

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100419\
 Data File : VN058548.D
 Acq On : 4 Oct 2019 17:59
 Operator : JC/SP
 Sample : K5169-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 04 23:40:43 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	471082	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	754063	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	608245	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	248737	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	332017	48.23	ug/l	0.00
Spiked Amount			Recovery	=	96.46%	
35) Dibromofluoromethane	7.57	113	234623	50.77	ug/l	0.00
Spiked Amount			Recovery	=	101.54%	
50) Toluene-d8	10.09	98	881885	48.71	ug/l	0.00
Spiked Amount			Recovery	=	97.42%	
62) 4-Bromofluorobenzene	12.41	95	288440	44.06	ug/l	0.00
Spiked Amount			Recovery	=	88.12%	

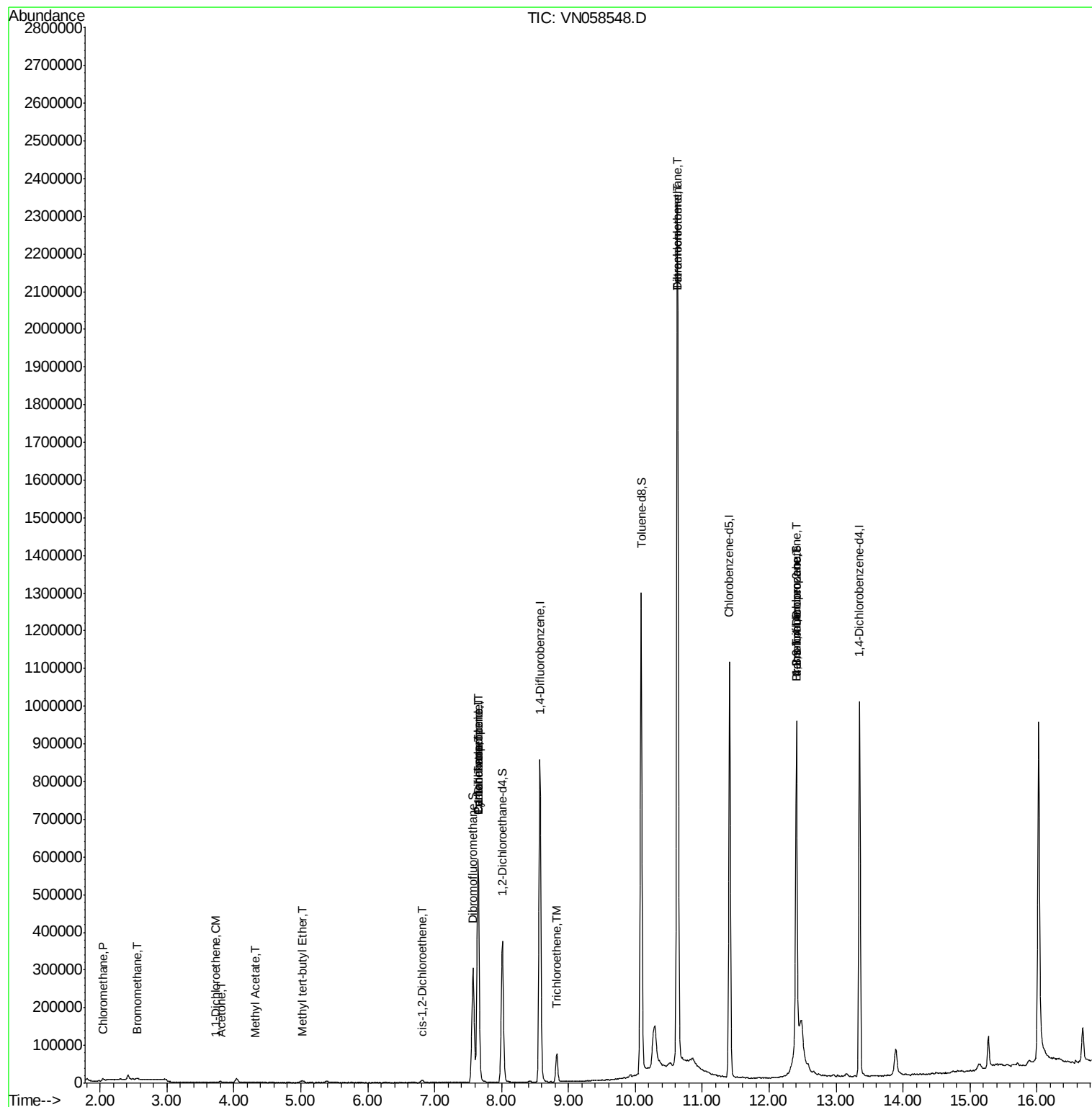
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	3909	0.688	ug/l	96
5) Bromomethane	2.56	94	671	0.227	ug/l	95
12) 1,1-Dichloroethene	3.72	96	1097	0.247	ug/l #	51
16) Acetone	3.80	43	4986	2.125	ug/l	96
18) Methyl Acetate	4.32	43	2263	0.383	ug/l #	56
19) Methyl tert-butyl Ether	5.02	73	8661	0.552	ug/l	94
27) cis-1,2-Dichloroethene	6.81	96	3633	0.629	ug/l	81
31) Cyclohexane	7.65	56	10953	1.150	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	39495	5.478	ug/l #	50
38) Carbon Tetrachloride	7.65	117	47399	7.283	ug/l #	16
44) Trichloroethene	8.82	130	26688	5.215	ug/l	99
60) Dibromochloromethane	10.63	129	465988	95.234	ug/l #	11
64) Tetrachloroethene	10.63	164	501845	129.864	ug/l	98
71) Bromoform	12.39	173	424	0.843	ug/l #	29
76) 1,2,3-Trichloropropane	12.41	75	156250	34.392	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	156250	104.453	ug/l #	7

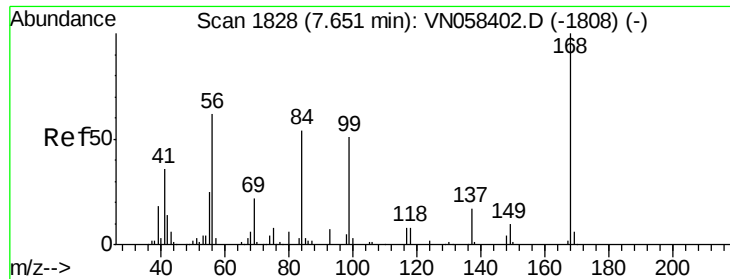
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058548.D

Acq: 4 Oct 2019 17:59

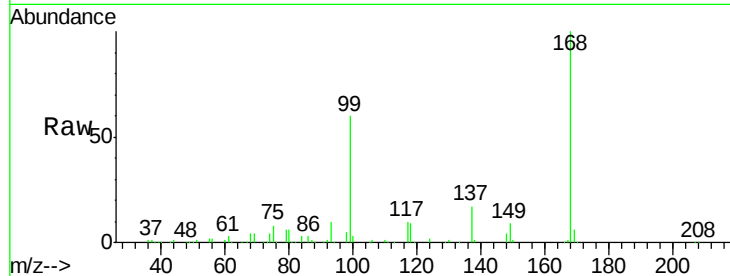
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 471082

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

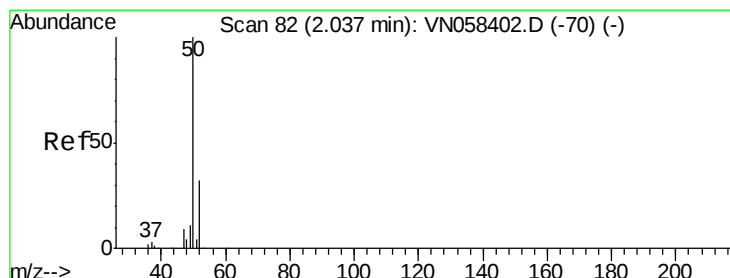
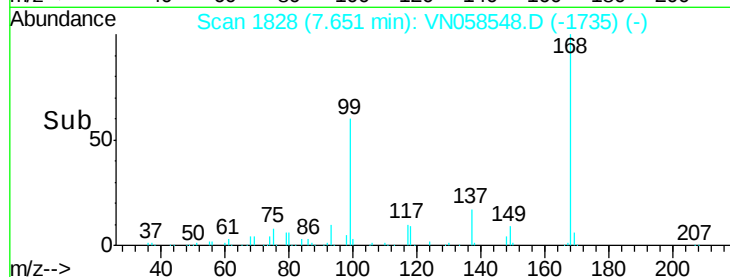
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: 0.688 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058548.D

