

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061120\
 Data File : VN061747.D
 Acq On : 11 Jun 2020 15:17
 Operator : JC/MD
 Sample : L2988-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 12 05:11:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

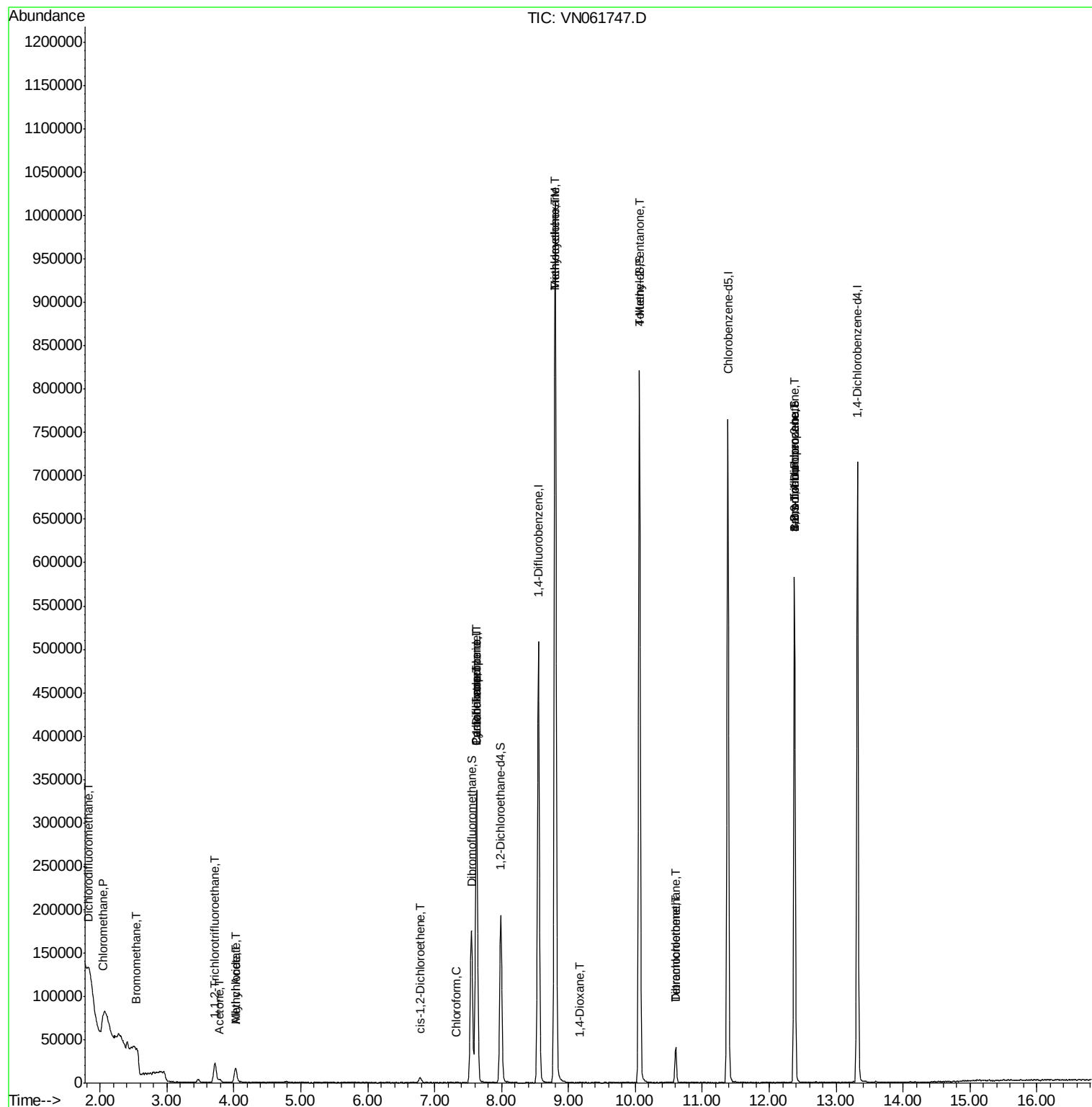
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	293110	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	489746	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	478071	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	204808	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	160032	45.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.66%	
35) Dibromofluoromethane	7.55	113	136660	55.01	ug/l	0.00
Spiked Amount 50.000			Recovery	=	110.02%	
50) Toluene-d8	10.06	98	589780	51.23	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.46%	
62) 4-Bromofluorobenzene	12.38	95	200271	47.68	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.36%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.83	85	2192	1.781	ug/l	96
3) Chloromethane	2.04	50	1141	0.319	ug/l #	86
5) Bromomethane	2.55	94	751	0.267	ug/l #	75
9) 1,1,2-Trichlorotrifluoroet	3.72	101	14353	5.120	ug/l	95
14) Allyl chloride	4.03	41	2963	0.757	ug/l #	70
16) Acetone	3.78	43	6728	0.810	ug/l #	87
18) Methyl Acetate	4.02	43	6302	1.993	ug/l #	46
20) Methylene Chloride	4.50	84	231	Below Cal	#	11
27) cis-1,2-Dichloroethene	6.78	96	3927	1.027	ug/l	93
30) Chloroform	7.33	83	1251	0.207	ug/l	91
31) Cyclohexane	7.63	56	5131	1.043	ug/l #	12
36) 1,1-Dichloropropene	7.63	75	20163	4.651	ug/l #	49
38) Carbon Tetrachloride	7.63	117	27934	6.680	ug/l #	16
39) Methylcyclohexane	8.80	83	4742	0.887	ug/l #	1
44) Trichloroethene	8.80	130	401089	97.563	ug/l	96
49) 1,4-Dioxane	9.17	88	784	17.904	ug/l #	92
51) 4-Methyl-2-Pentanone	10.06	43	1919	0.542	ug/l #	1
60) Dibromochloromethane	10.60	129	8380	2.119	ug/l #	11
64) Tetrachloroethene	10.60	164	10138	2.253	ug/l	94
71) Bromoform	12.37	173	1472	0.516	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	97857	26.276	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	97857	67.195	ug/l #	15

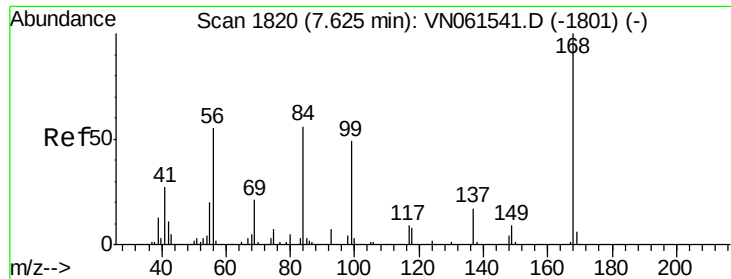
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061747.D

Acq: 11 Jun 2020 15:17

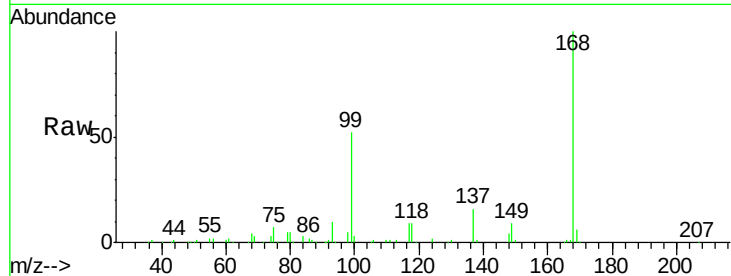
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 293110

Ion Ratio Lower Upper

168 100

99 52.2 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

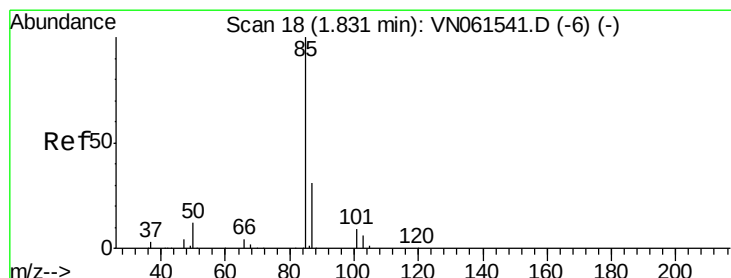
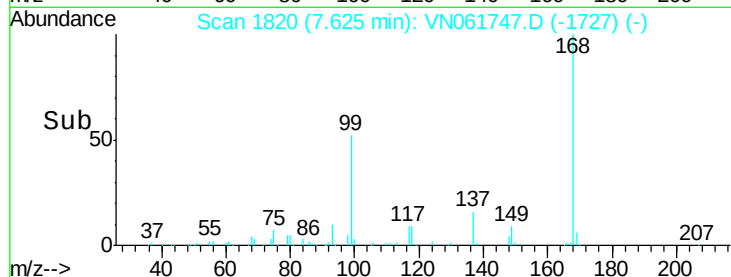
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#2

Dichlorodifluoromethane

Concen: 1.781 ug/l

RT: 1.83 min Scan# 18

Delta R.T. 0.00 min

Lab File: VN061747.D

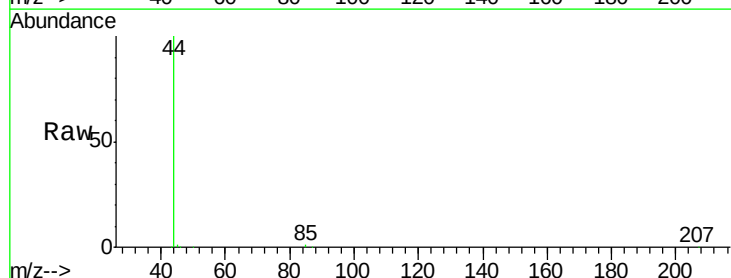
Acq: 11 Jun 2020 15:17

Tgt Ion: 85 Resp: 2192

Ion Ratio Lower Upper

85 100

87 29.0 15.6 46.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

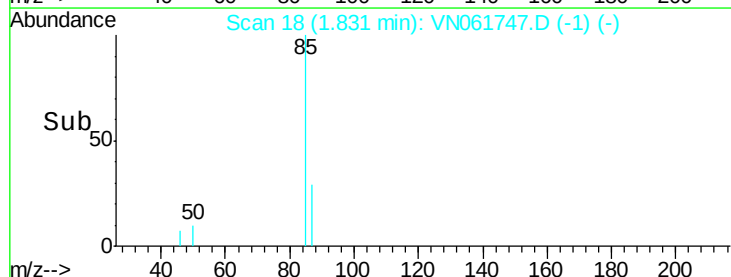
1500

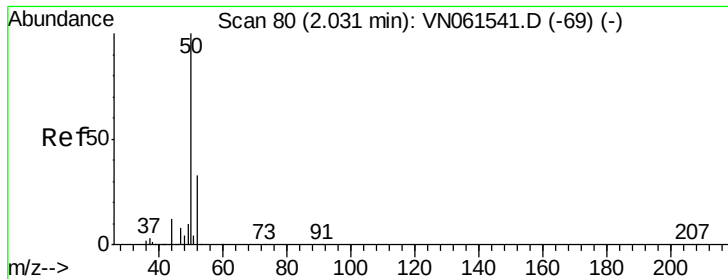
1000

500

0

Time--> 1.80 1.82 1.84 1.86





#3

Chloromethane

Concen: 0.319 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.01 min

Lab File: VN061747.D

Acq: 11 Jun 2020 15:17

Instrument :

