

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051420\
 Data File : VN061403.D
 Acq On : 14 May 2020 19:39
 Operator : JC/MD
 Sample : L2642-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 15 05:55:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N051420W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 14 16:04:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	17218	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	99579	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	86465	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	46618	30.23	ug/l	0.00
Spiked Amount 30.000	Range 50 - 169		Recovery	=	100.77%	
60) 4-Bromofluorobenzene	12.38	95	40394	27.36	ug/l	0.00
Spiked Amount 30.000	Range 56 - 143		Recovery	=	91.20%	
63) Toluene-d8	10.06	98	124896	31.20	ug/l	0.00
Spiked Amount 30.000	Range 66 - 137		Recovery	=	104.00%	

Target Compounds

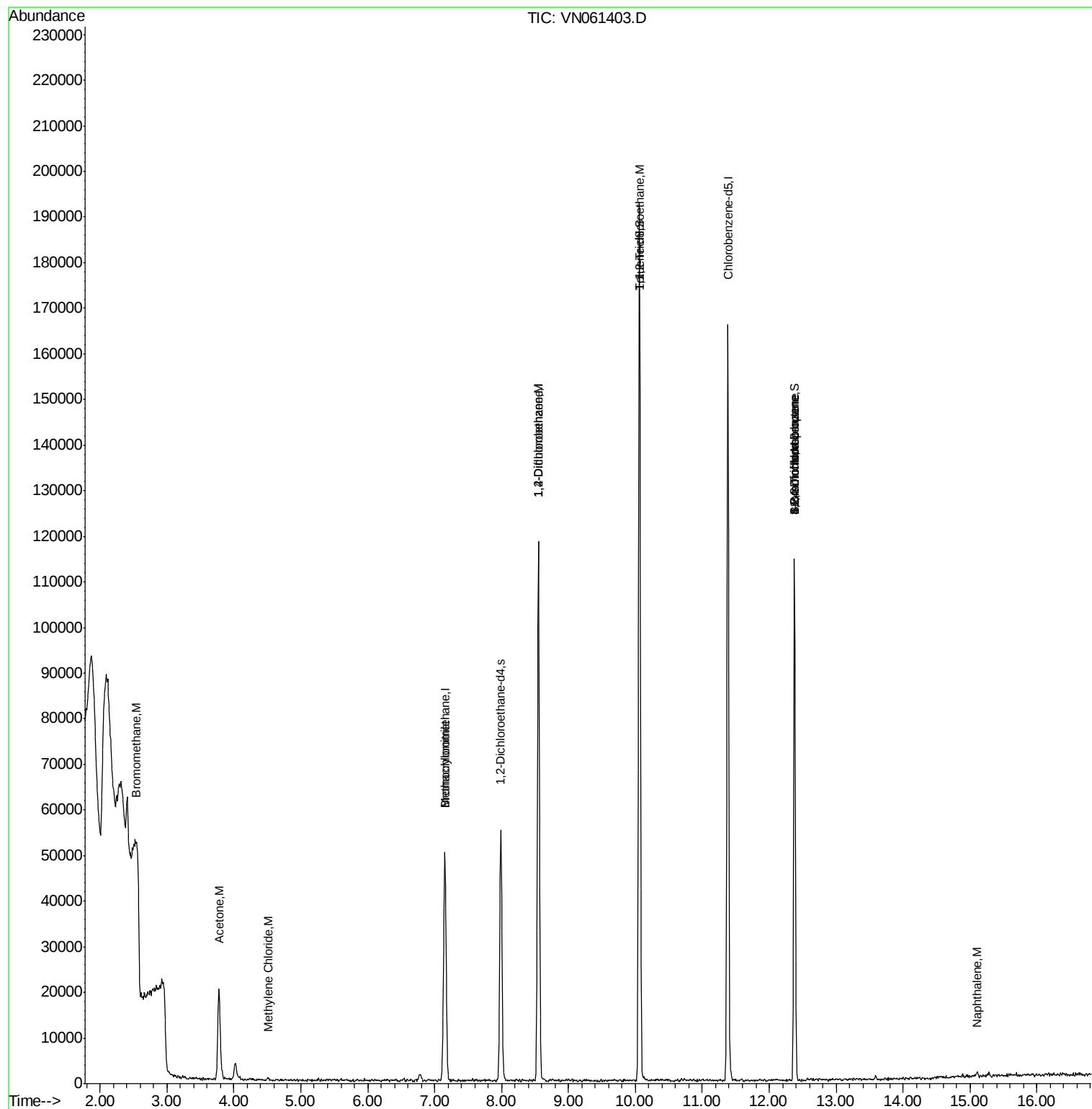
					Ovalue	
5) Bromomethane	2.55	94	407	0.417	ug/l #	18
15) Acetone	3.78	58	9549	75.422	ug/l	86
18) Methylene Chloride	4.51	84	290	0.260	ug/l #	58
35) Methacrylonitrile	7.15	41	188	0.254	ug/l #	33
36) 1,2-Dichloroethane	8.55	62	3889	2.049	ug/l #	77
50) 1,1,2-Trichloroethane	10.07	97	4537	3.909	ug/l #	1
56) Bromoform	12.37	173	218	0.273	ug/l #	1
72) 1,2,3-Trichloropropane	12.38	75	23373	16.145	ug/l	1
77) t-1,4-Dichloro-2-butene	12.38	75	23373	38.792	ug/l #	10
91) Naphthalene	15.11	128	1148	0.316	ug/l #	69

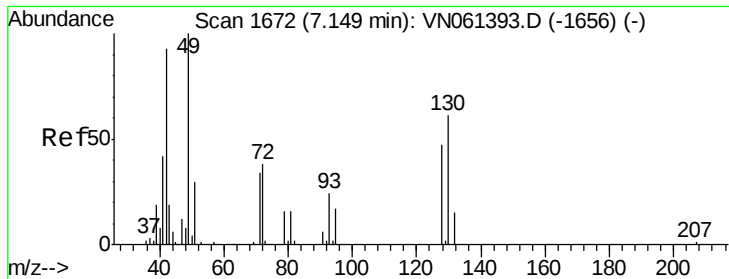
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN051420\
Data File : VN061403.D
Acq On : 14 May 2020 19:39
Operator : JC/MD
Sample : L2642-02
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: May 15 05:55:33 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N051420W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu May 14 16:04:10 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.15 min Scan# 1673

