

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN032620\
 Data File : VN060714.D
 Acq On : 26 Mar 2020 15:04
 Operator : JC/MD
 Sample : L1997-04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW203D1-20200315

Quant Time: Mar 27 05:32:40 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	193145	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	319746	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	293867	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	131994	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	125299	47.26	ug/l	0.00
Spiked Amount						
Recovery						
35) Dibromofluoromethane	7.57	113	95443	49.37	ug/l	0.00
Spiked Amount						
Recovery						
50) Toluene-d8	10.08	98	392403	49.69	ug/l	0.00
Spiked Amount						
Recovery						
62) 4-Bromofluorobenzene	12.40	95	145358	50.22	ug/l	0.00
Spiked Amount						
Recovery						

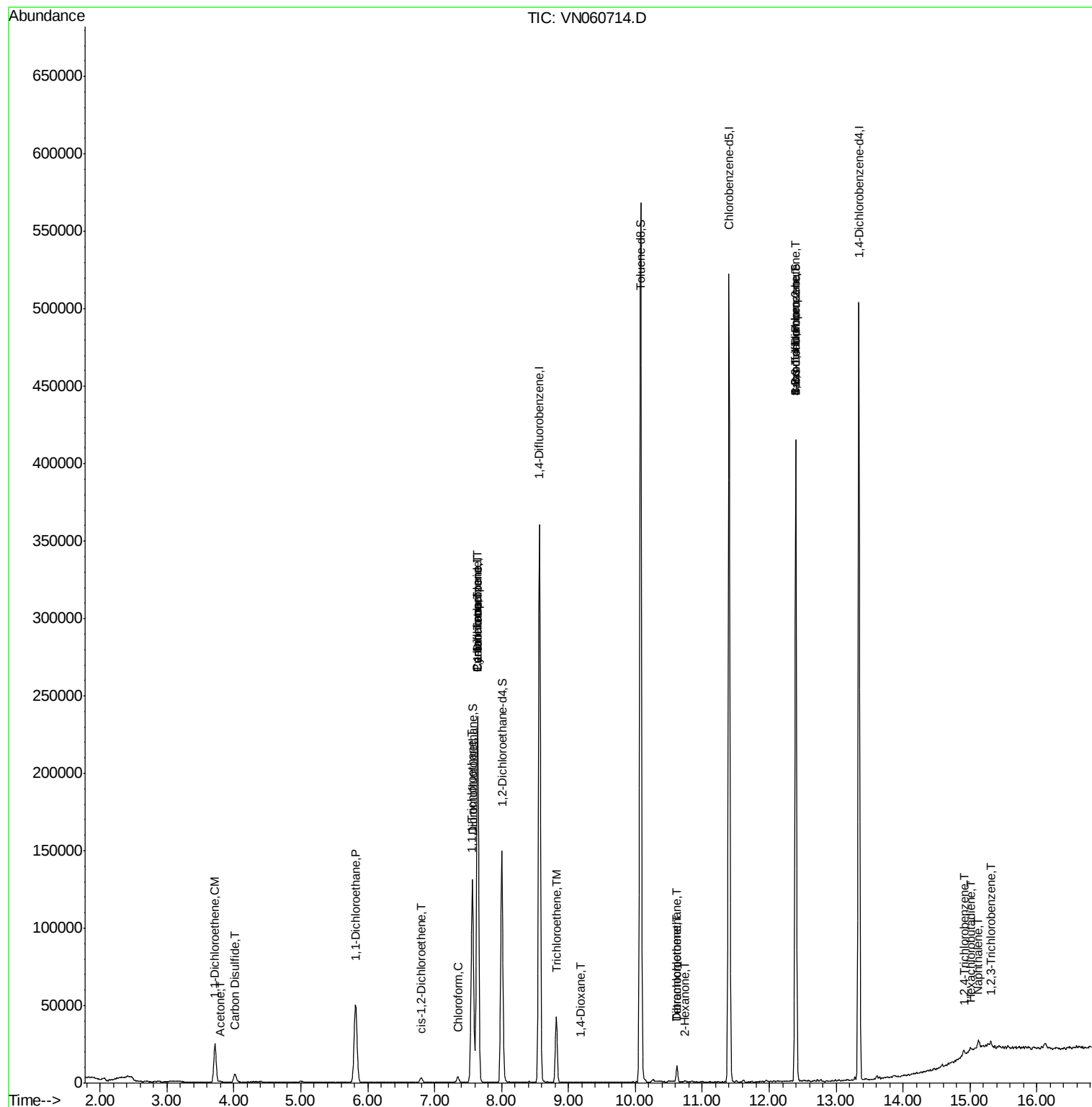
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) 1,1-Dichloroethene	3.72	96	13679	6.541	ug/l	99
16) Acetone	3.79	43	1654	1.761	ug/l	98
17) Carbon Disulfide	4.03	76	1667	0.262	ug/l #	75
24) 1,1-Dichloroethane	5.82	63	81600	19.264	ug/l	99
27) cis-1,2-Dichloroethene	6.80	96	2419	0.955	ug/l	74
30) Chloroform	7.35	83	4211	1.037	ug/l	96
31) Cyclohexane	7.64	56	4270	1.000	ug/l #	3
32) 1,1,1-Trichloroethane	7.55	97	11091	3.168	ug/l	98
36) 1,1-Dichloropropene	7.64	75	14888	4.809	ug/l #	50
38) Carbon Tetrachloride	7.64	117	18282	6.588	ug/l #	16
44) Trichloroethene	8.82	130	15420	6.545	ug/l	92
49) 1,4-Dioxane	9.19	88	30	1.027	ug/l #	20
59) 2-Hexanone	10.74	43	985	0.436	ug/l #	40
60) Dibromochloromethane	10.62	129	2526	1.126	ug/l #	11
64) Tetrachloroethene	10.62	164	2542	1.099	ug/l	93
71) Bromoform	12.40	173	771	2.105	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	72742	25.540	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	72742	65.594	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.48	75	30	Below Cal	#	3
93) 1,2,4-Trichlorobenzene	14.90	180	1089	0.441	ug/l	86
94) Hexachlorobutadiene	15.01	225	408	0.337	ug/l	81
95) Naphthalene	15.13	128	4020	0.541	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.31	180	1200	0.493	ug/l	94

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060714.D

Acq: 26 Mar 2020 15:04

Instrument :

MSVOA_N

ClientSampleId :

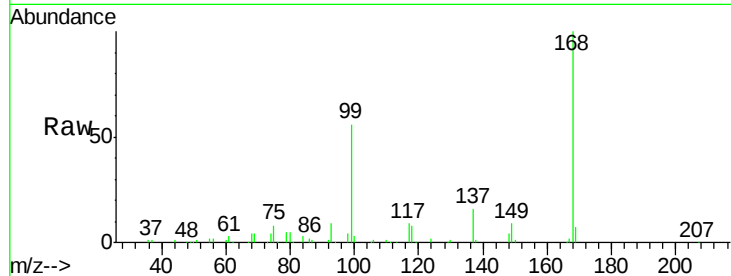
MW203D1-20200315

Tgt Ion:168 Resp: 193145

Ion Ratio Lower Upper

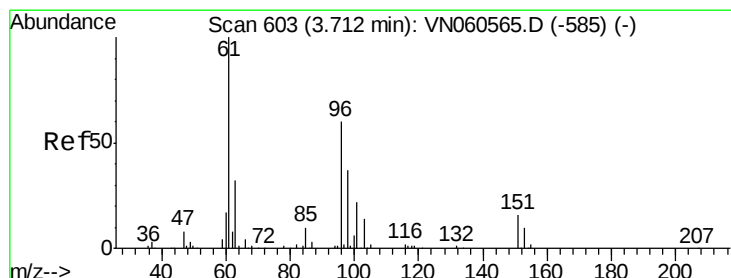
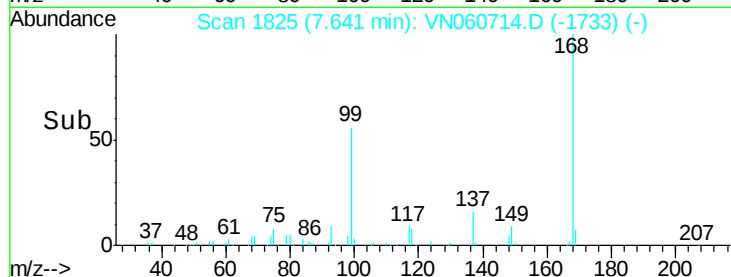
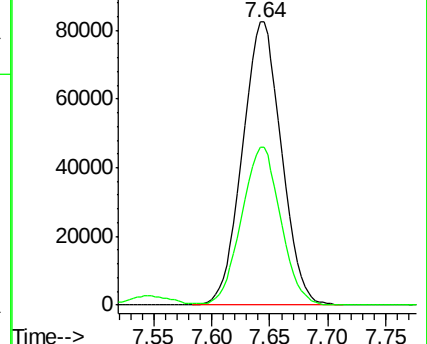
168 100

99 55.8 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#12

1,1-Dichloroethene

Concen: 6.541 ug/l

RT: 3.72 min Scan# 605

Delta R.T. 0.01 min

Lab File: VN060714.D

Acq: 26 Mar 2020 15:04

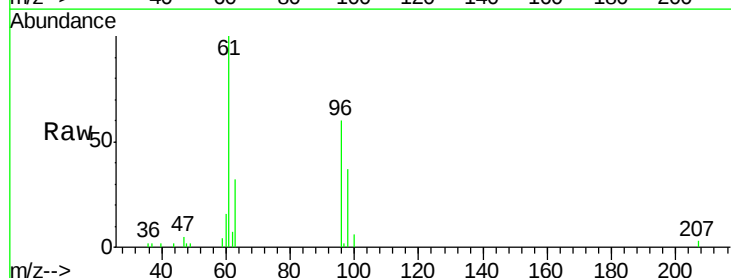
Tgt Ion: 96 Resp: 13679

Ion Ratio Lower Upper

96 100

61 166.1 134.1 201.1

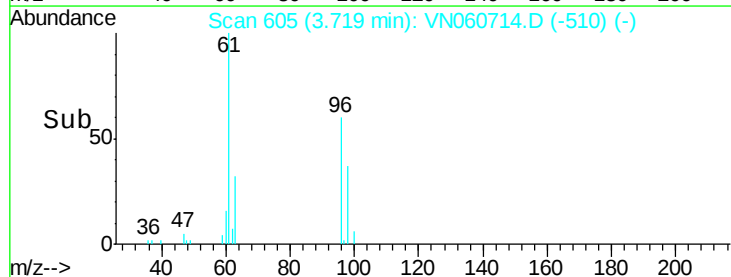
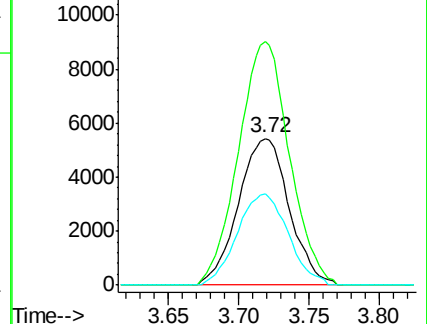
98 61.9 49.9 74.9

