

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100419\
 Data File : VN058542.D
 Acq On : 4 Oct 2019 15:47
 Operator : JC/SP
 Sample : K5169-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 04 23:39:18 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	414536	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	667883	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	584783	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	242752	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	296004	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	
35) Dibromofluoromethane	7.57	113	209181	51.10	ug/l	0.00
Spiked Amount			Recovery	=	102.20%	
50) Toluene-d8	10.08	98	837691	52.24	ug/l	0.00
Spiked Amount			Recovery	=	104.48%	
62) 4-Bromofluorobenzene	12.41	95	285594	49.26	ug/l	0.00
Spiked Amount			Recovery	=	98.52%	

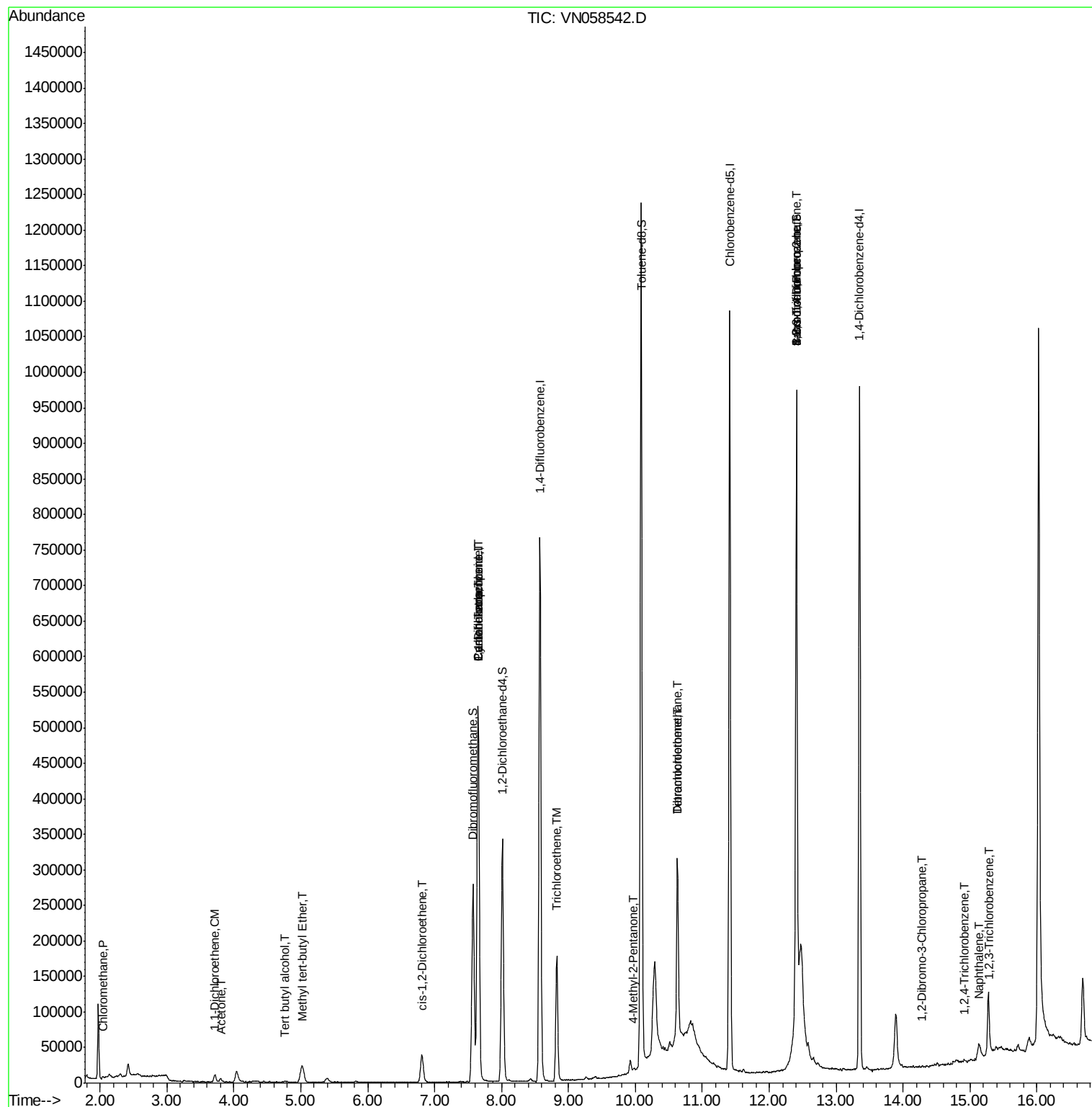
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	2263	0.453	ug/l #	85
11) Tert butyl alcohol	4.75	59	972	1.444	ug/l #	71
12) 1,1-Dichloroethene	3.72	96	5253	1.343	ug/l	95
16) Acetone	3.80	43	8719	4.222	ug/l #	87
19) Methyl tert-butyl Ether	5.02	73	38665	2.802	ug/l	98
27) cis-1,2-Dichloroethene	6.81	96	24616	4.843	ug/l	87
31) Cyclohexane	7.64	56	10545	1.258	ug/l #	20
36) 1,1-Dichloropropene	7.65	75	35948	5.629	ug/l #	51
38) Carbon Tetrachloride	7.65	117	42945	7.450	ug/l #	16
44) Trichloroethene	8.82	130	60927	13.442	ug/l	94
51) 4-Methyl-2-Pentanone	9.98	43	2408	0.460	ug/l	97
60) Dibromochloromethane	10.63	129	51490	11.392	ug/l #	11
64) Tetrachloroethene	10.63	164	53241	14.330	ug/l	93
71) Bromoform	12.41	173	1358	1.190	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	155528	35.077	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	155528	106.534	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	14.27	75	431	0.461	ug/l #	5
93) 1,2,4-Trichlorobenzene	14.92	180	1127	0.278	ug/l	96
95) Naphthalene	15.14	128	3206	0.241	ug/l #	91
96) 1,2,3-Trichlorobenzene	15.30	180	1172	0.263	ug/l #	66

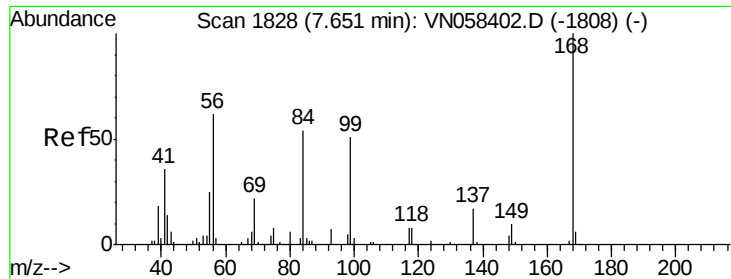
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Sep 30 08:07:38 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.00 min

Lab File: VN058542.D

Acq: 4 Oct 2019 15:47

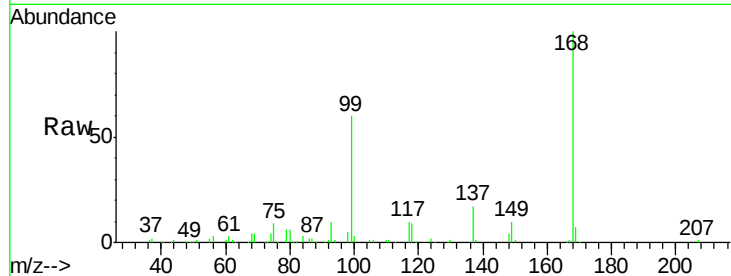
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 414536

Ion Ratio Lower Upper

168 100

99 59.7 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

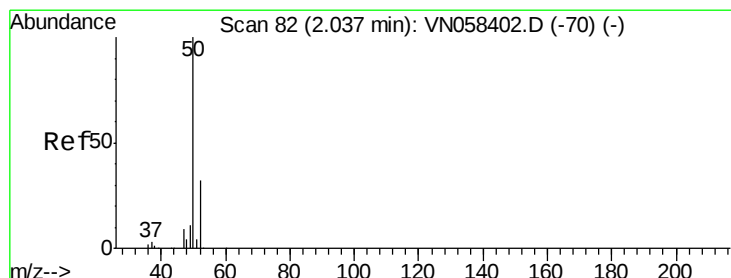
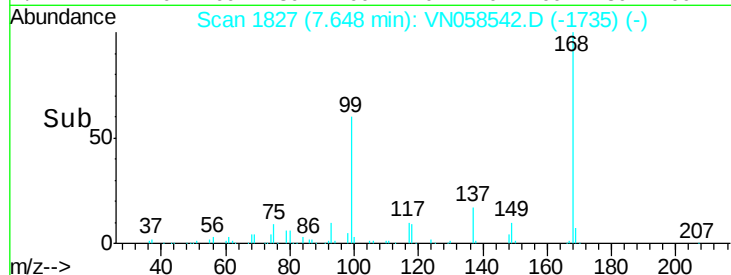
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.453 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058542.D

