

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061120\
 Data File : VN061753.D
 Acq On : 11 Jun 2020 17:37
 Operator : JC/MD
 Sample : L2988-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 12 05:46:46 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

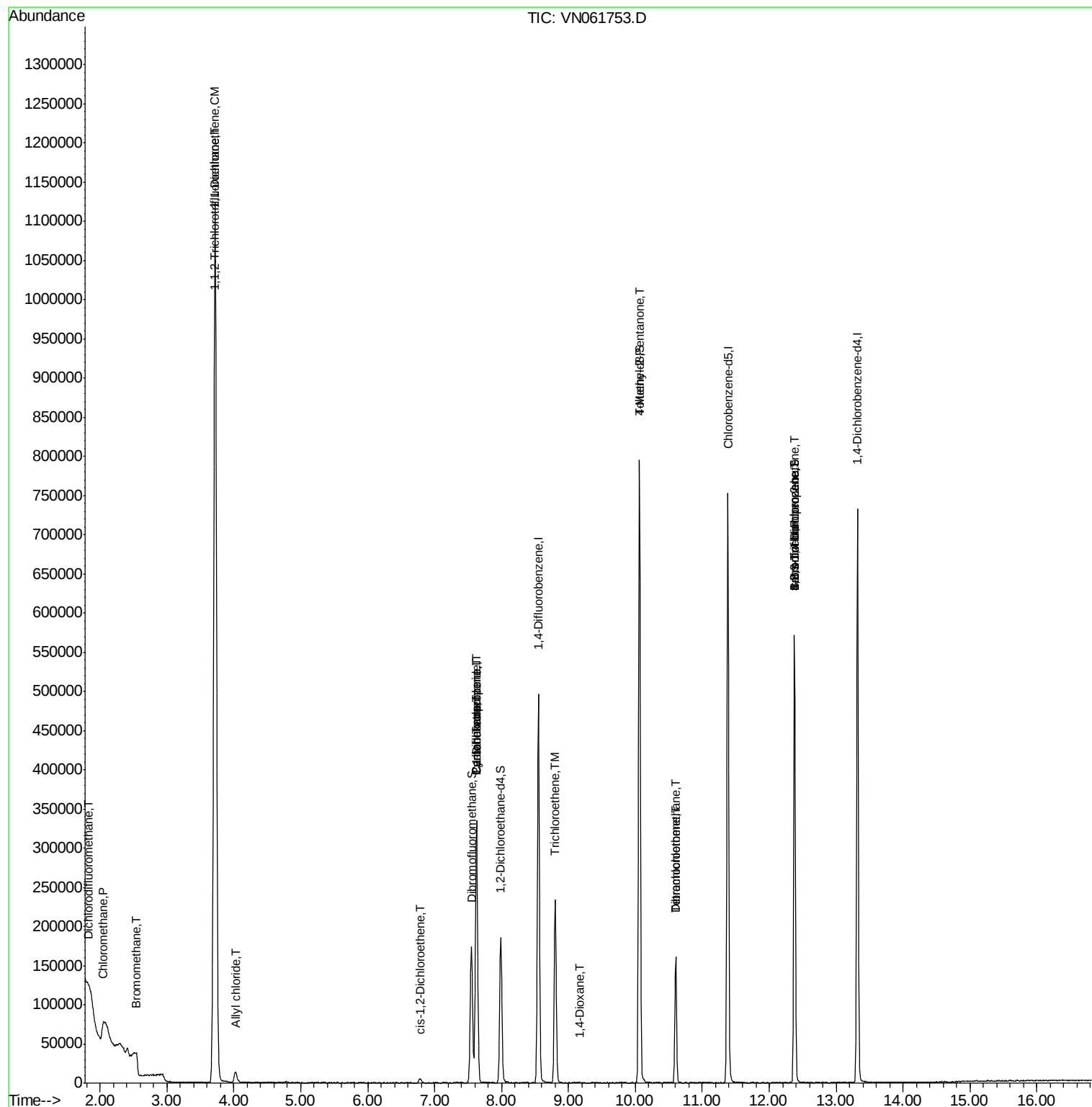
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	281279	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	482700	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	472354	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	211969	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	159085	47.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.94%	
35) Dibromofluoromethane	7.55	113	135452	55.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.64%	
50) Toluene-d8	10.06	98	583530	51.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.84%	
62) 4-Bromofluorobenzene	12.38	95	200389	48.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.80%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.83	85	764	1.378	ug/l	96
3) Chloromethane	2.03	50	969	0.282	ug/l	98
5) Bromomethane	2.54	94	603	0.224	ug/l	86
9) 1,1,2-Trichlorotrifluoroet	3.72	101	705745	262.334	ug/l	97
12) 1,1-Dichloroethene	3.70	96	4878	1.697	ug/l #	66
14) Allyl chloride	4.02	41	2518	0.670	ug/l #	69
16) Acetone	3.78	43	5146	Below Cal	#	83
20) Methylene Chloride	4.52	84	190	Below Cal	#	45
27) cis-1,2-Dichloroethene	6.78	96	3378	0.920	ug/l	83
31) Cyclohexane	7.63	56	5196	1.100	ug/l #	37
36) 1,1-Dichloropropene	7.63	75	19268	4.509	ug/l #	47
38) Carbon Tetrachloride	7.63	117	27137	6.584	ug/l #	16
44) Trichloroethene	8.80	130	93081	22.972	ug/l	92
49) 1,4-Dioxane	9.17	88	302	6.997	ug/l #	54
51) 4-Methyl-2-Pentanone	10.06	43	1969	0.564	ug/l #	1
60) Dibromochloromethane	10.60	129	34255	8.789	ug/l #	11
64) Tetrachloroethene	10.60	164	39523	8.889	ug/l	99
71) Bromoform	12.38	173	1621	0.575	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	94566	24.534	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	94566	62.741	ug/l #	15

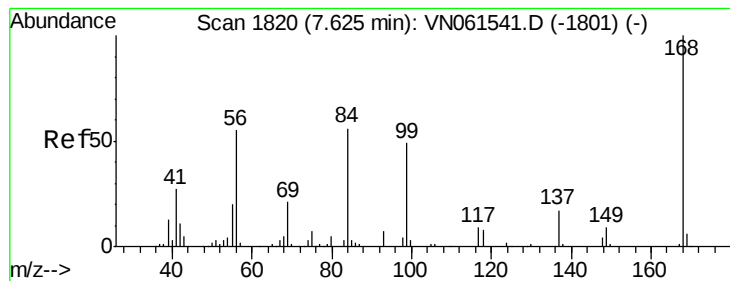
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061753.D

Acq: 11 Jun 2020 17:37

Instrument :

MSVOA_N

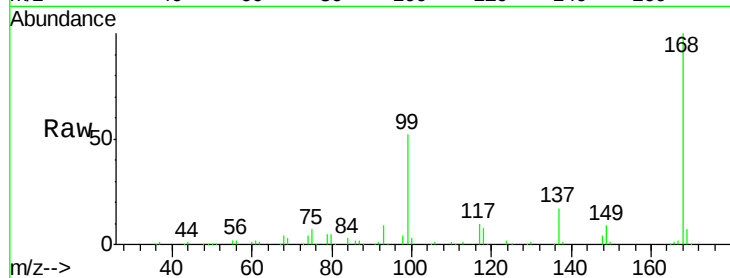
ClientSampleId :

Tot Ion:168 Resp: 281279

Ion Ratio Lower Upper

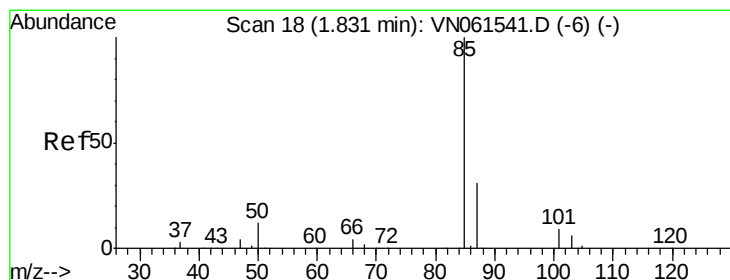
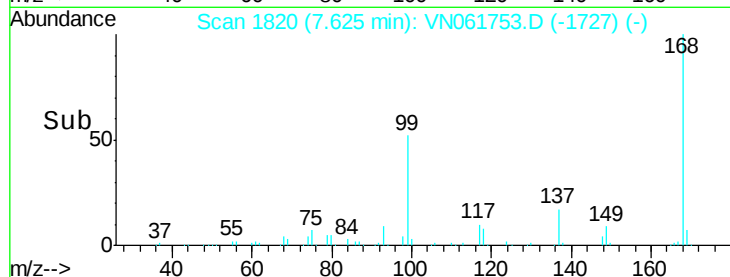
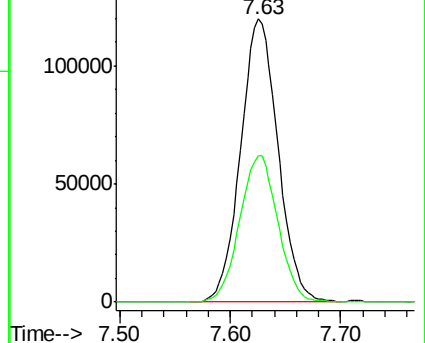
168 100

99 51.8 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 1.378 ug/l

RT: 1.83 min Scan# 18

Delta R.T. 0.00 min

Lab File: VN061753.D

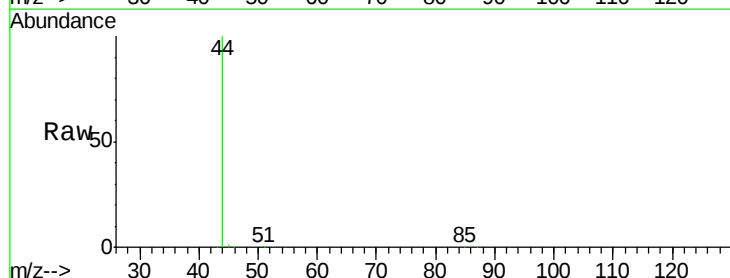
Acq: 11 Jun 2020 17:37

Tgt Ion: 85 Resp: 764

Ion Ratio Lower Upper

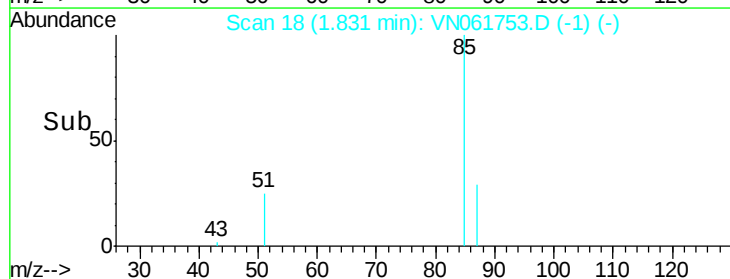
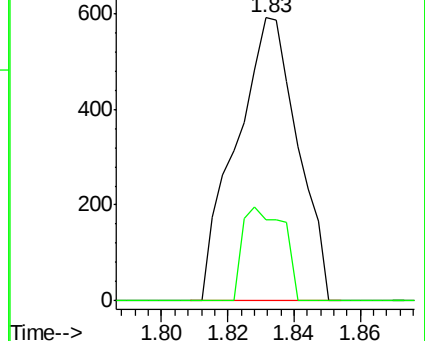
85 100

