

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021920\
 Data File : VN060144.D
 Acq On : 19 Feb 2020 10:24
 Operator : JC/MD
 Sample : VN0219MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 20 01:14:27 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	170610	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	264709	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	228046	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	82162	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	99956	48.15	ug/l	0.00
Spiked Amount			Recovery	=	96.30%	
35) Dibromofluoromethane	7.56	113	80785	49.65	ug/l	0.00
Spiked Amount			Recovery	=	99.30%	
50) Toluene-d8	10.08	98	316620	49.41	ug/l	0.00
Spiked Amount			Recovery	=	98.82%	
62) 4-Bromofluorobenzene	12.40	95	99144	42.11	ug/l	0.00
Spiked Amount			Recovery	=	84.22%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Cyclohexane	7.64	56	3358	1.144	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	12353	5.038	ug/l #	45
38) Carbon Tetrachloride	7.64	117	16212	6.088	ug/l #	15
59) 2-Hexanone	10.75	43	788	0.465	ug/l #	56
71) Bromoform	12.40	173	410	0.290	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	51177	32.557	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	51177	79.715	ug/l #	12
88) 1,4-Dichlorobenzene	13.36	146	664	0.246	ug/l #	1
91) 1,2-Dichlorobenzene	13.66	146	587	0.223	ug/l #	67
92) 1,2-Dibromo-3-Chloropropan	14.27	75	434	0.390	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.91	180	1276	0.823	ug/l	83
94) Hexachlorobutadiene	15.01	225	229	0.252	ug/l #	53
95) Naphthalene	15.13	128	5333	1.274	ug/l	98
96) 1,2,3-Trichlorobenzene	15.31	180	1985	1.286	ug/l	92

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060144.D

Acq: 19 Feb 2020 10:24

Instrument :

MSVOA_N

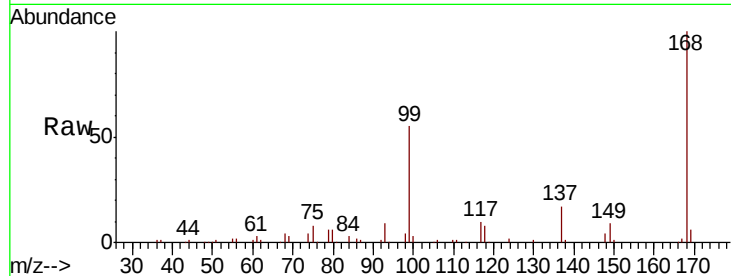
ClientSampleId :

Tot Ion:168 Resp: 170610

Ion Ratio Lower Upper

168 100

99 54.7 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

60000

40000

20000

0

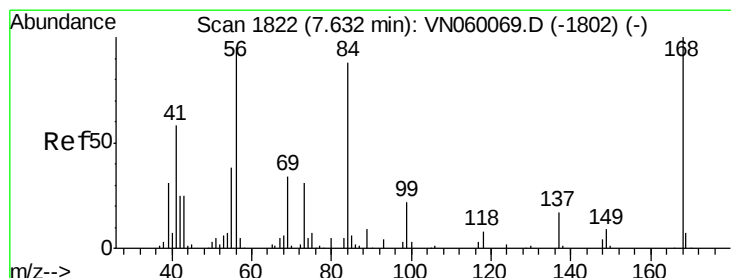
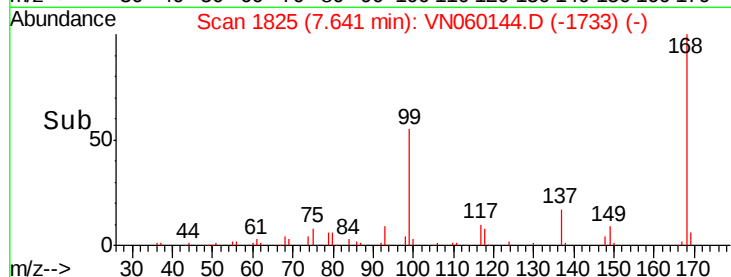
Time-->

7.50

7.60

7.70

7.80



#31

Cyclohexane

Concen: 1.144 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN060144.D

Acq: 19 Feb 2020 10:24

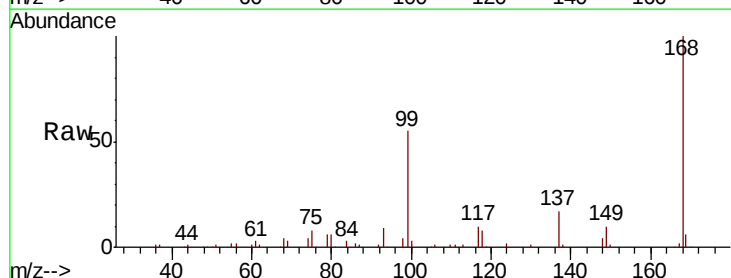
Tgt Ion: 56 Resp: 3358

Ion Ratio Lower Upper

56 100

69 147.0 28.3 42.5#

84 152.6 72.6 108.8#



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

3000

2500

2000

1500

1000

500

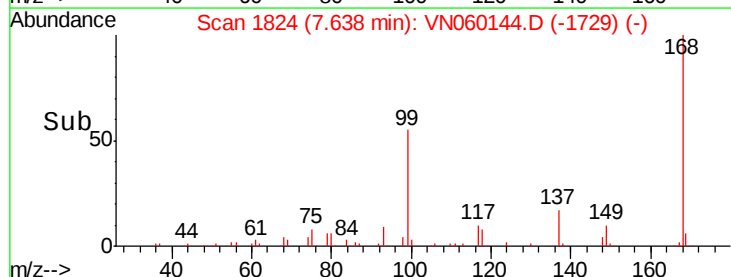
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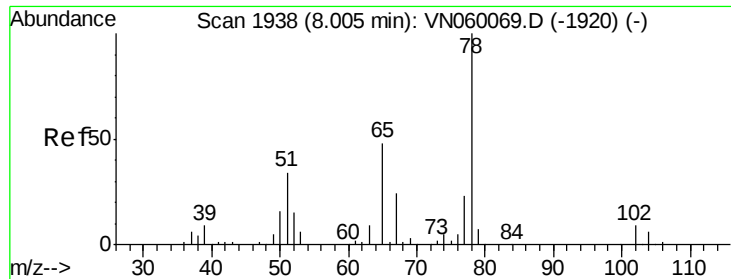
Time-->

