

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN103019\
 Data File : VN059017.D
 Acq On : 30 Oct 2019 10:10
 Operator : JC/SP
 Sample : VN1030WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 31 01:24:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	435658	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	684578	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	606298	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	228981	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	306778	48.01	ug/l	0.00
Spiked Amount			Recovery	=	96.02%	
35) Dibromofluoromethane	7.57	113	228735	50.82	ug/l	0.00
Spiked Amount			Recovery	=	101.64%	
50) Toluene-d8	10.08	98	862677	49.37	ug/l	0.00
Spiked Amount			Recovery	=	98.74%	
62) 4-Bromofluorobenzene	12.40	95	277973	43.32	ug/l	0.00
Spiked Amount			Recovery	=	86.64%	

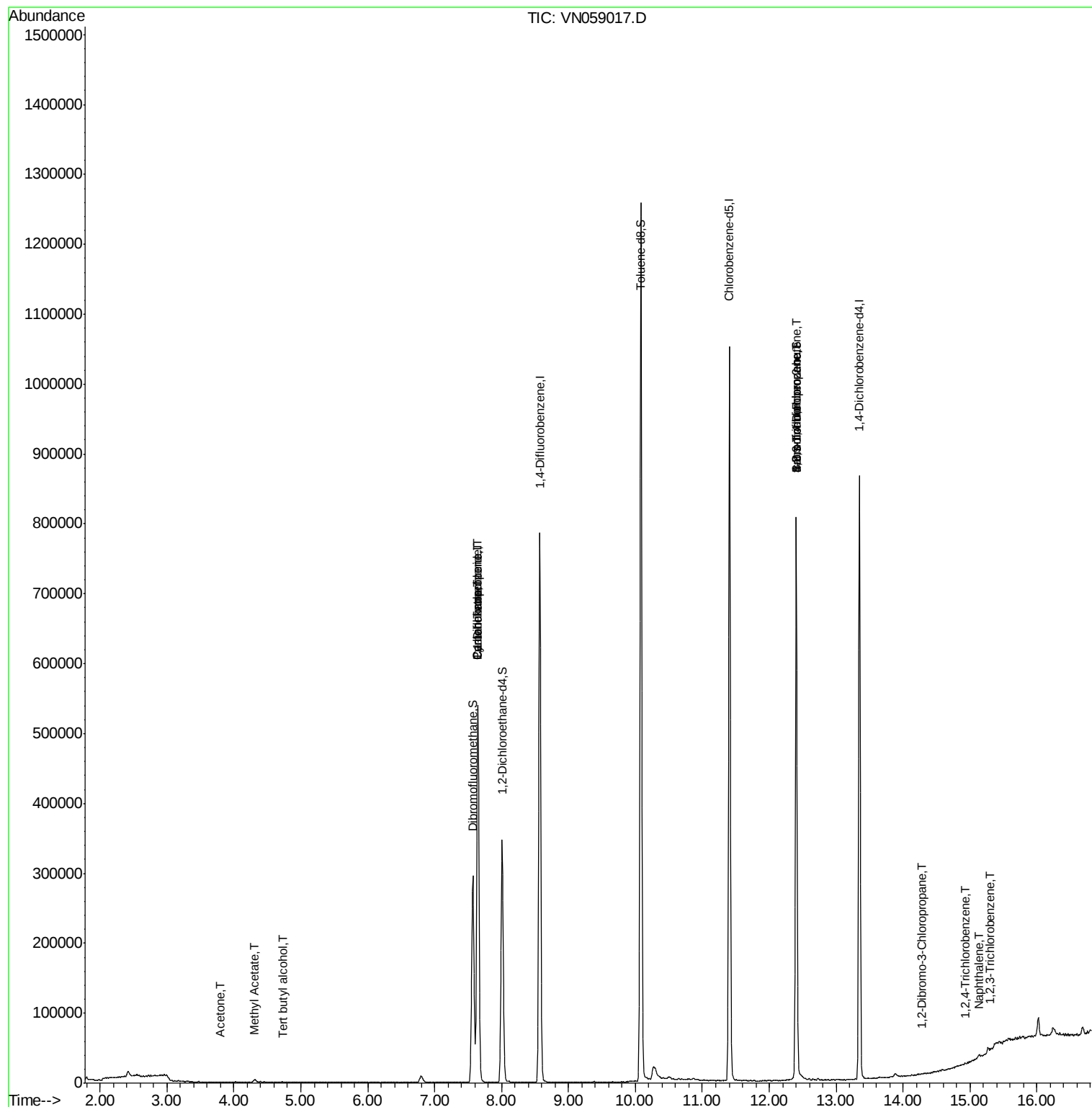
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	270	0.255	ug/l #	72
16) Acetone	3.80	43	664	0.210	ug/l #	46
18) Methyl Acetate	4.30	43	7927	1.104	ug/l #	82
31) Cyclohexane	7.65	56	9304	1.013	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	36039	5.142	ug/l #	51
38) Carbon Tetrachloride	7.65	117	41855	5.797	ug/l #	17
71) Bromoform	12.40	173	1579	0.437	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	142720	26.893	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	142720	70.059	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	14.28	75	308	0.231	ug/l #	7
93) 1,2,4-Trichlorobenzene	14.91	180	580	2.641	ug/l #	54
95) Naphthalene	15.14	128	2039	2.374	ug/l #	86
96) 1,2,3-Trichlorobenzene	15.30	180	811	2.568	ug/l	77

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

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 19 00:16:20 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059017.D

Acq: 30 Oct 2019 10:10

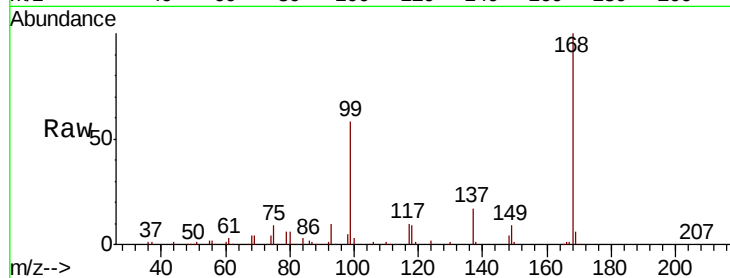
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 435658

Ion Ratio Lower Upper

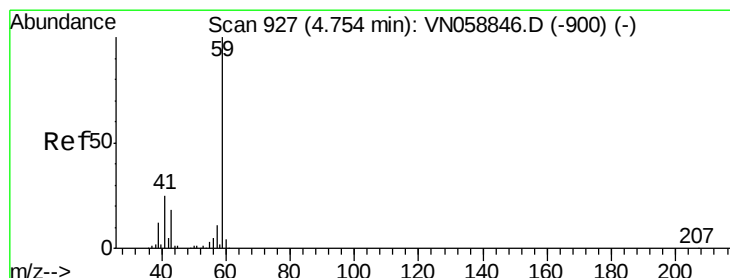
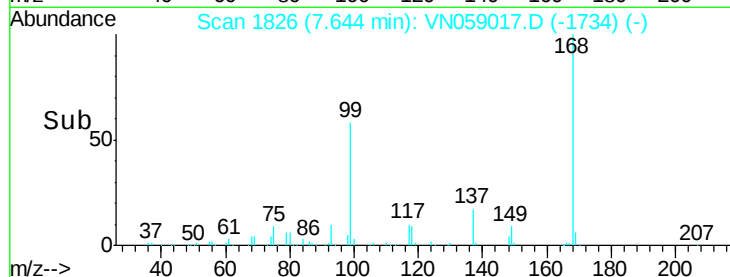
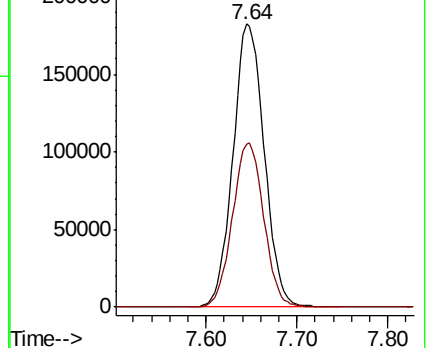
168 100