Delta R.T. 0.00 min

Lab File: VN061403.D

Acq: 14 May 2020 19:39

Instrument :
MSVOA_N
ClientSampleId :

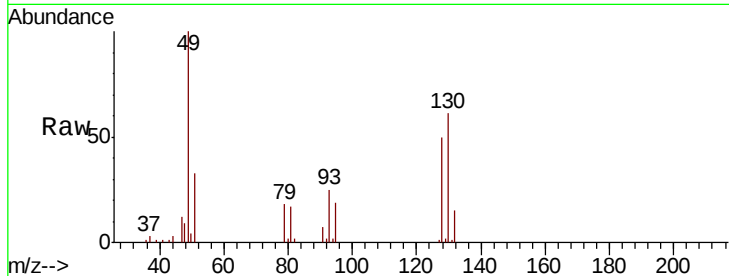
Tot Ion:128 Resp: 17218

Ion Ratio Lower Upper

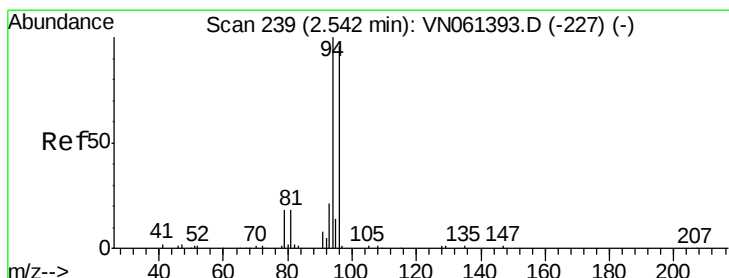
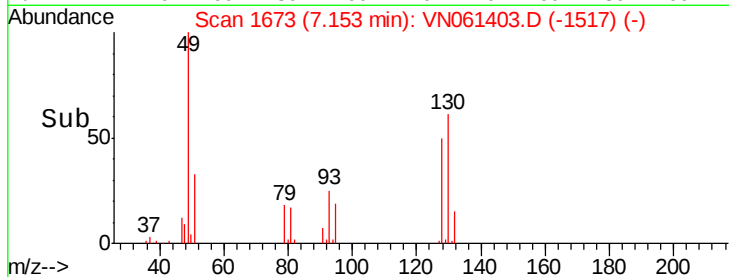
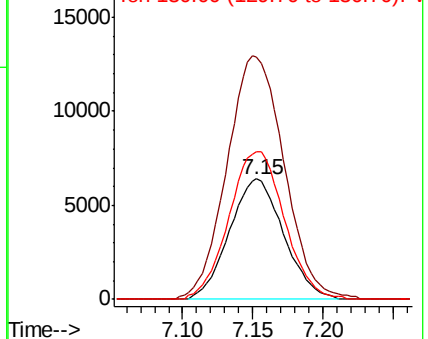
128 100

49 212.9 0.0 453.5

130 125.3 0.0 314.2



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V



#5

Bromomethane

Concen: 0.417 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.01 min

Lab File: VN061403.D

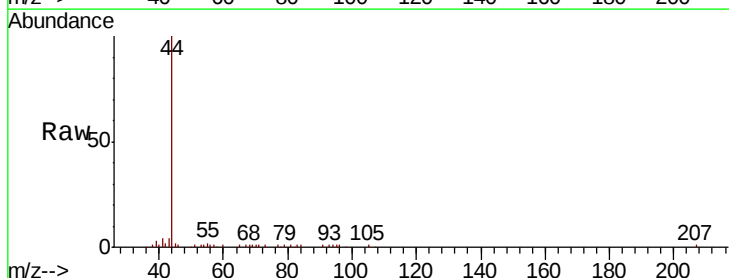
Acq: 14 May 2020 19:39

Tgt Ion: 94 Resp: 407

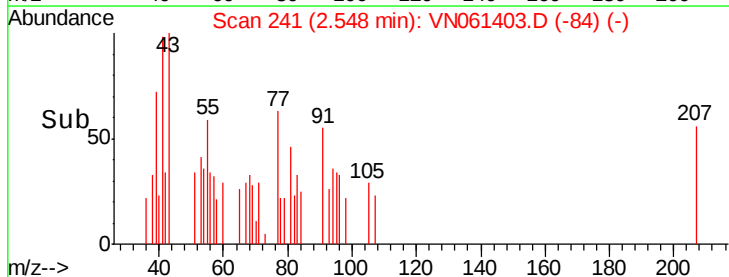
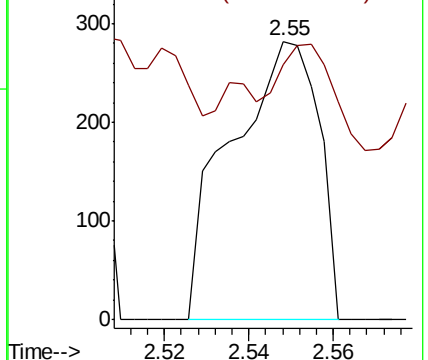
Ion Ratio Lower Upper

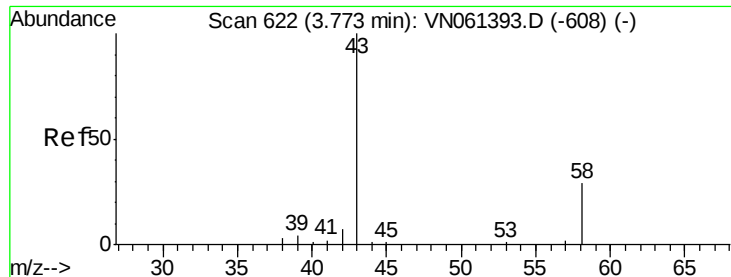
94 100

96 13.5 73.7 110.5#



Abundance Ion 94.00 (93.70 to 94.70): VN
Ion 96.00 (95.70 to 96.70): VN





#15

Acetone

Concen: 75.422 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN061403.D

Acq: 14 May 2020 19:39

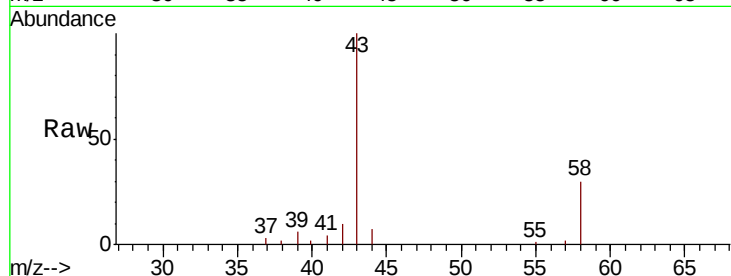
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 58 Resp: 9549