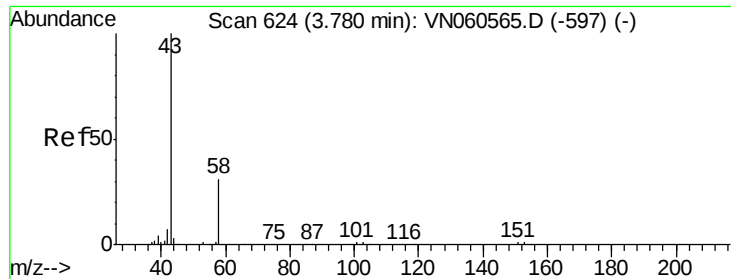


Abundance Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO

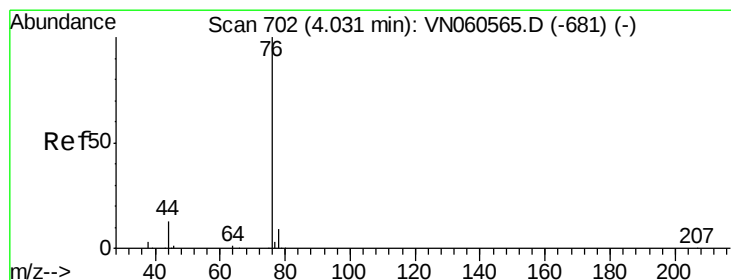
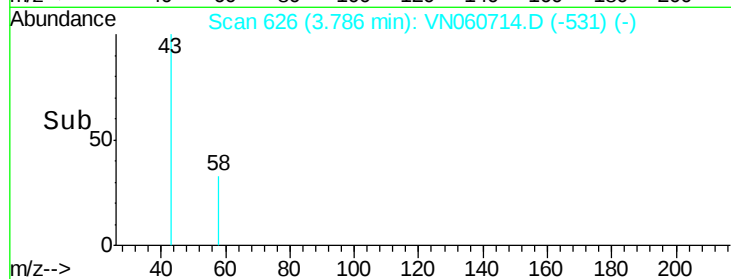
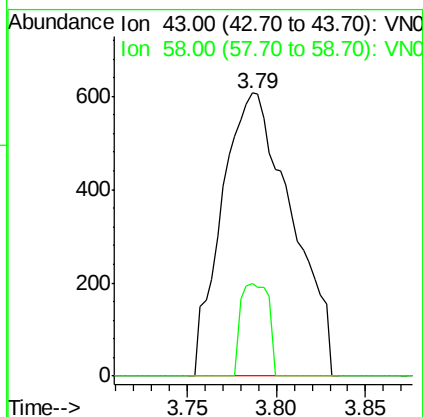
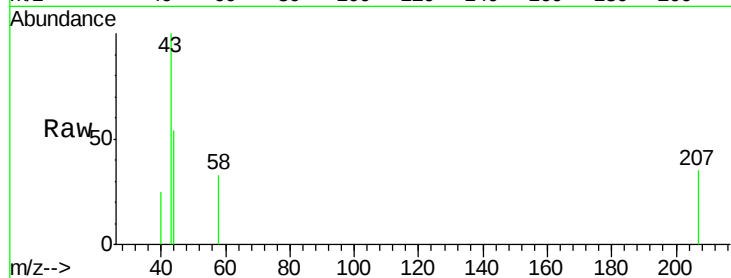




#16
Acetone
Concen: 1.761 ug/l
RT: 3.79 min Scan# 626
Delta R.T. 0.01 min
Lab File: VN060714.D
Acq: 26 Mar 2020 15:04

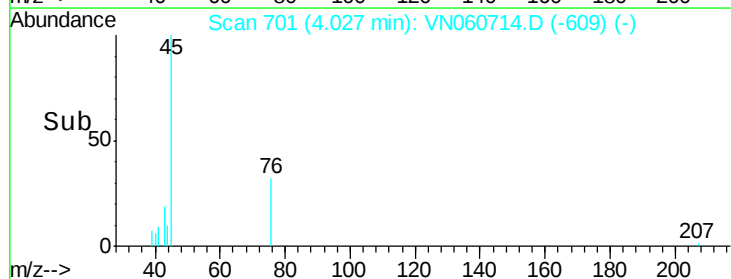
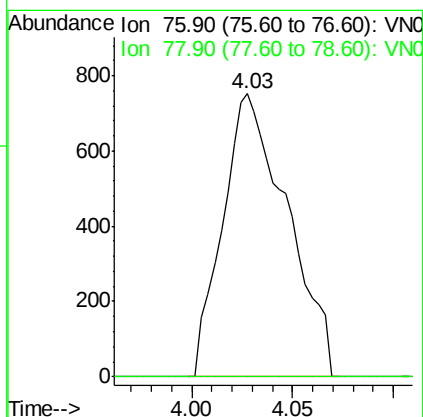
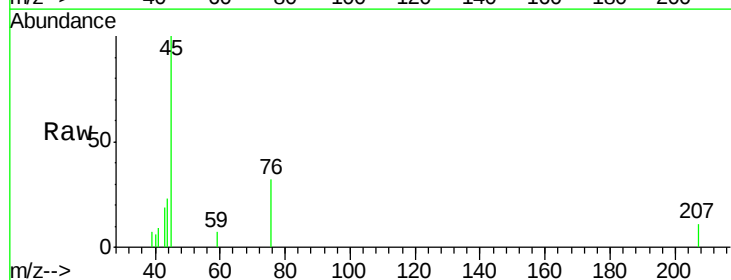
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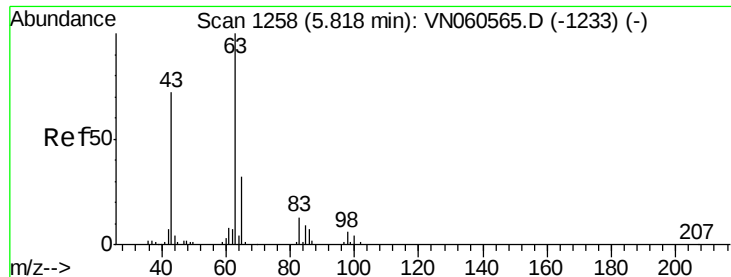
Tgt Ion: 43 Resp: 1654
Ion Ratio Lower Upper
43 100
58 32.6 25.1 37.7



#17
Carbon Disulfide
Concen: 0.262 ug/l
RT: 4.03 min Scan# 701
Delta R.T. -0.00 min
Lab File: VN060714.D
Acq: 26 Mar 2020 15:04

Tgt Ion: 76 Resp: 1667
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#





#24

1,1-Dichloroethane

Concen: 19.264 ug/l

RT: 5.82 min Scan# 1259

Delta R.T. 0.00 min

Lab File: VN060714.D

Acq: 26 Mar 2020 15:04

Instrument :

MSVOA_N

ClientSampleId :

MW203D1-20200315

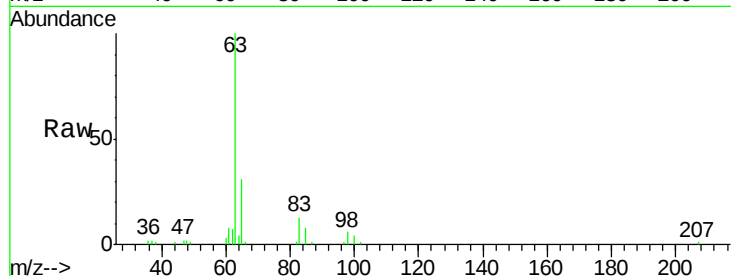
Tgt Ion: 63 Resp: 81600

Ion Ratio Lower Upper

63 100

98 6.0 2.9 8.7

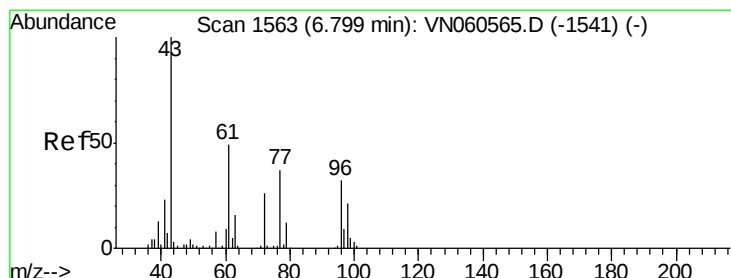
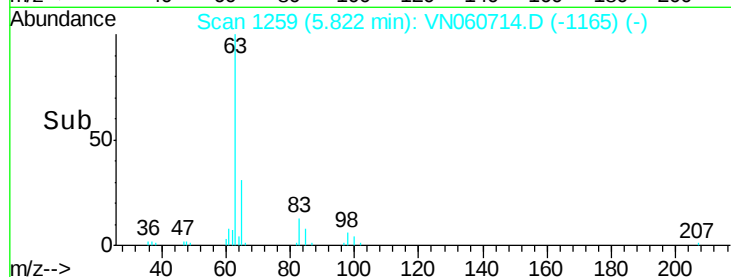
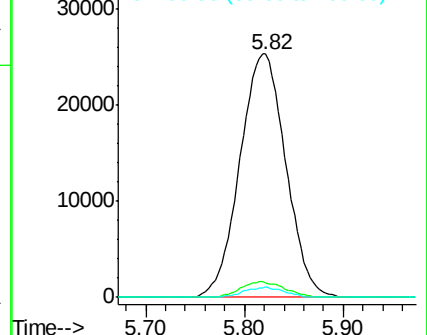
100 4.2 1.8 5.5



Abundance Ion 62.90 (62.60 to 63.60): VN060714.D (-1165) (-)

Ion 97.90 (97.60 to 98.60): VN060714.D (-1165) (-)

Ion 99.90 (99.60 to 100.60): VN060714.D (-1165) (-)



#27

cis-1,2-Dichloroethene

Concen: 0.955 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VN060714.D

Acq: 26 Mar 2020 15:04

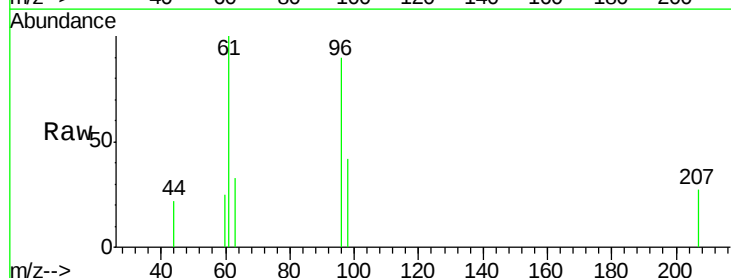
Tgt Ion: 96 Resp: 2419

Ion Ratio Lower Upper

96 100

61 125.0 0.0 305.6

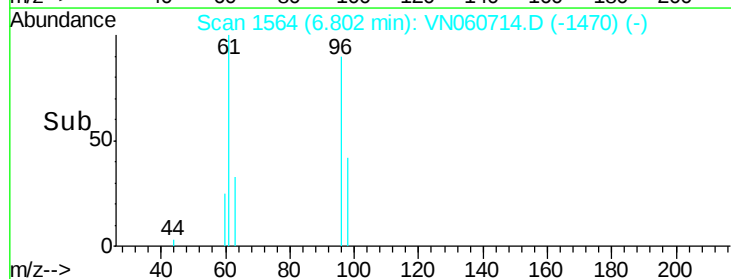
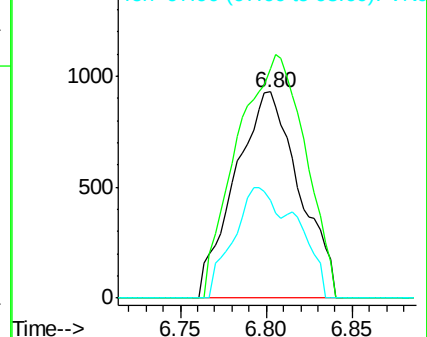
98 36.4 0.0 127.6

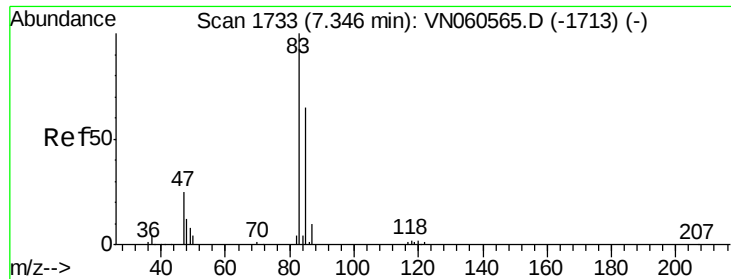


Abundance Ion 95.90 (95.60 to 96.60): VN060714.D (-1470) (-)

