

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022620\
 Data File : VN060251.D
 Acq On : 26 Feb 2020 15:12
 Operator : JC/MD
 Sample : L1676-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 27 04:34:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	211128	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	341697	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	317941	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	152126	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	131378	51.14	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.28%	
35) Dibromofluoromethane	7.57	113	94045	44.77	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.54%	
50) Toluene-d8	10.08	98	418187	50.56	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.12%	
62) 4-Bromofluorobenzene	12.40	95	157582	51.85	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.70%	

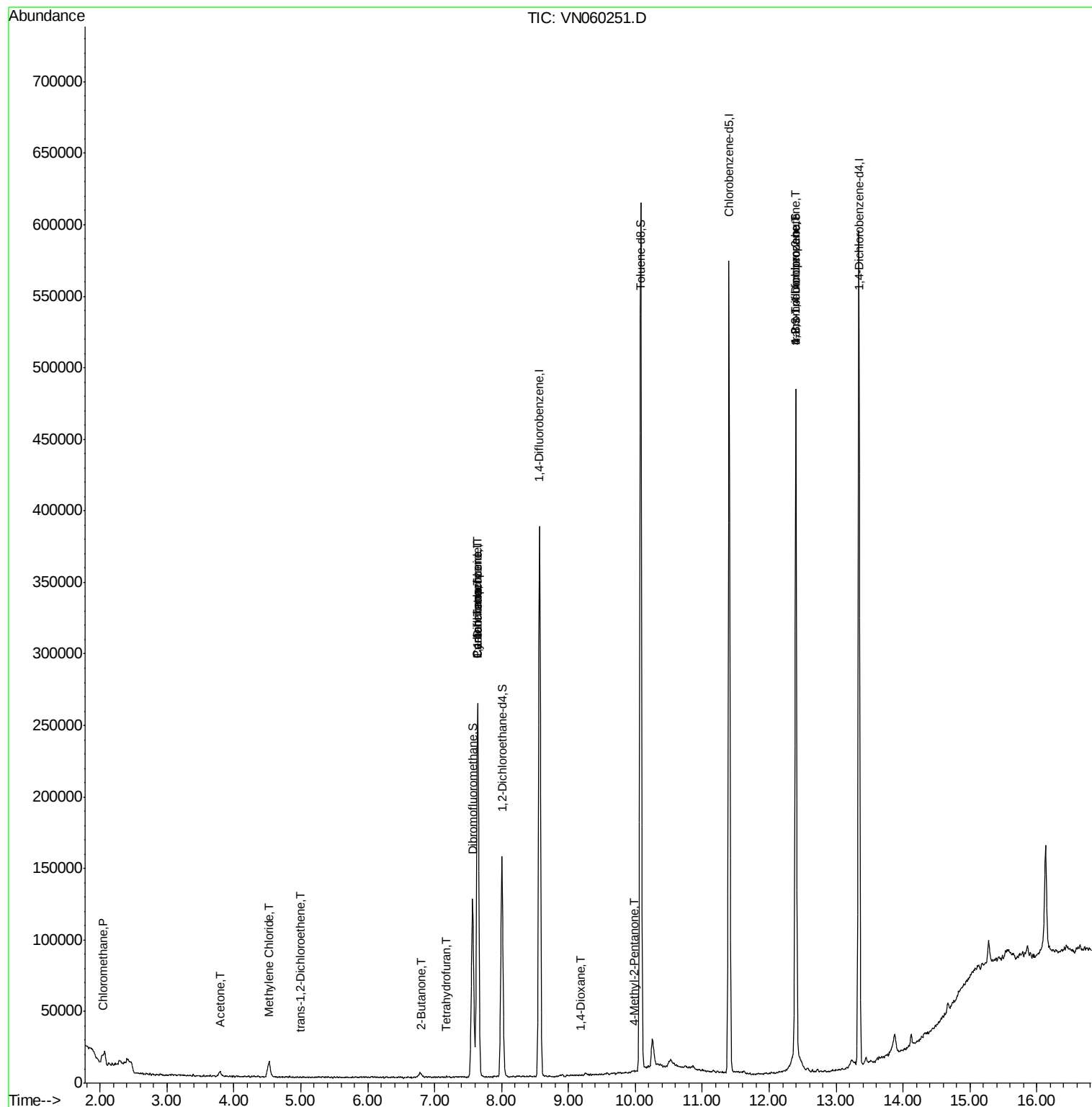
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	707	0.282	ug/l #	85
16) Acetone	3.79	43	5900	5.265	ug/l	94
20) Methylene Chloride	4.53	84	7704	3.446	ug/l	93
21) trans-1,2-Dichloroethene	5.00	96	437	0.201	ug/l #	1
25) 2-Butanone	6.81	43	1622	1.151	ug/l #	46
29) Tetrahydrofuran	7.18	42	282	0.326	ug/l #	30
31) Cyclohexane	7.64	56	4825	1.328	ug/l #	18
36) 1,1-Dichloropropene	7.64	75	16861	5.327	ug/l #	47
38) Carbon Tetrachloride	7.64	117	20186	5.873	ug/l #	16
49) 1,4-Dioxane	9.18	88	189	5.042	ug/l #	25
51) 4-Methyl-2-Pentanone	9.97	43	667	0.236	ug/l #	35
76) 1,2,3-Trichloropropane	12.40	75	81475	27.993	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	81475	68.542	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.27	75	71	Below Cal	#	1

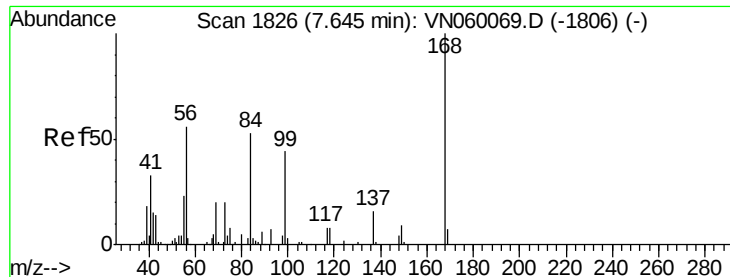
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN060251.D

Acq: 26 Feb 2020 15:12

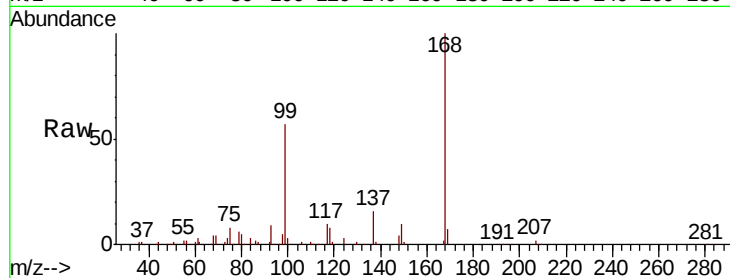
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 211128

Ion Ratio Lower Upper

168 100

99 57.1 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

100000

80000

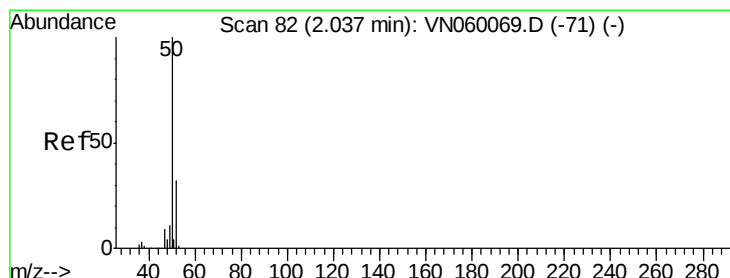
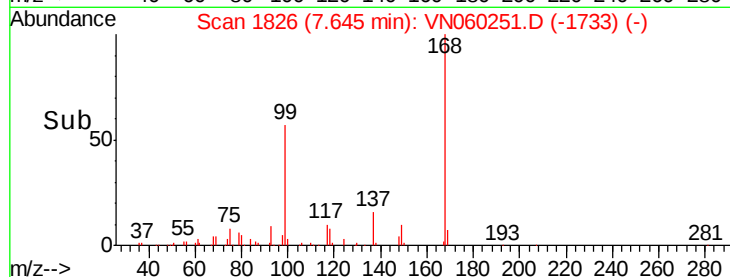
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.282 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN060251.D