Ion Ratio Lower Upper

58 100

43 321.8 281.7 422.5



Abundance Ion 58.00 (57.70 to 58.70): VN061403.D (-608) (-)

Ion 43.00 (42.70 to 43.70): VN061403.D (-608) (-)

15000

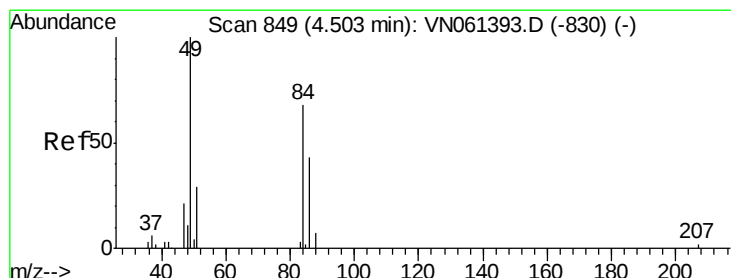
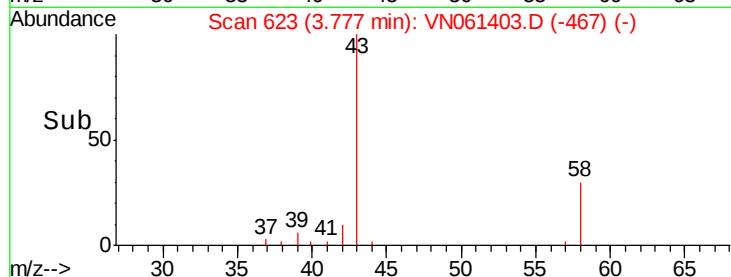
10000

5000

0

3.70 3.75 3.80 3.85

Time-->



#18

Methylene Chloride

Concen: 0.260 ug/l

RT: 4.51 min Scan# 850

Delta R.T. 0.00 min

Lab File: VN061403.D

Acq: 14 May 2020 19:39

Tgt Ion: 84 Resp: 290

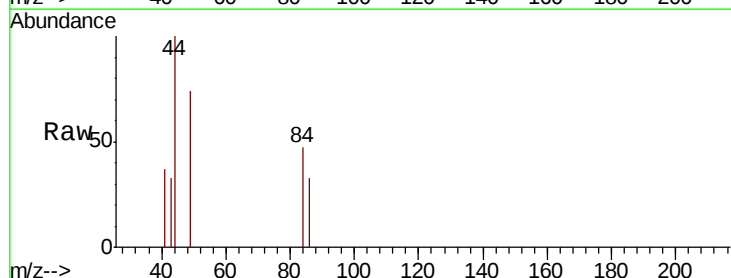
Ion Ratio Lower Upper

84 100

49 73.1 106.6 160.0#

51 0.0 32.4 48.6#

86 69.9 50.6 76.0



Abundance Ion 84.00 (83.70 to 84.70): VN061403.D (-830) (-)

Ion 49.00 (48.70 to 49.70): VN061403.D (-830) (-)

Ion 51.00 (50.70 to 51.70): VN061403.D (-830) (-)

Ion 86.00 (85.70 to 86.70): VN061403.D (-830) (-)