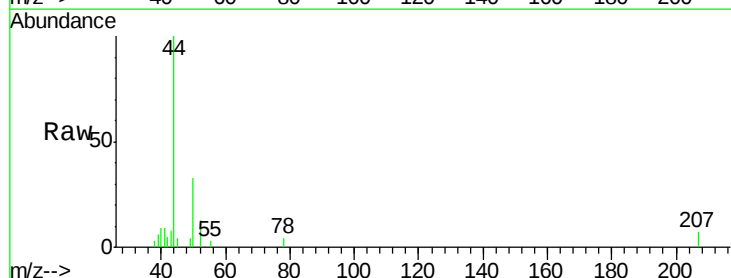
Acq: 4 Oct 2019 15:47

Tgt Ion: 50 Resp: 2263

Ion Ratio Lower Upper

50 100

52 40.5 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

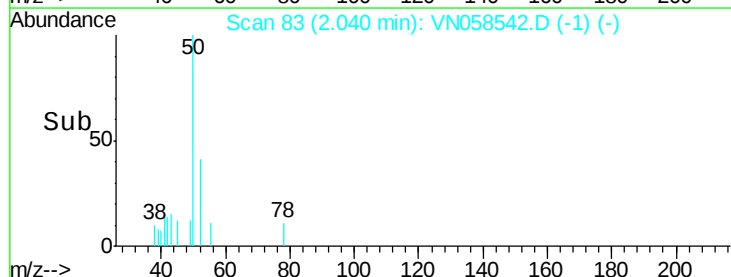
1500

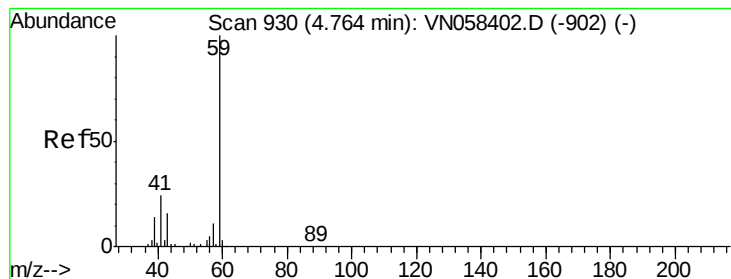
1000

500

0

Time-->



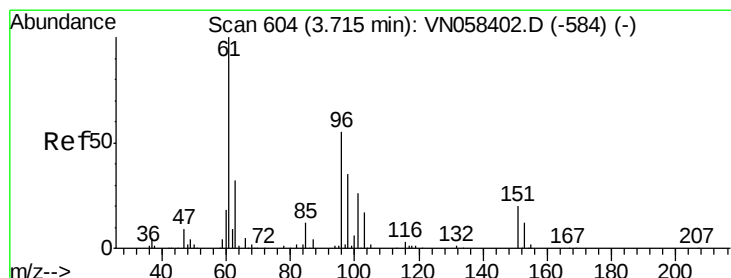
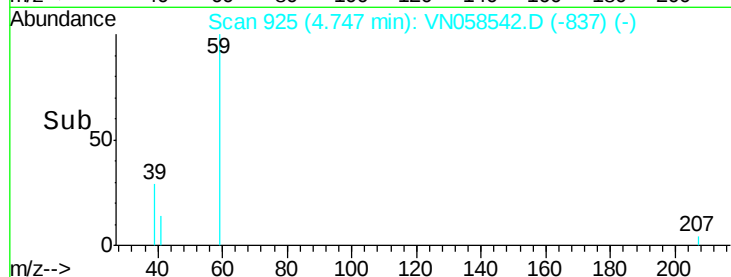
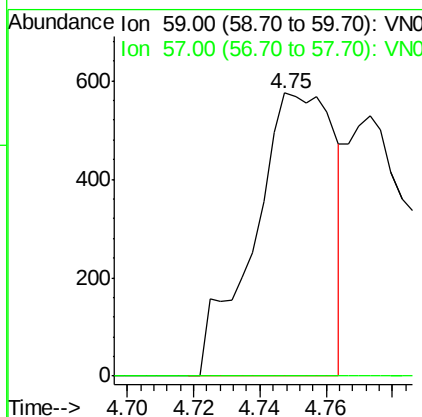
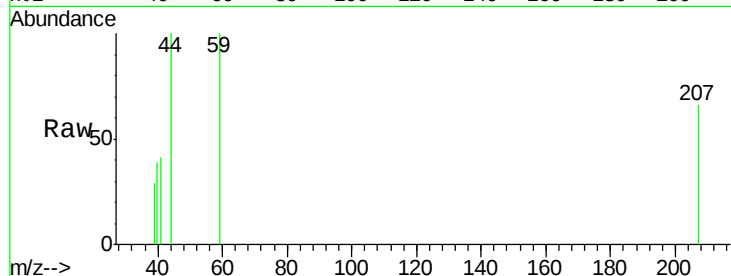


#11

Tert butyl alcohol
 Concen: 1.444 ug/l
 RT: 4.75 min Scan# 925
 Delta R.T. -0.02 min
 Lab File: VN058542.D
 Acq: 4 Oct 2019 15:47

Instrument :
 MSVOA_N
 ClientSampleId :

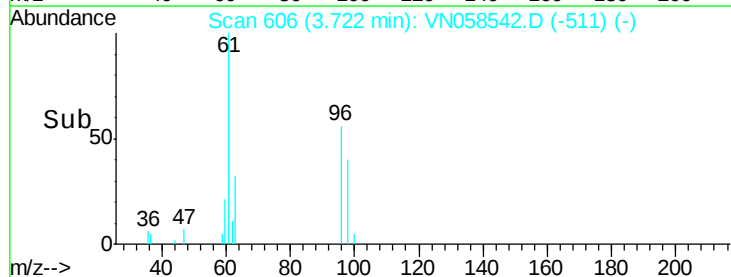
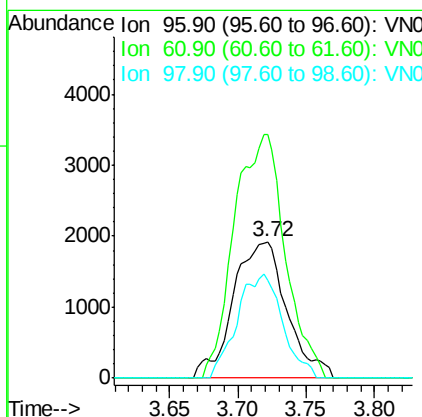
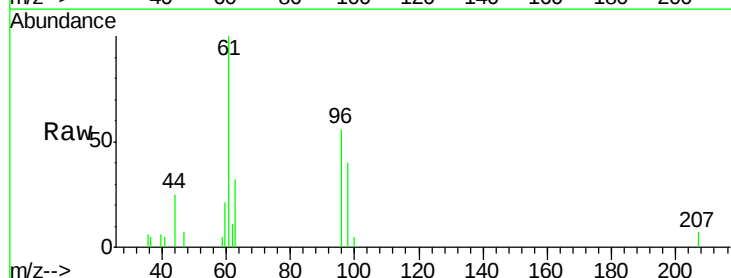
Tot Ion: 59 Resp: 972
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.4#

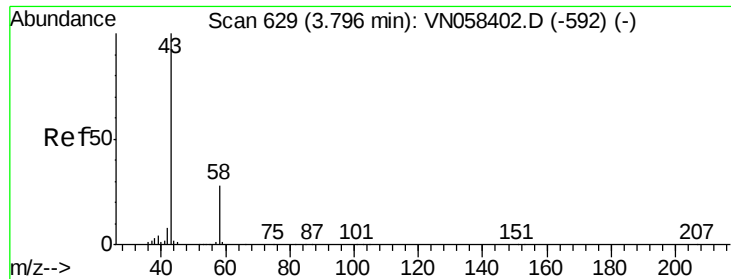


#12

1,1-Dichloroethene
 Concen: 1.343 ug/l
 RT: 3.72 min Scan# 606
 Delta R.T. 0.01 min
 Lab File: VN058542.D
 Acq: 4 Oct 2019 15:47

Tgt Ion: 96 Resp: 5253
 Ion Ratio Lower Upper
 96 100
 61 178.6 146.7 220.1
 98 71.9 51.3 76.9





#16

Acetone

Concen: 4.222 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058542.D

Acq: 4 Oct 2019 15:47

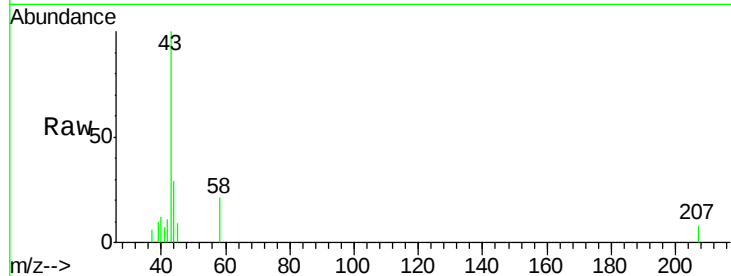
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 8719

Ion Ratio Lower Upper

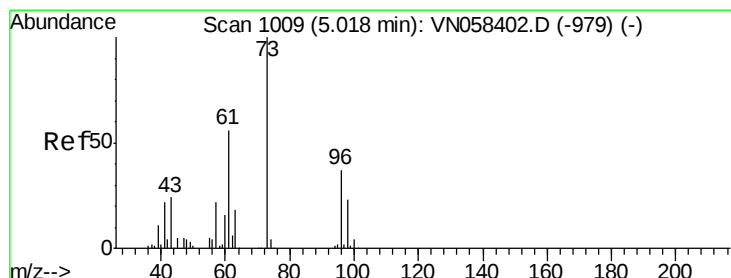
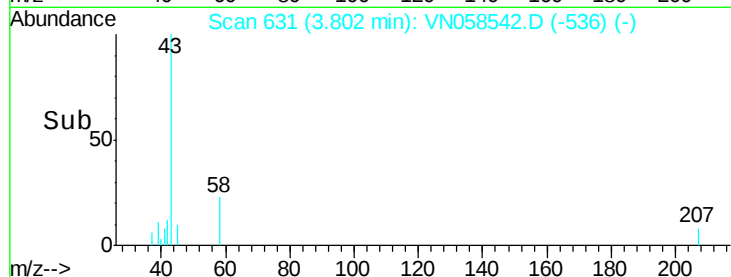
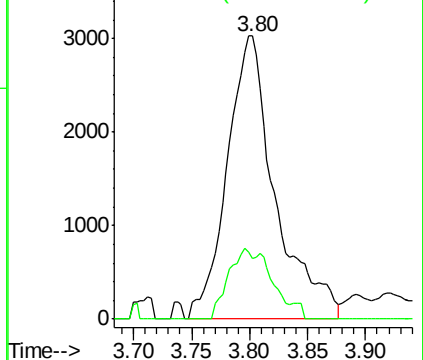
43 100

