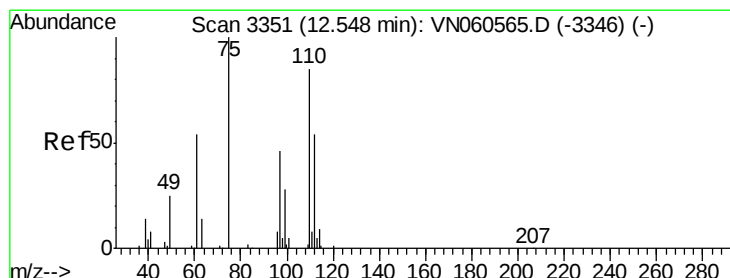
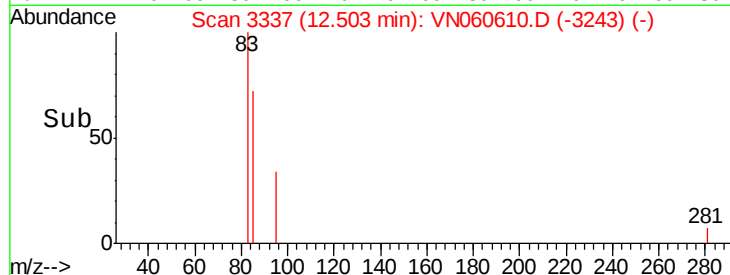
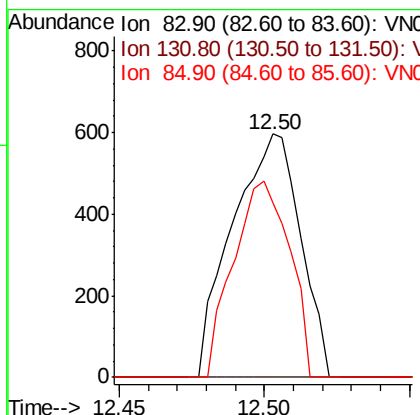
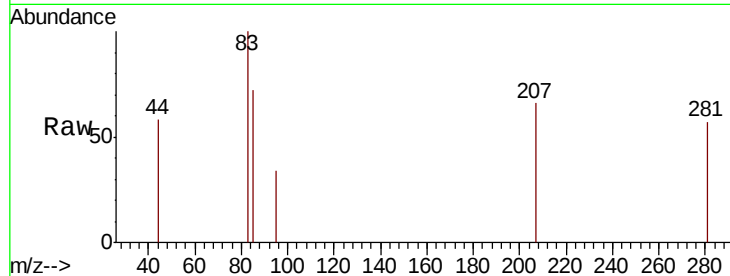




#75
 1,1,2,2-Tetrachloroethane
 Concen: 0.343 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. 0.00 min
 Lab File: VN060610.D
 Acq: 18 Mar 2020 23:13

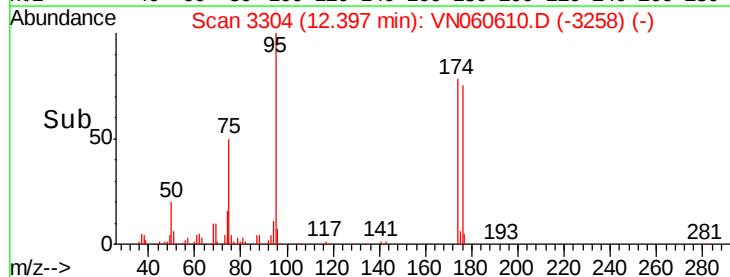
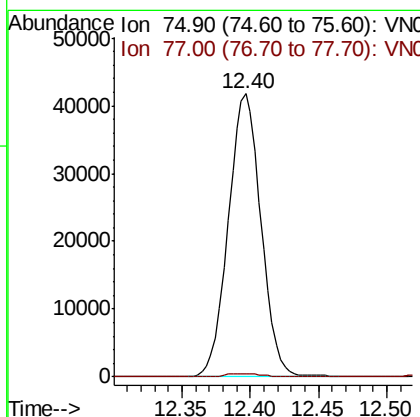
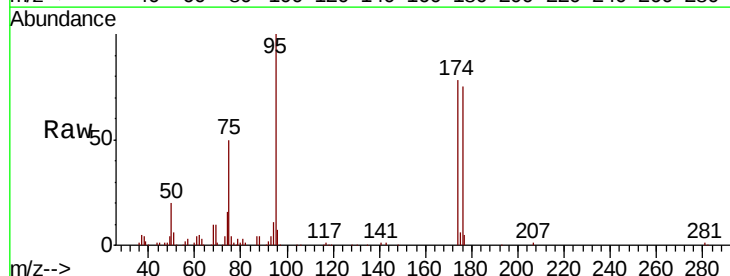
Instrument :
 MSVOA_N
 ClientSampleId :
 TB-01-200317