7.60

7.65

7.70

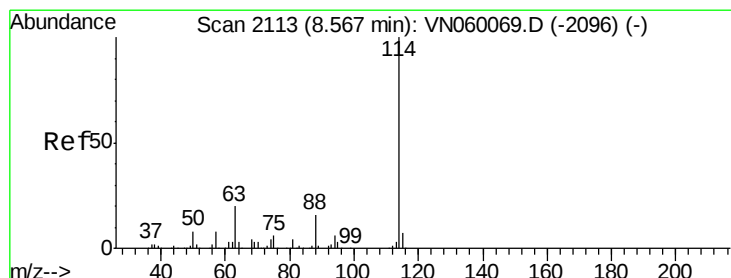
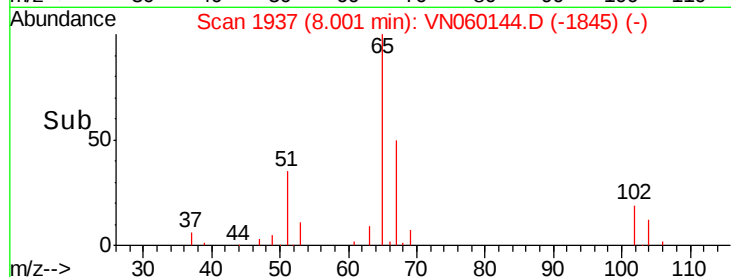
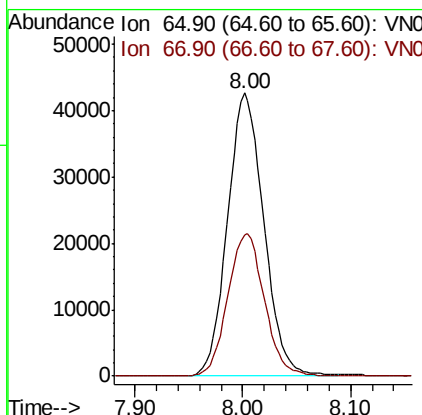
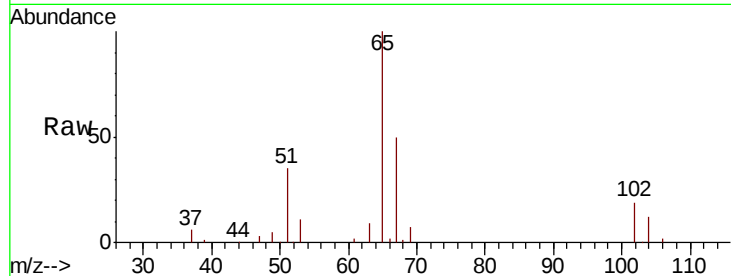




#33
 1,2-Dichloroethane-d4
 Concen: 48.148 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060144.D
 Acq: 19 Feb 2020 10:24

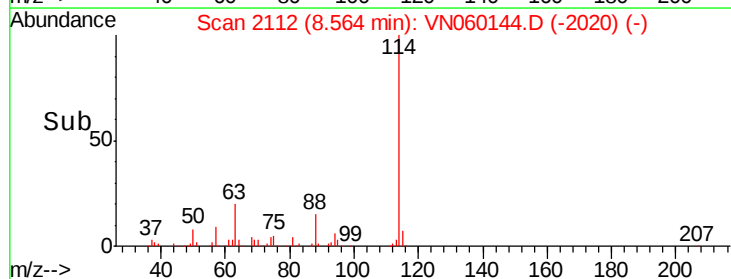
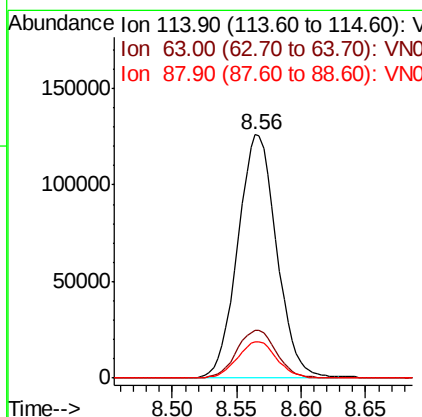
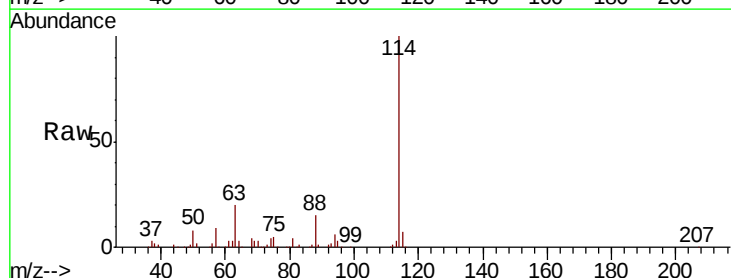
Instrument :
 MSVOA_N
 ClientSampleId :

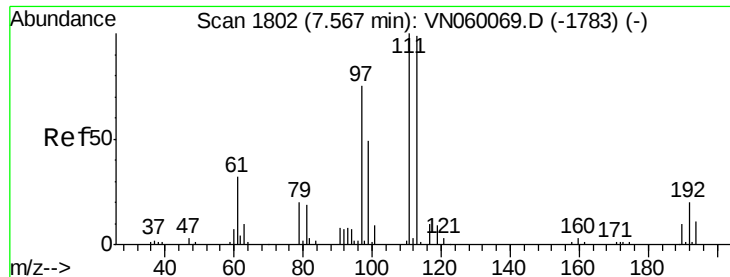
Tot Ion: 65 Resp: 99956
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN060144.D
 Acq: 19 Feb 2020 10:24

Tgt Ion: 114 Resp: 264709
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 40.0
 88 15.0 0.0 31.6

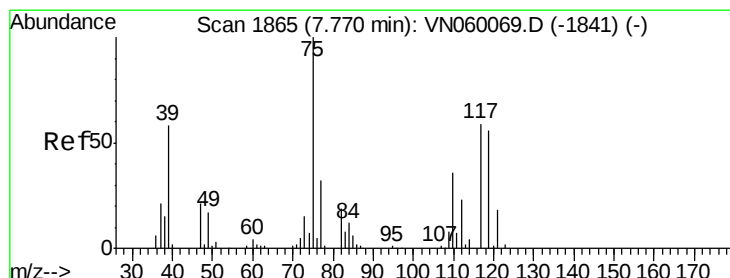
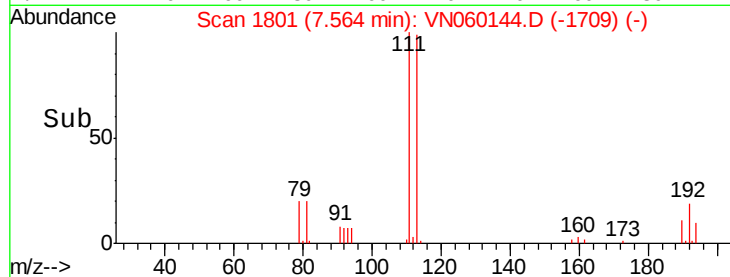
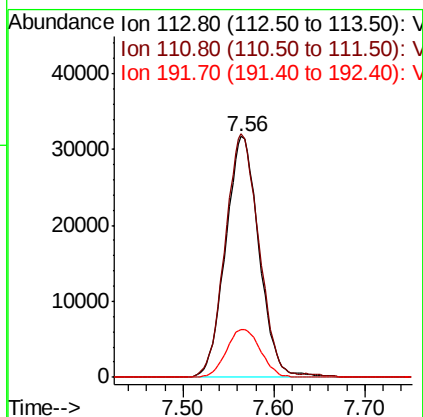
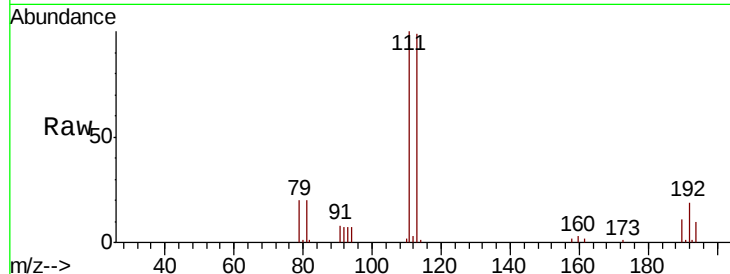




#35
 Dibromofluoromethane
 Concen: 49.648 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060144.D
 Acq: 19 Feb 2020 10:24