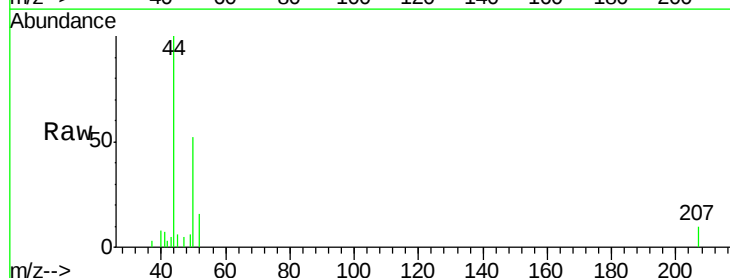
Acq: 4 Oct 2019 17:59

Tgt Ion: 50 Resp: 3909

Ion Ratio Lower Upper

50 100

52 30.1 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

3000

2500

2000

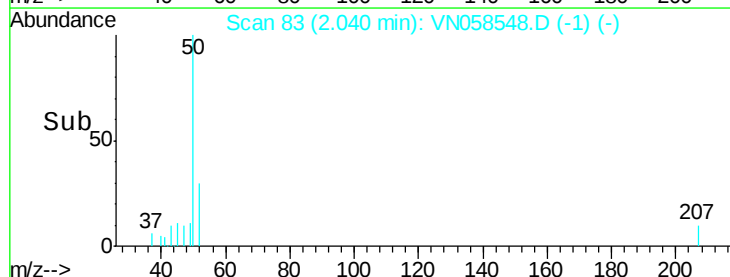
1500

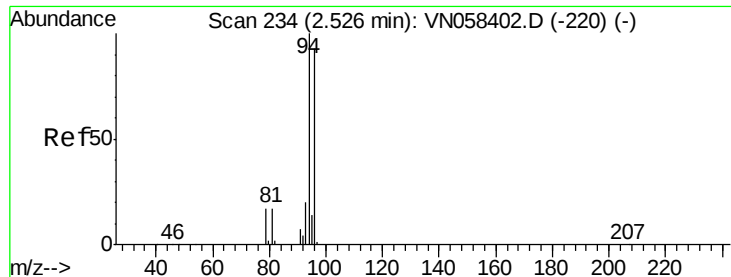
1000

500

0

Time--> 2.00 2.05 2.10





#5

Bromomethane

Concen: 0.227 ug/l

RT: 2.56 min Scan# 245

Delta R.T. 0.04 min

Lab File: VN058548.D

Acq: 4 Oct 2019 17:59

Instrument :

MSVOA_N

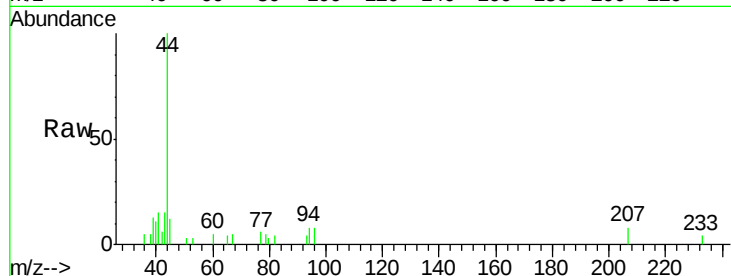
ClientSampled :

Tot Ion: 94 Resp: 671

Ion Ratio Lower Upper

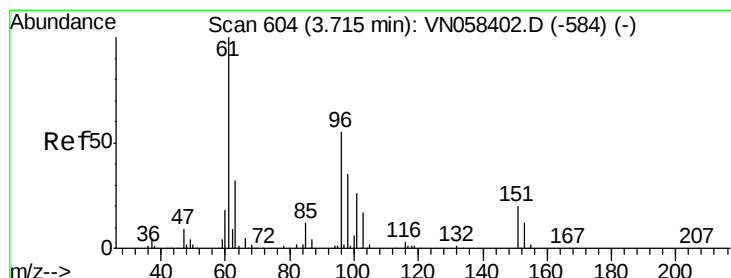
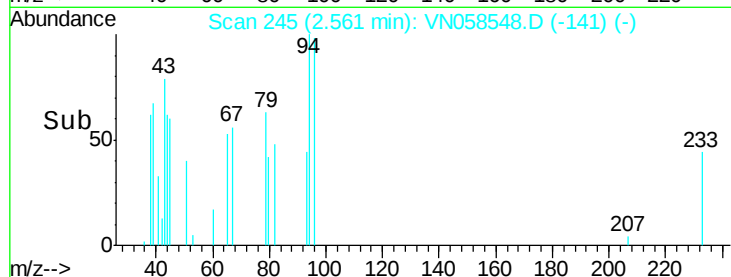
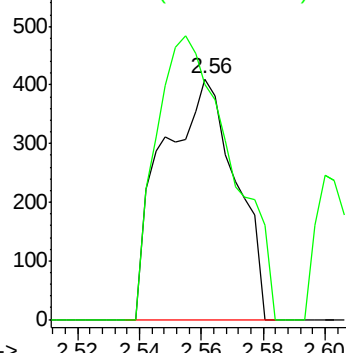
94 100

96 98.0 74.8 112.2



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#12

1,1-Dichloroethene

Concen: 0.247 ug/l

RT: 3.72 min Scan# 606

Delta R.T. 0.01 min

Lab File: VN058548.D

Acq: 4 Oct 2019 17:59

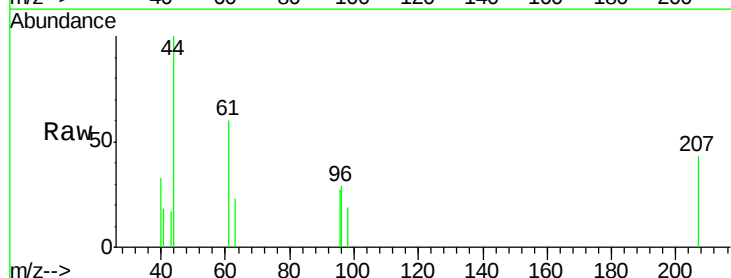
Tgt Ion: 96 Resp: 1097

Ion Ratio Lower Upper

96 100

61 107.6 146.7 220.1#

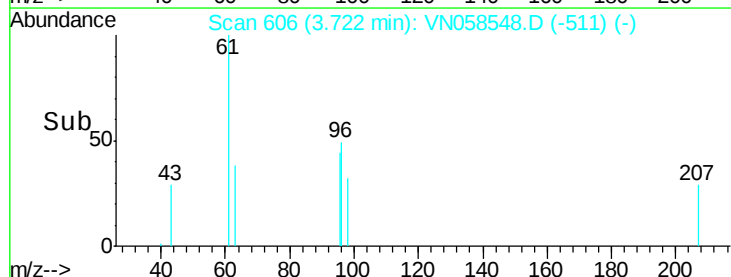
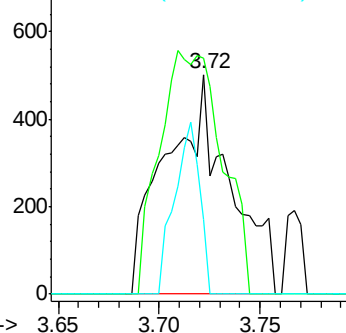
98 34.1 51.3 76.9#

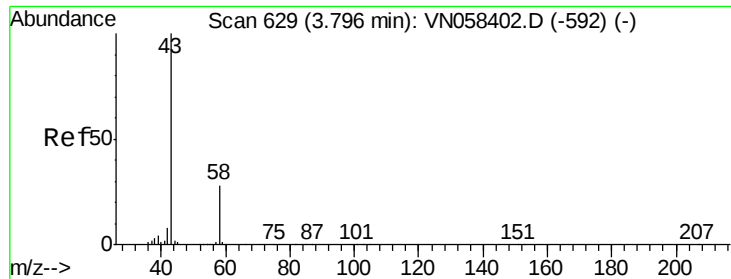


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

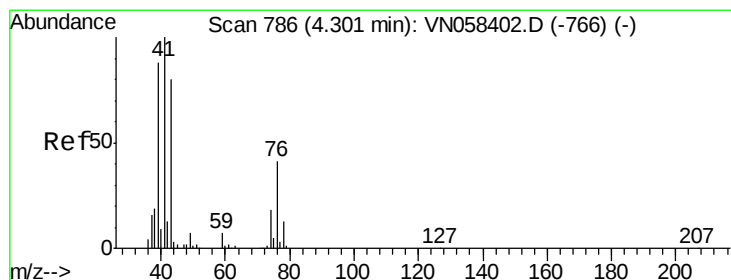
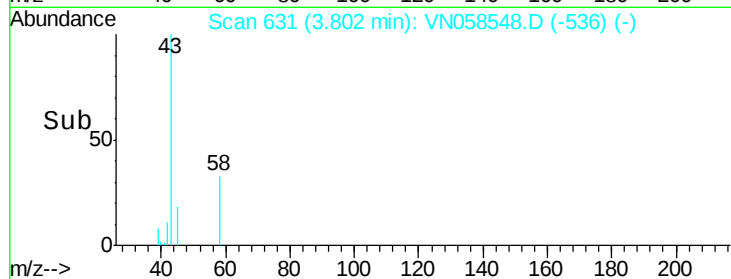
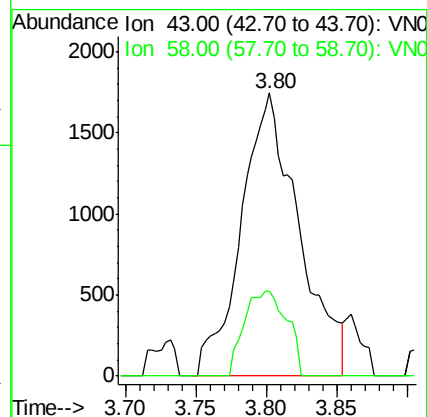
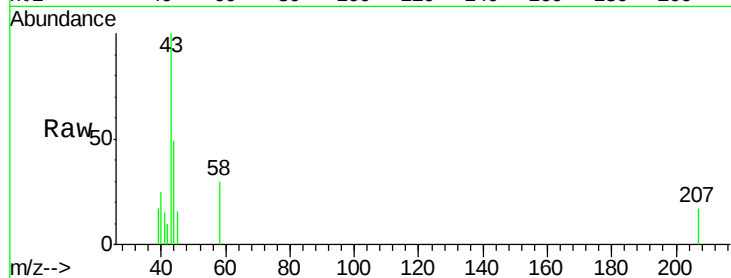