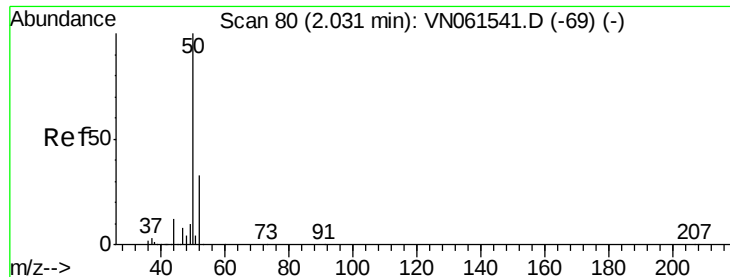
87 28.8 15.6 46.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 0.282 ug/l

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN061753.D

Acq: 11 Jun 2020 17:37

Instrument :

MSVOA_N

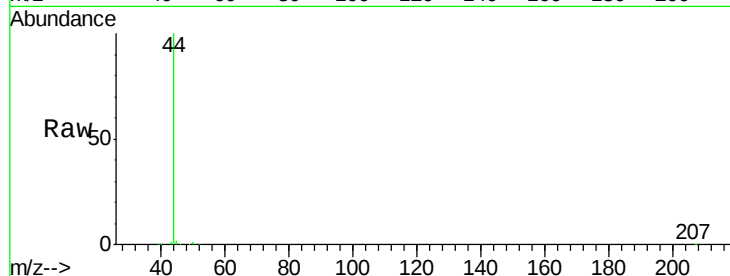
ClientSampleId :

Tot Ion: 50 Resp: 969

Ion Ratio Lower Upper

50 100

52 32.1 26.7 40.1



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.03

800

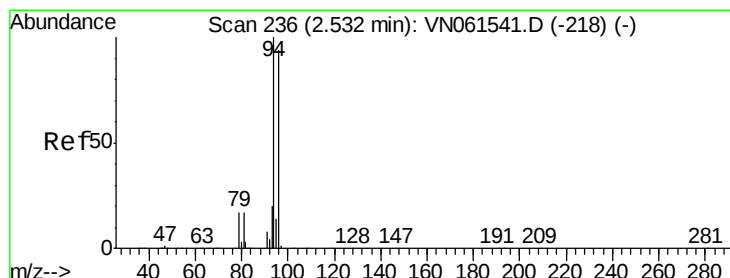
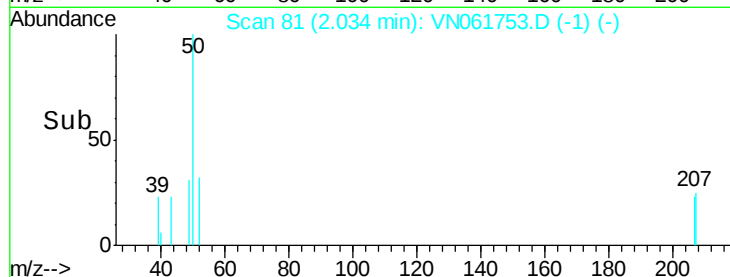
600

400

200

0

Time--> 2.00 2.02 2.04 2.06



#5

Bromomethane

Concen: 0.224 ug/l

RT: 2.54 min Scan# 239

Delta R.T. 0.01 min

Lab File: VN061753.D

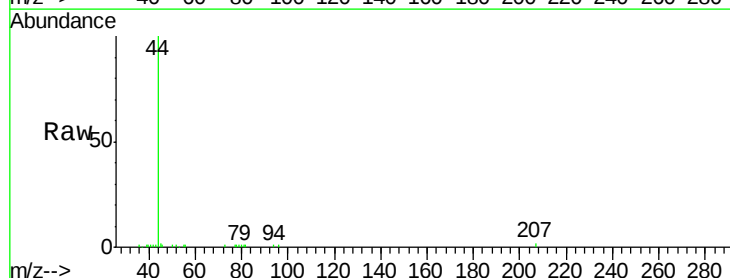
Acq: 11 Jun 2020 17:37

Tgt Ion: 94 Resp: 603

Ion Ratio Lower Upper

94 100

96 79.6 74.8 112.2



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.54

600

500

400

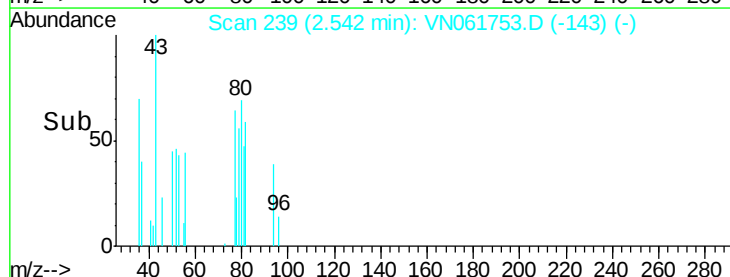
300

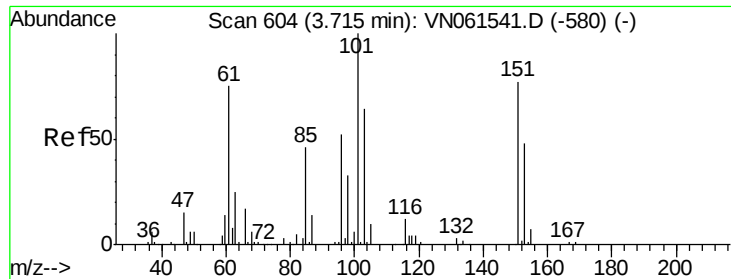
200

100

0

Time--> 2.50 2.55 2.60





#9

1,1,2-Trichlorotrifluoroethane

Concen: 262.334 ug/l

RT: 3.72 min Scan# 605

Delta R.T. 0.00 min

Lab File: VN061753.D

Acq: 11 Jun 2020 17:37

Instrument :

MSVOA_N

ClientSampled :

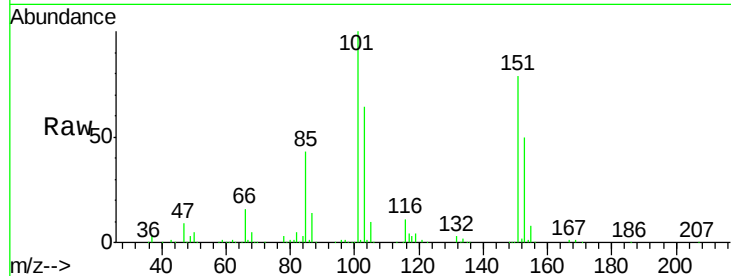
Tot Ion:101 Resp: 705745

Ion Ratio Lower Upper

101 100

85 42.9 35.2 52.8

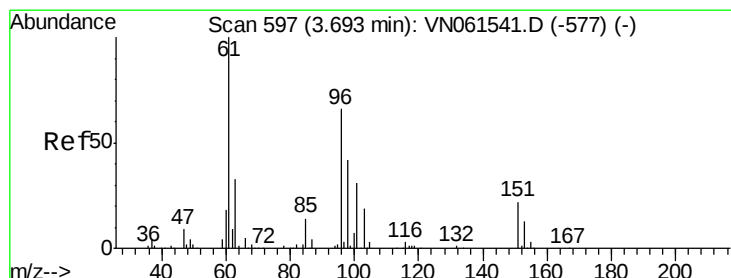
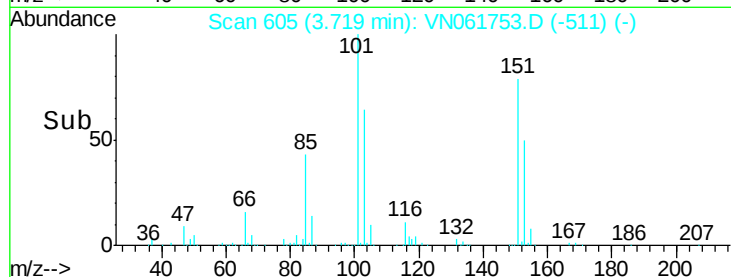
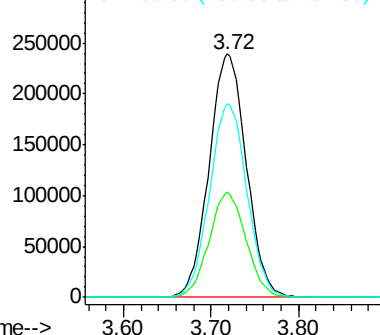
151 79.9 61.0 91.6



