

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100419\
 Data File : VN058545.D
 Acq On : 4 Oct 2019 16:53
 Operator : JC/SP
 Sample : K5169-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 04 23:40:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 30 08:07:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	502924	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	765638	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	649601	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	267286	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	347891	47.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.68%	
35) Dibromofluoromethane	7.57	113	241725	51.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.02%	
50) Toluene-d8	10.08	98	916268	49.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.68%	
62) 4-Bromofluorobenzene	12.41	95	304172	45.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.52%	

Target Compounds

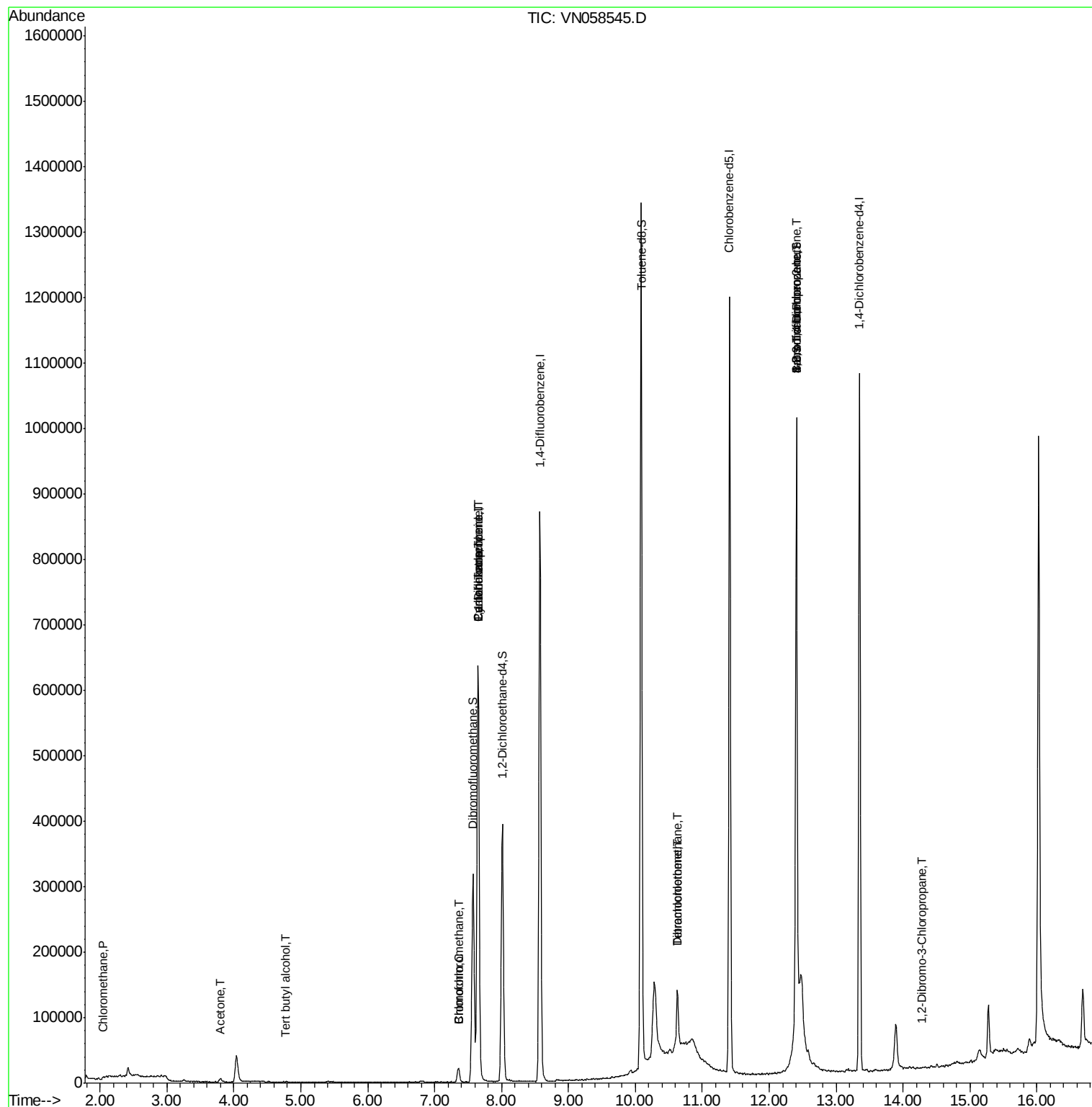
						Qvalue
3) Chloromethane	2.04	50	2077	0.343	ug/l	93
11) Tert butyl alcohol	4.77	59	514	0.630	ug/l #	71
16) Acetone	3.80	43	9197	3.671	ug/l	92
28) Bromochloromethane	7.35	49	2117	0.506	ug/l #	16
30) Chloroform	7.36	83	21277	2.008	ug/l	93
31) Cyclohexane	7.65	56	11814	1.162	ug/l #	11
36) 1,1-Dichloropropene	7.65	75	43344	5.920	ug/l #	50
38) Carbon Tetrachloride	7.65	117	51256	7.756	ug/l #	16
60) Dibromochloromethane	10.63	129	17603	3.005	ug/l #	11
64) Tetrachloroethene	10.63	164	18540	4.492	ug/l	92
71) Bromoform	12.41	173	2154	1.401	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	167994	34.411	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	167994	104.510	ug/l #	8
92) 1,2-Dibromo-3-Chloropropan	14.27	75	292	0.283	ug/l #	5

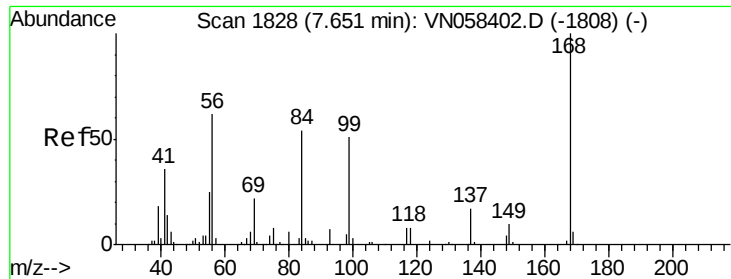
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058545.D

Acq: 4 Oct 2019 16:53

Instrument :

MSVOA_N

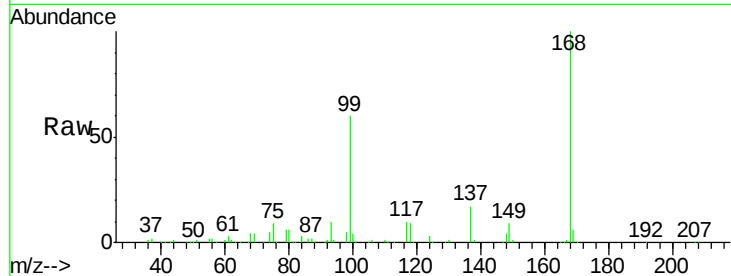
ClientSampleId :

Tot Ion:168 Resp: 502924

Ion Ratio Lower Upper

168 100

99 59.8 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

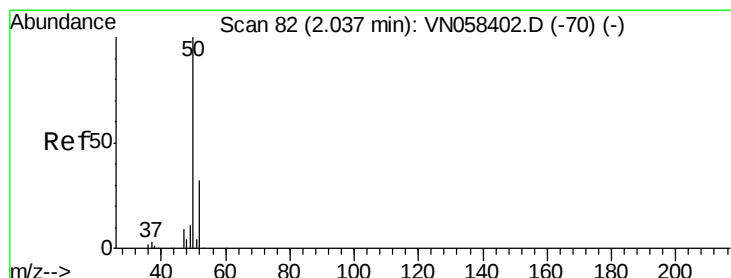
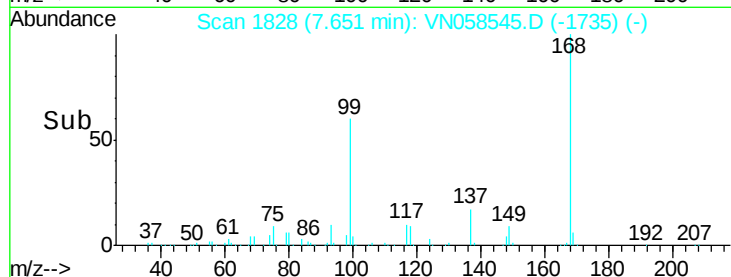
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.343 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.01 min