500

400

300

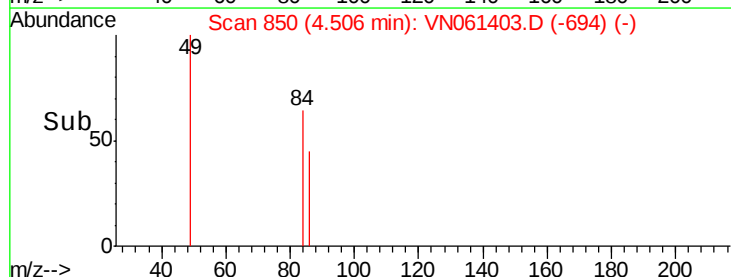
200

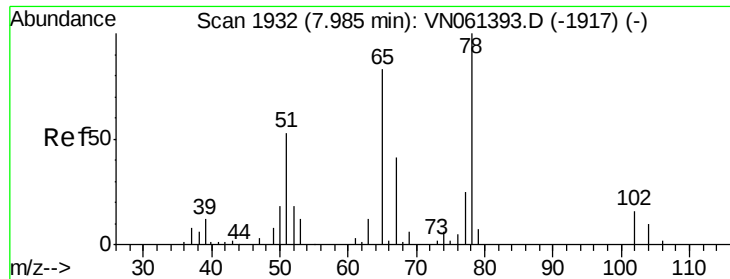
100

0

4.48 4.49 4.50 4.51 4.52

Time-->

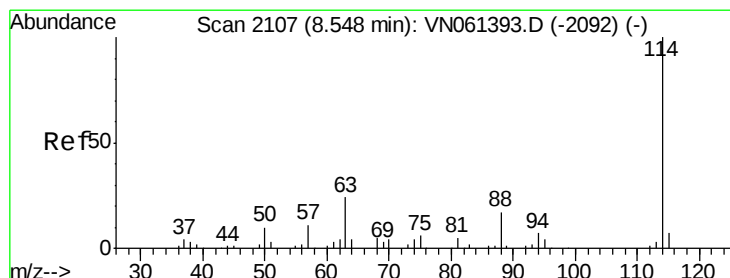
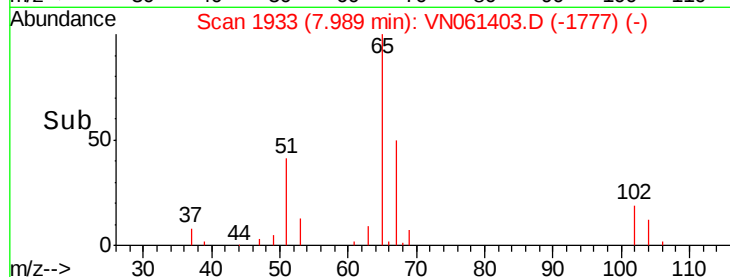
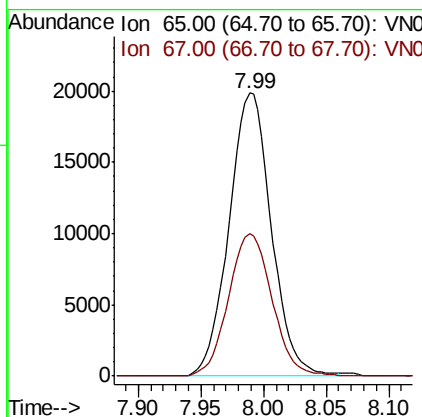
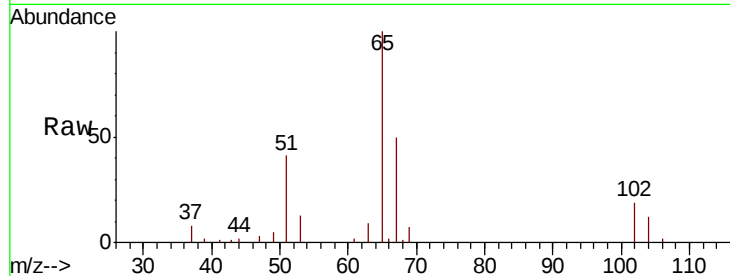




#27
 1,2-Dichloroethane-d4
 Concen: 30.234 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN061403.D
 Acq: 14 May 2020 19:39

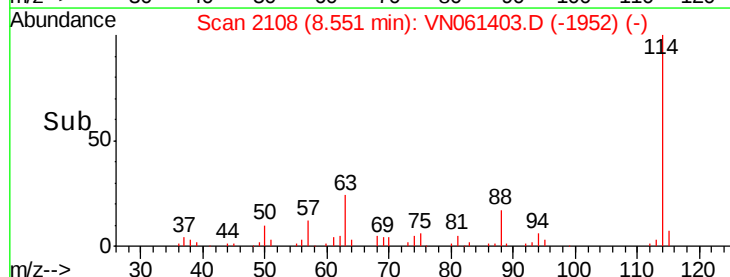
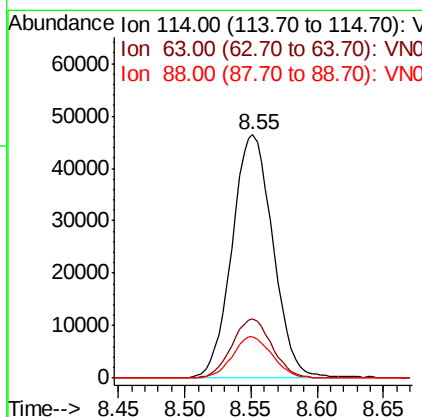
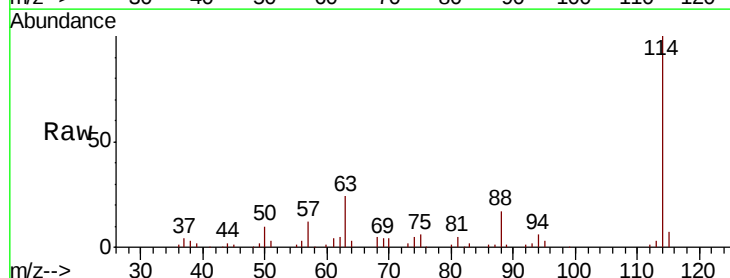
Instrument :
 MSVOA_N
 ClientSampled :

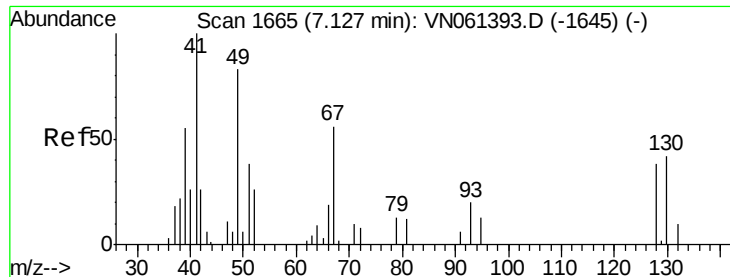
Tot Ion: 65 Resp: 46618
 Ion Ratio Lower Upper
 65 100
 67 51.6 41.5 62.3



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061403.D
 Acq: 14 May 2020 19:39

Tgt Ion: 114 Resp: 99579
 Ion Ratio Lower Upper
 114 100
 63 23.8 18.1 27.1
 88 16.5 13.0 19.4

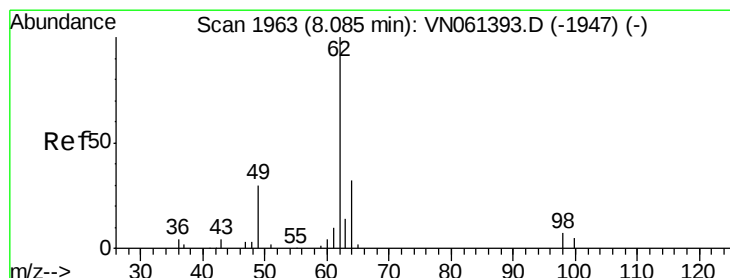
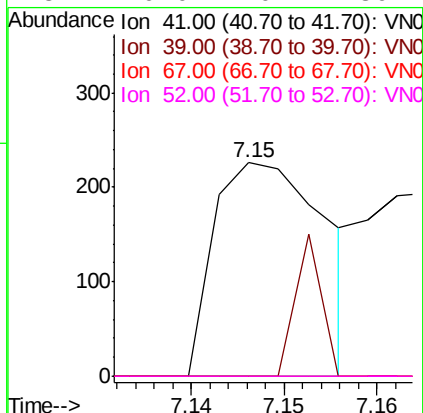
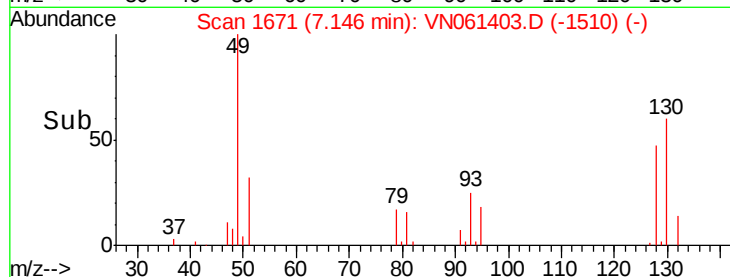
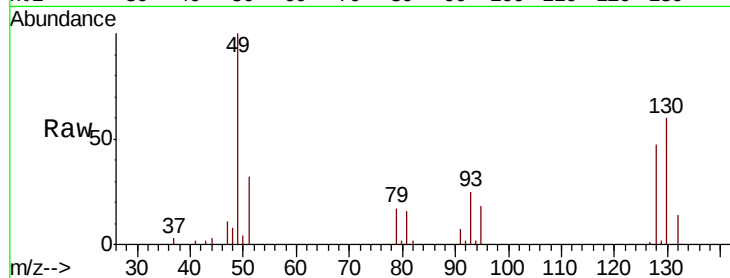