Ion 60.90 (60.60 to 61.60): VN060714.D (-1470) (-)

Ion 97.90 (97.60 to 98.60): VN060714.D (-1470) (-)

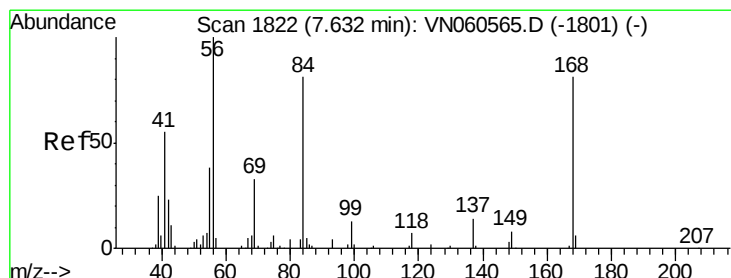
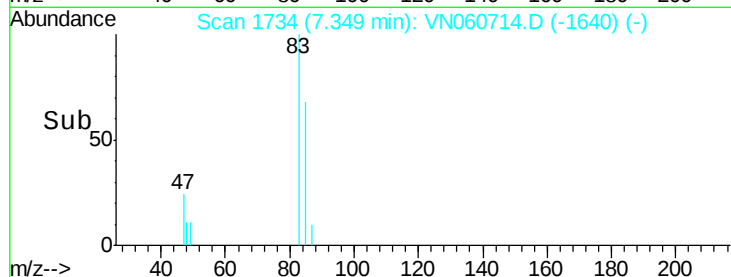
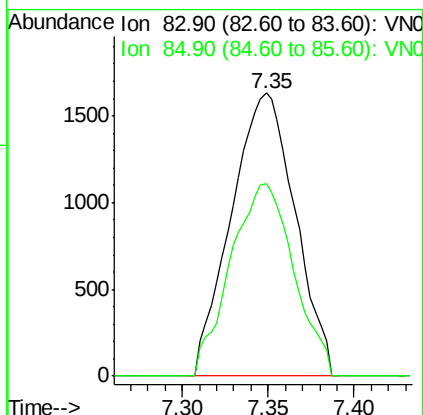
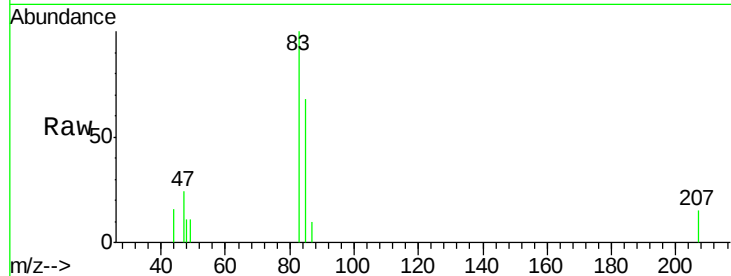




#30
Chloroform
Concen: 1.037 ug/l
RT: 7.35 min Scan# 1734
Delta R.T. 0.00 min
Lab File: VN060714.D
Acq: 26 Mar 2020 15:04

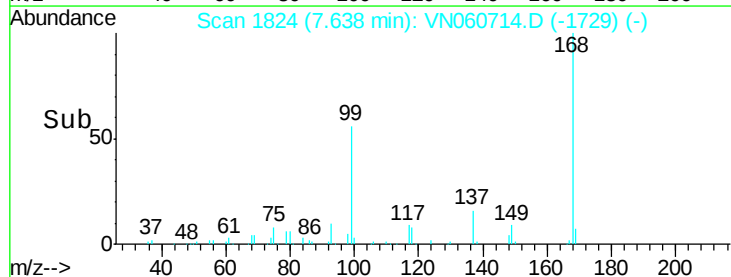
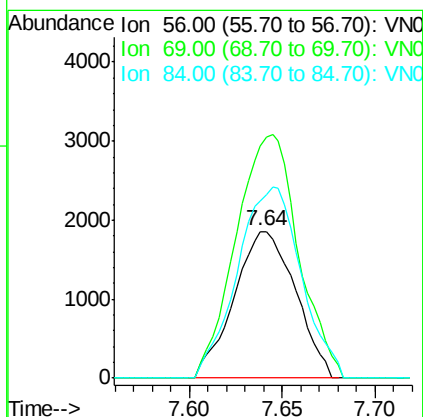
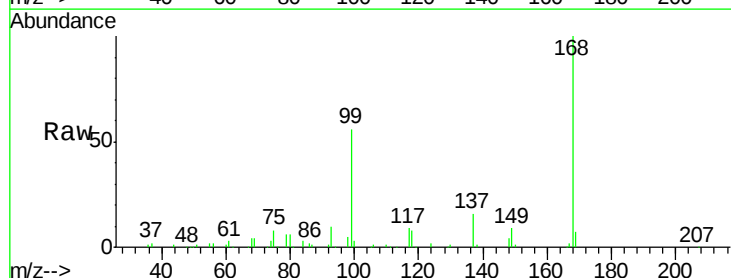
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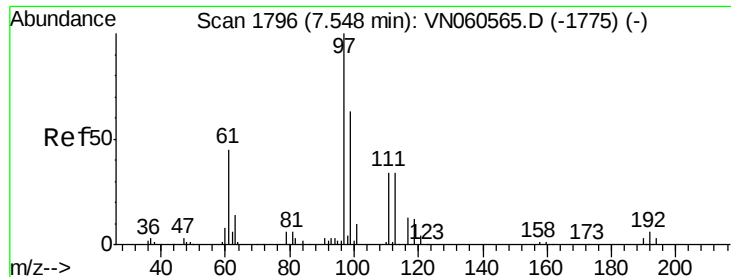
Tgt Ion: 83 Resp: 4211
Ion Ratio Lower Upper
83 100
85 67.9 51.8 77.8



#31
Cyclohexane
Concen: 1.000 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN060714.D
Acq: 26 Mar 2020 15:04

Tgt Ion: 56 Resp: 4270
Ion Ratio Lower Upper
56 100
69 158.5 26.6 40.0#
84 121.0 64.3 96.5#





#32

1,1,1-Trichloroethane

Concen: 3.168 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN060714.D

Acq: 26 Mar 2020 15:04

Instrument :

MSVOA_N

ClientSampleId :

MW203D1-20200315

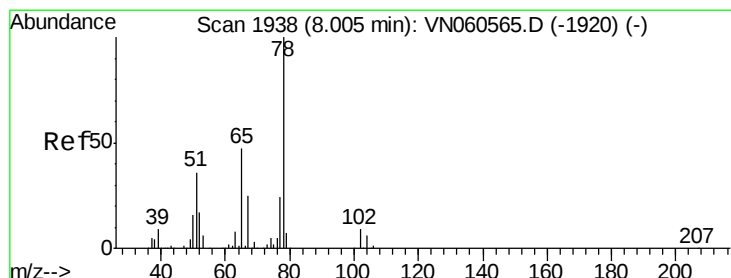
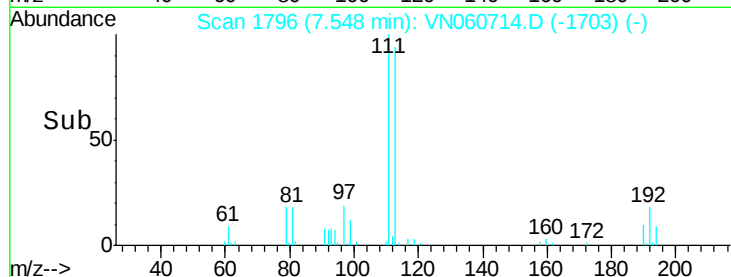
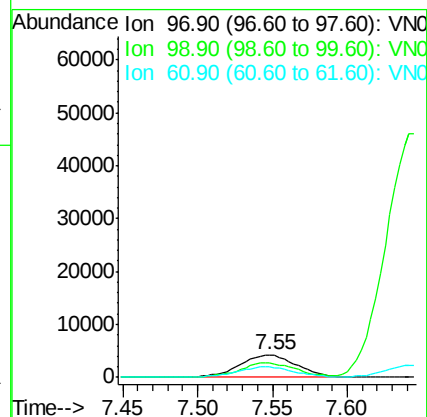
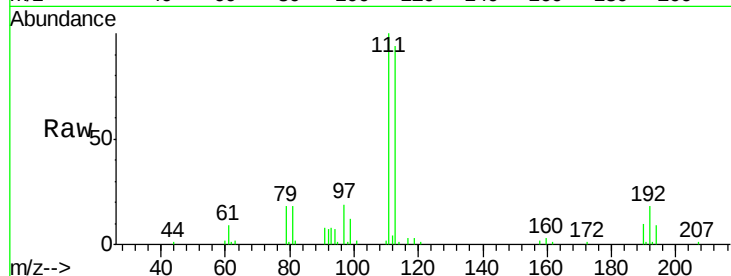
Tgt Ion: 97 Resp: 11091

Ion Ratio Lower Upper

97 100

99 64.6 50.6 75.8

61 47.2 36.2 54.4



#33

1,2-Dichloroethane-d4

Concen: 47.257 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060714.D

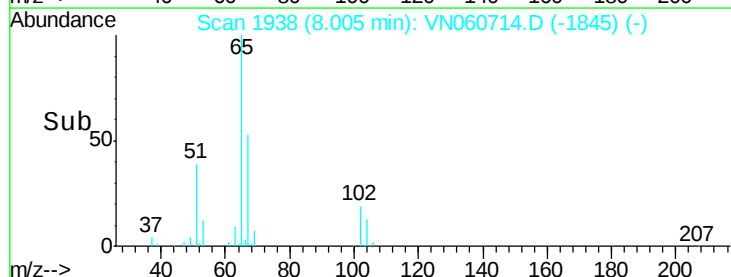
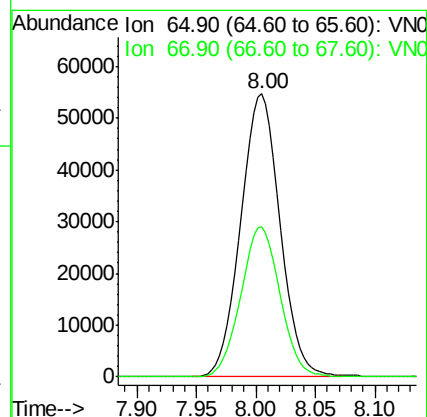
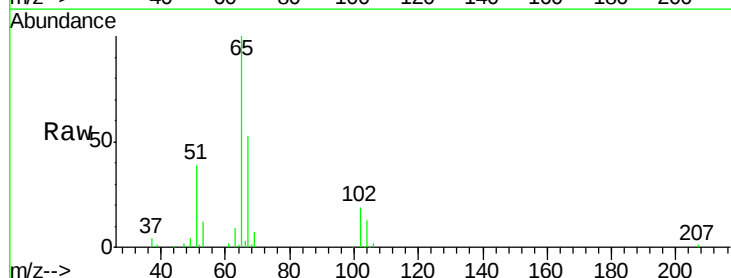
Acq: 26 Mar 2020 15:04

