

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032119\
 Data File : VN054517.D
 Acq On : 21 Mar 2019 18:00
 Operator : JC/SP
 Sample : K1965-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-HN-MW24IR-20190315

Quant Time: Mar 22 10:16:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	459068	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	847476	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	899062	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	344453	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	310434	54.37	ug/l	0.00
Spiked Amount			Recovery	=	108.74%	
35) Dibromofluoromethane	7.59	113	263824	48.32	ug/l	0.00
Spiked Amount			Recovery	=	96.64%	
50) Toluene-d8	10.09	98	1094081	53.30	ug/l	0.00
Spiked Amount			Recovery	=	106.60%	
62) 4-Bromofluorobenzene	12.40	95	426866	61.12	ug/l	0.00
Spiked Amount			Recovery	=	122.24%	

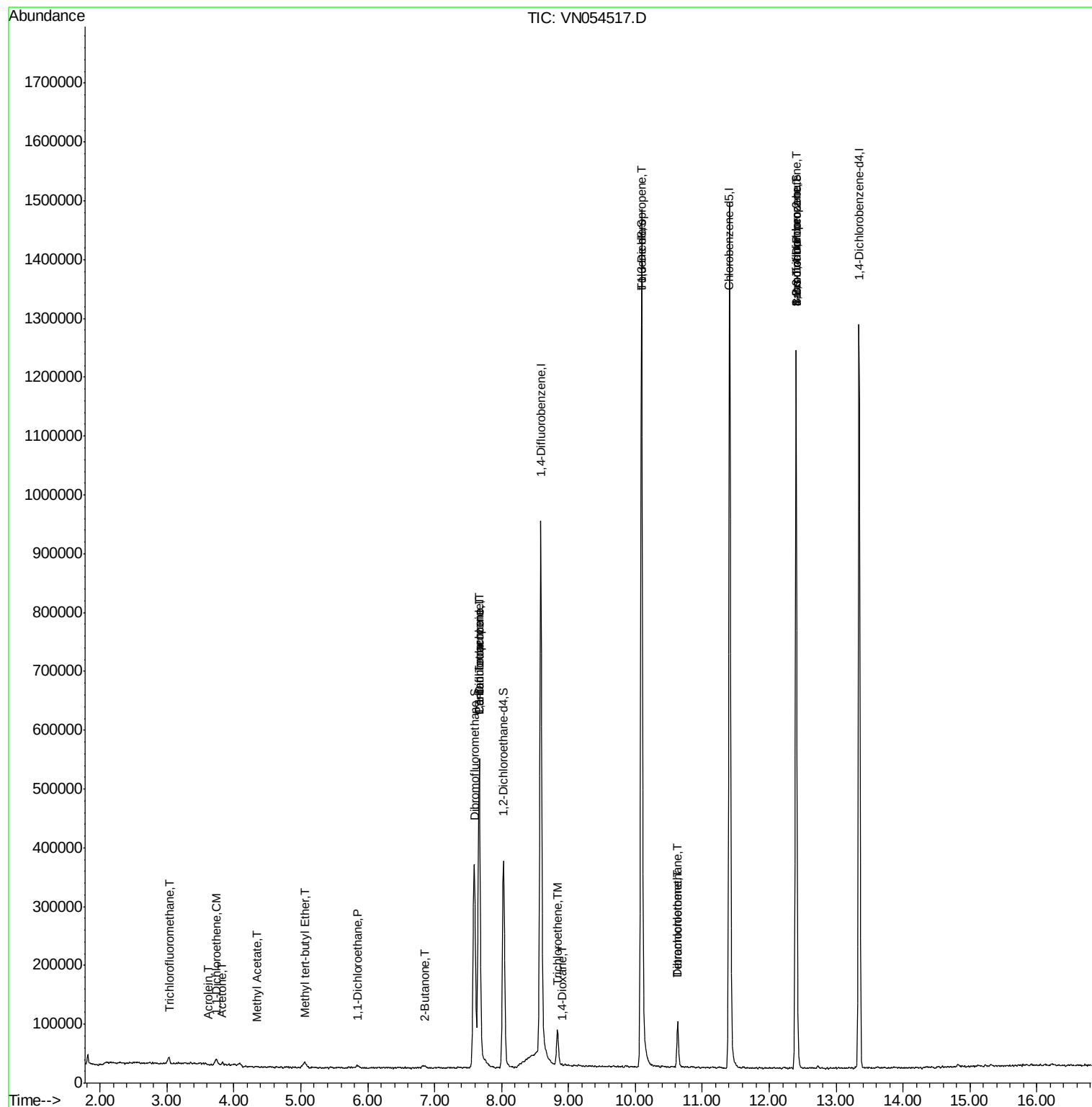
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
7) Trichlorofluoromethane	3.03	101	9203	1.264	ug/l	94
12) 1,1-Dichloroethene	3.73	96	3718	0.840	ug/l	88
13) Acrolein	3.61	56	255	0.535	ug/l #	75
16) Acetone	3.82	43	4232	2.465	ug/l #	75
18) Methyl Acetate	4.34	43	2167	0.566	ug/l #	64
19) Methyl tert-butyl Ether	5.06	73	15703	1.215	ug/l	98
24) 1,1-Dichloroethane	5.85	63	5514	0.623	ug/l #	80
25) 2-Butanone	6.85	43	481	0.219	ug/l #	46
31) Cyclohexane	7.67	56	8916	Below Cal	#	37
36) 1,1-Dichloropropene	7.66	75	32603	4.114	ug/l #	47
38) Carbon Tetrachloride	7.67	117	42373	5.503	ug/l #	16
44) Trichloroethene	8.83	130	22939	3.641	ug/l	92
49) 1,4-Dioxane	8.92	88	34	0.589	ug/l #	1
53) t-1,3-Dichloropropene	10.10	75	280	2.266	ug/l #	1
60) Dibromochloromethane	10.63	129	16089	3.018	ug/l #	11
64) Tetrachloroethene	10.63	164	18836	2.526	ug/l	98
71) Bromoform	12.40	173	2060	2.655	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	217413	39.776	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	217413	131.595	ug/l #	11
94) Hexachlorobutadiene	15.00	225	176	Below Cal	#	56

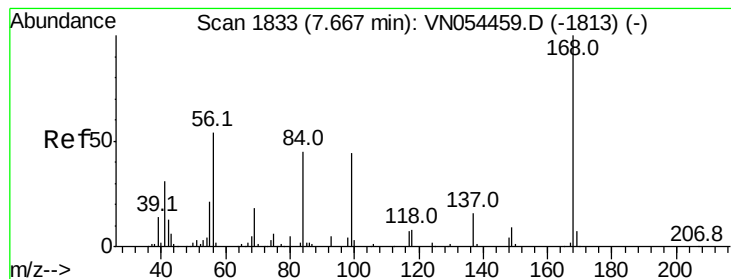
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054517.D

Acq: 21 Mar 2019 18:00

Instrument :

MSVOA_N

ClientSampleId :

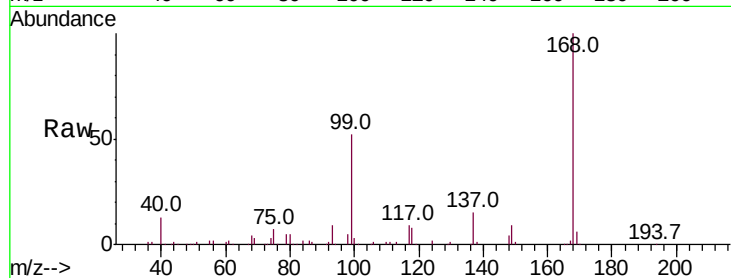
BP-HN-MW24IR-20190315

Tot Ion:168 Resp: 459068

Ion Ratio Lower Upper

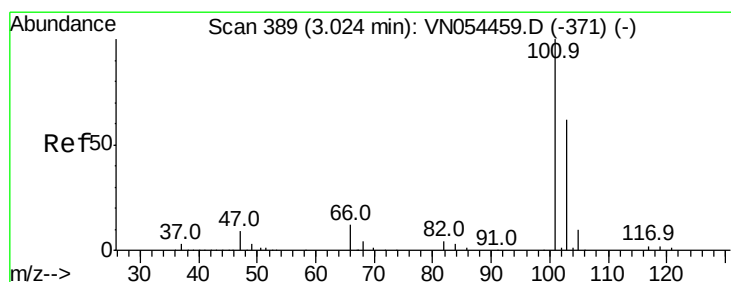
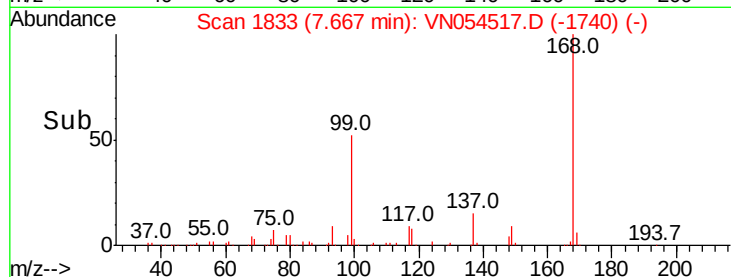
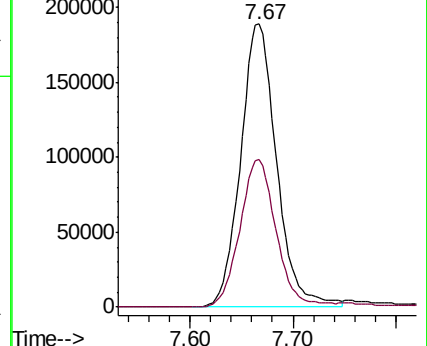
168 100