Lab File: VN058545.D

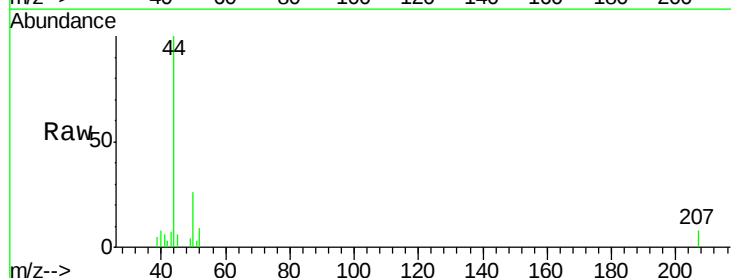
Acq: 4 Oct 2019 16:53

Tgt Ion: 50 Resp: 2077

Ion Ratio Lower Upper

50 100

52 36.4 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

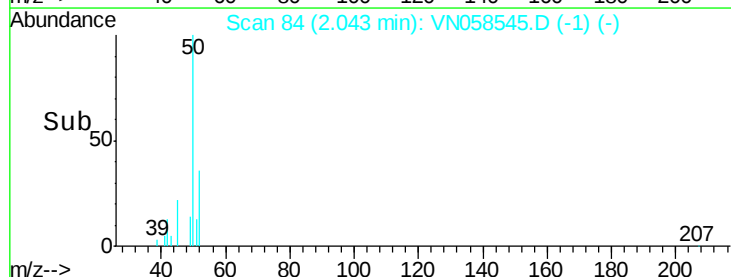
1500

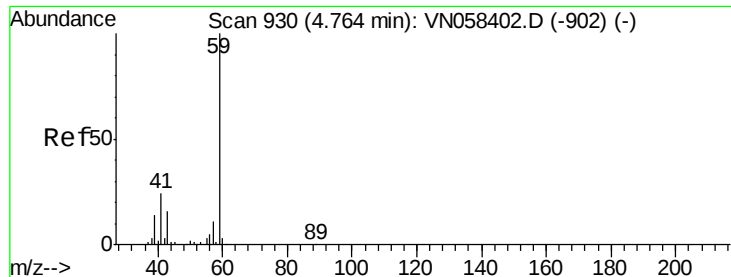
1000

500

0

Time-->



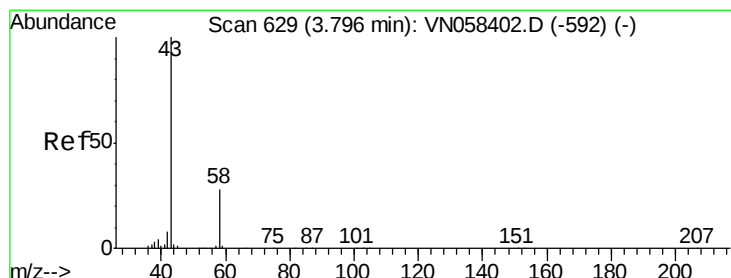
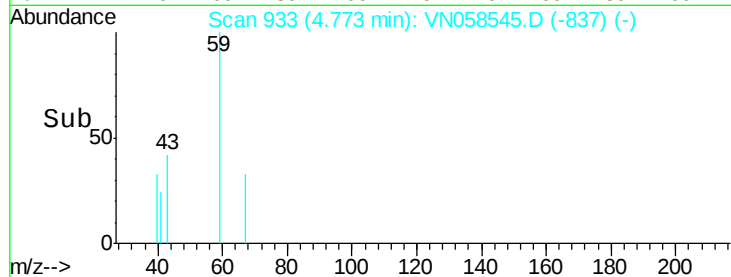
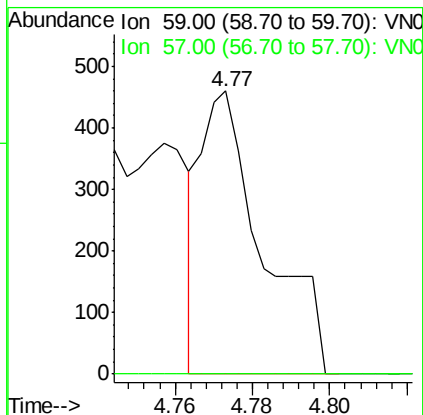
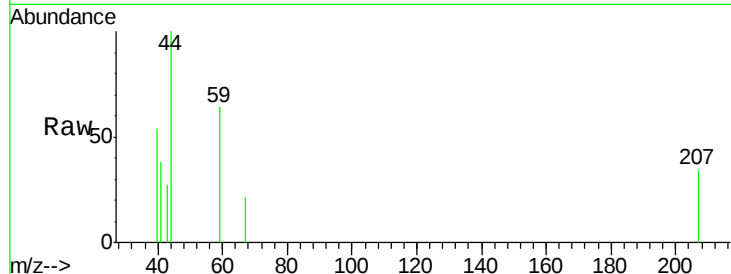


#11

Tert butyl alcohol
 Concen: 0.630 ug/l
 RT: 4.77 min Scan# 933
 Delta R.T. 0.01 min
 Lab File: VN058545.D
 Acq: 4 Oct 2019 16:53

Instrument :
 MSVOA_N
 ClientSampled :

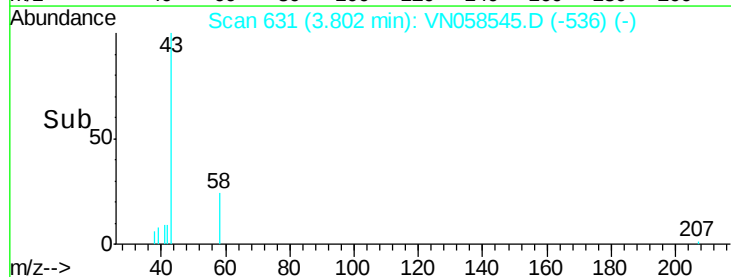
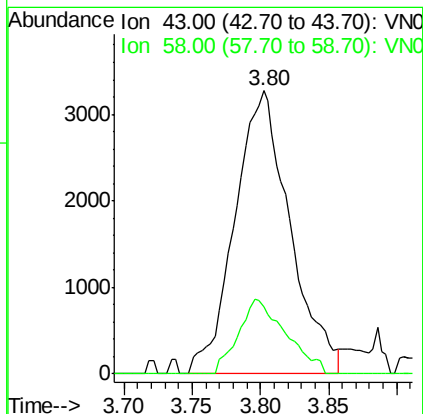
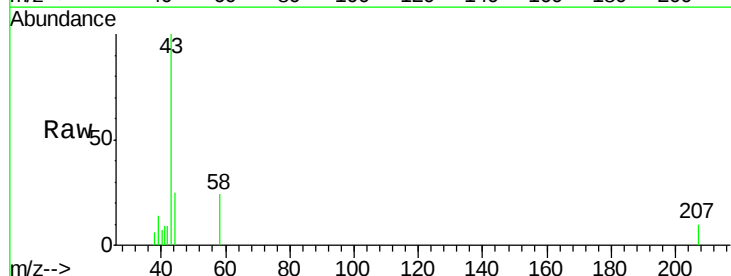
Tot Ion: 59 Resp: 514
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.4#

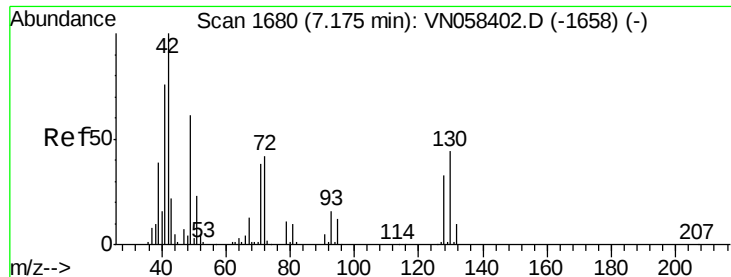


#16

Acetone
 Concen: 3.671 ug/l
 RT: 3.80 min Scan# 631
 Delta R.T. 0.01 min
 Lab File: VN058545.D
 Acq: 4 Oct 2019 16:53