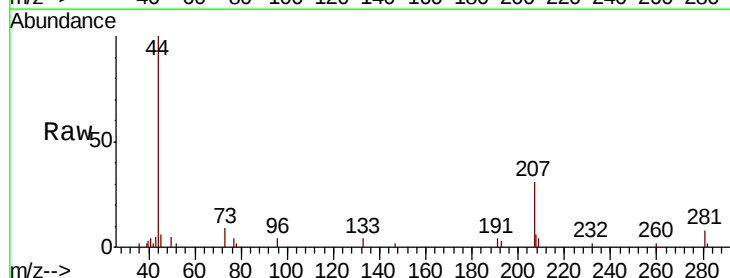
Acq: 26 Feb 2020 15:12

Tgt Ion: 50 Resp: 707

Ion Ratio Lower Upper

50 100

52 40.5 25.6 38.4#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

500

400

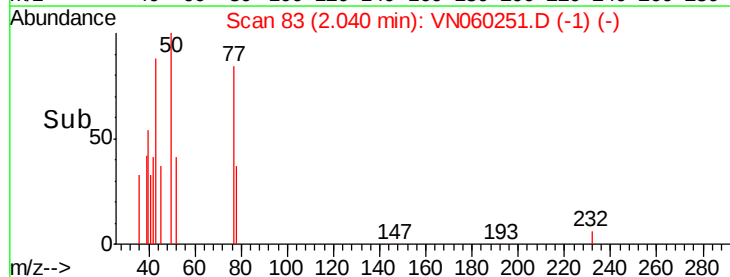
300

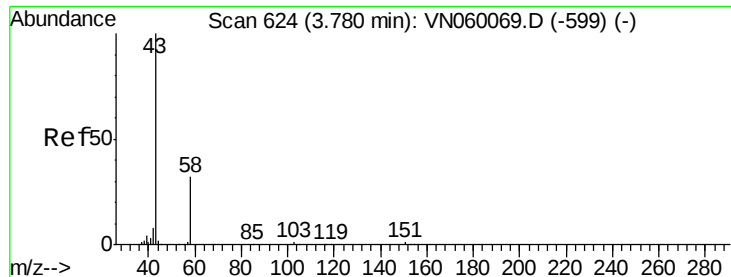
200

100

0

Time-->

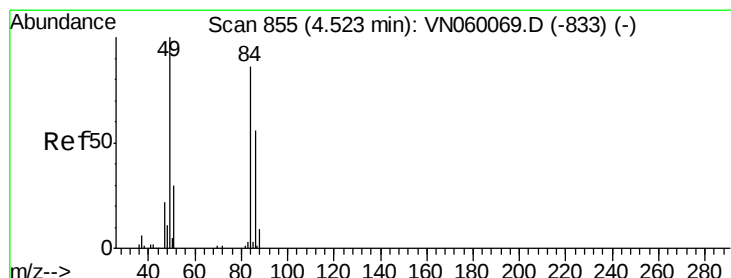
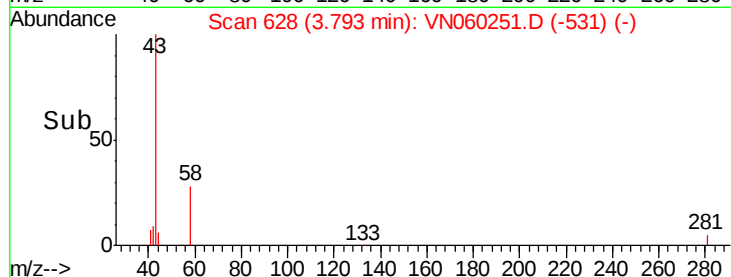
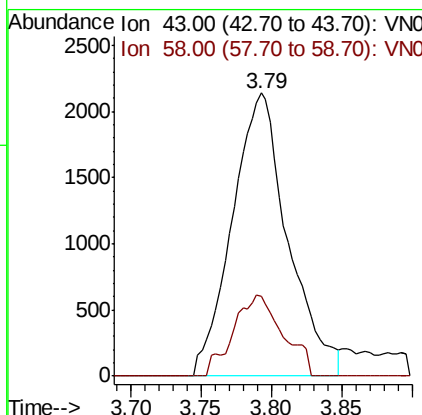
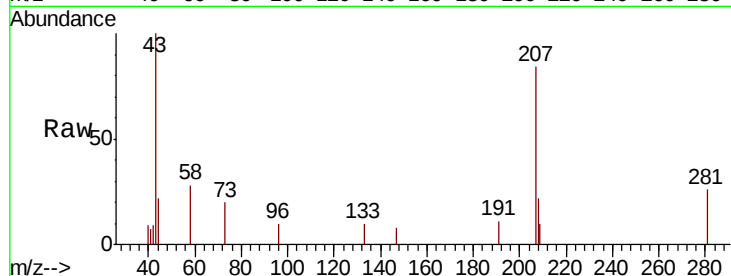




#16
Acetone
Concen: 5.265 ug/l
RT: 3.79 min Scan# 628
Delta R.T. 0.01 min
Lab File: VN060251.D
Acq: 26 Feb 2020 15:12

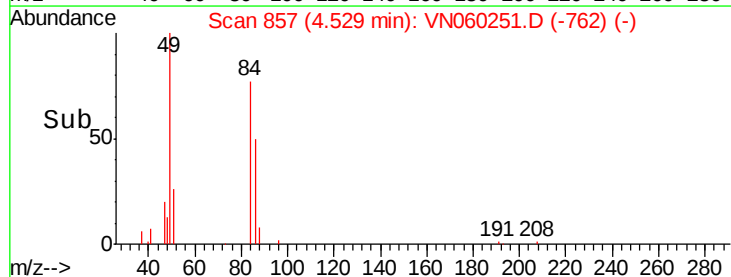
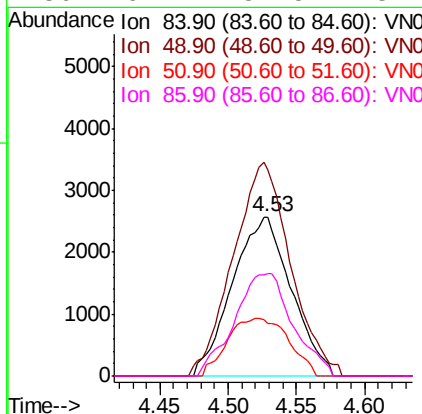
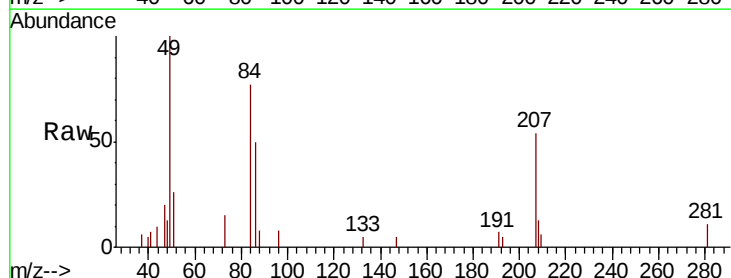
Instrument :
MSVOA_N
ClientSampleId :

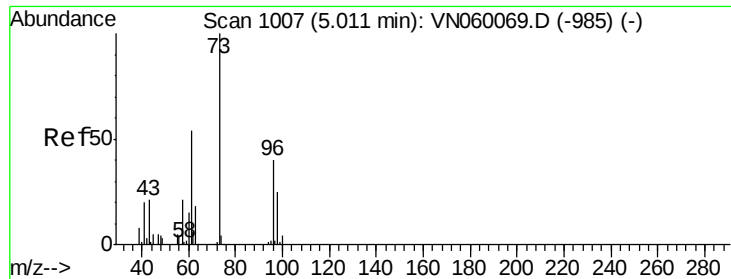
Tot Ion: 43 Resp: 5900
Ion Ratio Lower Upper
43 100
58 28.2 25.2 37.8