99 52.0 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#7

Trichlorofluoromethane

Concen: 1.264 ug/l

RT: 3.03 min Scan# 390

Delta R.T. 0.00 min

Lab File: VN054517.D

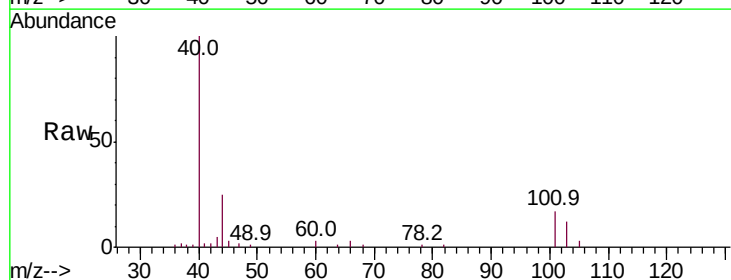
Acq: 21 Mar 2019 18:00

Tgt Ion:101 Resp: 9203

Ion Ratio Lower Upper

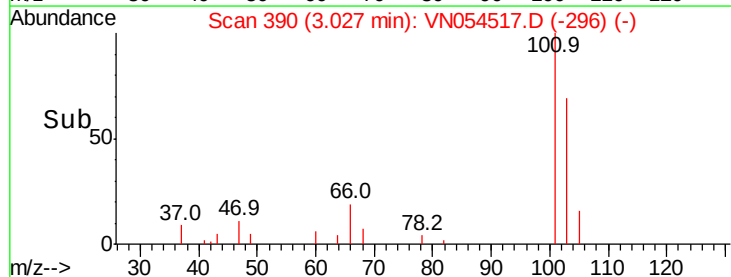
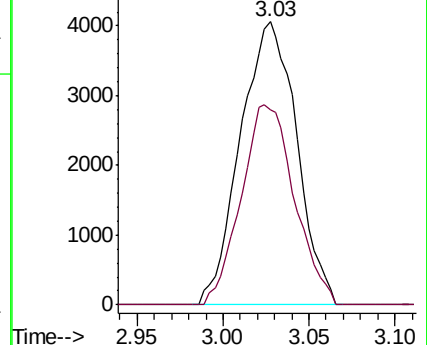
101 100

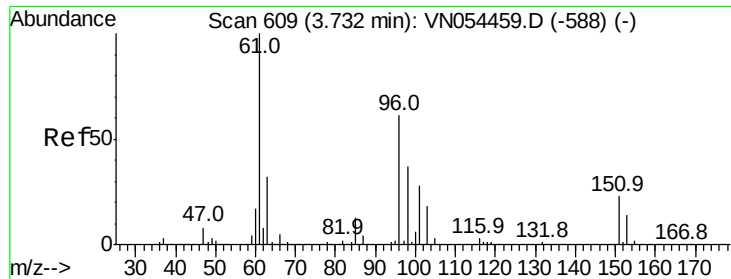
103 68.9 51.4 77.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V





#12

1,1-Dichloroethene

Concen: 0.840 ug/l

RT: 3.73 min Scan# 609

Delta R.T. 0.00 min

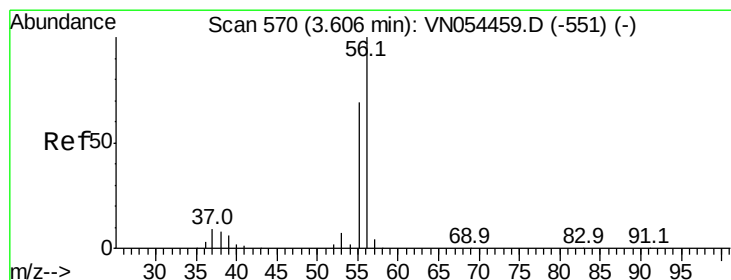
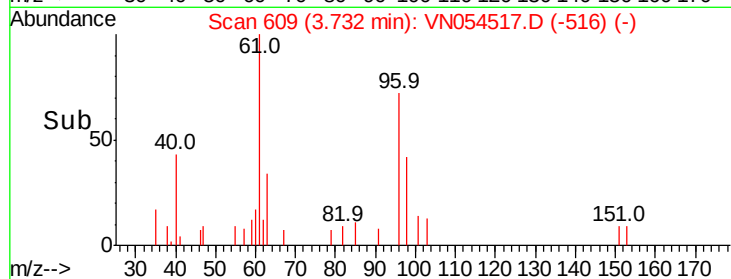
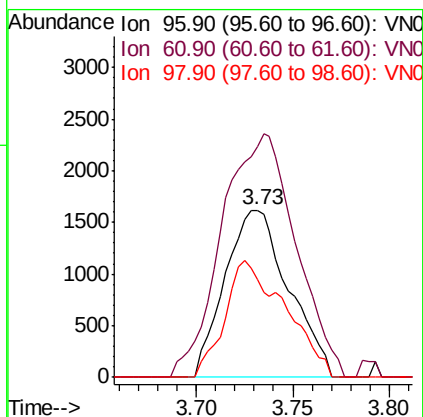
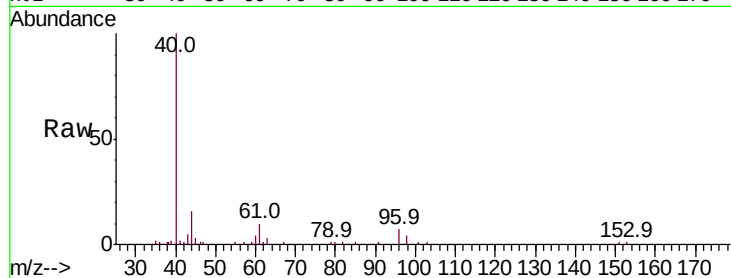
Lab File: VN054517.D

Acq: 21 Mar 2019 18:00

Instrument :
MSVOA_N
ClientSampleId :
BP-HN-MW24IR-20190315

Tot Ion: 96 Resp: 3718

Ion	Ratio	Lower	Upper
96	100		
61	127.1	116.5	174.7
98	58.3	51.0	76.4



#13

Acrolein

Concen: 0.535 ug/l

RT: 3.61 min Scan# 572

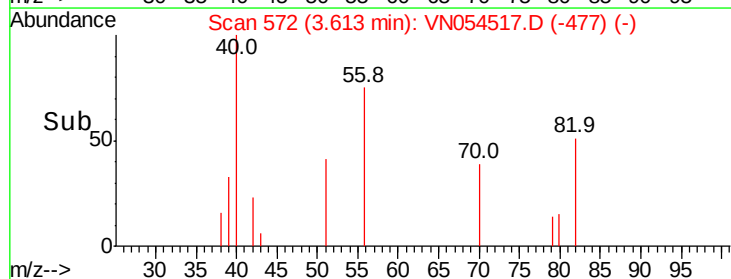
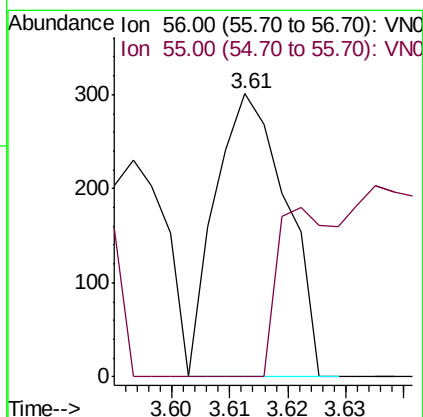
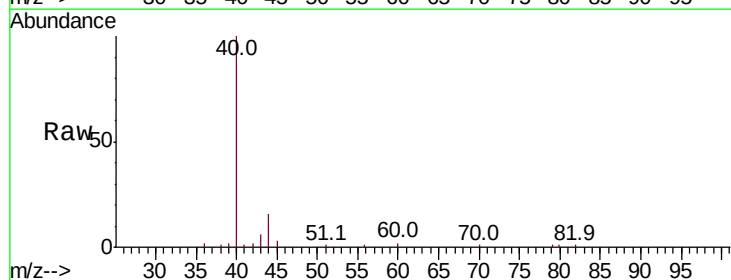
Delta R.T. 0.01 min

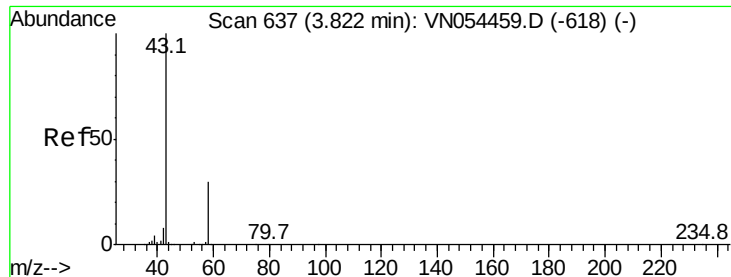
Lab File: VN054517.D

Acq: 21 Mar 2019 18:00

Tgt Ion: 56 Resp: 255

Ion	Ratio	Lower	Upper
56	100		
55	50.6	56.7	85.1#

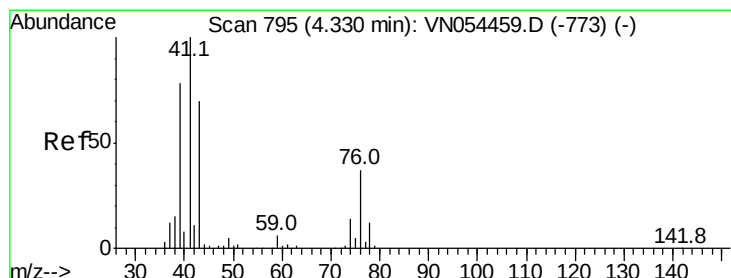
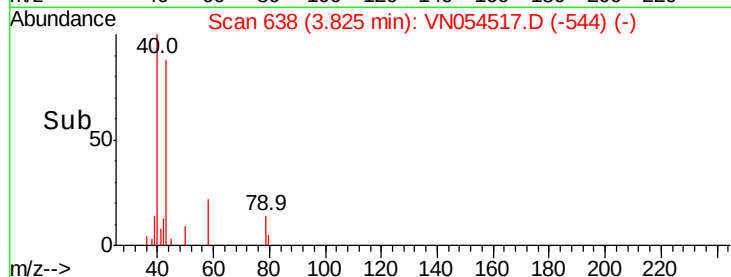
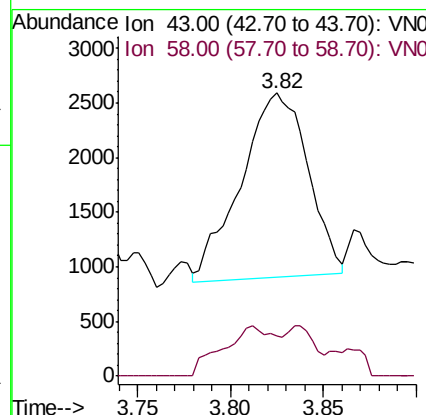
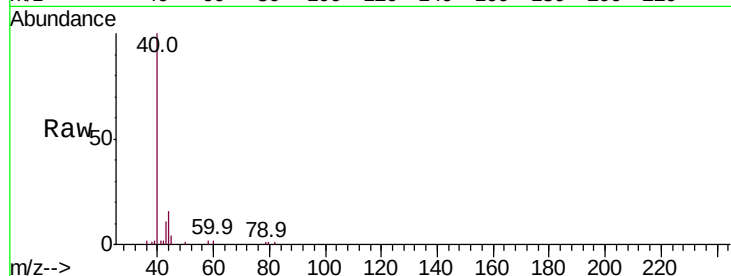