99 57.8 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 0.255 ug/l

RT: 4.75 min Scan# 925

Delta R.T. -0.01 min

Lab File: VN059017.D

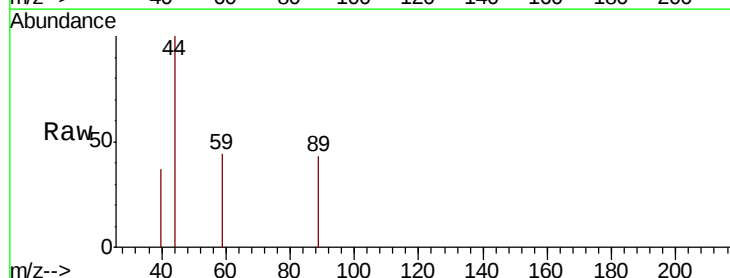
Acq: 30 Oct 2019 10:10

Tgt Ion: 59 Resp: 270

Ion Ratio Lower Upper

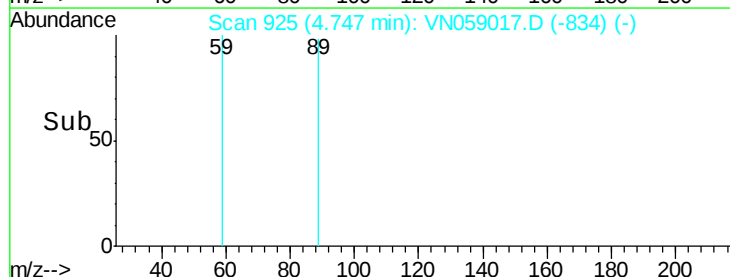
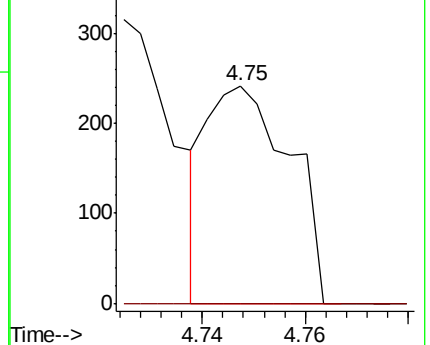
59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 0.210 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN059017.D

Acq: 30 Oct 2019 10:10

Instrument :

MSVOA_N

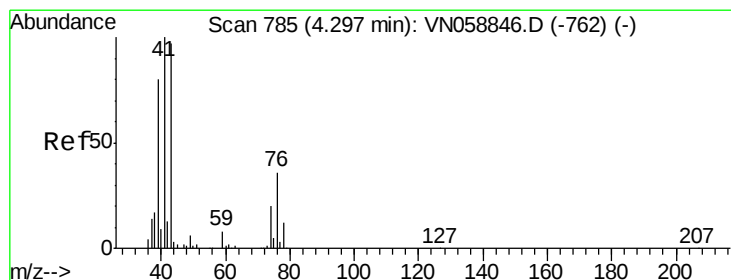
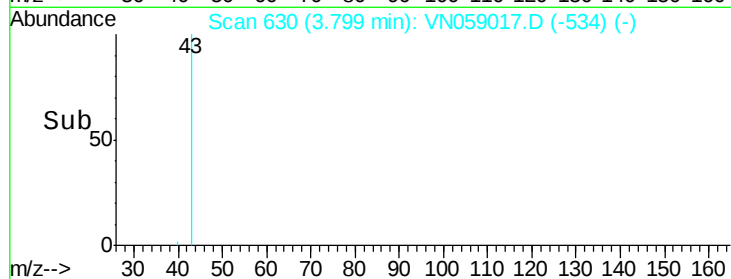
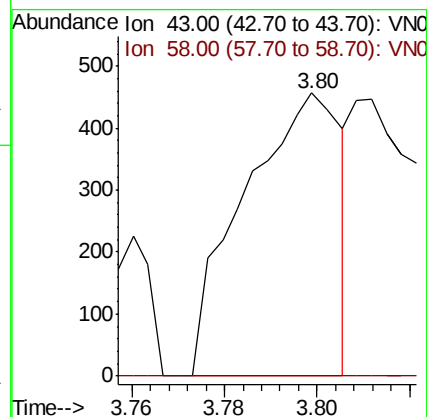
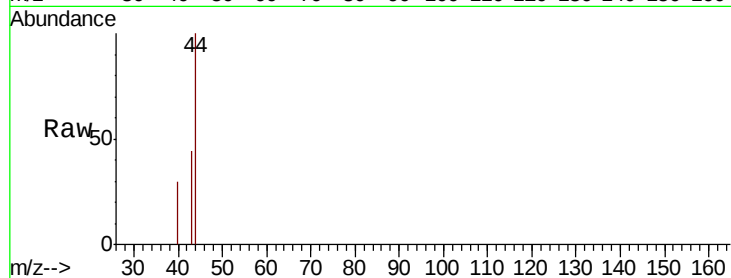
ClientSampleId :

Tot Ion: 43 Resp: 664

Ion Ratio Lower Upper

43 100

58 0.0 23.1 34.7#



#18

Methyl Acetate

Concen: 1.104 ug/l

RT: 4.30 min Scan# 787

Delta R.T. 0.01 min

Lab File: VN059017.D

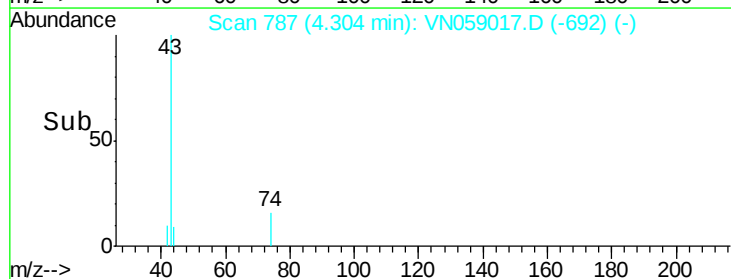
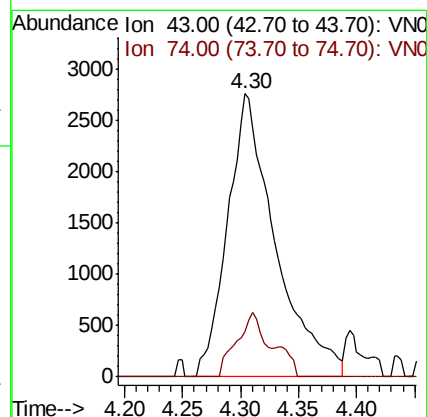
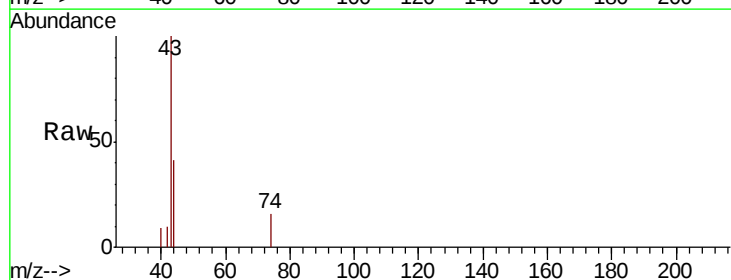
Acq: 30 Oct 2019 10:10