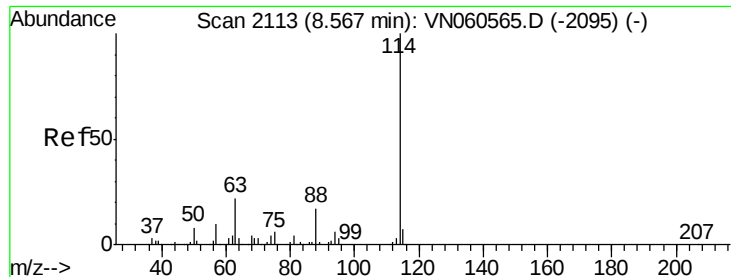
Tgt Ion: 65 Resp: 125299

Ion Ratio Lower Upper

65 100

67 53.0 0.0 107.6

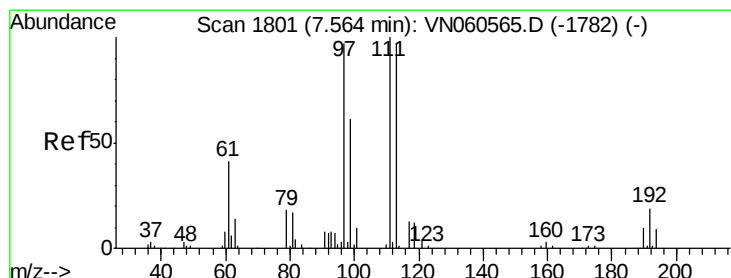
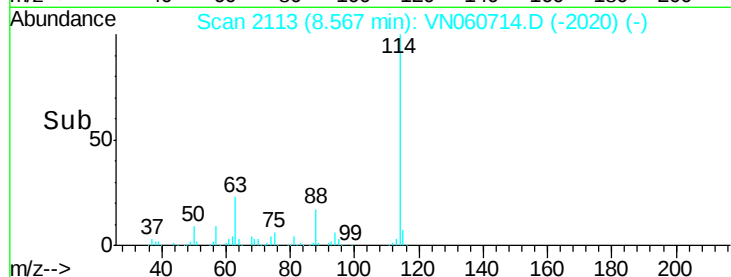
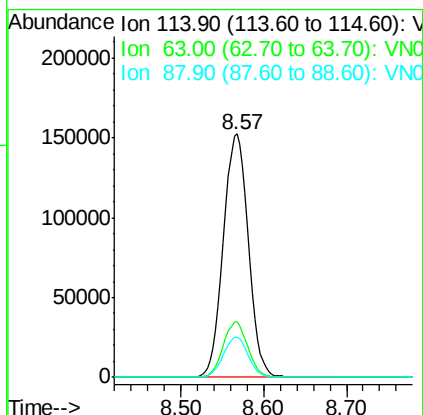
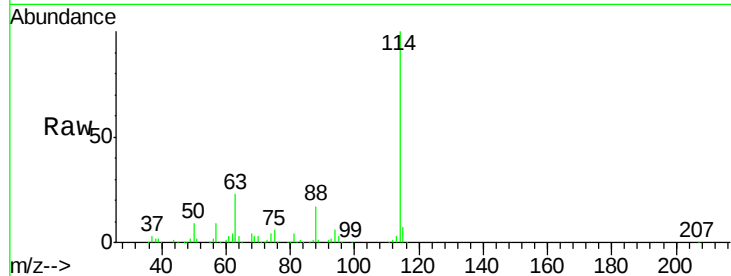




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060714.D
 Acq: 26 Mar 2020 15:04

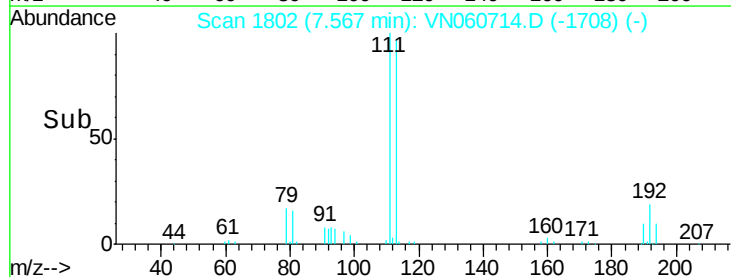
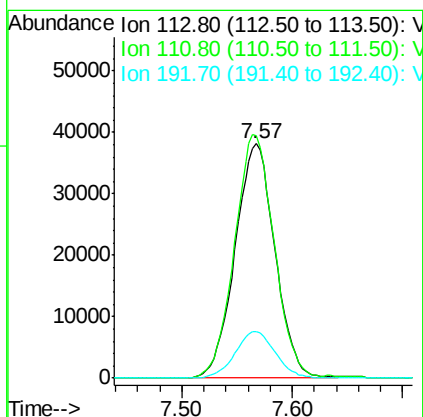
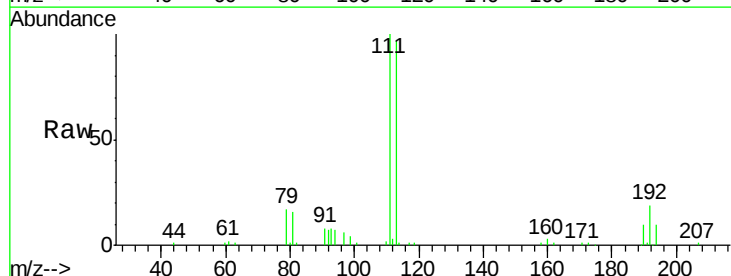
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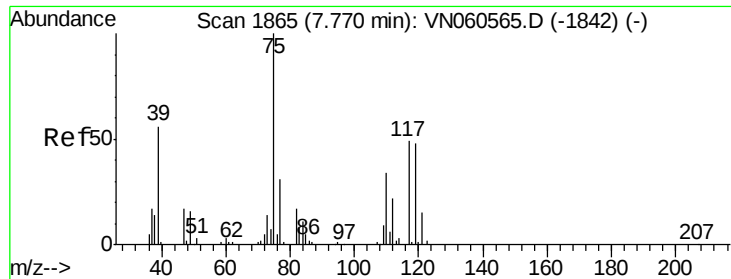
Tgt Ion	Ratio	Lower	Upper
114	100		
63	22.7	0.0	43.8
88	16.6	0.0	33.0



#35
 Dibromofluoromethane
 Concen: 49.365 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060714.D
 Acq: 26 Mar 2020 15:04

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.9	124.3
192	19.9	15.8	23.8

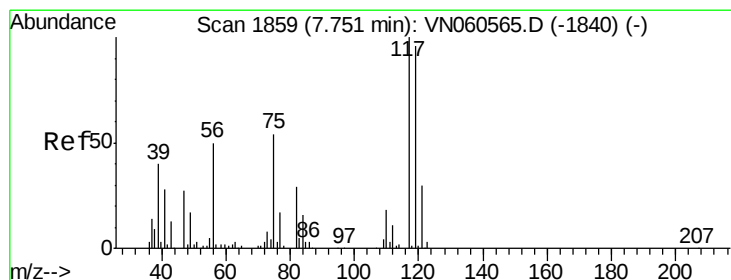
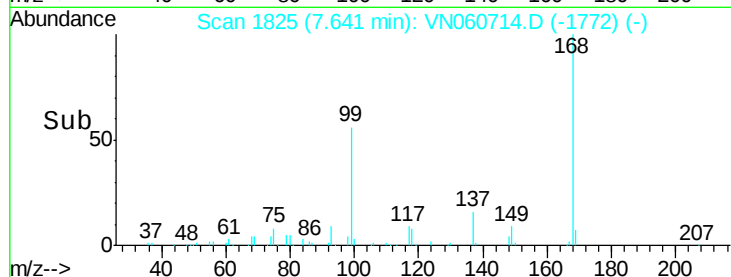
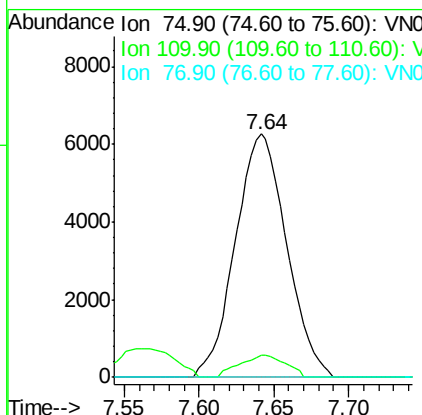
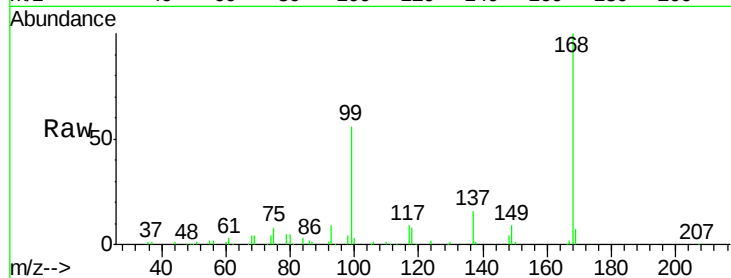




#36
 1,1-Dichloropropene
 Concen: 4.809 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060714.D
 Acq: 26 Mar 2020 15:04

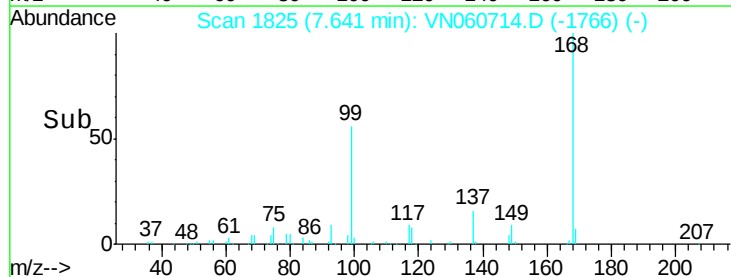
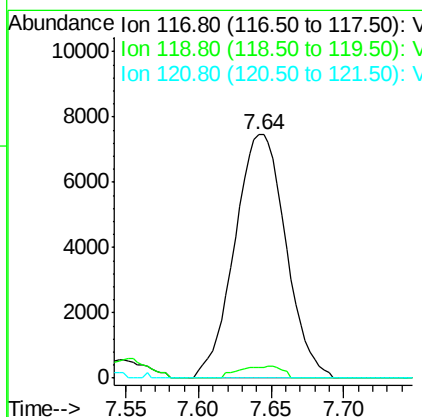
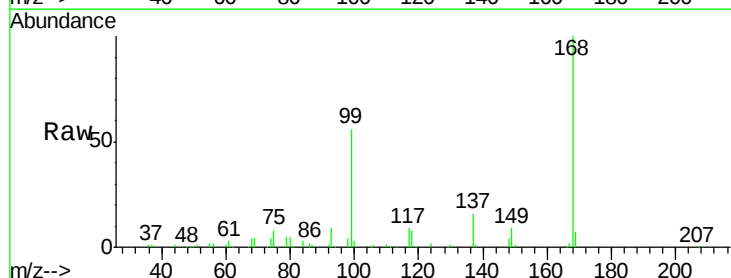
Instrument :
 MSVOA_N
 ClientSampleId :
 MW203D1-20200315

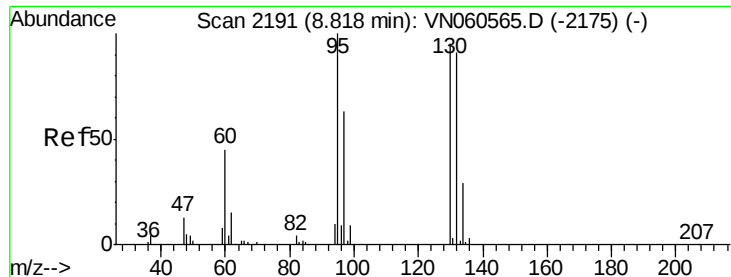
Tgt Ion: 75 Resp: 14888
 Ion Ratio Lower Upper
 75 100
 110 8.2 16.9 50.6#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 6.588 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN060714.D
 Acq: 26 Mar 2020 15:04

Tgt Ion: 117 Resp: 18282
 Ion Ratio Lower Upper
 117 100
 119 4.3 76.2 114.2#
 121 0.0 23.7 35.5#

