

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100920\
 Data File : VN064042.D
 Acq On : 9 Oct 2020 16:50
 Operator : JC/MD
 Sample : L4327-03 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-3

Quant Time: Oct 10 01:30:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N100620W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 06 16:42:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	43723	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	211931	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	194754	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	119642	30.47	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.57%
60) 4-Bromofluorobenzene	12.38	95	76165	22.87	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	76.23%
63) Toluene-d8	10.06	98	267981	30.36	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.20%

Target Compounds

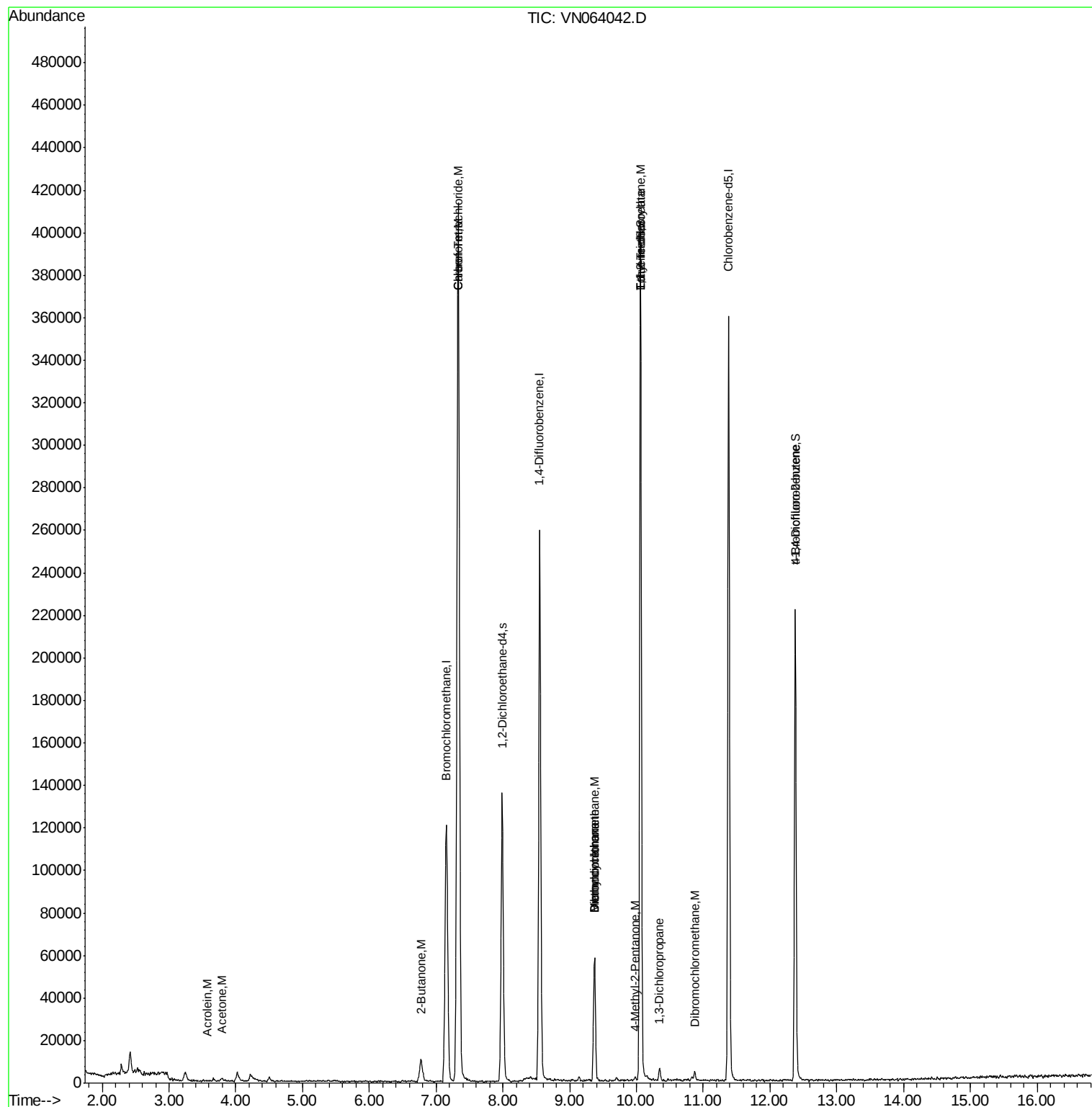
					Ovalue
13) Acrolein	3.57	56	142	0.505 ug/l #	66
15) Acetone	3.78	58	406	1.181 ug/l #	1
25) Chloroform	7.33	83	431136	77.372 ug/l	99
30) 2-Butanone	6.78	43	503	0.276 ug/l #	55
33) Carbon Tetrachloride	7.33	117	2860	0.689 ug/l	94
38) Methylcyclohexane	9.37	83	39296	12.540 ug/l #	16
40) Dibromomethane	9.37	93	1191	0.595 ug/l #	2
41) Bromodichloromethane	9.37	83	39296	9.442 ug/l	99
50) 1,1,2-Trichloroethane	10.06	97	9737	3.641 ug/l #	1
51) Ethyl methacrylate	10.06	69	940	0.242 ug/l	79
52) 1,3-Dichloropropane	10.35	76	1018	0.222 ug/l #	43
53) Dibromochloromethane	10.87	129	2424	0.788 ug/l	84
58) 4-Methyl-2-Pentanone	9.98	43	1630	0.431 ug/l #	43
77) t-1,4-Dichloro-2-butene	12.38	75	42789	32.277 ug/l #	12