#16
Acetone
Concen: 2.465 ug/l
RT: 3.82 min Scan# 638
Delta R.T. 0.00 min
Lab File: VN054517.D
Acq: 21 Mar 2019 18:00

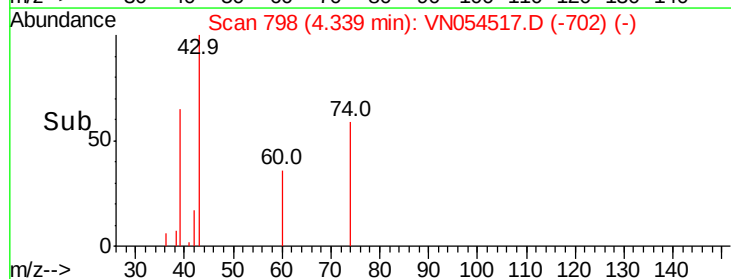
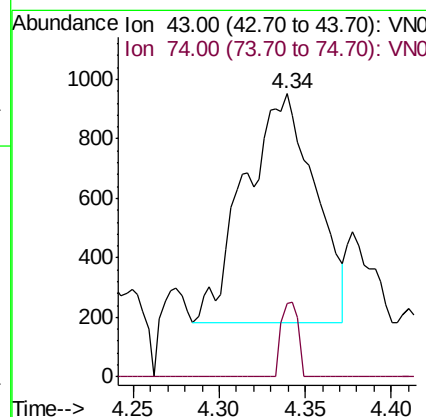
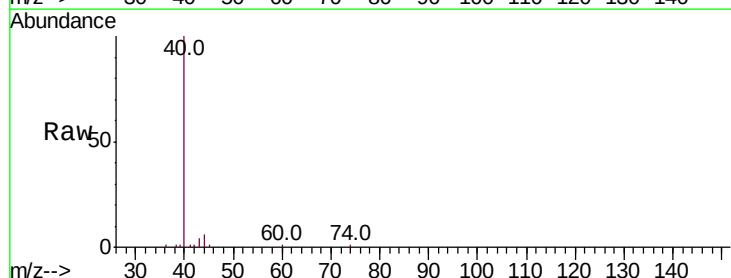
Instrument :
MSVOA_N
ClientSampleId :
BP-HN-MW24IR-20190315

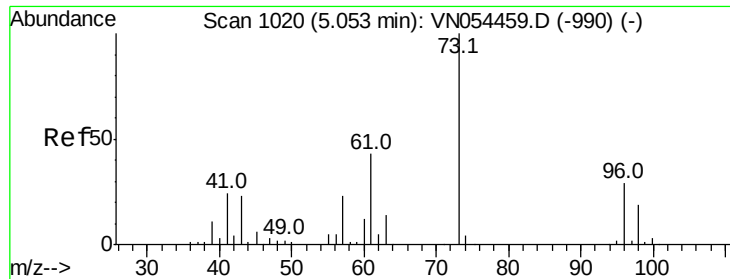
Tot Ion: 43 Resp: 4232
Ion Ratio Lower Upper
43 100
58 22.5 29.9 44.9#



#18
Methyl Acetate
Concen: 0.566 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN054517.D
Acq: 21 Mar 2019 18:00

Tgt Ion: 43 Resp: 2167
Ion Ratio Lower Upper
43 100
74 7.9 20.8 31.2#

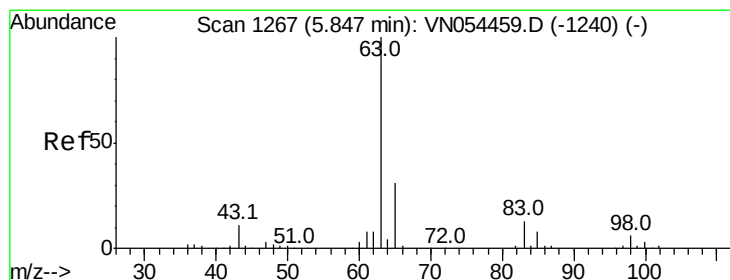
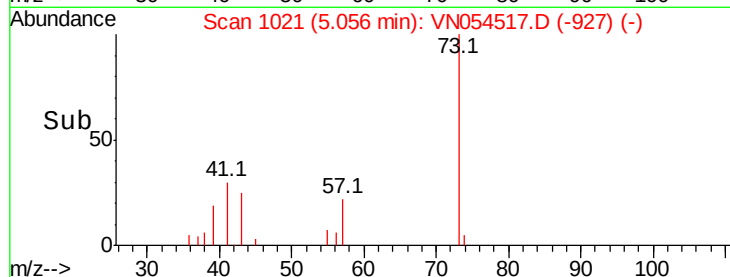
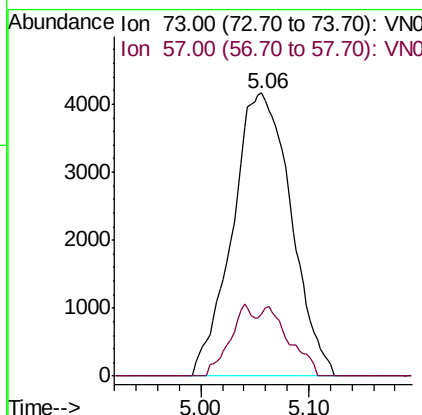
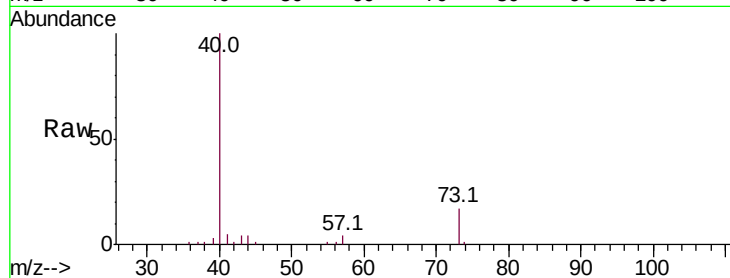




#19
Methyl tert-butyl Ether
Concen: 1.215 ug/l
RT: 5.06 min Scan# 1021
Delta R.T. 0.00 min
Lab File: VN054517.D
Acq: 21 Mar 2019 18:00

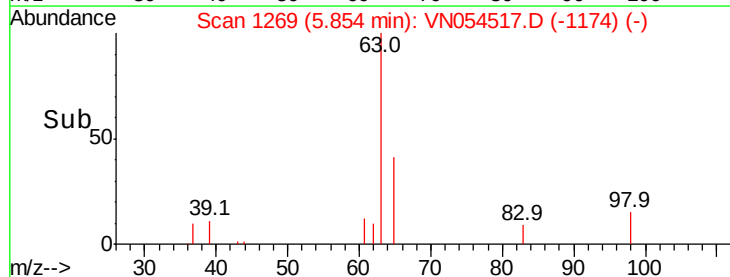
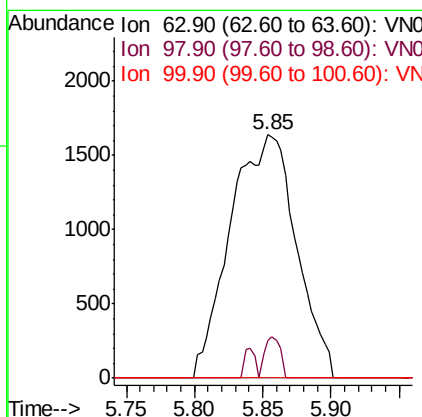
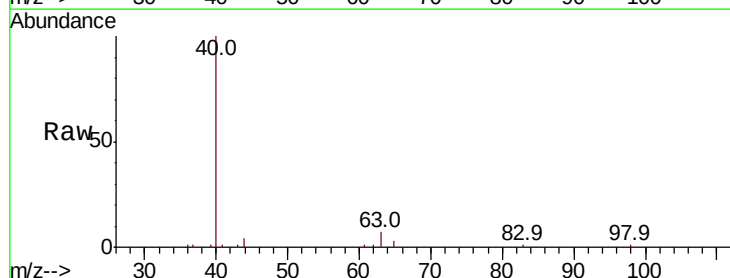
Instrument :
MSVOA_N
ClientSampleId :
BP-HN-MW24IR-20190315

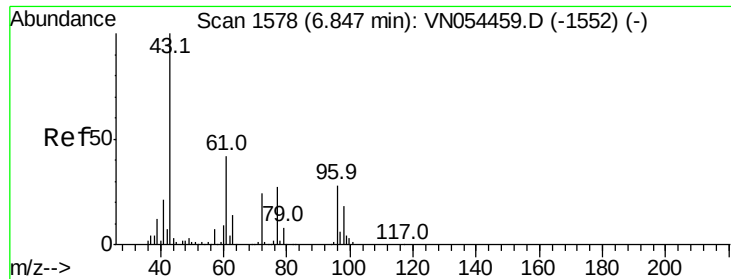
Tot Ion: 73 Resp: 15703
Ion Ratio Lower Upper
73 100
57 22.0 16.8 25.2



#24
1,1-Dichloroethane
Concen: 0.623 ug/l
RT: 5.85 min Scan# 1269
Delta R.T. 0.01 min
Lab File: VN054517.D
Acq: 21 Mar 2019 18:00

Tgt Ion: 63 Resp: 5514
Ion Ratio Lower Upper
63 100
98 15.2 3.5 10.5#
100 0.0 2.0 6.0#





#25

2-Butanone

Concen: 0.219 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VN054517.D

Acq: 21 Mar 2019 18:00

Instrument :

MSVOA_N

ClientSampleId :