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



#12

1,1-Dichloroethene

Concen: 1.697 ug/l

RT: 3.70 min Scan# 600

Delta R.T. 0.01 min

Lab File: VN061753.D

Acq: 11 Jun 2020 17:37

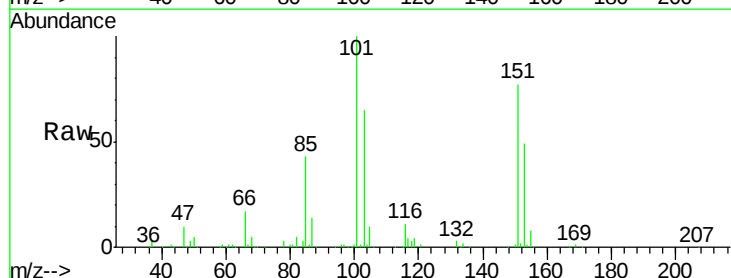
Tgt Ion: 96 Resp: 4878

Ion Ratio Lower Upper

96 100

61 100.2 120.5 180.7#

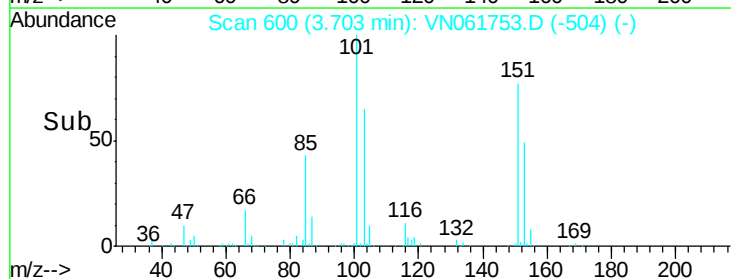
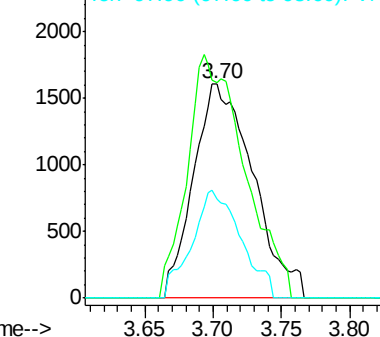
98 46.3 50.8 76.2#

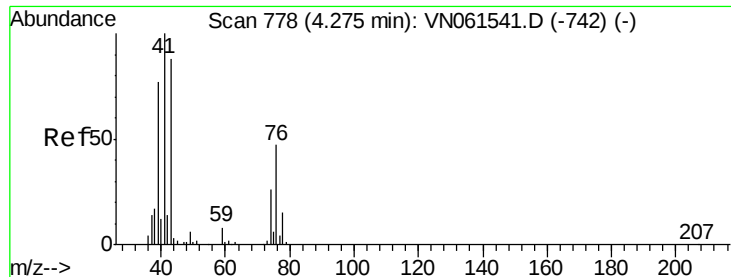


Abundance Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO

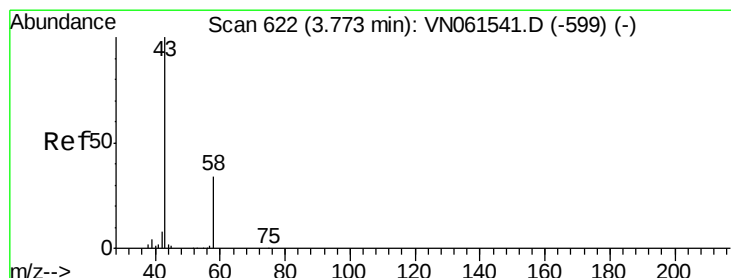
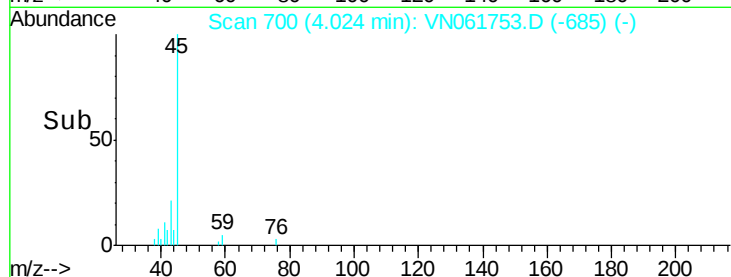
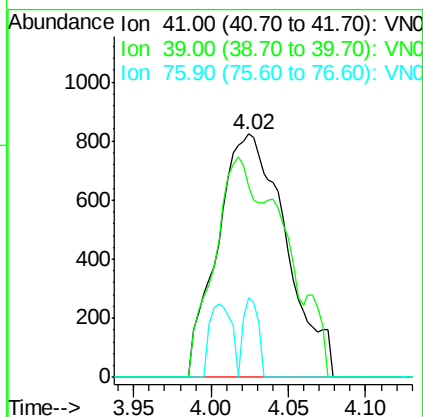
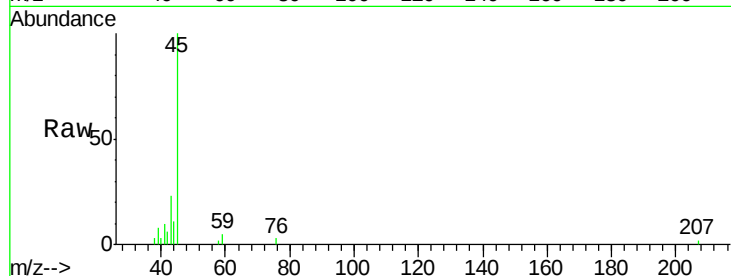




#14
Allvl chloride
Concen: 0.670 ug/l
RT: 4.02 min Scan# 700
Delta R.T. -0.25 min
Lab File: VN061753.D
Acq: 11 Jun 2020 17:37

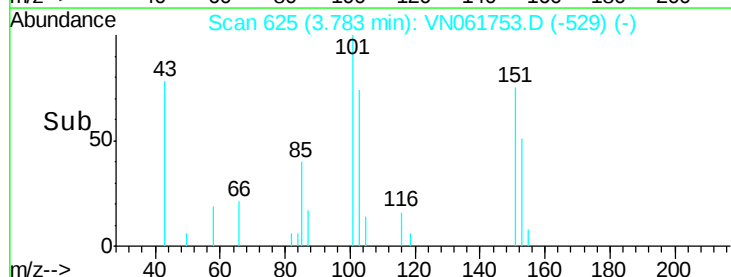
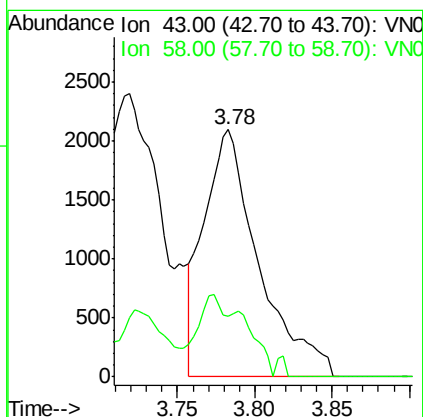
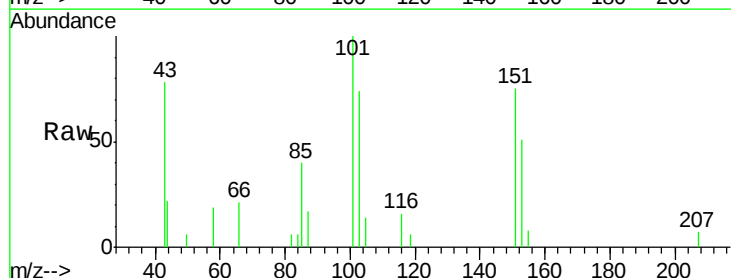
Instrument :
MSVOA_N
ClientSampled :

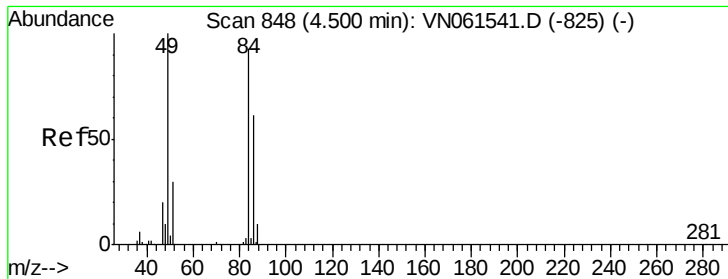
Tot Ion: 41 Resp: 2518
Ion Ratio Lower Upper
41 100
39 58.9 58.6 88.0
76 7.0 34.2 51.4#



#16
Acetone
Concen: Below Cal
RT: 3.78 min Scan# 625
Delta R.T. 0.01 min
Lab File: VN061753.D
Acq: 11 Jun 2020 17:37

Tgt Ion: 43 Resp: 5146
Ion Ratio Lower Upper
43 100
58 24.3 27.2 40.8#





#20

Methylene Chloride

Concen: Below Cal

RT: 4.52 min Scan# 853

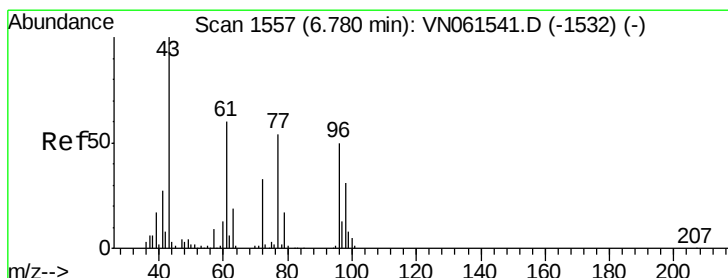
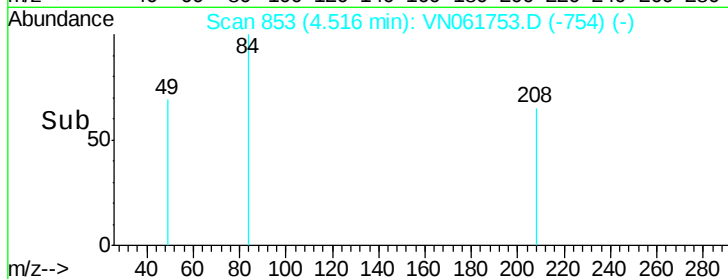
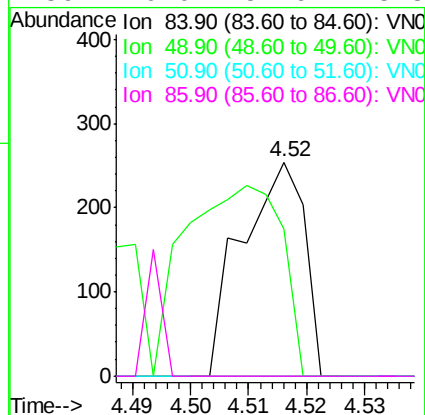
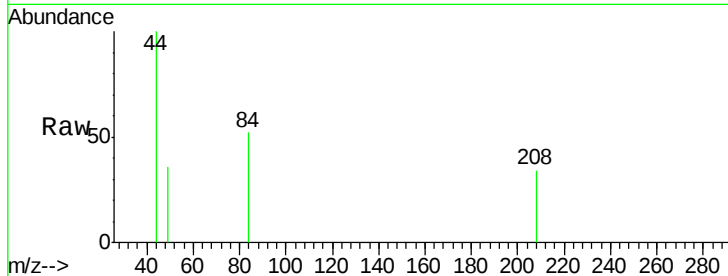
Delta R.T. 0.02 min