#16
Acetone
Concen: 2.125 ug/l
RT: 3.80 min Scan# 631
Delta R.T. 0.01 min
Lab File: VN058548.D
Acq: 4 Oct 2019 17:59

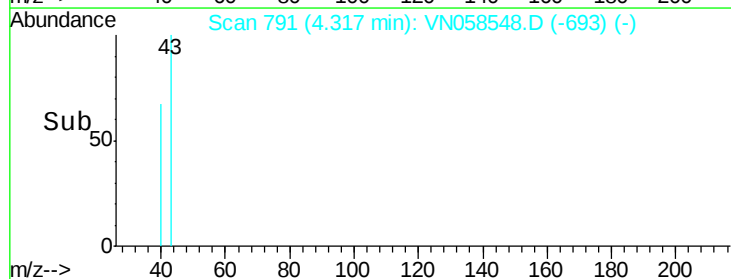
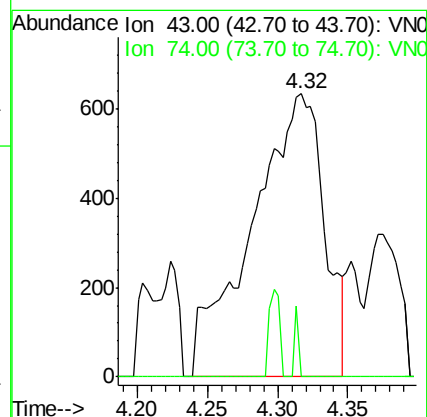
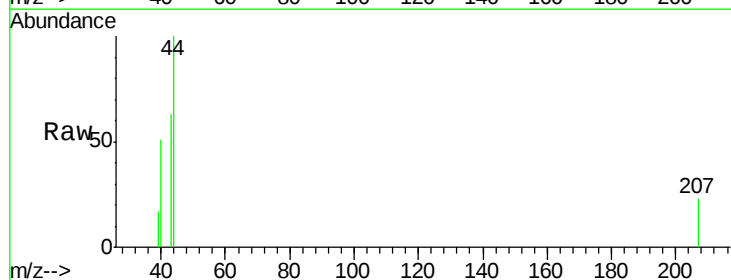
Instrument :
MSVOA_N
ClientSampled :

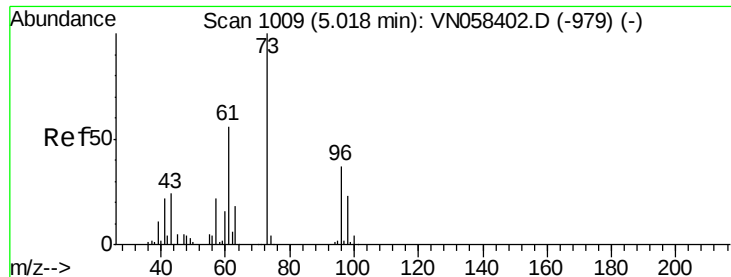
Tot Ion: 43 Resp: 4986
Ion Ratio Lower Upper
43 100
58 30.2 22.4 33.6



#18
Methyl Acetate
Concen: 0.383 ug/l
RT: 4.32 min Scan# 791
Delta R.T. 0.02 min
Lab File: VN058548.D
Acq: 4 Oct 2019 17:59

Tgt Ion: 43 Resp: 2263
Ion Ratio Lower Upper
43 100
74 1.4 18.0 27.0#

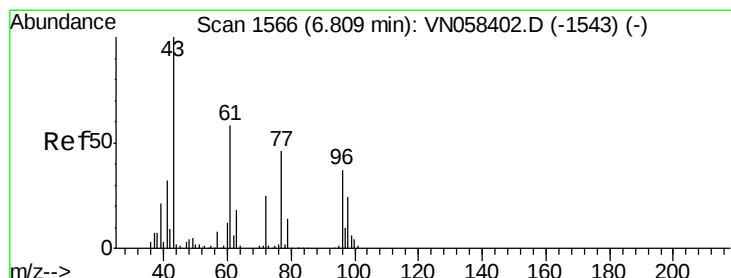
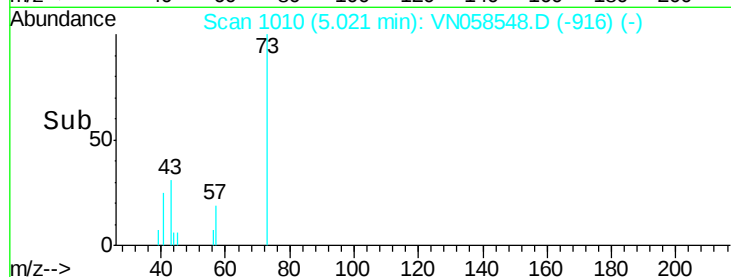
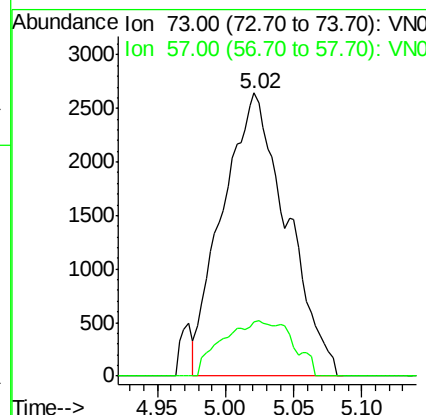
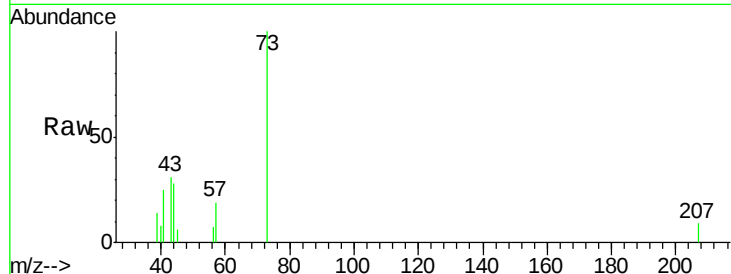




#19
Methvl tert-butvl Ether
Concen: 0.552 ug/l
RT: 5.02 min Scan# 1010
Delta R.T. 0.00 min
Lab File: VN058548.D
Acq: 4 Oct 2019 17:59

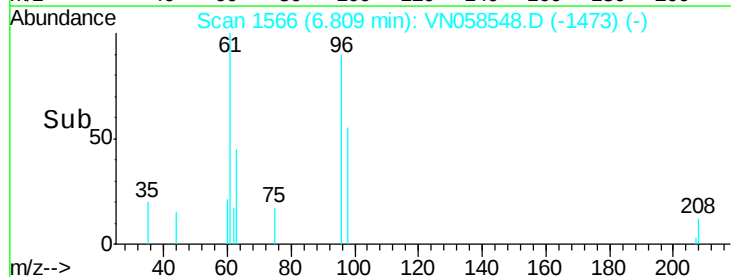
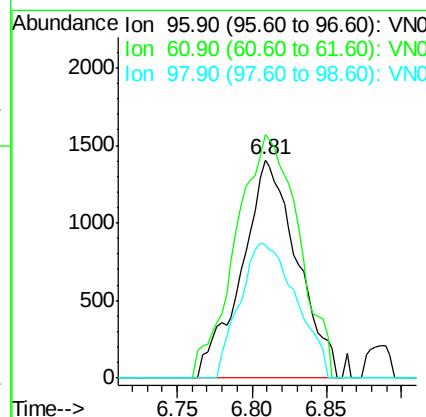
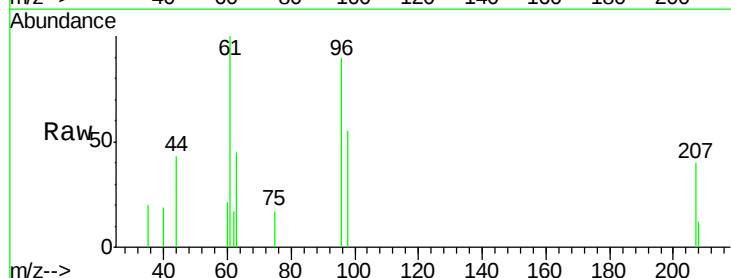
Instrument :
MSVOA_N
ClientSampled :