#20
Methylene Chloride
Concen: 3.446 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN060251.D
Acq: 26 Feb 2020 15:12

Tgt Ion: 84 Resp: 7704
Ion Ratio Lower Upper
84 100
49 129.5 93.4 140.0
51 33.2 28.4 42.6
86 64.4 52.5 78.7





#21

trans-1,2-Dichloroethene

Concen: 0.201 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. -0.02 min

Lab File: VN060251.D

Acq: 26 Feb 2020 15:12

Instrument :

MSVOA_N

ClientSampleId :

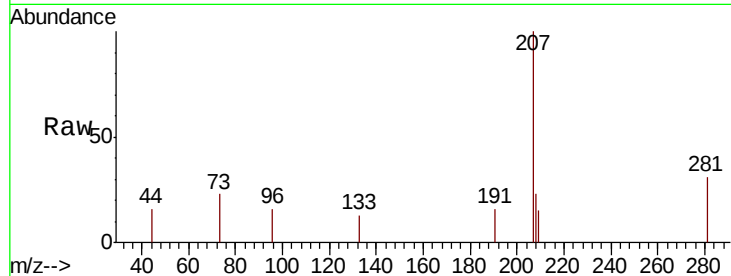
Tot Ion: 96 Resp: 437

Ion Ratio Lower Upper

96 100

61 0.0 109.3 163.9#

98 0.0 51.0 76.6#



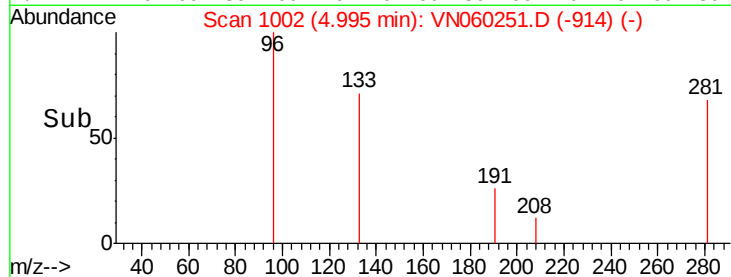
Abundance Ion 95.90 (95.60 to 96.60): VN060069.D (-985) (-)

Ion 60.90 (60.60 to 61.60): VN060069.D (-985) (-)

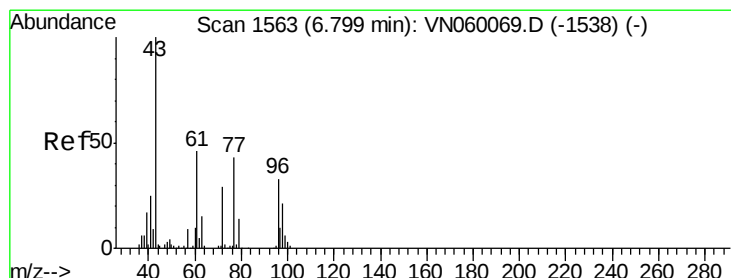
Ion 97.90 (97.60 to 98.60): VN060069.D (-985) (-)

5.00

4.98 5.02



Time-->



#25

2-Butanone

Concen: 1.151 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. 0.01 min

Lab File: VN060251.D

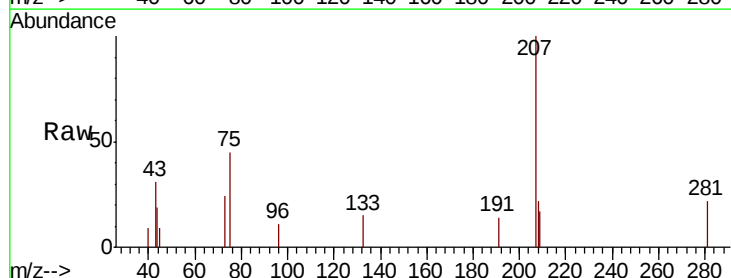
Acq: 26 Feb 2020 15:12

Tgt Ion: 43 Resp: 1622

Ion Ratio Lower Upper

43 100

72 0.0 23.3 34.9#

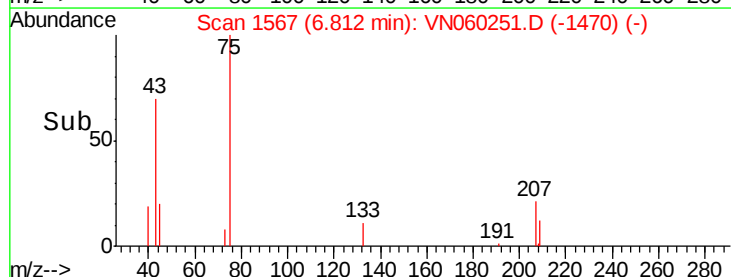


Abundance Ion 43.00 (42.70 to 43.70): VN060069.D (-1538) (-)

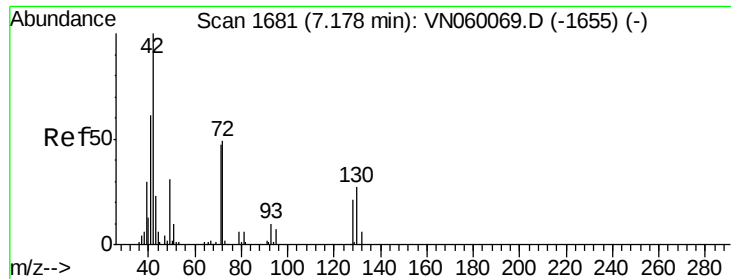
Ion 72.00 (71.70 to 72.70): VN060069.D (-1538) (-)

6.81

6.75 6.85



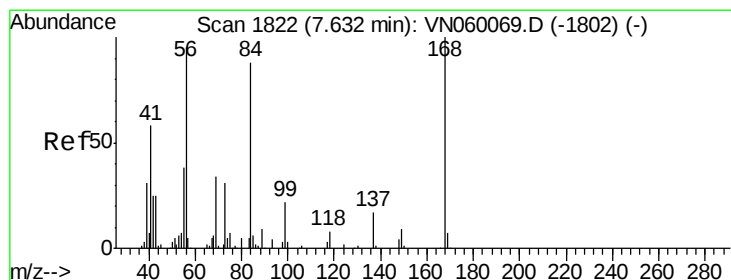
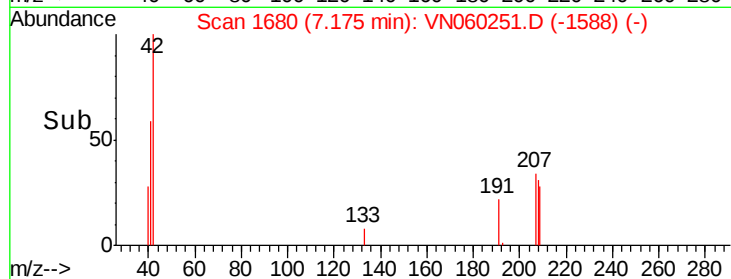
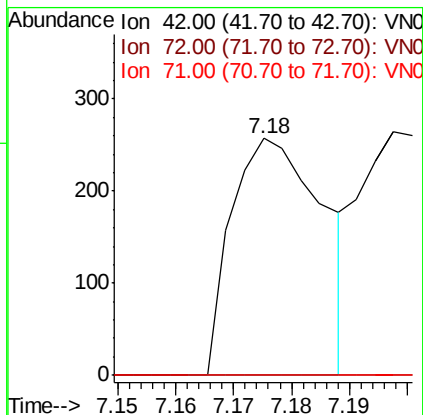
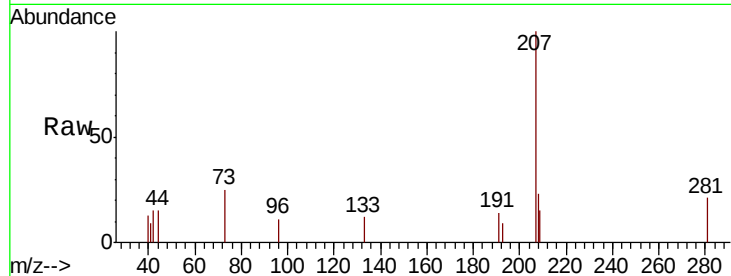
Time-->