Lab File: VN061753.D

Acq: 11 Jun 2020 17:37

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	84	Resp:	190
Ion	Ratio	Lower	Upper
84	100		
49	68.9	85.8	128.8#
51	0.0	26.2	39.2#
86	0.0	52.6	78.8#



#27

cis-1,2-Dichloroethene

Concen: 0.920 ug/l

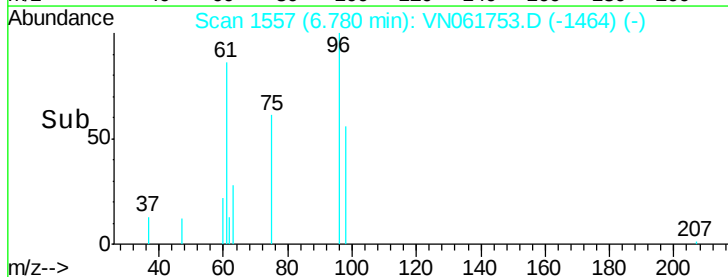
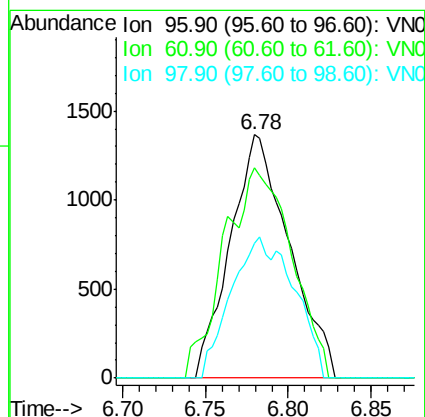
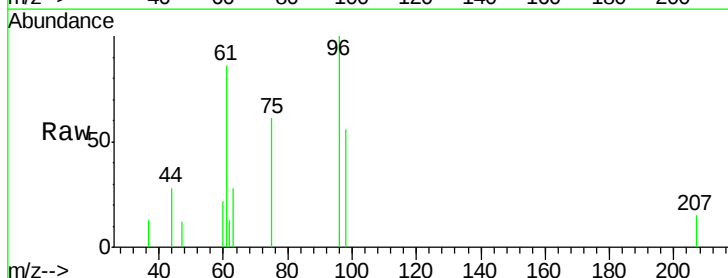
RT: 6.78 min Scan# 1557

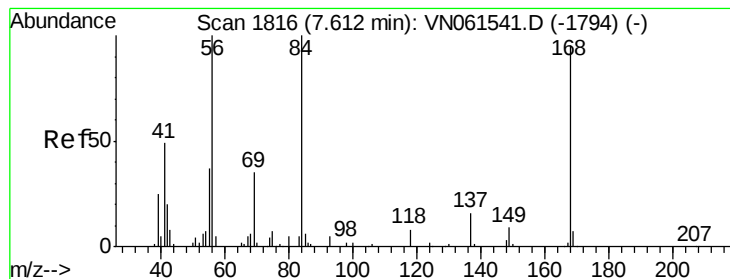
Delta R.T. 0.00 min

Lab File: VN061753.D

Acq: 11 Jun 2020 17:37

Tgt Ion:	96	Resp:	3378
Ion	Ratio	Lower	Upper
96	100		
61	99.0	0.0	252.2
98	62.1	0.0	129.2





#31

Cyclohexane

Concen: 1.100 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN061753.D

Acq: 11 Jun 2020 17:37

Instrument :

MSVOA_N

ClientSampled :

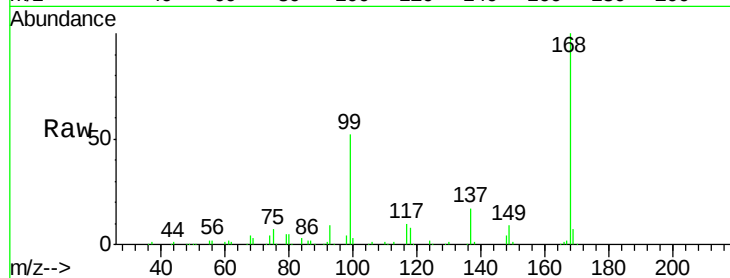
Tot Ion: 56 Resp: 5196

Ion Ratio Lower Upper

56 100

69 123.9 27.8 41.8#

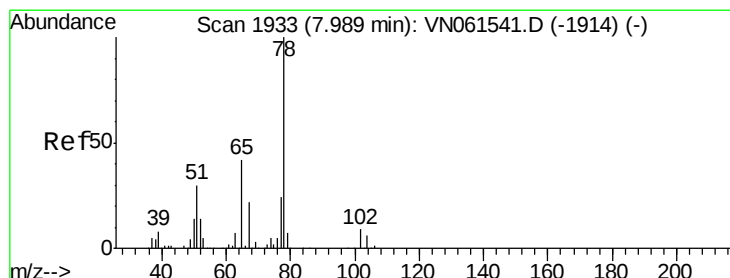
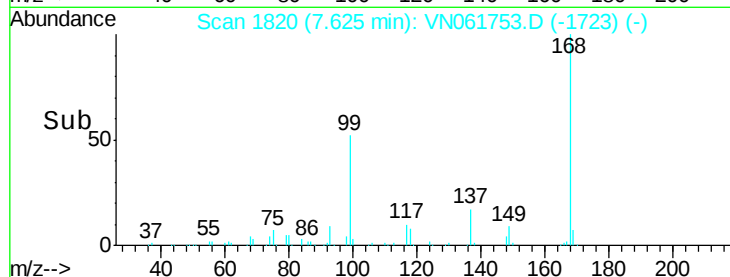
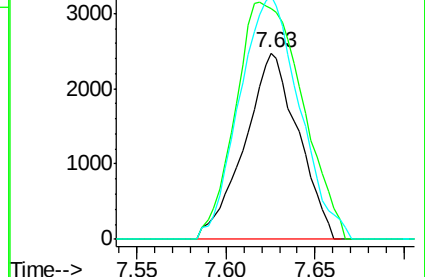
84 130.7 79.9 119.9#



Abundance Ion 56.00 (55.70 to 56.70): VN061753.D (-1794) (-)

Ion 69.00 (68.70 to 69.70): VN061753.D (-1794) (-)

Ion 84.00 (83.70 to 84.70): VN061753.D (-1794) (-)



#33

1,2-Dichloroethane-d4

Concen: 47.470 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN061753.D

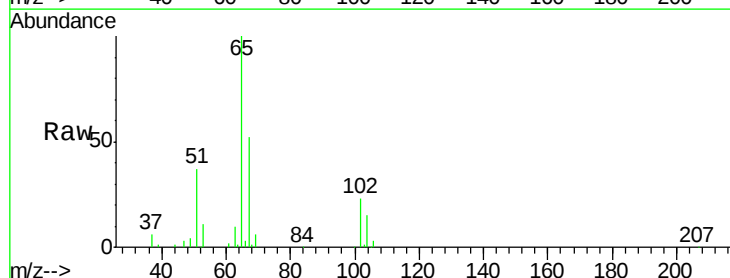
Acq: 11 Jun 2020 17:37

Tgt Ion: 65 Resp: 159085

Ion Ratio Lower Upper

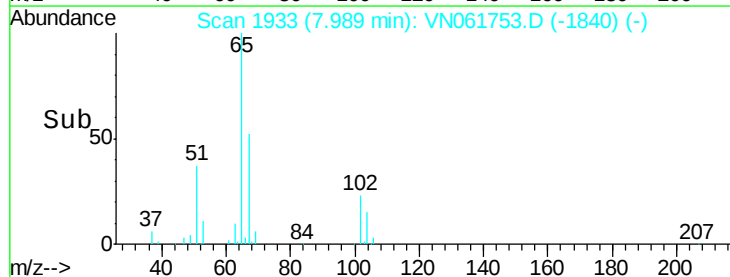
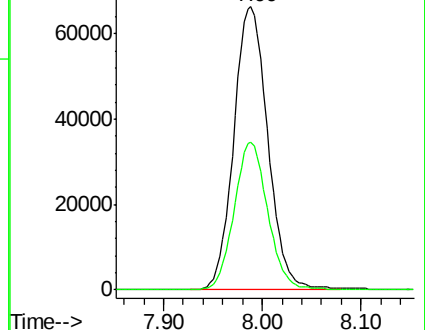
65 100

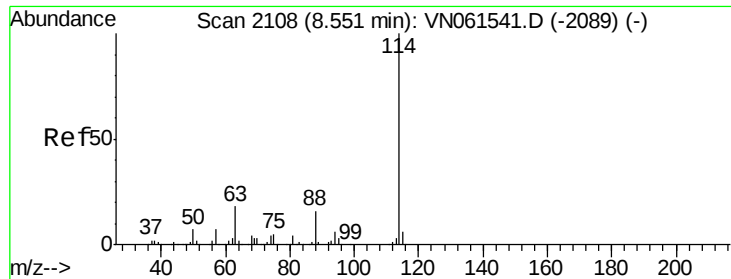
67 51.4 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VN061753.D (-1840) (-)

Ion 66.90 (66.60 to 67.60): VN061753.D (-1840) (-)

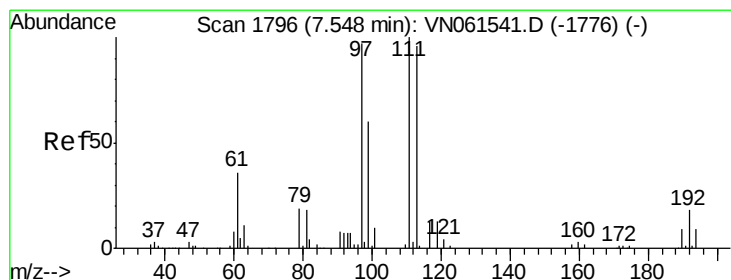
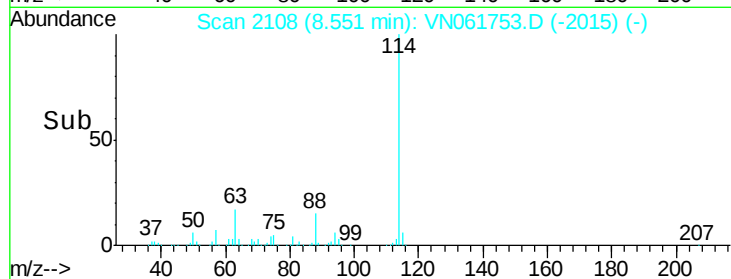
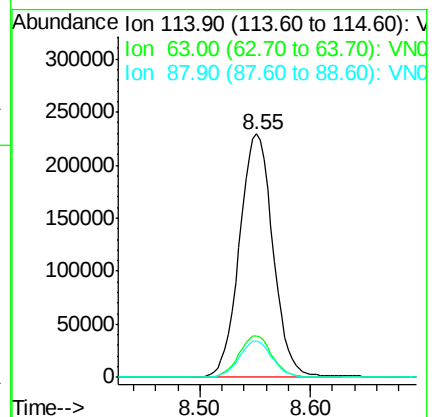
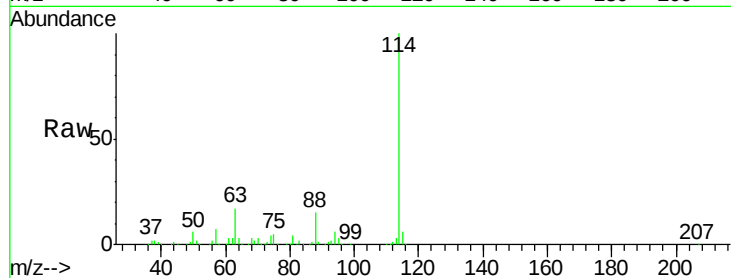