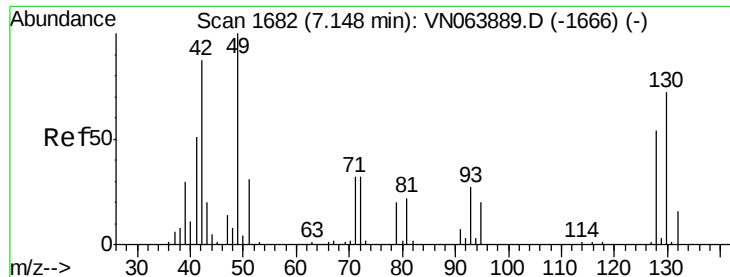
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100920\
Data File : VN064042.D
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MSVOA_N
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14B-3

Quant Time: Oct 10 01:30:09 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N100620W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Oct 06 16:42:38 2020
Response via : Initial Calibration

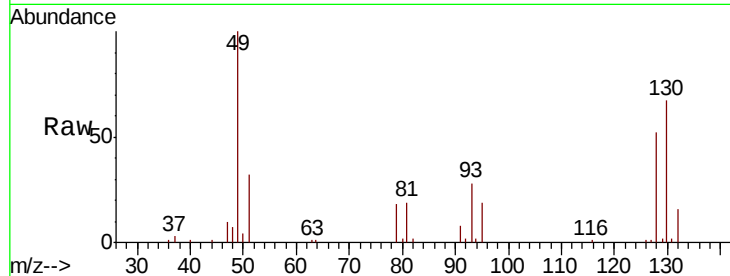




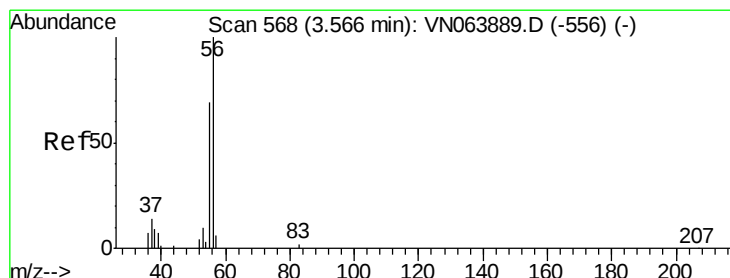
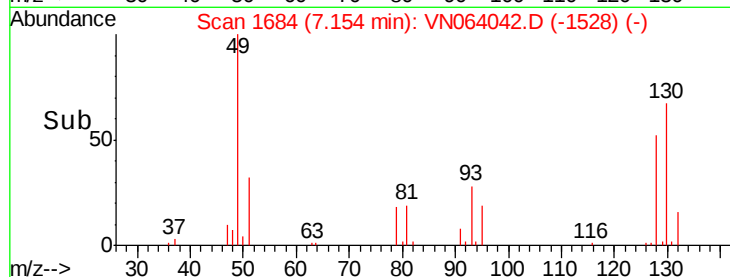
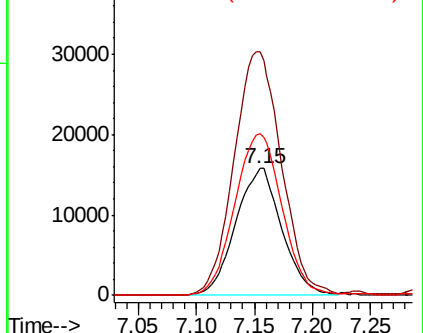
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.15 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VN064042.D
Acq: 9 Oct 2020 16:50

Instrument :
MSVOA_N
ClientSampled :
14B-3

Tot Ion:128 Resp: 43723
Ion Ratio Lower Upper
128 100
49 196.5 0.0 437.5
130 130.5 0.0 327.3