#29
Tetrahydrofuran
Concen: 0.326 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN060251.D
Acq: 26 Feb 2020 15:12

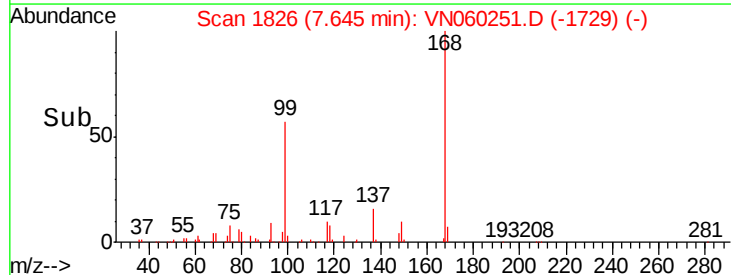
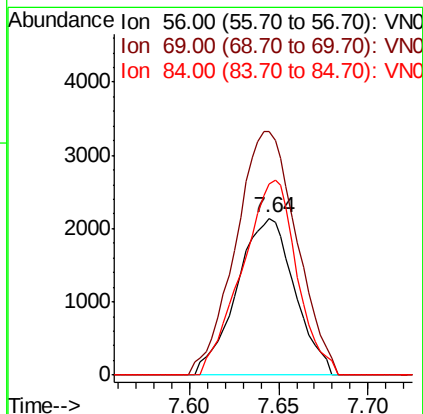
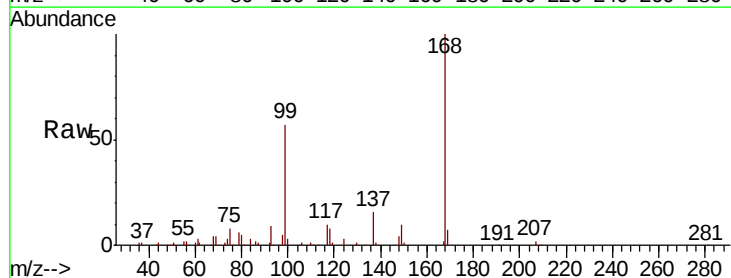
Instrument :
MSVOA_N
ClientSampleId :

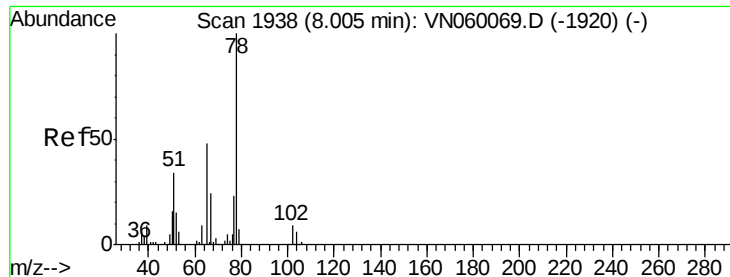
Tot Ion: 42 Resp: 282
Ion Ratio Lower Upper
42 100
72 0.0 38.2 57.4#
71 0.0 36.6 54.8#



#31
Cyclohexane
Concen: 1.328 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN060251.D
Acq: 26 Feb 2020 15:12

Tgt Ion: 56 Resp: 4825
Ion Ratio Lower Upper
56 100
69 155.4 28.3 42.5#
84 122.2 72.6 108.8#





#33

1,2-Dichloroethane-d4

Concen: 51.138 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN060251.D

Acq: 26 Feb 2020 15:12

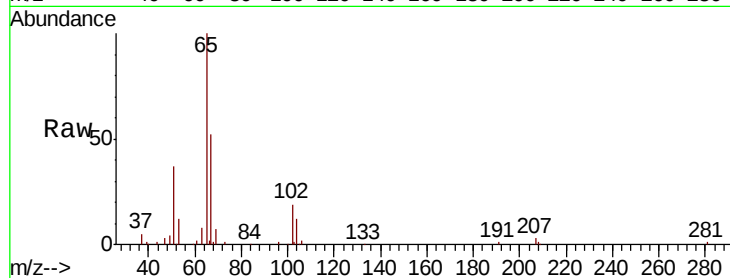
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 65 Resp: 131378

Ion Ratio Lower Upper

65 100

67 52.1 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN060251.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN060251.D (-1845) (-)

8.00

60000

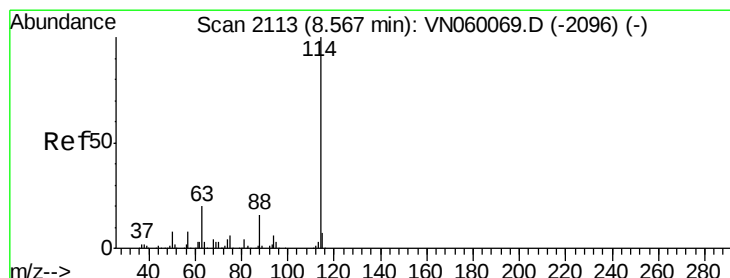
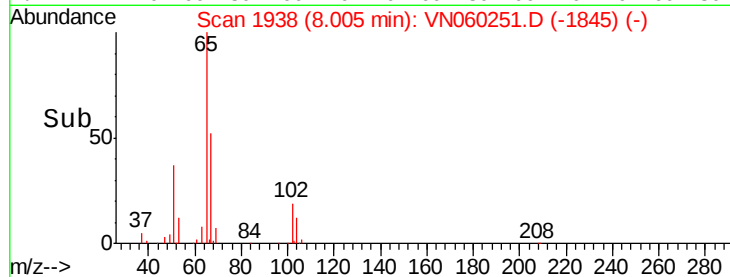
40000

20000

0

7.90 8.00 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN060251.D

Acq: 26 Feb 2020 15:12

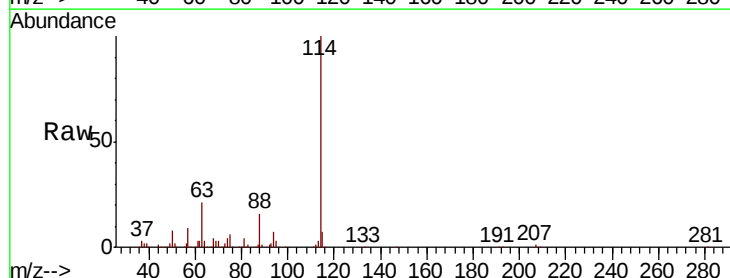
Tgt Ion: 114 Resp: 341697

Ion Ratio Lower Upper

114 100

63 21.1 0.0 40.0

88 15.7 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): VN060251.D (-2020) (-)

Ion 63.00 (62.70 to 63.70): VN060251.D (-2020) (-)

Ion 87.90 (87.60 to 88.60): VN060251.D (-2020) (-)

8.57

200000

150000

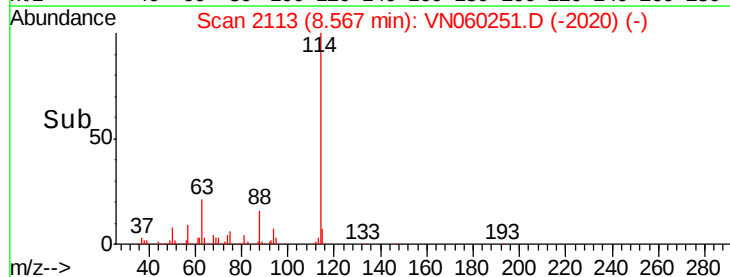
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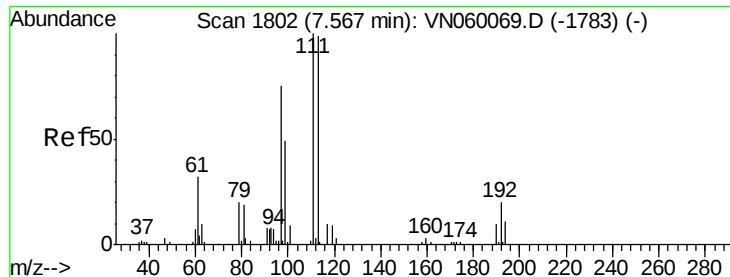
50000