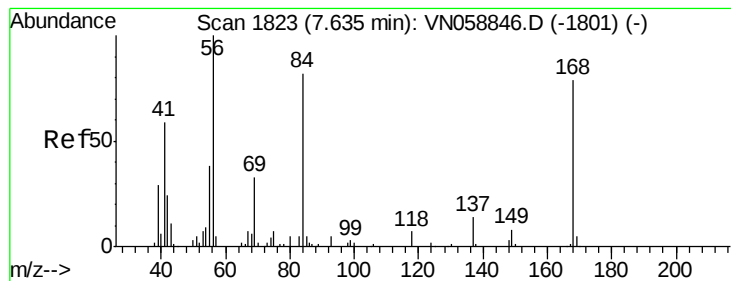
Tgt Ion: 43 Resp: 7927

Ion Ratio Lower Upper

43 100

74 12.8 17.1 25.7#





#31

Cyclohexane

Concen: 1.013 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN059017.D

Acq: 30 Oct 2019 10:10

Instrument :
MSVOA_N
ClientSampled :

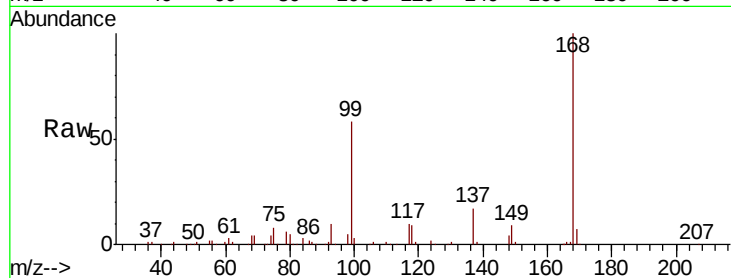
Tot Ion: 56 Resp: 9304

Ion Ratio Lower Upper

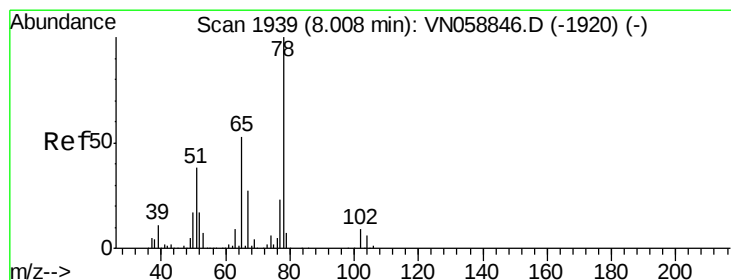
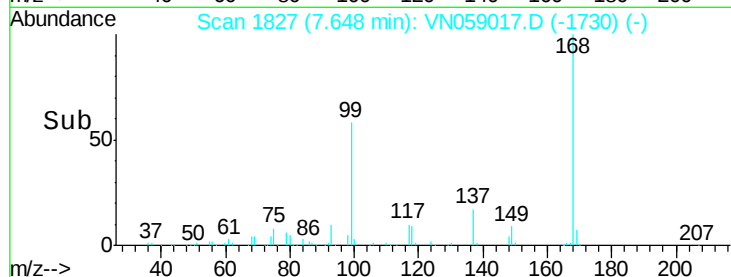
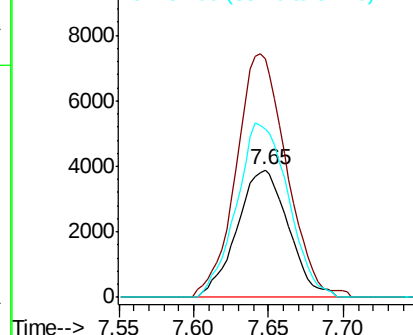
56 100

69 186.9 26.2 39.4#

84 131.5 65.6 98.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 48.012 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. -0.00 min

Lab File: VN059017.D

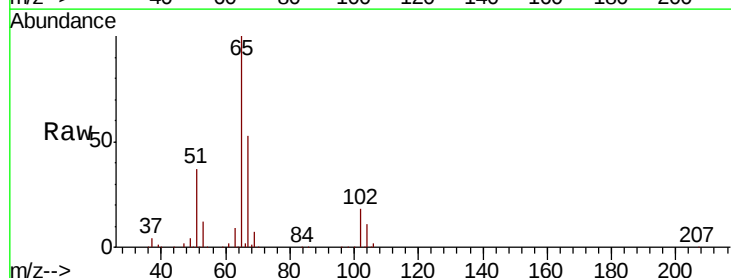
Acq: 30 Oct 2019 10:10

Tgt Ion: 65 Resp: 306778

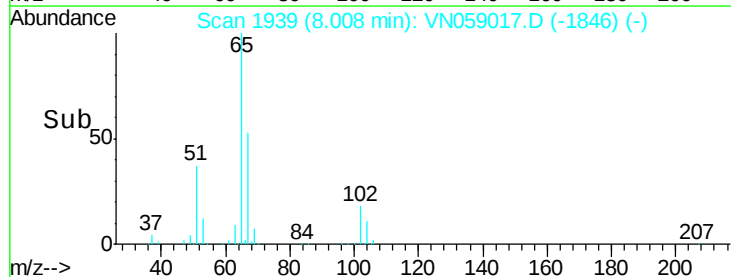
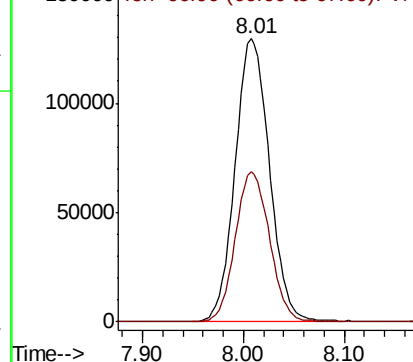
Ion Ratio Lower Upper

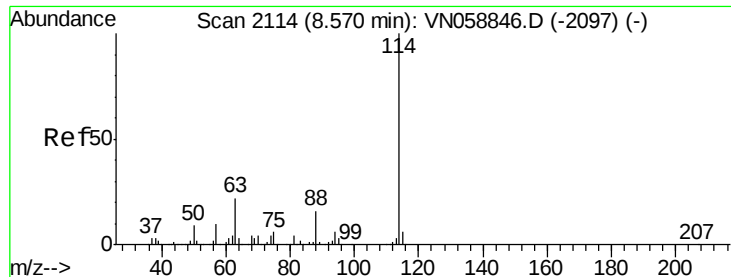
65 100

67 52.8 0.0 103.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

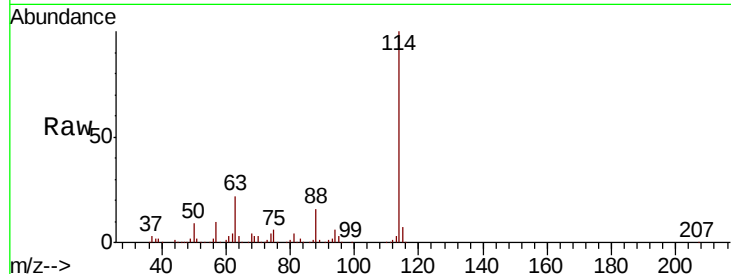




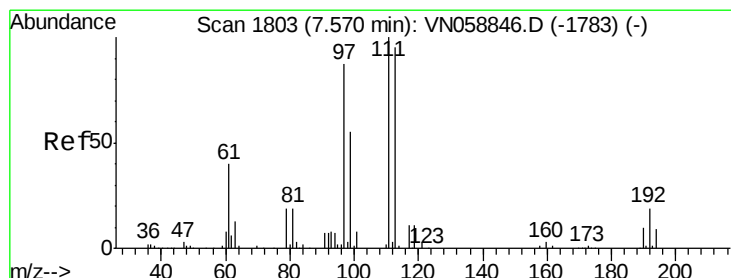
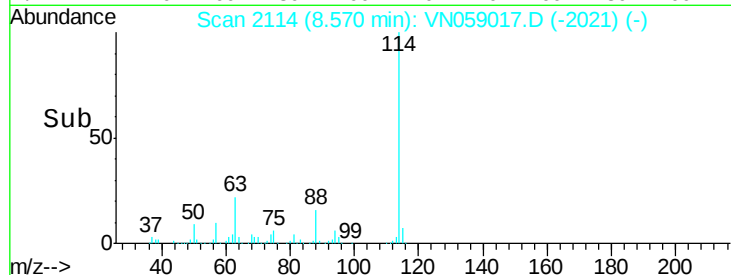
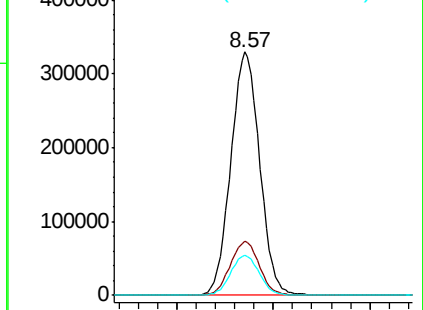
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN059017.D
 Acq: 30 Oct 2019 10:10