Tgt Ion: 43 Resp: 9197
 Ion Ratio Lower Upper
 43 100
 58 23.7 22.4 33.6





#28

Bromochloromethane

Concen: 0.506 ug/l

RT: 7.35 min Scan# 1735

Delta R.T. 0.18 min

Lab File: VN058545.D

Acq: 4 Oct 2019 16:53

Instrument :

MSVOA_N

ClientSampled :

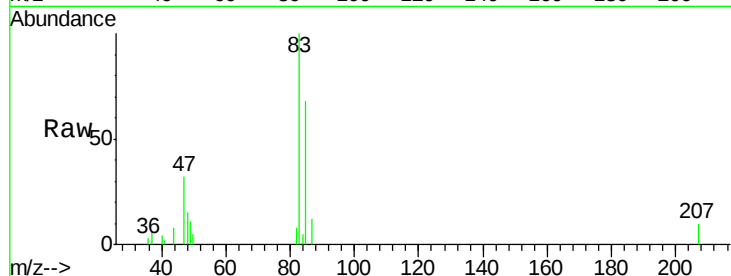
Tot Ion: 49 Resp: 2117

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.4

130 0.0 56.3 84.5#



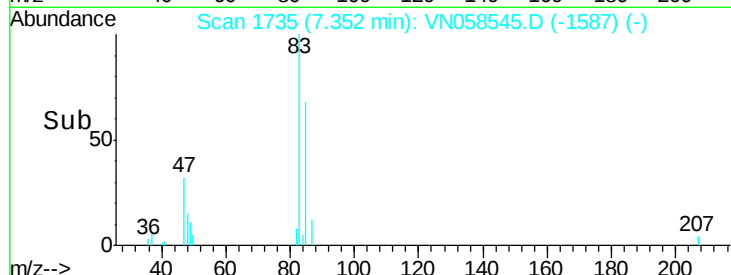
Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

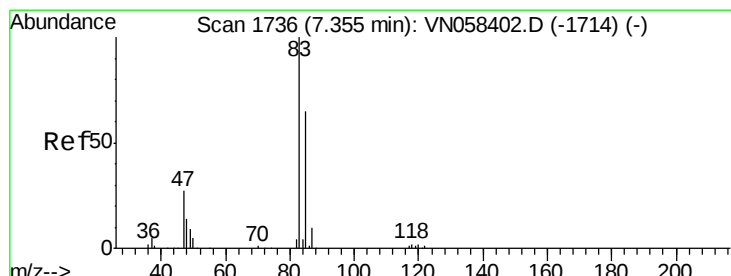
Ion 129.80 (129.50 to 130.50): V

7.35

Time-->



Time-->



#30

Chloroform

Concen: 2.008 ug/l

RT: 7.36 min Scan# 1737

Delta R.T. 0.00 min

Lab File: VN058545.D

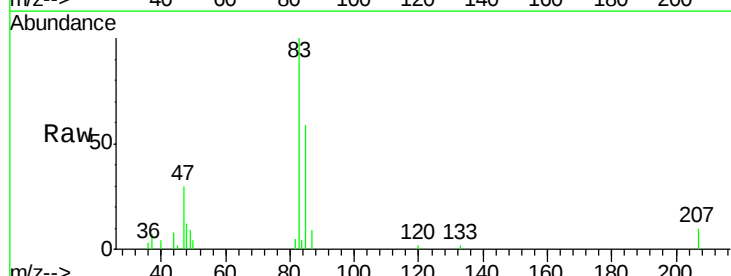
Acq: 4 Oct 2019 16:53

Tgt Ion: 83 Resp: 21277

Ion Ratio Lower Upper

83 100

85 59.2 52.0 78.0

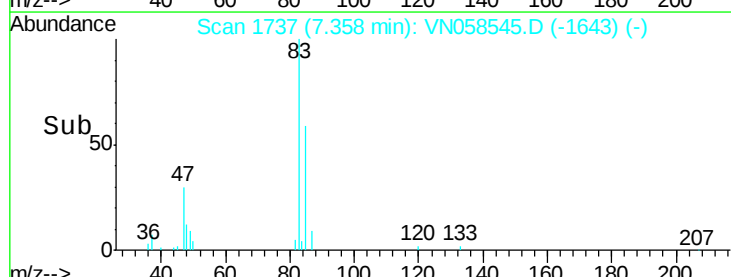


Abundance Ion 82.90 (82.60 to 83.60): VN0

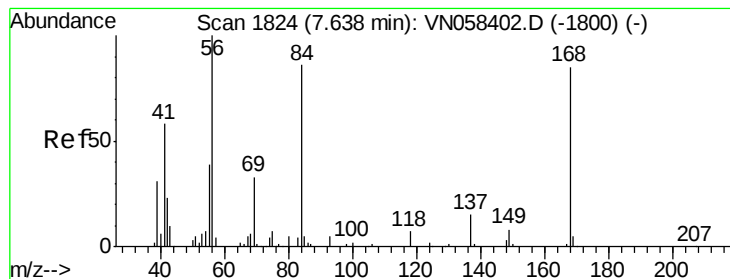
Ion 84.90 (84.60 to 85.60): VN0

7.36

Time-->



Time-->



#31

Cyclohexane

Concen: 1.162 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058545.D

Acq: 4 Oct 2019 16:53

Instrument :

MSVOA_N

ClientSampleId :

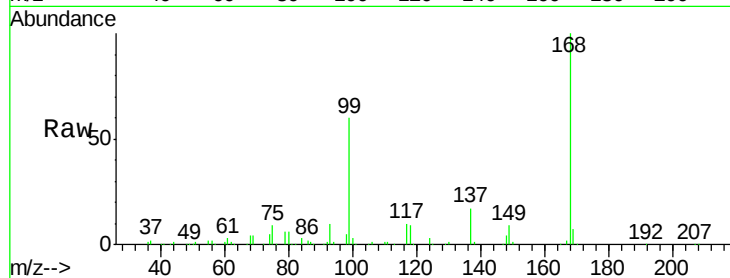
Tot Ion: 56 Resp: 11814

Ion Ratio Lower Upper

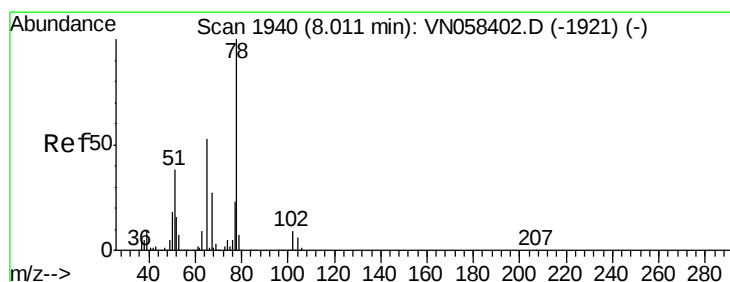
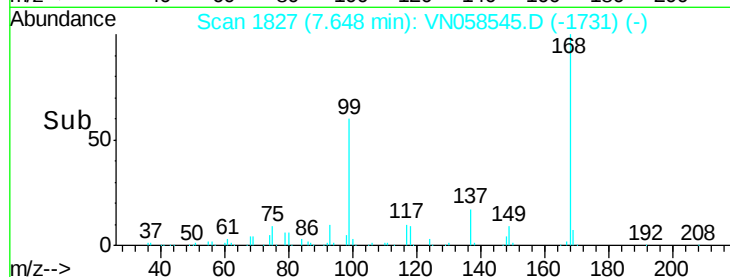
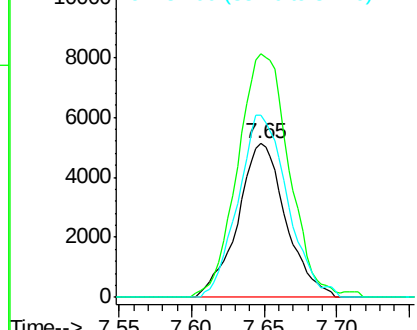
56 100