MSVOA_N

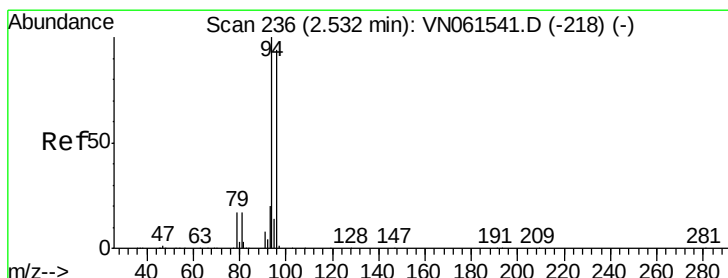
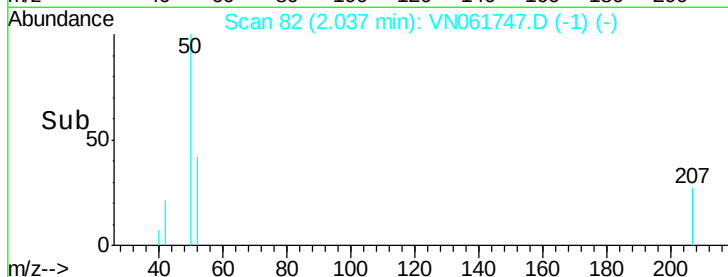
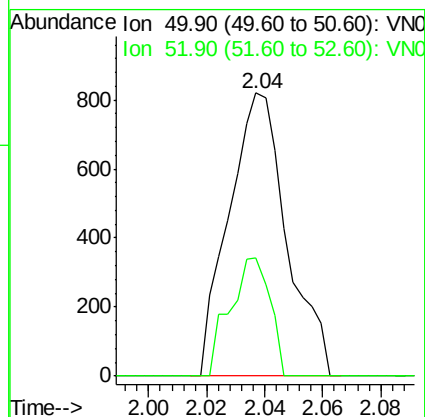
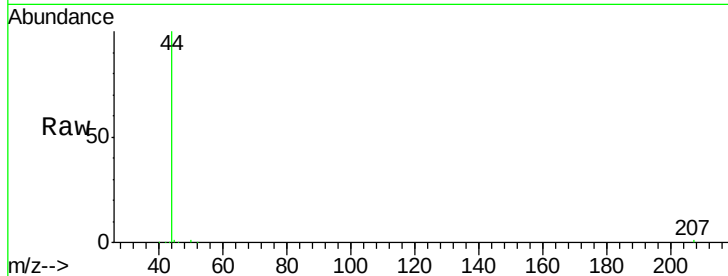
ClientSampled :

Tot Ion: 50 Resp: 1141

Ion Ratio Lower Upper

50 100

52 41.6 26.7 40.1#



#5

Bromomethane

Concen: 0.267 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.02 min

Lab File: VN061747.D

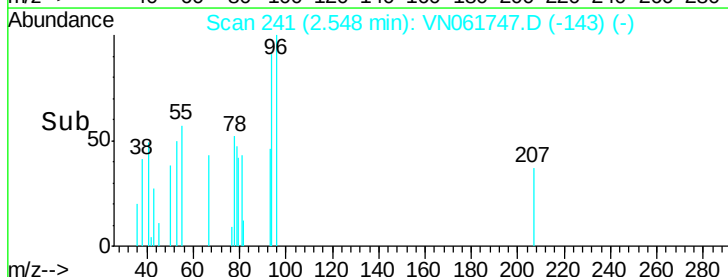
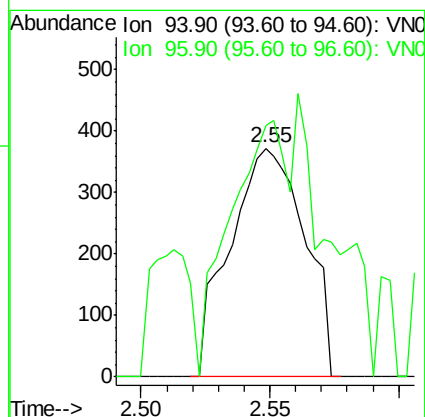
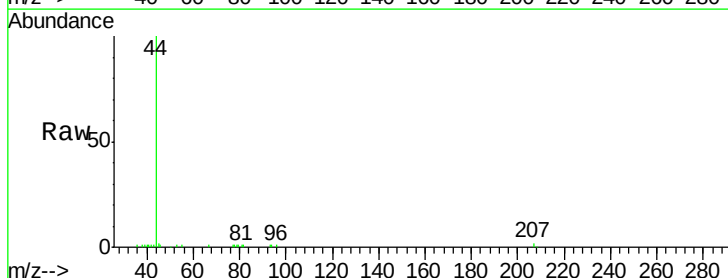
Acq: 11 Jun 2020 15:17

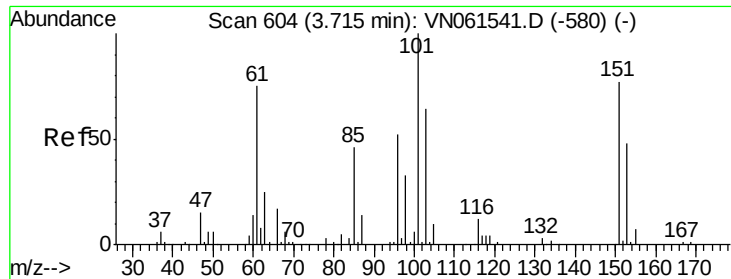
Tgt Ion: 94 Resp: 751

Ion Ratio Lower Upper

94 100

96 69.1 74.8 112.2#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.120 ug/l

RT: 3.72 min Scan# 605

Delta R.T. 0.00 min

Lab File: VN061747.D

Acq: 11 Jun 2020 15:17

Instrument :

MSVOA_N

ClientSampled :

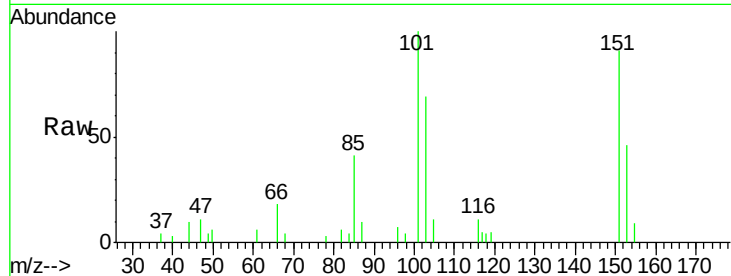
Tot Ion:101 Resp: 14353

Ion Ratio Lower Upper

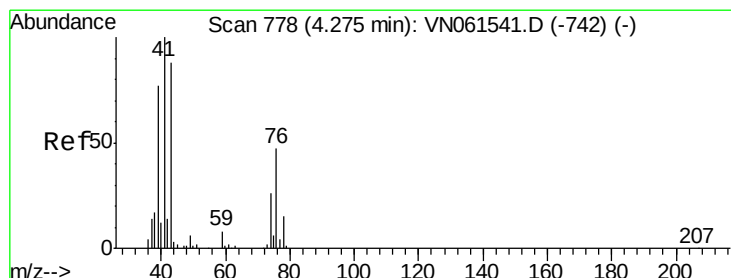
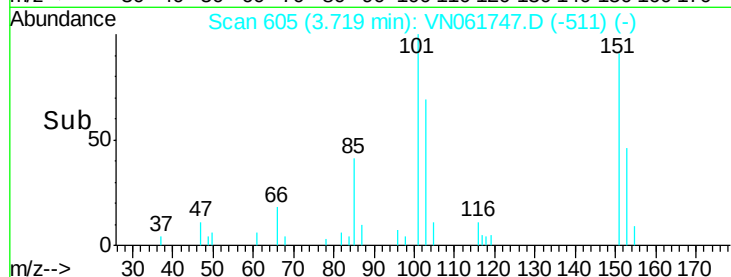
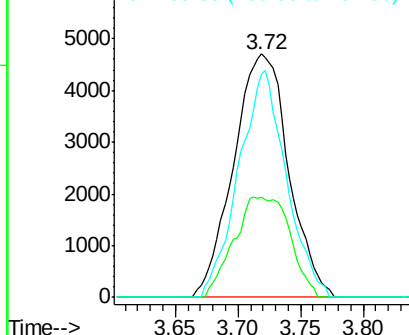
101 100

85 41.7 35.2 52.8

151 80.7 61.0 91.6



Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): VNO
Ion 150.80 (150.50 to 151.50): V



#14

Allyl chloride

Concen: 0.757 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.25 min

Lab File: VN061747.D

Acq: 11 Jun 2020 15:17

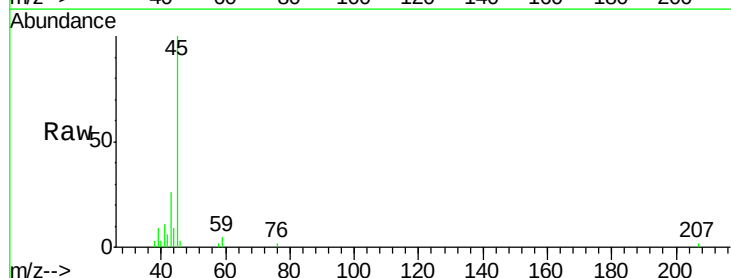
Tgt Ion: 41 Resp: 2963

Ion Ratio Lower Upper

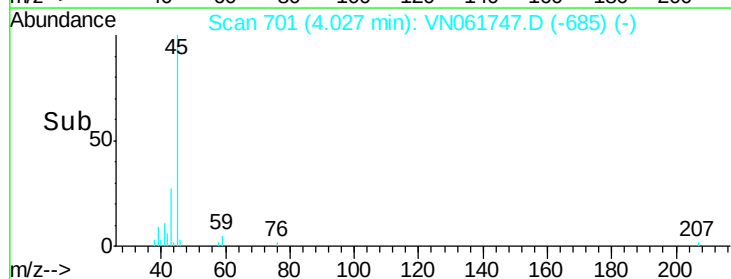
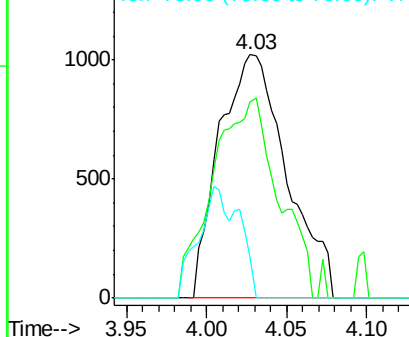
41 100