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	44.4
88	16.5	0.0	31.4

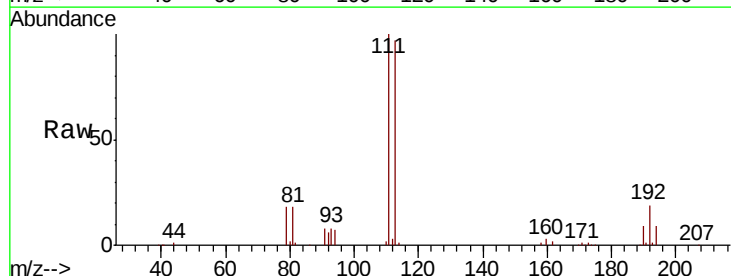


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

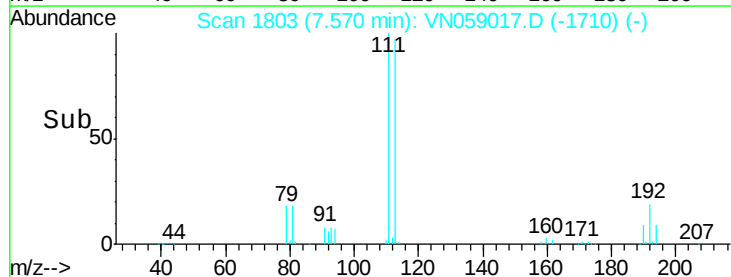
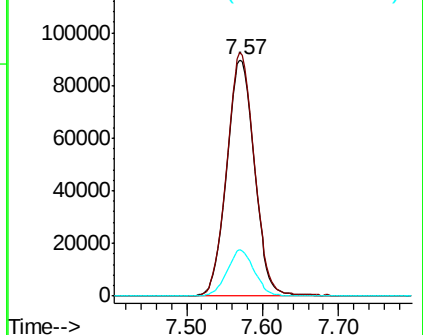


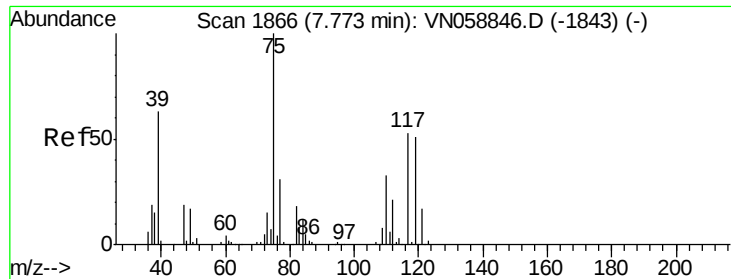
#35
 Dibromofluoromethane
 Concen: 50.820 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN059017.D
 Acq: 30 Oct 2019 10:10

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.9	82.0	123.0
192	19.1	15.0	22.6



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

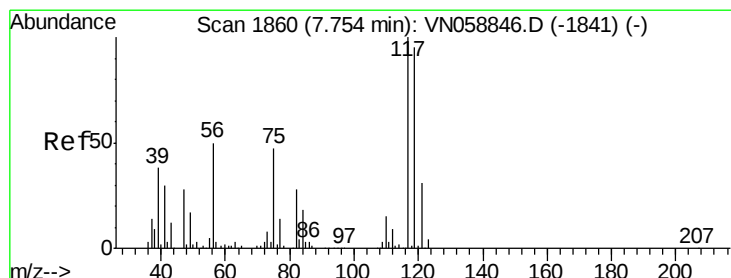
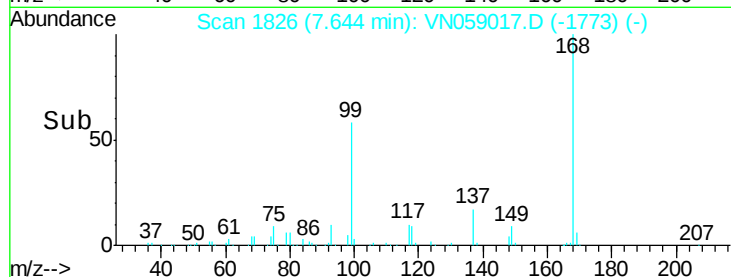
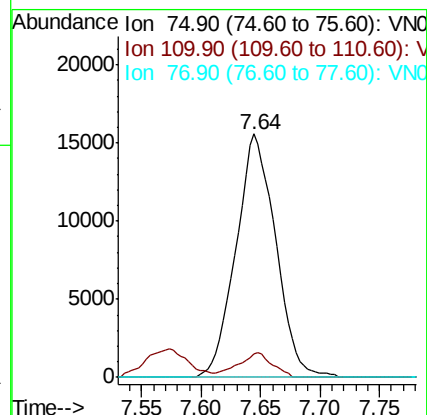
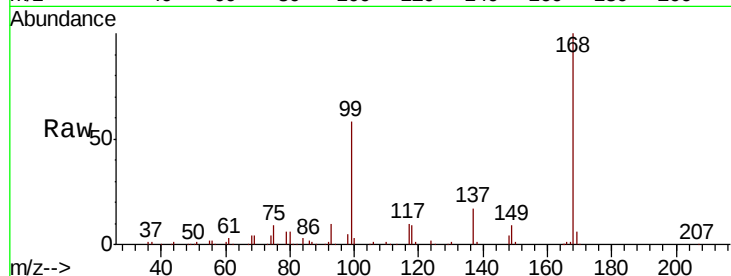




#36
 1,1-Dichloropropene
 Concen: 5.142 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059017.D
 Acq: 30 Oct 2019 10:10

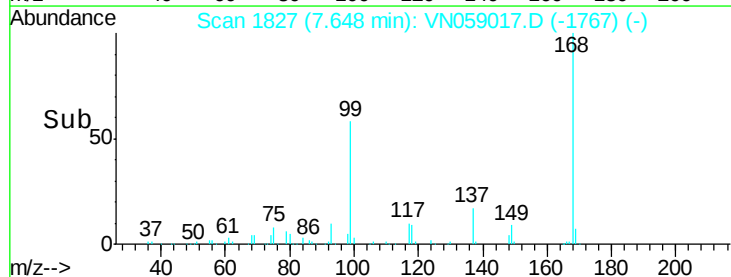
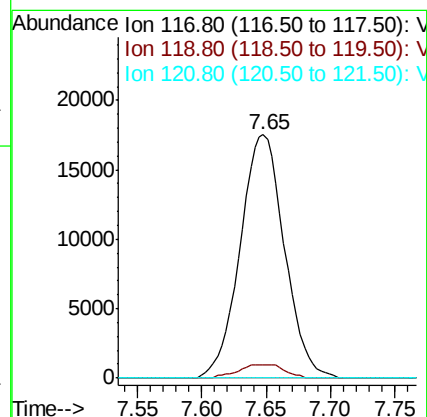
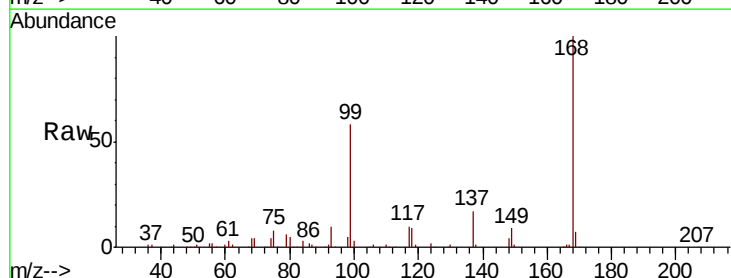
Instrument :
 MSVOA_N
 ClientSampleId :