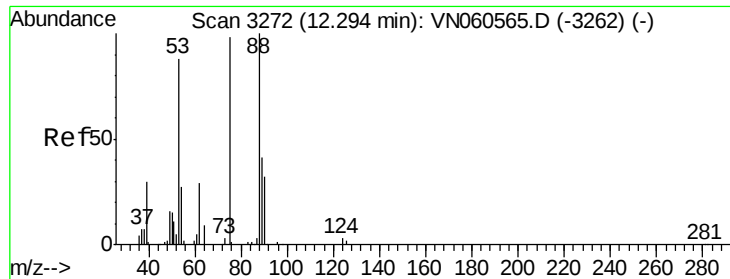
Tot Ion: 83 Resp: 971
 Ion Ratio Lower Upper
 83 100
 131 0.0 4.9 14.7#
 85 66.5 32.5 97.4



#76
 1,2,3-Trichloropropane
 Concen: 25.782 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. -0.15 min
 Lab File: VN060610.D
 Acq: 18 Mar 2020 23:13

Tgt Ion: 75 Resp: 69354
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#

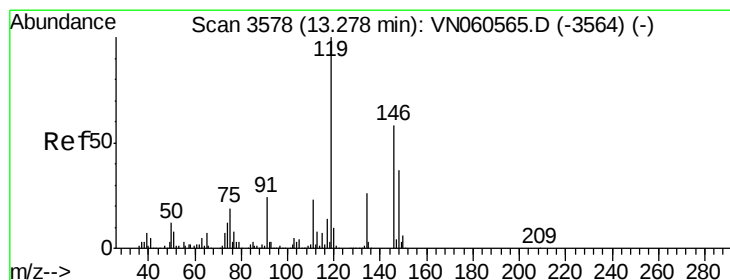
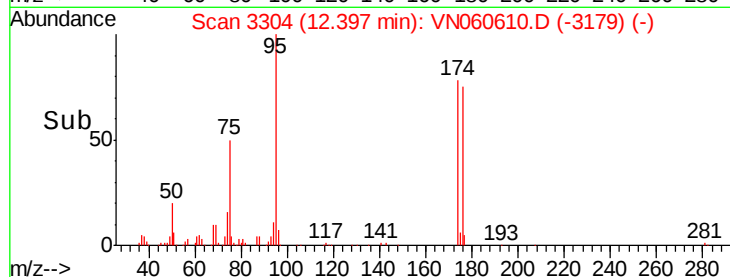
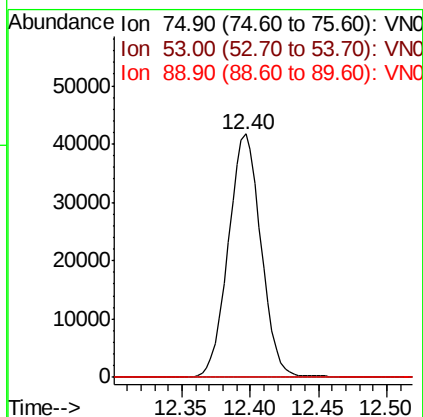
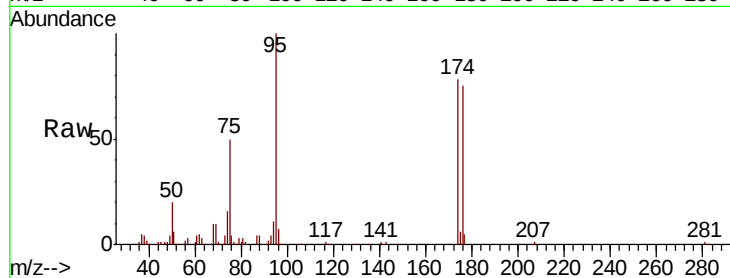