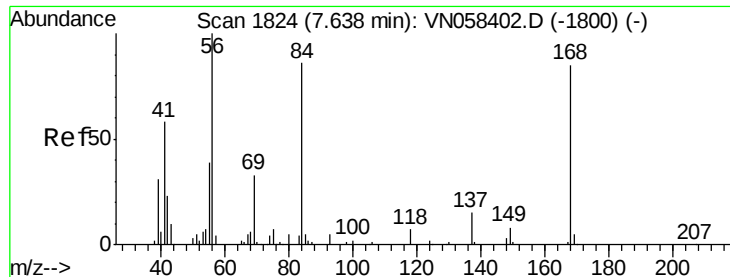
Tot Ion: 73 Resp: 8661
Ion Ratio Lower Upper
73 100
57 19.1 17.6 26.4



#27
cis-1,2-Dichloroethene
Concen: 0.629 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. 0.00 min
Lab File: VN058548.D
Acq: 4 Oct 2019 17:59

Tgt Ion: 96 Resp: 3633
Ion Ratio Lower Upper
96 100
61 125.7 0.0 318.8
98 62.6 0.0 129.8





#31

Cyclohexane

Concen: 1.150 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058548.D

Acq: 4 Oct 2019 17:59

Instrument :
MSVOA_N
ClientSampleId :

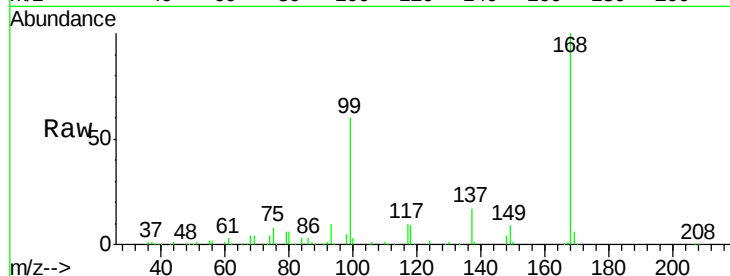
Tot Ion: 56 Resp: 10953

Ion Ratio Lower Upper

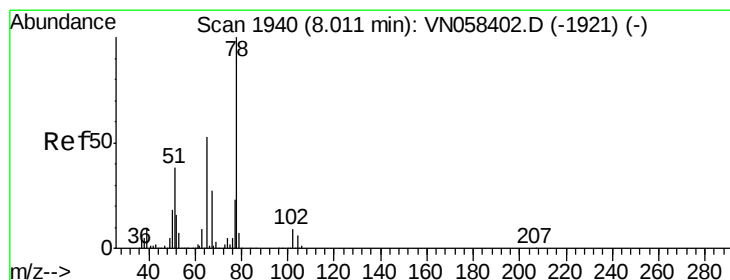
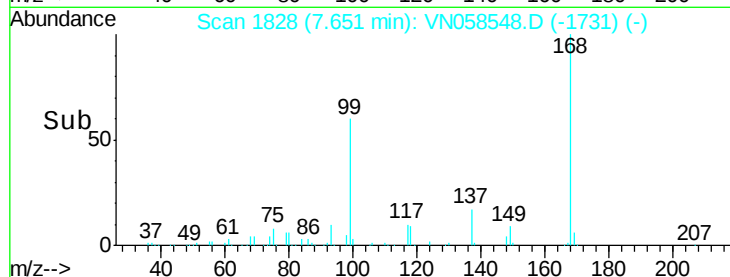
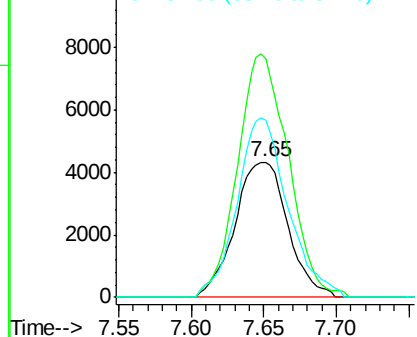
56 100

69 176.5 26.2 39.4#

84 131.3 67.6 101.4#



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



#33

1,2-Dichloroethane-d4

Concen: 48.230 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058548.D

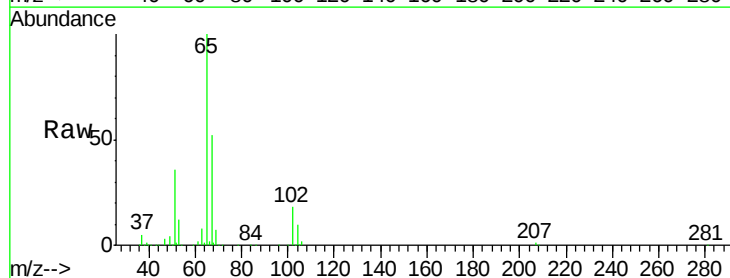
Acq: 4 Oct 2019 17:59

Tgt Ion: 65 Resp: 332017

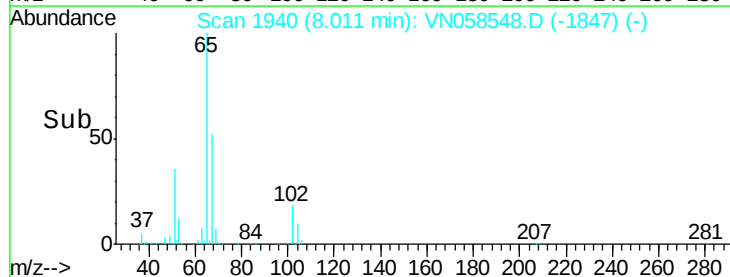
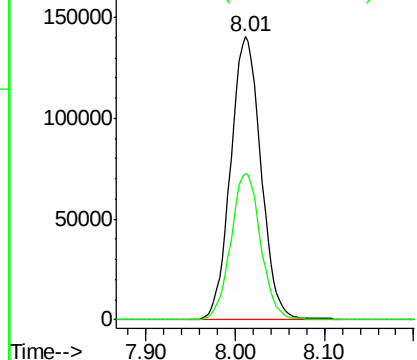
Ion Ratio Lower Upper

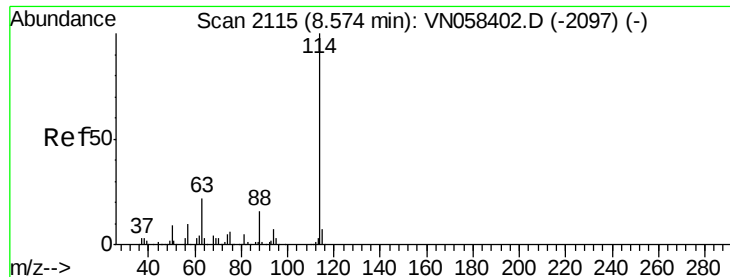
65 100

67 51.0 0.0 102.4



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

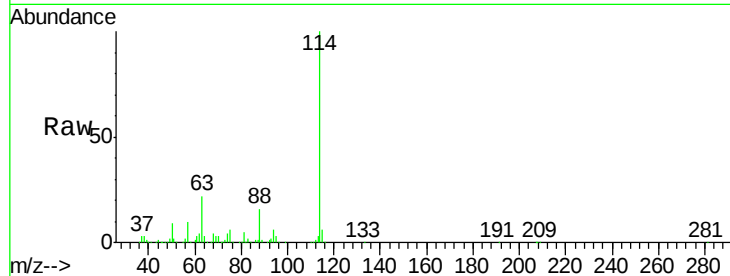




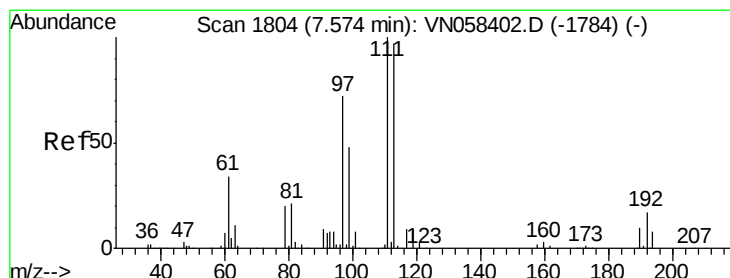
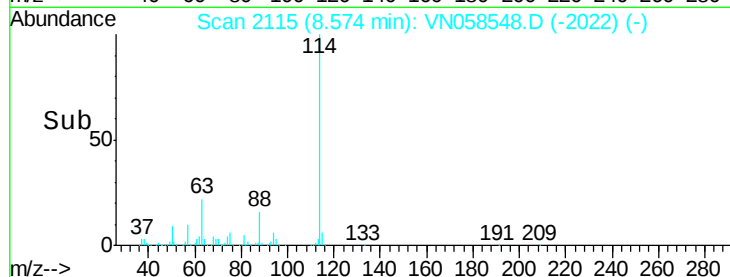
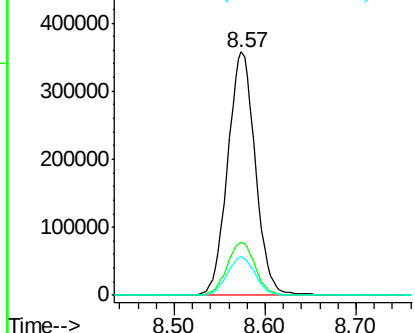
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058548.D
 Acq: 4 Oct 2019 17:59