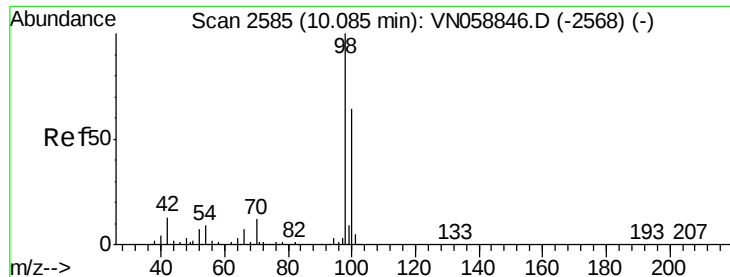
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.6	16.3	48.9#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.797 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN059017.D
 Acq: 30 Oct 2019 10:10

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.3	75.7	113.5#
121	0.0	25.0	37.6#





#50

Toluene-d8

Concen: 49.375 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. -0.00 min

Lab File: VN059017.D

Acq: 30 Oct 2019 10:10

Instrument :

MSVOA_N

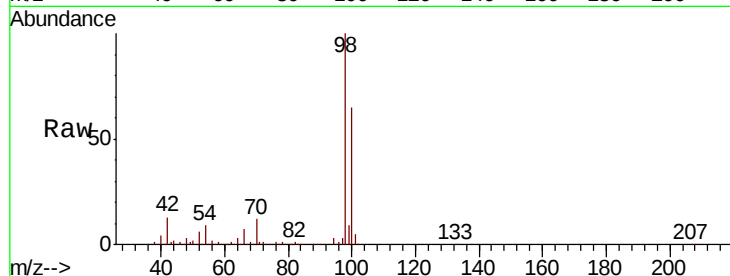
ClientSampleId :

Tot Ion: 98 Resp: 862677

Ion Ratio Lower Upper

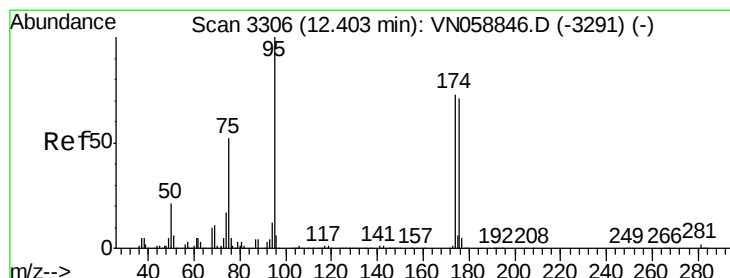
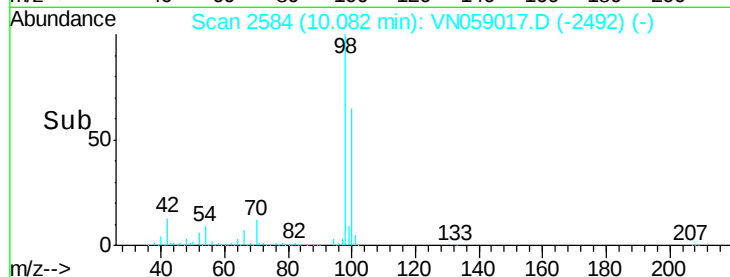
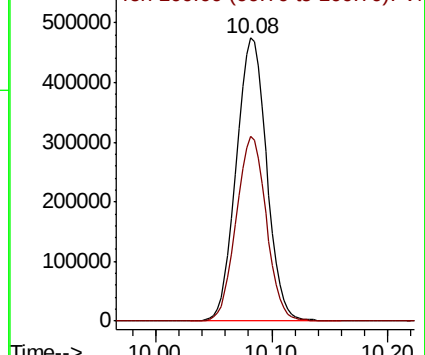
98 100

100 64.6 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#62

4-Bromofluorobenzene

Concen: 43.324 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN059017.D

Acq: 30 Oct 2019 10:10

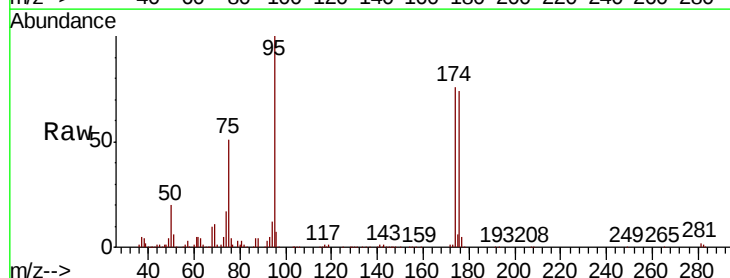
Tgt Ion: 95 Resp: 277973

Ion Ratio Lower Upper

95 100

174 77.1 0.0 147.6

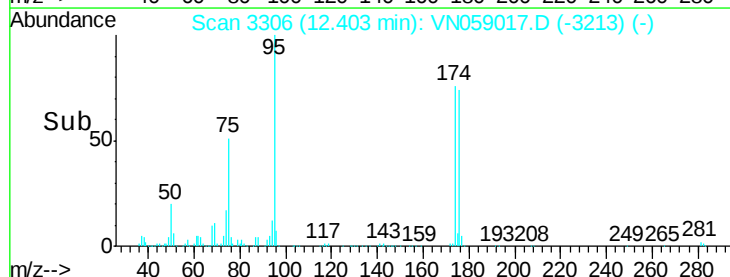
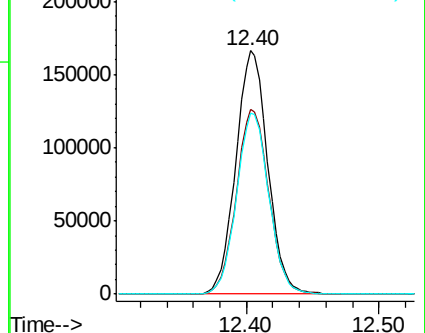
176 75.2 0.0 143.2