#81
trans-1,4-Dichloro-2-butene
Concen: 66.217 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN060610.D
Acq: 18 Mar 2020 23:13

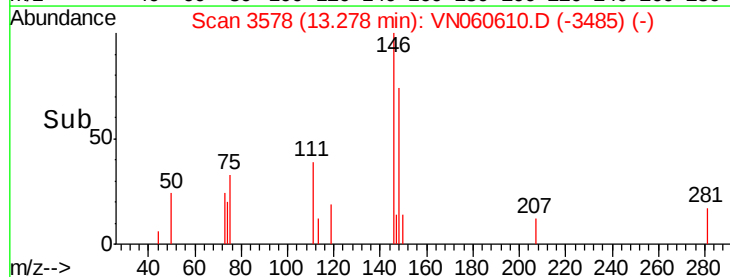
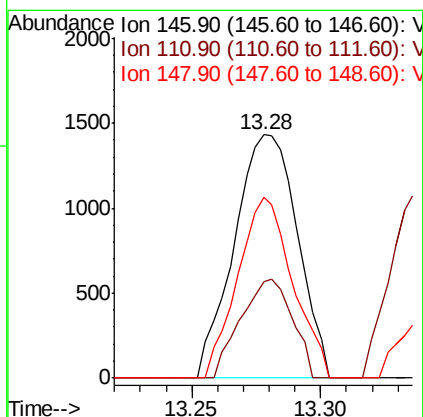
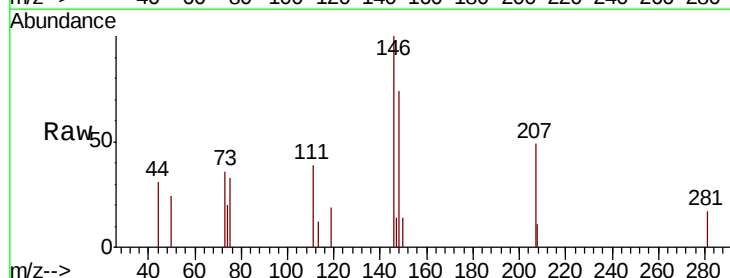
Instrument :
MSVOA_N
ClientSampled :
TB-01-200317

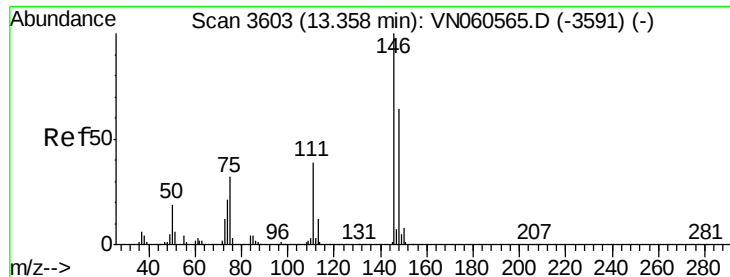
Tot Ion: 75 Resp: 69354
Ion Ratio Lower Upper
75 100
53 0.0 73.0 109.4#
89 0.0 34.8 52.2#



#87
1,3-Dichlorobenzene
Concen: 0.615 ug/l
RT: 13.28 min Scan# 3578
Delta R.T. -0.00 min
Lab File: VN060610.D
Acq: 18 Mar 2020 23:13