#35
Methacrylonitrile
Concen: 0.254 ug/l
RT: 7.15 min Scan# 1671
Delta R.T. 0.02 min
Lab File: VN061403.D
Acq: 14 May 2020 19:39

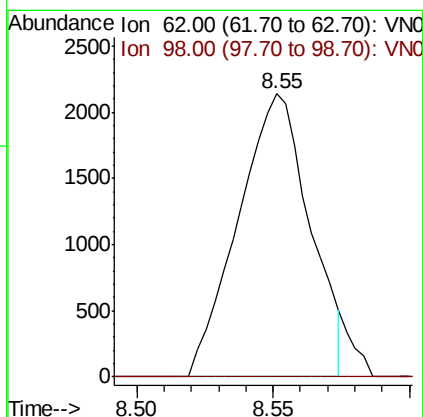
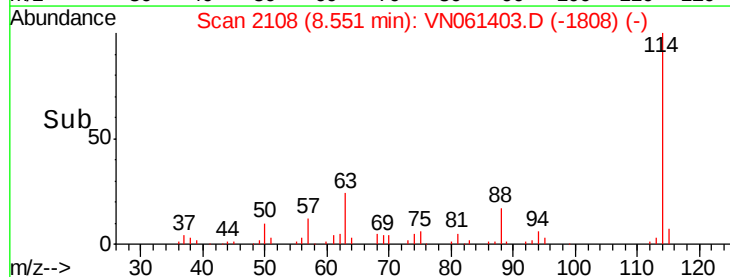
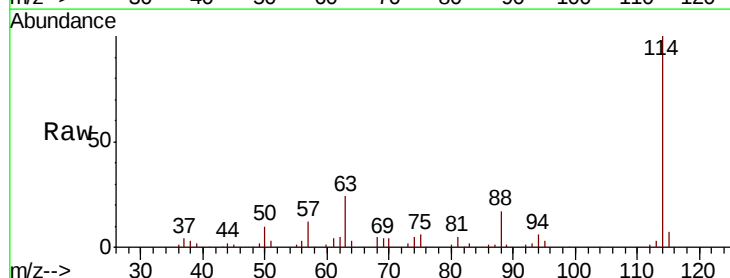
Instrument :
MSVOA_N
ClientSampleId :

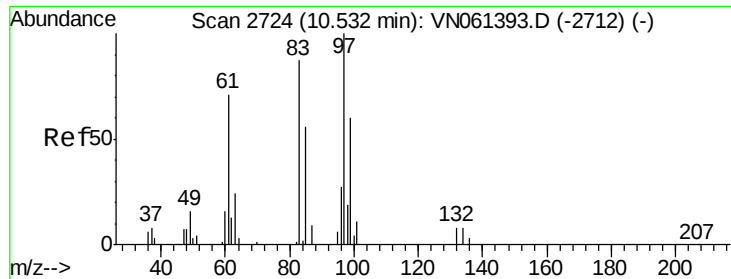
Tot Ion: 41 Resp: 188
Ion Ratio Lower Upper
41 100
39 0.0 25.8 77.4#
67 0.0 23.0 69.0#
52 0.0 10.1 30.1#



#36
1,2-Dichloroethane
Concen: 2.049 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. 0.47 min
Lab File: VN061403.D
Acq: 14 May 2020 19:39

Tgt Ion: 62 Resp: 3889
Ion Ratio Lower Upper
62 100
98 0.0 6.4 9.6#

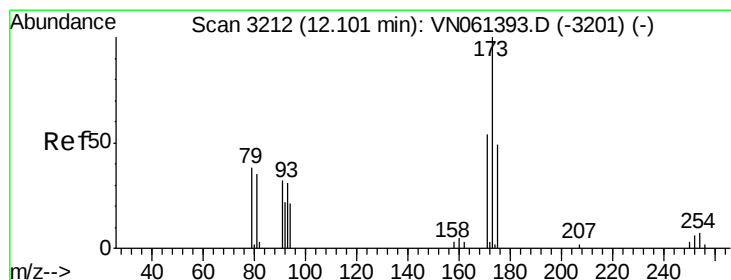
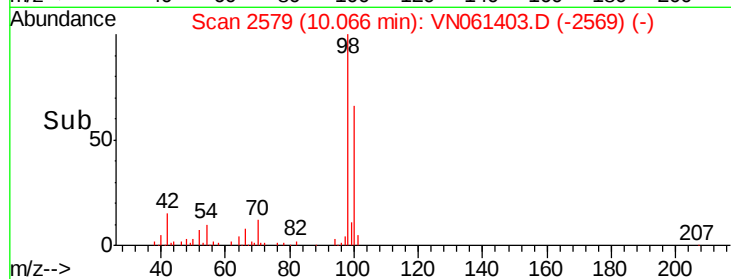
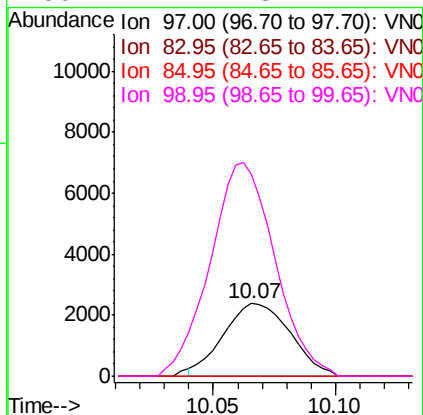
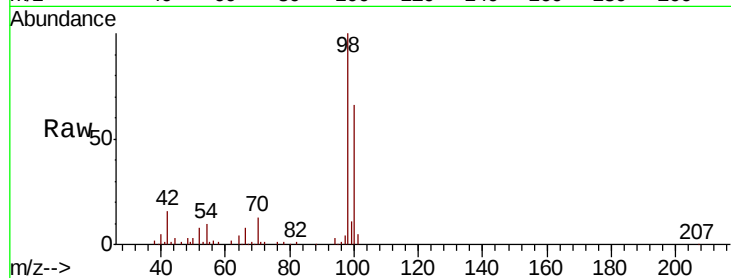