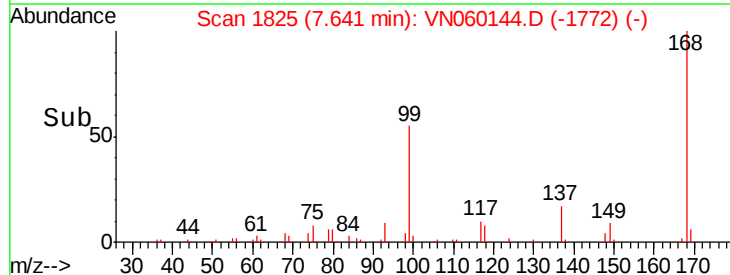
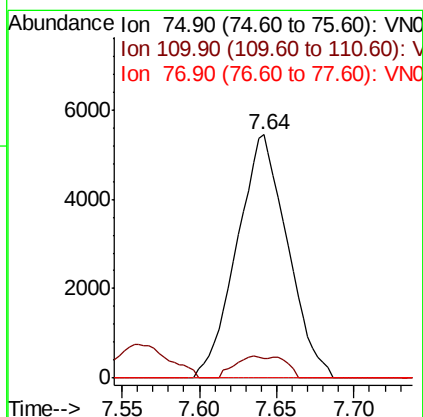
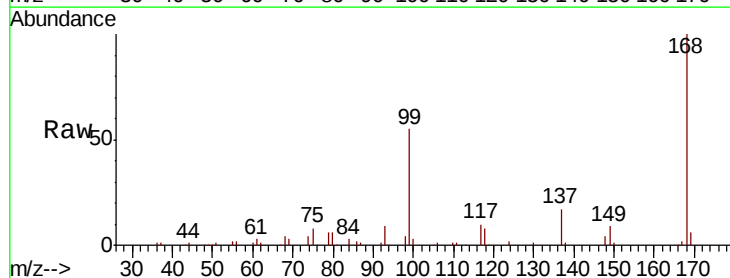
Instrument :
 MSVOA_N
 ClientSampleId :

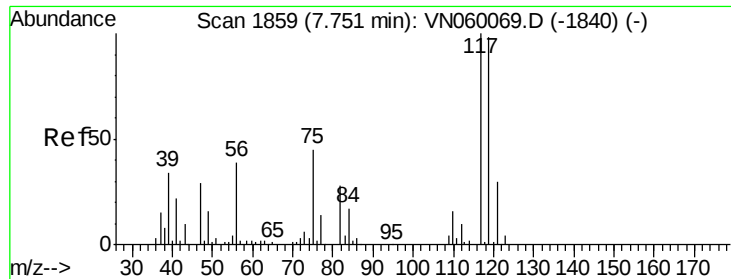
Tot Ion:113 Resp: 80785
 Ion Ratio Lower Upper
 113 100
 111 102.0 81.4 122.2
 192 20.4 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 5.038 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060144.D
 Acq: 19 Feb 2020 10:24

Tgt Ion: 75 Resp: 12353
 Ion Ratio Lower Upper
 75 100
 110 5.1 18.1 54.3#
 77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 6.088 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060144.D

Acq: 19 Feb 2020 10:24

Instrument :

MSVOA_N

ClientSampleId :

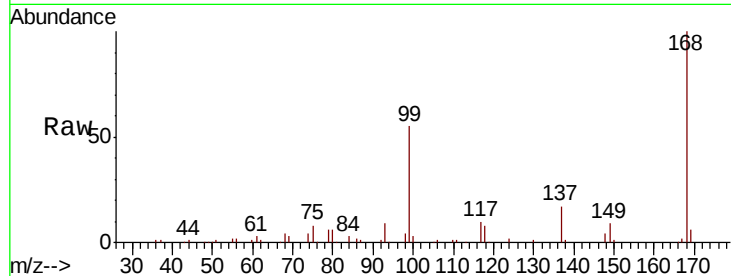
Tot Ion:117 Resp: 16212

Ion Ratio Lower Upper

117 100

119 4.8 78.2 117.4#

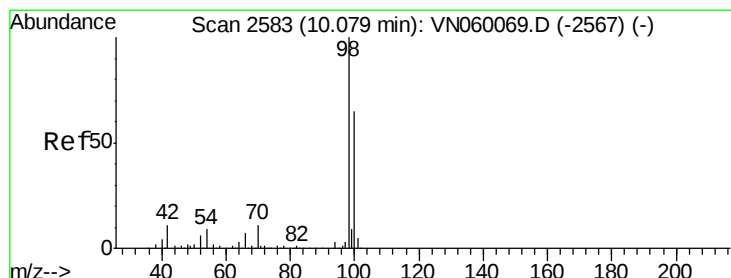
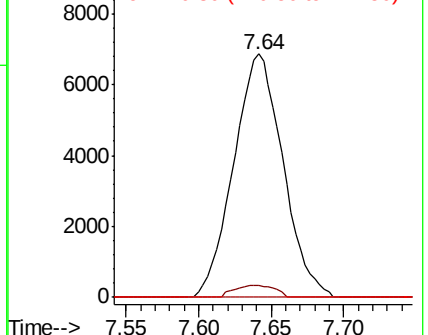
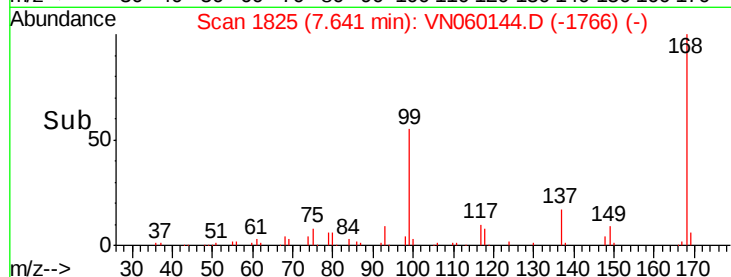
121 0.0 24.2 36.2#



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



#50

Toluene-d8

Concen: 49.412 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060144.D

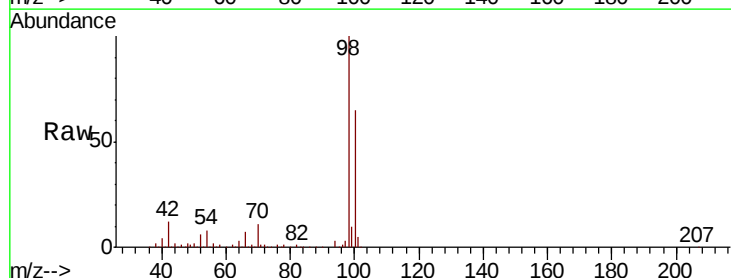
Acq: 19 Feb 2020 10:24

Tgt Ion: 98 Resp: 316620

Ion Ratio Lower Upper

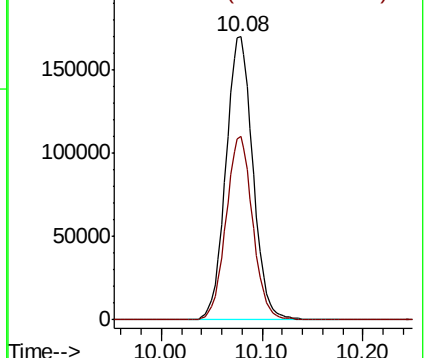
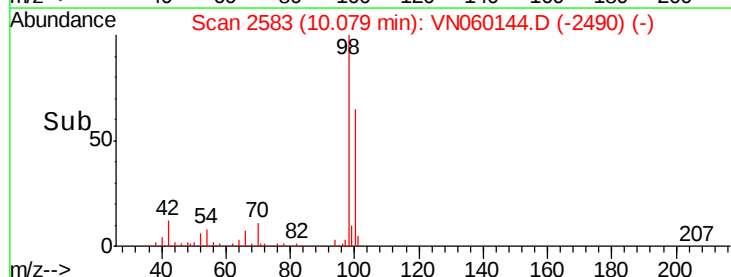
98 100