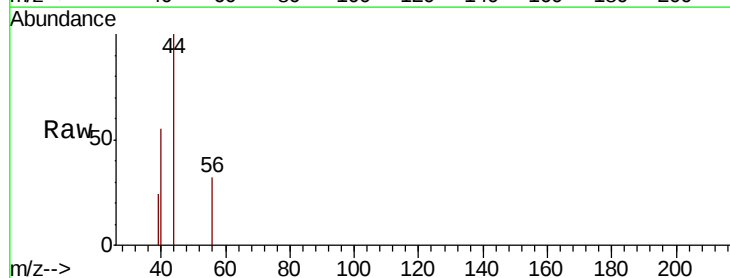


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V

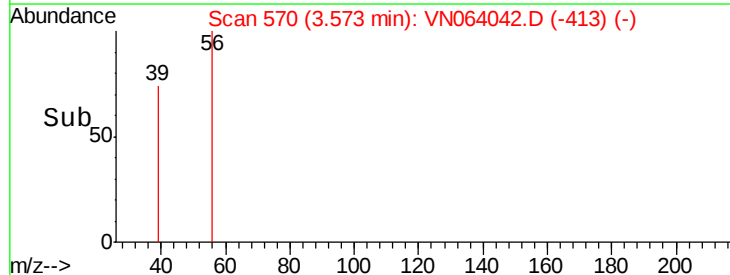
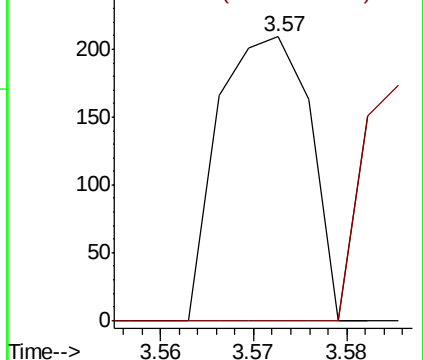


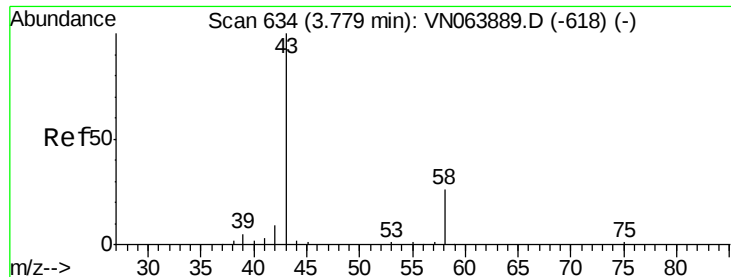
#13
Acrolein
Concen: 0.505 ug/l
RT: 3.57 min Scan# 570
Delta R.T. 0.01 min
Lab File: VN064042.D
Acq: 9 Oct 2020 16:50

Tgt Ion: 56 Resp: 142
Ion Ratio Lower Upper
56 100
55 44.4 58.7 88.1#



Abundance Ion 56.00 (55.70 to 56.70): VN
Ion 55.00 (54.70 to 55.70): VN





#15

Acetone

Concen: 1.181 ug/l

RT: 3.78 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN064042.D

Acq: 9 Oct 2020 16:50

Instrument :

MSVOA_N

ClientSampled :

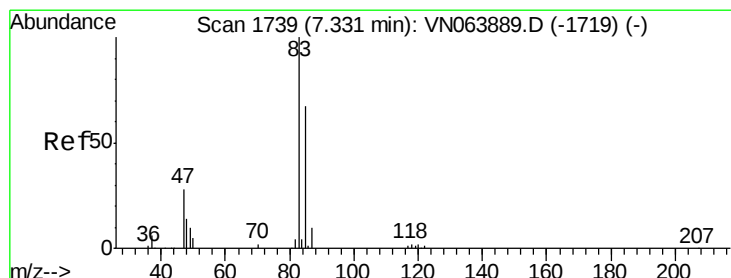
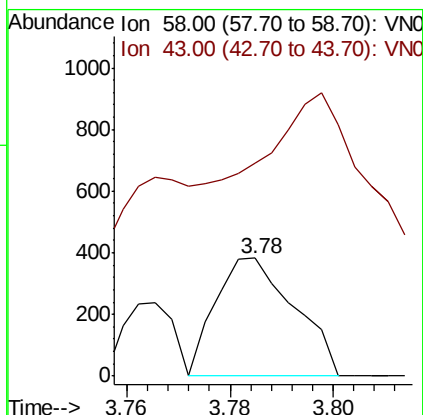
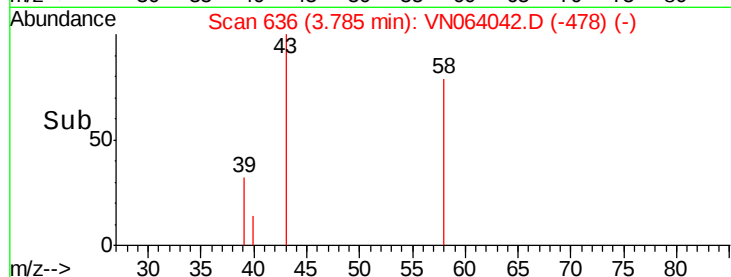
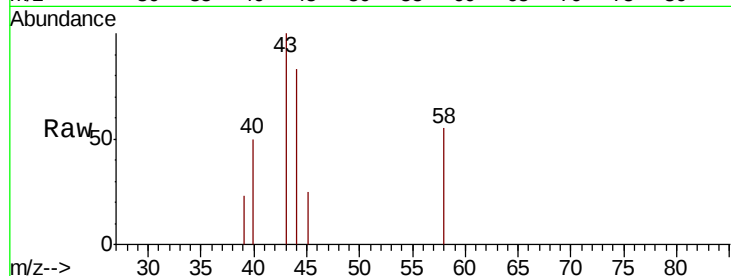
14B-3