58 21.4 22.4 33.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#19

Methyl tert-butyl Ether

Concen: 2.802 ug/l

RT: 5.02 min Scan# 1009

Delta R.T. -0.00 min

Lab File: VN058542.D

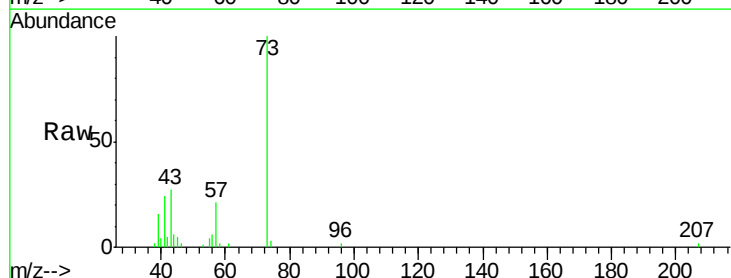
Acq: 4 Oct 2019 15:47

Tgt Ion: 73 Resp: 38665

Ion Ratio Lower Upper

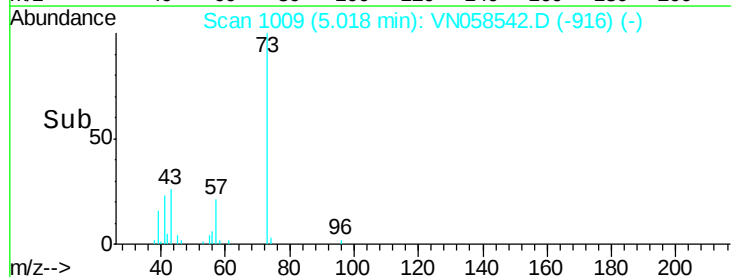
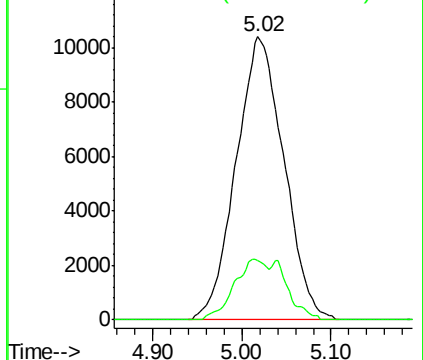
73 100

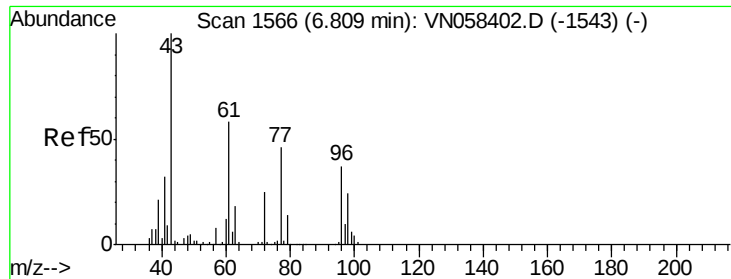
57 20.8 17.6 26.4



Abundance Ion 73.00 (72.70 to 73.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

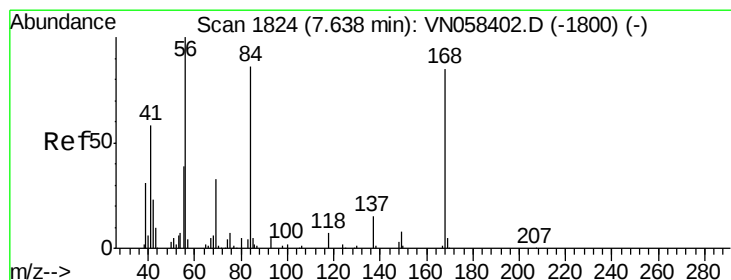
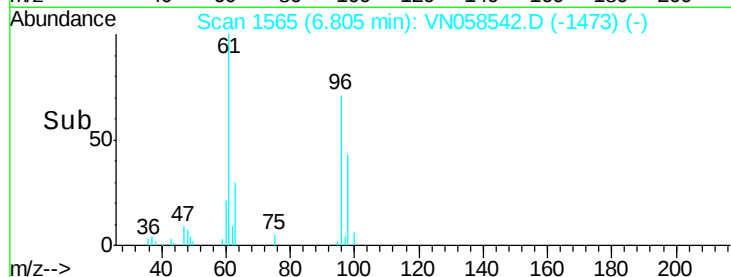
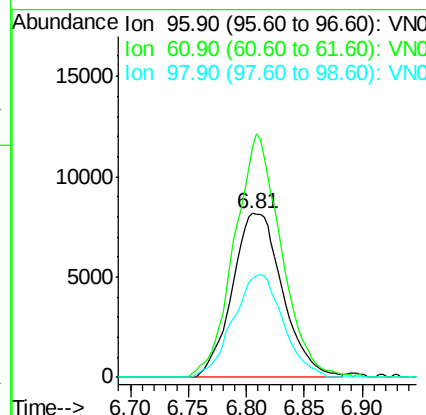
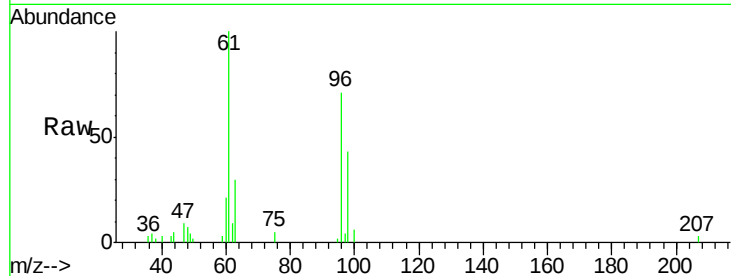




#27
 cis-1,2-Dichloroethene
 Concen: 4.843 ug/l
 RT: 6.81 min Scan# 1565
 Delta R.T. -0.00 min
 Lab File: VN058542.D
 Acq: 4 Oct 2019 15:47

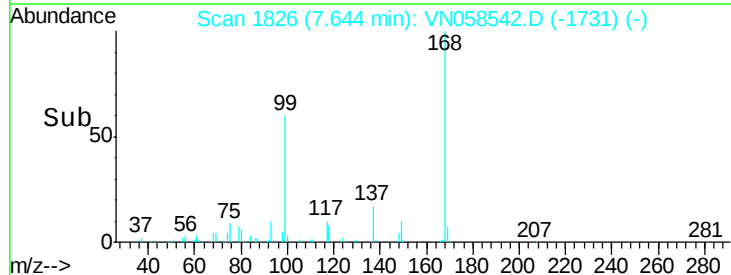
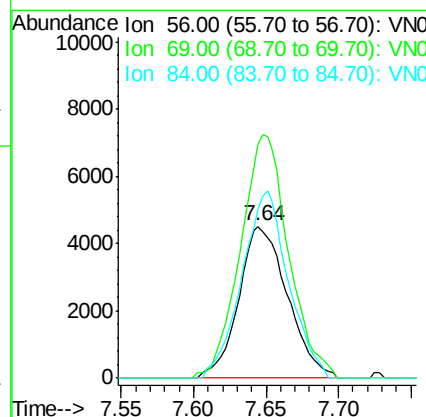
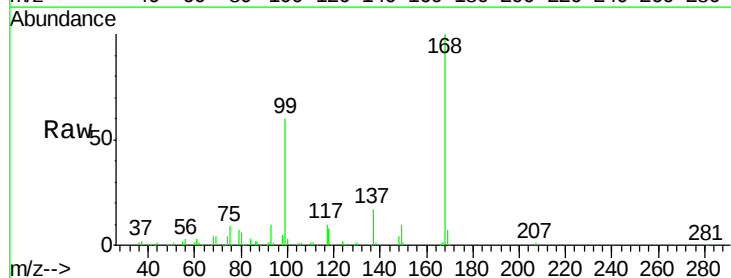
Instrument :
 MSVOA_N
 ClientSampleId :

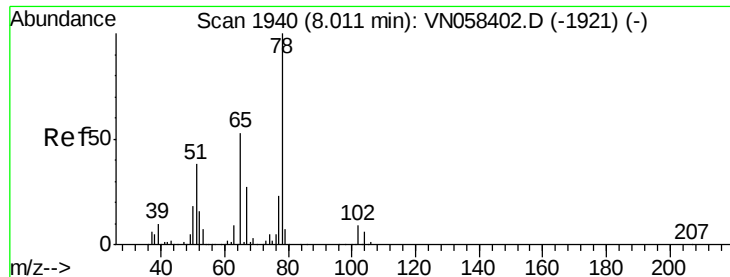
Tot Ion: 96 Resp: 24616
 Ion Ratio Lower Upper
 96 100
 61 137.9 0.0 318.8
 98 62.3 0.0 129.8



#31
 Cyclohexane
 Concen: 1.258 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. 0.01 min
 Lab File: VN058542.D
 Acq: 4 Oct 2019 15:47

Tgt Ion: 56 Resp: 10545
 Ion Ratio Lower Upper
 56 100
 69 153.1 26.2 39.4#
 84 110.5 67.6 101.4#

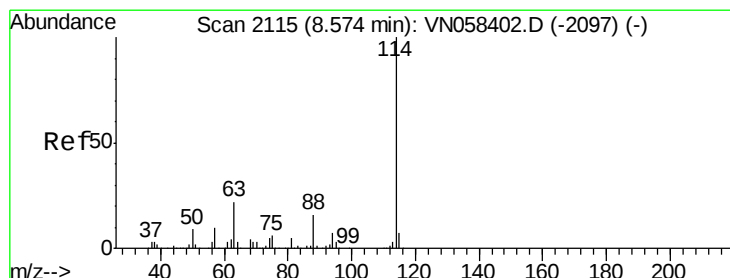
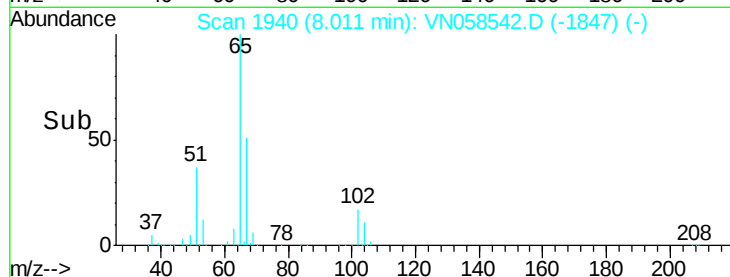
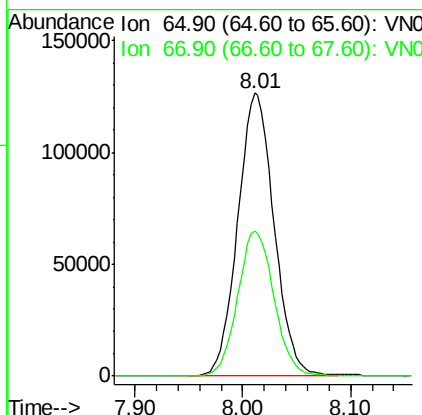
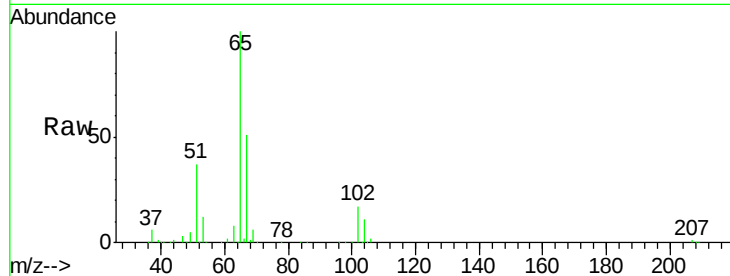