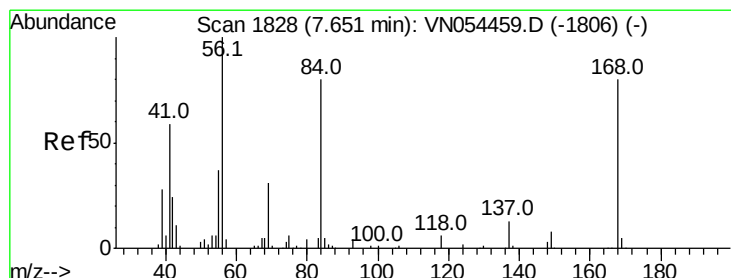
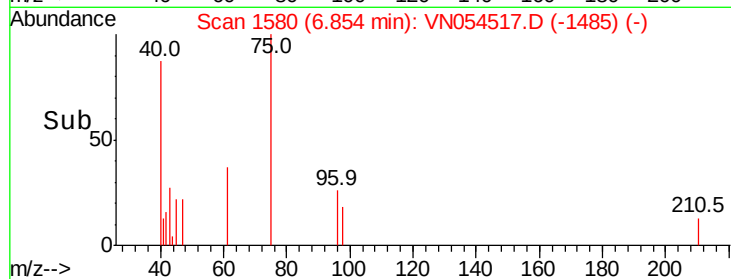
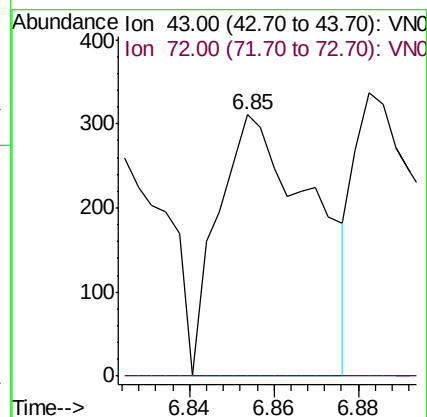
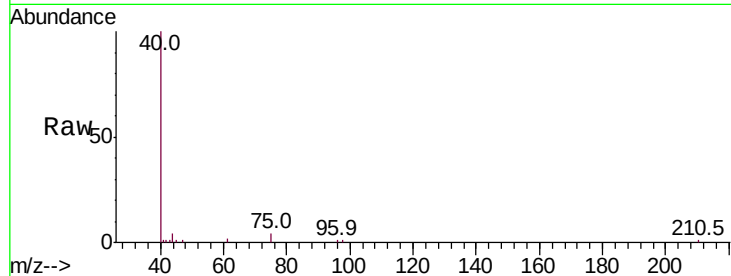
BP-HN-MW24IR-20190315

Tot Ion: 43 Resp: 481

Ion Ratio Lower Upper

43 100

72 0.0 23.0 34.6#



#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN054517.D

Acq: 21 Mar 2019 18:00

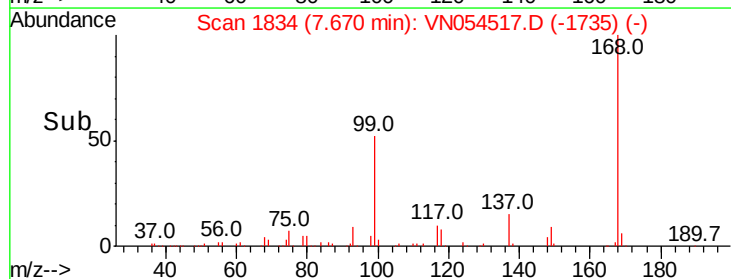
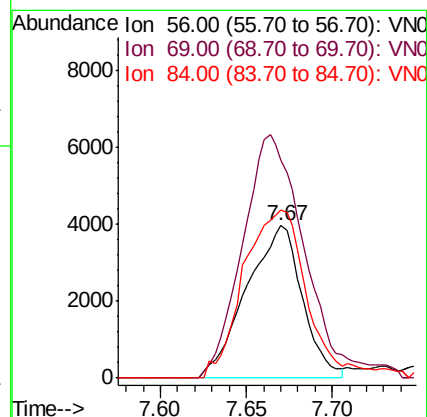
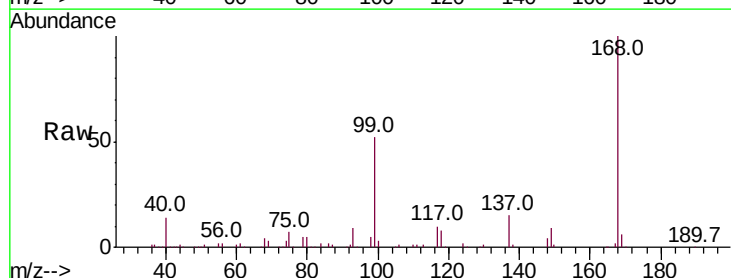
Tgt Ion: 56 Resp: 8916

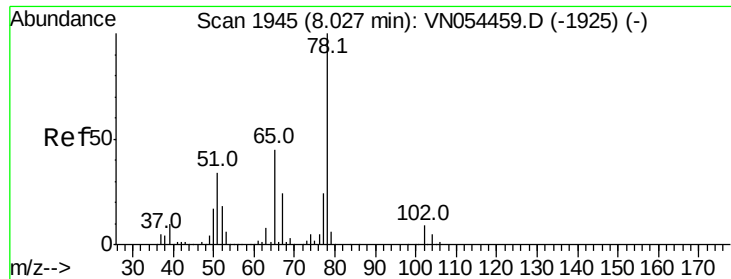
Ion Ratio Lower Upper

56 100

69 142.6 27.8 41.6#

84 110.0 74.6 111.8

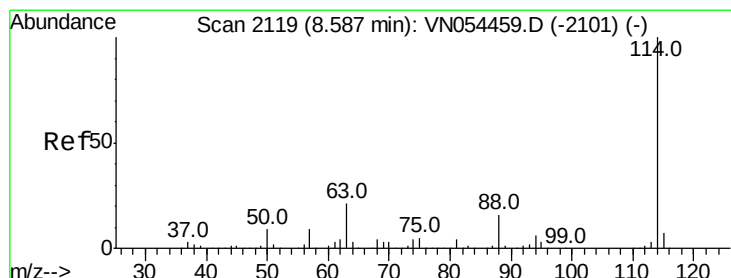
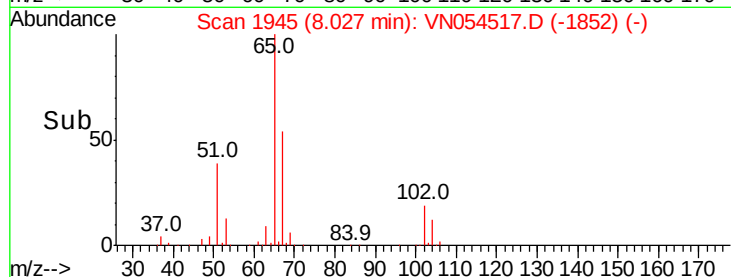
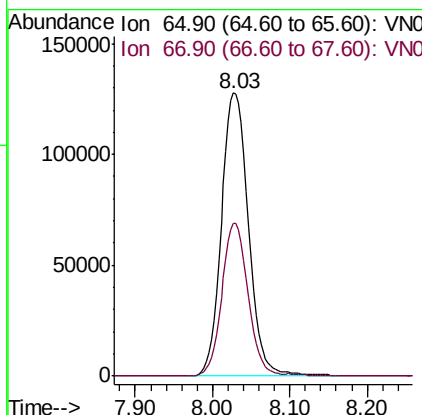
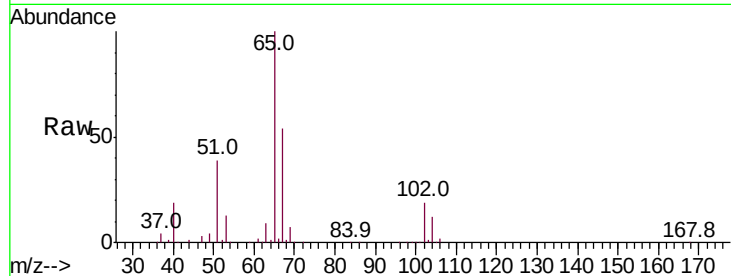




#33
 1,2-Dichloroethane-d4
 Concen: 54.366 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054517.D
 Acq: 21 Mar 2019 18:00

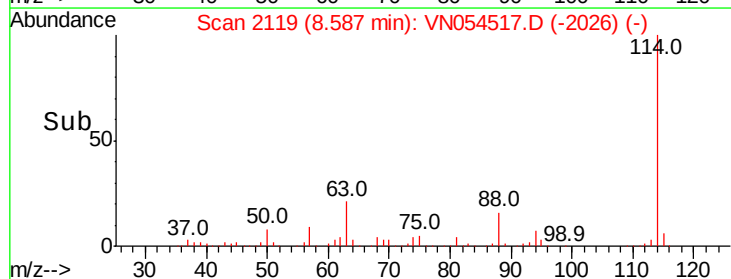
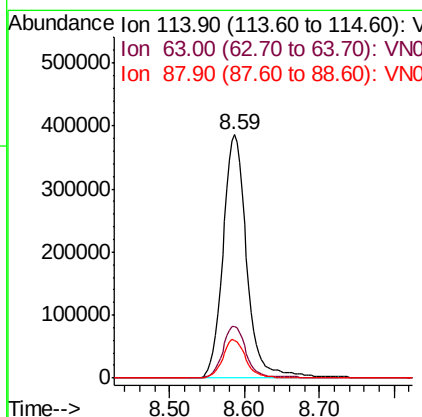
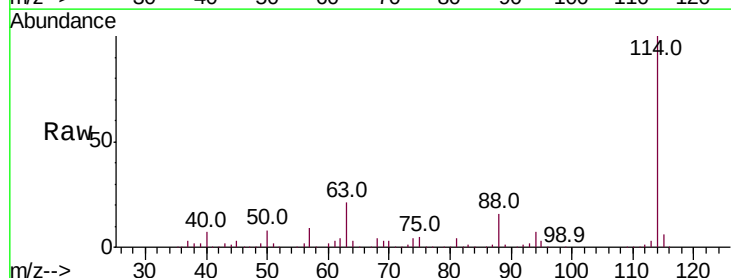
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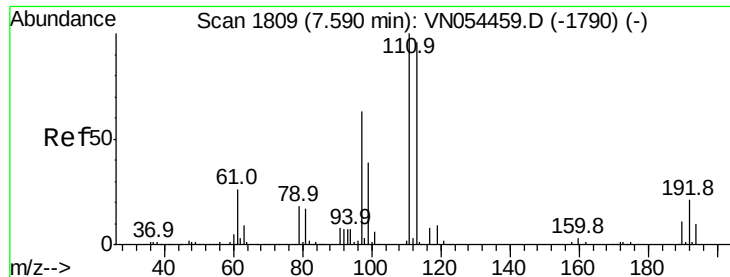
Tot Ion: 65 Resp: 310434
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054517.D
 Acq: 21 Mar 2019 18:00

Tgt Ion: 114 Resp: 847476
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 35.2
 88 15.7 0.0 30.2