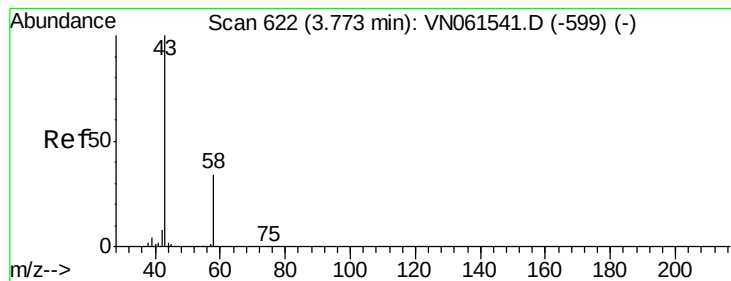
39 79.9 58.6 88.0

76 0.0 34.2 51.4#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 75.90 (75.60 to 76.60): VNO





#16

Acetone

Concen: 0.810 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN061747.D

Acq: 11 Jun 2020 15:17

Instrument :

MSVOA_N

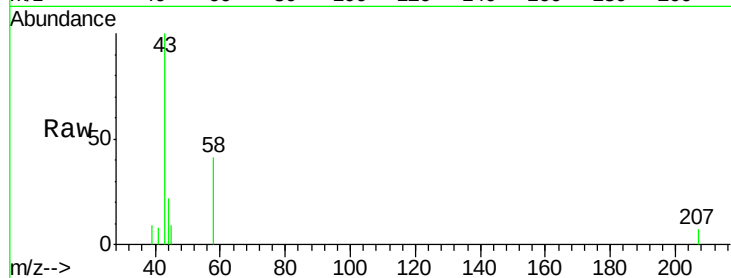
ClientSampleId :

Tot Ion: 43 Resp: 6728

Ion Ratio Lower Upper

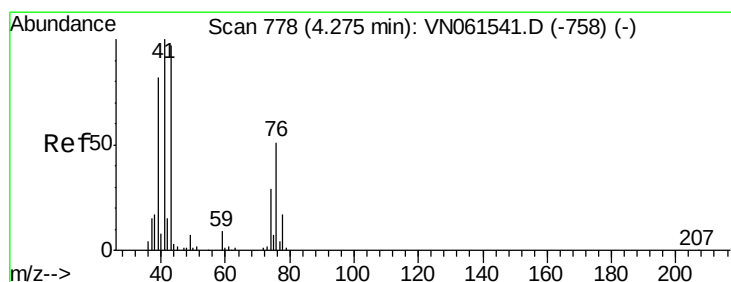
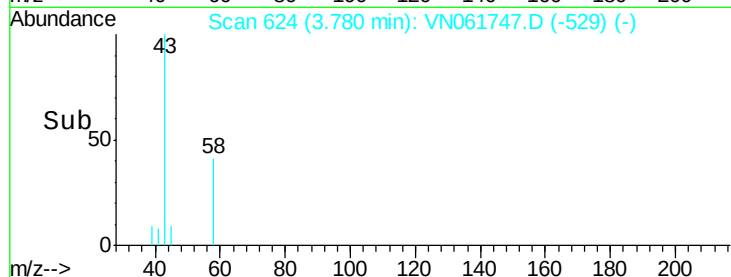
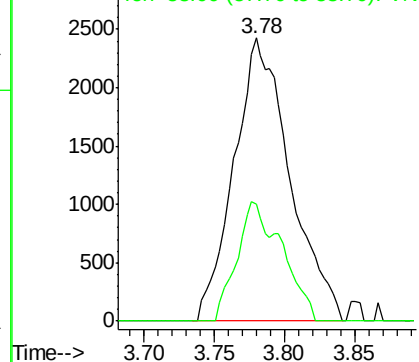
43 100

58 41.2 27.2 40.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.993 ug/l

RT: 4.02 min Scan# 699

Delta R.T. -0.25 min

Lab File: VN061747.D

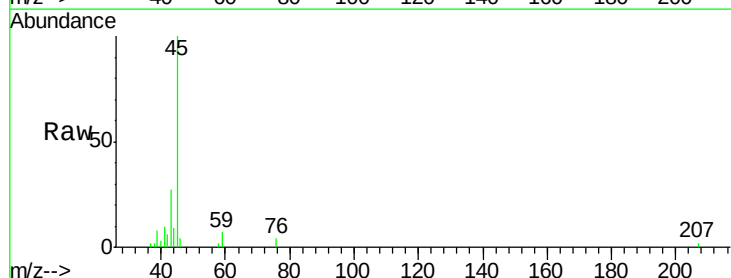
Acq: 11 Jun 2020 15:17

Tgt Ion: 43 Resp: 6302

Ion Ratio Lower Upper

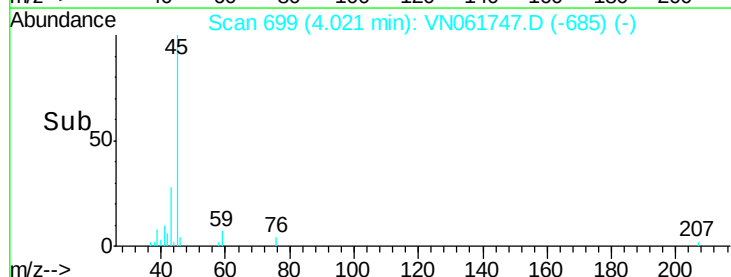
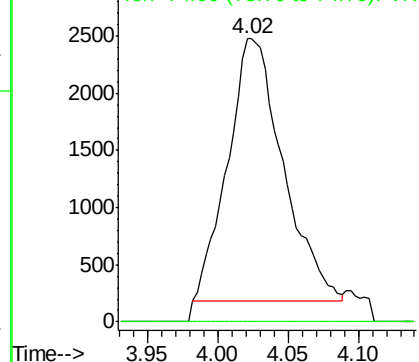
43 100

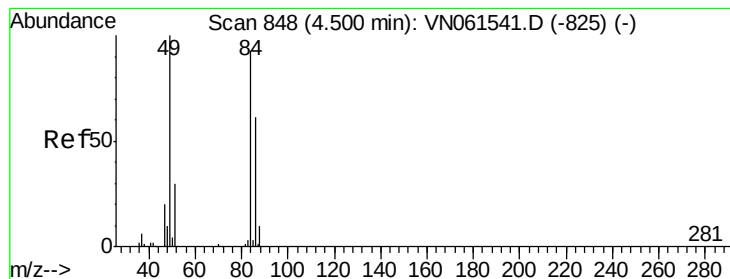
74 0.0 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methylene Chloride

Concen: Below Cal

RT: 4.50 min Scan# 848

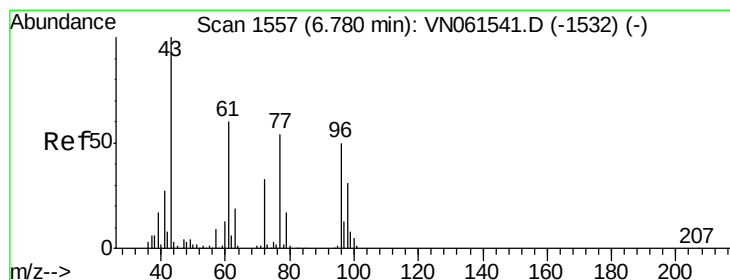
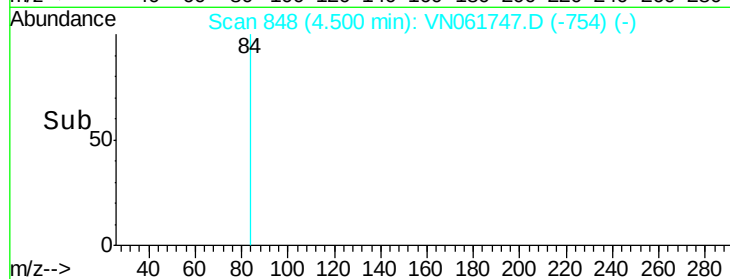
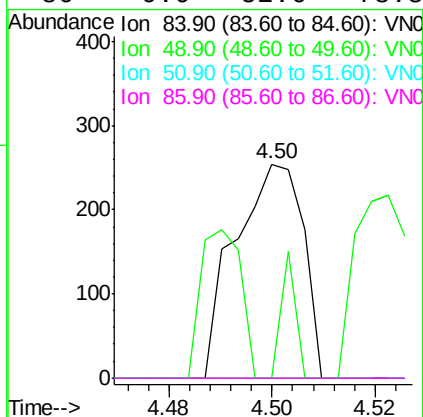
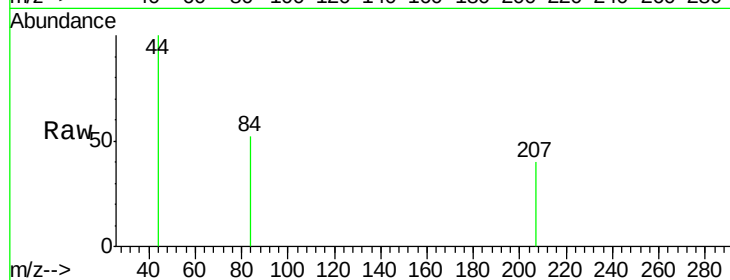
Delta R.T. 0.00 min

Lab File: VN061747.D

Acq: 11 Jun 2020 15:17

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:	84	Resp:	231
Ion	Ratio	Lower	Upper
84	100		
49	0.0	85.8	128.8#
51	0.0	26.2	39.2#
86	0.0	52.6	78.8#



#27

cis-1,2-Dichloroethene

Concen: 1.027 ug/l

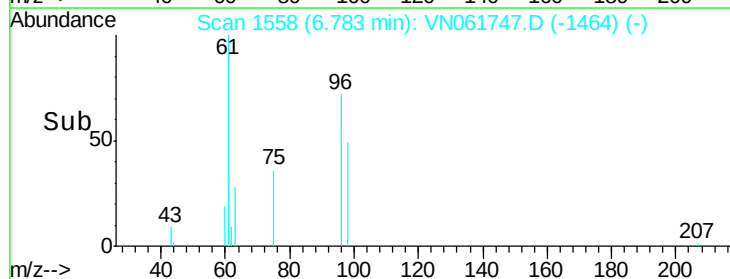
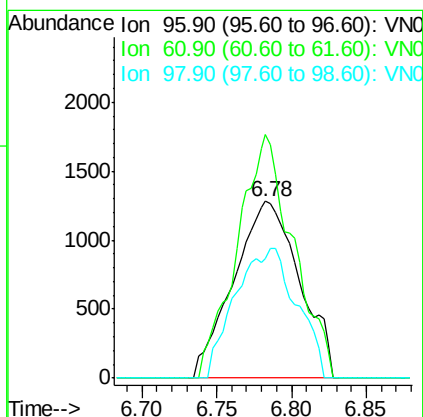
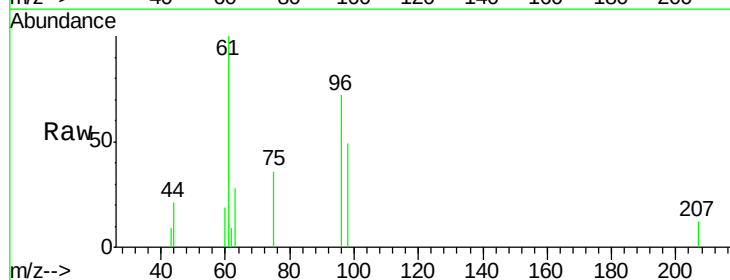
RT: 6.78 min Scan# 1558