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 754063
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 45.0
 88 15.7 0.0 32.2

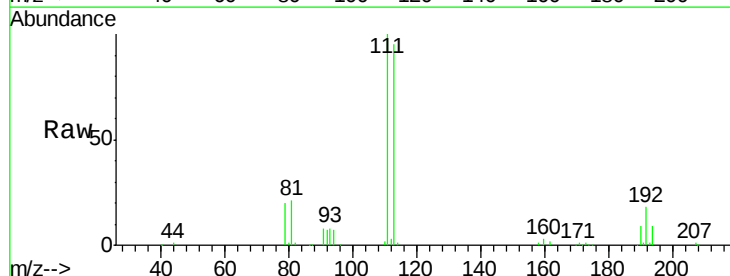


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

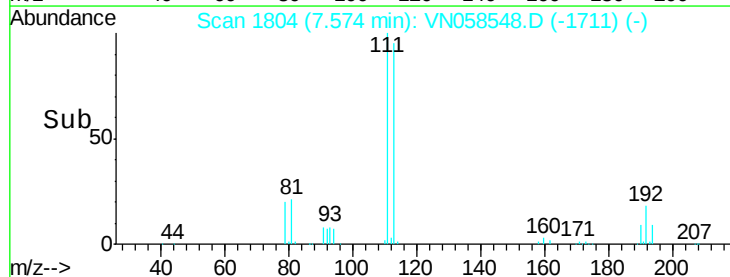
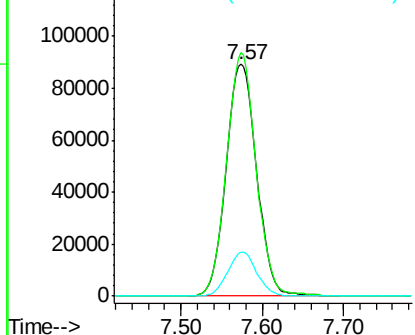


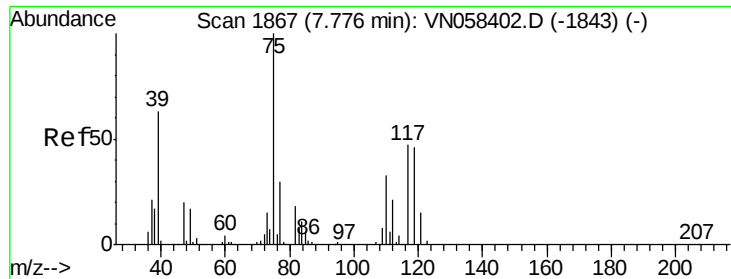
#35
 Dibromofluoromethane
 Concen: 50.767 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058548.D
 Acq: 4 Oct 2019 17:59

Tgt Ion:113 Resp: 234623
 Ion Ratio Lower Upper
 113 100
 111 101.0 83.4 125.2
 192 18.1 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

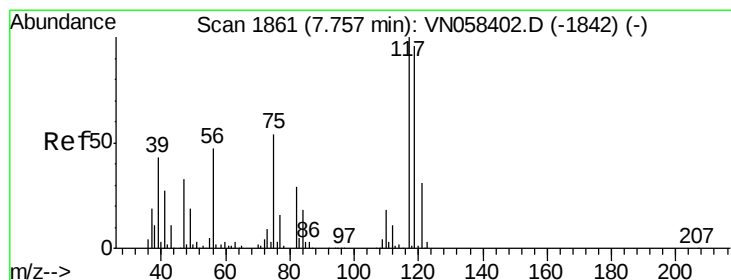
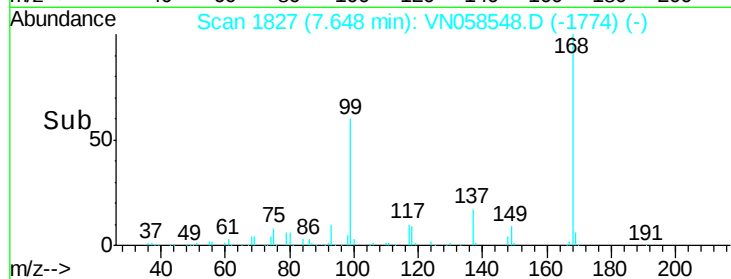
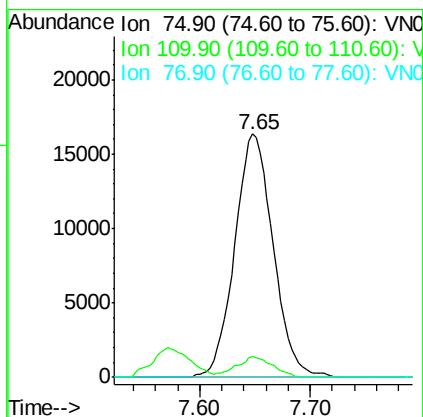
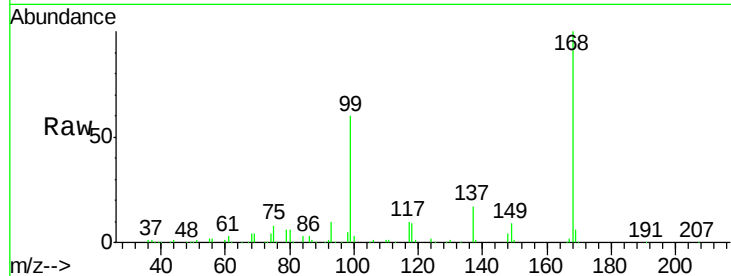




#36
 1,1-Dichloropropene
 Concen: 5.478 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058548.D
 Acq: 4 Oct 2019 17:59

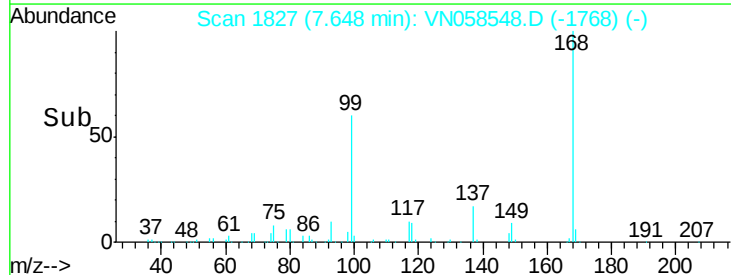
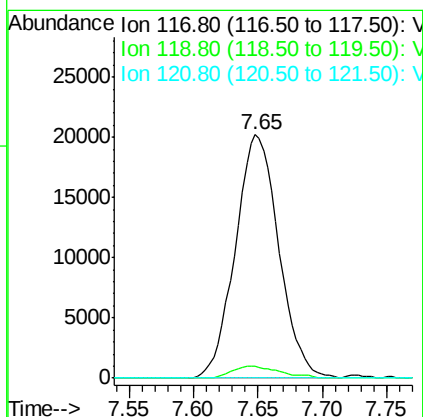
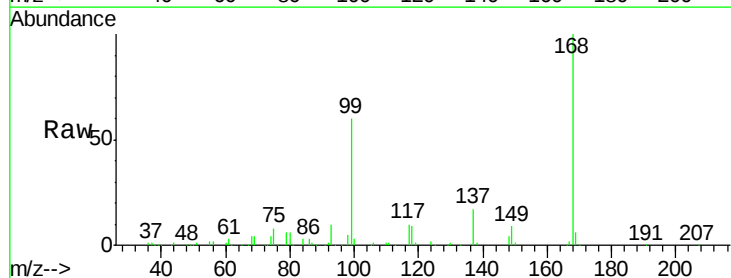
Instrument :
 MSVOA_N
 ClientSampled :