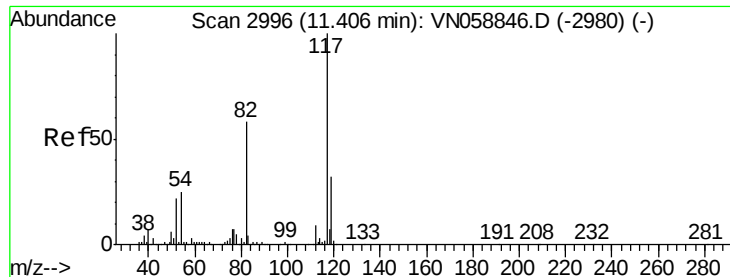


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

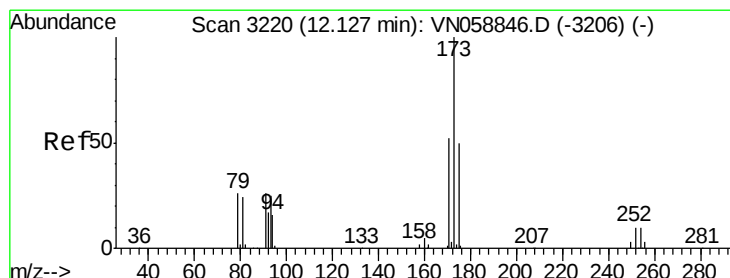
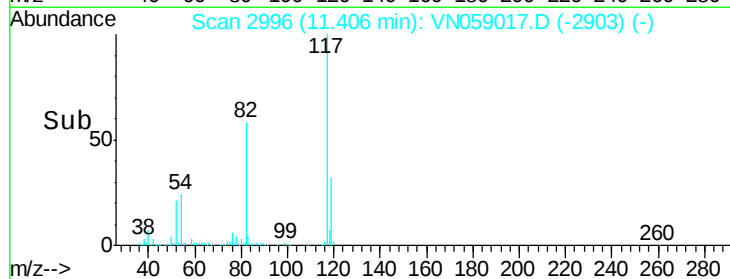
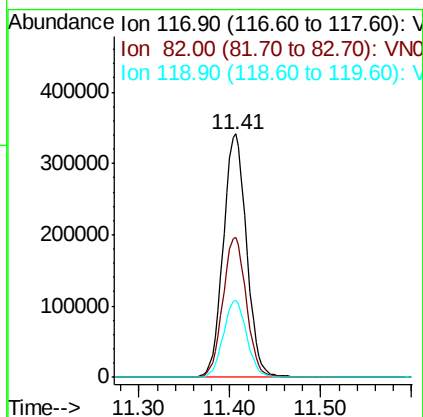
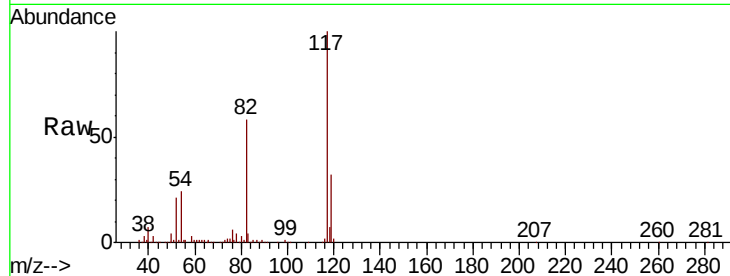




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN059017.D
Acq: 30 Oct 2019 10:10

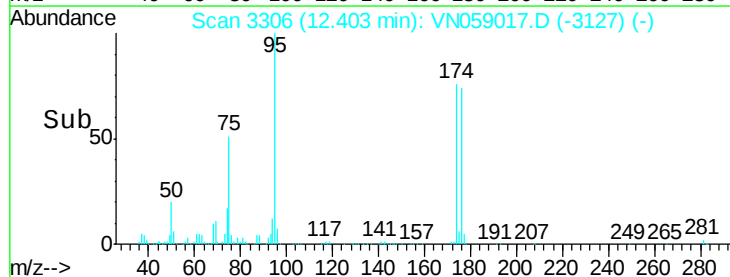
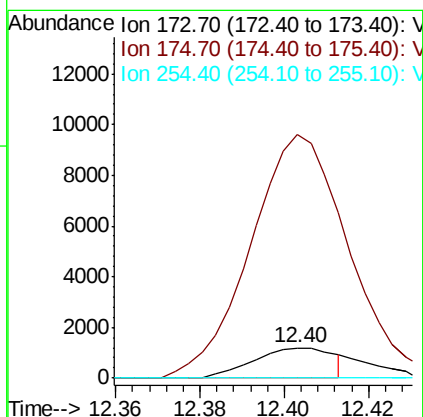
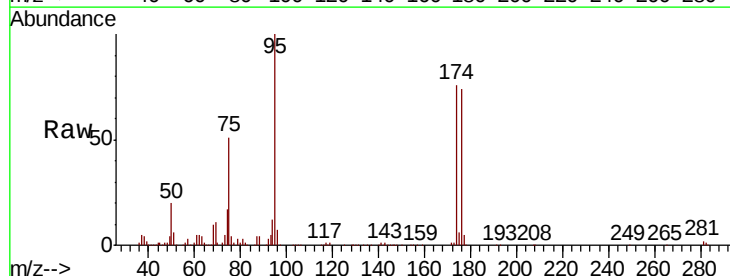
Instrument :
MSVOA_N
ClientSampled :

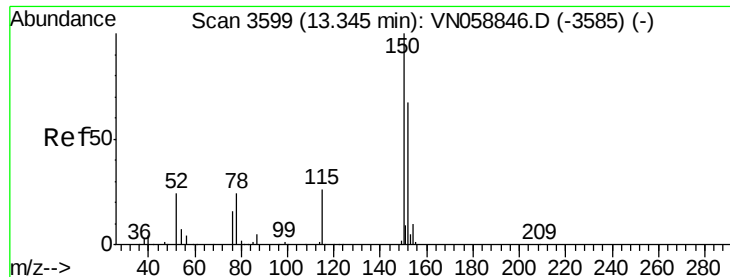
Tot Ion:117 Resp: 606298
Ion Ratio Lower Upper
117 100
82 57.6 46.6 69.8
119 31.7 25.6 38.4



#71
Bromoform
Concen: 0.437 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN059017.D
Acq: 30 Oct 2019 10:10

Tgt Ion:173 Resp: 1579
Ion Ratio Lower Upper
173 100
175 815.6 24.7 74.1#
254 0.0 0.0 0.0



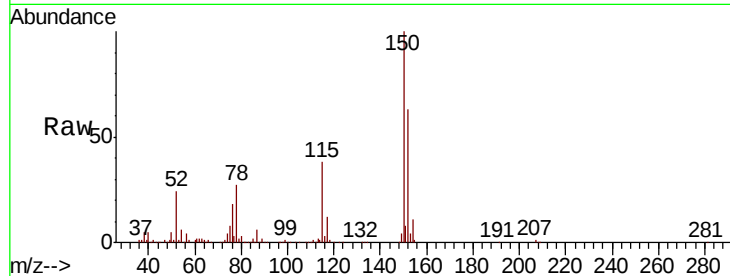


#72

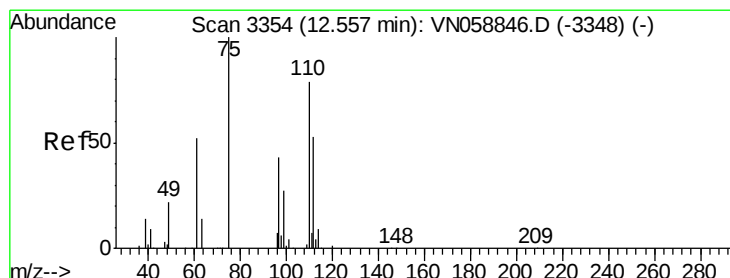
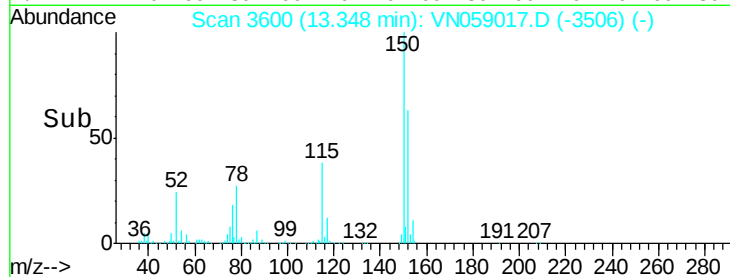
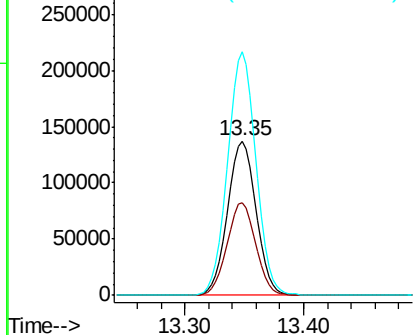
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN059017.D
Acq: 30 Oct 2019 10:10