Tgt Ion: 146 Resp: 2447
Ion Ratio Lower Upper
146 100
111 33.1 20.3 60.8
148 64.4 32.5 97.4

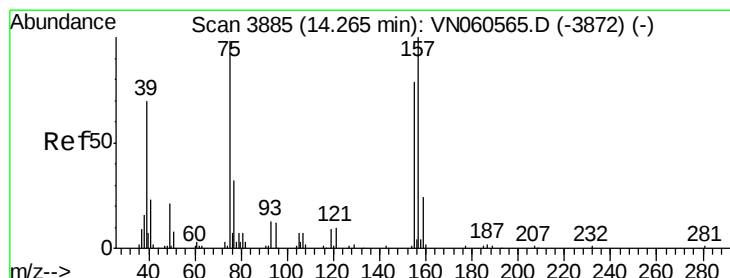
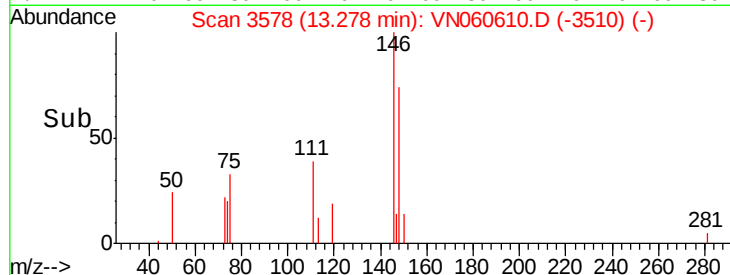
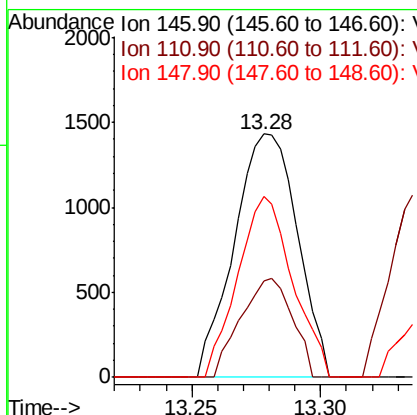
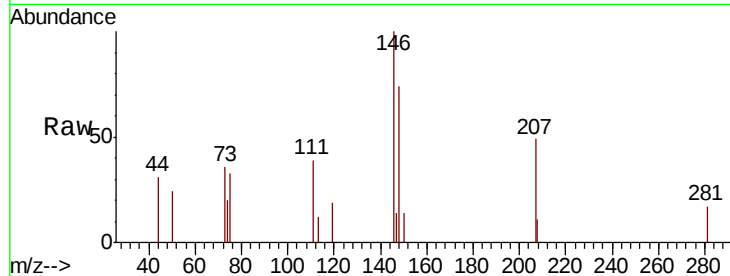




#88
 1,4-Dichlorobenzene
 Concen: 0.613 ug/l
 RT: 13.28 min Scan# 3578
 Delta R.T. -0.08 min
 Lab File: VN060610.D
 Acq: 18 Mar 2020 23:13