Tot Ion: 58 Resp: 406

Ion Ratio Lower Upper

58 100

43 20.2 233.2 349.8#



#25

Chloroform

Concen: 77.372 ug/l

RT: 7.33 min Scan# 1739

Delta R.T. 0.00 min

Lab File: VN064042.D

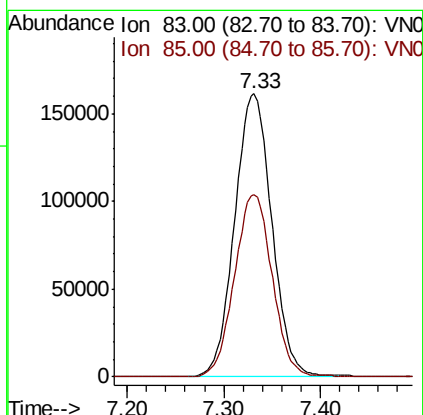
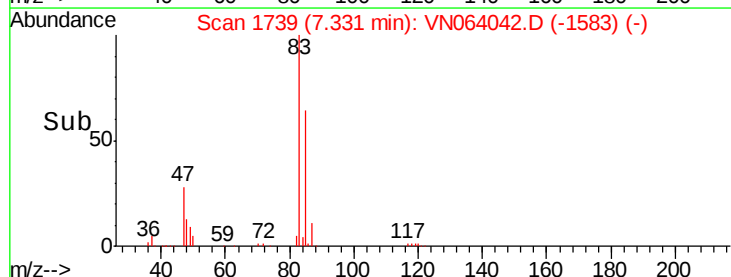
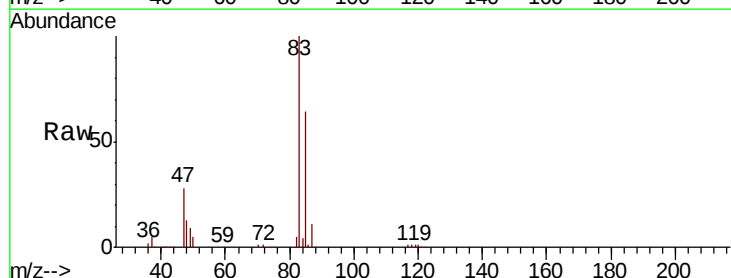
Acq: 9 Oct 2020 16:50

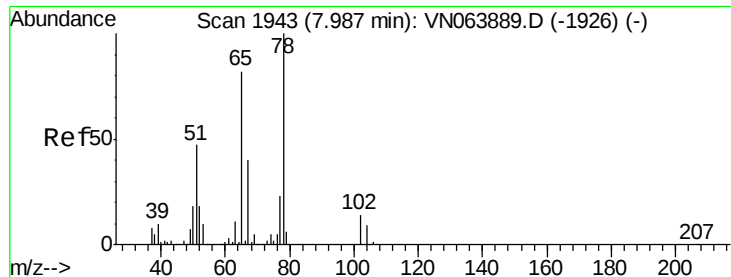
Tgt Ion: 83 Resp: 431136

Ion Ratio Lower Upper

83 100

85 64.3 51.0 76.4





#27

1,2-Dichloroethane-d4

Concen: 30.468 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN064042.D

Acq: 9 Oct 2020 16:50

Instrument :

MSVOA_N

ClientSampleId :

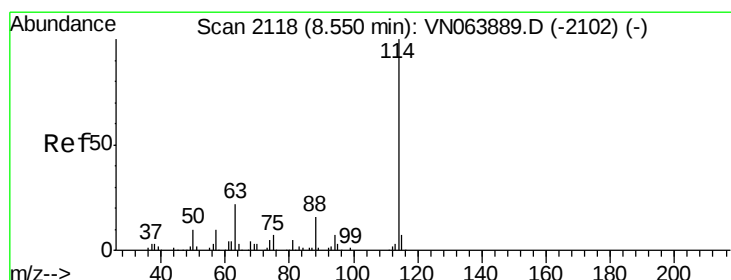
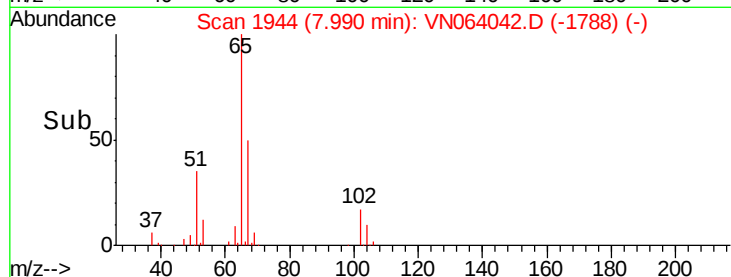
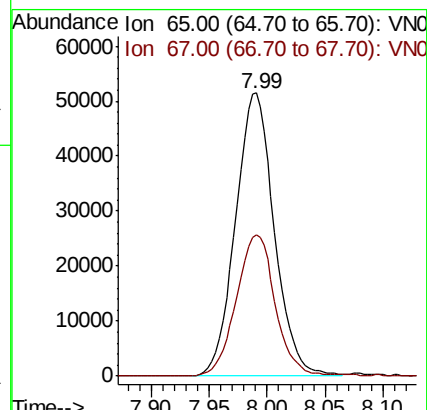
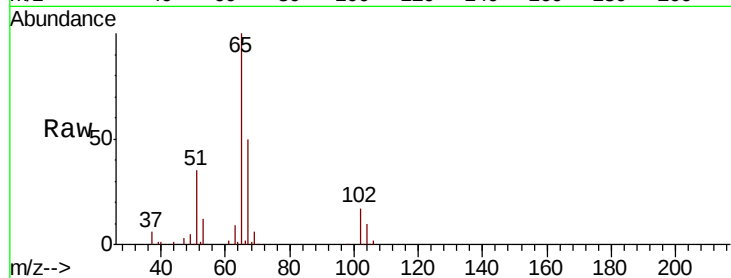
14B-3