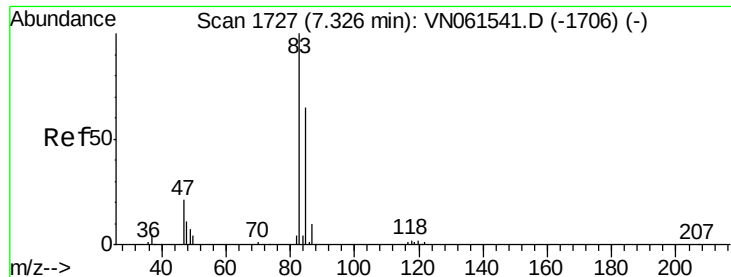
Delta R.T. 0.00 min

Lab File: VN061747.D

Acq: 11 Jun 2020 15:17

Tgt Ion:	96	Resp:	3927
Ion	Ratio	Lower	Upper
96	100		
61	116.7	0.0	252.2
98	68.0	0.0	129.2

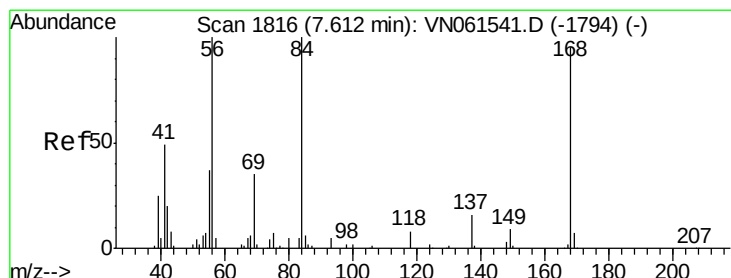
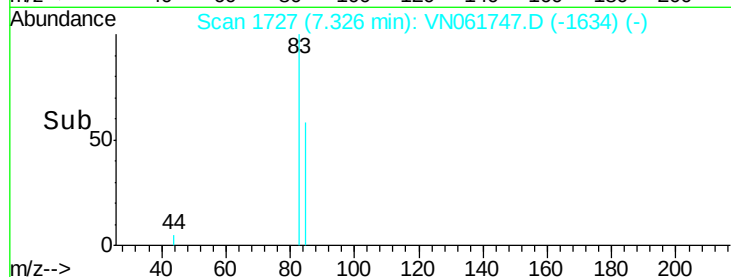
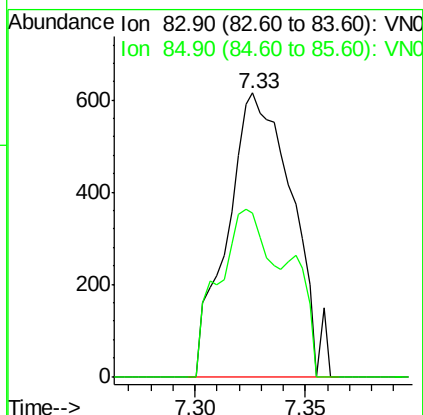
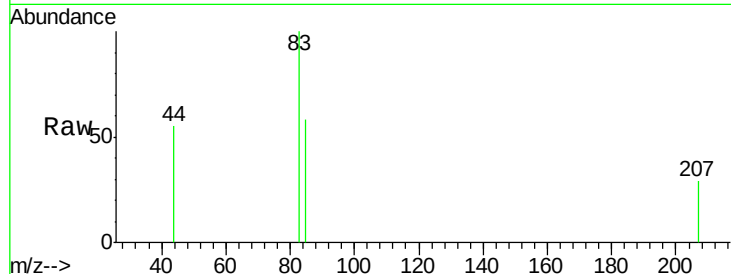




#30
Chloroform
Concen: 0.207 ug/l
RT: 7.33 min Scan# 1727
Delta R.T. 0.00 min
Lab File: VN061747.D
Acq: 11 Jun 2020 15:17

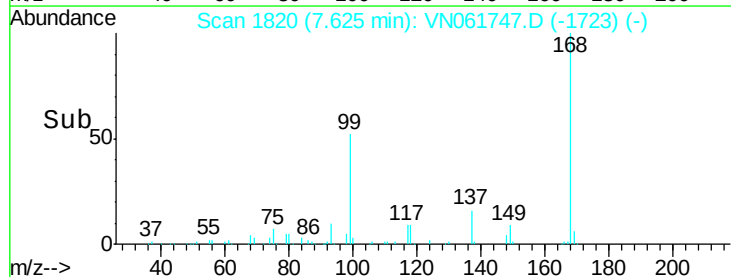
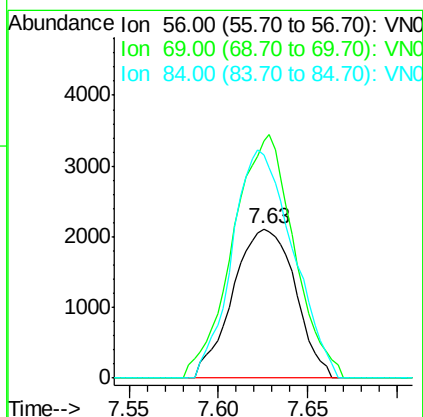
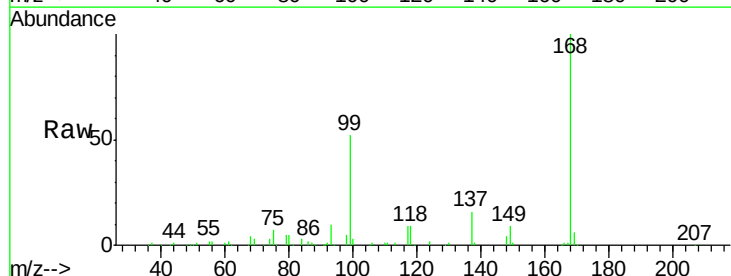
Instrument :
MSVOA_N
ClientSampleId :

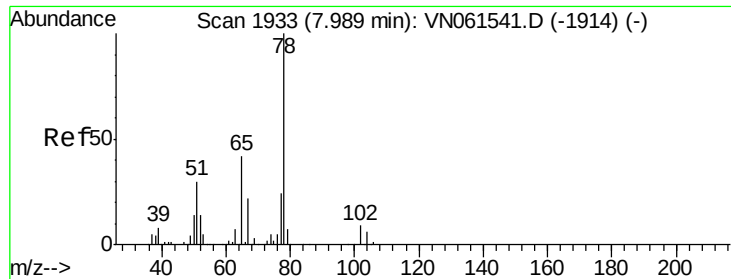
Tot Ion: 83 Resp: 1251
Ion Ratio Lower Upper
83 100
85 57.6 51.7 77.5



#31
Cyclohexane
Concen: 1.043 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN061747.D
Acq: 11 Jun 2020 15:17

Tgt Ion: 56 Resp: 5131
Ion Ratio Lower Upper
56 100
69 149.7 27.8 41.8#
84 149.7 79.9 119.9#

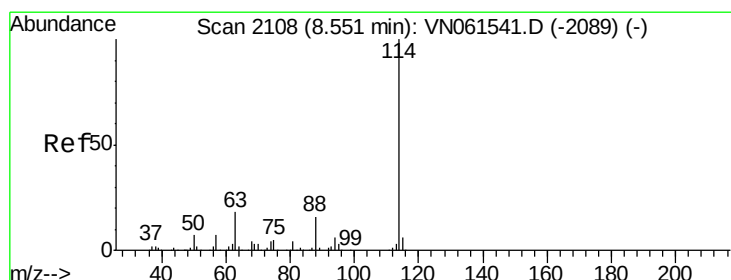
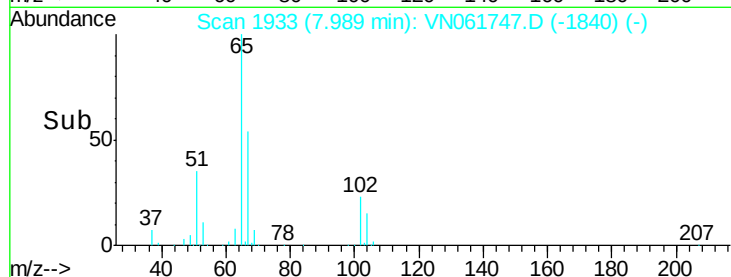
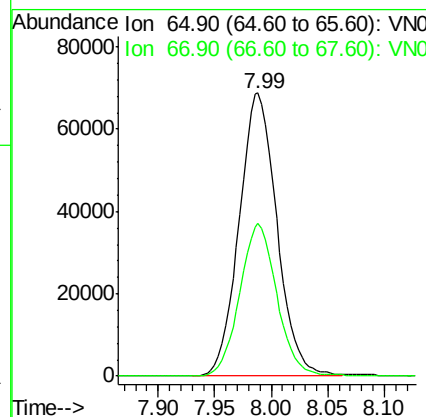
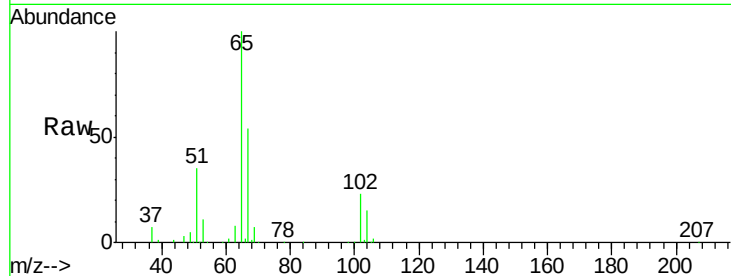




#33
 1,2-Dichloroethane-d4
 Concen: 45.825 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN061747.D
 Acq: 11 Jun 2020 15:17

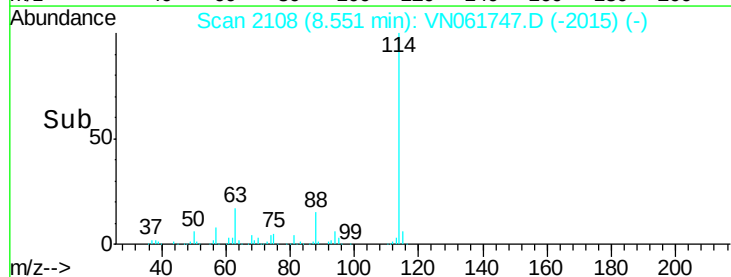
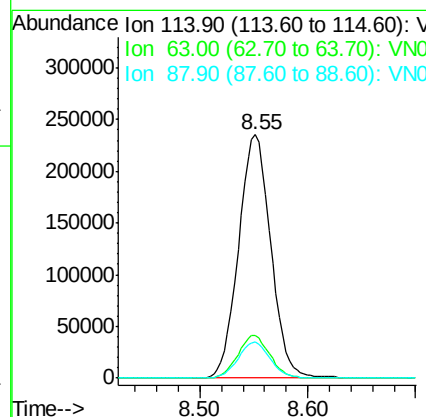
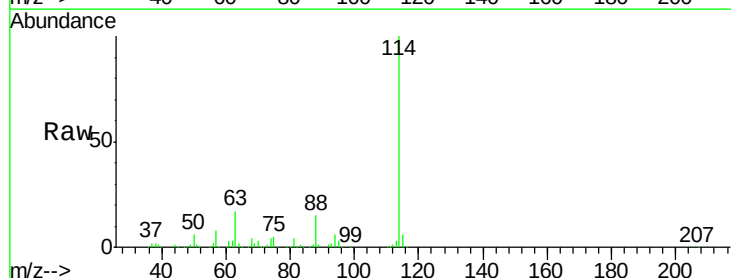
Instrument :
 MSVOA_N
 ClientSampleId :