69 158.4 26.2 39.4#

84 118.7 67.6 101.4#



Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC



#33

1,2-Dichloroethane-d4

Concen: 47.336 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN058545.D

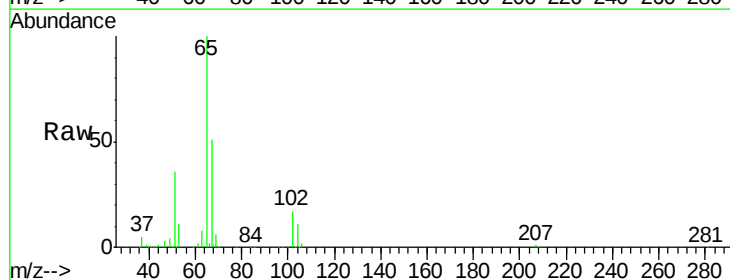
Acq: 4 Oct 2019 16:53

Tgt Ion: 65 Resp: 347891

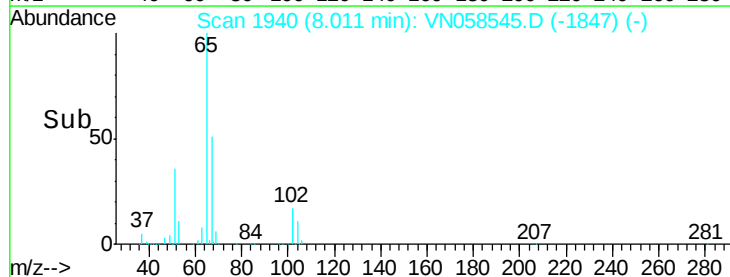
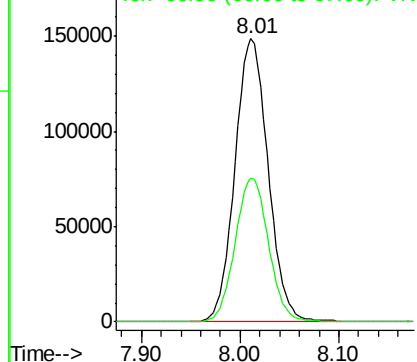
Ion Ratio Lower Upper

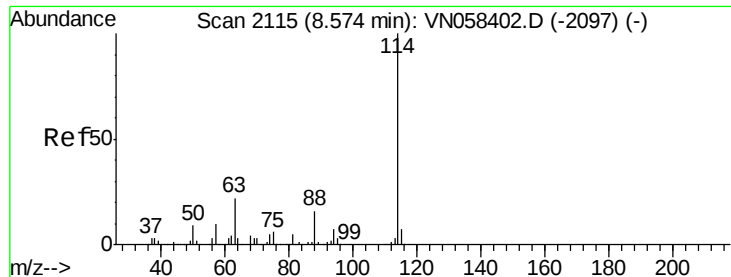
65 100

67 51.4 0.0 102.4



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. -0.00 min

Lab File: VN058545.D

Acq: 4 Oct 2019 16:53

Instrument :

MSVOA_N

ClientSampleId :

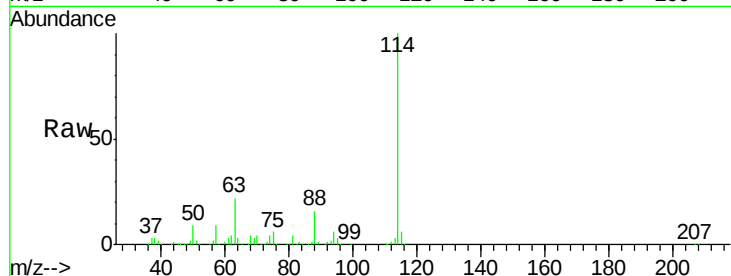
Tot Ion:114 Resp: 765638

Ion Ratio Lower Upper

114 100

63 22.3 0.0 45.0

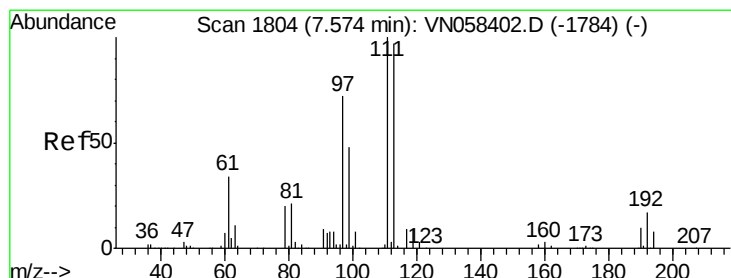
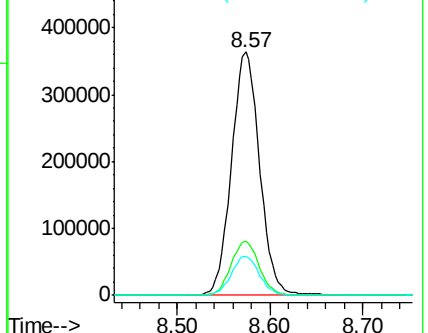
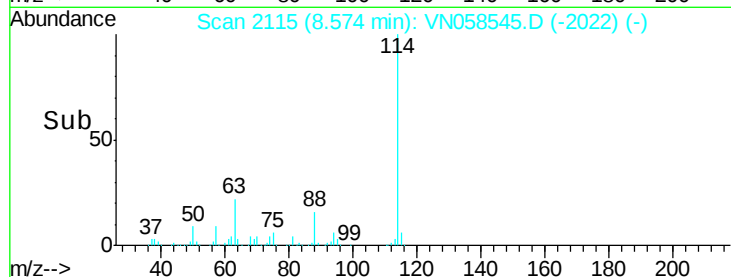
88 16.0 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 51.513 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. -0.00 min

Lab File: VN058545.D

Acq: 4 Oct 2019 16:53

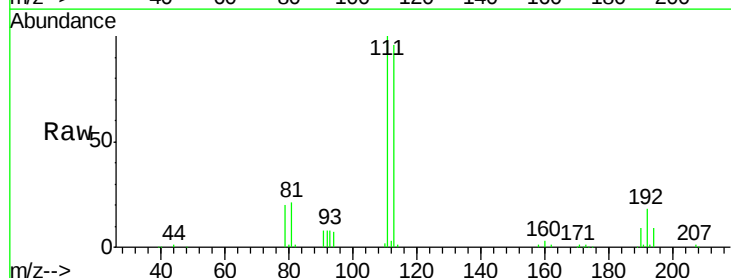
Tgt Ion:113 Resp: 241725

Ion Ratio Lower Upper

113 100

111 103.3 83.4 125.2

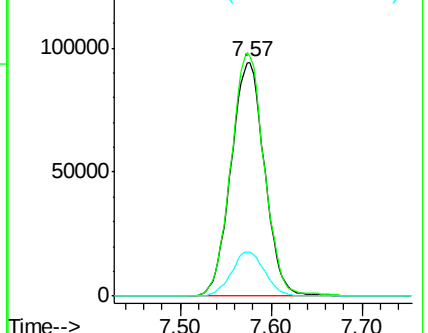
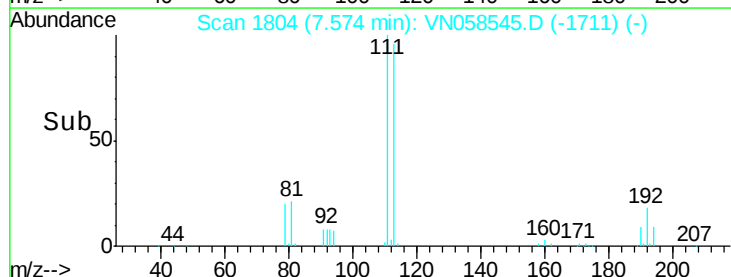
192 18.8 14.9 22.3