#33
 1,2-Dichloroethane-d4
 Concen: 48.863 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058542.D
 Acq: 4 Oct 2019 15:47

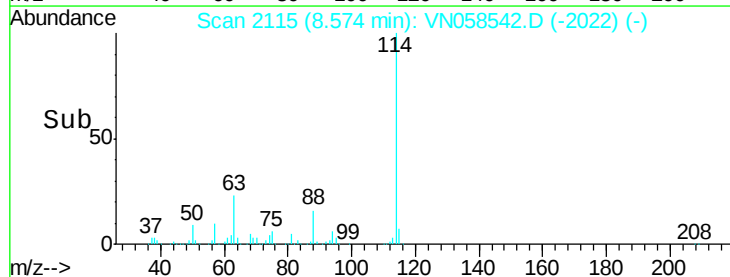
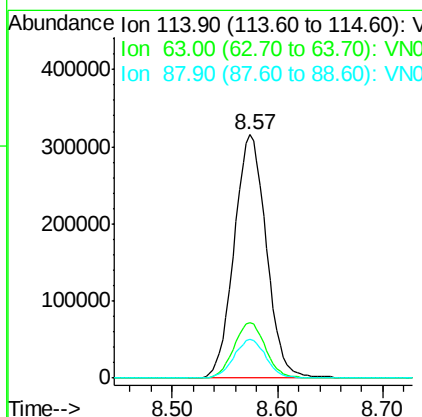
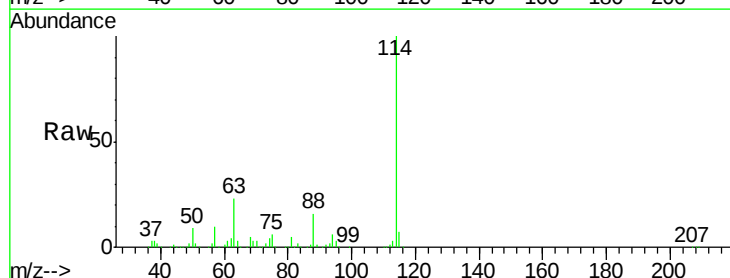
Instrument :
 MSVOA_N
 ClientSampled :

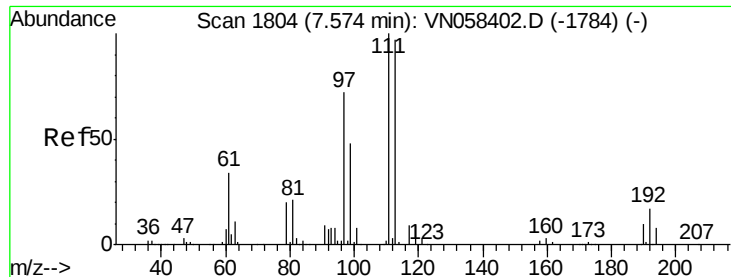
Tot Ion: 65 Resp: 296004
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 102.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058542.D
 Acq: 4 Oct 2019 15:47

Tgt Ion: 114 Resp: 667883
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 45.0
 88 15.7 0.0 32.2

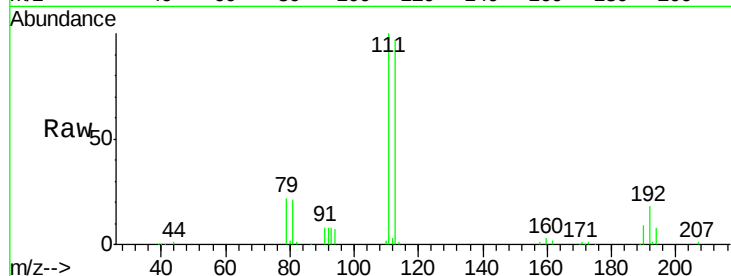




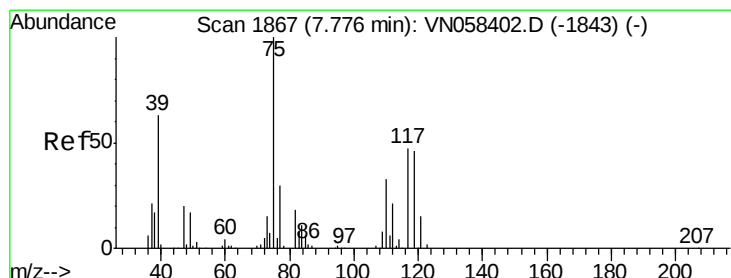
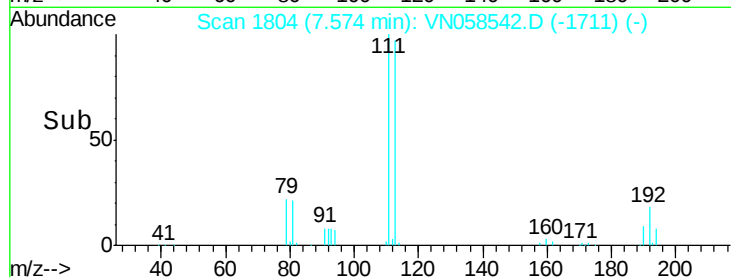
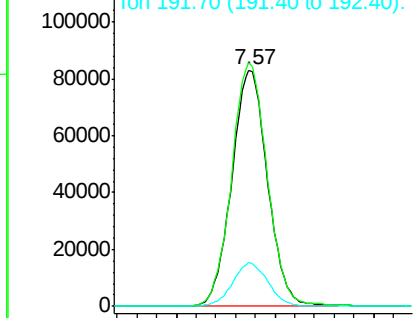
#35
Dibromofluoromethane
Concen: 51.102 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VN058542.D
Acq: 4 Oct 2019 15:47

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:113 Resp: 209181
Ion Ratio Lower Upper
113 100
111 103.1 83.4 125.2
192 18.3 14.9 22.3

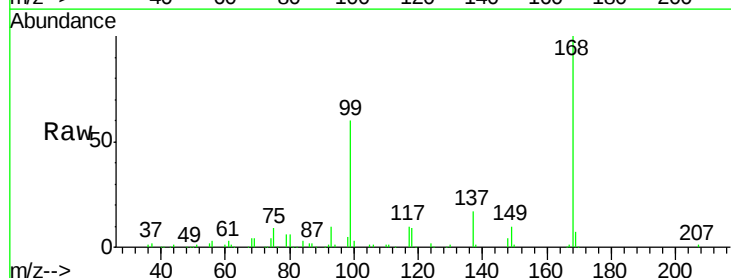


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

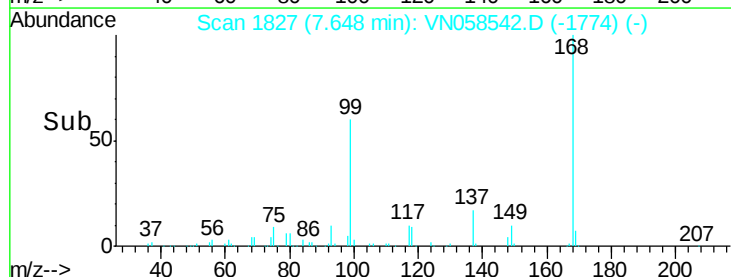
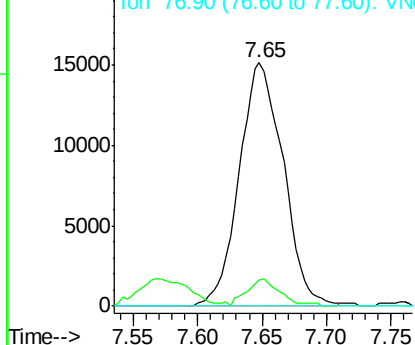


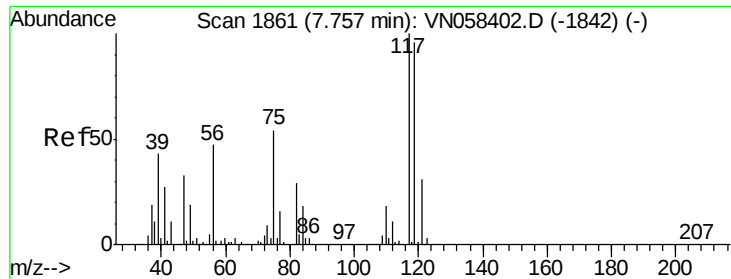
#36
1,1-Dichloropropene
Concen: 5.629 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.13 min
Lab File: VN058542.D
Acq: 4 Oct 2019 15:47

Tgt Ion: 75 Resp: 35948
Ion Ratio Lower Upper
75 100
110 8.5 16.4 49.2#
77 0.0 24.3 36.5#



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

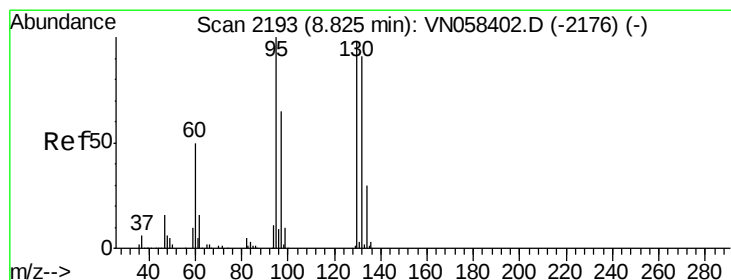
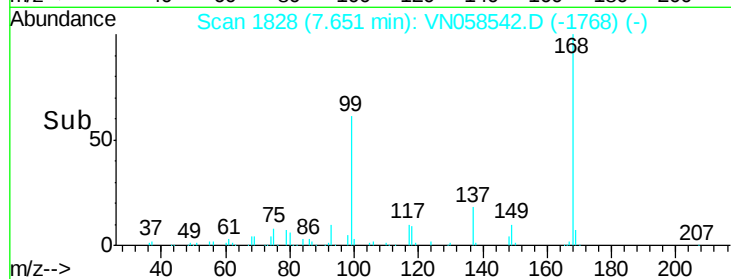
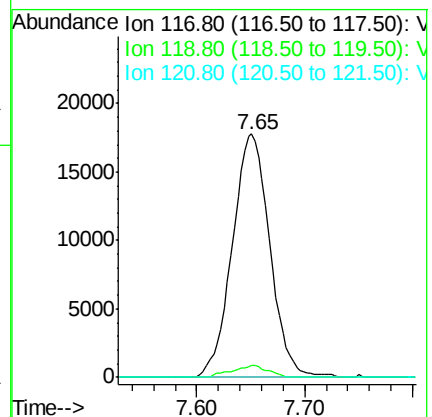
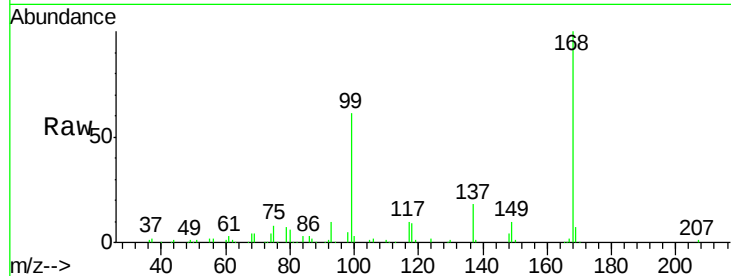