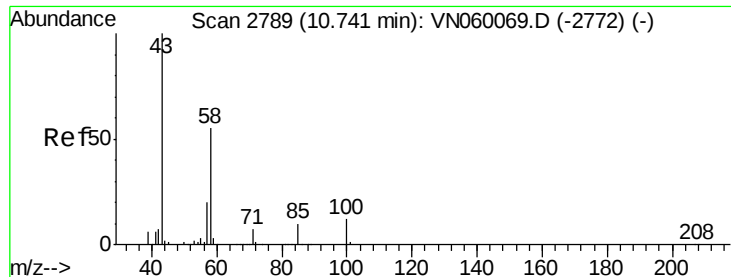
100 64.2 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#59

2-Hexanone

Concen: 0.465 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.01 min

Lab File: VN060144.D

Acq: 19 Feb 2020 10:24

Instrument :

MSVOA_N

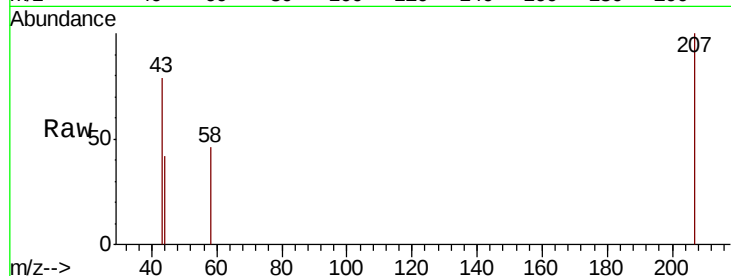
ClientSampled :

Tot Ion: 43 Resp: 788

Ion Ratio Lower Upper

43 100

58 23.0 27.5 82.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.75

400

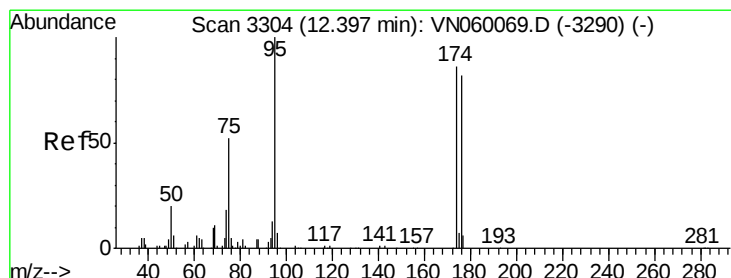
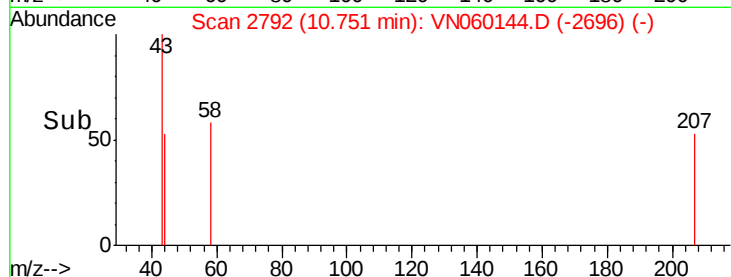
300

200

100

0

Time--> 10.70 10.75 10.80



#62

4-Bromofluorobenzene

Concen: 42.108 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060144.D

Acq: 19 Feb 2020 10:24

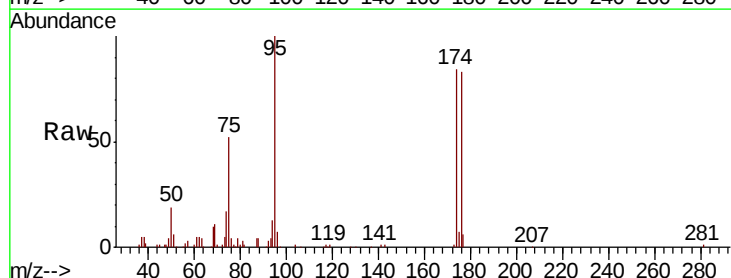
Tgt Ion: 95 Resp: 99144

Ion Ratio Lower Upper

95 100

174 85.0 0.0 169.8

176 81.5 0.0 164.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

80000

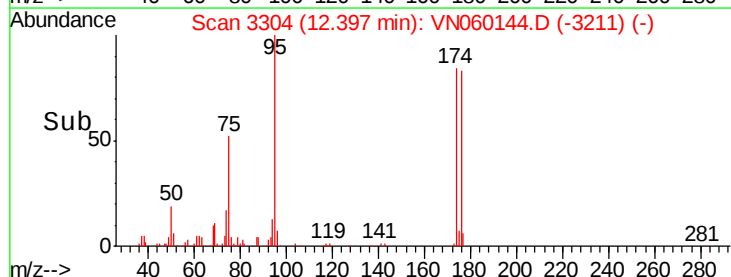
60000

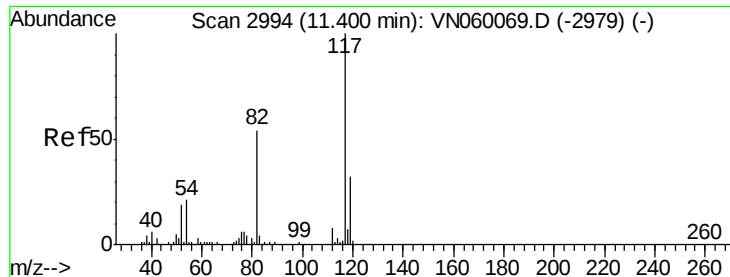
40000

20000

0

Time--> 12.35 12.40 12.45

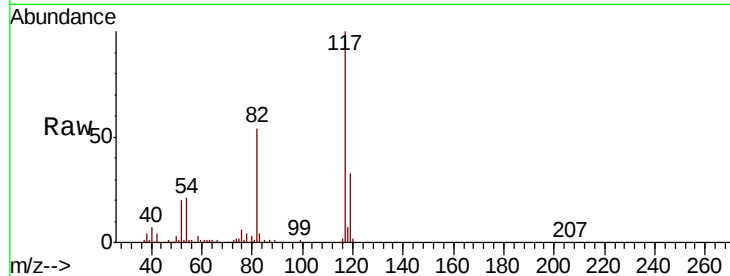




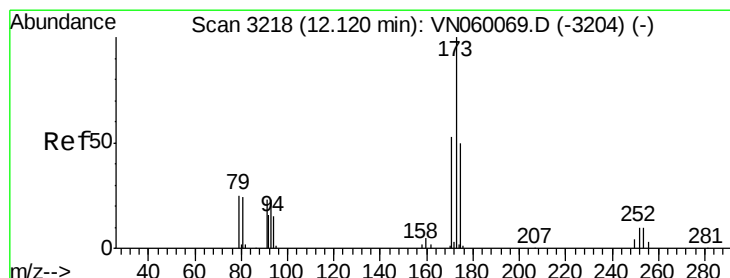
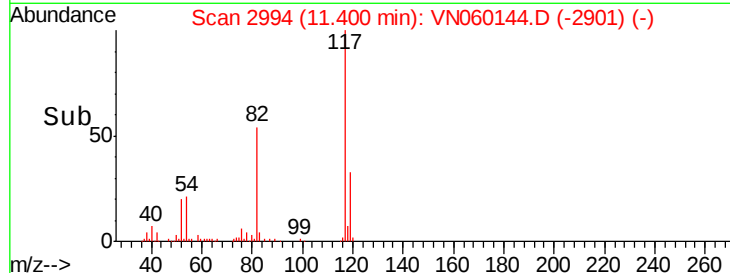
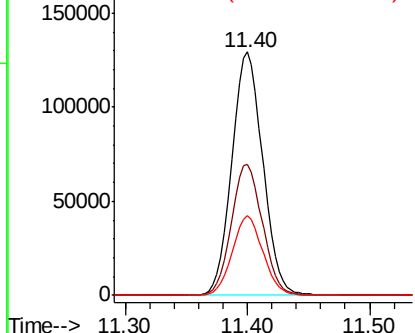
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060144.D
Acq: 19 Feb 2020 10:24