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061753.D
 Acq: 11 Jun 2020 17:37

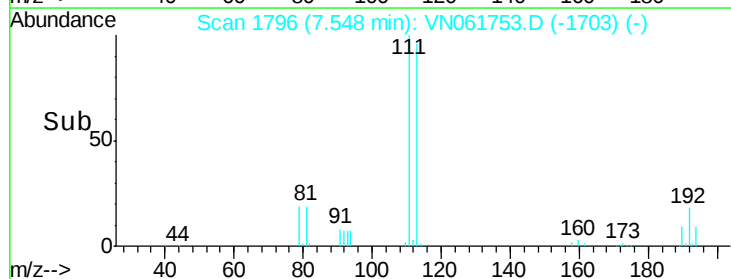
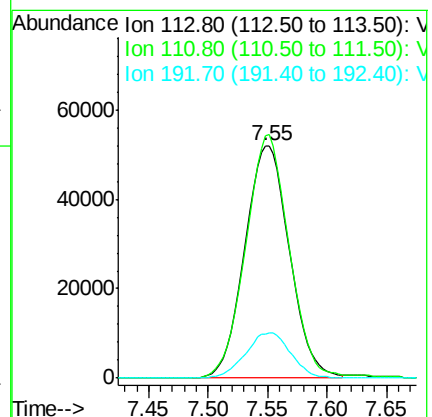
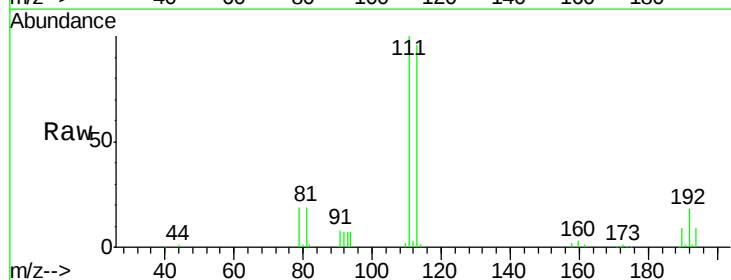
Instrument :
 MSVOA_N
 ClientSampleId :

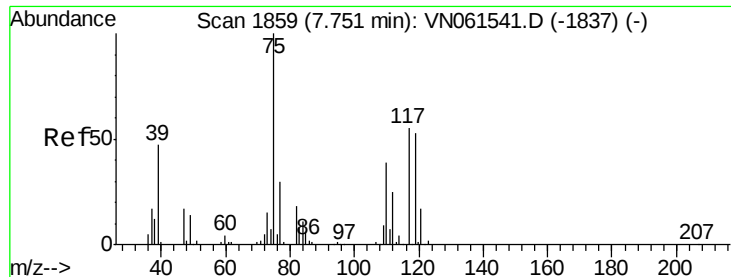
Tot Ion	Ratio	Lower	Upper
114	100		
63	17.1	0.0	35.8
88	14.9	0.0	31.0



#35
 Dibromofluoromethane
 Concen: 55.317 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN061753.D
 Acq: 11 Jun 2020 17:37

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.1	83.4	125.0
192	19.6	15.4	23.2





#36

1,1-Dichloropropene

Concen: 4.509 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN061753.D

Acq: 11 Jun 2020 17:37

Instrument :
MSVOA_N
ClientSampleId :

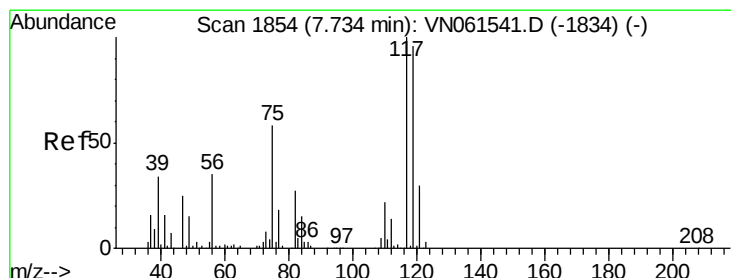
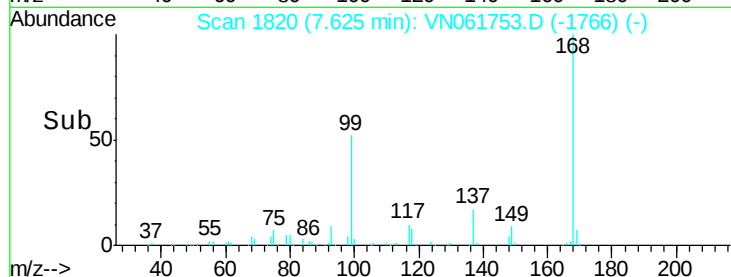
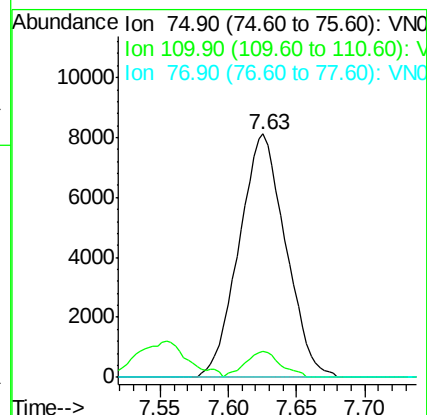
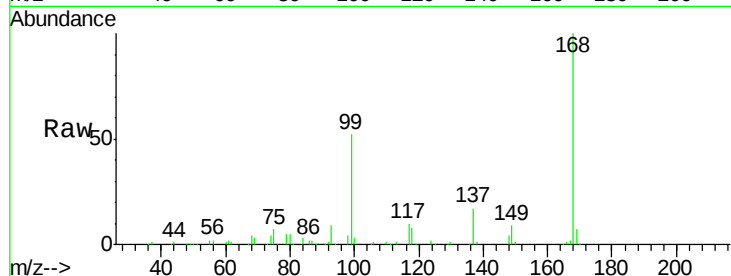
Tot Ion: 75 Resp: 19268

Ion Ratio Lower Upper

75 100

110 8.2 19.5 58.5#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 6.584 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061753.D

Acq: 11 Jun 2020 17:37

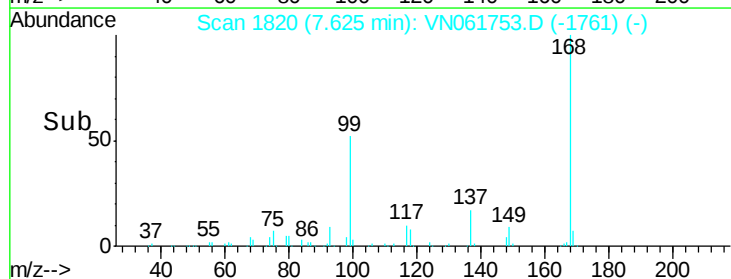
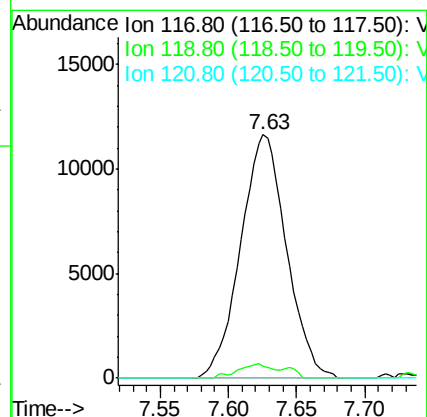
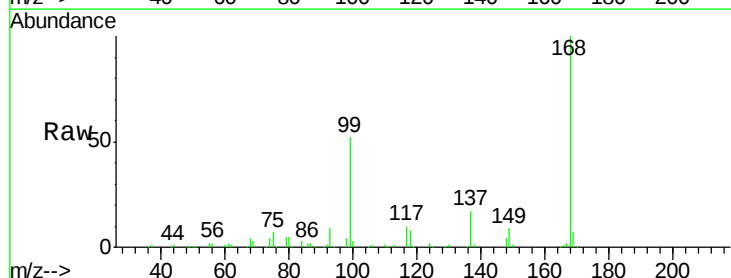
Tgt Ion: 117 Resp: 27137

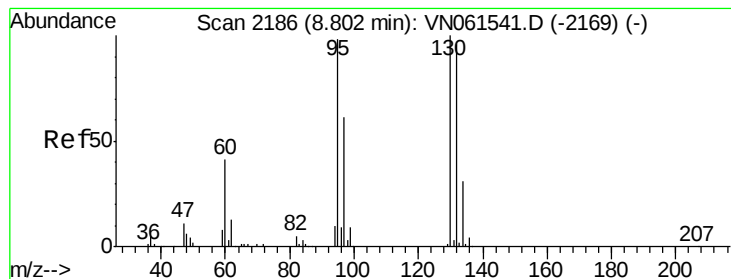
Ion Ratio Lower Upper

117 100

119 5.1 76.5 114.7#

121 0.0 24.1 36.1#





#44

Trichloroethene

Concen: 22.972 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VN061753.D

Acq: 11 Jun 2020 17:37

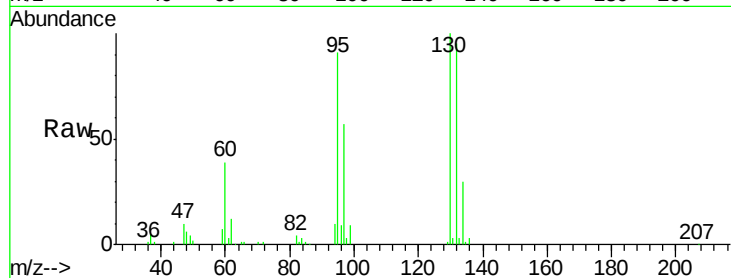
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:130 Resp: 93081