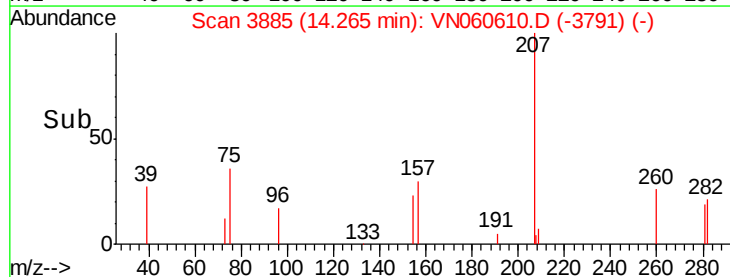
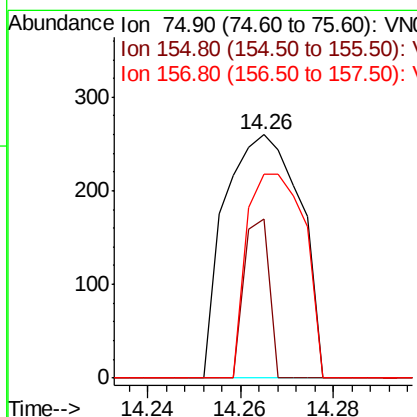
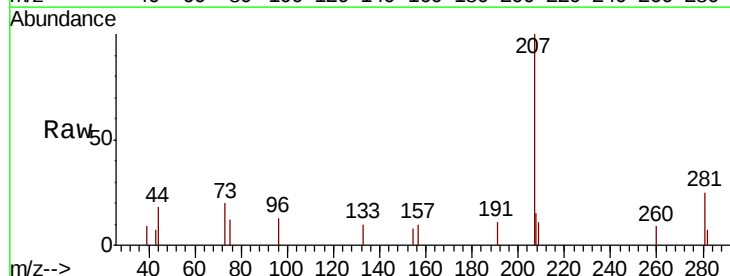
Instrument :
 MSVOA_N
 ClientSampleId :
 TB-01-200317

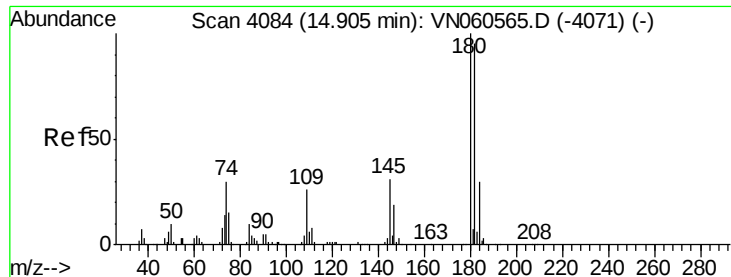
Tot Ion:146 Resp: 2447
 Ion Ratio Lower Upper
 146 100
 111 33.1 19.6 58.7
 148 64.4 32.1 96.3



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.228 ug/l
 RT: 14.26 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VN060610.D
 Acq: 18 Mar 2020 23:13

Tgt Ion: 75 Resp: 293
 Ion Ratio Lower Upper
 75 100
 155 21.5 40.7 122.1#
 157 64.2 51.5 154.7

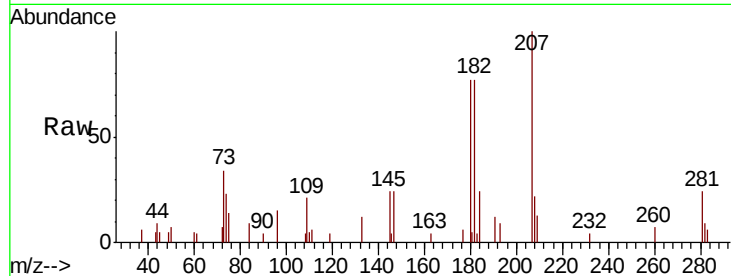




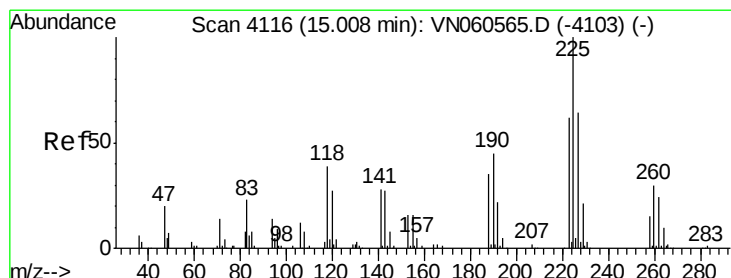
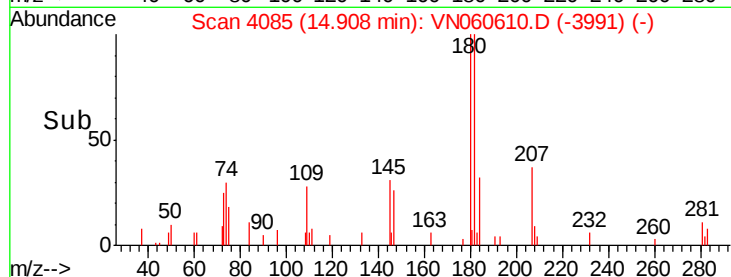
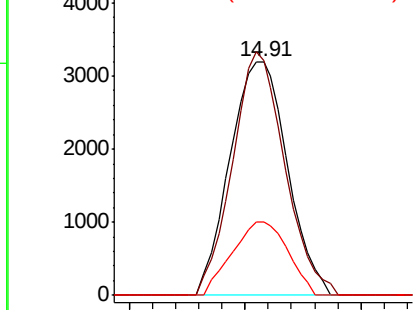
#93
 1,2,4-Trichlorobenzene
 Concen: 2.358 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN060610.D
 Acq: 18 Mar 2020 23:13