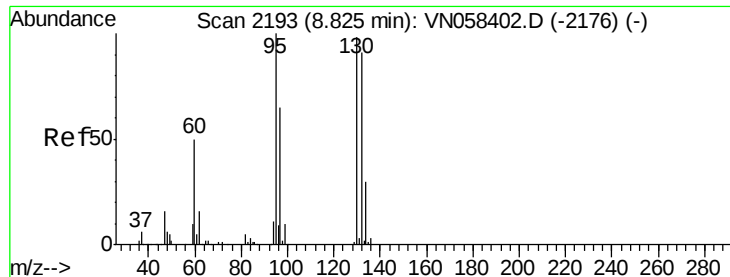
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.0	16.4	49.2#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 7.283 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN058548.D
 Acq: 4 Oct 2019 17:59

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	76.6	115.0#
121	0.0	24.7	37.1#





#44

Trichloroethene

Concen: 5.215 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN058548.D

Acq: 4 Oct 2019 17:59

Instrument :

MSVOA_N

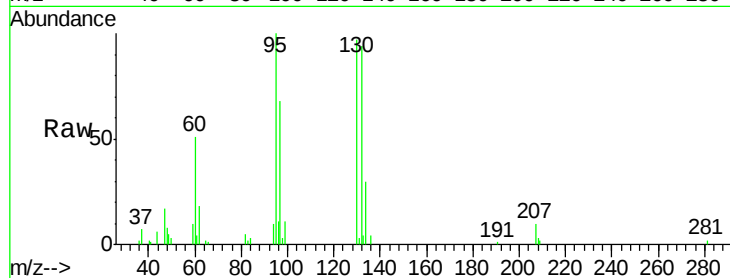
ClientSampleId :

Tot Ion:130 Resp: 26688

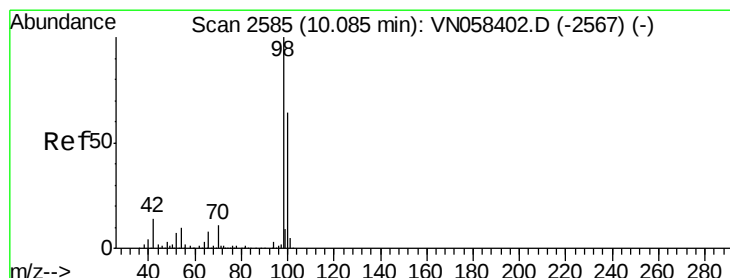
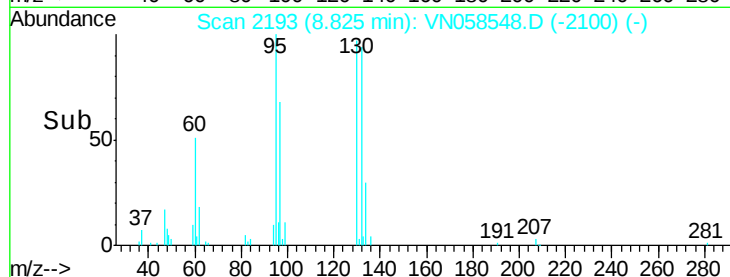
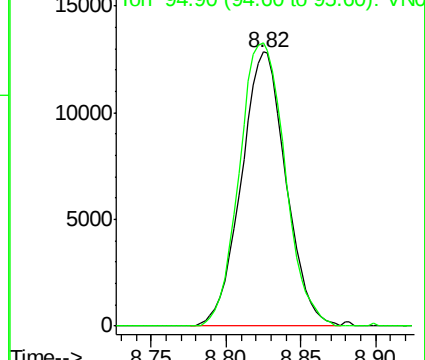
Ion Ratio Lower Upper

130 100

95 103.2 0.0 204.2



Abundance Ion 129.80 (129.50 to 130.50): VN058402.D (-2176) (-)



#50

Toluene-d8

Concen: 48.710 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058548.D

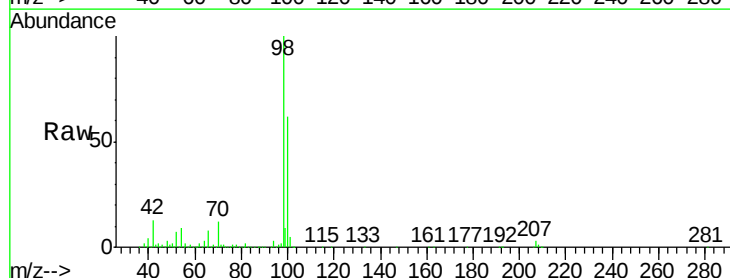
Acq: 4 Oct 2019 17:59

Tgt Ion: 98 Resp: 881885

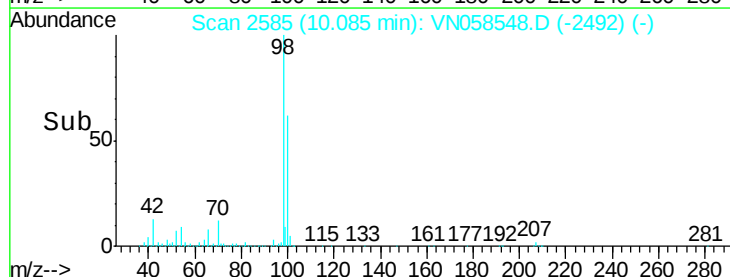
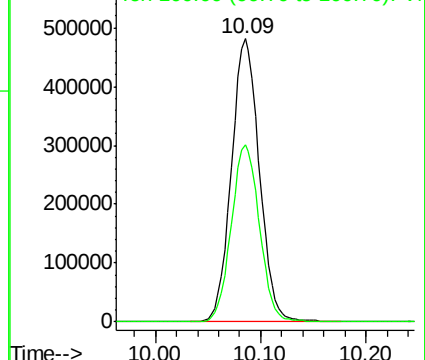
Ion Ratio Lower Upper

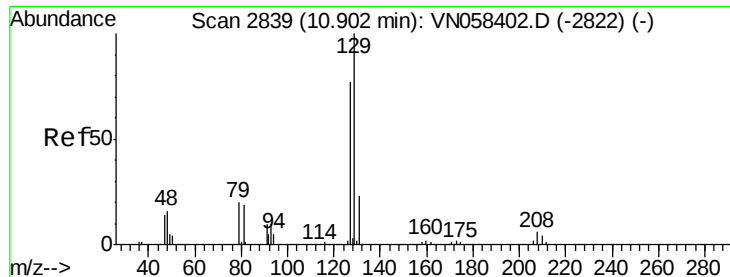
98 100

100 63.1 51.0 76.6



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





#60

Dibromochloromethane

Concen: 95.234 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN058548.D

Acq: 4 Oct 2019 17:59

Instrument :

MSVOA_N

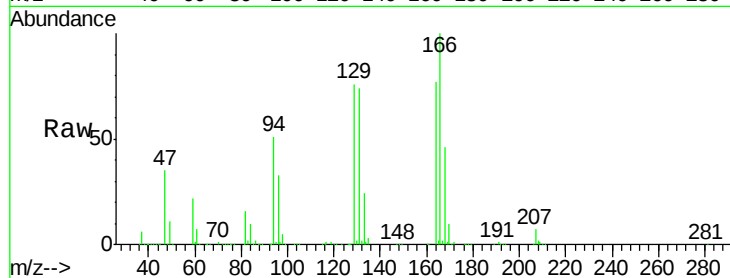
ClientSampled :

Tot Ion:129 Resp: 465988

Ion Ratio Lower Upper

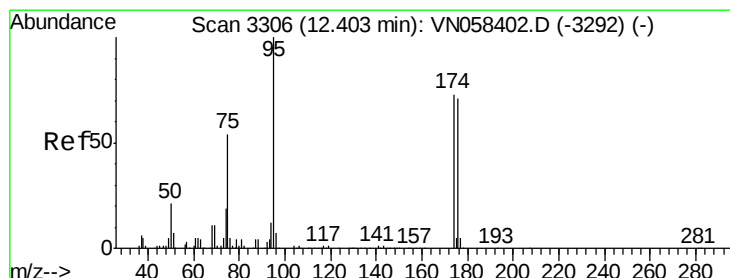
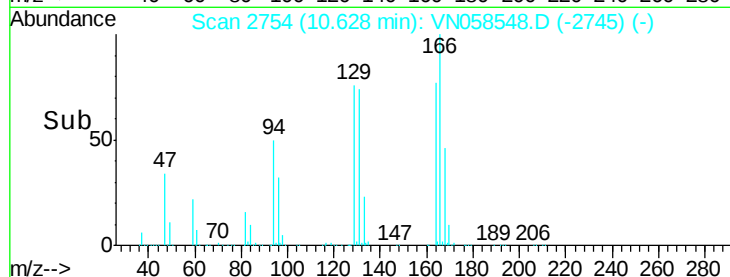
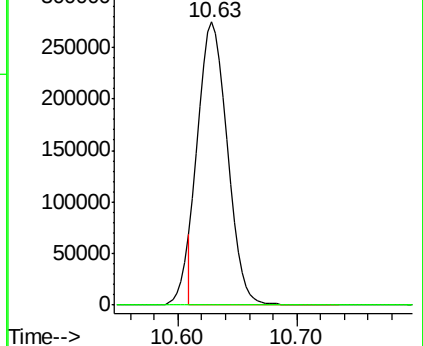
129 100