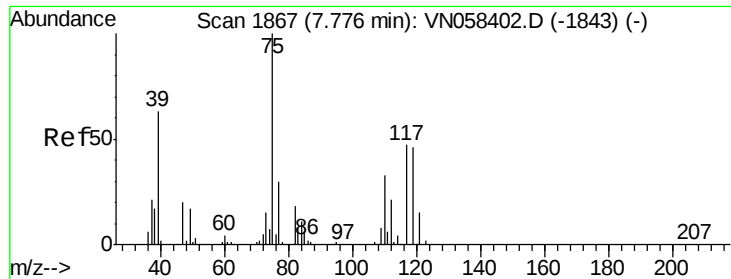


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.920 ug/l

RT: 7.65 min Scan# 1827

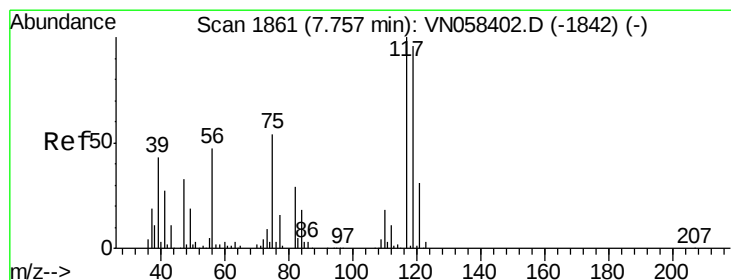
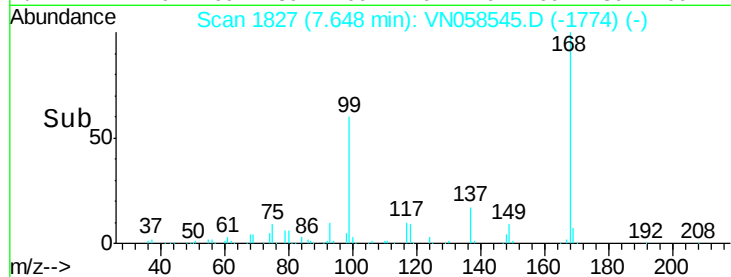
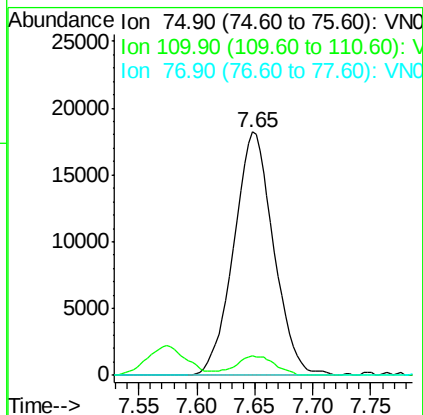
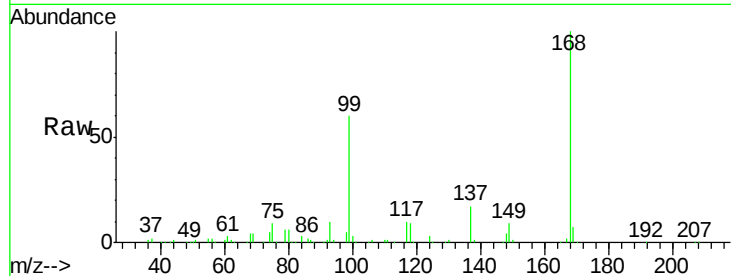
Delta R.T. -0.13 min

Lab File: VN058545.D

Acq: 4 Oct 2019 16:53

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 75 Resp: 43344
Ion Ratio Lower Upper
75 100
110 7.9 16.4 49.2#
77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 7.756 ug/l

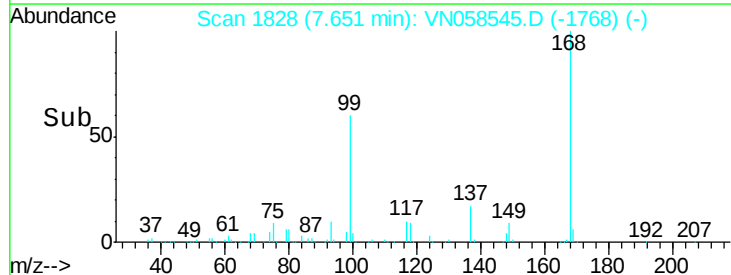
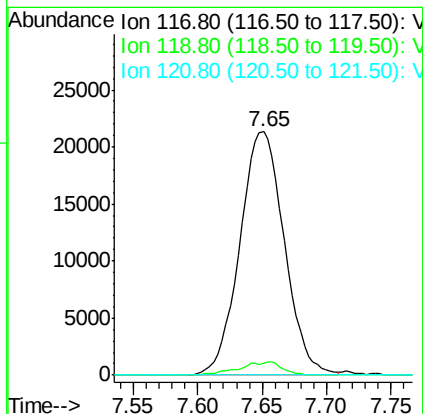
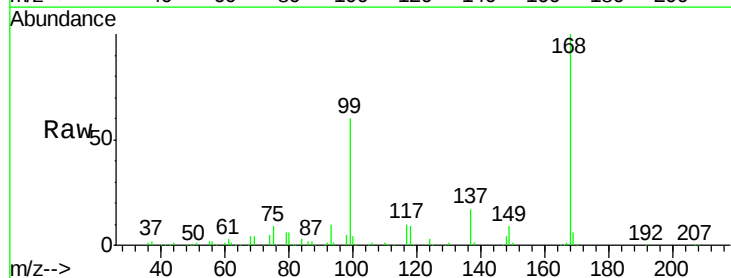
RT: 7.65 min Scan# 1828

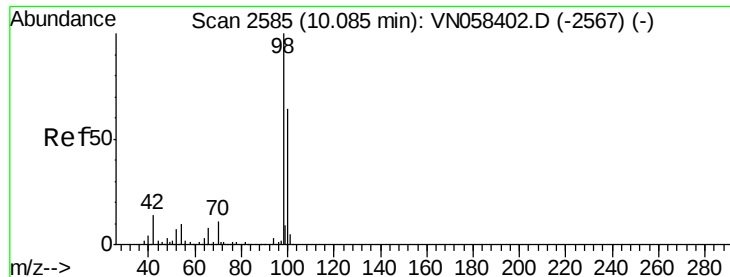
Delta R.T. -0.11 min

Lab File: VN058545.D

Acq: 4 Oct 2019 16:53

Tgt Ion: 117 Resp: 51256
Ion Ratio Lower Upper
117 100
119 4.8 76.6 115.0#
121 0.0 24.7 37.1#





#50

Toluene-d8

Concen: 49.844 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058545.D

Acq: 4 Oct 2019 16:53

Instrument :

MSVOA_N

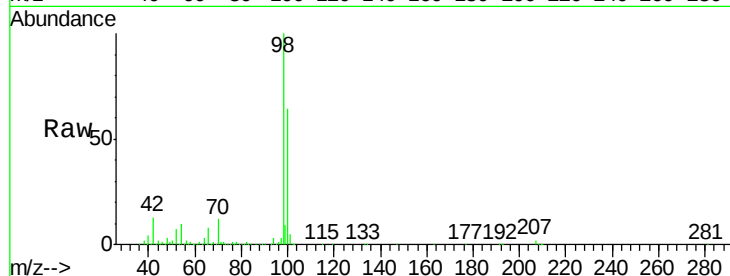
ClientSampleId :

Tot Ion: 98 Resp: 916268

Ion Ratio Lower Upper

98 100

100 63.3 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN058402.D (-2567) (-)

Ion 100.00 (99.70 to 100.70): VN058402.D (-2567) (-)