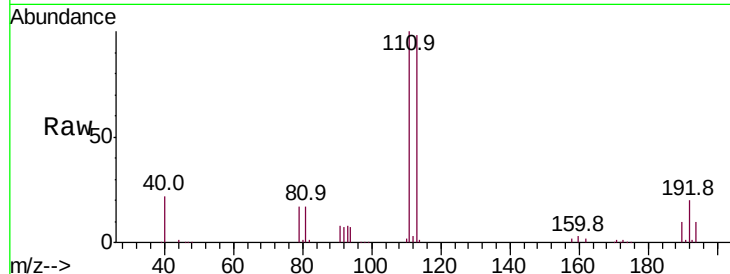




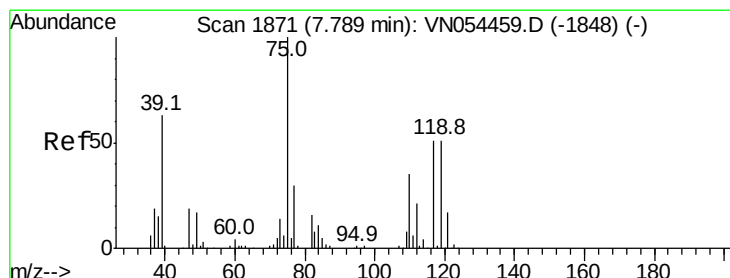
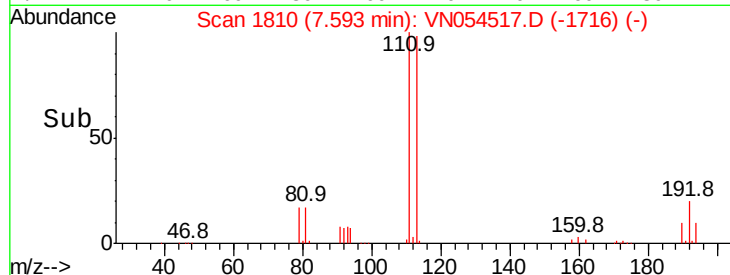
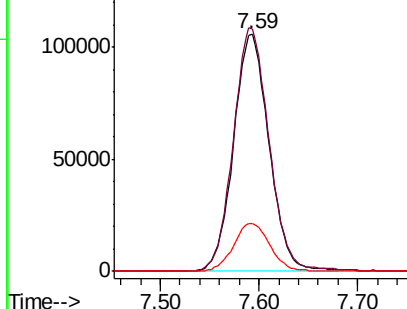
#35
 Dibromofluoromethane
 Concen: 48.321 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054517.D
 Acq: 21 Mar 2019 18:00

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-HN-MW24IR-20190315

Tot Ion:113 Resp: 263824
 Ion Ratio Lower Upper
 113 100
 111 103.8 82.2 123.4
 192 20.7 19.2 28.8

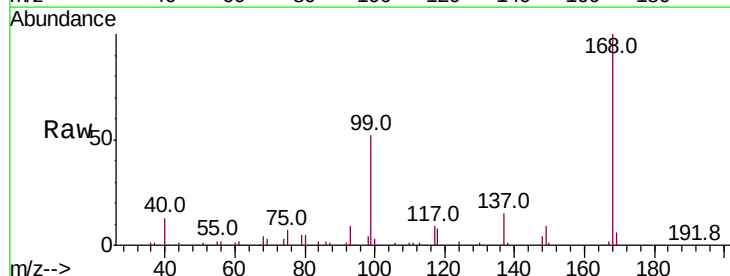


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

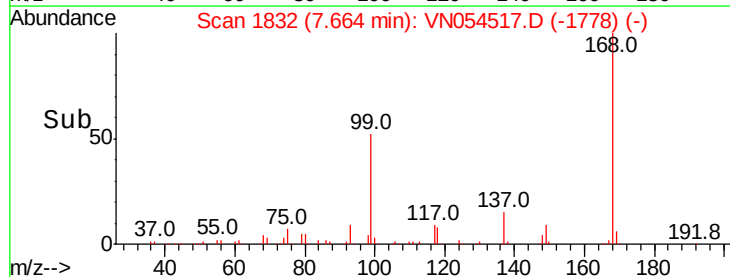
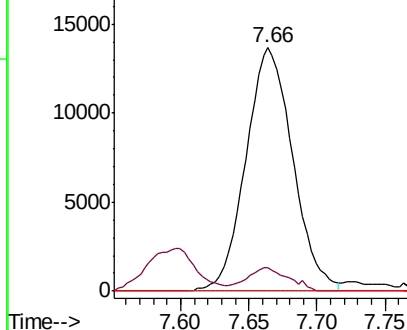


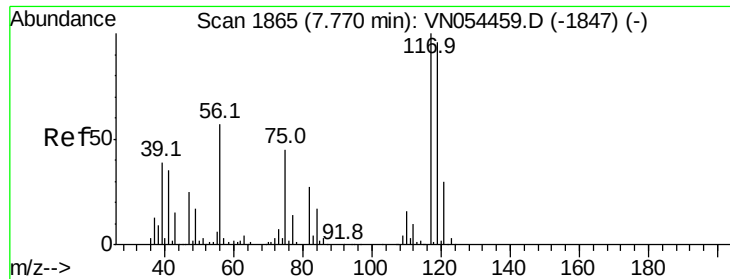
#36
 1,1-Dichloropropene
 Concen: 4.114 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054517.D
 Acq: 21 Mar 2019 18:00

Tgt Ion: 75 Resp: 32603
 Ion Ratio Lower Upper
 75 100
 110 8.5 19.1 57.5#
 77 0.0 25.0 37.4#



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





#38

Carbon Tetrachloride

Concen: 5.503 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.10 min

Lab File: VN054517.D

Acq: 21 Mar 2019 18:00

Instrument :

MSVOA_N

ClientSampleId :

BP-HN-MW24IR-20190315

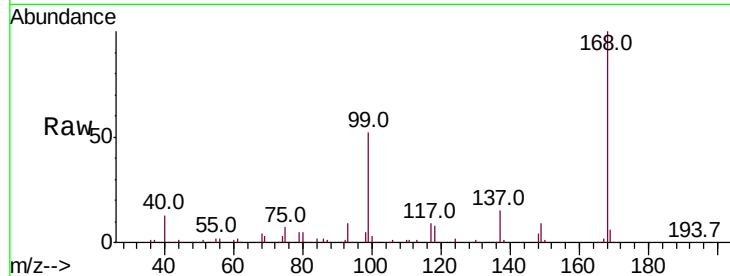
Tot Ion:117 Resp: 42373

Ion Ratio Lower Upper

117 100

119 5.2 76.3 114.5#

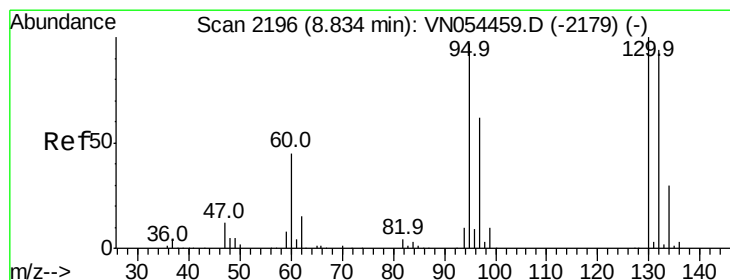
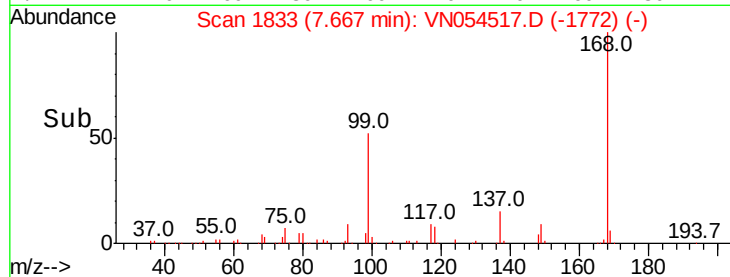
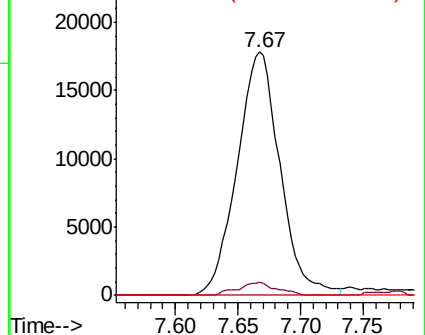
121 0.0 24.6 36.8#



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



#44

Trichloroethene

Concen: 3.641 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN054517.D

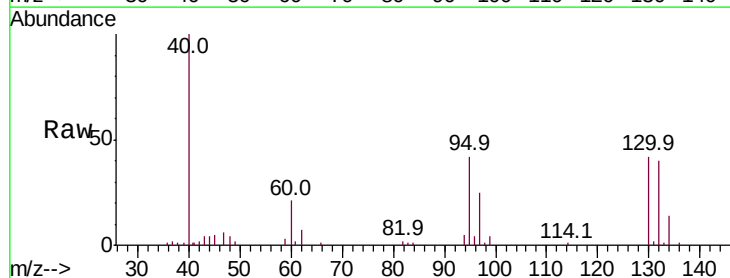
Acq: 21 Mar 2019 18:00

Tgt Ion:130 Resp: 22939

Ion Ratio Lower Upper

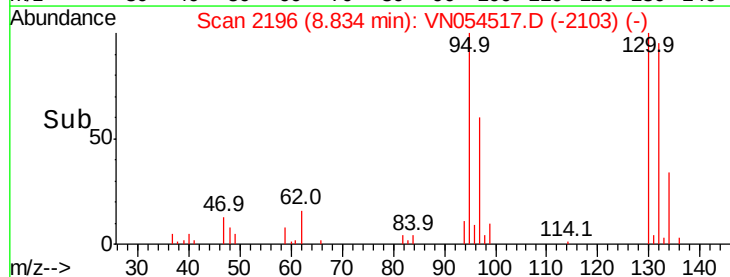
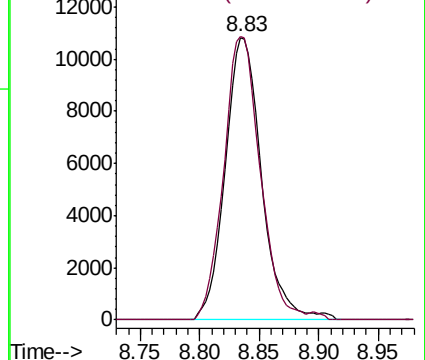
130 100