Tot Ion: 65 Resp: 119642

Ion Ratio Lower Upper

65 100

67 49.9 43.8 65.6



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.55 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN064042.D

Acq: 9 Oct 2020 16:50

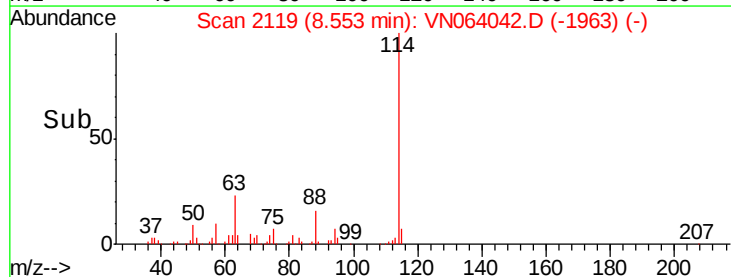
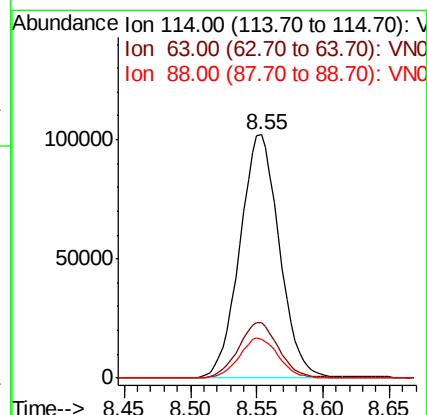
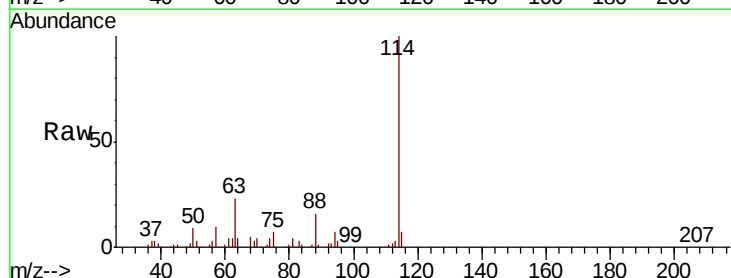
Tgt Ion: 114 Resp: 211931