#50
 1,1,2-Trichloroethane
 Concen: 3.909 ug/l
 RT: 10.07 min Scan# 2579
 Delta R.T. -0.47 min
 Lab File: VN061403.D
 Acq: 14 May 2020 19:39

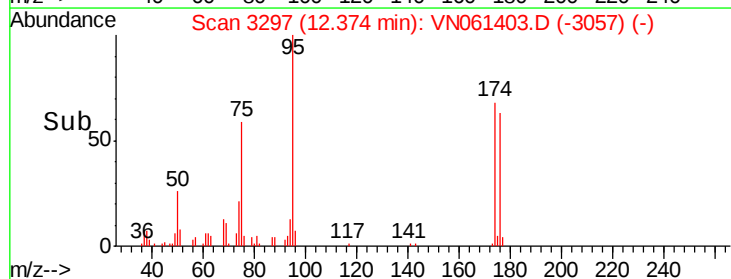
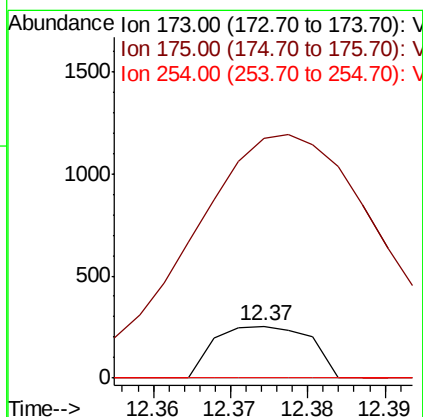
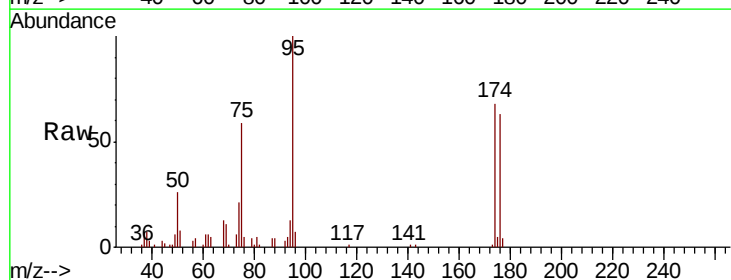
Instrument :
 MSVOA_N
 ClientSampled :

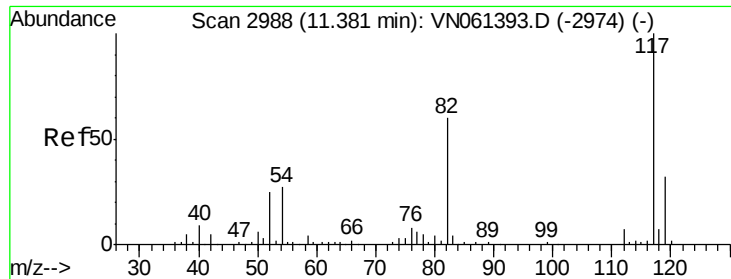
Tot Ion	97	Resp	4537
Ion Ratio	Lower	Upper	
97	100		
83	0.0	70.7	106.1#
85	0.0	45.1	67.7#
99	277.7	48.2	72.4#



#56
 Bromoform
 Concen: 0.273 ug/l
 RT: 12.37 min Scan# 3297
 Delta R.T. 0.27 min
 Lab File: VN061403.D
 Acq: 14 May 2020 19:39

Tgt Ion	173	Resp	218
Ion Ratio	Lower	Upper	
173	100		
175	931.2	38.7	58.1#
254	0.0	7.4	11.2#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN061403.D

Acq: 14 May 2020 19:39

Instrument :

MSVOA_N

ClientSampled :

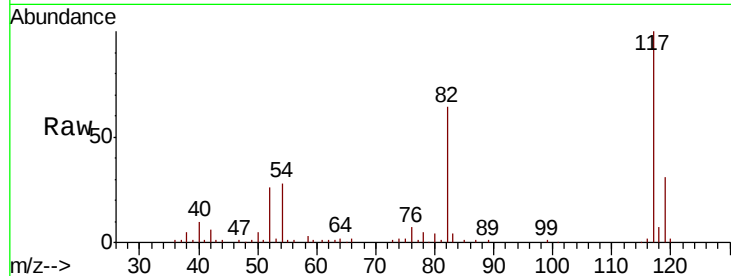
Tot Ion:117 Resp: 86465

Ion Ratio Lower Upper

117 100

82 62.3 46.9 70.3

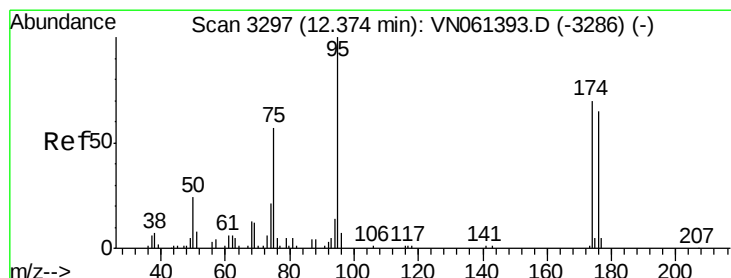
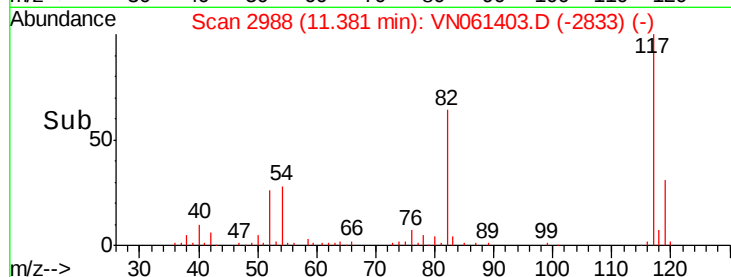
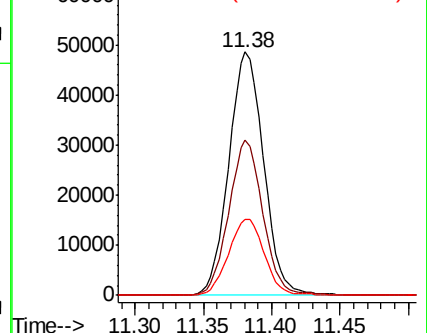
119 32.0 25.8 38.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VN