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	60.2	30.5	91.5
150	156.4	0.0	344.4



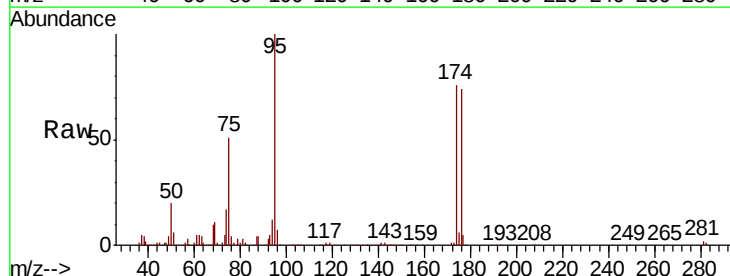
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



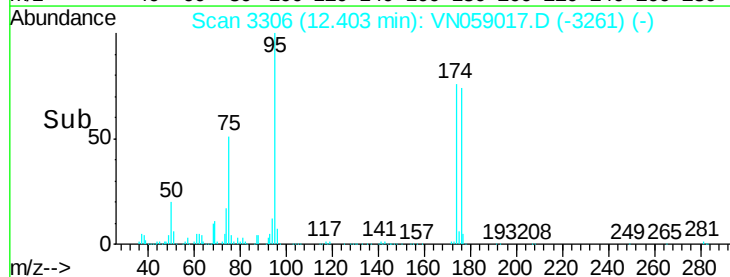
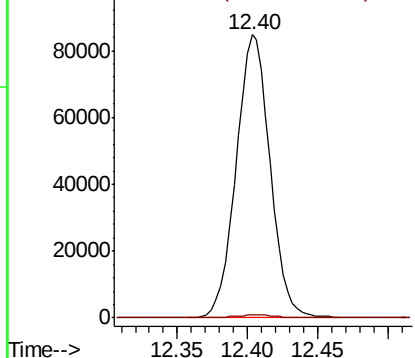
#76

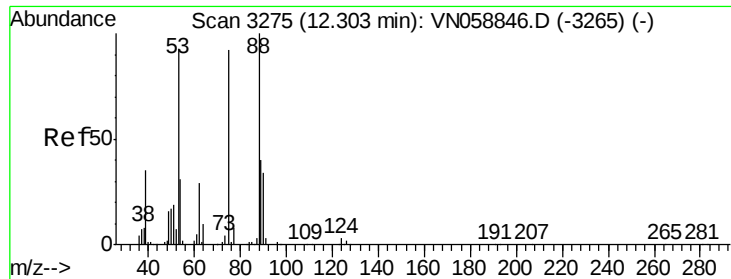
1,2,3-Trichloropropane
Concen: 26.893 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN059017.D
Acq: 30 Oct 2019 10:10

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.2	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: 70.059 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN059017.D

Acq: 30 Oct 2019 10:10

Instrument :

MSVOA_N

ClientSampleId :

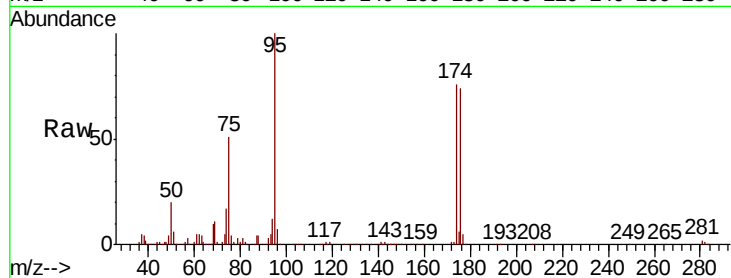
Tot Ion: 75 Resp: 142720

Ion Ratio Lower Upper

75 100

53 0.0 78.6 118.0#

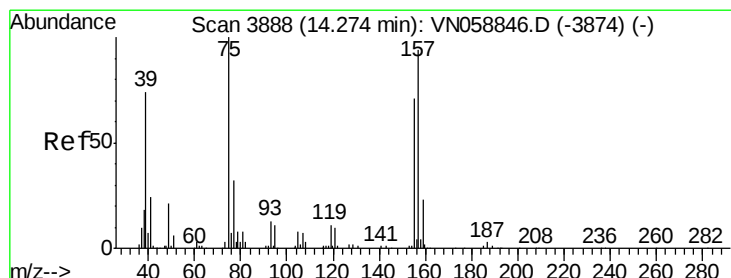
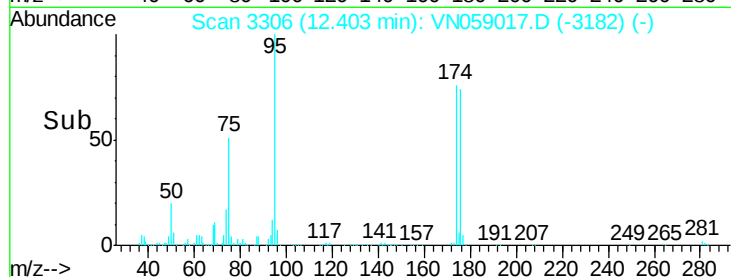
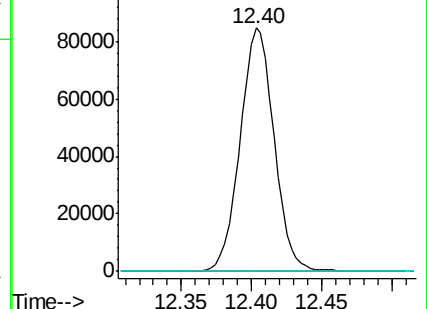
89 0.0 35.4 53.0#



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: 0.231 ug/l

RT: 14.28 min Scan# 3890

Delta R.T. 0.01 min

Lab File: VN059017.D

Acq: 30 Oct 2019 10:10

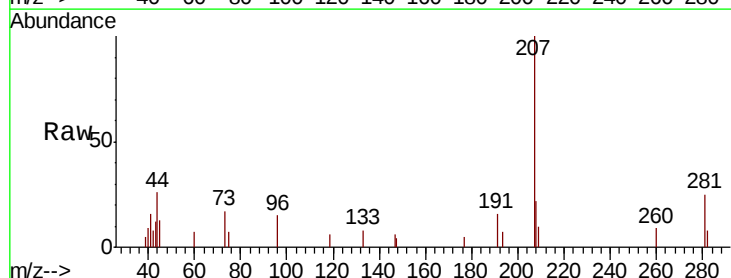
Tgt Ion: 75 Resp: 308

Ion Ratio Lower Upper

75 100

155 0.0 35.6 106.8#

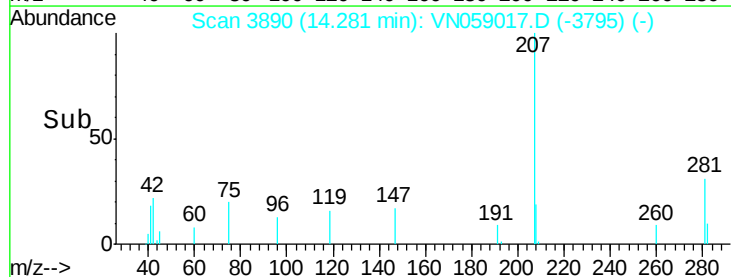
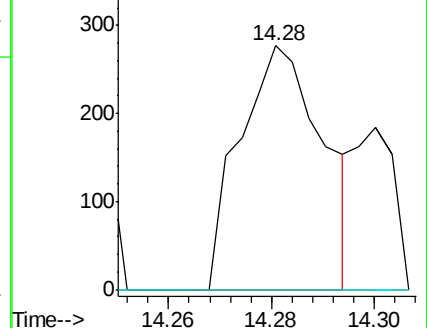
157 0.0 47.4 142.2#