127 0.1 38.3 114.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 44.062 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058548.D

Acq: 4 Oct 2019 17:59

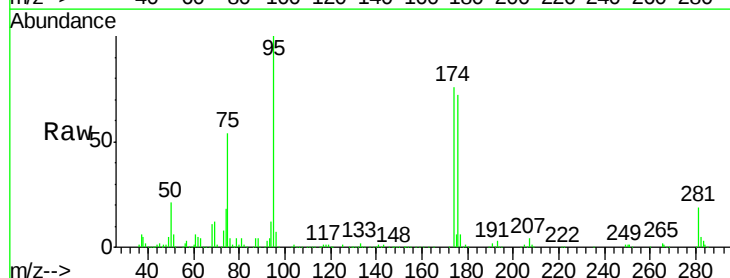
Tgt Ion: 95 Resp: 288440

Ion Ratio Lower Upper

95 100

174 75.5 0.0 150.6

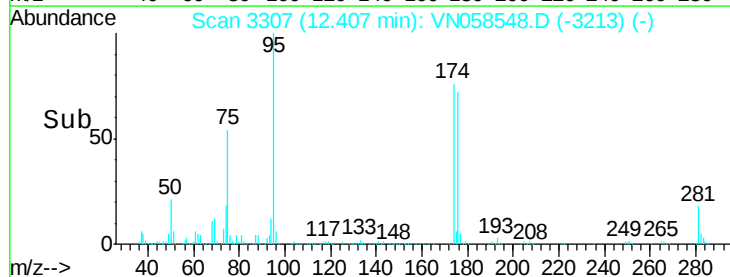
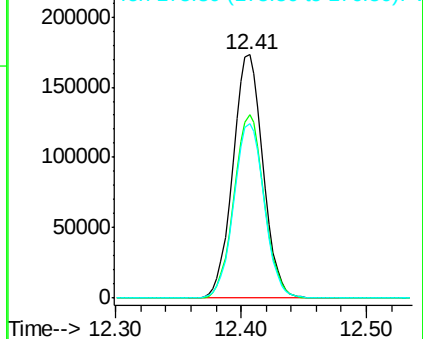
176 72.9 0.0 146.2

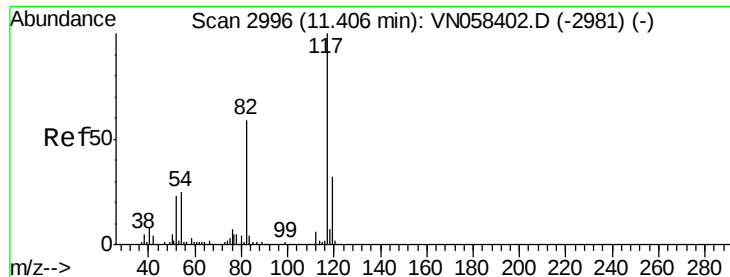


Abundance Ion 94.90 (94.60 to 95.60): V

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: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058548.D

Acq: 4 Oct 2019 17:59

Instrument :

MSVOA_N

ClientSampled :

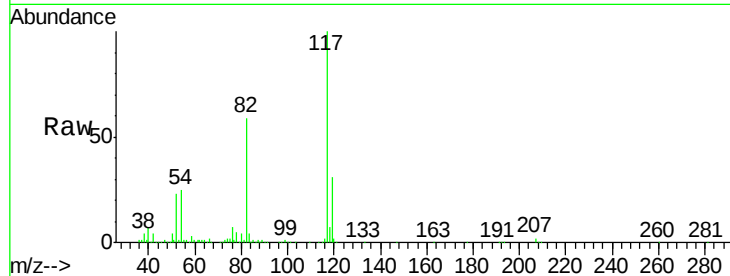
Tot Ion:117 Resp: 608245

Ion Ratio Lower Upper

117 100

82 58.7 47.4 71.0

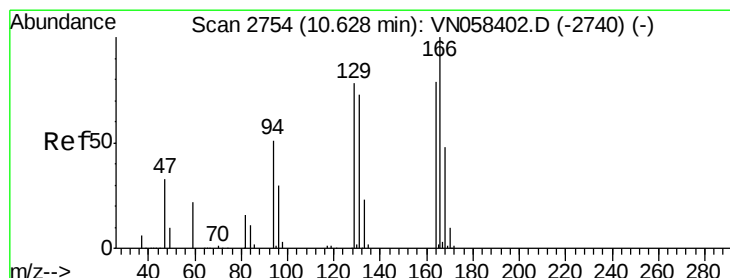
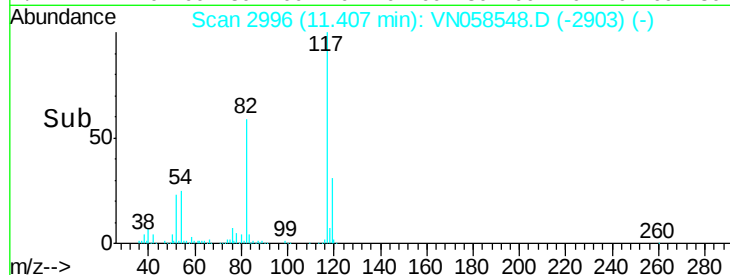
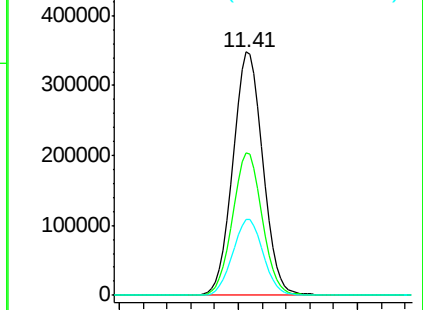
119 30.9 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 129.864 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VN058548.D

Acq: 4 Oct 2019 17:59

Tgt Ion:164 Resp: 501845

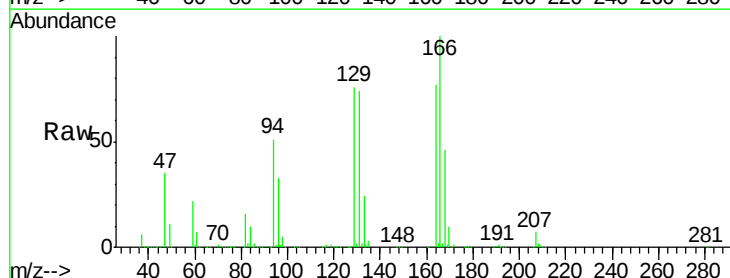
Ion Ratio Lower Upper

164 100

166 129.7 101.1 151.7

129 98.4 79.2 118.8

131 96.3 74.1 111.1

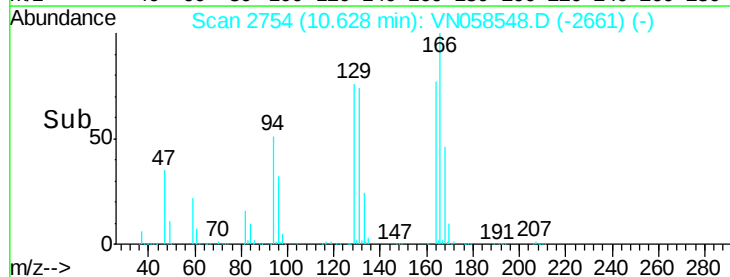
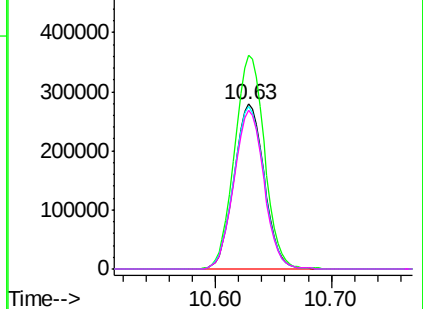


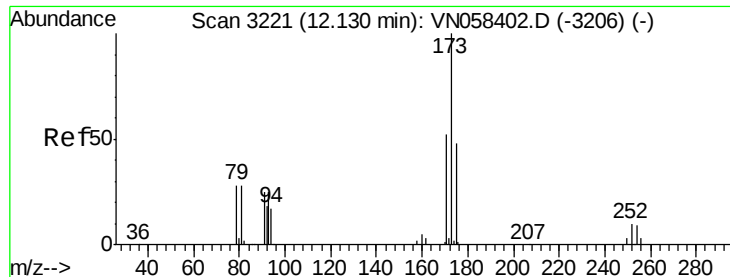
Abundance Ion 163.80 (163.50 to 164.50): V

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: 0.843 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.26 min

Lab File: VN058548.D

Acq: 4 Oct 2019 17:59

Instrument :

MSVOA_N

ClientSampleId :