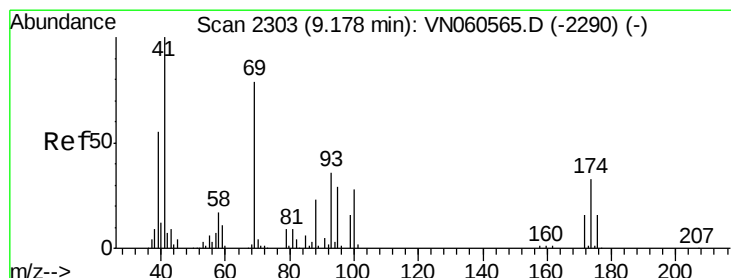
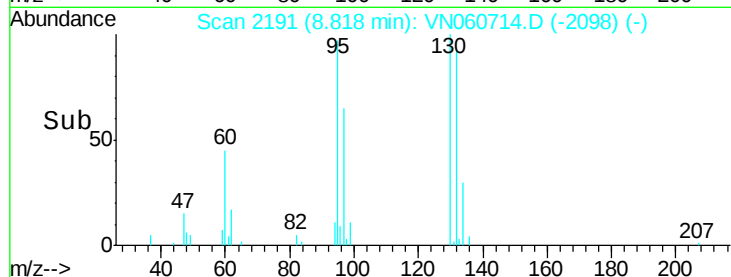
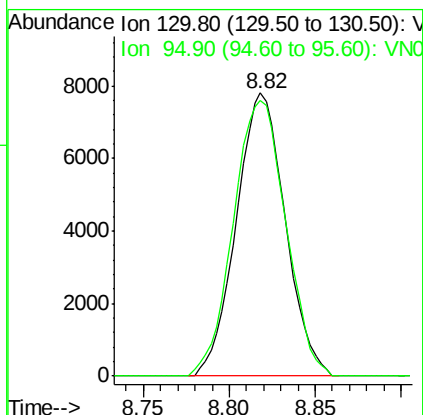
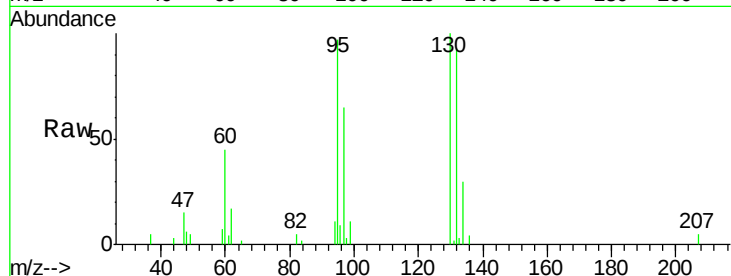




#44
 Trichloroethene
 Concen: 6.545 ug/l
 RT: 8.82 min Scan# 2191
 Delta R.T. 0.00 min
 Lab File: VN060714.D
 Acq: 26 Mar 2020 15:04

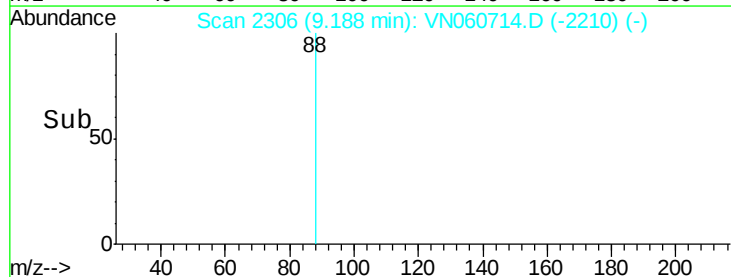
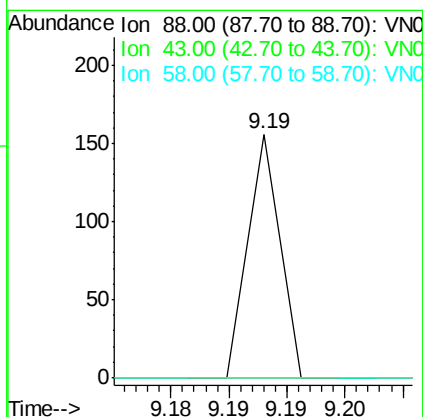
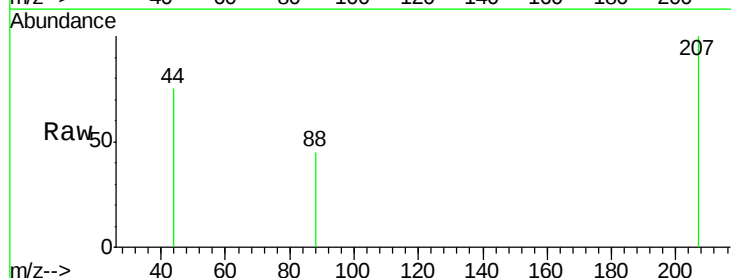
Instrument :
 MSVOA_N
 ClientSampleId :
 MW203D1-20200315

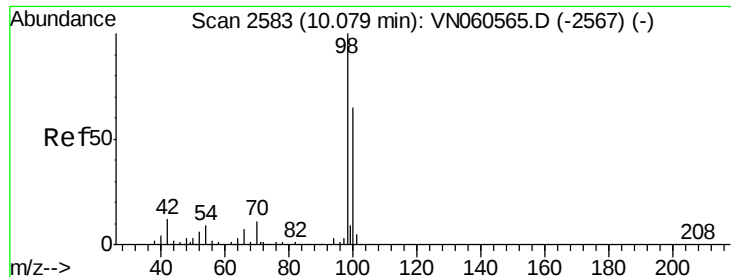
Tgt Ion:130 Resp: 15420
 Ion Ratio Lower Upper
 130 100
 95 97.4 0.0 211.2



#49
 1,4-Dioxane
 Concen: 1.027 ug/l
 RT: 9.19 min Scan# 2306
 Delta R.T. 0.01 min
 Lab File: VN060714.D
 Acq: 26 Mar 2020 15:04

Tgt Ion: 88 Resp: 30
 Ion Ratio Lower Upper
 88 100
 43 0.0 30.8 46.2#
 58 0.0 59.8 89.8#





#50

Toluene-d8

Concen: 49.689 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060714.D

Acq: 26 Mar 2020 15:04

Instrument :

MSVOA_N

ClientSampleId :

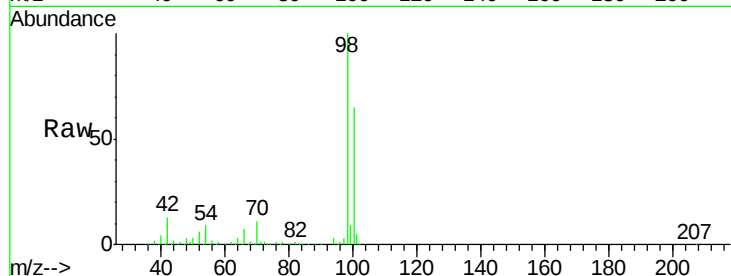
MW203D1-20200315

Tgt Ion: 98 Resp: 392403

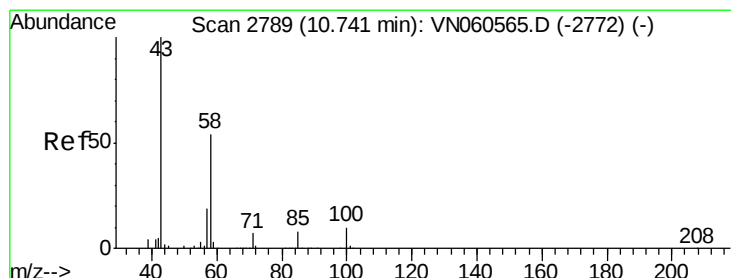
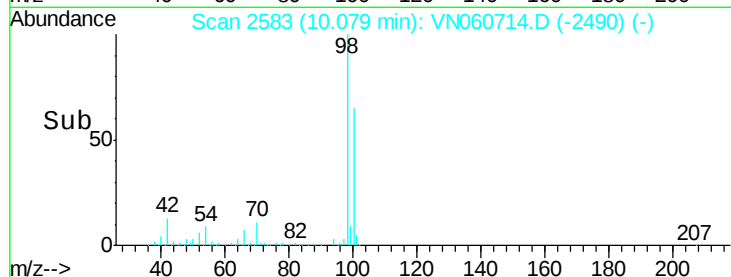
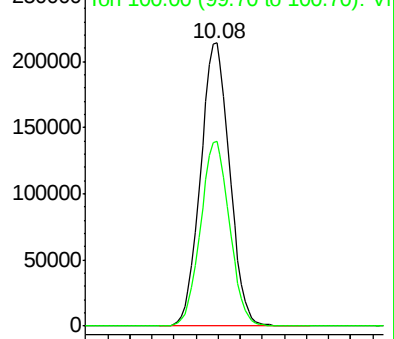
Ion Ratio Lower Upper

98 100

100 64.8 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN060714.D (-2490) (-)



#59

2-Hexanone

Concen: 0.436 ug/l

RT: 10.74 min Scan# 2789

Delta R.T. 0.00 min

Lab File: VN060714.D

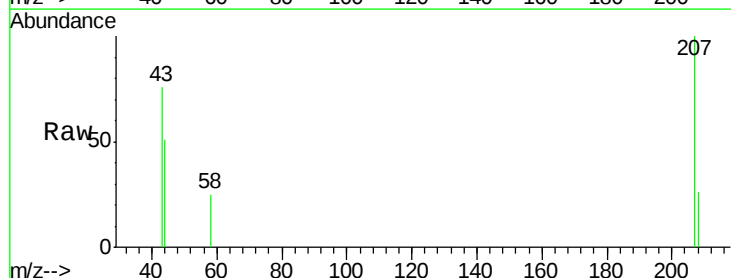
Acq: 26 Mar 2020 15:04

Tgt Ion: 43 Resp: 985

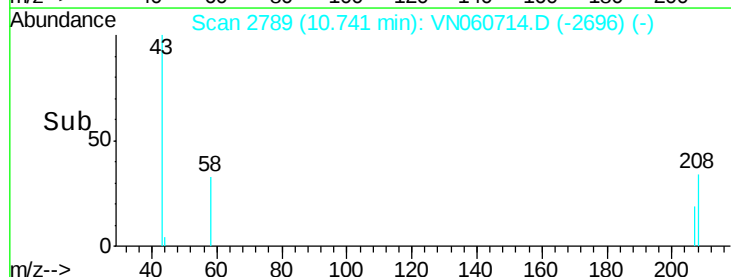
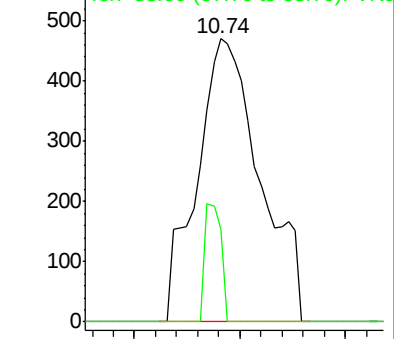
Ion Ratio Lower Upper

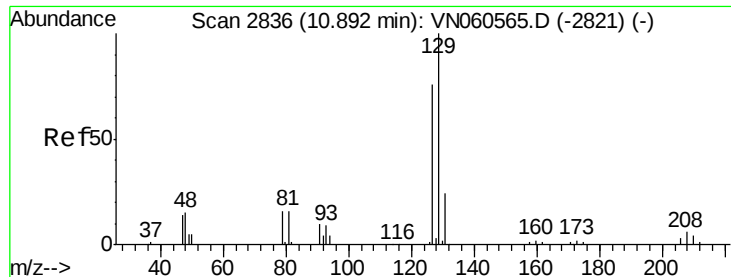
43 100

58 10.7 26.7 80.1#



Abundance Ion 43.00 (42.70 to 43.70): VN060714.D (-2696) (-)