Ion Ratio Lower Upper

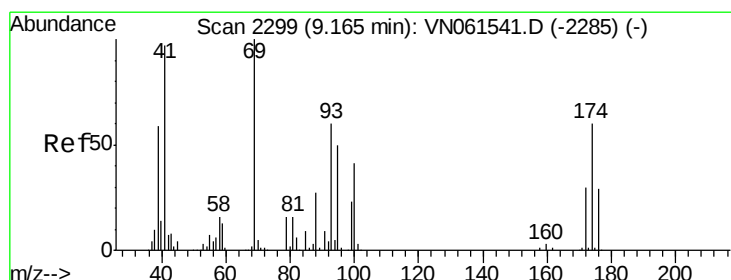
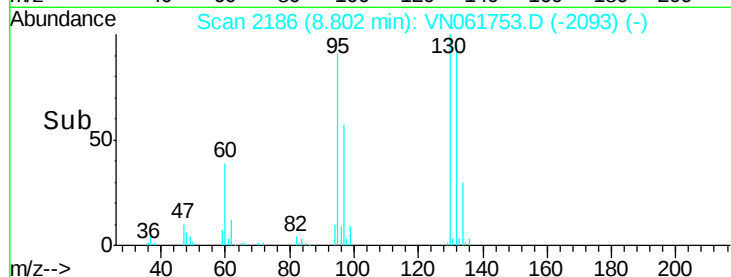
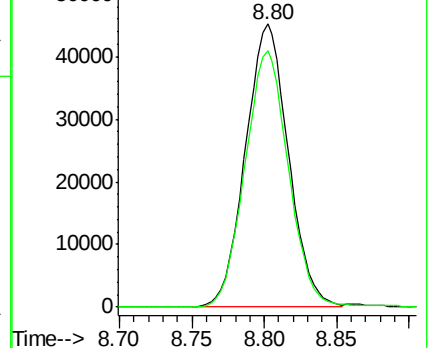
130 100

95 90.6 0.0 196.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0



#49

1,4-Dioxane

Concen: 6.997 ug/l

RT: 9.17 min Scan# 2301

Delta R.T. 0.01 min

Lab File: VN061753.D

Acq: 11 Jun 2020 17:37

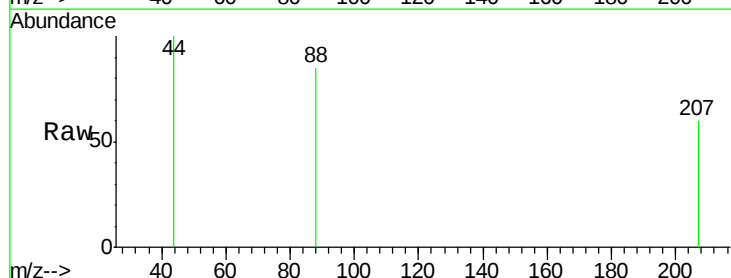
Tgt Ion: 88 Resp: 302

Ion Ratio Lower Upper

88 100

43 9.6 23.1 34.7#

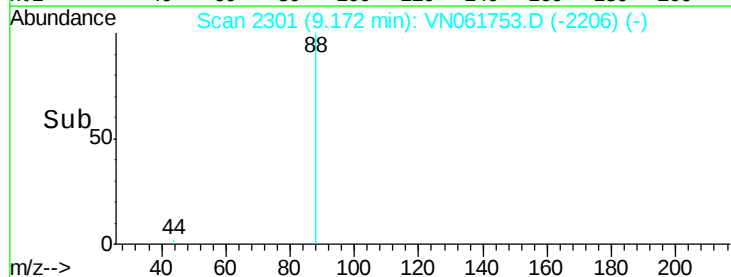
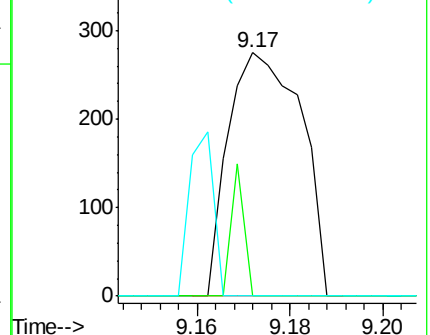
58 21.9 48.3 72.5#

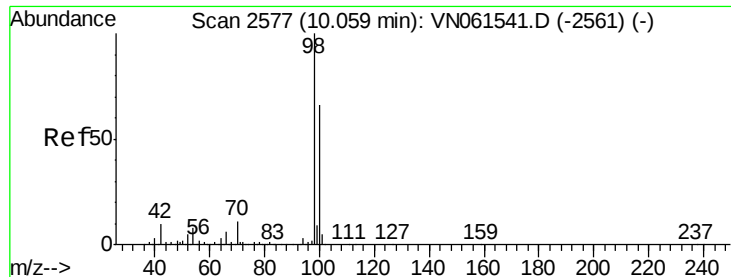


Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#50

Toluene-d8

Concen: 51.424 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061753.D

Acq: 11 Jun 2020 17:37

Instrument :

MSVOA_N

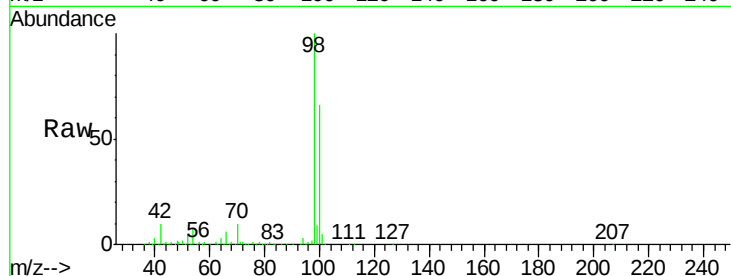
ClientSampleId :

Tot Ion: 98 Resp: 583530

Ion Ratio Lower Upper

98 100

100 65.7 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VN061753.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN061753.D (-2484) (-)

10.06

300000

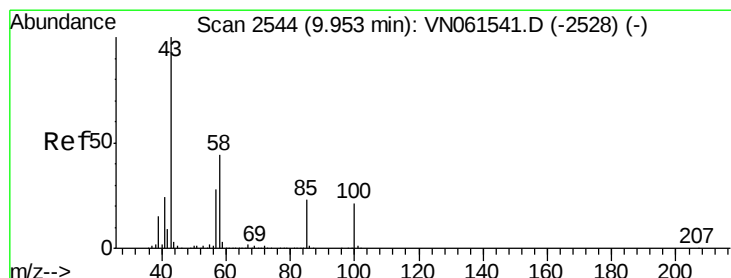
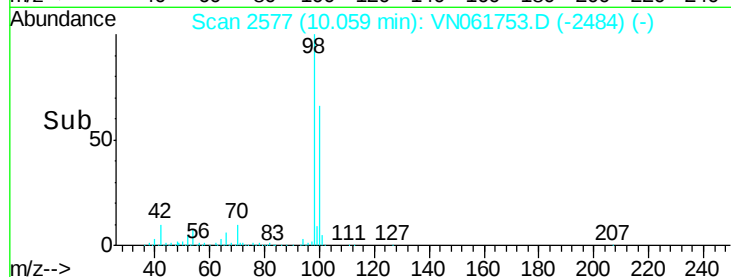
200000

100000

0

Time-->

10.00 10.10 10.20



#51

4-Methyl-2-Pentanone

Concen: 0.564 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.11 min

Lab File: VN061753.D

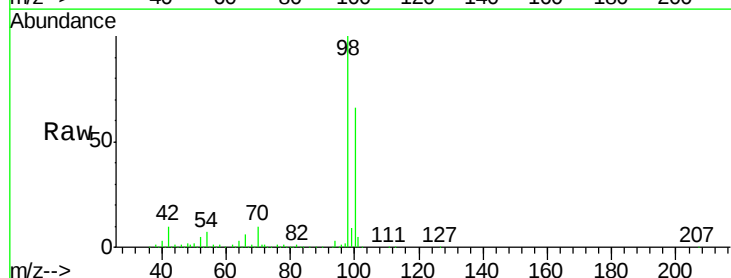
Acq: 11 Jun 2020 17:37

Tgt Ion: 43 Resp: 1969

Ion Ratio Lower Upper

43 100

58 203.4 35.0 52.6#



Abundance Ion 43.00 (42.70 to 43.70): VN061753.D (-2451) (-)

Ion 58.00 (57.70 to 58.70): VN061753.D (-2451) (-)