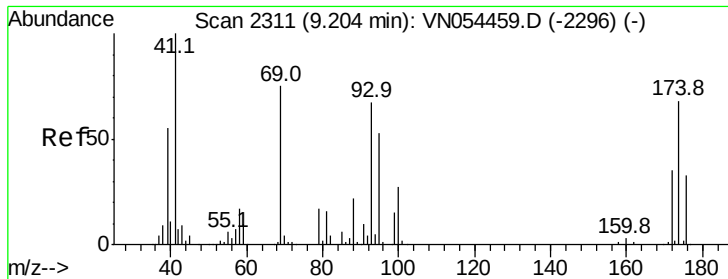
95 100.2 0.0 185.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#49

1,4-Dioxane

Concen: 0.589 ug/l

RT: 8.92 min Scan# 2222

Delta R.T. -0.29 min

Lab File: VN054517.D

Acq: 21 Mar 2019 18:00

Instrument :

MSVOA_N

ClientSampleId :

BP-HN-MW24IR-20190315

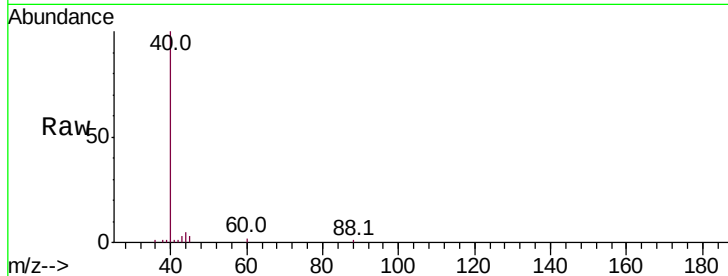
Tot Ion: 88 Resp: 34

Ion Ratio Lower Upper

88 100

43 676.5 24.1 36.1#

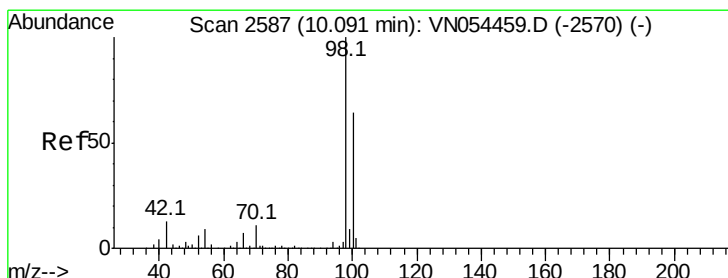
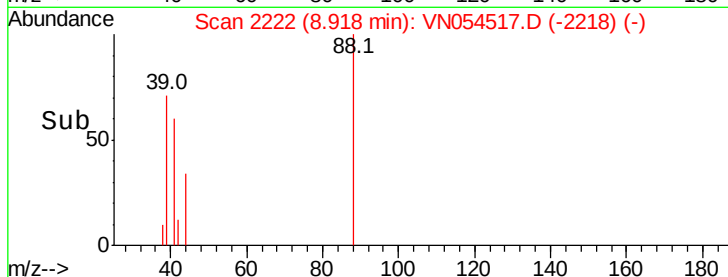
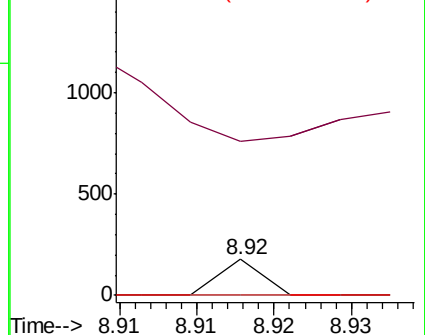
58 0.0 50.8 76.2#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 53.303 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054517.D

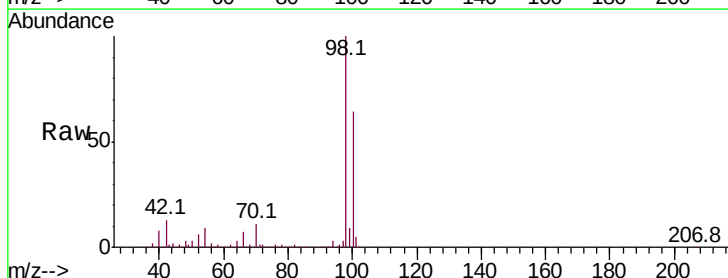
Acq: 21 Mar 2019 18:00

Tgt Ion: 98 Resp: 1094081

Ion Ratio Lower Upper

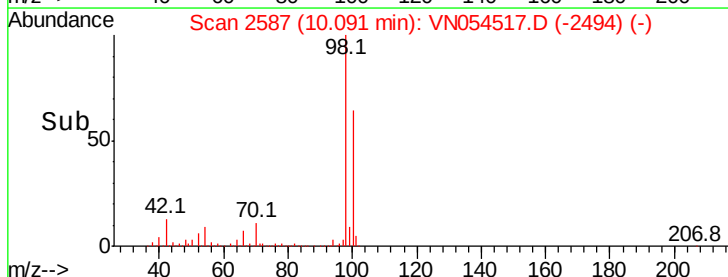
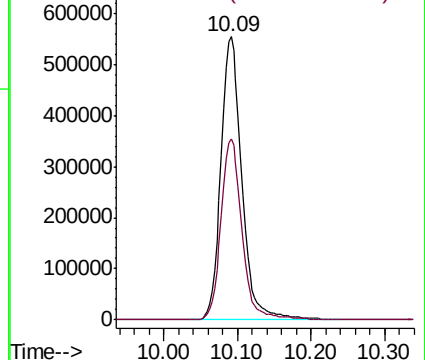
98 100

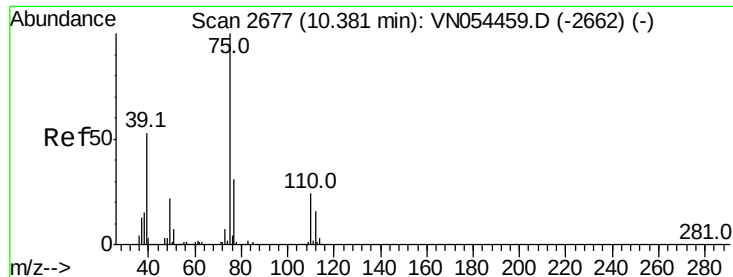
100 64.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#53

t-1,3-Dichloropropene

Concen: 2.266 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.28 min

Lab File: VN054517.D

Acq: 21 Mar 2019 18:00

Instrument :

MSVOA_N

ClientSampleId :

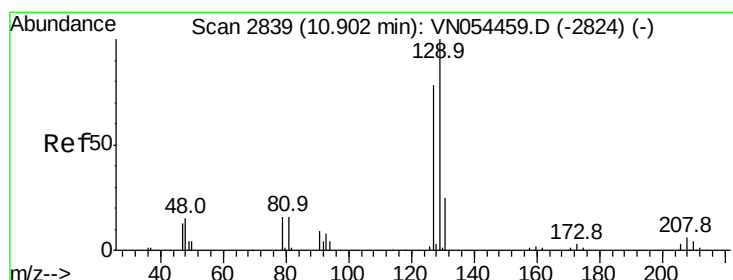
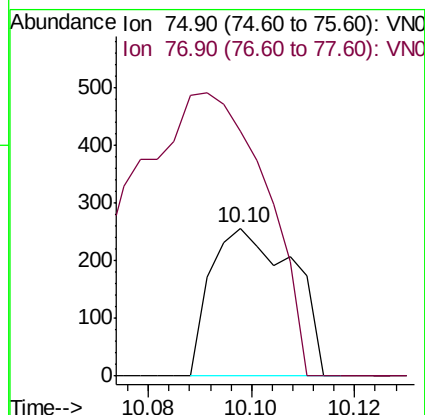
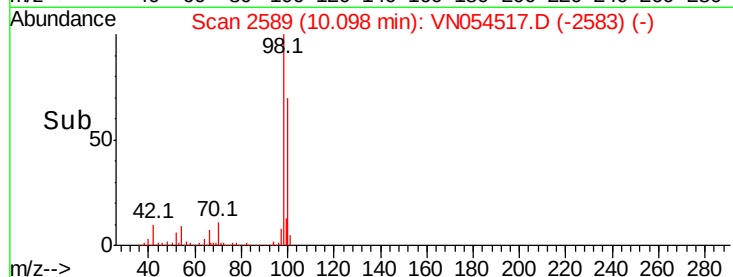
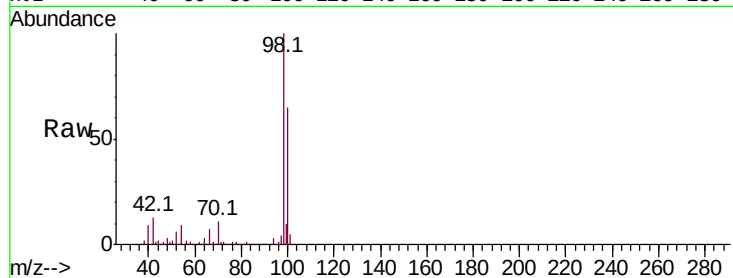
BP-HN-MW24IR-20190315

Tot Ion: 75 Resp: 280

Ion Ratio Lower Upper

75 100

77 165.6 25.8 38.8#



#60

Dibromochloromethane

Concen: 3.018 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.27 min

Lab File: VN054517.D

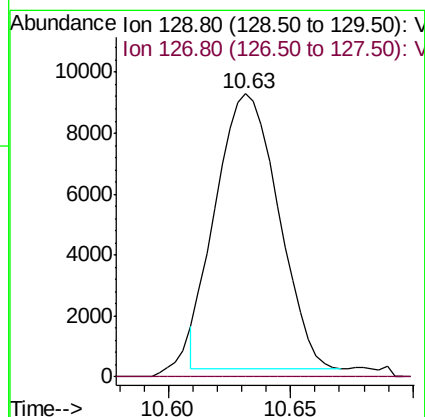
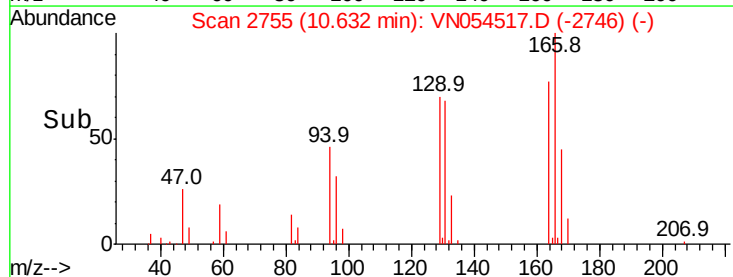
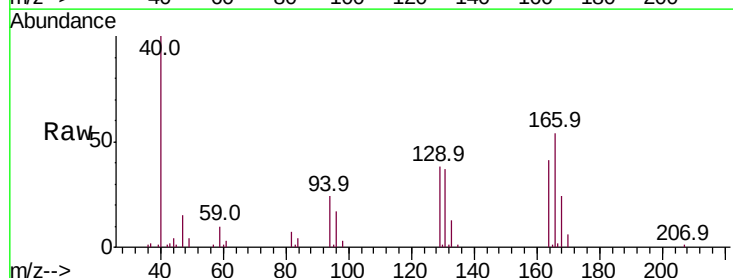
Acq: 21 Mar 2019 18:00