#60

Dibromochloromethane

Concen: 1.126 ug/l

RT: 10.62 min Scan# 2752

Delta R.T. -0.27 min

Lab File: VN060714.D

Acq: 26 Mar 2020 15:04

Instrument :

MSVOA_N

ClientSampleId :

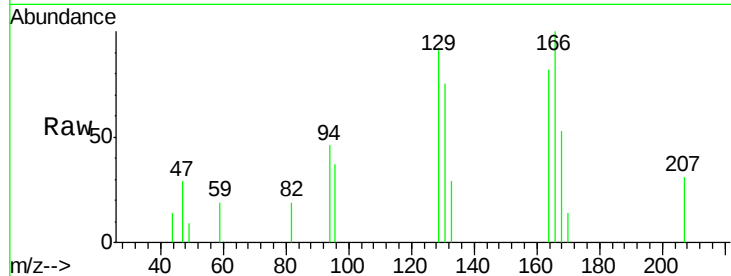
MW203D1-20200315

Tgt Ion:129 Resp: 2526

Ion Ratio Lower Upper

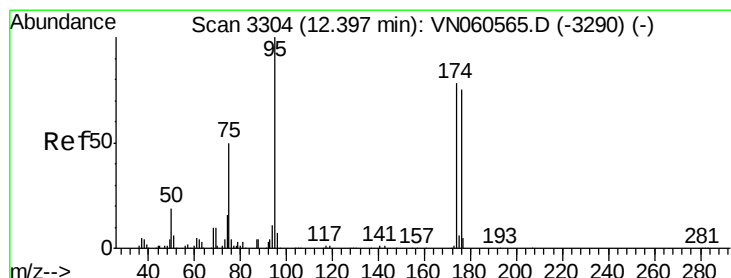
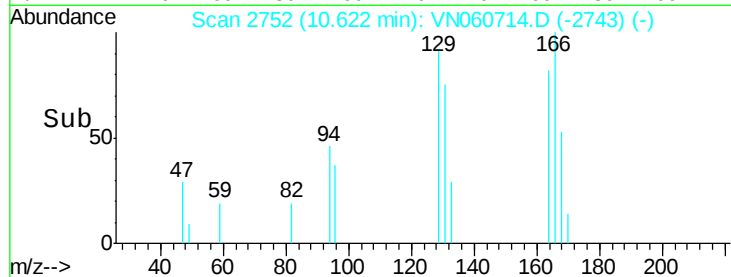
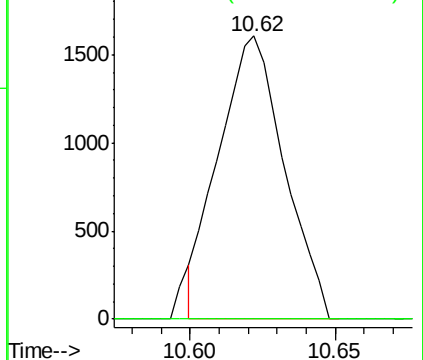
129 100

127 0.0 38.5 115.5#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 50.224 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060714.D

Acq: 26 Mar 2020 15:04

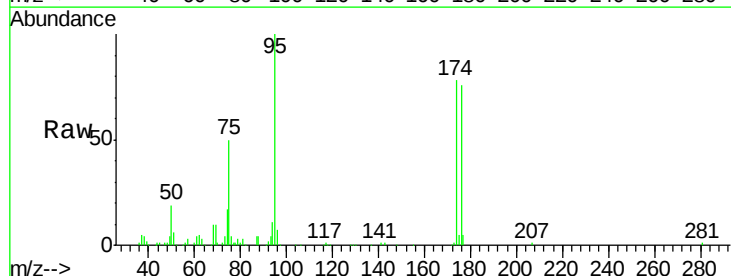
Tgt Ion: 95 Resp: 145358

Ion Ratio Lower Upper

95 100

174 77.9 0.0 157.6

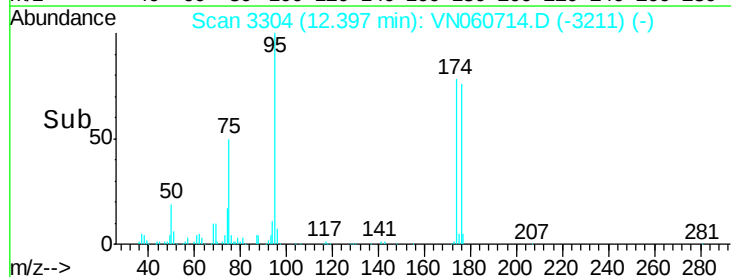
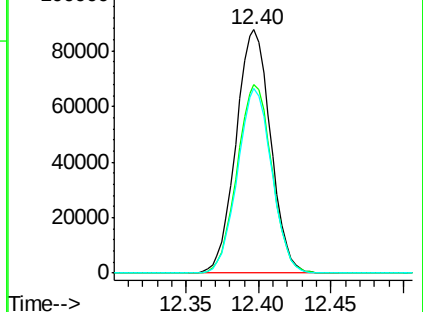
176 75.0 0.0 150.6

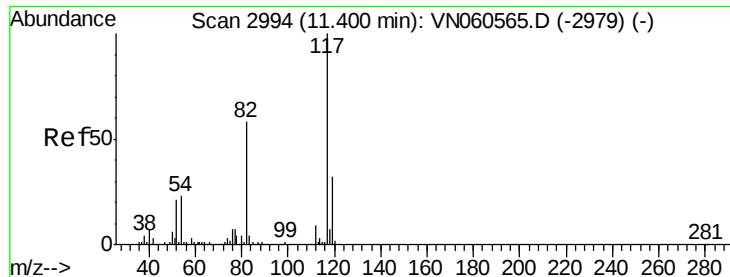


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

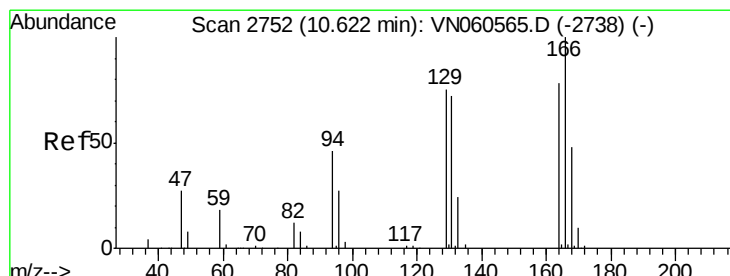
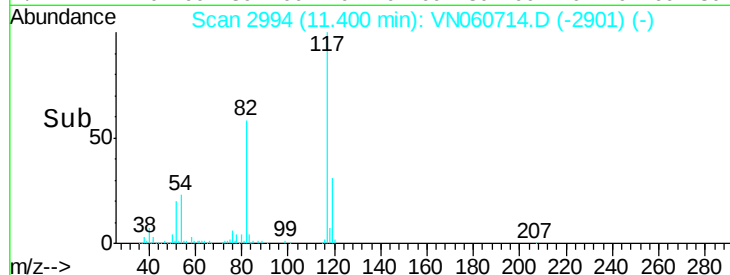
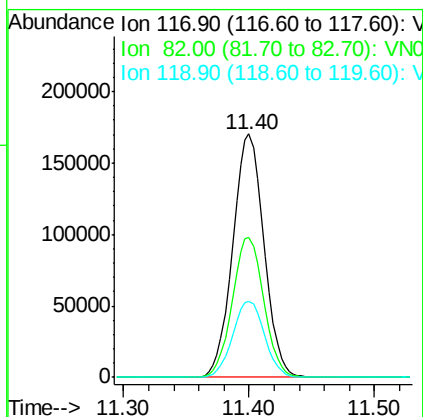
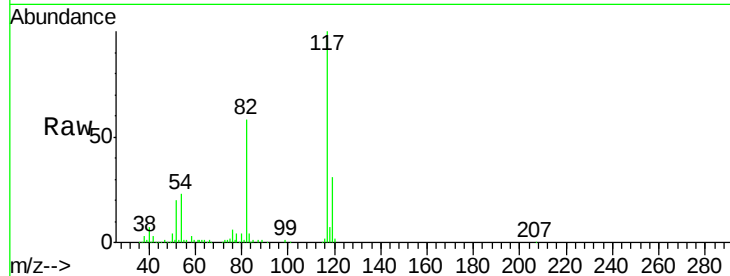




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060714.D
Acq: 26 Mar 2020 15:04

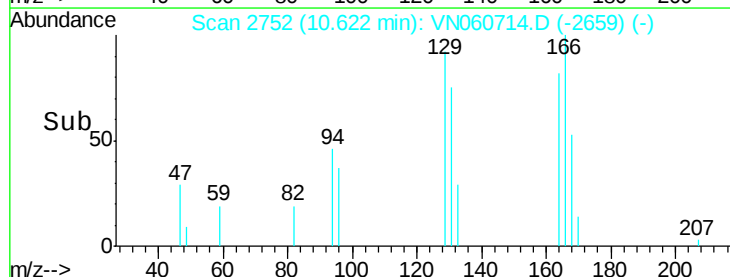
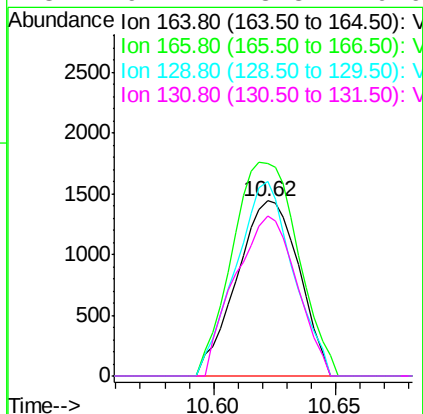
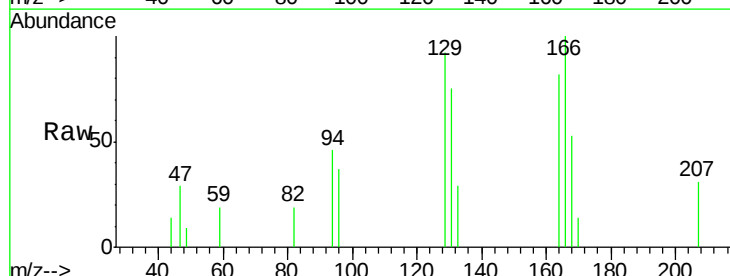
Instrument :
MSVOA_N
ClientSampleId :
MW203D1-20200315

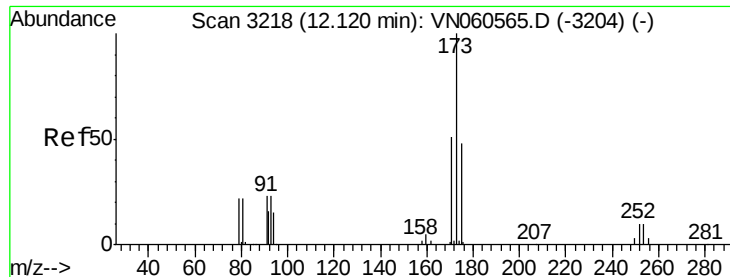
Tgt Ion:117 Resp: 293867
Ion Ratio Lower Upper
117 100
82 57.5 46.7 70.1
119 31.4 25.5 38.3



#64
Tetrachloroethene
Concen: 1.099 ug/l
RT: 10.62 min Scan# 2752
Delta R.T. 0.00 min
Lab File: VN060714.D
Acq: 26 Mar 2020 15:04

Tgt Ion:164 Resp: 2542
Ion Ratio Lower Upper
164 100
166 121.5 102.7 154.1
129 111.5 77.2 115.8
131 91.4 73.8 110.6





#71

Bromoform

Concen: 2.105 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN060714.D

Acq: 26 Mar 2020 15:04

Instrument :

MSVOA_N

ClientSampleId :