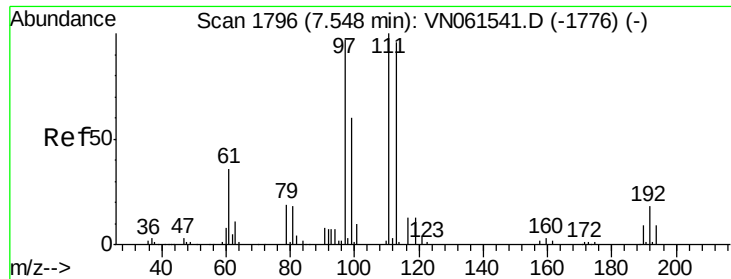
Tot Ion: 65 Resp: 160032
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061747.D
 Acq: 11 Jun 2020 15:17

Tgt Ion: 114 Resp: 489746
 Ion Ratio Lower Upper
 114 100
 63 17.3 0.0 35.8
 88 14.7 0.0 31.0

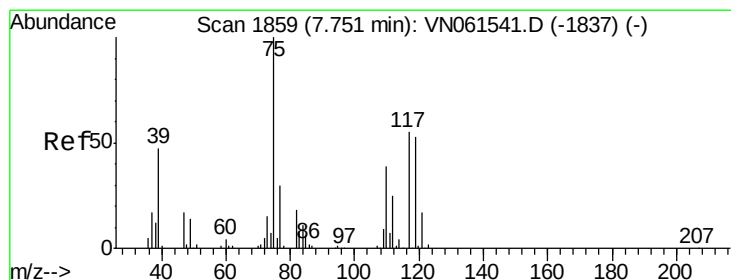
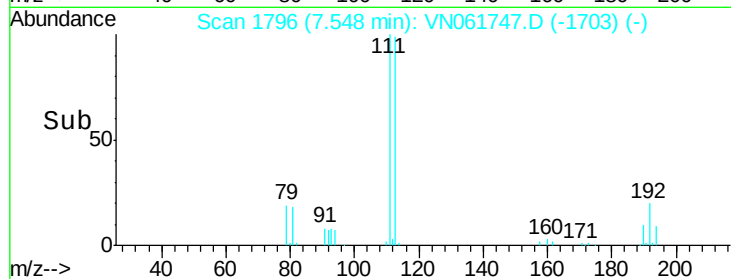
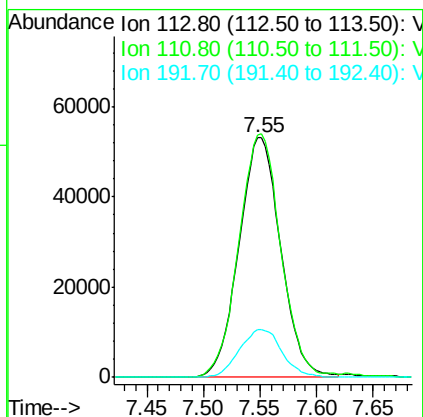
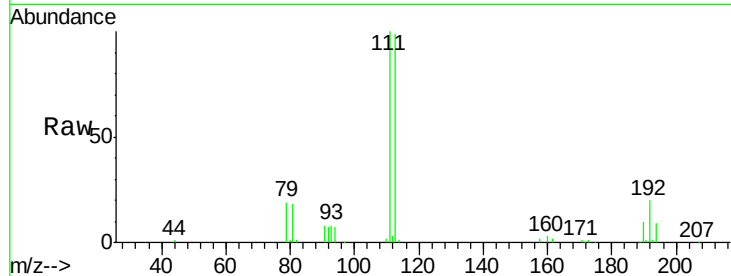




#35
 Dibromofluoromethane
 Concen: 55.007 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN061747.D
 Acq: 11 Jun 2020 15:17

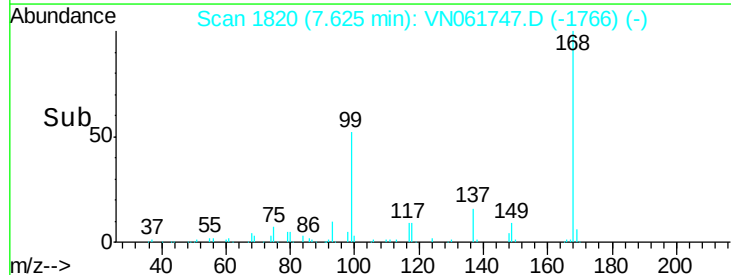
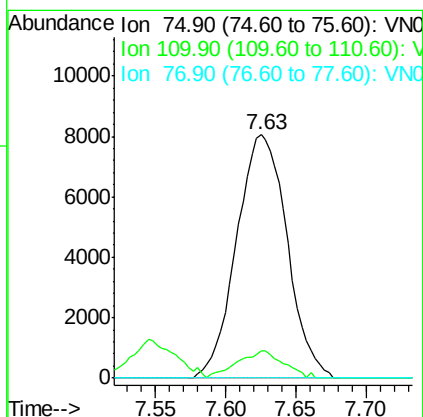
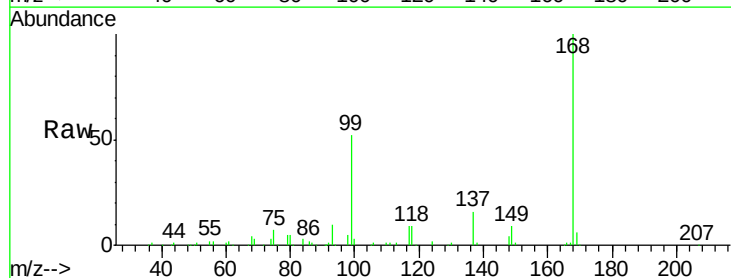
Instrument :
 MSVOA_N
 ClientSampleId :

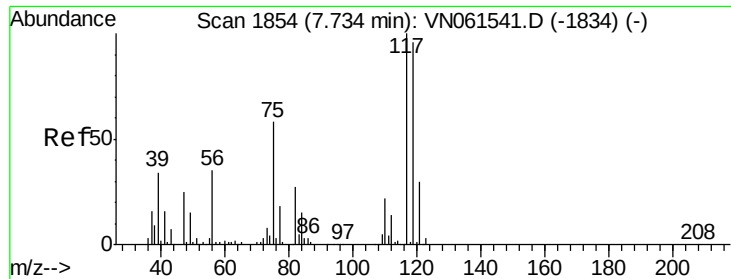
Tot Ion:113 Resp: 136660
 Ion Ratio Lower Upper
 113 100
 111 101.7 83.4 125.0
 192 20.3 15.4 23.2



#36
 1,1-Dichloropropene
 Concen: 4.651 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061747.D
 Acq: 11 Jun 2020 15:17

Tgt Ion: 75 Resp: 20163
 Ion Ratio Lower Upper
 75 100
 110 10.2 19.5 58.5#
 77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 6.680 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061747.D

Acq: 11 Jun 2020 15:17

Instrument :

MSVOA_N

ClientSampled :

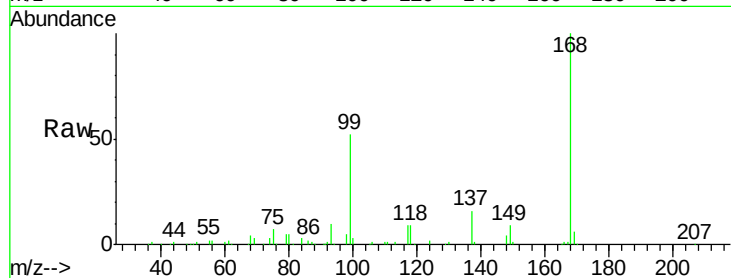
Tot Ion:117 Resp: 27934

Ion Ratio Lower Upper

117 100

119 4.8 76.5 114.7#

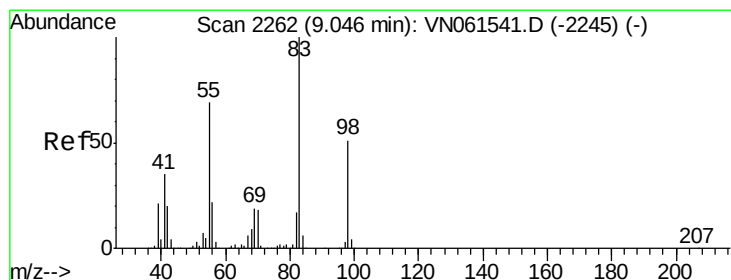
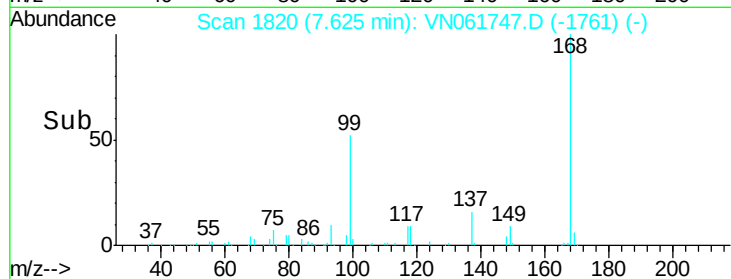
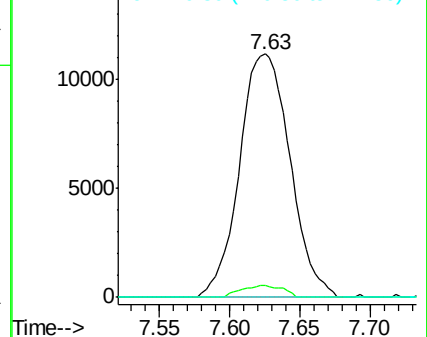
121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.887 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. -0.24 min