0

8.50 8.60 8.70

Time-->

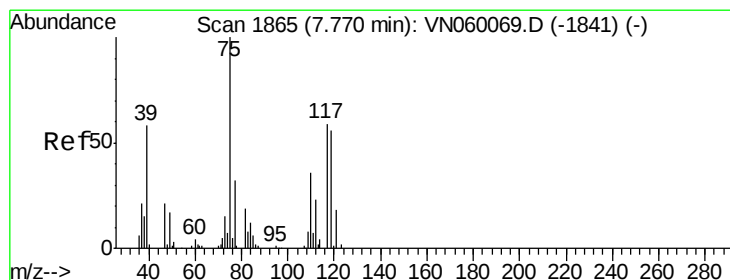
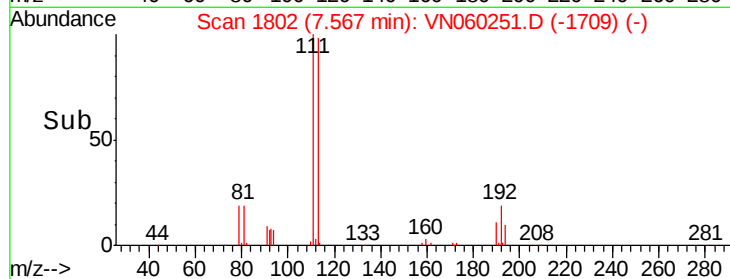
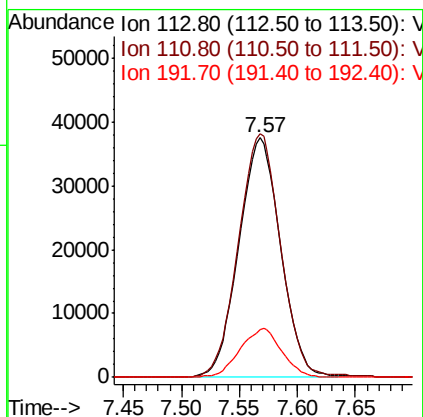
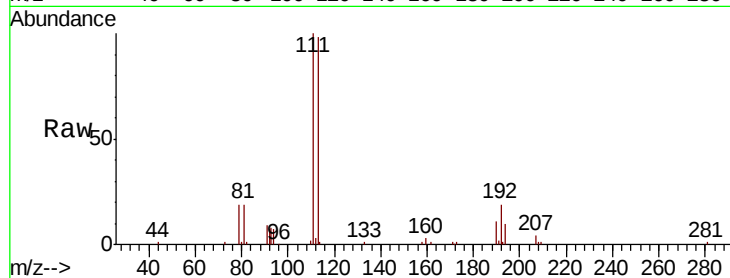




#35
 Dibromofluoromethane
 Concen: 44.775 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN060251.D
 Acq: 26 Feb 2020 15:12

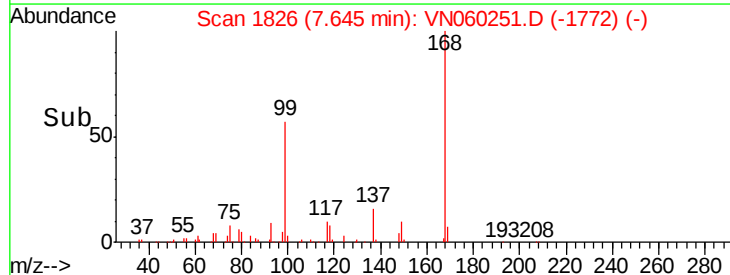
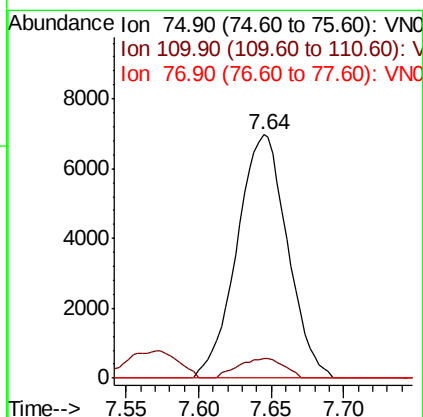
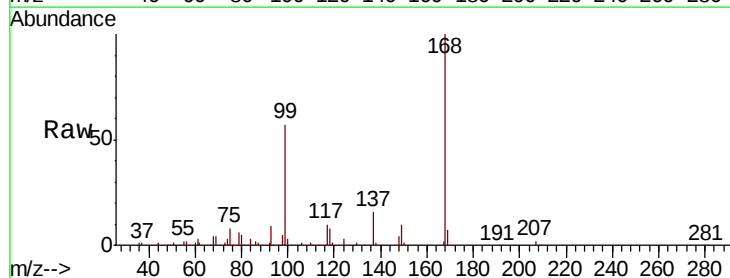
Instrument :
 MSVOA_N
 ClientSampleId :

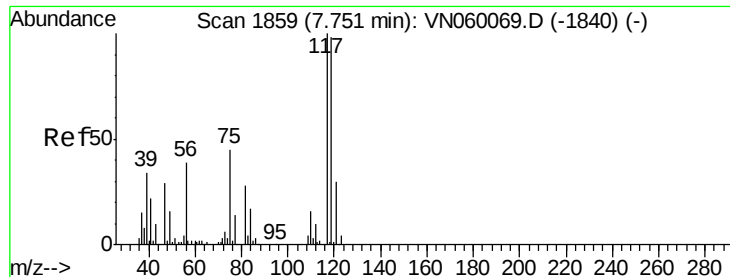
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.4	122.2
192	20.4	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 5.327 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060251.D
 Acq: 26 Feb 2020 15:12

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.3	18.1	54.3#
77	0.0	25.1	37.7#





#38

Carbon Tetrachloride

Concen: 5.873 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060251.D

Acq: 26 Feb 2020 15:12

Instrument :

MSVOA_N

ClientSampleId :

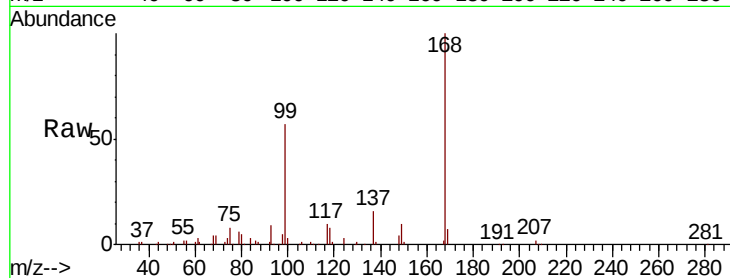
Tot Ion:117 Resp: 20186

Ion Ratio Lower Upper

117 100

119 5.6 78.2 117.4#

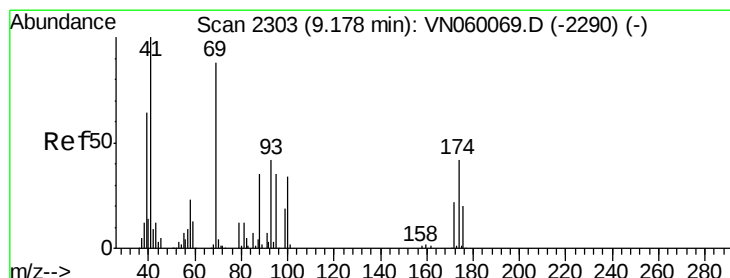
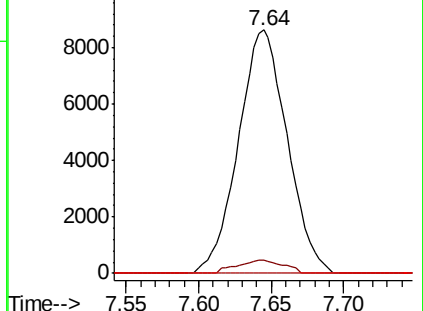
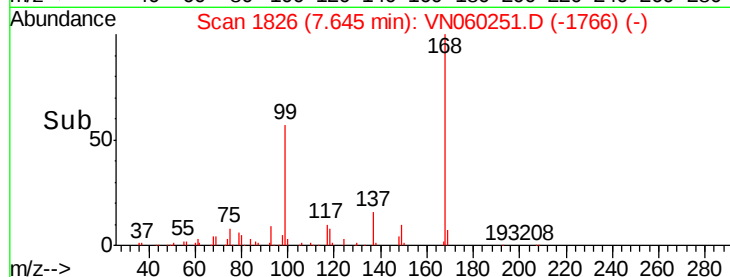
121 0.0 24.2 36.2#