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 228046
Ion Ratio Lower Upper
117 100
82 53.9 43.4 65.0
119 32.6 25.8 38.6

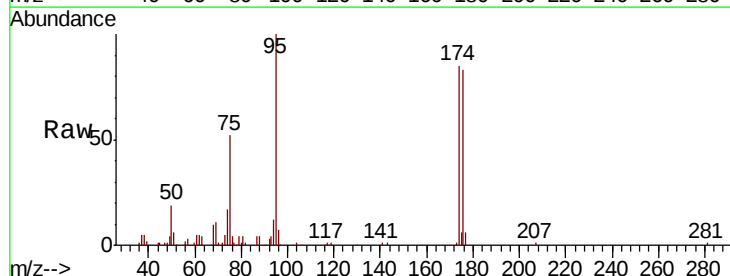


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

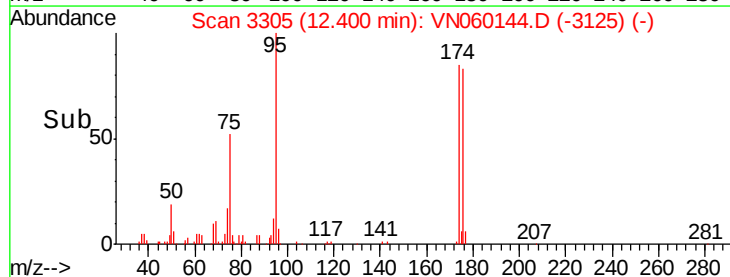
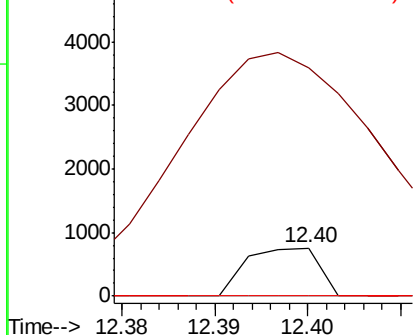


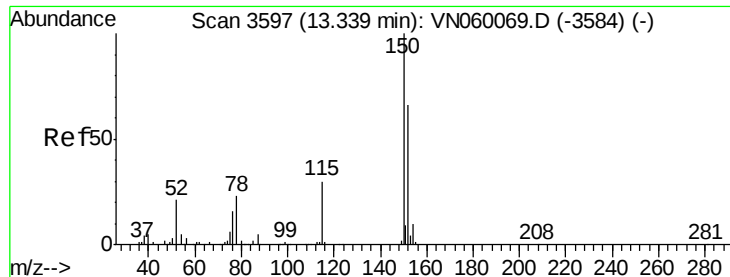
#71
Bromoform
Concen: 0.290 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.28 min
Lab File: VN060144.D
Acq: 19 Feb 2020 10:24

Tgt Ion:173 Resp: 410
Ion Ratio Lower Upper
173 100
175 1267.6 24.9 74.6#
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# 3598

Delta R.T. 0.00 min

Lab File: VN060144.D

Acq: 19 Feb 2020 10:24

Instrument :

MSVOA_N

ClientSampleId :

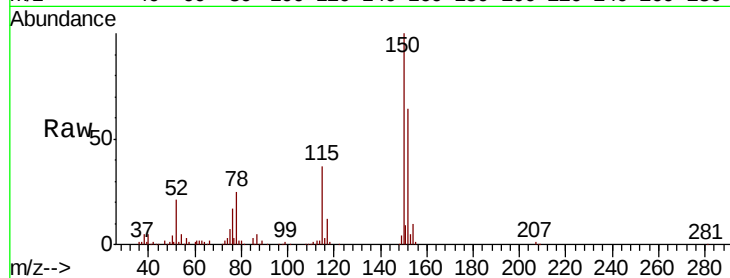
Tot Ion:152 Resp: 82162

Ion Ratio Lower Upper

152 100

115 58.8 28.9 86.8

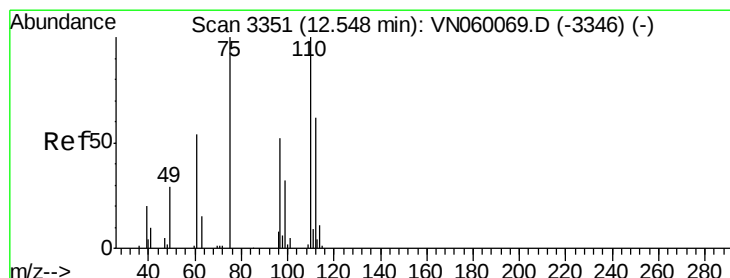
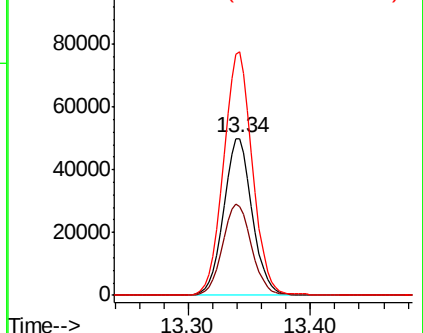
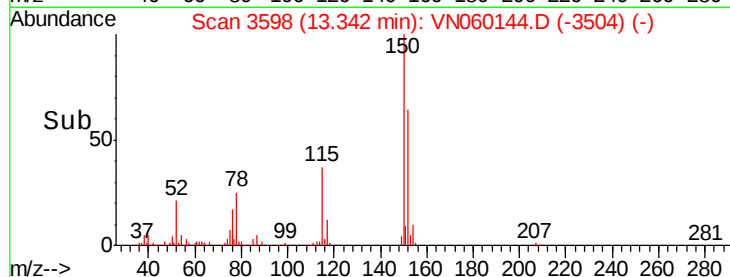
150 156.8 0.0 342.4



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



#76

1,2,3-Trichloropropane

Concen: 32.557 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060144.D

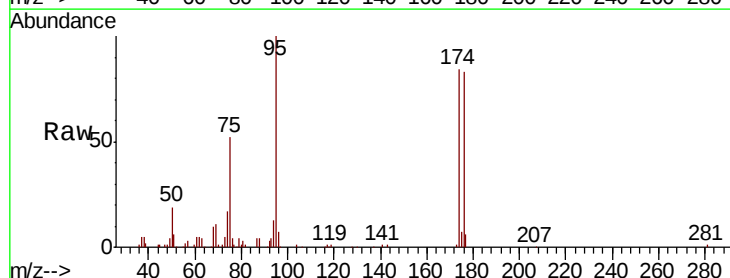
Acq: 19 Feb 2020 10:24

Tgt Ion: 75 Resp: 51177

Ion Ratio Lower Upper

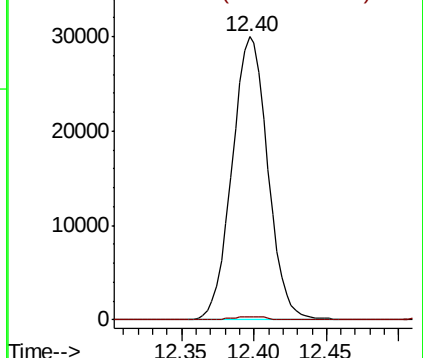
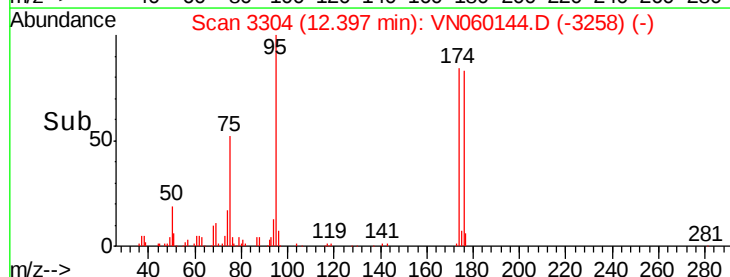
75 100