10.08

500000

400000

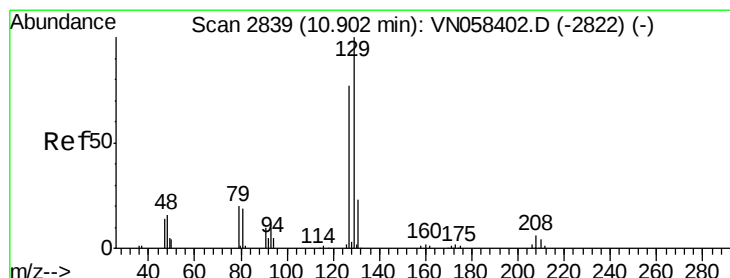
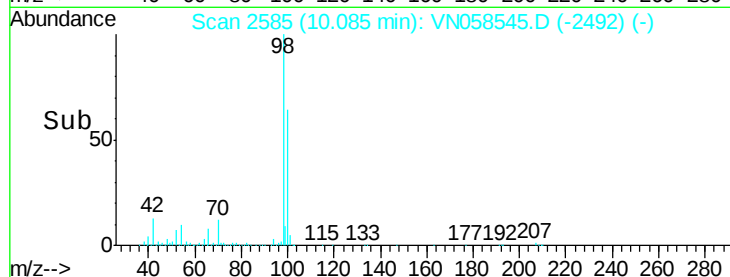
300000

200000

100000

0

Time-->



#60

Dibromochloromethane

Concen: 3.005 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN058545.D

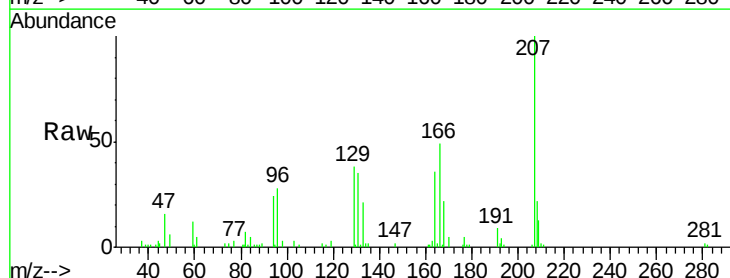
Acq: 4 Oct 2019 16:53

Tgt Ion: 129 Resp: 17603

Ion Ratio Lower Upper

129 100

127 0.0 38.3 114.8#



Abundance Ion 128.80 (128.50 to 129.50): VN058402.D (-2822) (-)

Ion 126.80 (126.50 to 127.50): VN058402.D (-2822) (-)

10.63

12000

10000

8000

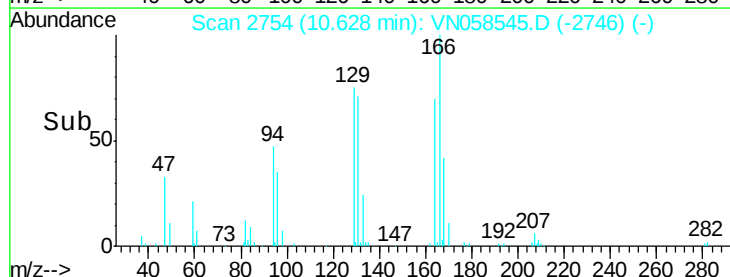
6000

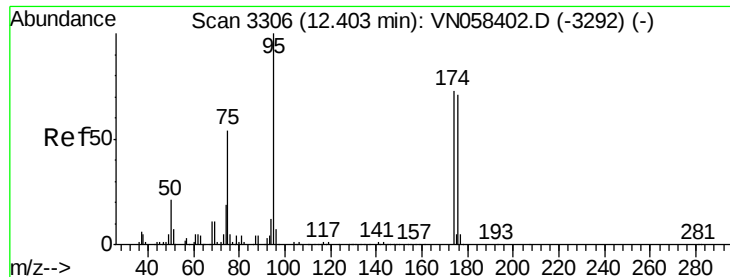
4000

2000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 45.762 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058545.D

Acq: 4 Oct 2019 16:53

Instrument :

MSVOA_N

ClientSampleId :

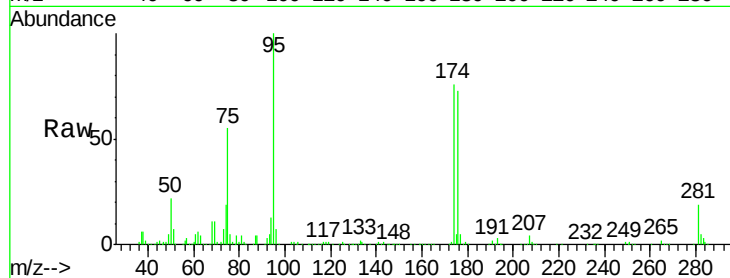
Tot Ion: 95 Resp: 304172

Ion Ratio Lower Upper

95 100

174 74.9 0.0 150.6

176 72.8 0.0 146.2

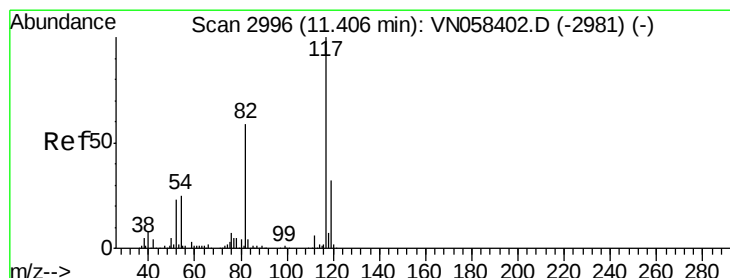
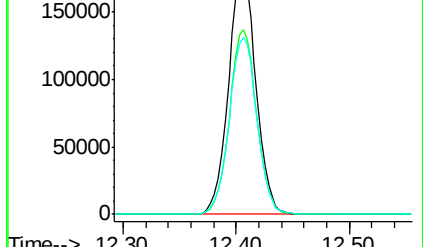
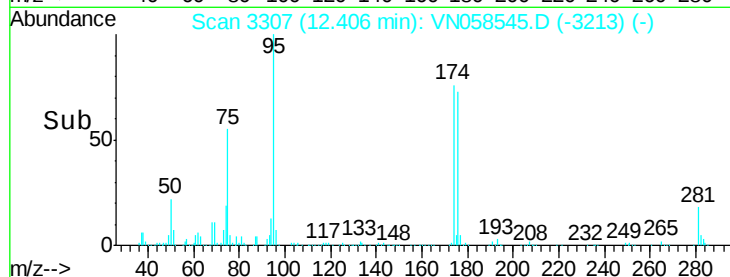


Abundance Ion 94.90 (94.60 to 95.60): VN058402.D (-3292) (-)

Ion 173.80 (173.50 to 174.50): VN058402.D (-3292) (-)

Ion 175.80 (175.50 to 176.50): VN058402.D (-3292) (-)

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN058545.D

Acq: 4 Oct 2019 16:53

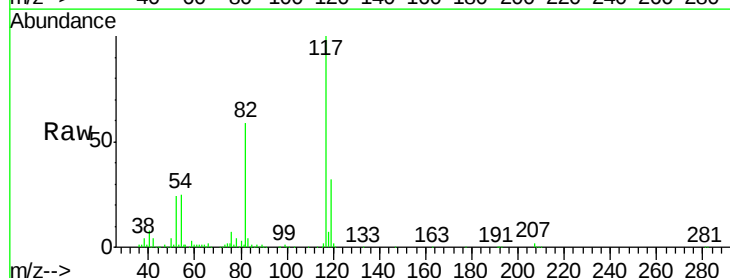
Tgt Ion: 117 Resp: 649601

Ion Ratio Lower Upper

117 100

82 58.6 47.4 71.0

119 31.8 25.5 38.3

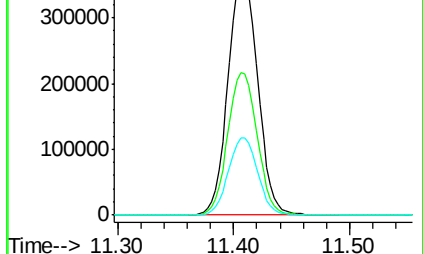
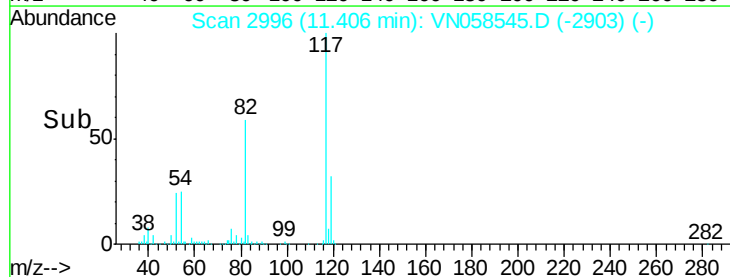