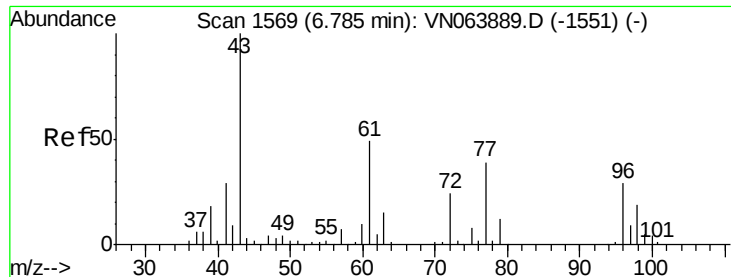
Ion Ratio Lower Upper

114 100

63 23.3 17.0 25.6

88 16.5 12.6 18.8

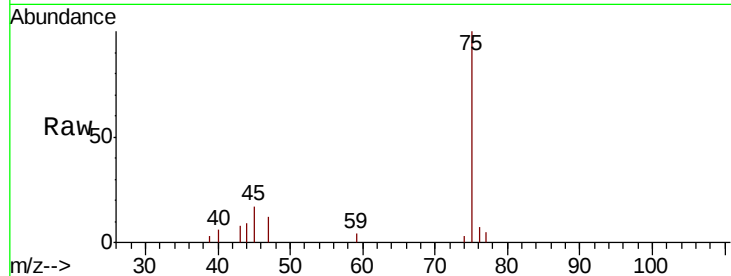




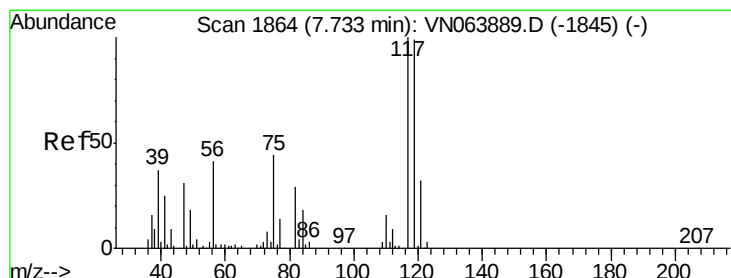
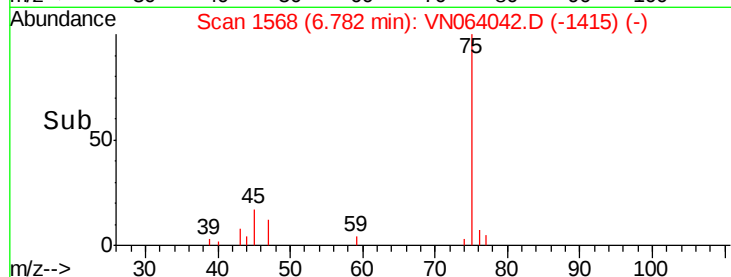
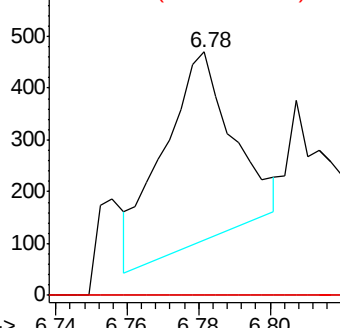
#30
2-Butanone
Concen: 0.276 ug/l
RT: 6.78 min Scan# 1568
Delta R.T. -0.01 min
Lab File: VN064042.D
Acq: 9 Oct 2020 16:50

Instrument :
MSVOA_N
ClientSampled :
14B-3

Tot Ion: 43 Resp: 503
Ion Ratio Lower Upper
43 100
57 0.0 6.6 9.8#
72 0.0 21.3 31.9#

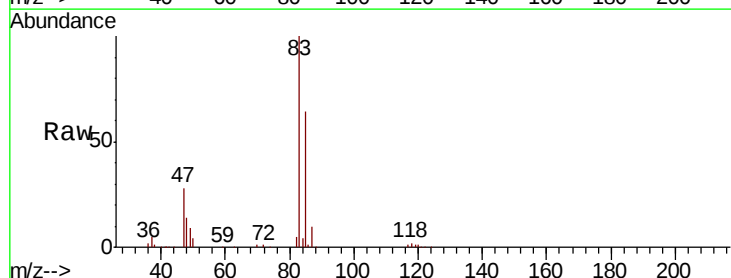


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 57.00 (56.70 to 57.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

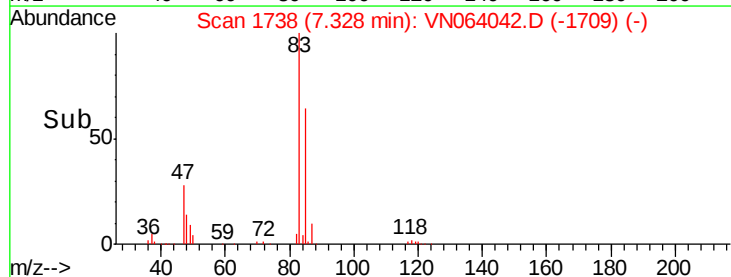
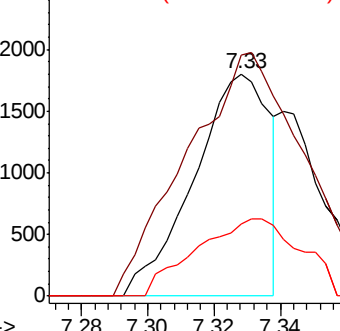


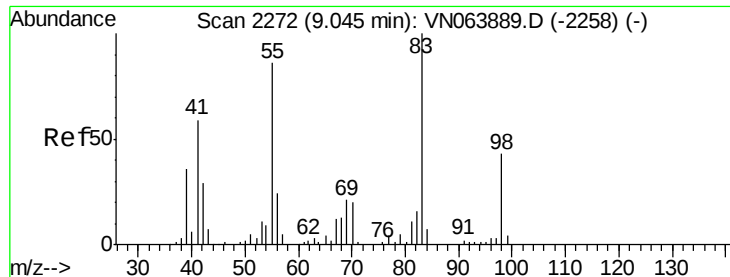
#33
Carbon Tetrachloride
Concen: 0.689 ug/l
RT: 7.33 min Scan# 1738
Delta R.T. -0.41 min
Lab File: VN064042.D
Acq: 9 Oct 2020 16:50

Tgt Ion: 117 Resp: 2860
Ion Ratio Lower Upper
117 100
119 98.4 73.0 109.4
121 32.4 24.9 37.3