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-01-200317

Tot Ion:180 Resp: 5506
 Ion Ratio Lower Upper
 180 100
 182 94.6 47.9 143.8
 145 30.4 15.4 46.2

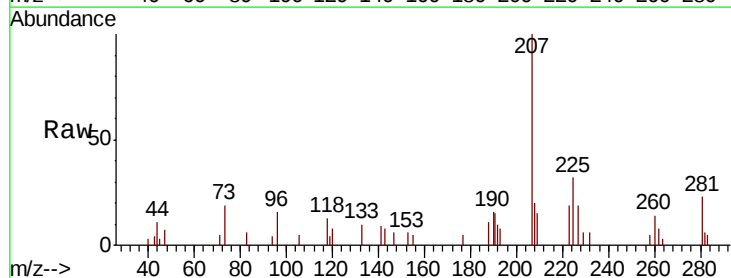


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

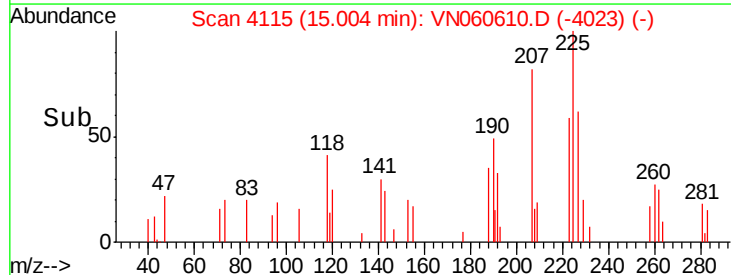
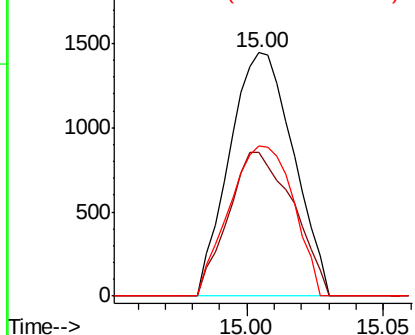


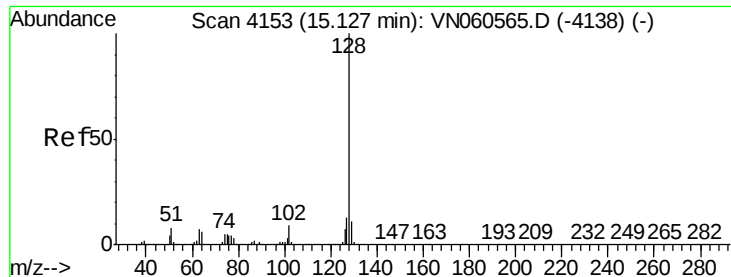
#94
 Hexachlorobutadiene
 Concen: 2.050 ug/l
 RT: 15.00 min Scan# 4115
 Delta R.T. -0.00 min
 Lab File: VN060610.D
 Acq: 18 Mar 2020 23:13