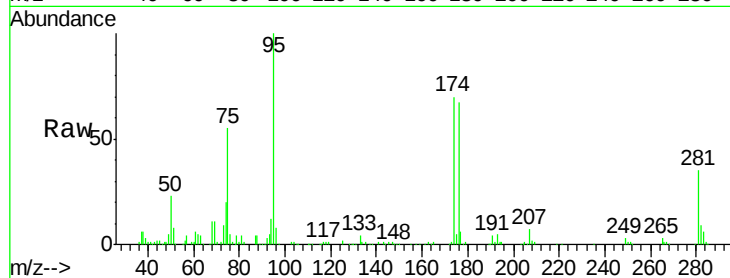
Tot Ion:173 Resp: 424

Ion Ratio Lower Upper

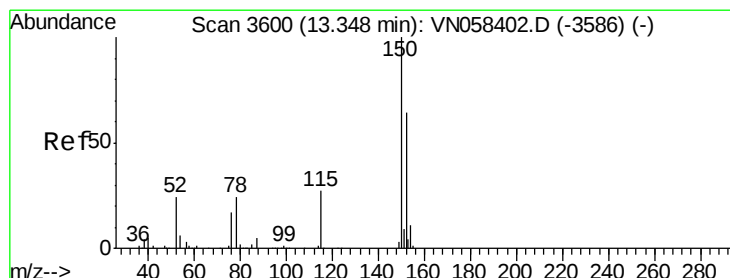
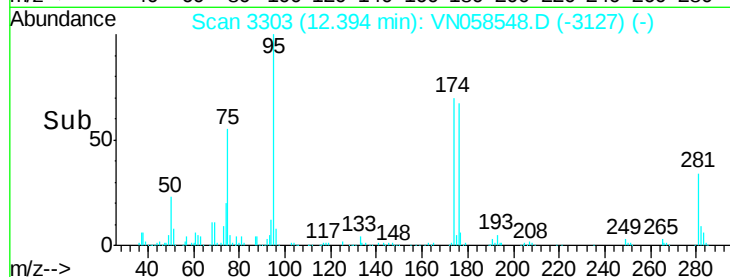
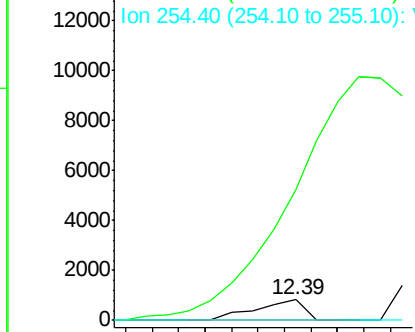
173 100

175 0.0 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: VN058548.D

Acq: 4 Oct 2019 17:59

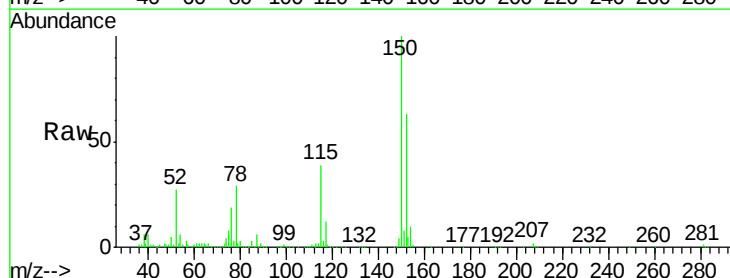
Tgt Ion:152 Resp: 248737

Ion Ratio Lower Upper

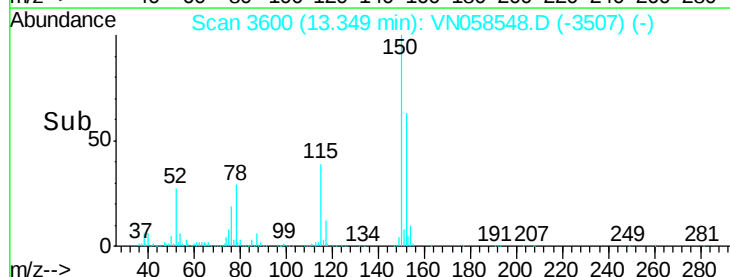
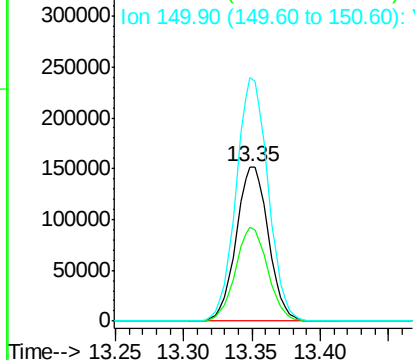
152 100

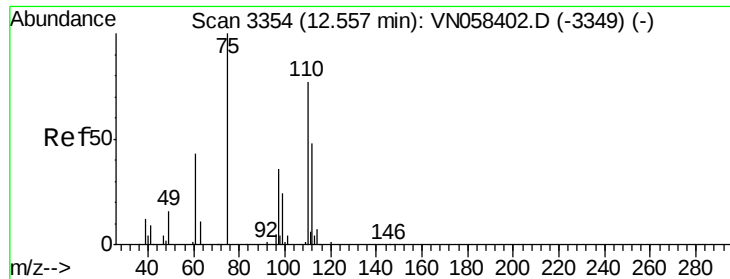
115 61.0 30.0 90.0

150 156.9 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: 34.392 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058548.D

Acq: 4 Oct 2019 17:59

Instrument :

MSVOA_N

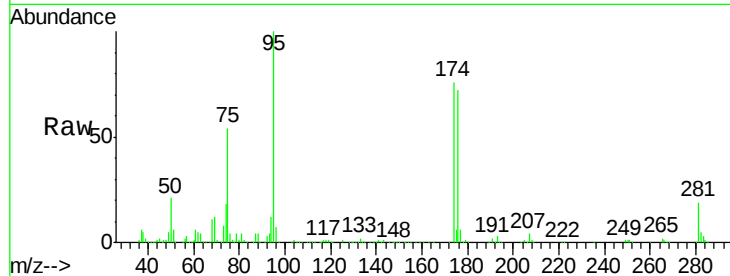
ClientSampled :

Tot Ion: 75 Resp: 156250

Ion Ratio Lower Upper

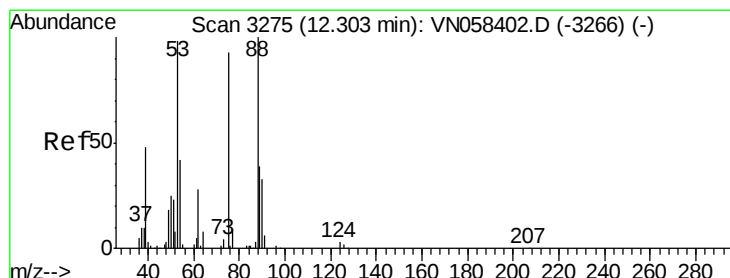
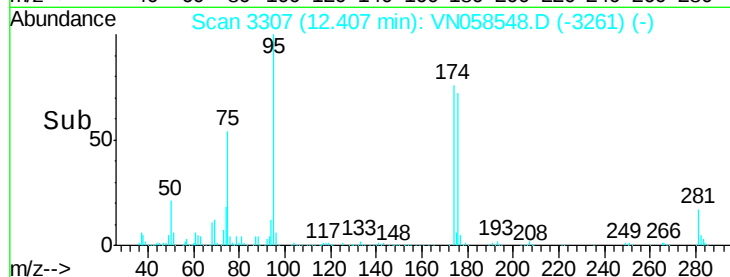
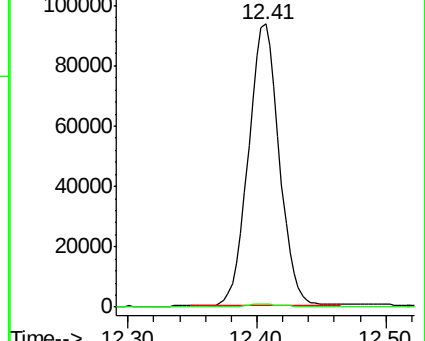
75 100

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: 104.453 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058548.D

Acq: 4 Oct 2019 17:59

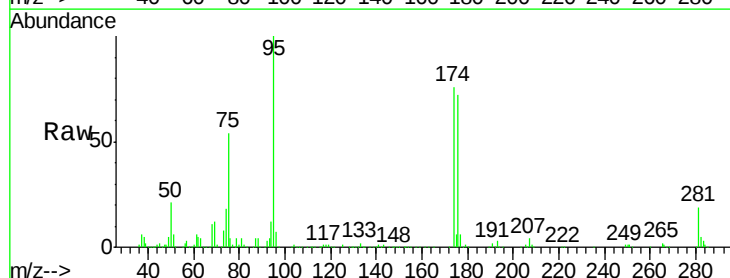
Tgt Ion: 75 Resp: 156250

Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

89 0.1 35.0 52.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