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

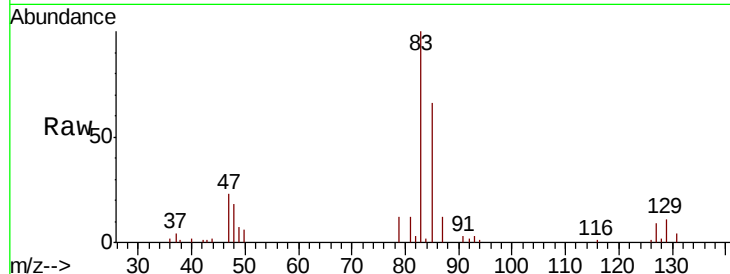




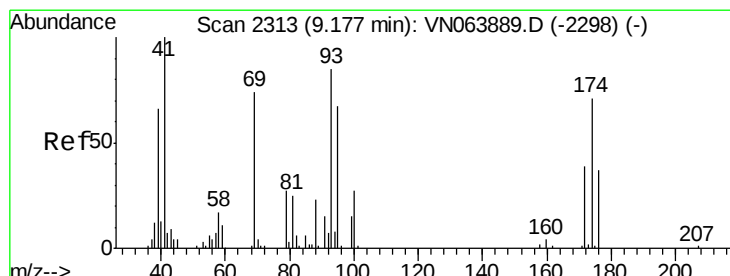
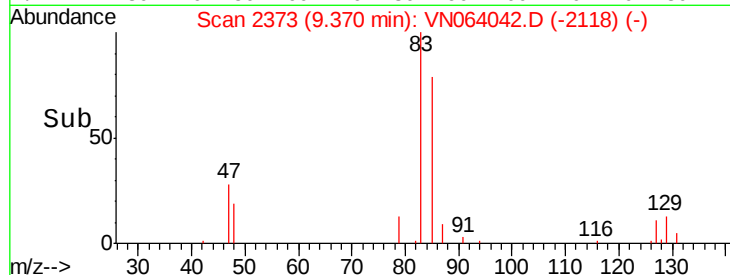
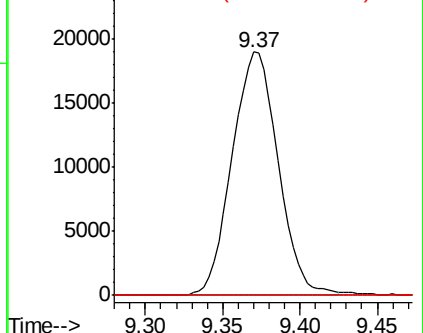
#38
Methylcyclohexane
Concen: 12.540 ug/l
RT: 9.37 min Scan# 2373
Delta R.T. 0.32 min
Lab File: VN064042.D
Acq: 9 Oct 2020 16:50

Instrument :
MSVOA_N
ClientSampleId :
14B-3

Tot Ion: 83 Resp: 39296
Ion Ratio Lower Upper
83 100
55 0.0 41.9 125.7#
98 0.0 22.2 66.6#

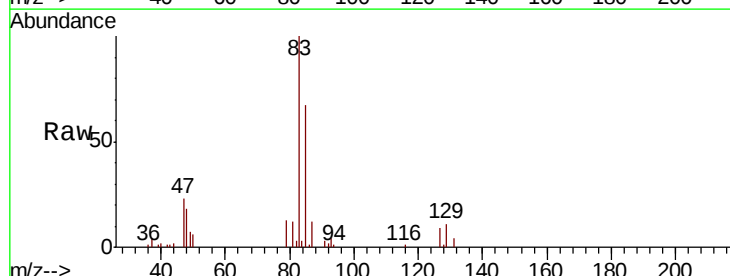


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

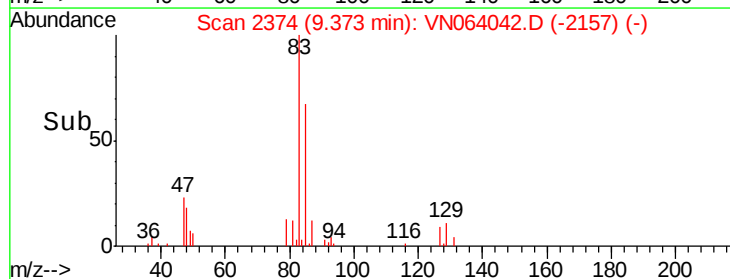
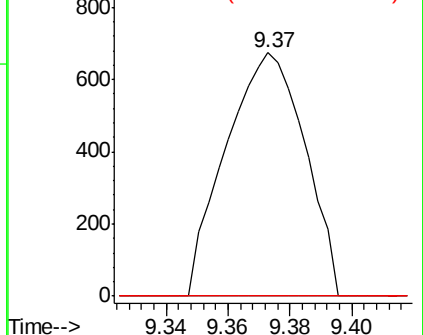


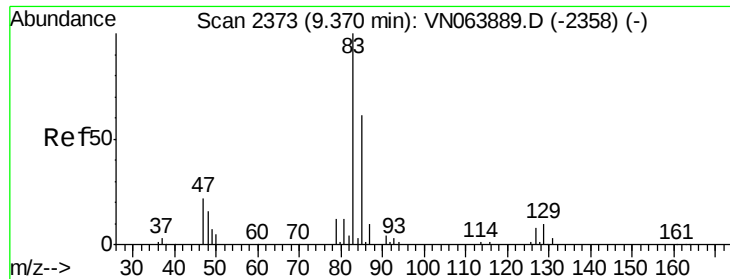
#40
Dibromomethane
Concen: 0.595 ug/l
RT: 9.37 min Scan# 2374
Delta R.T. 0.20 min
Lab File: VN064042.D
Acq: 9 Oct 2020 16:50

Tgt Ion: 93 Resp: 1191
Ion Ratio Lower Upper
93 100
95 0.0 0.0 168.2
174 0.0 0.0 208.4



Abundance Ion 93.00 (92.70 to 93.70): VN0
Ion 95.00 (94.70 to 95.70): VN0
Ion 174.00 (173.70 to 174.70): V





#41

Bromodichloromethane

Concen: 9.442 ug/l

RT: 9.37 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN064042.D

Acq: 9 Oct 2020 16:50

Instrument :