#38
Carbon Tetrachloride
Concen: 7.450 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.11 min
Lab File: VN058542.D
Acq: 4 Oct 2019 15:47

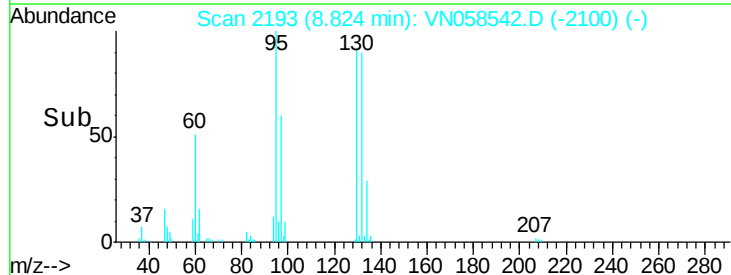
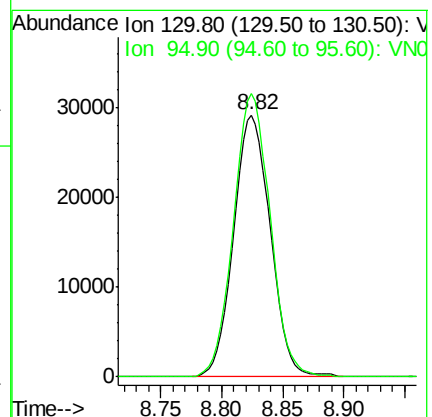
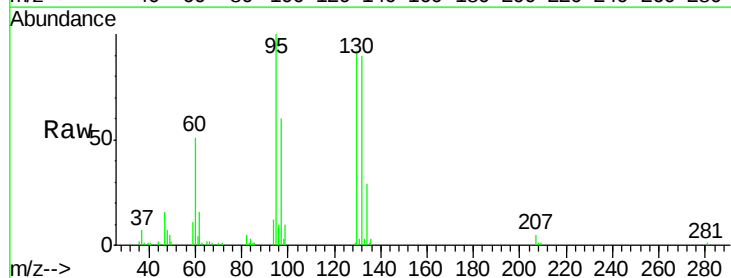
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ClientSampleId :

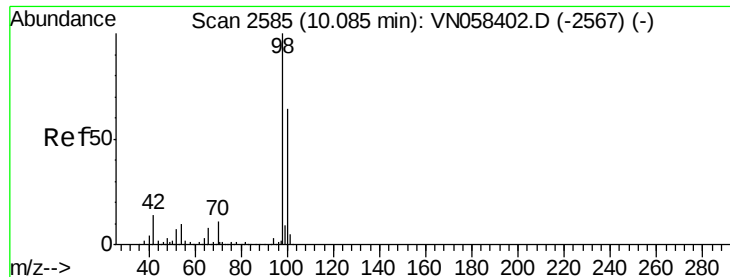
Tot Ion:117 Resp: 42945
Ion Ratio Lower Upper
117 100
119 5.0 76.6 115.0#
121 0.0 24.7 37.1#



#44
Trichloroethene
Concen: 13.442 ug/l
RT: 8.82 min Scan# 2193
Delta R.T. -0.00 min
Lab File: VN058542.D
Acq: 4 Oct 2019 15:47

Tgt Ion:130 Resp: 60927
Ion Ratio Lower Upper
130 100
95 108.2 0.0 204.2





#50

Toluene-d8

Concen: 52.240 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058542.D

Acq: 4 Oct 2019 15:47

Instrument :

MSVOA_N

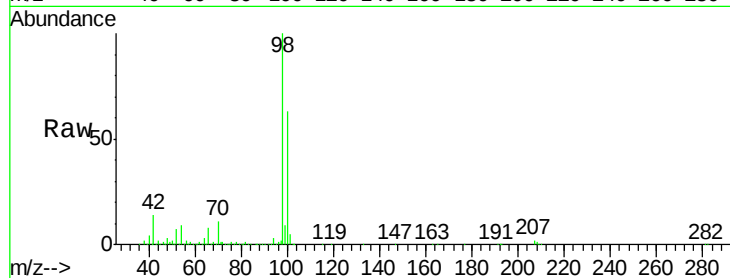
ClientSampled :

Tot Ion: 98 Resp: 837691

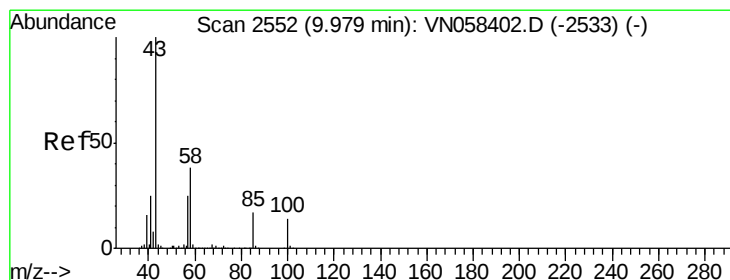
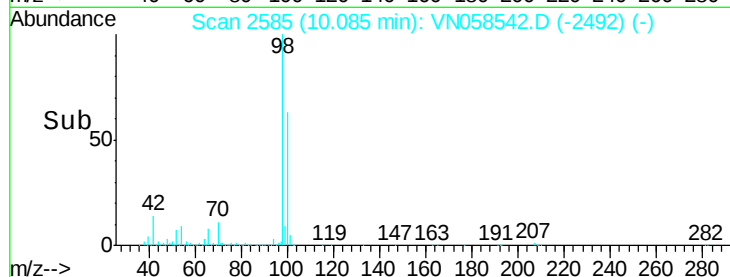
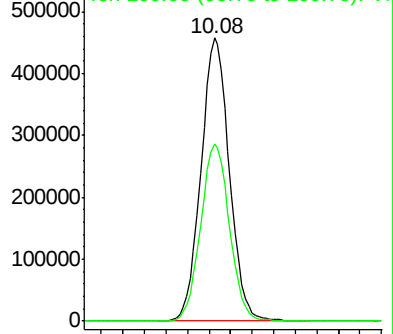
Ion Ratio Lower Upper

98 100

100 63.7 51.0 76.6



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



#51

4-Methyl-2-Pentanone

Concen: 0.460 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. -0.00 min

Lab File: VN058542.D

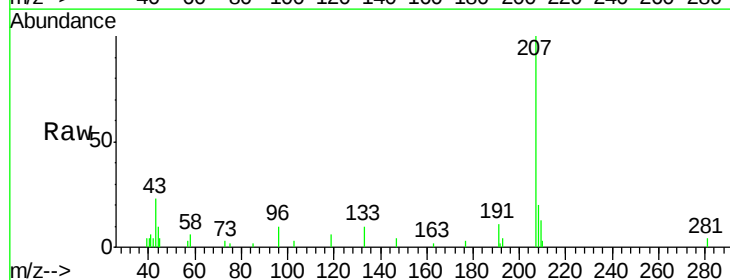
Acq: 4 Oct 2019 15:47

Tgt Ion: 43 Resp: 2408

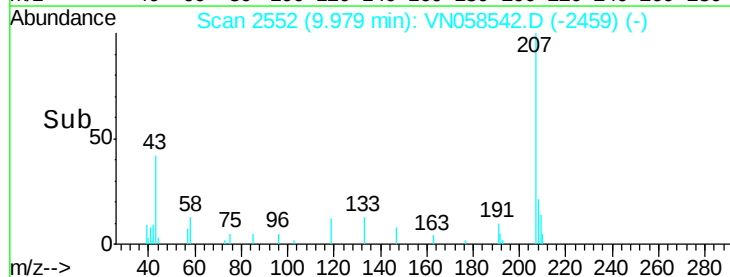
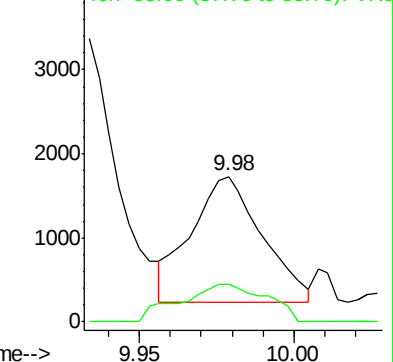
Ion Ratio Lower Upper

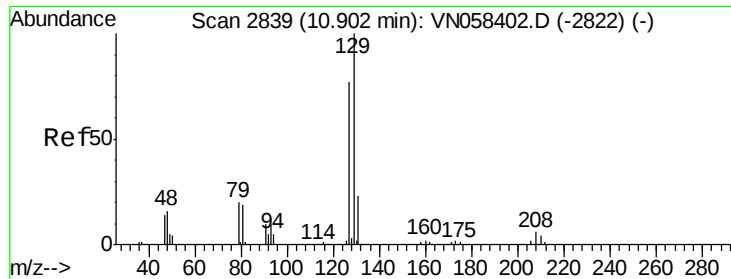
43 100

58 36.0 30.2 45.2



Abundance Ion 43.00 (42.70 to 43.70): VN058402.D (-2533) (-)