Lab File: VN061747.D

Acq: 11 Jun 2020 15:17

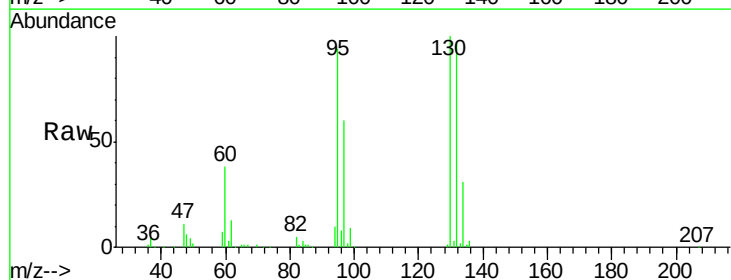
Tgt Ion: 83 Resp: 4742

Ion Ratio Lower Upper

83 100

55 0.0 54.9 82.3#

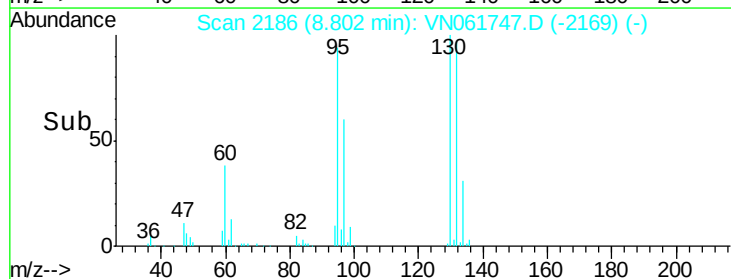
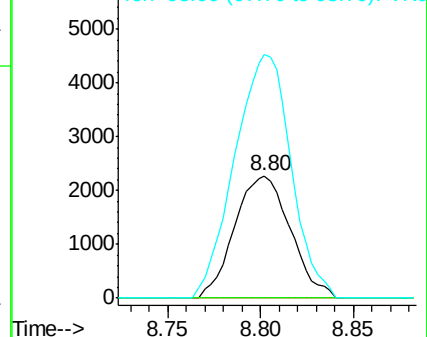
98 198.9 41.0 61.4#

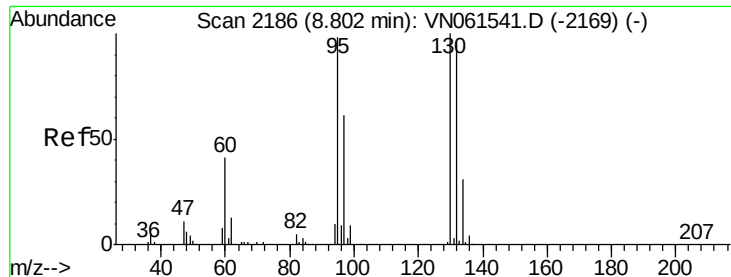


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V





#44

Trichloroethene

Concen: 97.563 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VN061747.D

Acq: 11 Jun 2020 15:17

Instrument :

MSVOA_N

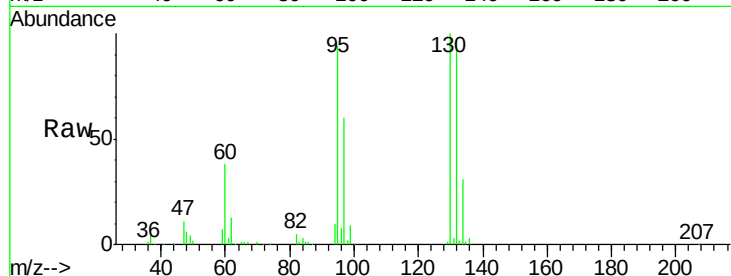
ClientSampleId :

Tot Ion:130 Resp: 401089

Ion Ratio Lower Upper

130 100

95 94.0 0.0 196.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VNO

8.80

200000

150000

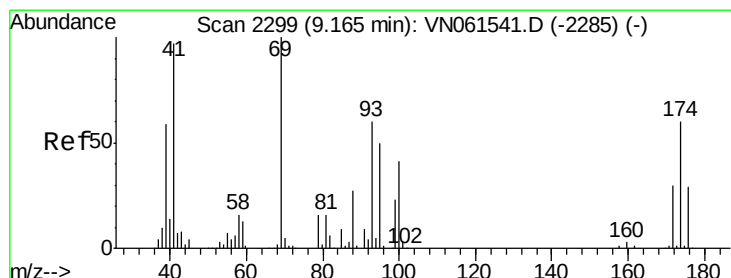
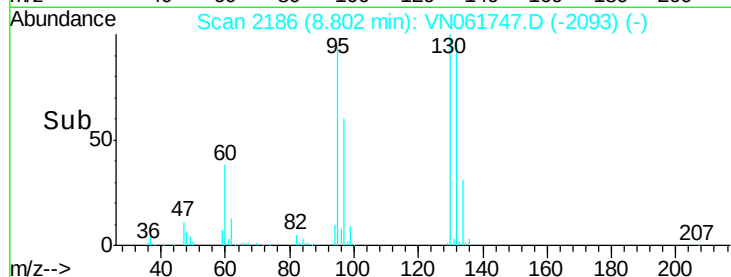
100000

50000

0

8.70 8.80 8.90

Time-->



#49

1,4-Dioxane

Concen: 17.904 ug/l

RT: 9.17 min Scan# 2300

Delta R.T. 0.00 min

Lab File: VN061747.D

Acq: 11 Jun 2020 15:17

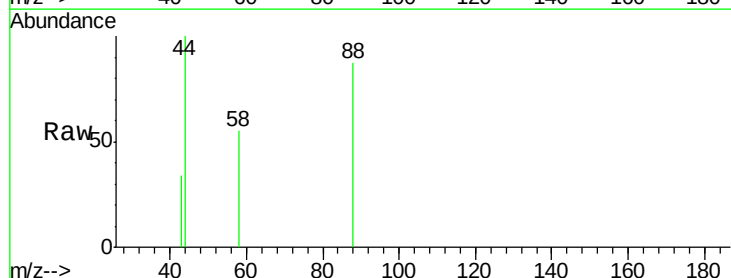
Tgt Ion: 88 Resp: 784

Ion Ratio Lower Upper

88 100

43 21.9 23.1 34.7#

58 64.9 48.3 72.5



Abundance Ion 88.00 (87.70 to 88.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

9.17

600

500

400

300

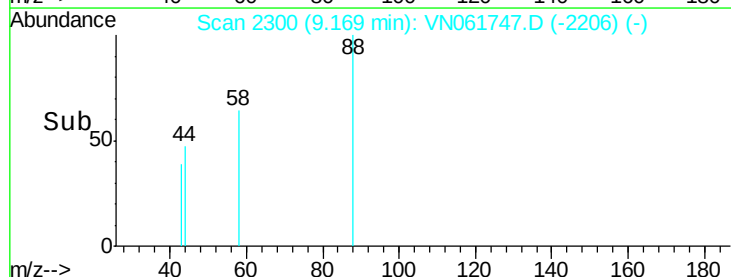
200

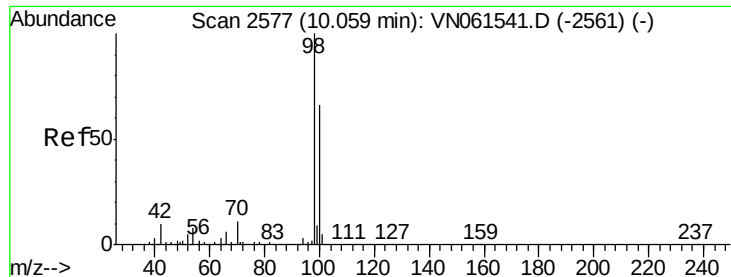
100

0

9.12 9.14 9.16 9.18 9.20

Time-->





#50

Toluene-d8

Concen: 51.227 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061747.D

Acq: 11 Jun 2020 15:17

Instrument :

MSVOA_N

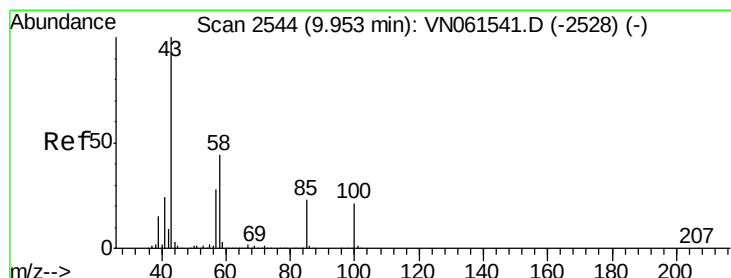
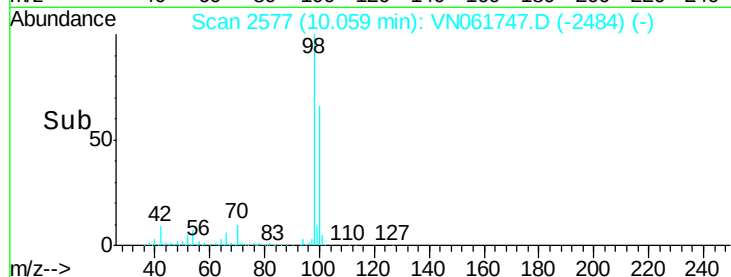
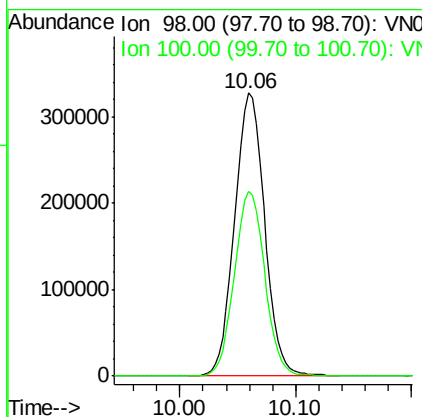
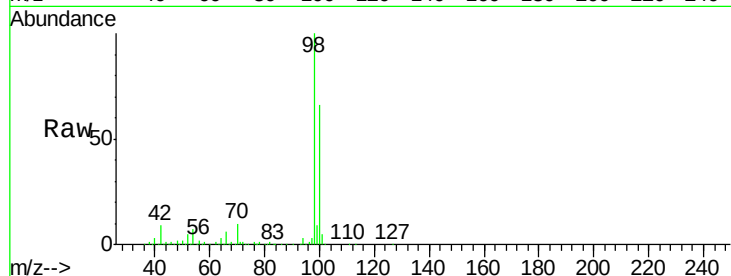
ClientSampleId :