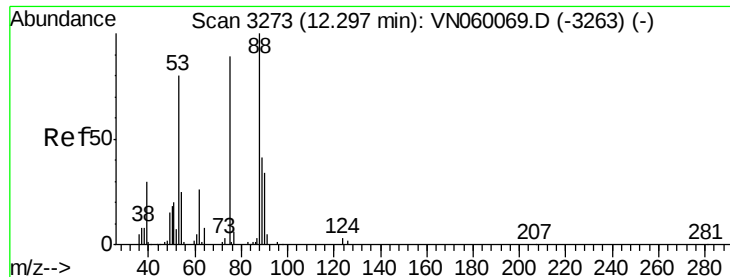
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

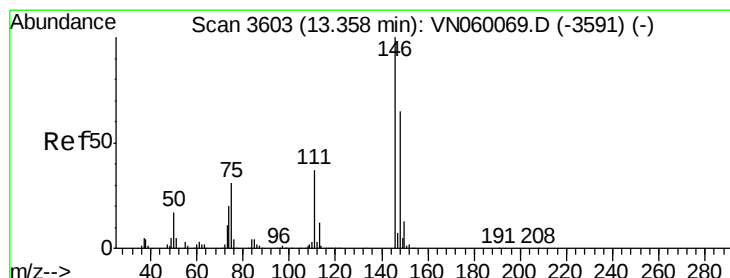
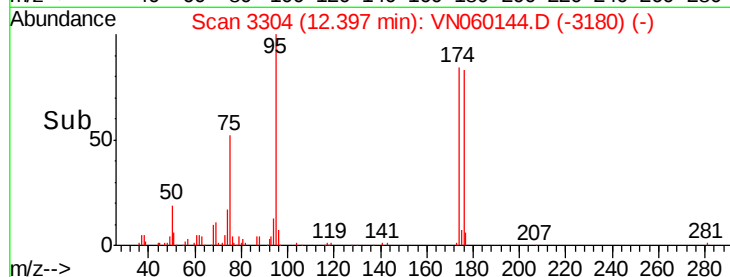
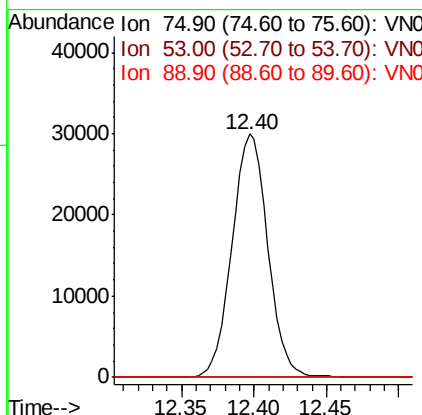
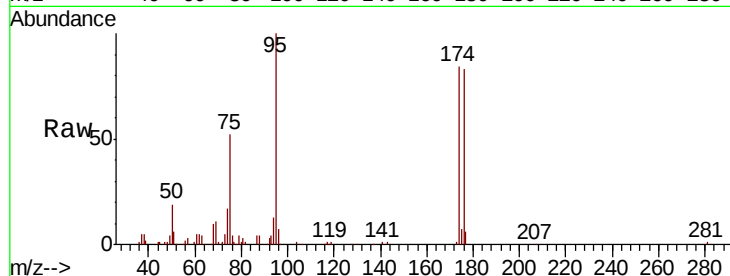




#81
trans-1,4-Dichloro-2-butene
Concen: 79.715 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN060144.D
Acq: 19 Feb 2020 10:24

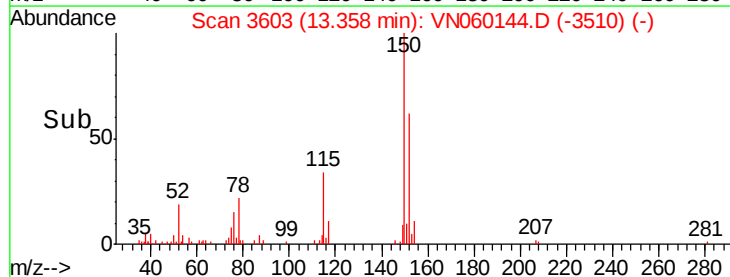
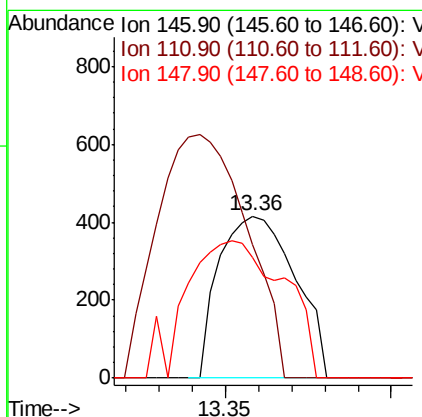
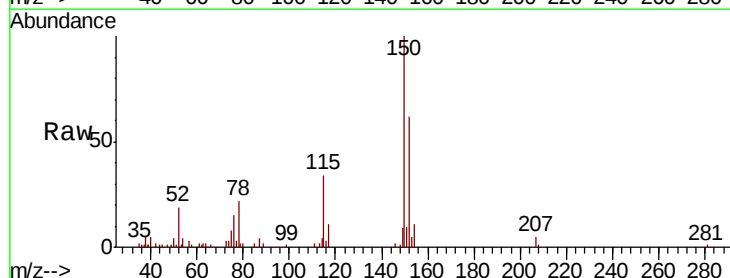
Instrument :
MSVOA_N
ClientSampleId :

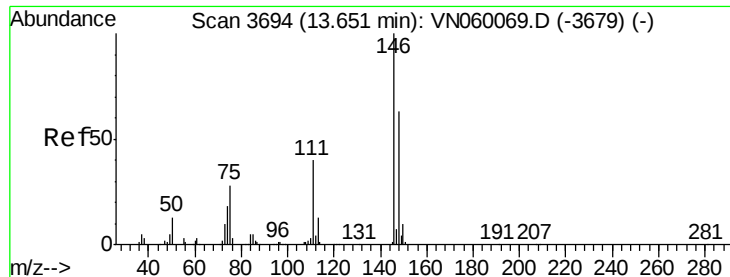
Tot Ion: 75 Resp: 51177
Ion Ratio Lower Upper
75 100
53 0.0 73.9 110.9#
89 0.0 37.0 55.4#



#88
1,4-Dichlorobenzene
Concen: 0.246 ug/l
RT: 13.36 min Scan# 3603
Delta R.T. 0.00 min
Lab File: VN060144.D
Acq: 19 Feb 2020 10:24