Ion 119.00 (118.70 to 119.70): V



#60

4-Bromofluorobenzene

Concen: 27.364 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061403.D

Acq: 14 May 2020 19:39

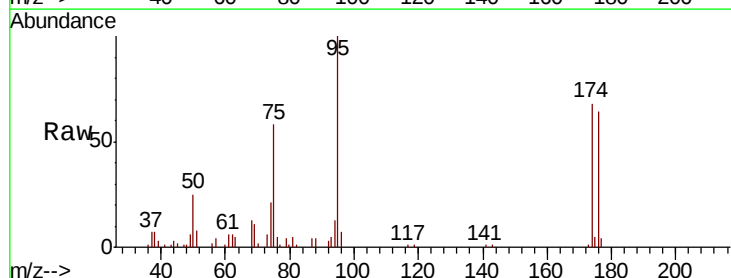
Tgt Ion: 95 Resp: 40394

Ion Ratio Lower Upper

95 100

174 66.8 59.9 89.9

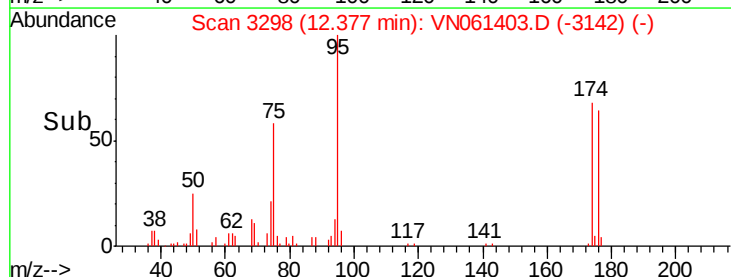
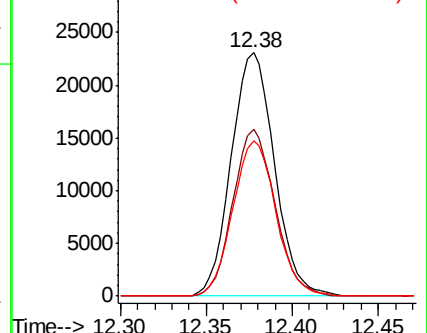
176 63.5 58.3 87.5

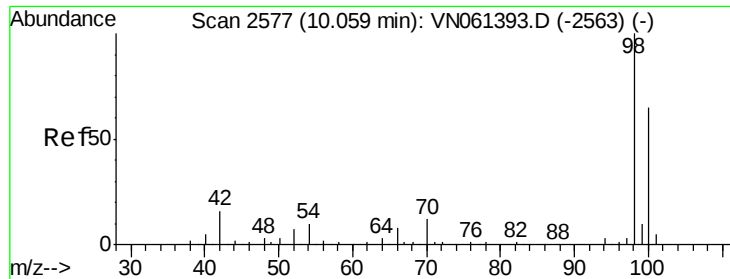


Abundance Ion 95.00 (94.70 to 95.70): VN

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#63

Toluene-d8

Concen: 31.197 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061403.D

Acq: 14 May 2020 19:39

Instrument :

MSVOA_N

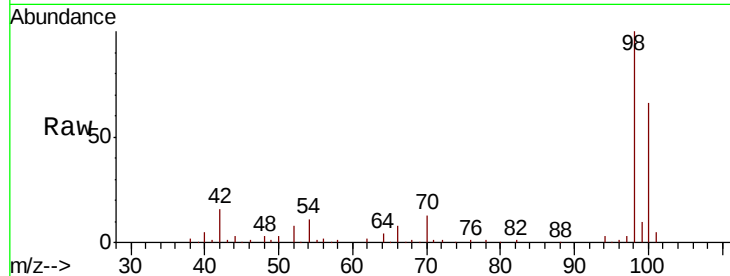
ClientSampleId :

Tot Ion: 98 Resp: 124896

Ion Ratio Lower Upper

98 100

100 66.0 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VN061393.D (-2563) (-)

Ion 100.00 (99.70 to 100.70): VN061393.D (-2563) (-)

10.06

60000

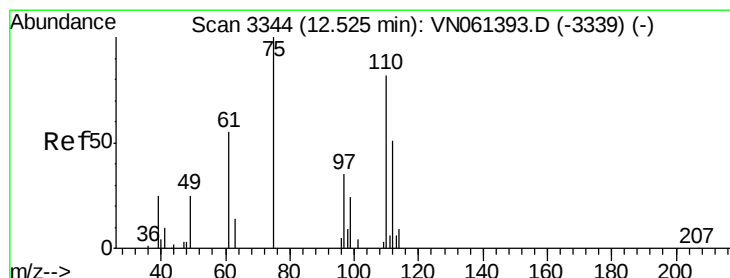
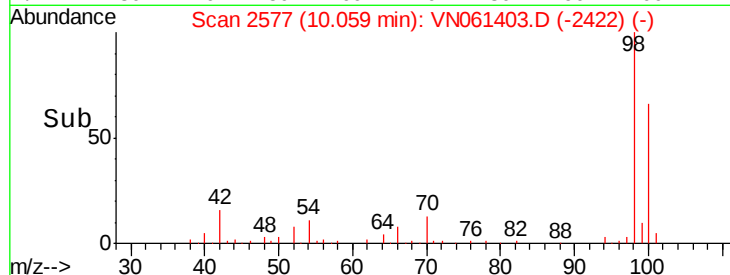
40000