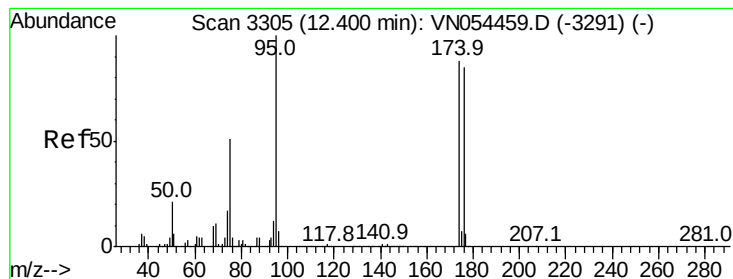
Tgt Ion: 129 Resp: 16089

Ion Ratio Lower Upper

129 100

127 0.0 38.6 115.8#





#62

4-Bromofluorobenzene

Concen: 61.116 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054517.D

Acq: 21 Mar 2019 18:00

Instrument :

MSVOA_N

ClientSampleId :

BP-HN-MW24IR-20190315

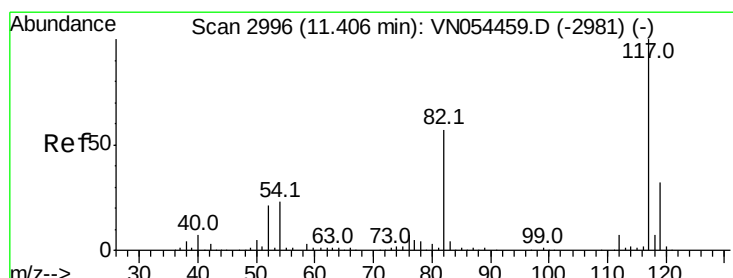
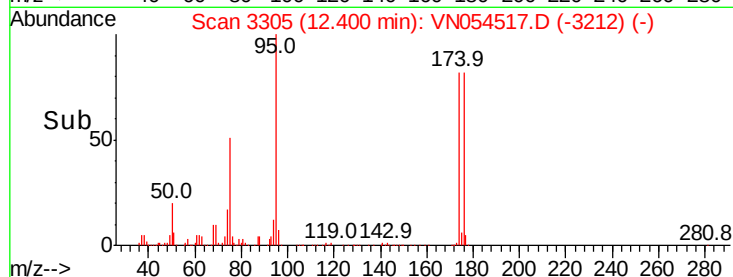
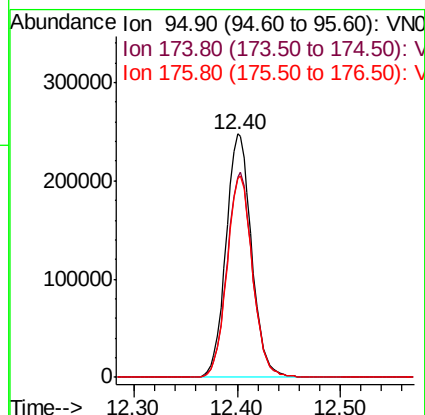
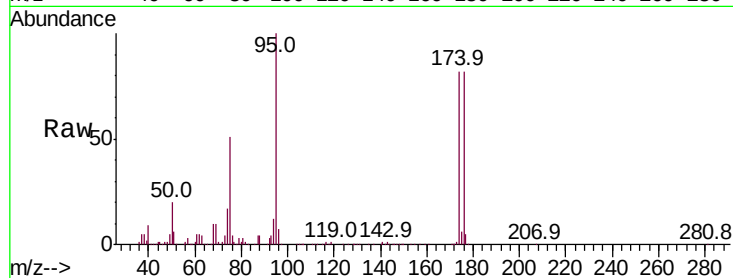
Tot Ion: 95 Resp: 426866

Ion Ratio Lower Upper

95 100

174 84.1 0.0 191.0

176 82.9 0.0 187.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054517.D

Acq: 21 Mar 2019 18:00

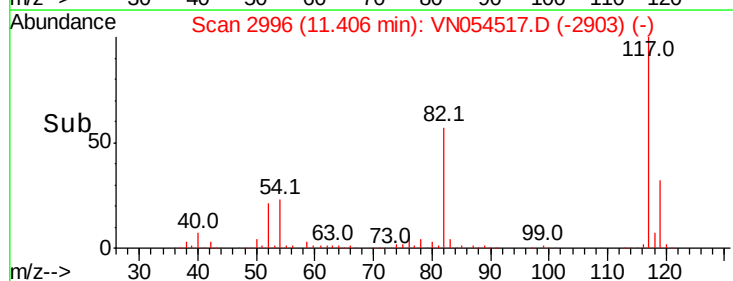
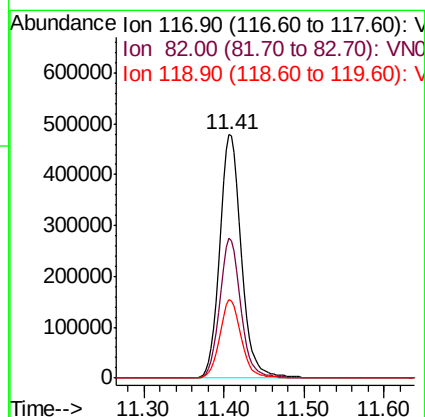
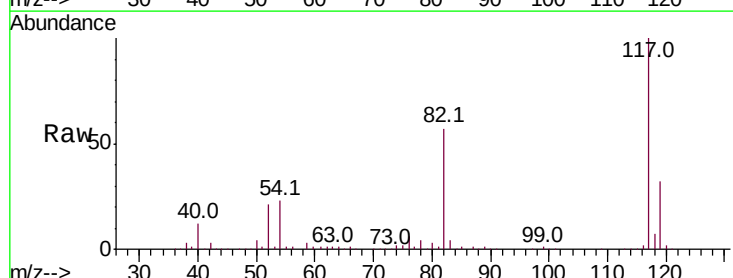
Tgt Ion: 117 Resp: 899062

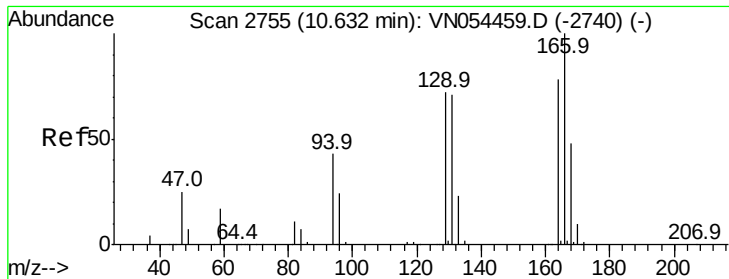
Ion Ratio Lower Upper

117 100

82 57.3 40.0 60.0

119 32.2 25.8 38.6





#64

Tetrachloroethene

Concen: 2.526 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.00 min

Lab File: VN054517.D

Acq: 21 Mar 2019 18:00

Instrument :

MSVOA_N

ClientSampleId :

BP-HN-MW24IR-20190315

Tot Ion:164 Resp: 18836

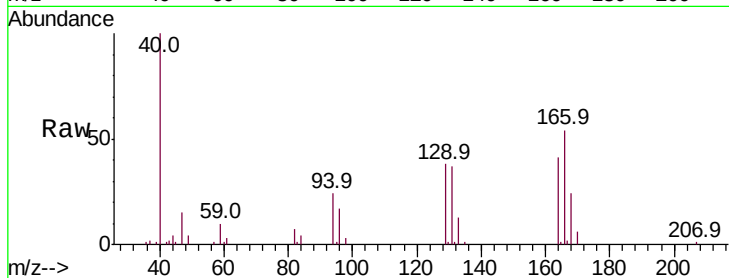
Ion Ratio Lower Upper

164 100

166 129.7 103.9 155.9

129 91.1 71.1 106.7

131 88.9 68.2 102.4

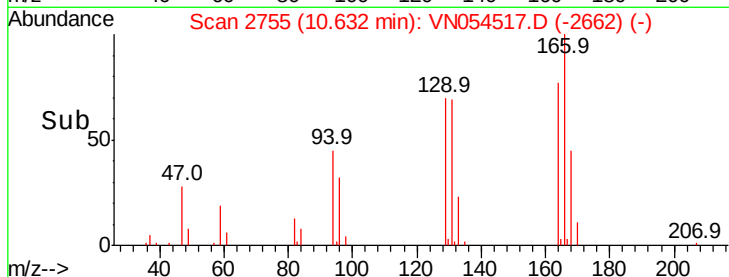


Abundance Ion 163.80 (163.50 to 164.50): V

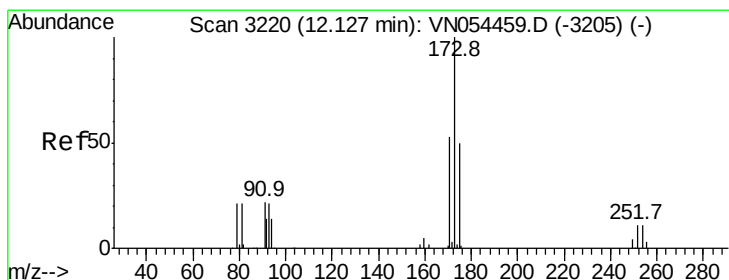
Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