Tgt Ion: 146 Resp: 664
Ion Ratio Lower Upper
146 100
111 177.1 18.9 56.5#
148 108.9 32.0 96.0#





#91

1,2-Dichlorobenzene

Concen: 0.223 ug/l

RT: 13.66 min Scan# 3696

Delta R.T. 0.01 min

Lab File: VN060144.D

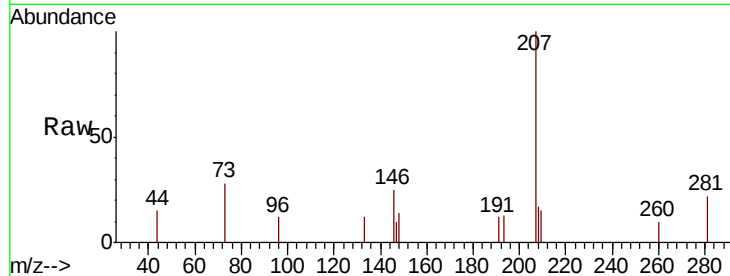
Acq: 19 Feb 2020 10:24

Instrument :

MSVOA_N

ClientSampled :

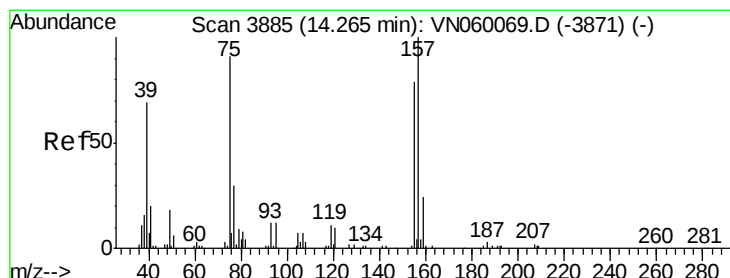
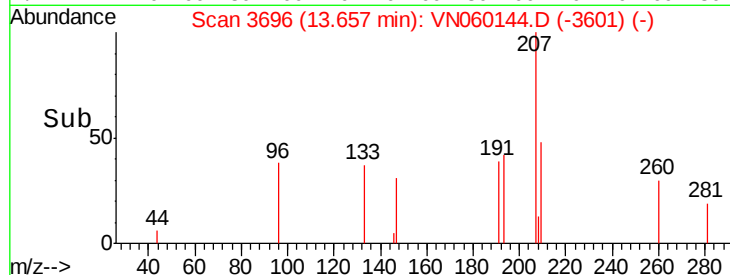
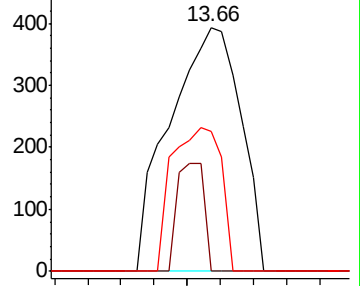
Tot Ion:	146	Resp:	587
Ion	Ratio	Lower	Upper
146	100		
111	16.5	20.1	60.2#
148	40.7	31.9	95.5



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.390 ug/l

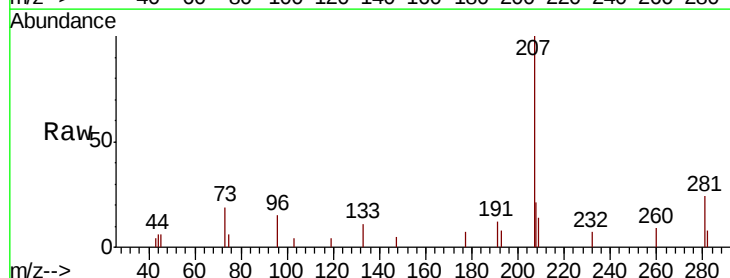
RT: 14.27 min Scan# 3888

Delta R.T. 0.01 min

Lab File: VN060144.D

Acq: 19 Feb 2020 10:24

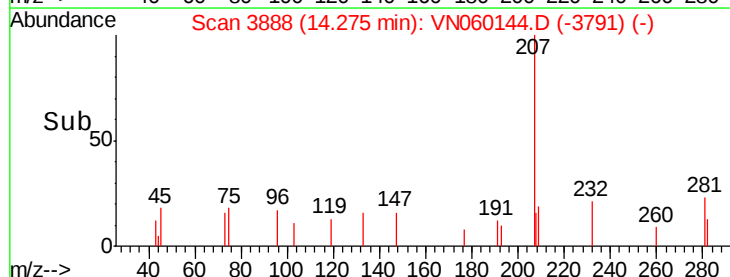
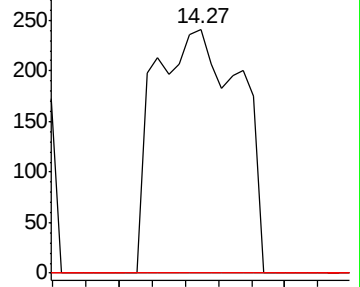
Tgt Ion:	75	Resp:	434
Ion	Ratio	Lower	Upper
75	100		
155	0.0	43.0	129.0#
157	0.0	54.9	164.5#

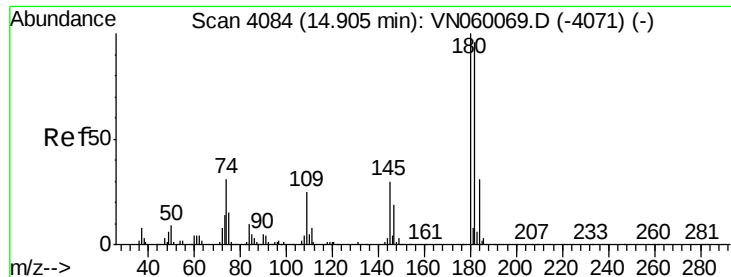


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

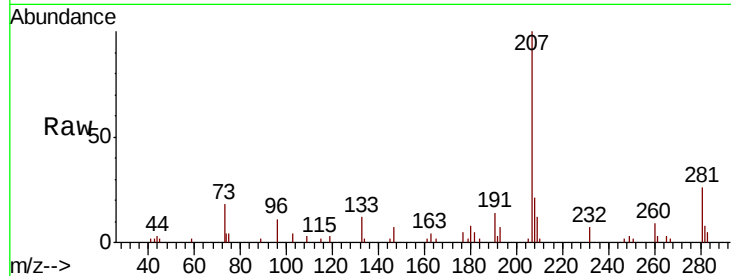




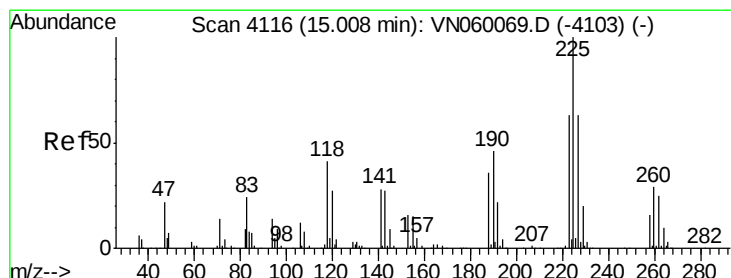
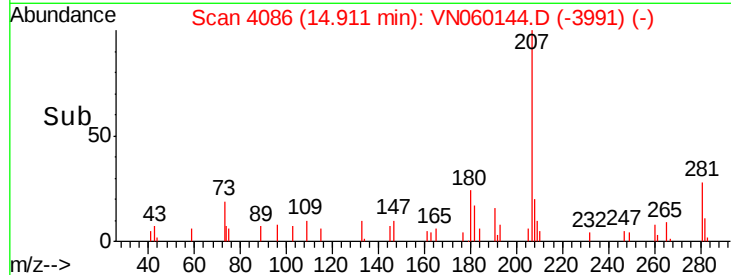
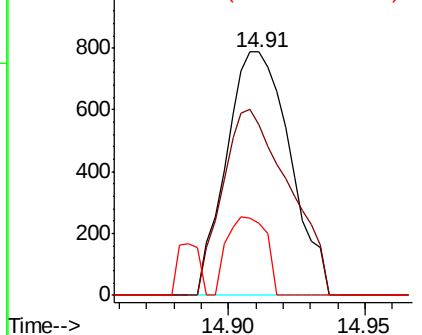
#93
 1,2,4-Trichlorobenzene
 Concen: 0.823 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.01 min
 Lab File: VN060144.D
 Acq: 19 Feb 2020 10:24