20000

0

Time-->

10.00 10.10



#72

1,2,3-Trichloropropane

Concen: 16.145 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061403.D

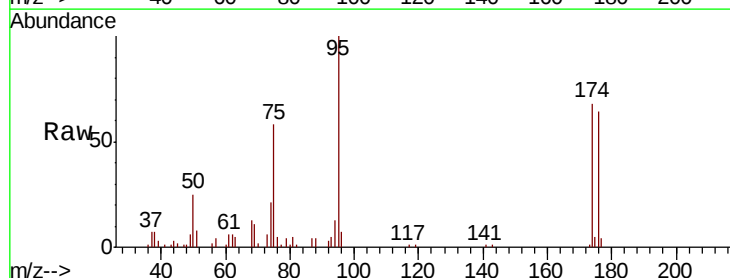
Acq: 14 May 2020 19:39

Tgt Ion: 75 Resp: 23373

Ion Ratio Lower Upper

75 100

77 0.1 0.0 359.4



Abundance Ion 75.00 (74.70 to 75.70): VN061393.D (-3339) (-)

Ion 77.00 (76.70 to 77.70): VN061393.D (-3339) (-)

12.38

15000

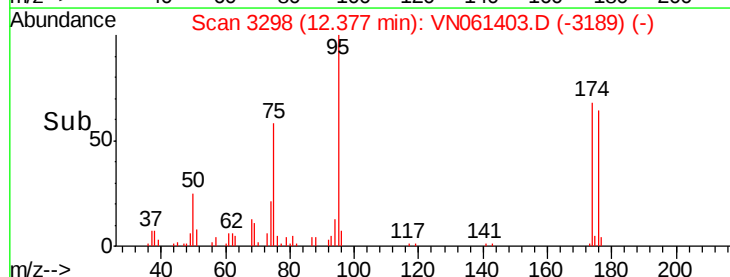
10000

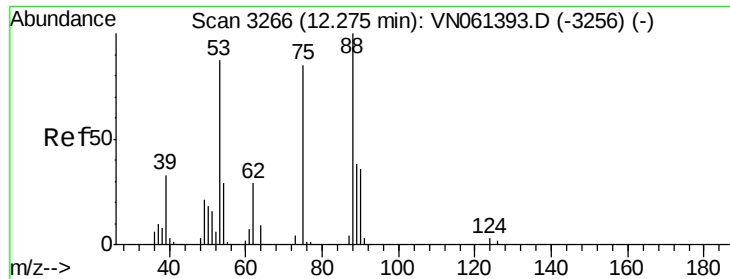
5000

0

Time-->

12.35 12.40 12.45

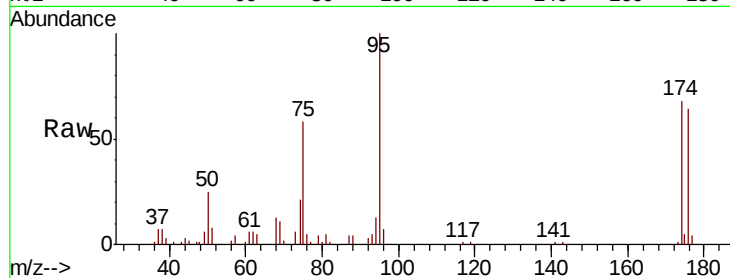




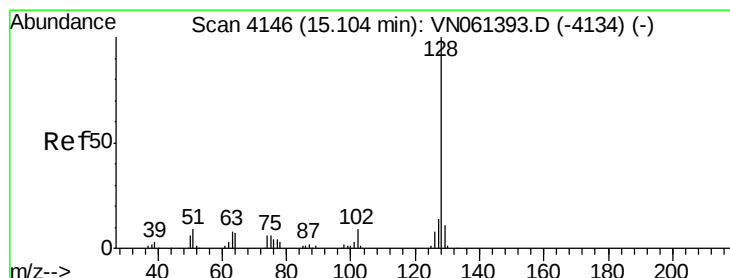
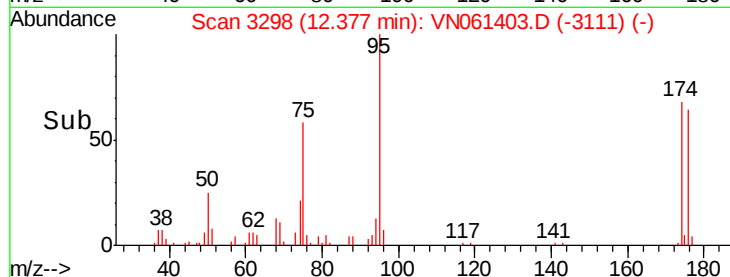
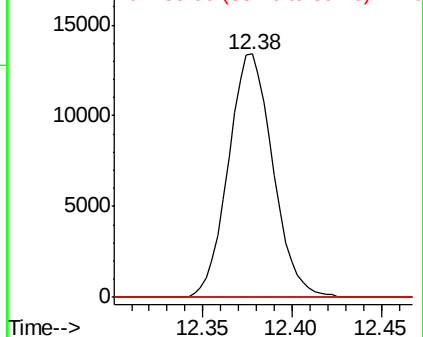
#77
t-1,4-Dichloro-2-butene
Concen: 38.792 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.10 min
Lab File: VN061403.D
Acq: 14 May 2020 19:39

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 75 Resp: 23373
Ion Ratio Lower Upper
75 100
53 0.0 50.0 150.0#
89 0.0 20.7 62.1#

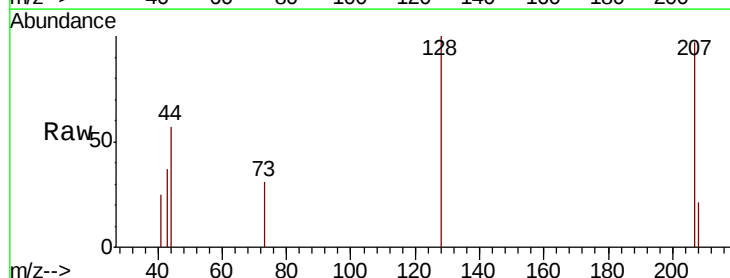


Abundance Ion 75.00 (74.70 to 75.70): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 89.00 (88.70 to 89.70): VN0



#91
Naphthalene
Concen: 0.316 ug/l
RT: 15.11 min Scan# 4147
Delta R.T. 0.00 min
Lab File: VN061403.D
Acq: 14 May 2020 19:39

Tgt Ion: 128 Resp: 1148
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.2#
129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