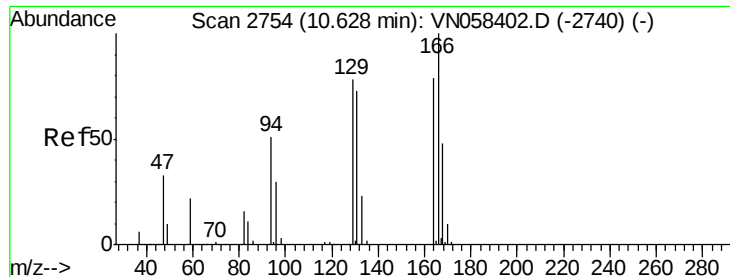
Abundance Ion 116.90 (116.60 to 117.60): VN058402.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN058402.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN058402.D (-2981) (-)

Time--> 11.30 11.40 11.50





#64

Tetrachloroethene

Concen: 4.492 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.00 min

Lab File: VN058545.D

Acq: 4 Oct 2019 16:53

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:164 Resp: 18540

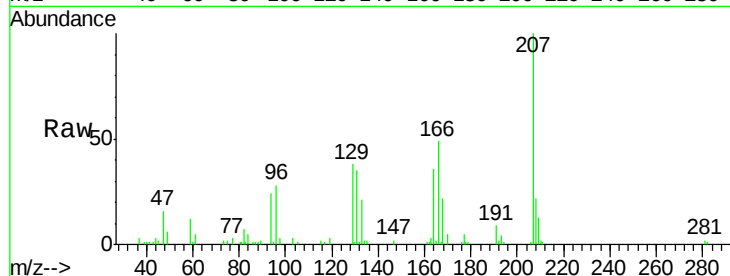
Ion Ratio Lower Upper

164 100

166 137.0 101.1 151.7

129 106.1 79.2 118.8

131 98.7 74.1 111.1

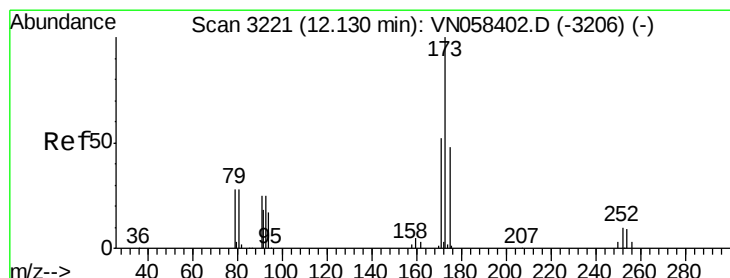
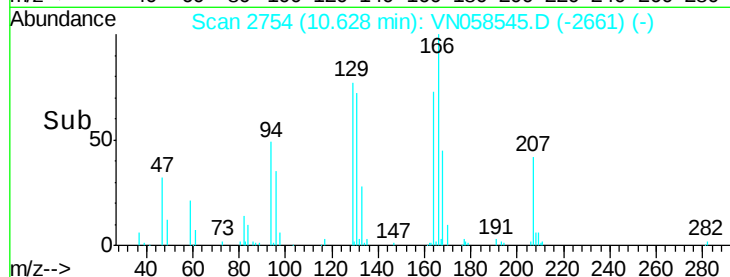
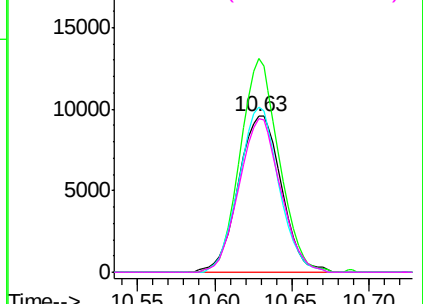


Abundance Ion 163.80 (163.50 to 164.50): V

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



#71

Bromoform

Concen: 1.401 ug/l

RT: 12.41 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN058545.D

Acq: 4 Oct 2019 16:53

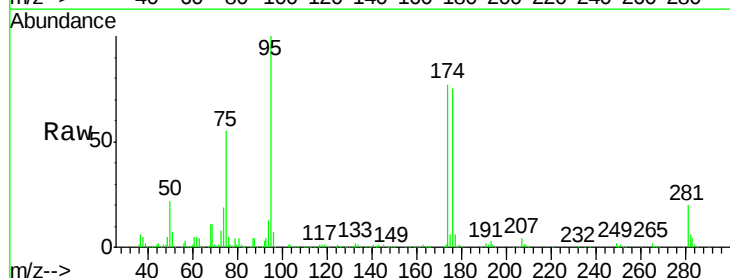
Tgt Ion:173 Resp: 2154

Ion Ratio Lower Upper

173 100

175 659.4 24.3 73.0#

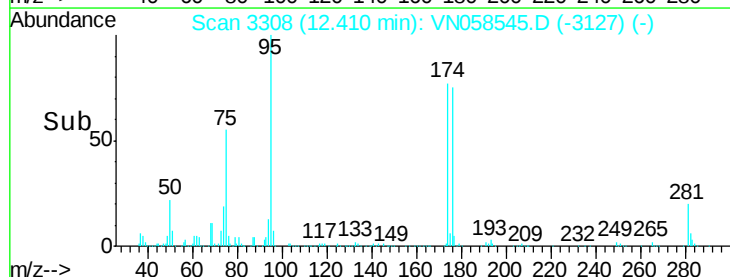
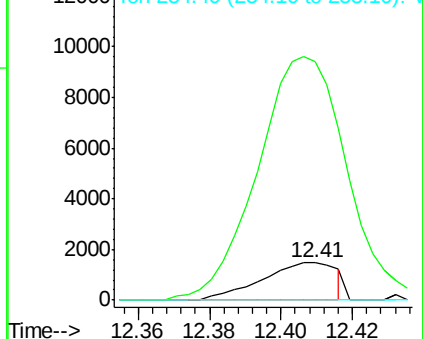
254 0.0 0.1 0.1#

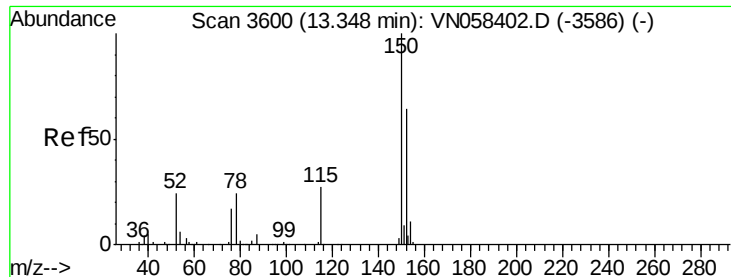


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN058545.D

Acq: 4 Oct 2019 16:53

Instrument :

MSVOA_N

ClientSampleId :