MW203D1-20200315

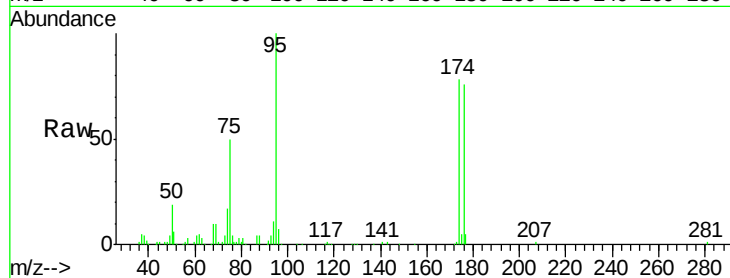
Tgt Ion:173 Resp: 771

Ion Ratio Lower Upper

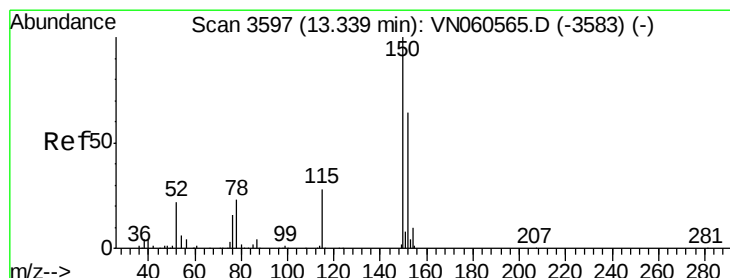
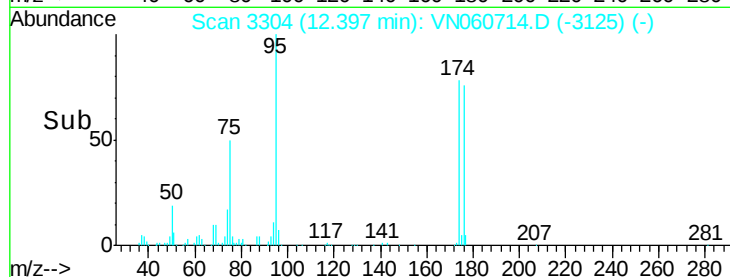
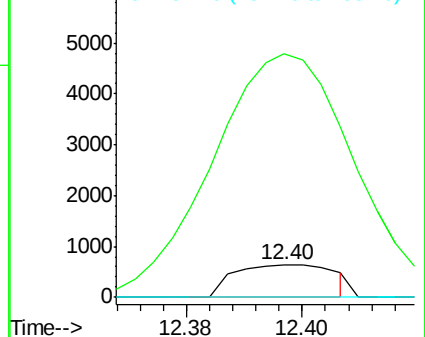
173 100

175 897.0 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: VN060714.D

Acq: 26 Mar 2020 15:04

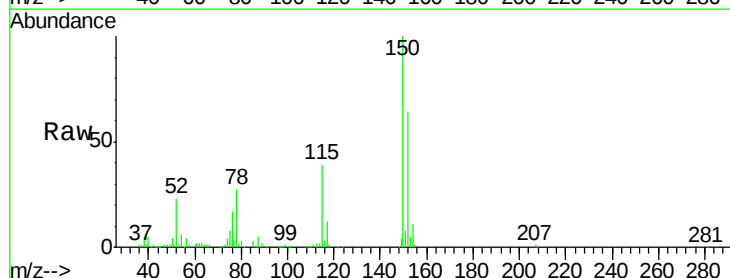
Tgt Ion:152 Resp: 131994

Ion Ratio Lower Upper

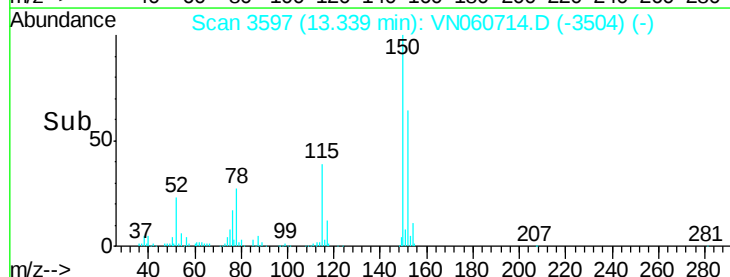
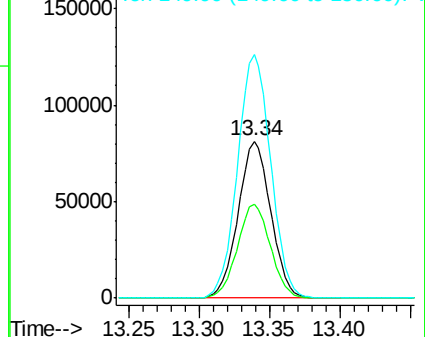
152 100

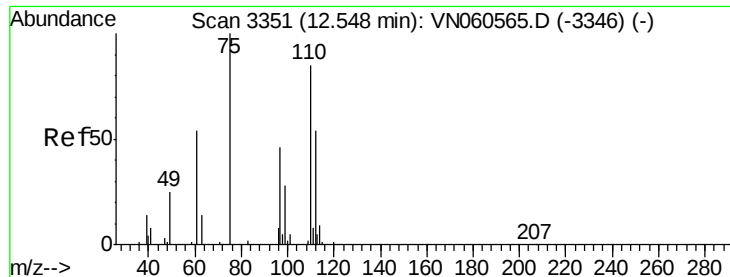
115 60.4 30.2 90.6

150 157.8 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





#76

1,2,3-Trichloropropane

Concen: 25.540 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060714.D

Acq: 26 Mar 2020 15:04

Instrument :

MSVOA_N

ClientSampleId :

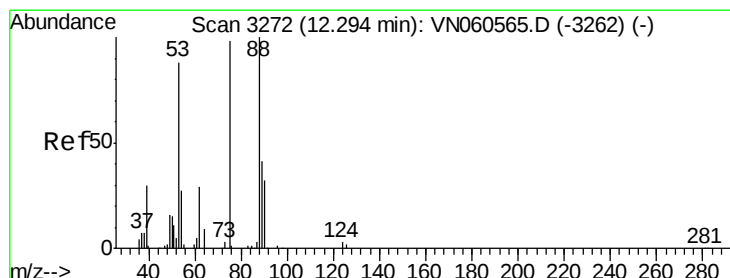
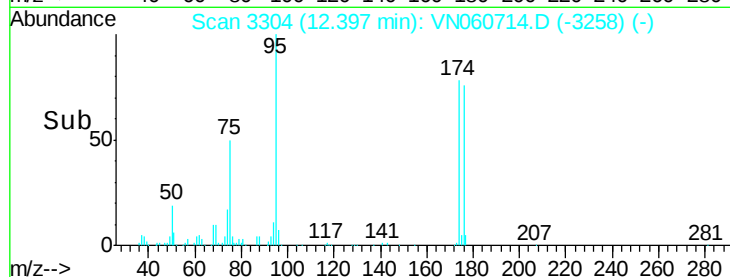
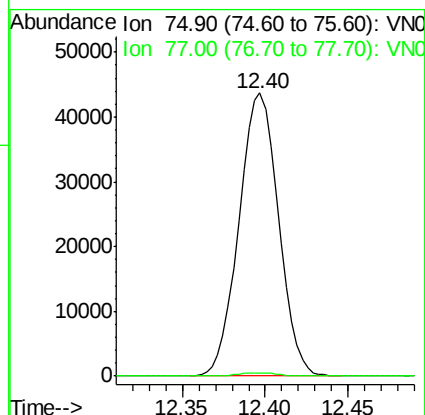
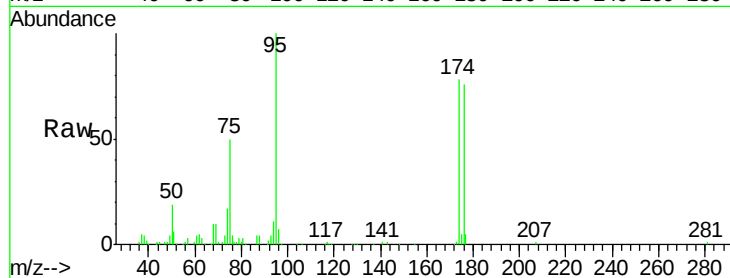
MW203D1-20200315

Tgt Ion: 75 Resp: 72742

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 65.594 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060714.D

Acq: 26 Mar 2020 15:04

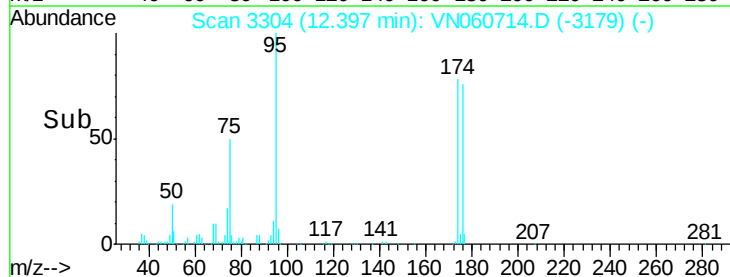
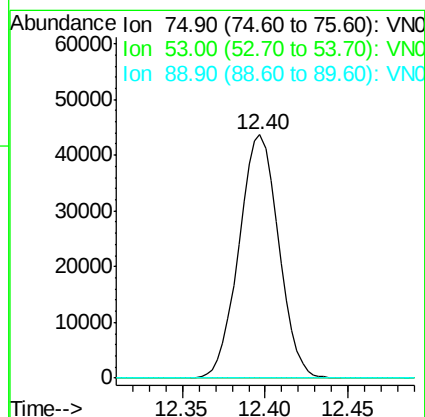
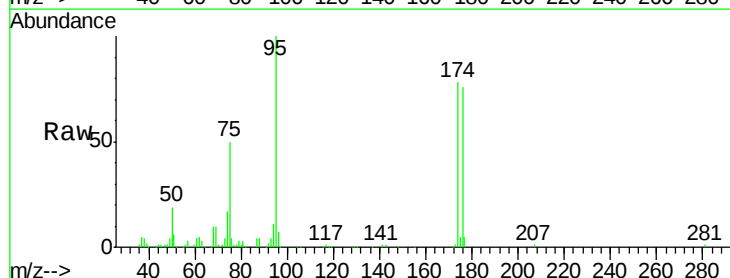
Tgt Ion: 75 Resp: 72742

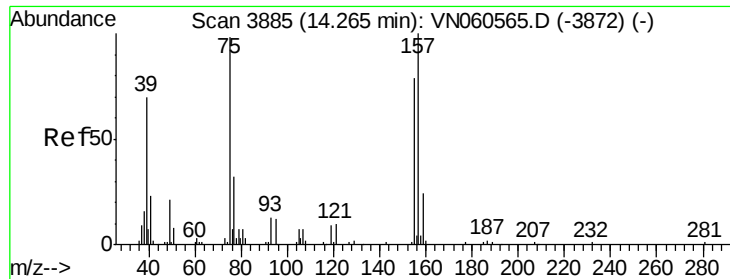
Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.48 min Scan# 3953

Delta R.T. 0.22 min

Lab File: VN060714.D

Acq: 26 Mar 2020 15:04

Instrument :

MSVOA_N

ClientSampleId :