Time-->



#71

Bromoform

Concen: 2.655 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN054517.D

Acq: 21 Mar 2019 18:00

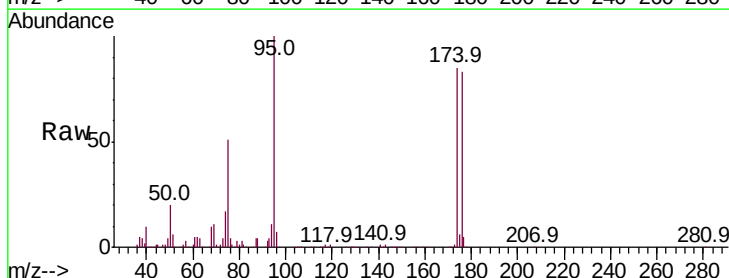
Tgt Ion:173 Resp: 2060

Ion Ratio Lower Upper

173 100

175 1132.1 24.4 73.2#

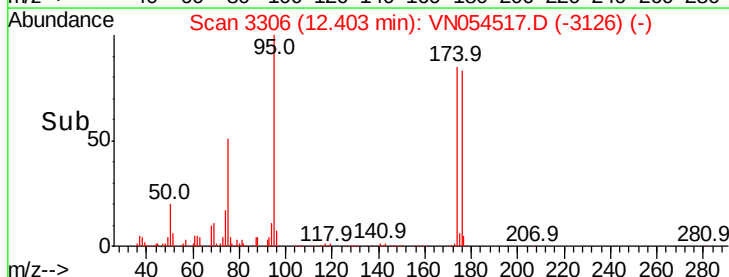
254 0.0 0.1 0.1#



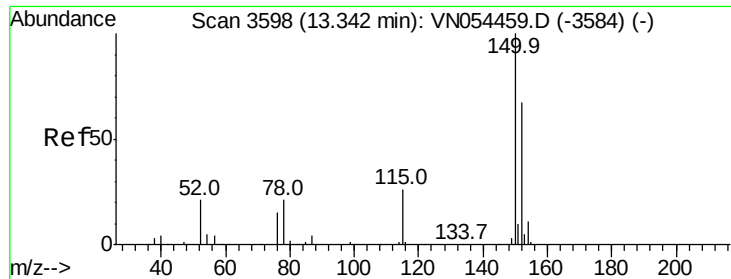
Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN054517.D

Acq: 21 Mar 2019 18:00

Instrument :

MSVOA_N

ClientSampleId :

BP-HN-MW24IR-20190315

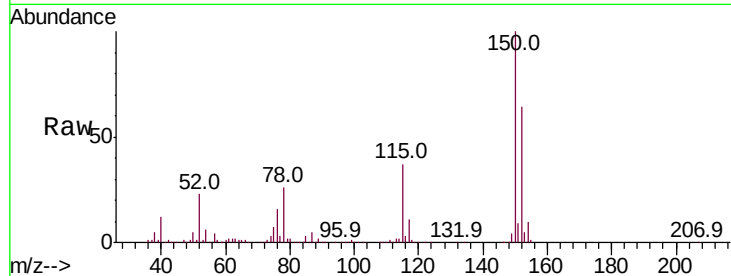
Tot Ion:152 Resp: 344453

Ion Ratio Lower Upper

152 100

115 57.7 27.2 81.6

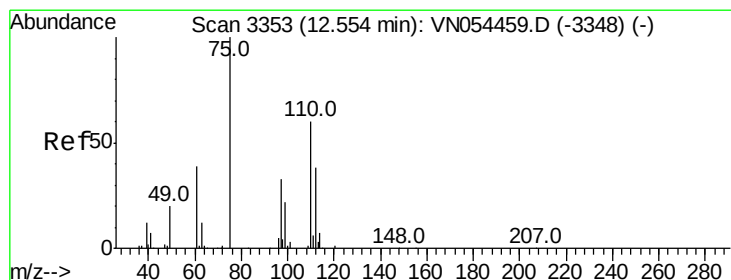
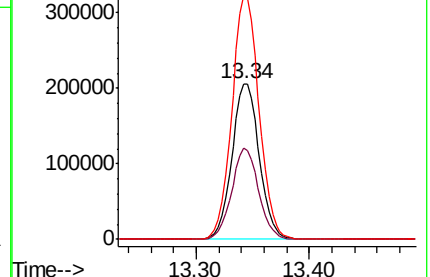
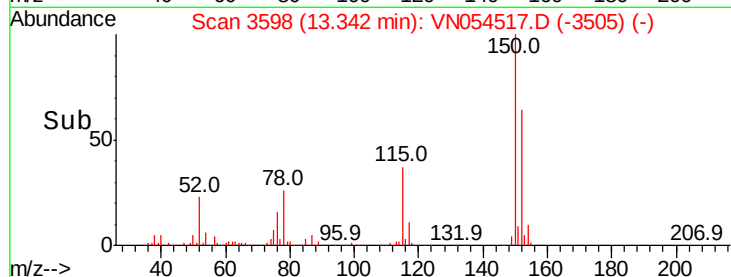
150 155.9 0.0 349.2



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: 39.776 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054517.D

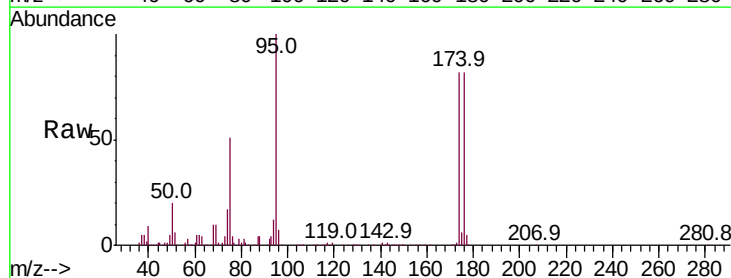
Acq: 21 Mar 2019 18:00

Tgt Ion: 75 Resp: 217413

Ion Ratio Lower Upper

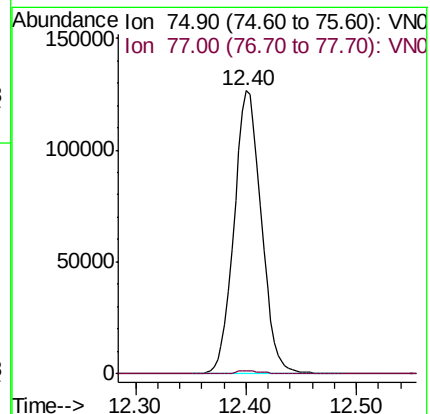
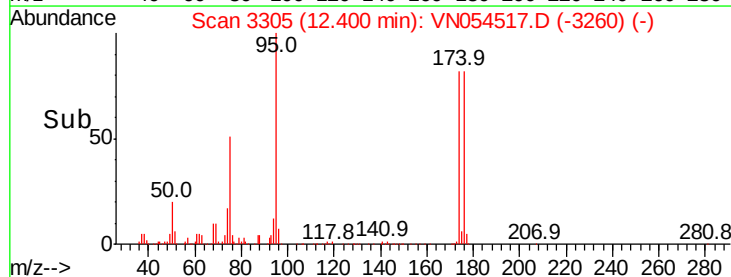
75 100

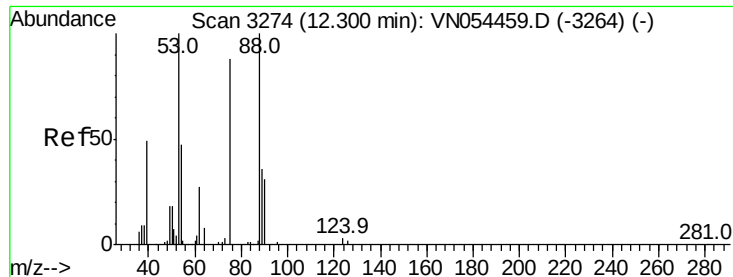
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 131.595 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054517.D

Acq: 21 Mar 2019 18:00

Instrument :

MSVOA_N

ClientSampleId :

BP-HN-MW24IR-20190315

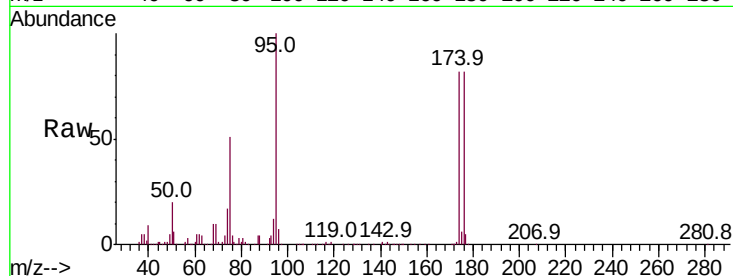
Tot Ion: 75 Resp: 217413

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN054459.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN054459.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN054459.D (-3264) (-)

12.40

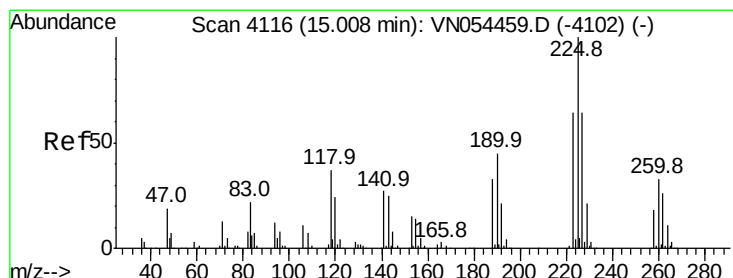
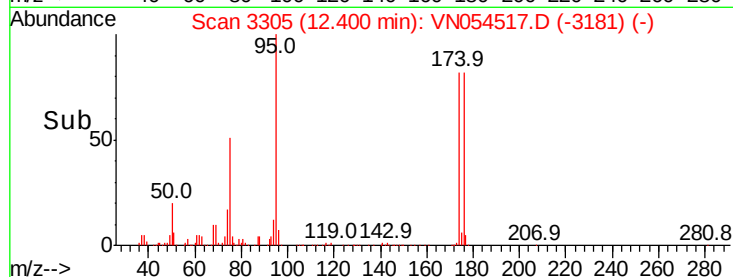
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.00 min Scan# 4115

Delta R.T. -0.00 min

Lab File: VN054517.D

Acq: 21 Mar 2019 18:00

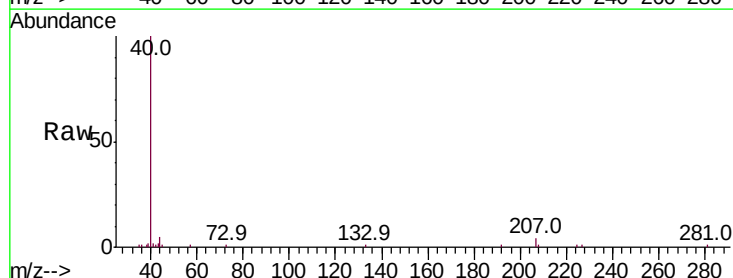
Tgt Ion: 225 Resp: 176

Ion Ratio Lower Upper

225 100

223 0.0 31.1 93.5#

227 69.9 31.9 95.9



Abundance Ion 224.70 (224.40 to 225.40): VN054459.D (-4102) (-)

Ion 222.70 (222.40 to 223.40): VN054459.D (-4102) (-)

Ion 226.70 (226.40 to 227.40): VN054459.D (-4102) (-)

15.00

300

200

100

0

Time--> 15.00 15.02