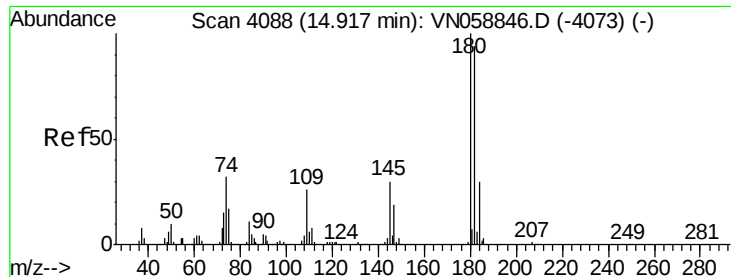


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

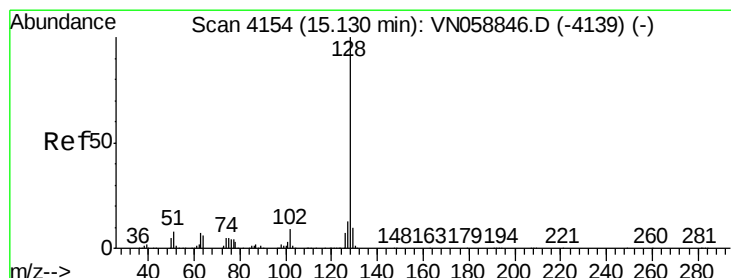
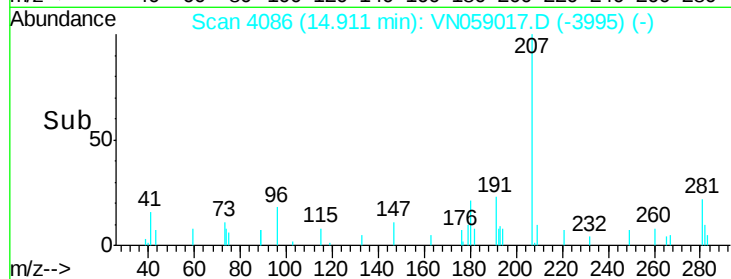
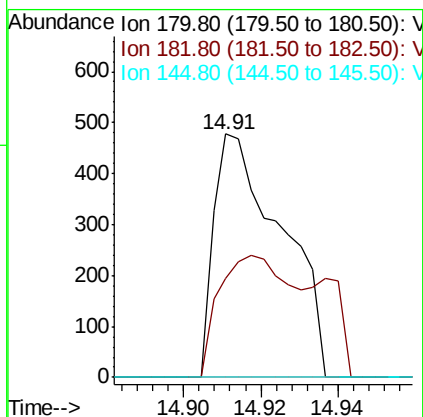
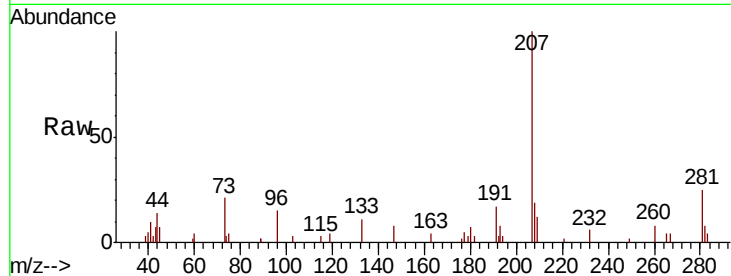




#93
 1,2,4-Trichlorobenzene
 Concen: 2.641 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. -0.01 min
 Lab File: VN059017.D
 Acq: 30 Oct 2019 10:10

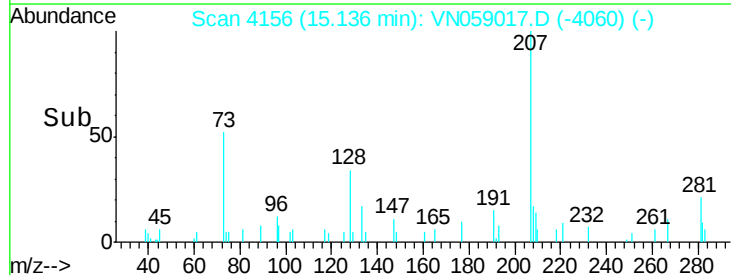
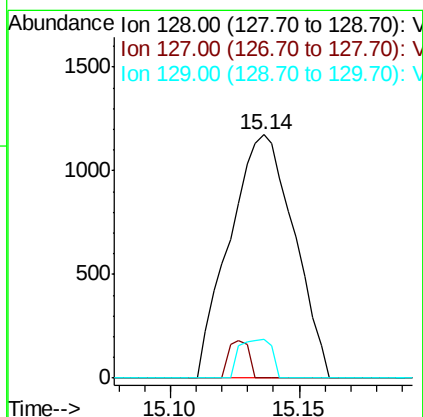
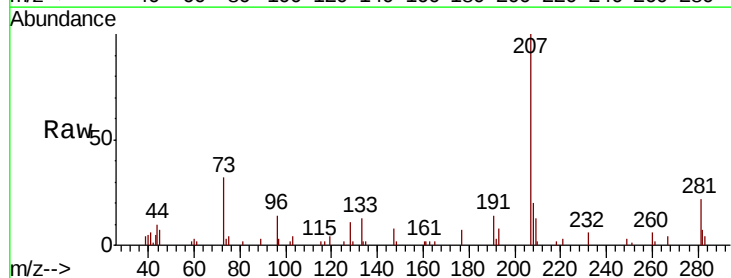
Instrument :
 MSVOA_N
 ClientSampleId :

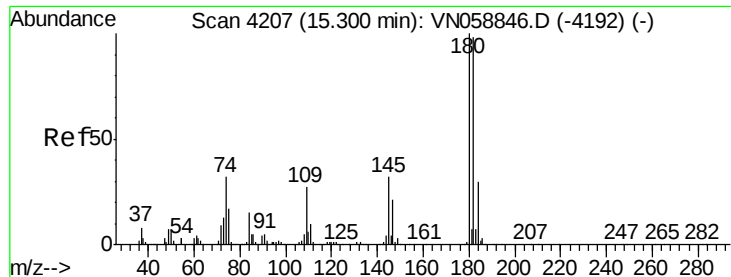
Tot Ion:180 Resp: 580
 Ion Ratio Lower Upper
 180 100
 182 53.3 47.3 142.0
 145 0.0 15.3 45.8#



#95
 Naphthalene
 Concen: 2.374 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.01 min
 Lab File: VN059017.D
 Acq: 30 Oct 2019 10:10

Tgt Ion:128 Resp: 2039
 Ion Ratio Lower Upper
 128 100
 127 4.8 10.2 15.2#
 129 8.0 8.4 12.6#

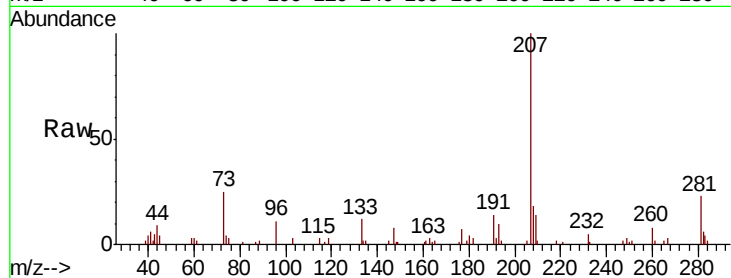




#96
 1,2,3-Trichlorobenzene
 Concen: 2.568 ug/l
 RT: 15.30 min Scan# 4208
 Delta R.T. 0.00 min
 Lab File: VN059017.D
 Acq: 30 Oct 2019 10:10

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	72.4	47.9	143.7
145	21.3	15.9	47.7



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