2500

2000

1500

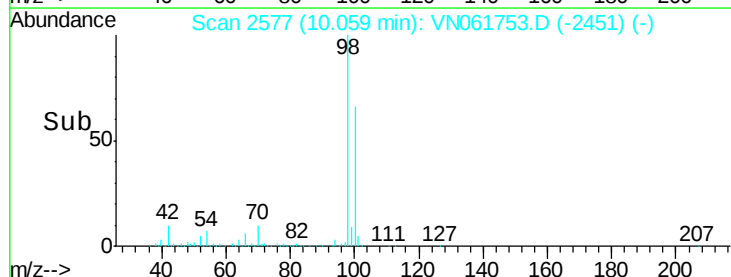
1000

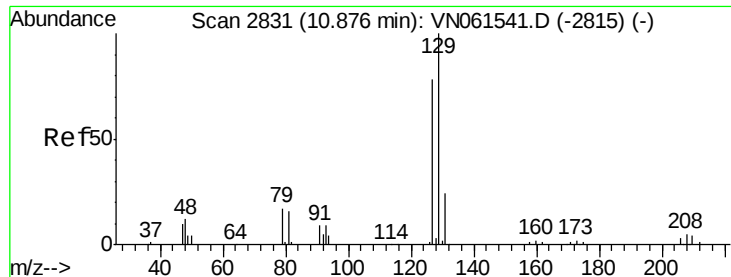
500

0

Time-->

10.00 10.05 10.10

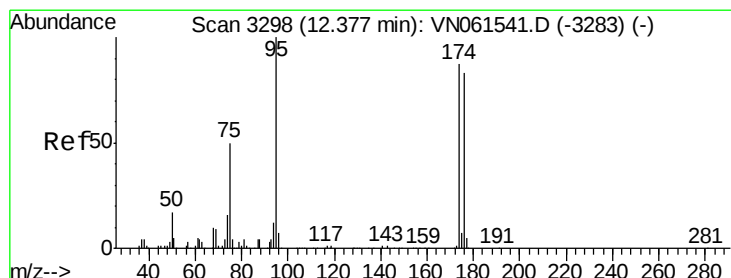
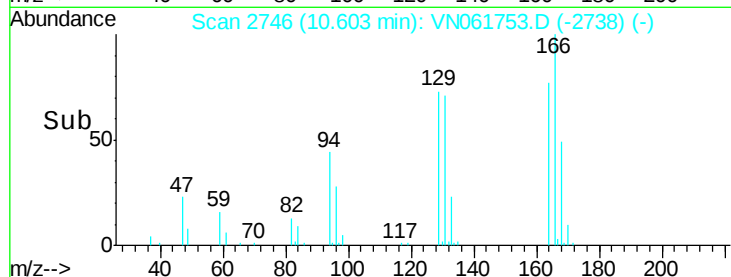
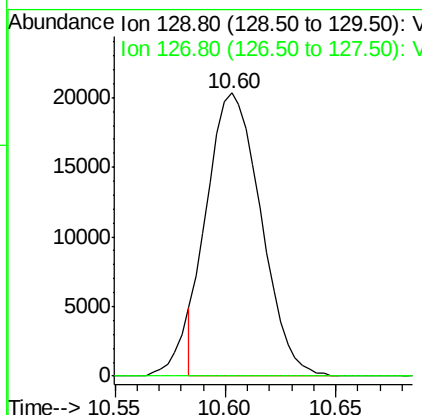
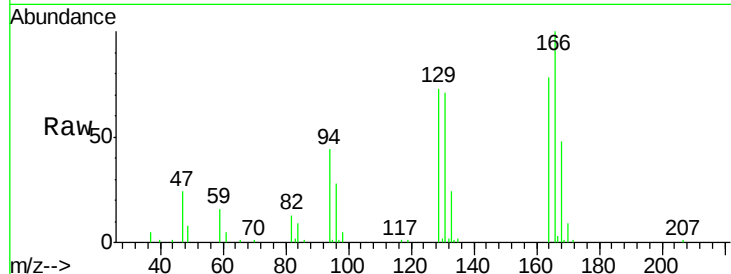




#60
 Dibromochloromethane
 Concen: 8.789 ug/l
 RT: 10.60 min Scan# 2746
 Delta R.T. -0.27 min
 Lab File: VN061753.D
 Acq: 11 Jun 2020 17:37

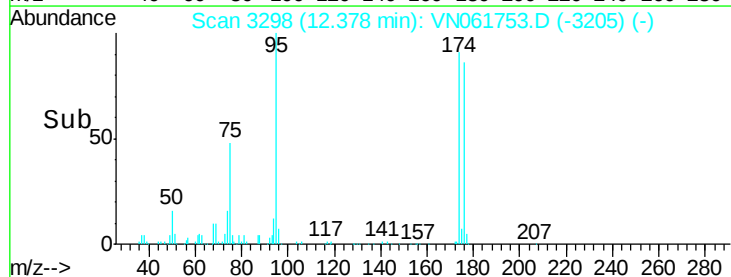
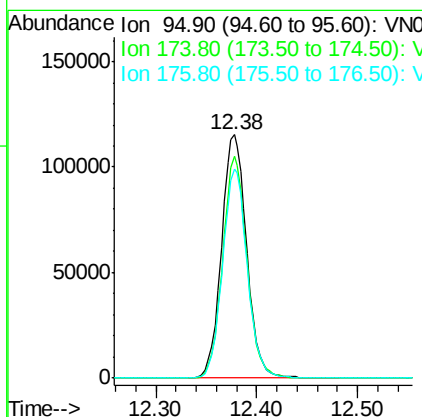
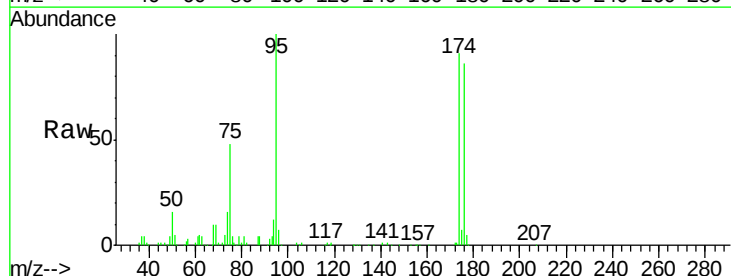
Instrument :
 MSVOA_N
 ClientSampleId :

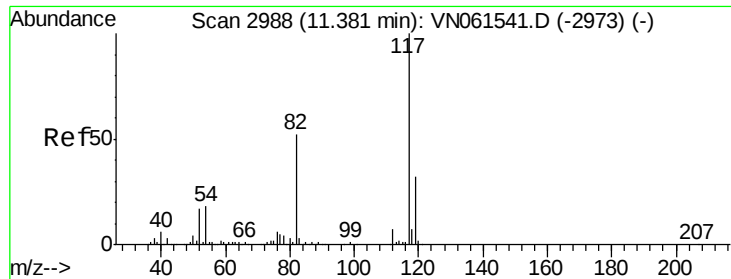
Tot Ion:129 Resp: 34255
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.8 116.3#



#62
 4-Bromofluorobenzene
 Concen: 48.404 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.00 min
 Lab File: VN061753.D
 Acq: 11 Jun 2020 17:37

Tgt Ion: 95 Resp: 200389
 Ion Ratio Lower Upper
 95 100
 174 88.2 0.0 172.8
 176 84.4 0.0 164.8

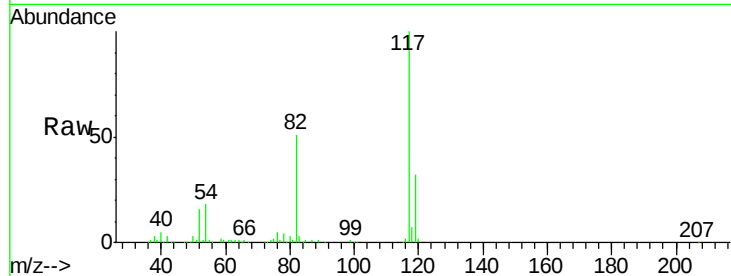




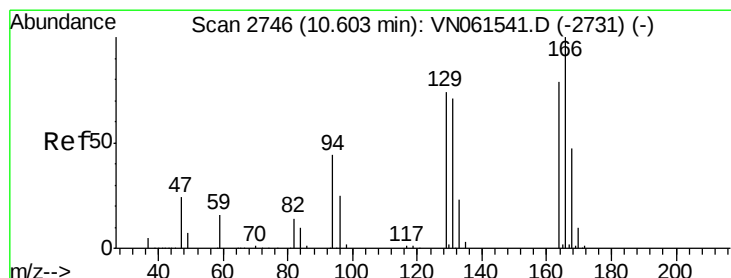
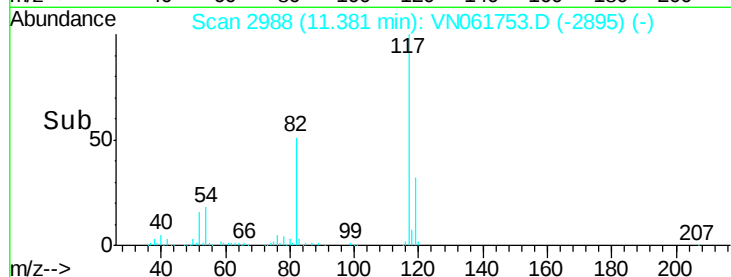
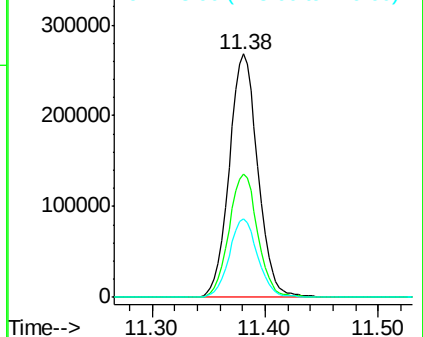
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061753.D
Acq: 11 Jun 2020 17:37

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 472354
Ion Ratio Lower Upper
117 100
82 50.7 41.5 62.3
119 32.1 25.6 38.4

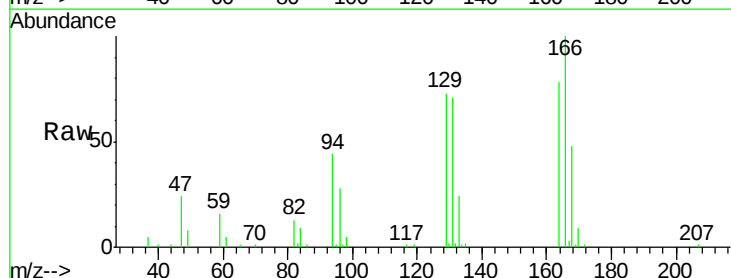


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

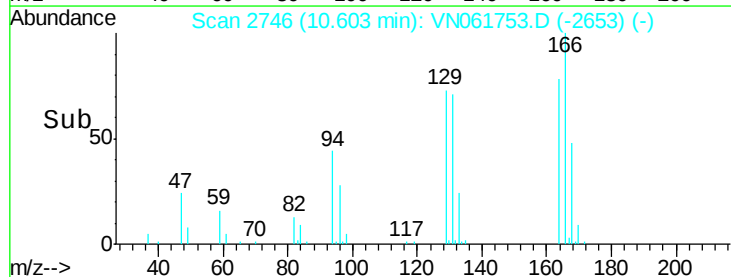
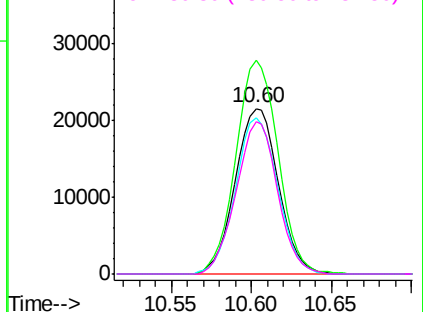