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



#49

1,4-Dioxane

Concen: 5.042 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. 0.00 min

Lab File: VN060251.D

Acq: 26 Feb 2020 15:12

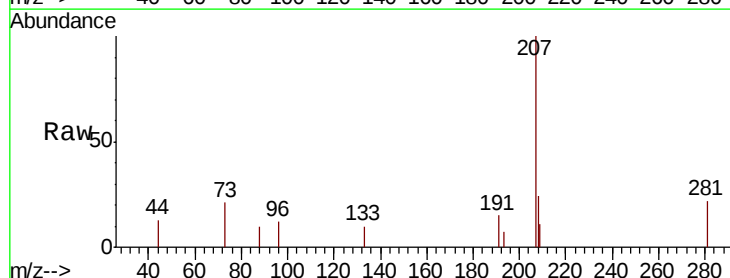
Tgt Ion: 88 Resp: 189

Ion Ratio Lower Upper

88 100

43 0.0 26.2 39.2#

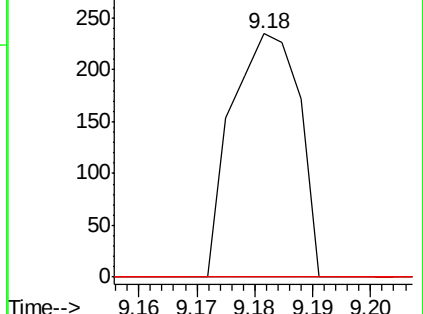
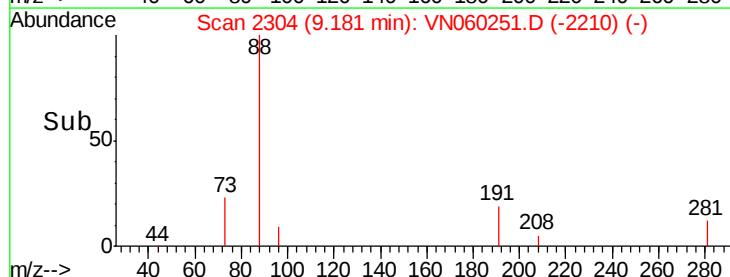
58 0.0 53.2 79.8#

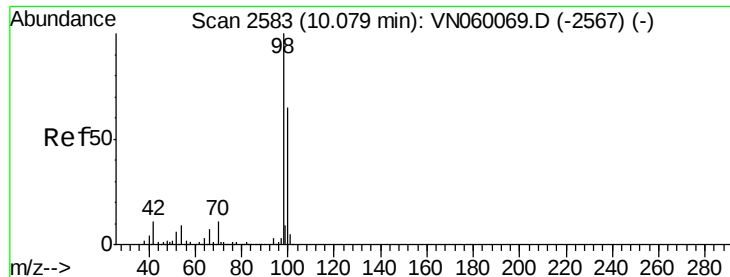


Abundance Ion 88.00 (87.70 to 88.70): V

Ion 43.00 (42.70 to 43.70): V

Ion 58.00 (57.70 to 58.70): V





#50

Toluene-d8

Concen: 50.559 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN060251.D

Acq: 26 Feb 2020 15:12

Instrument :

MSVOA_N

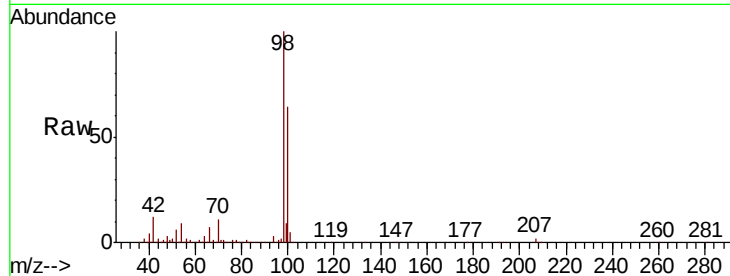
ClientSampled :

Tot Ion: 98 Resp: 418187

Ion Ratio Lower Upper

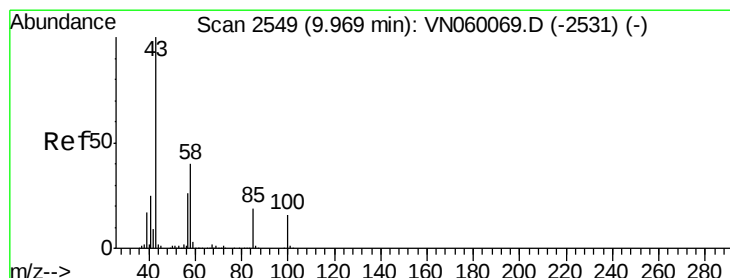
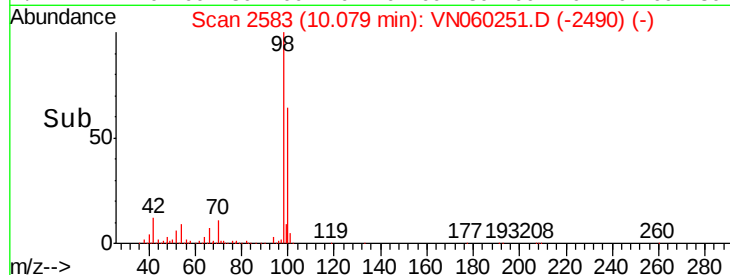
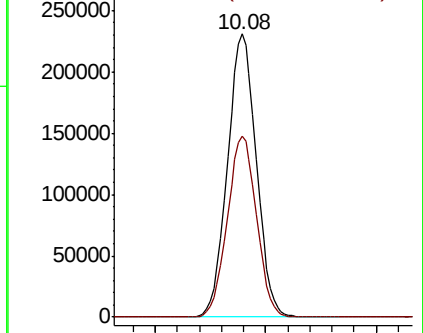
98 100

100 64.6 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 0.236 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060251.D

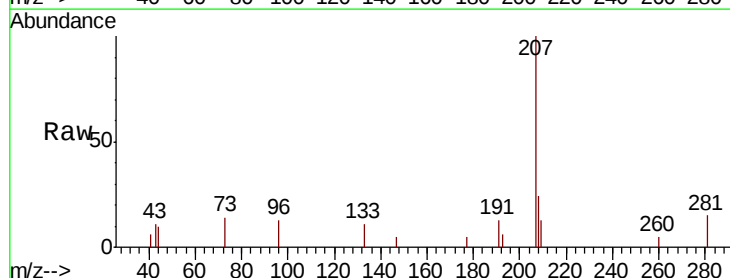
Acq: 26 Feb 2020 15:12

Tgt Ion: 43 Resp: 667

Ion Ratio Lower Upper

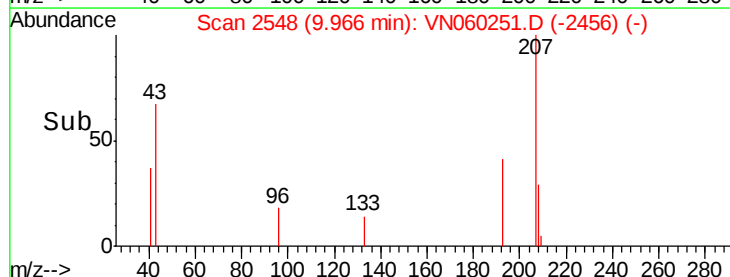
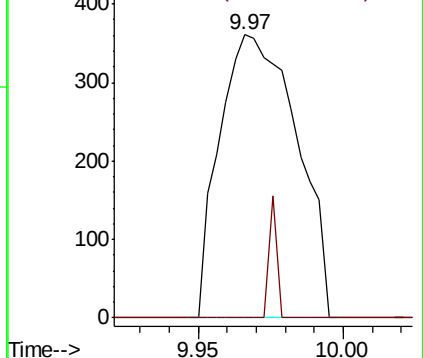
43 100