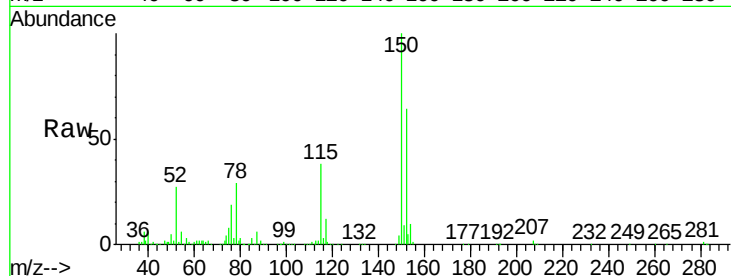
Tot Ion:152 Resp: 267286

Ion Ratio Lower Upper

152 100

115 60.9 30.0 90.0

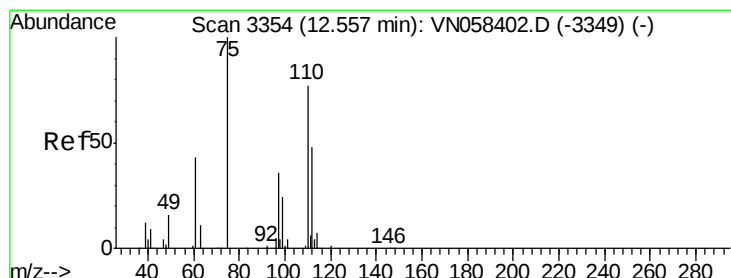
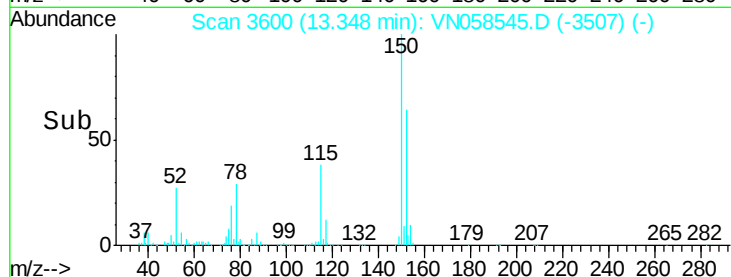
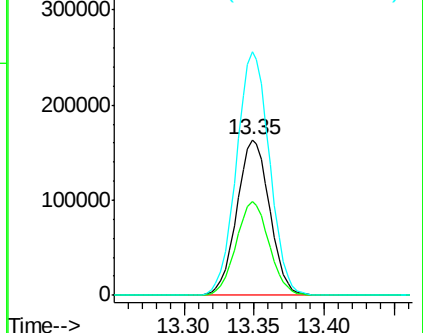
150 157.8 0.0 348.2



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: 34.411 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058545.D

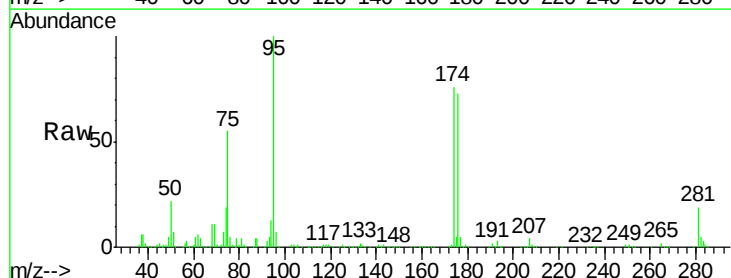
Acq: 4 Oct 2019 16:53

Tgt Ion: 75 Resp: 167994

Ion Ratio Lower Upper

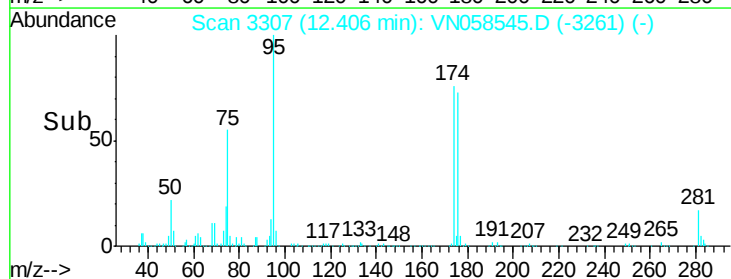
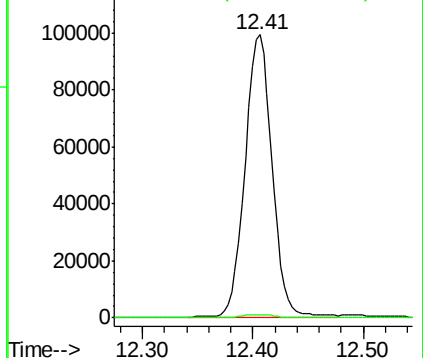
75 100

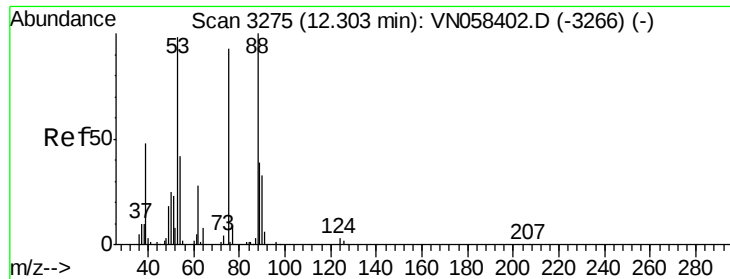
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

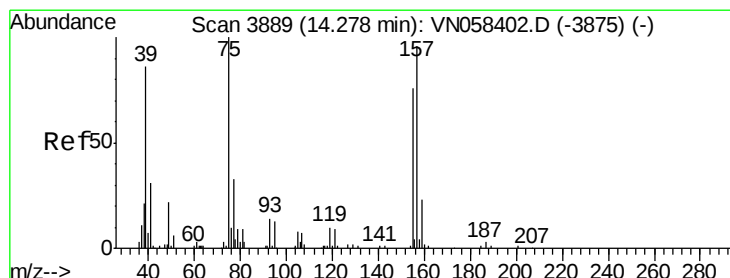
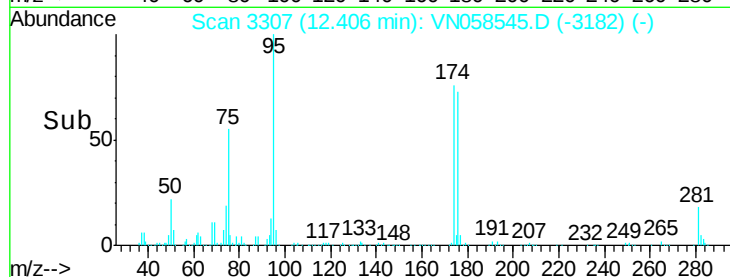
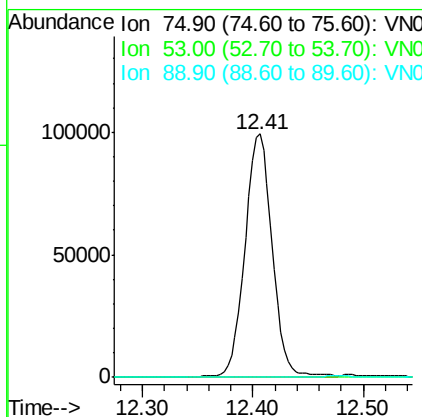
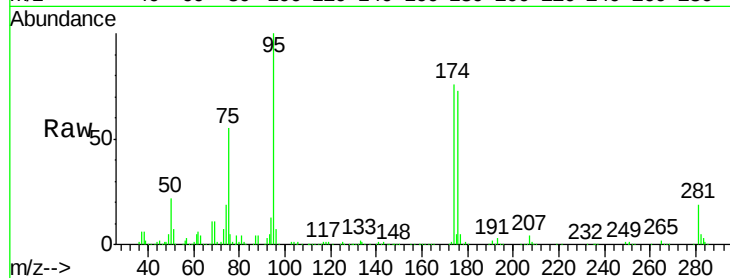




#81
trans-1,4-Dichloro-2-butene
Concen: 104.510 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.10 min
Lab File: VN058545.D
Acq: 4 Oct 2019 16:53

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 75 Resp: 167994
Ion Ratio Lower Upper
75 100
53 0.0 85.4 128.0#
89 0.3 35.0 52.4#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.283 ug/l
RT: 14.27 min Scan# 3888
Delta R.T. -0.00 min
Lab File: VN058545.D
Acq: 4 Oct 2019 16:53

Tgt Ion: 75 Resp: 292
Ion Ratio Lower Upper
75 100
155 0.0 39.2 117.6#
157 0.0 48.7 146.1#