Tot Ion: 98 Resp: 589780

Ion Ratio Lower Upper

98 100

100 66.1 52.8 79.2



#51

4-Methyl-2-Pentanone

Concen: 0.542 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.11 min

Lab File: VN061747.D

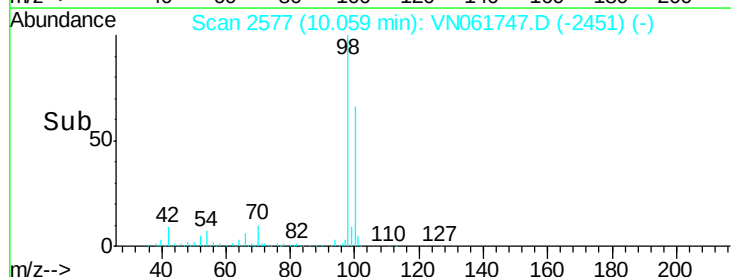
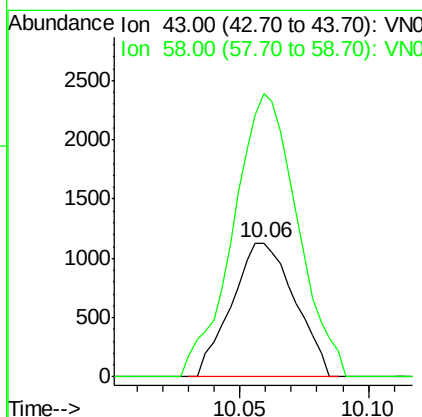
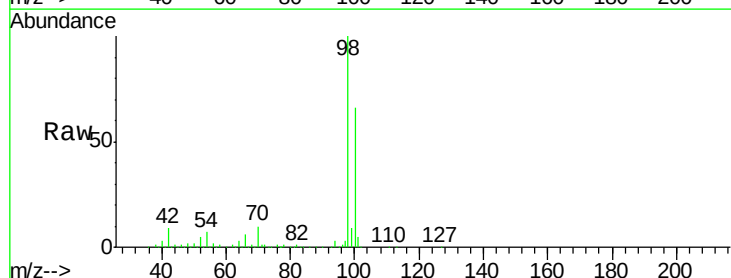
Acq: 11 Jun 2020 15:17

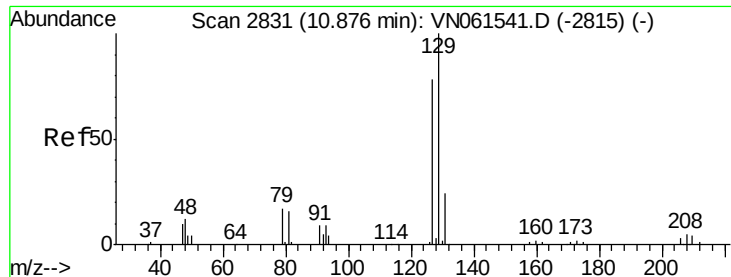
Tgt Ion: 43 Resp: 1919

Ion Ratio Lower Upper

43 100

58 216.1 35.0 52.6#





#60

Dibromochloromethane

Concen: 2.119 ug/l

RT: 10.60 min Scan# 2746

Delta R.T. -0.27 min

Lab File: VN061747.D

Acq: 11 Jun 2020 15:17

Instrument :

MSVOA_N

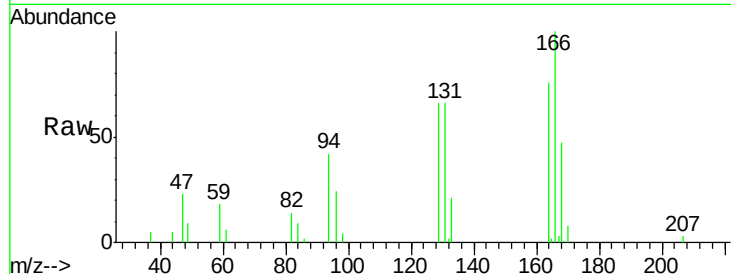
ClientSampled :

Tot Ion:129 Resp: 8380

Ion Ratio Lower Upper

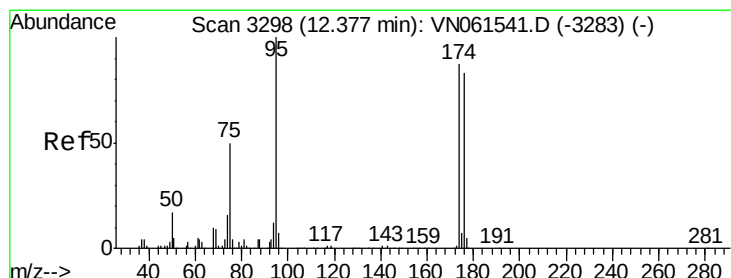
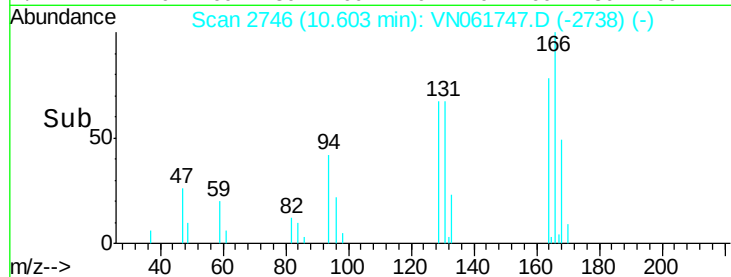
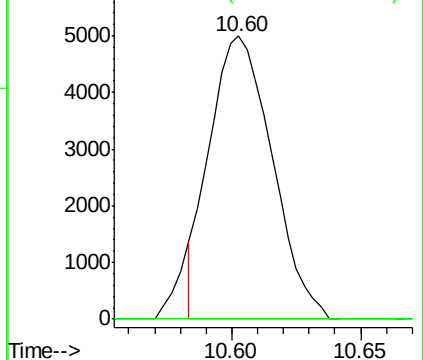
129 100

127 0.0 38.8 116.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 47.680 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061747.D

Acq: 11 Jun 2020 15:17

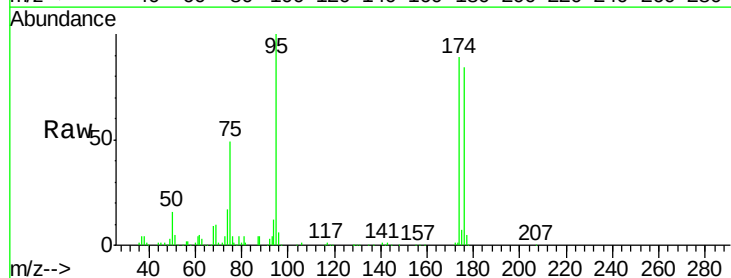
Tgt Ion: 95 Resp: 200271

Ion Ratio Lower Upper

95 100

174 87.7 0.0 172.8

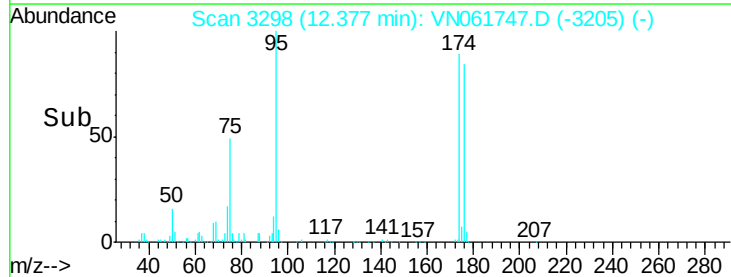
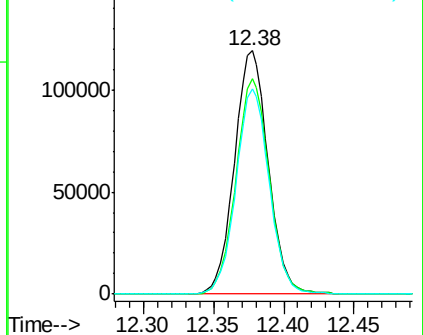
176 83.0 0.0 164.8

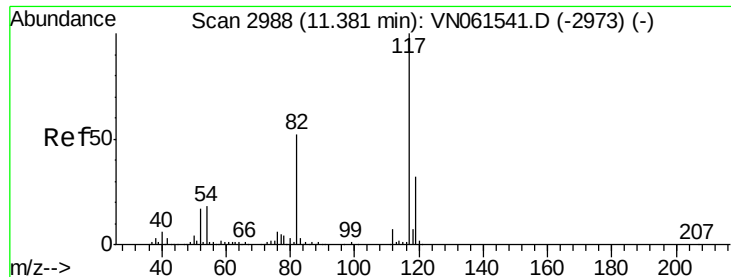


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

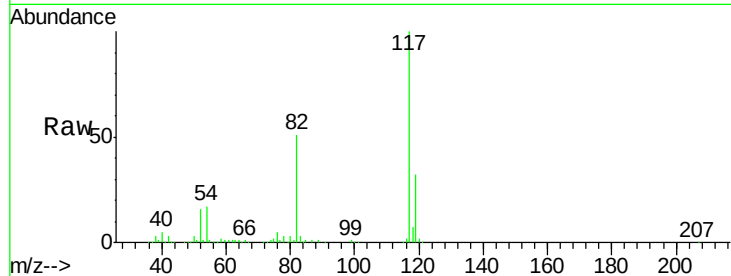




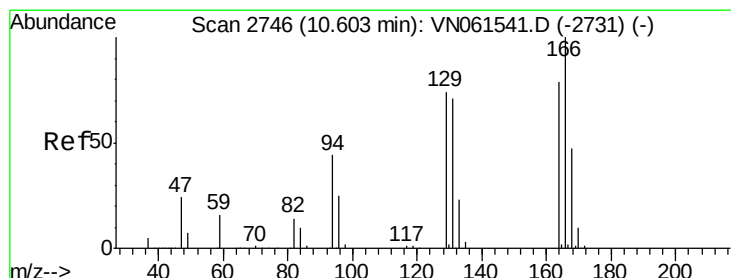
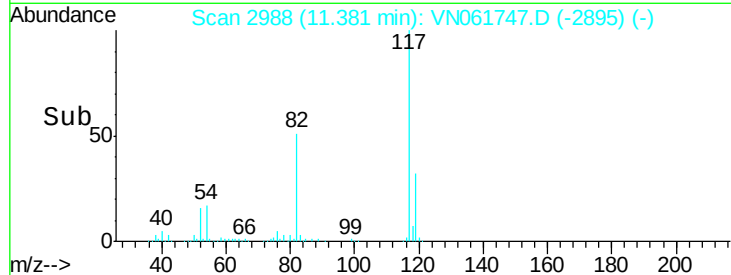
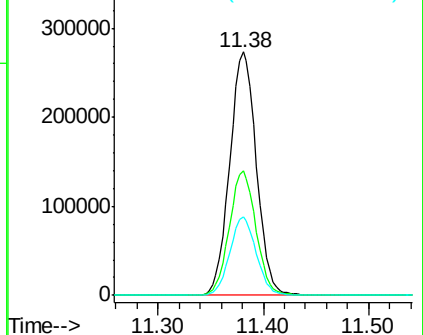
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061747.D
Acq: 11 Jun 2020 15:17

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 478071
Ion Ratio Lower Upper
117 100
82 51.0 41.5 62.3
119 32.2 25.6 38.4