Tgt Ion:225 Resp: 2346
 Ion Ratio Lower Upper
 225 100
 223 60.3 31.6 95.0
 227 62.1 32.3 96.8



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 3.632 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060610.D

Acq: 18 Mar 2020 23:13

Instrument :

MSVOA_N

ClientSampleId :

TB-01-200317

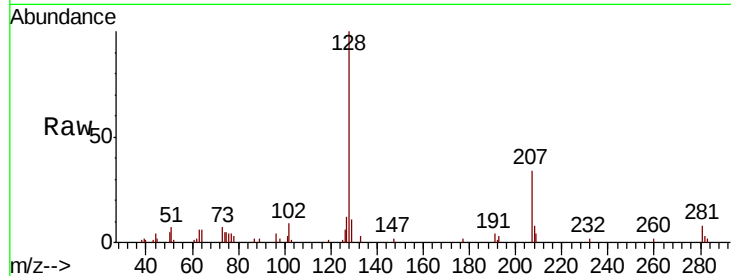
Tot Ion:128 Resp: 25503

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.2

129 10.6 8.8 13.2

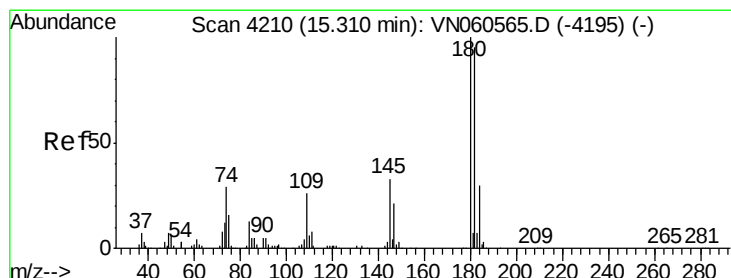
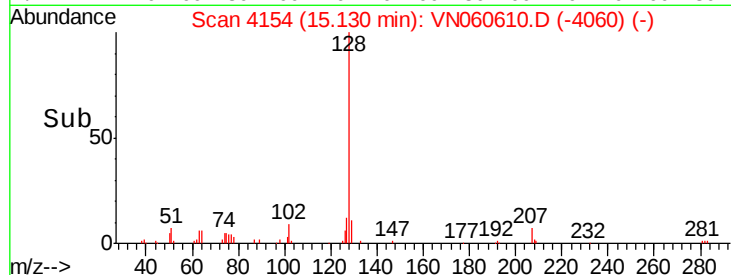
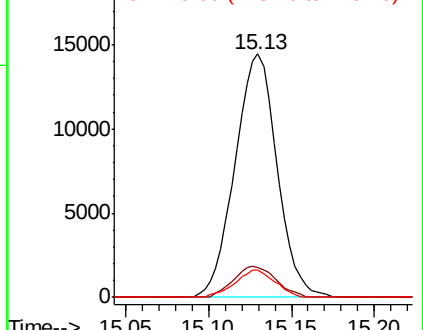


Abundance

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: 0.213 ug/l

RT: 15.31 min Scan# 4209

Delta R.T. -0.00 min

Lab File: VN060610.D

Acq: 18 Mar 2020 23:13

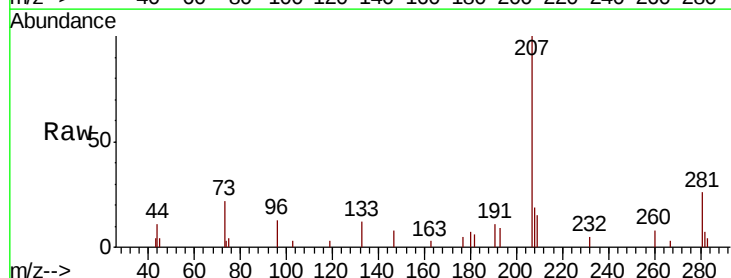
Tgt Ion:180 Resp: 490

Ion Ratio Lower Upper

180 100

182 103.9 47.5 142.6

145 0.0 16.3 48.8#



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