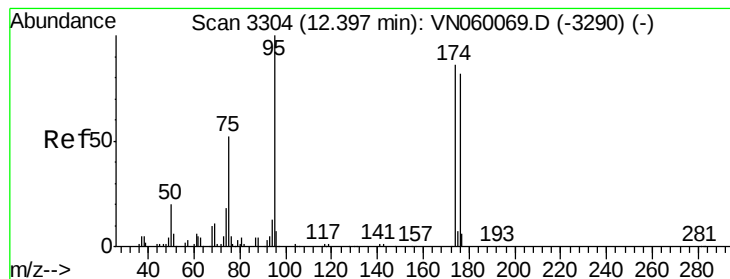
58 0.0 31.8 47.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 51.848 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060251.D

Acq: 26 Feb 2020 15:12

Instrument :

MSVOA_N

ClientSampleId :

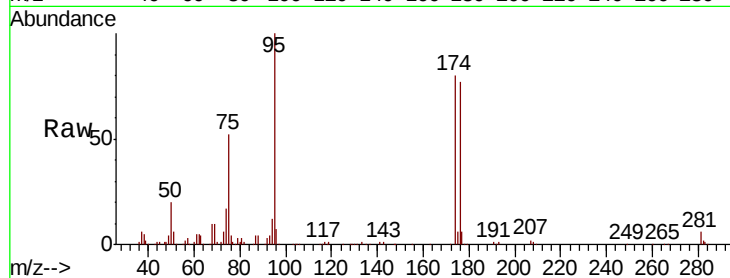
Tot Ion: 95 Resp: 157582

Ion Ratio Lower Upper

95 100

174 81.1 0.0 169.8

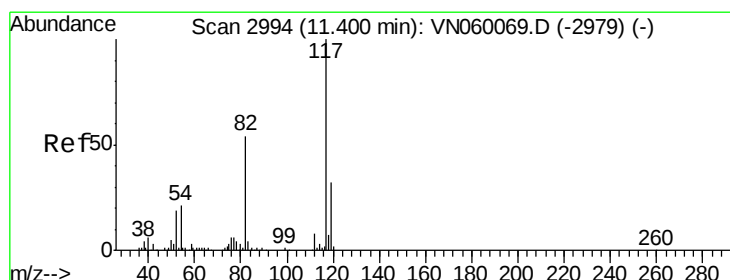
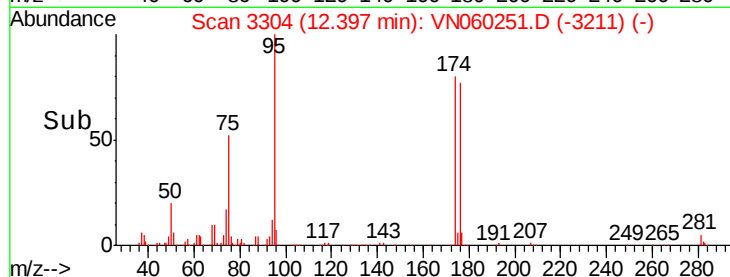
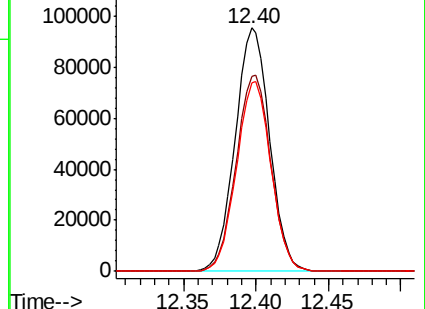
176 78.0 0.0 164.8



Abundance Ion 94.90 (94.60 to 95.60): VN060069.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060069.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060069.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060251.D

Acq: 26 Feb 2020 15:12

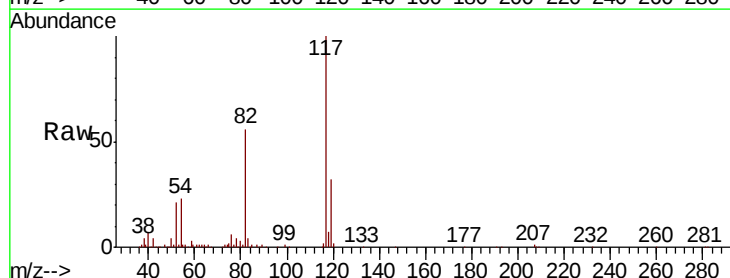
Tgt Ion: 117 Resp: 317941

Ion Ratio Lower Upper

117 100

82 56.1 43.4 65.0

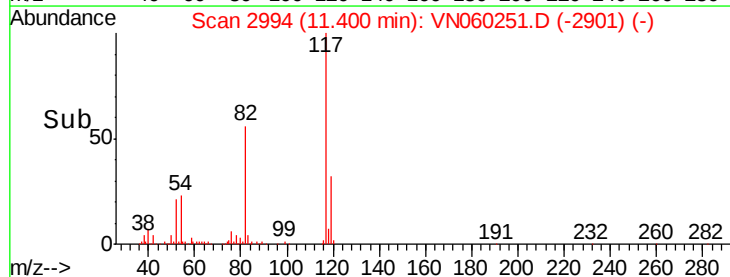
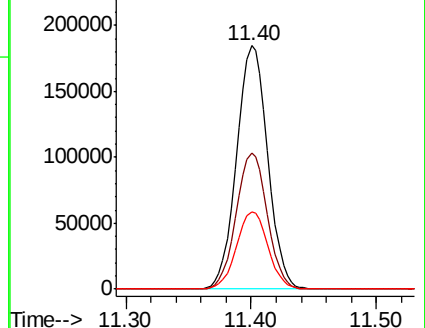
119 31.7 25.8 38.6

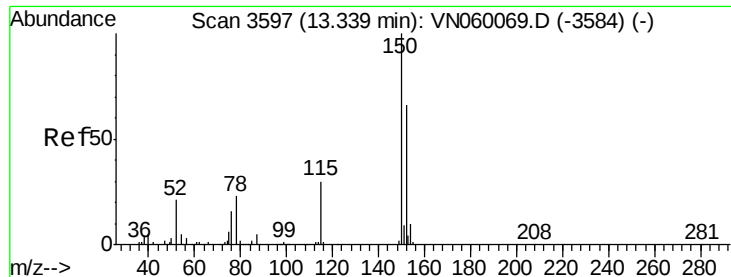


Abundance Ion 116.90 (116.60 to 117.60): VN060069.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060069.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060069.D (-2979) (-)