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 1276
 Ion Ratio Lower Upper
 180 100
 182 80.0 47.9 143.8
 145 20.0 15.2 45.5

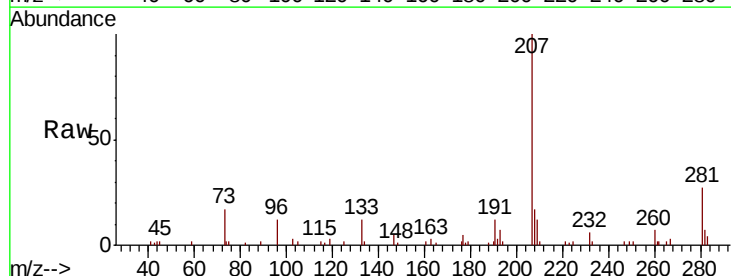


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

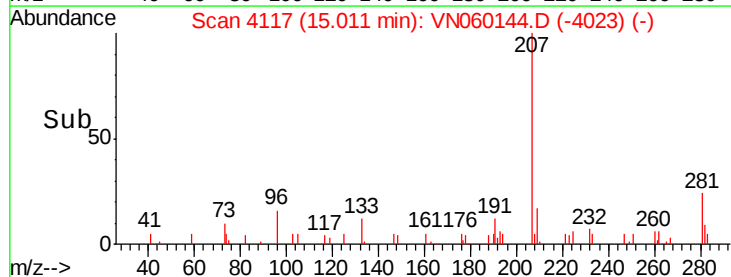
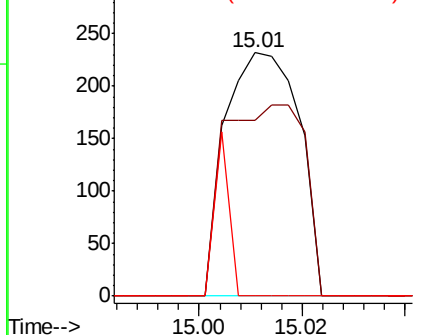


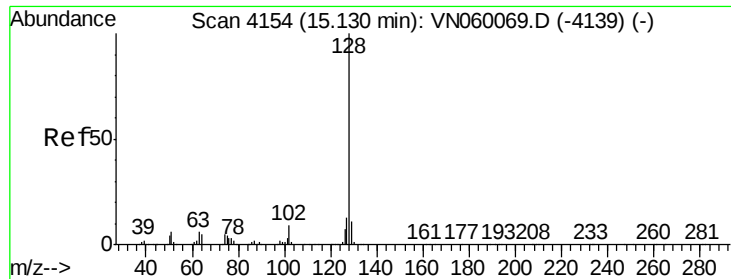
#94
 Hexachlorobutadiene
 Concen: 0.252 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN060144.D
 Acq: 19 Feb 2020 10:24

Tgt Ion:225 Resp: 229
 Ion Ratio Lower Upper
 225 100
 223 86.0 31.5 94.5
 227 13.1 31.8 95.4#



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: 1.274 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN060144.D

Acq: 19 Feb 2020 10:24

Instrument :

MSVOA_N

ClientSampled :

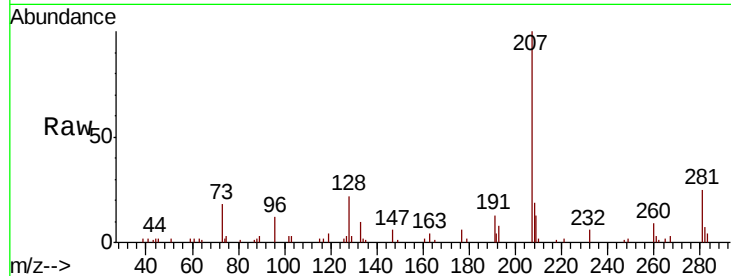
Tot Ion:128 Resp: 5333

Ion Ratio Lower Upper

128 100

127 11.4 10.3 15.5

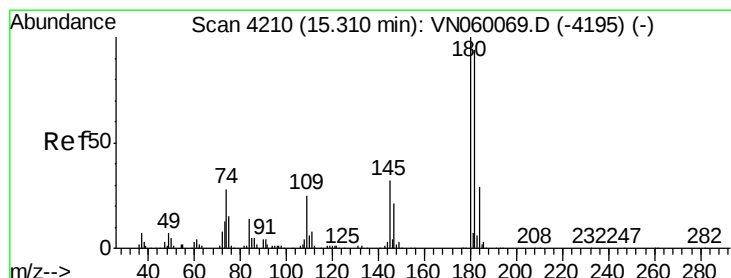
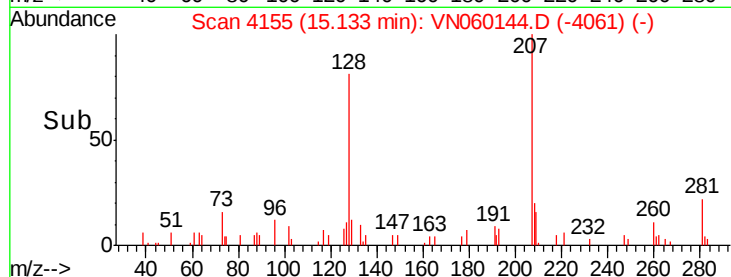
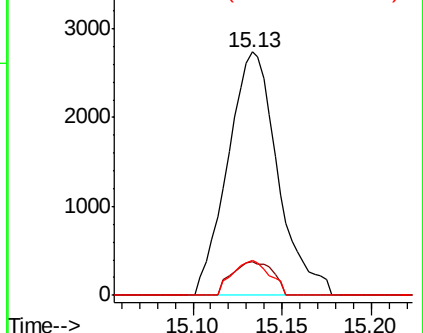
129 10.6 8.6 13.0



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: 1.286 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. 0.00 min

Lab File: VN060144.D

Acq: 19 Feb 2020 10:24

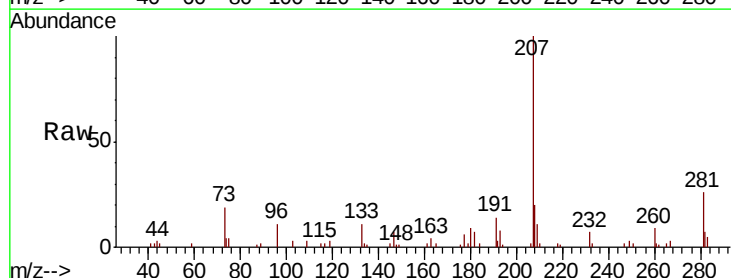
Tgt Ion:180 Resp: 1985

Ion Ratio Lower Upper

180 100

182 89.1 47.5 142.5

145 25.1 16.1 48.3



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