MW203D1-20200315

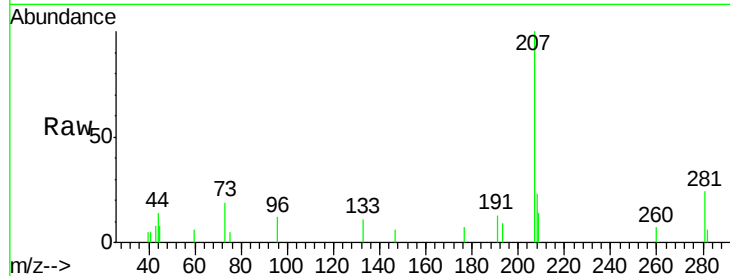
Tgt Ion: 75 Resp: 30

Ion Ratio Lower Upper

75 100

155 0.0 40.7 122.1#

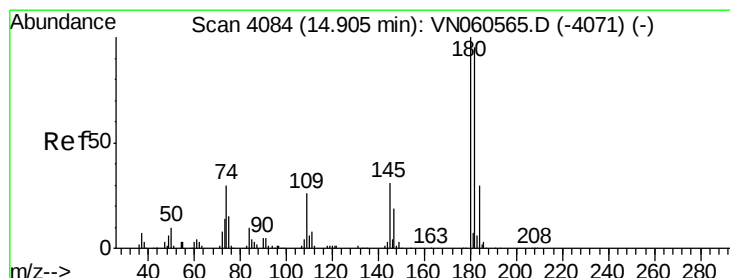
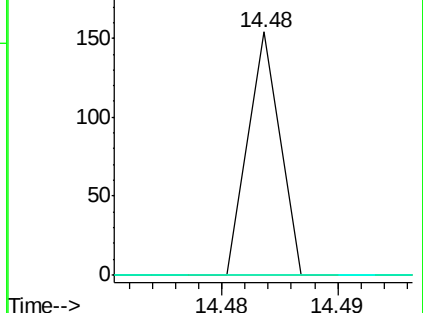
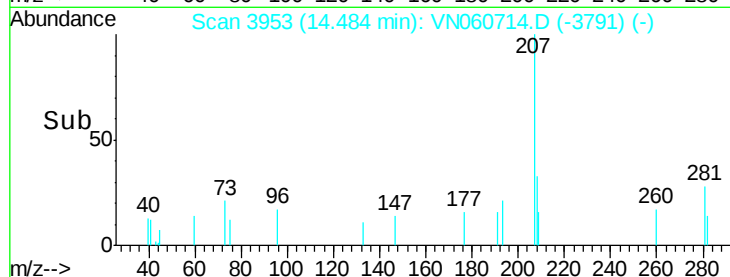
157 0.0 51.5 154.7#



Abundance Ion 74.90 (74.60 to 75.60): VN060714.D (-3791) (-)

Ion 154.80 (154.50 to 155.50): VN060714.D (-3791) (-)

Ion 156.80 (156.50 to 157.50): VN060714.D (-3791) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.441 ug/l

RT: 14.90 min Scan# 4084

Delta R.T. 0.00 min

Lab File: VN060714.D

Acq: 26 Mar 2020 15:04

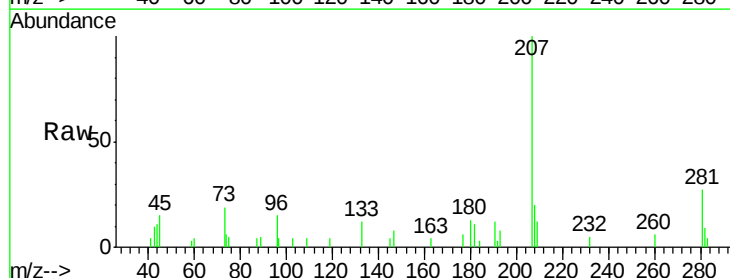
Tgt Ion: 180 Resp: 1089

Ion Ratio Lower Upper

180 100

182 84.7 47.9 143.8

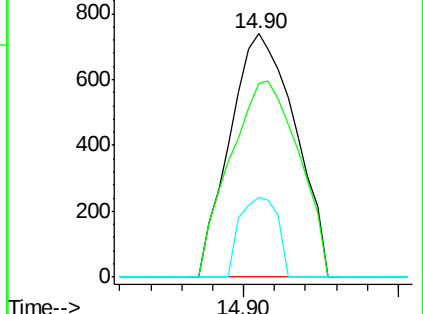
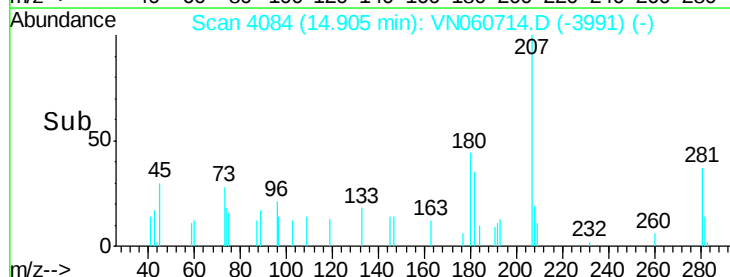
145 18.8 15.4 46.2

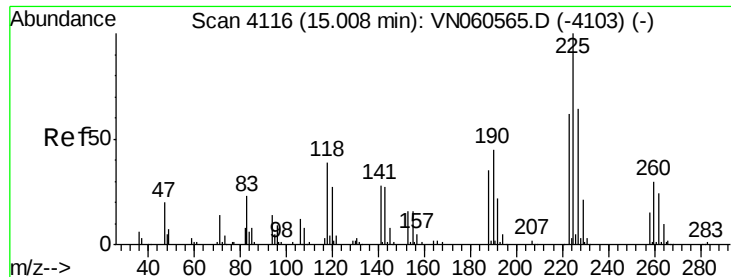


Abundance Ion 179.80 (179.50 to 180.50): VN060714.D (-3991) (-)

Ion 181.80 (181.50 to 182.50): VN060714.D (-3991) (-)

Ion 144.80 (144.50 to 145.50): VN060714.D (-3991) (-)





#94

Hexachlorobutadiene

Concen: 0.337 ug/l

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN060714.D

Acq: 26 Mar 2020 15:04

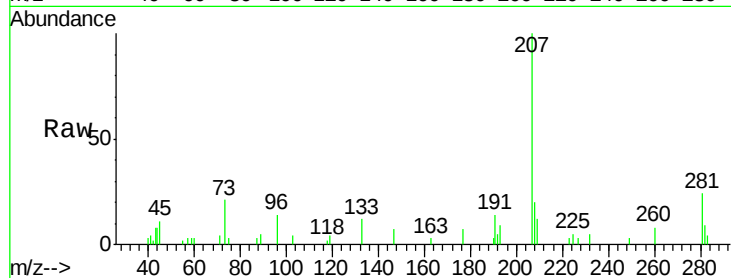
Instrument :

MSVOA_N

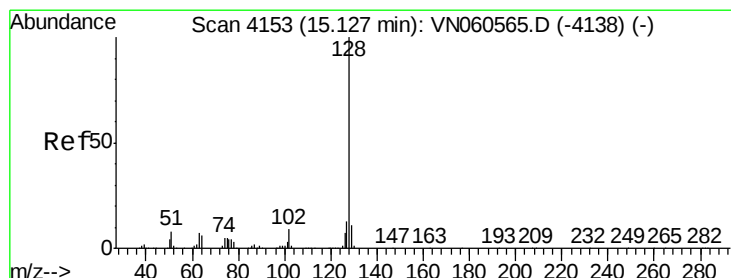
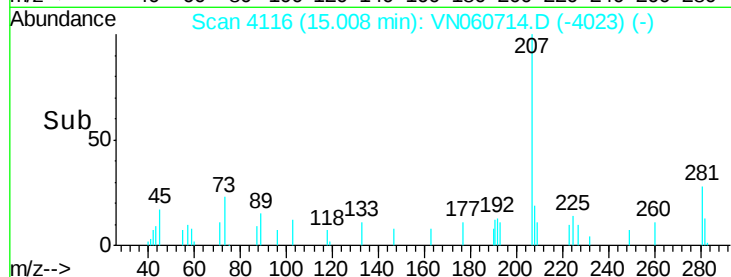
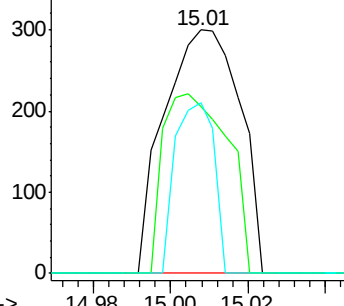
ClientSampleId :

MW203D1-20200315

Tgt Ion:	225	Resp:	408
Ion	Ratio	Lower	Upper
225	100		
223	63.0	31.6	95.0
227	35.8	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: 0.541 ug/l

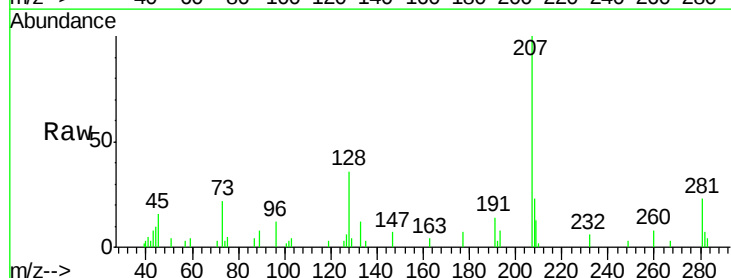
RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

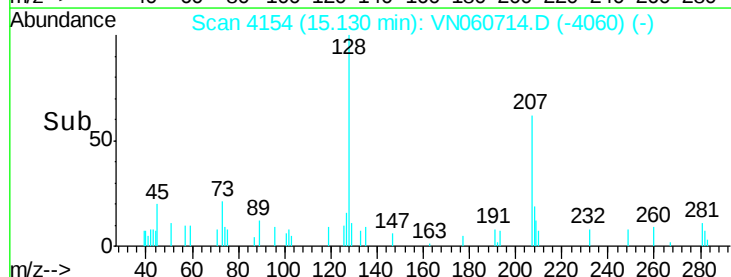
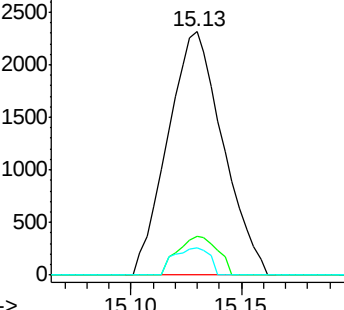
Lab File: VN060714.D

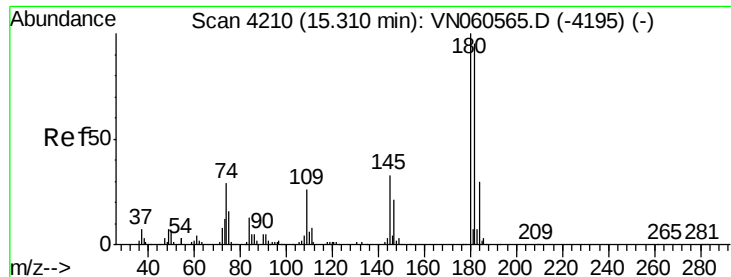
Acq: 26 Mar 2020 15:04

Tgt Ion:	128	Resp:	4020
Ion	Ratio	Lower	Upper
128	100		
127	11.6	10.2	15.2
129	7.2	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

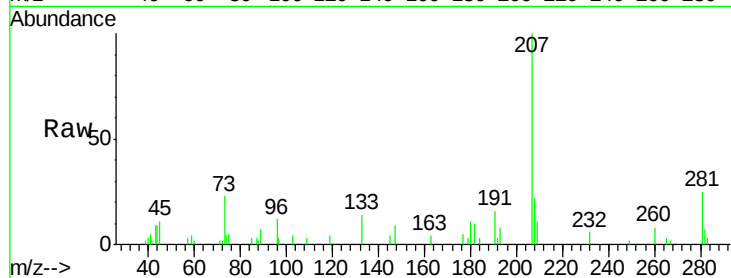




#96
 1,2,3-Trichlorobenzene
 Concen: 0.493 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN060714.D
 Acq: 26 Mar 2020 15:04

Instrument :
 MSVOA_N
 ClientSampleId :
 MW203D1-20200315

Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.3	47.5	142.6
145	25.5	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