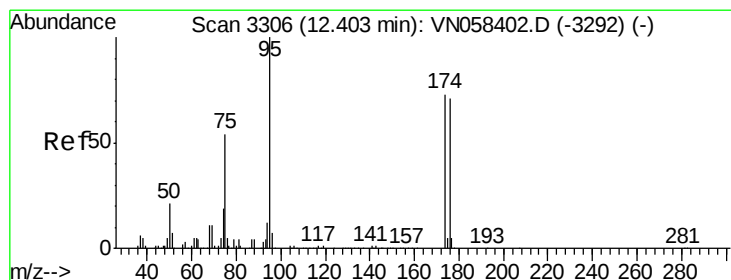
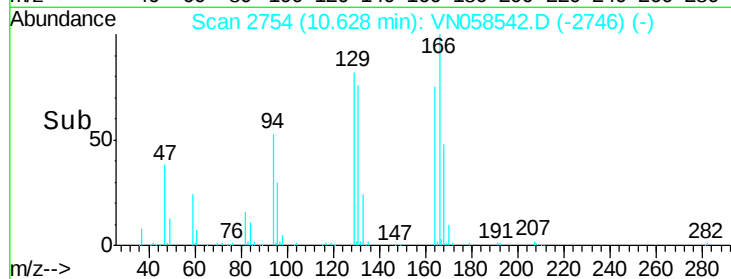
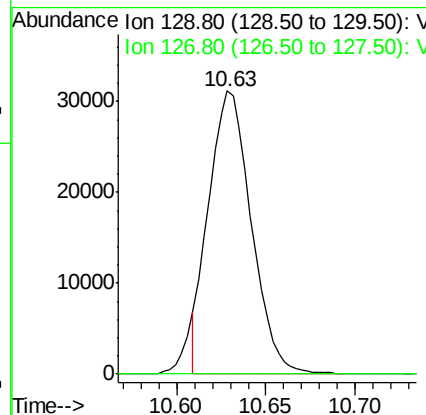
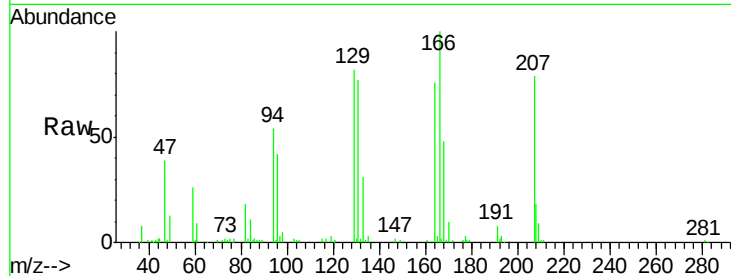




#60
Dibromochloromethane
Concen: 11.392 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.27 min
Lab File: VN058542.D
Acq: 4 Oct 2019 15:47

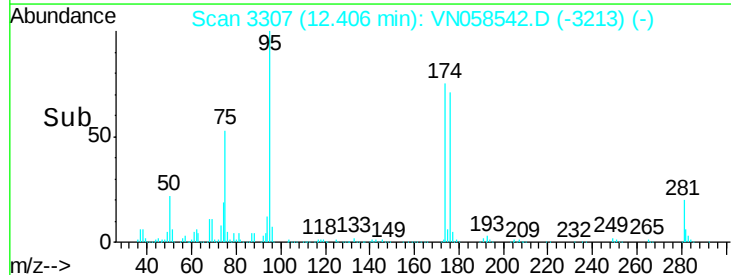
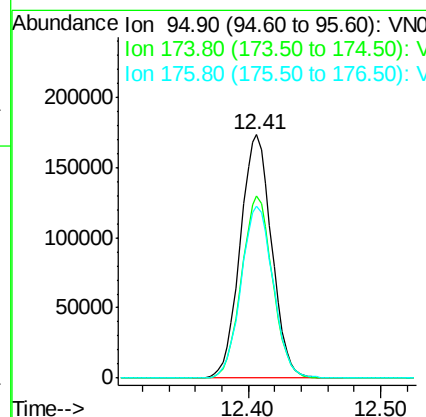
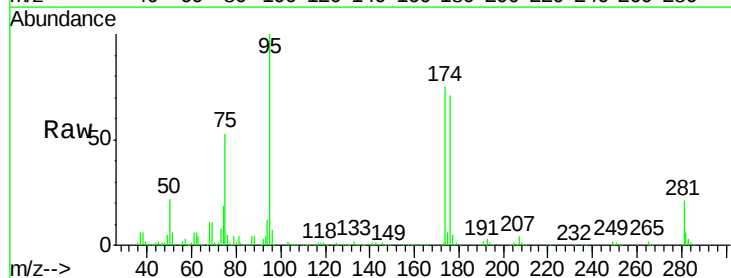
Instrument :
MSVOA_N
ClientSampleId :

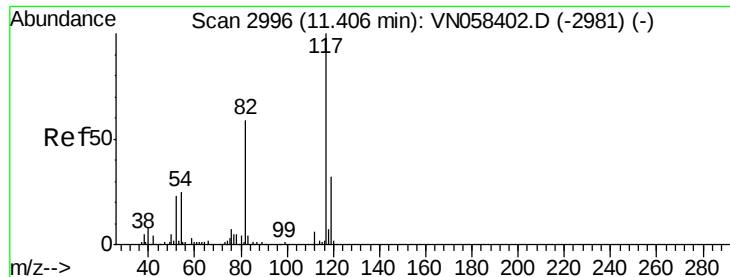
Tot Ion:129 Resp: 51490
Ion Ratio Lower Upper
129 100
127 0.0 38.3 114.8#



#62
4-Bromofluorobenzene
Concen: 49.256 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058542.D
Acq: 4 Oct 2019 15:47

Tgt Ion: 95 Resp: 285594
Ion Ratio Lower Upper
95 100
174 73.8 0.0 150.6
176 71.7 0.0 146.2

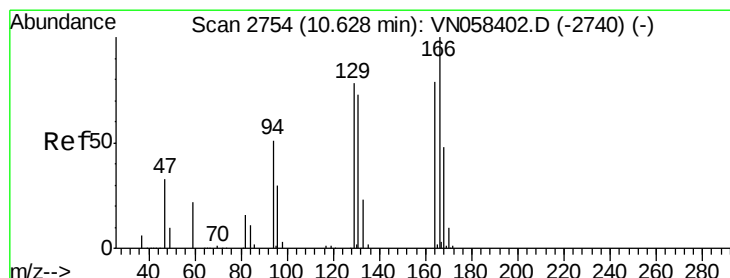
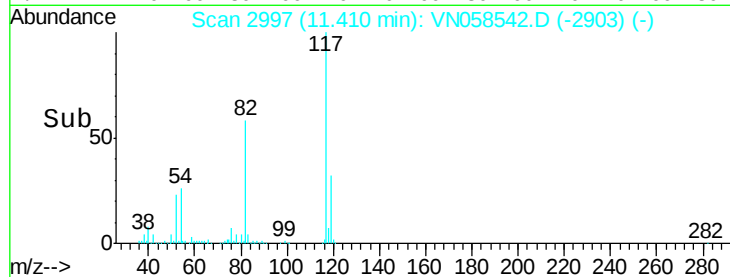
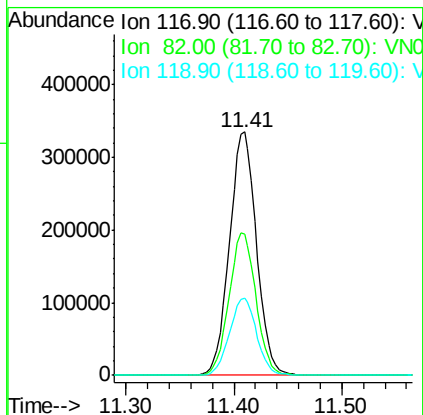
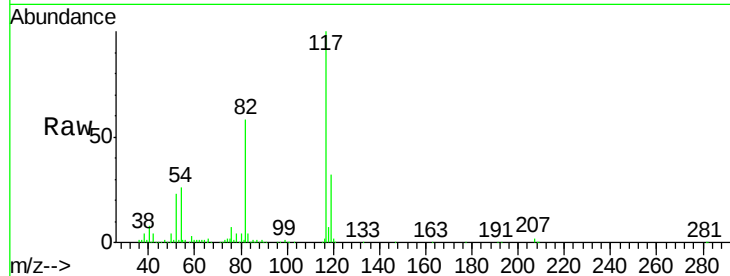




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058542.D
Acq: 4 Oct 2019 15:47

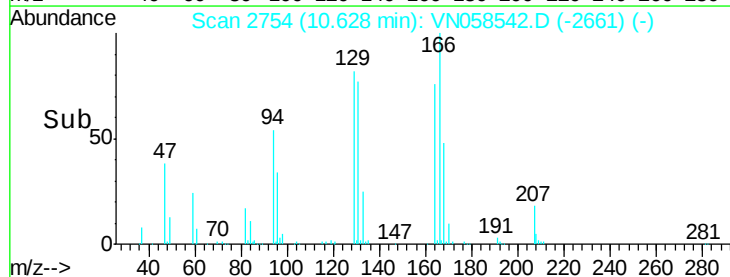
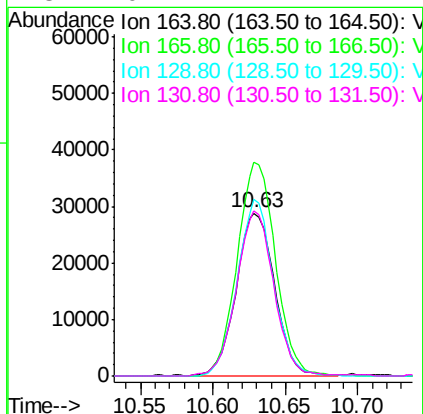
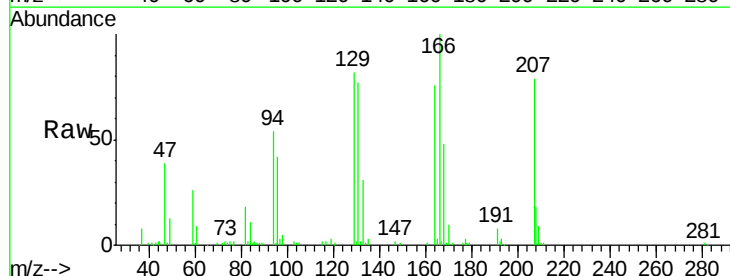
Instrument :
MSVOA_N
ClientSampled :