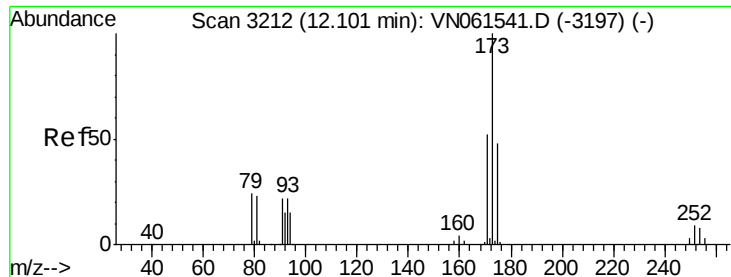
#64
Tetrachloroethene
Concen: 8.889 ug/l
RT: 10.60 min Scan# 2746
Delta R.T. 0.00 min
Lab File: VN061753.D
Acq: 11 Jun 2020 17:37

Tgt Ion:164 Resp: 39523
Ion Ratio Lower Upper
164 100
166 129.0 101.5 152.3
129 94.5 74.9 112.3
131 91.7 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: 0.575 ug/l

RT: 12.38 min Scan# 3299

Delta R.T. 0.28 min

Lab File: VN061753.D

Acq: 11 Jun 2020 17:37

Instrument :

MSVOA_N

ClientSampleId :

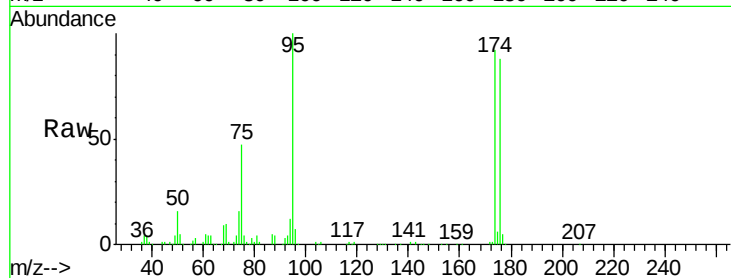
Tot Ion:173 Resp: 1621

Ion Ratio Lower Upper

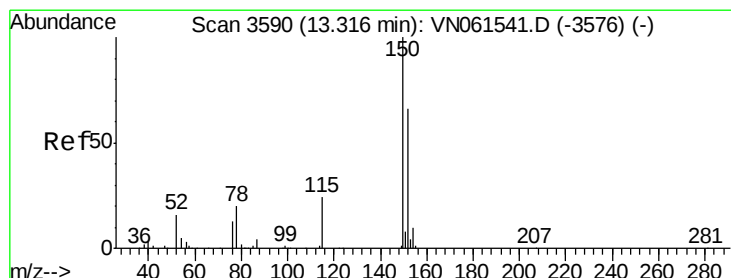
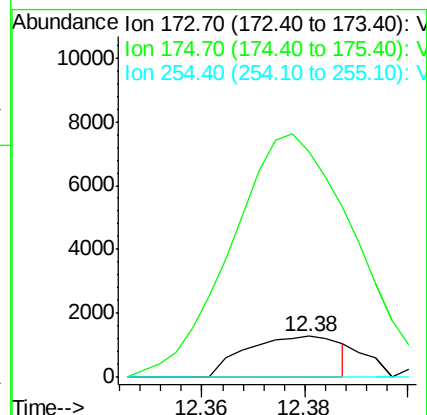
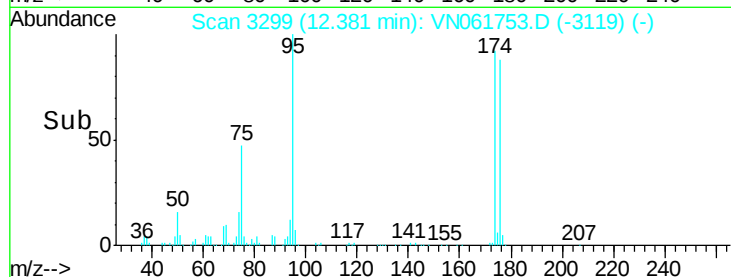
173 100

175 647.3 24.4 73.2#

254 0.0 0.0 0.0



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: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061753.D

Acq: 11 Jun 2020 17:37

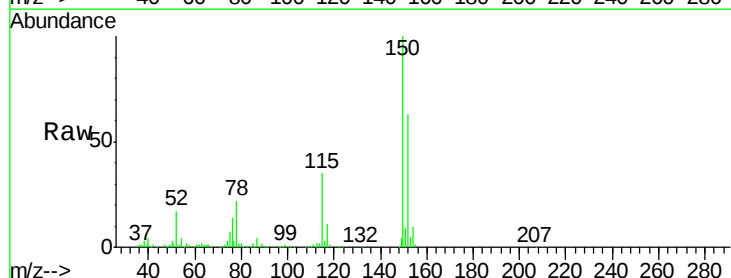
Tgt Ion:152 Resp: 211969

Ion Ratio Lower Upper

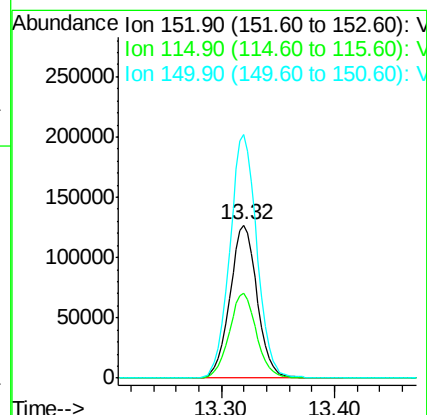
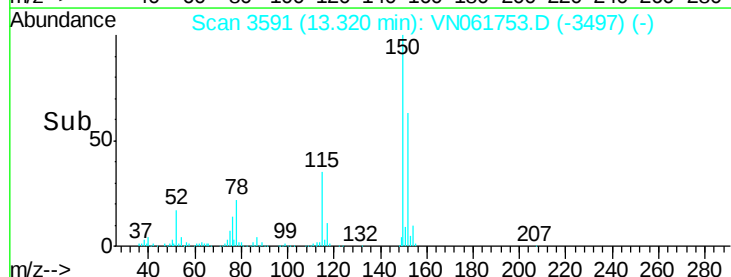
152 100

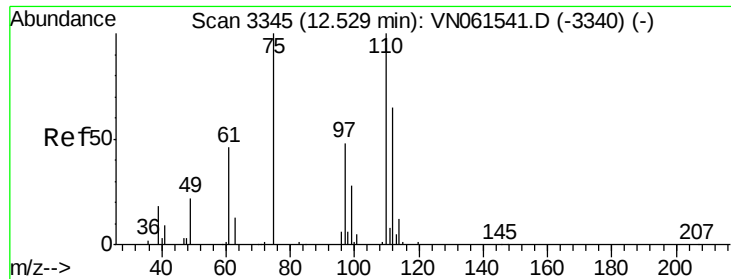
115 55.6 28.0 84.0

150 159.1 0.0 344.0



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: 24.534 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061753.D

Acq: 11 Jun 2020 17:37

Instrument :

MSVOA_N

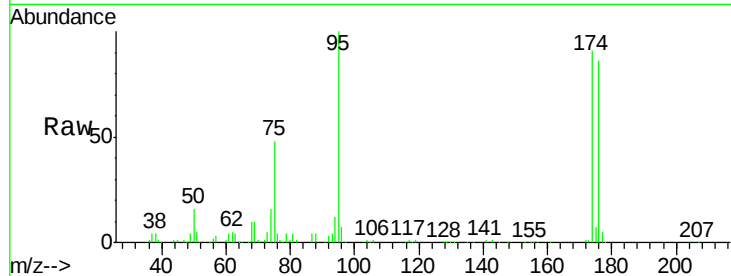
ClientSampled :

Tot Ion: 75 Resp: 94566

Ion Ratio Lower Upper

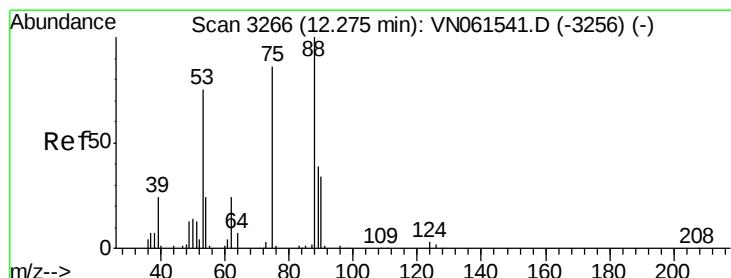
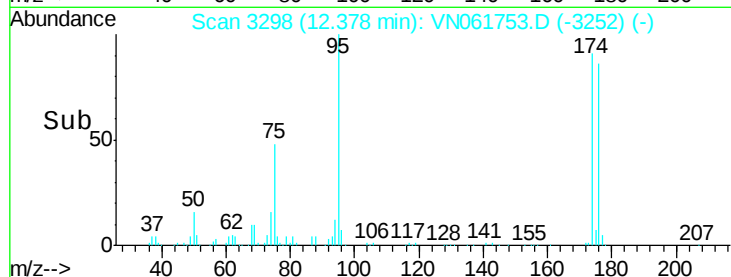
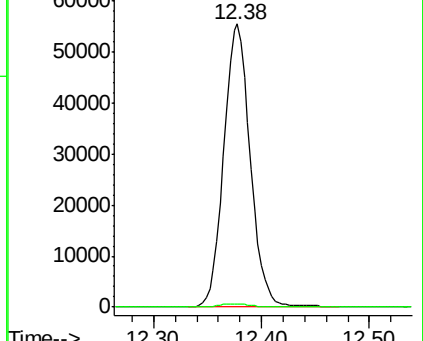
75 100

77 1.3 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: 62.741 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061753.D

Acq: 11 Jun 2020 17:37

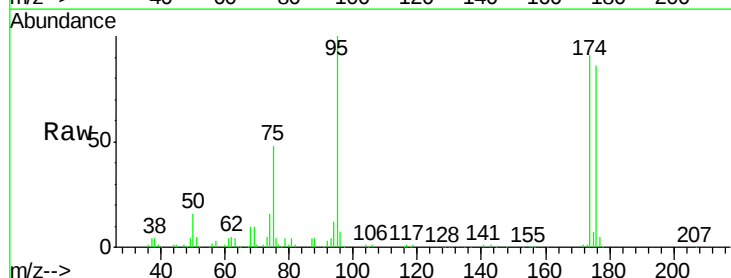
Tgt Ion: 75 Resp: 94566

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

89 0.0 37.1 55.7#



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