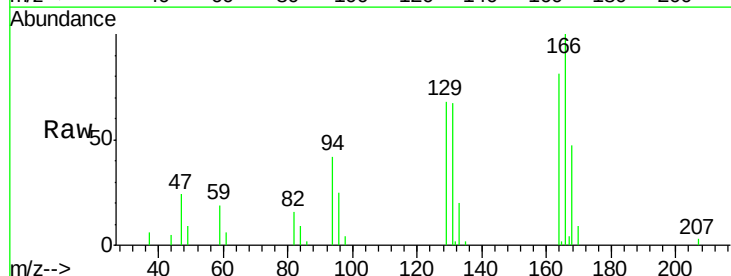


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

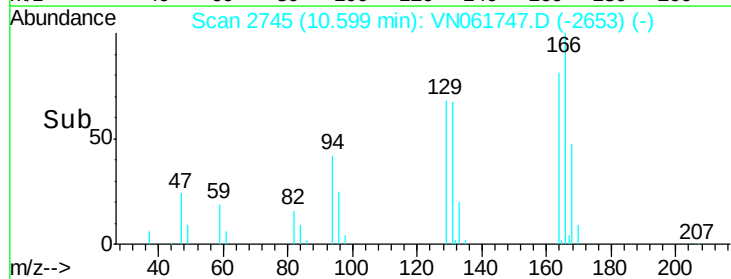
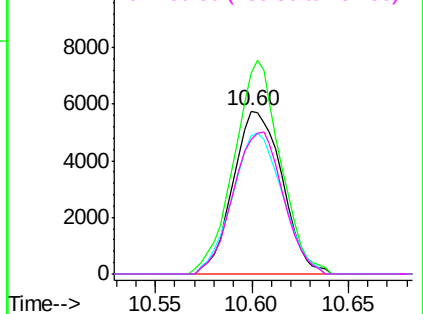


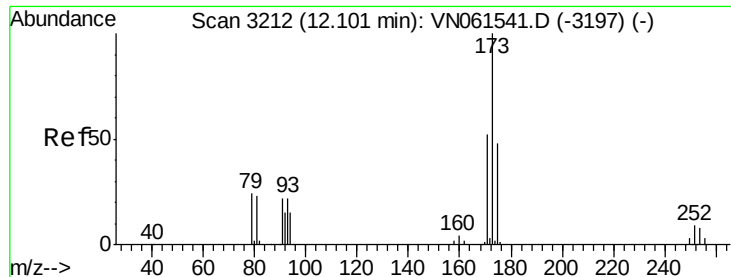
#64
Tetrachloroethene
Concen: 2.253 ug/l
RT: 10.60 min Scan# 2745
Delta R.T. -0.00 min
Lab File: VN061747.D
Acq: 11 Jun 2020 15:17

Tgt Ion:164 Resp: 10138
Ion Ratio Lower Upper
164 100
166 123.6 101.5 152.3
129 84.6 74.9 112.3
131 82.5 72.2 108.2



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

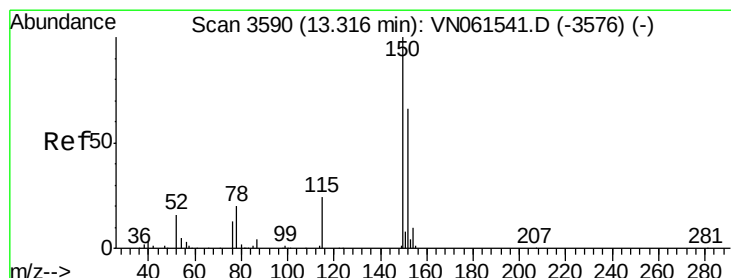
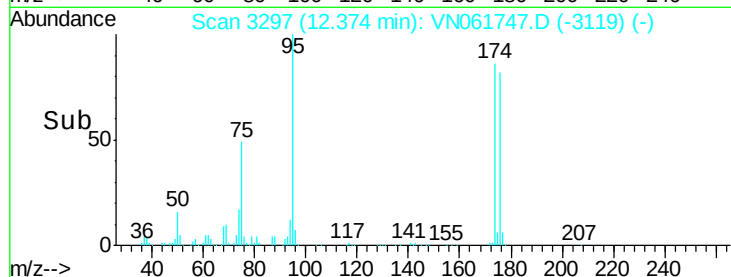
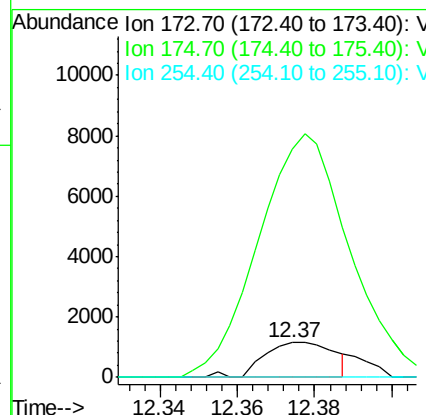
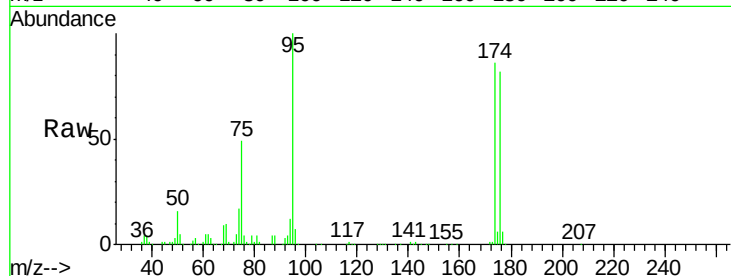




#71
Bromoform
Concen: 0.516 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.27 min
Lab File: VN061747.D
Acq: 11 Jun 2020 15:17

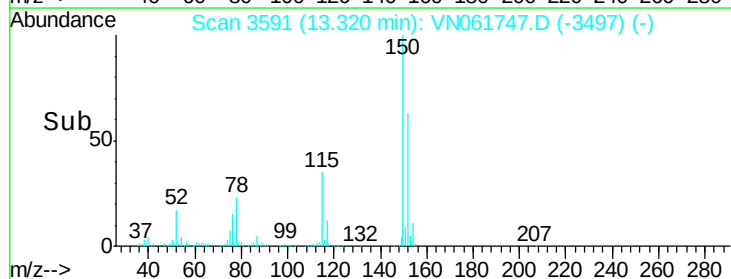
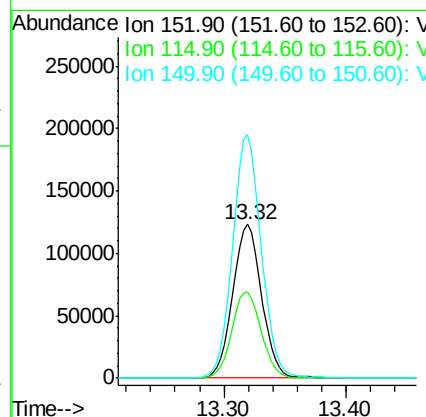
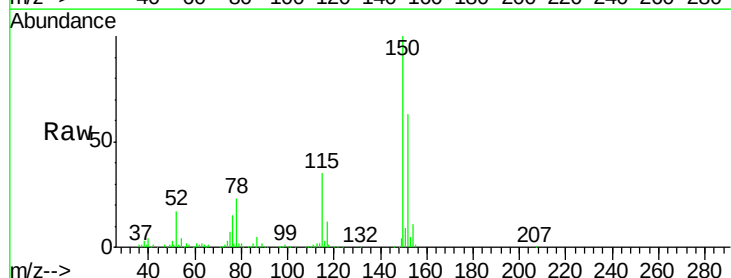
Instrument :
MSVOA_N
ClientSampled :

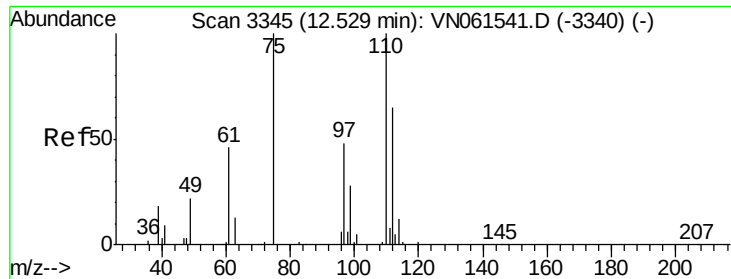
Tot Ion:173 Resp: 1472
Ion Ratio Lower Upper
173 100
175 754.5 24.4 73.2#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3591
Delta R.T. 0.00 min
Lab File: VN061747.D
Acq: 11 Jun 2020 15:17

Tgt Ion:152 Resp: 204808
Ion Ratio Lower Upper
152 100
115 56.7 28.0 84.0
150 155.5 0.0 344.0

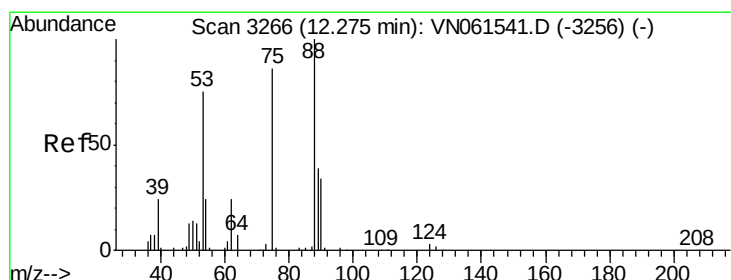
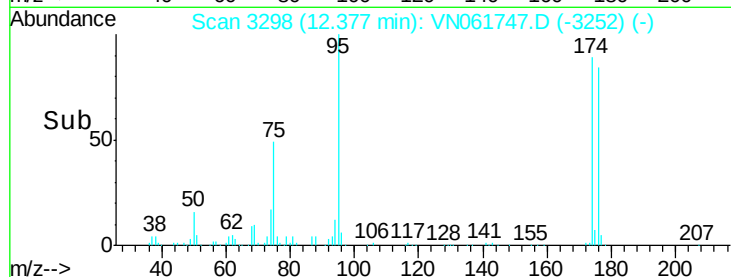
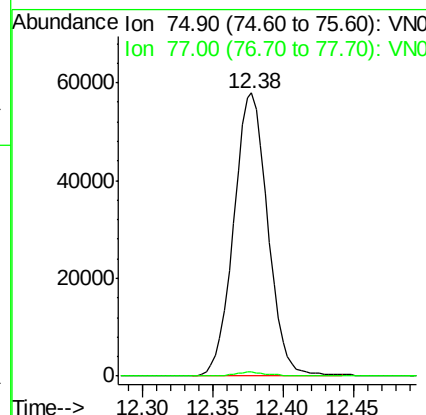
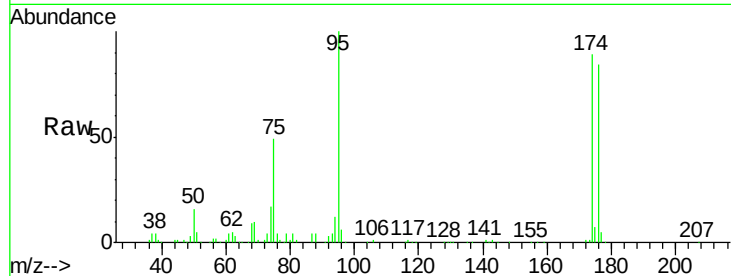




#76
 1,2,3-Trichloropropane
 Concen: 26.276 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN061747.D
 Acq: 11 Jun 2020 15:17

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 97857
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.195 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN061747.D
 Acq: 11 Jun 2020 15:17

Tgt Ion: 75 Resp: 97857
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.8 101.8#
 89 0.0 37.1 55.7#