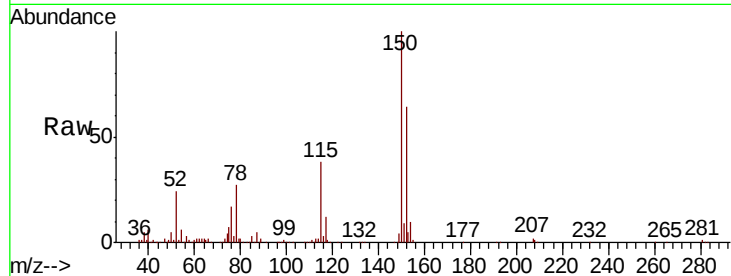


#72

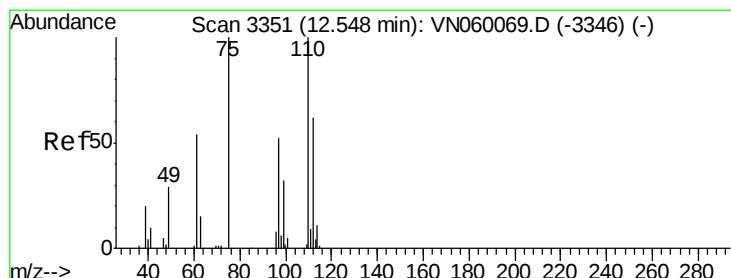
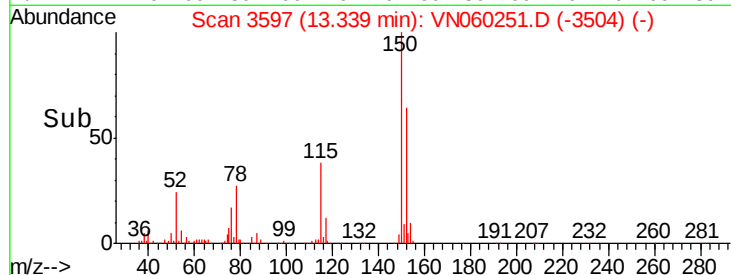
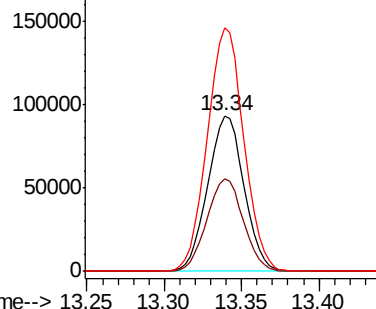
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN060251.D
Acq: 26 Feb 2020 15:12

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	59.8	28.9	86.8
150	157.5	0.0	342.4



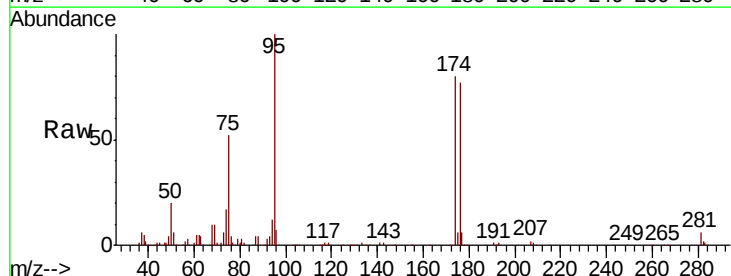
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



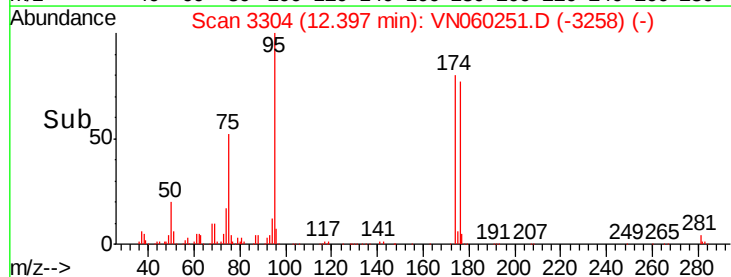
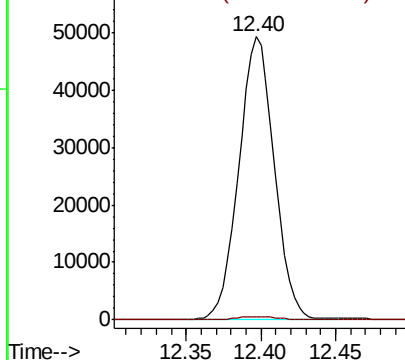
#76

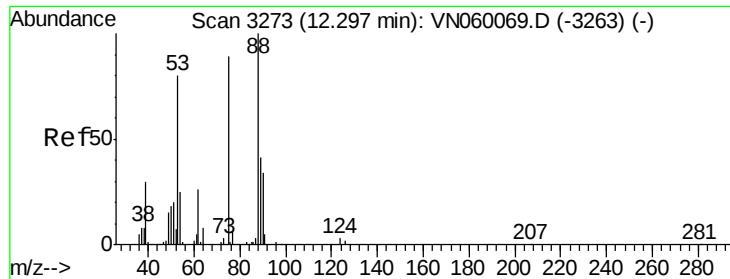
1,2,3-Trichloropropane
Concen: 27.993 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.15 min
Lab File: VN060251.D
Acq: 26 Feb 2020 15:12

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.4	0.0	0.0#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 77.00 (76.70 to 77.70): V

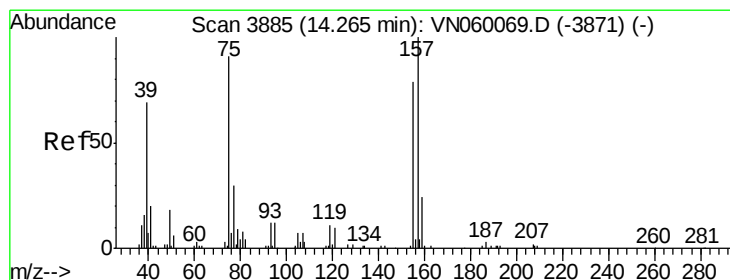
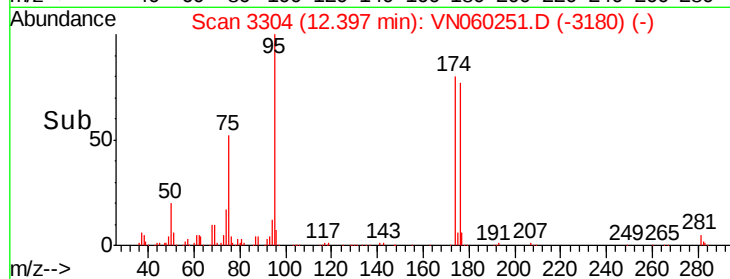
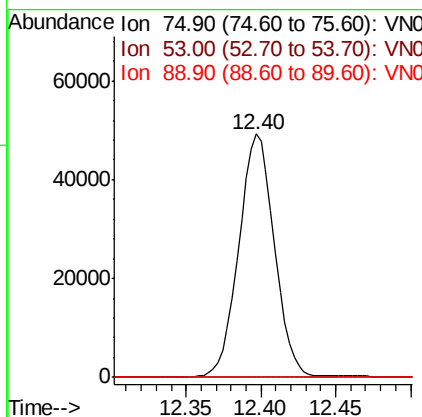
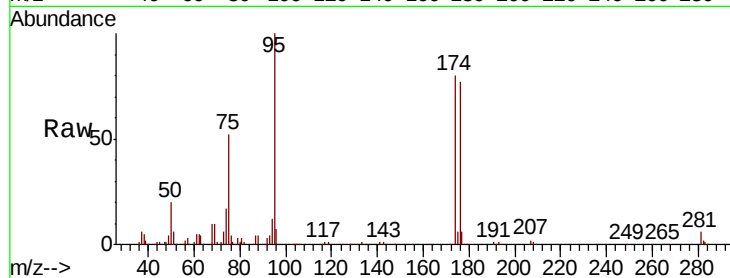




#81
trans-1,4-Dichloro-2-butene
Concen: 68.542 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN060251.D
Acq: 26 Feb 2020 15:12

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 75 Resp: 81475
Ion Ratio Lower Upper
75 100
53 0.0 73.9 110.9#
89 0.0 37.0 55.4#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.27 min Scan# 3887
Delta R.T. 0.01 min
Lab File: VN060251.D
Acq: 26 Feb 2020 15:12

Tgt Ion: 75 Resp: 71
Ion Ratio Lower Upper
75 100
155 0.0 43.0 129.0#
157 0.0 54.9 164.5#