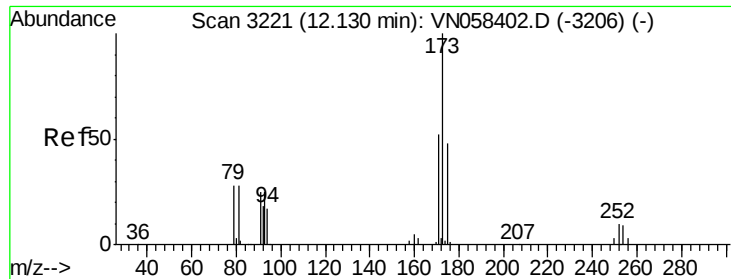
Tot Ion:117 Resp: 584783
Ion Ratio Lower Upper
117 100
82 58.0 47.4 71.0
119 31.8 25.5 38.3



#64
Tetrachloroethene
Concen: 14.330 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN058542.D
Acq: 4 Oct 2019 15:47

Tgt Ion:164 Resp: 53241
Ion Ratio Lower Upper
164 100
166 131.0 101.1 151.7
129 108.0 79.2 118.8
131 101.1 74.1 111.1

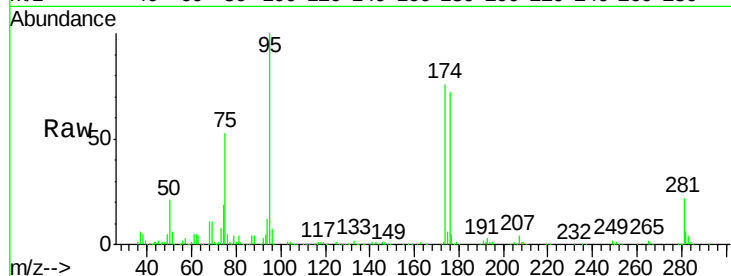




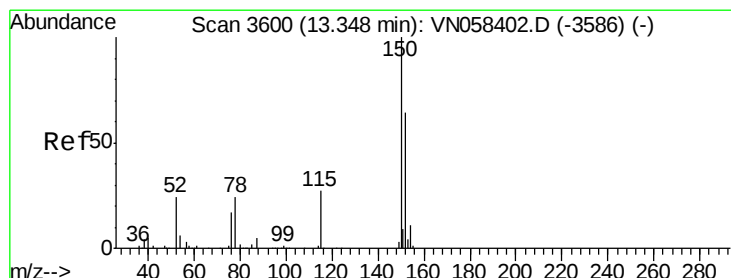
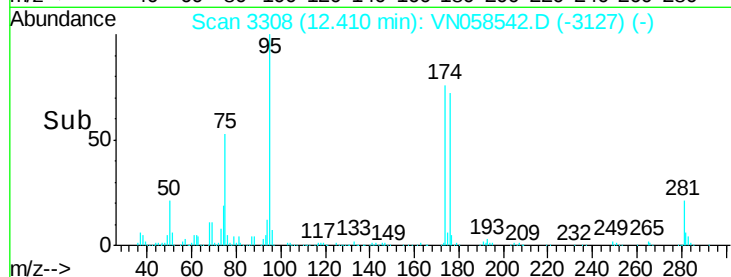
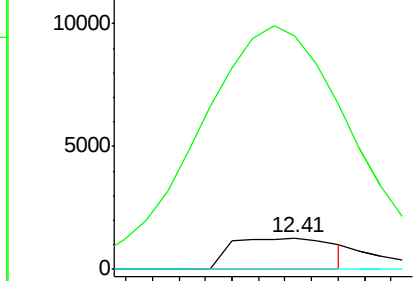
#71
Bromoform
Concen: 1.190 ug/l
RT: 12.41 min Scan# 3308
Delta R.T. 0.28 min
Lab File: VN058542.D
Acq: 4 Oct 2019 15:47

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:173 Resp: 1358
Ion Ratio Lower Upper
173 100
175 1014.7 24.3 73.0#
254 0.0 0.1 0.1#

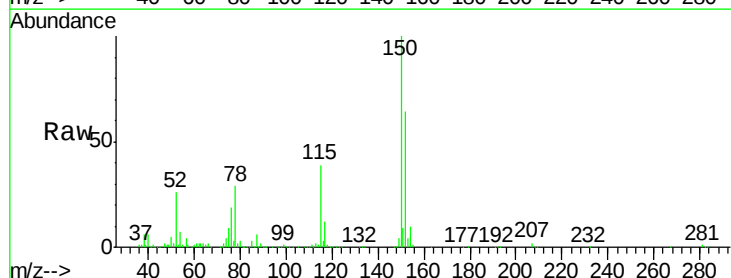


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

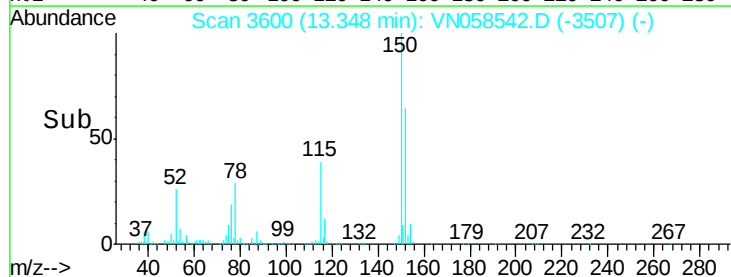
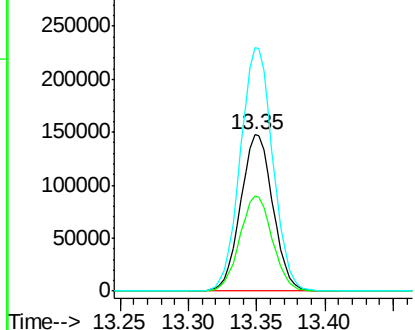


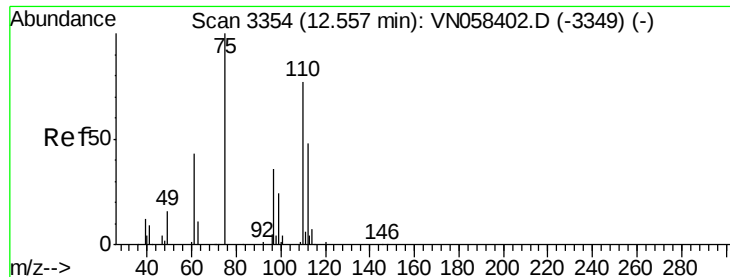
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. -0.00 min
Lab File: VN058542.D
Acq: 4 Oct 2019 15:47

Tgt Ion:152 Resp: 242752
Ion Ratio Lower Upper
152 100
115 61.5 30.0 90.0
150 156.6 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: 35.077 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058542.D

Acq: 4 Oct 2019 15:47

Instrument :

MSVOA_N

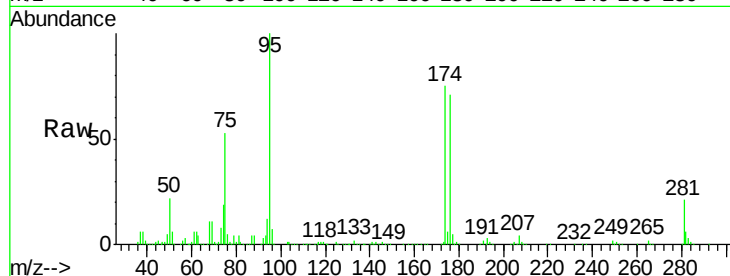
ClientSampled :

Tot Ion: 75 Resp: 155528

Ion Ratio Lower Upper

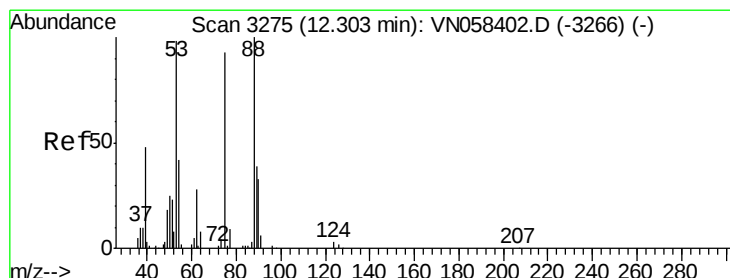
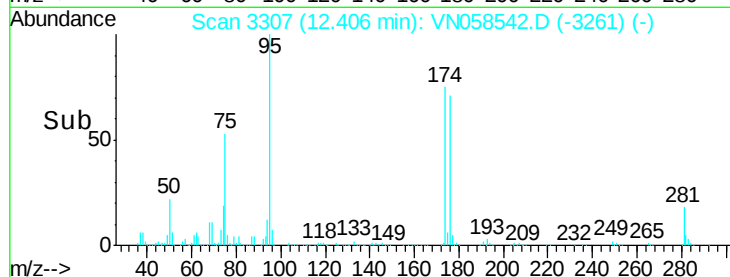
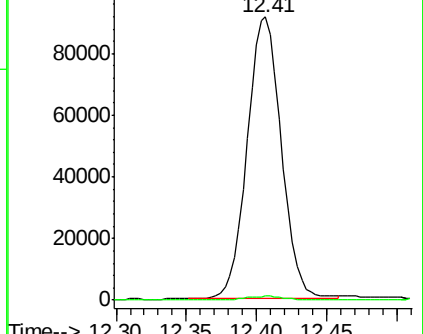
75 100

77 1.4 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: 106.534 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058542.D

Acq: 4 Oct 2019 15:47

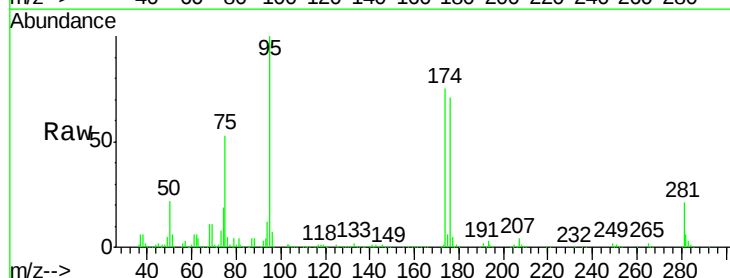
Tgt Ion: 75 Resp: 155528

Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

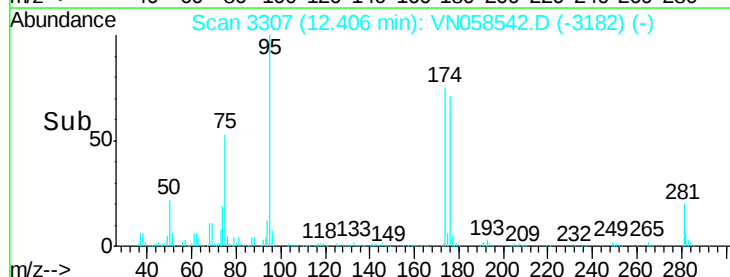
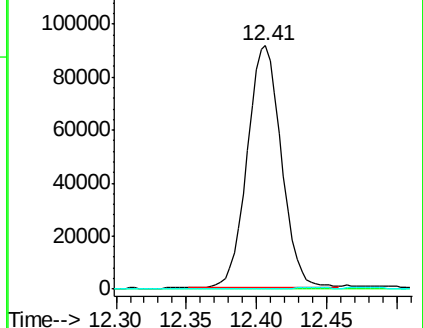
89 0.0 35.0 52.4#

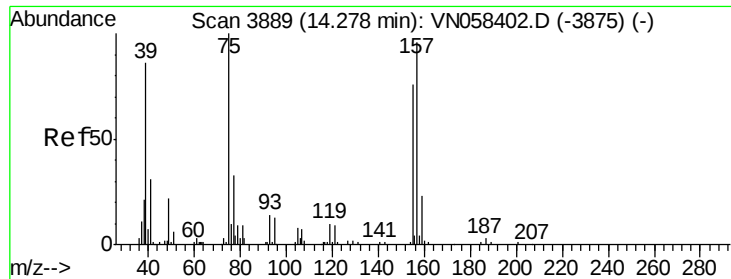


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.461 ug/l

RT: 14.27 min Scan# 3888

Delta R.T. -0.00 min

Lab File: VN058542.D

Acq: 4 Oct 2019 15:47

Instrument :

MSVOA_N

ClientSampled :

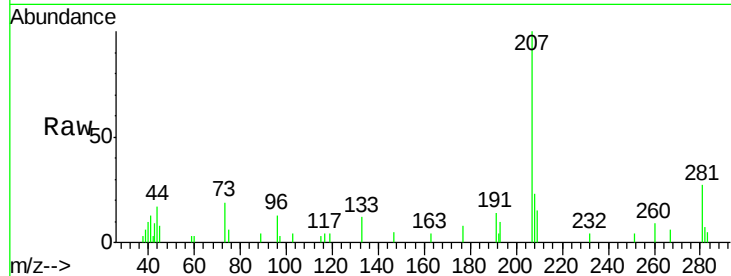
Tot Ion: 75 Resp: 431

Ion Ratio Lower Upper

75 100

155 0.0 39.2 117.6#

157 0.0 48.7 146.1#

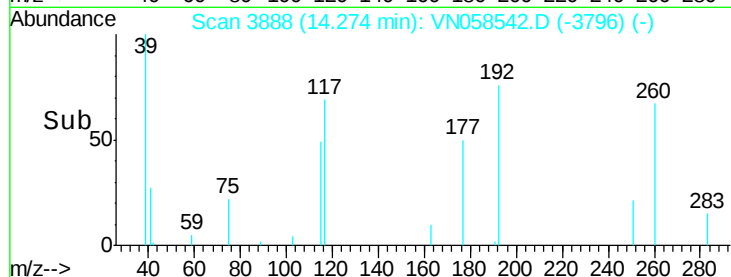


Abundance Ion 74.90 (74.60 to 75.60): VN058402.D (-3875) (-)

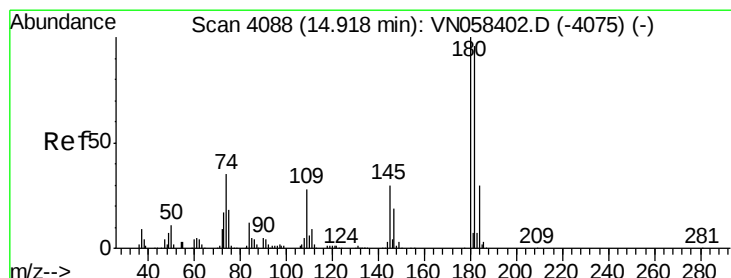
Ion 154.80 (154.50 to 155.50): VN058402.D (-3875) (-)

Ion 156.80 (156.50 to 157.50): VN058402.D (-3875) (-)

Time-->



Time-->



#93

1,2,4-Trichlorobenzene

Concen: 0.278 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.00 min

Lab File: VN058542.D

Acq: 4 Oct 2019 15:47

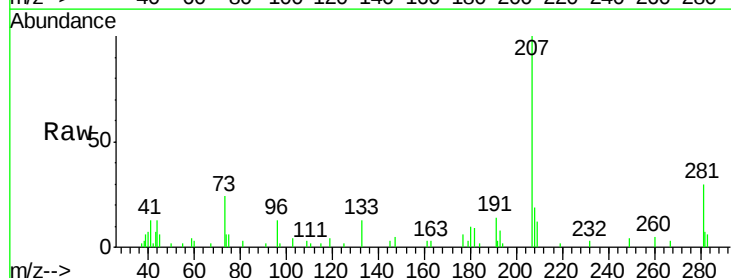
Tgt Ion: 180 Resp: 1127

Ion Ratio Lower Upper

180 100

182 95.0 47.4 142.3

145 22.7 15.3 45.9

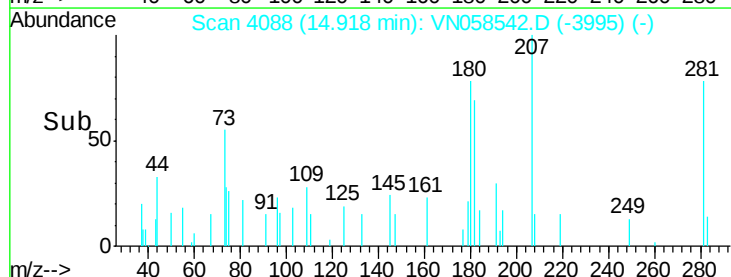


Abundance Ion 179.80 (179.50 to 180.50): VN058402.D (-4075) (-)

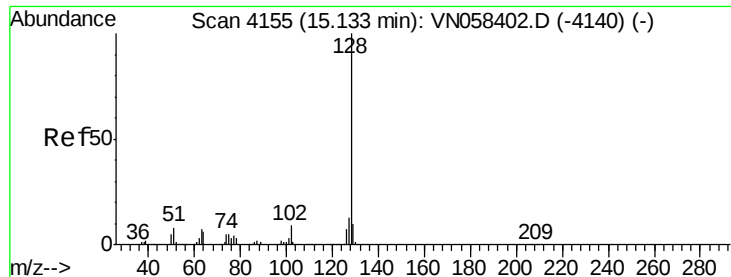
Ion 181.80 (181.50 to 182.50): VN058402.D (-4075) (-)

Ion 144.80 (144.50 to 145.50): VN058402.D (-4075) (-)

Time-->



Time-->



#95

Naphthalene

Concen: 0.241 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN058542.D

Acq: 4 Oct 2019 15:47

Instrument :

MSVOA_N

ClientSampleId :

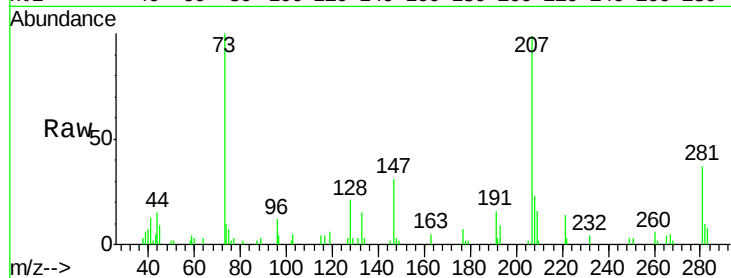
Tot Ion:128 Resp: 3206

Ion Ratio Lower Upper

128 100

127 10.5 10.2 15.4

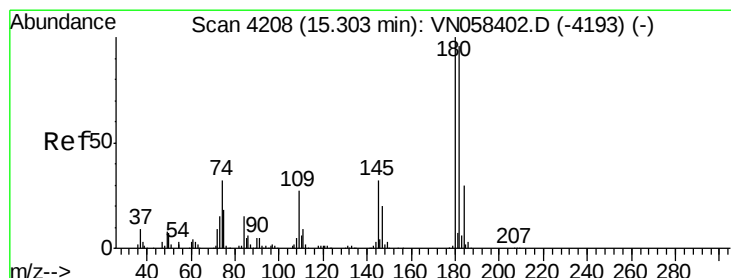
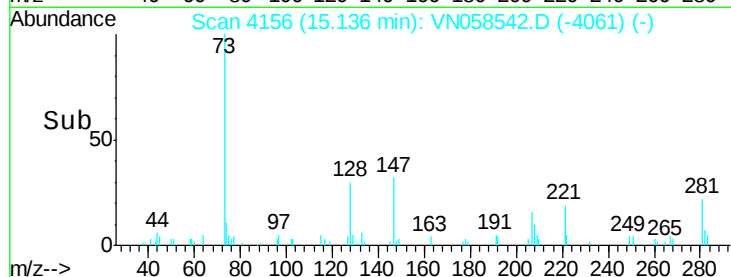
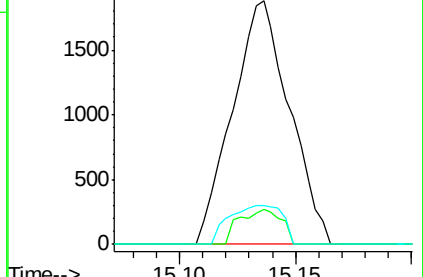
129 15.0 8.3 12.5#



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: 0.263 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. -0.00 min

Lab File: VN058542.D

Acq: 4 Oct 2019 15:47

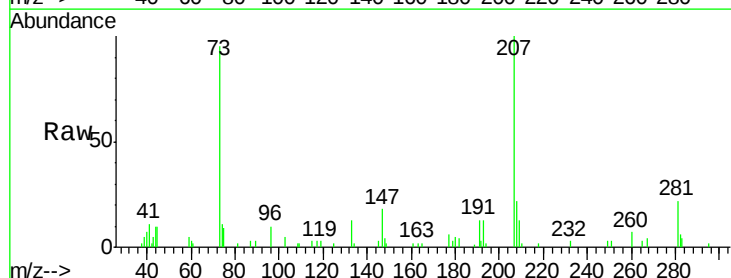
Tgt Ion:180 Resp: 1172

Ion Ratio Lower Upper

180 100

182 75.0 48.3 144.9

145 71.8 16.1 48.3#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