MSVOA_N

ClientSampled :

14B-3

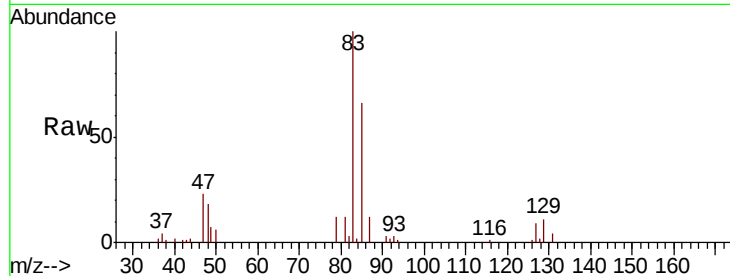
Tot Ion: 83 Resp: 39296

Ion Ratio Lower Upper

83 100

85 66.3 52.6 79.0

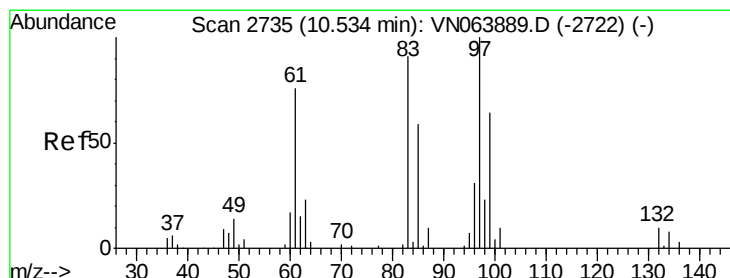
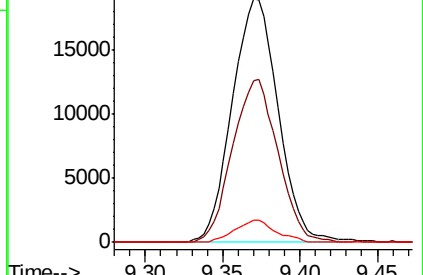
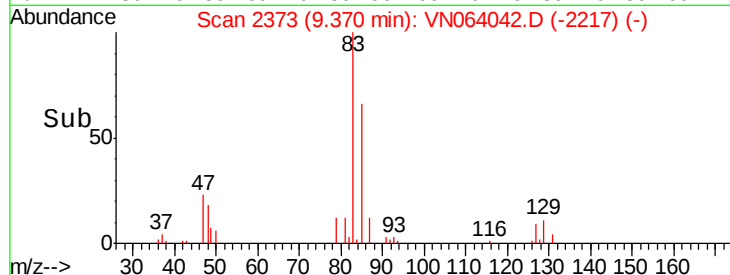
127 8.9 7.4 11.0



Abundance Ion 83.00 (82.70 to 83.70): VN064042.D (-2217) (-)

Ion 85.00 (84.70 to 85.70): VN064042.D (-2217) (-)

Ion 127.00 (126.70 to 127.70): VN064042.D (-2217) (-)



#50

1,1,2-Trichloroethane

Concen: 3.641 ug/l

RT: 10.06 min Scan# 2589

Delta R.T. -0.47 min

Lab File: VN064042.D

Acq: 9 Oct 2020 16:50

Tgt Ion: 97 Resp: 9737

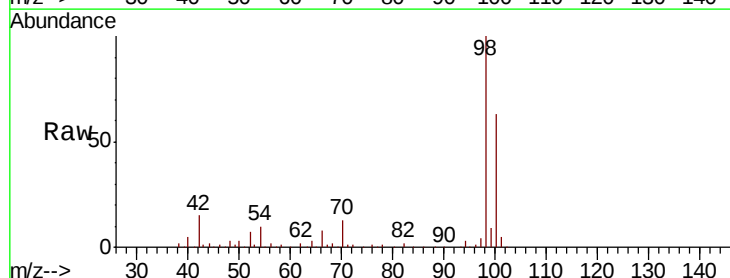
Ion Ratio Lower Upper

97 100

83 0.0 69.9 104.9#

85 0.0 44.0 66.0#

99 245.2 50.6 76.0#

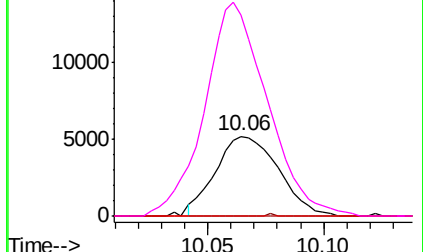
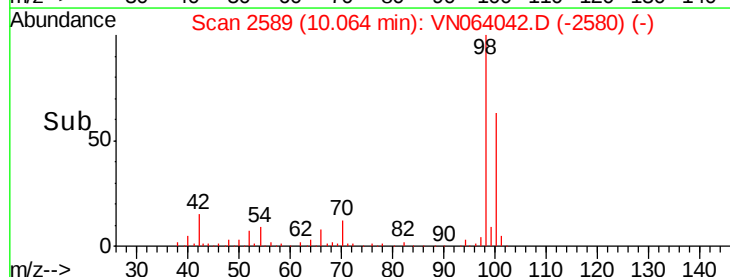


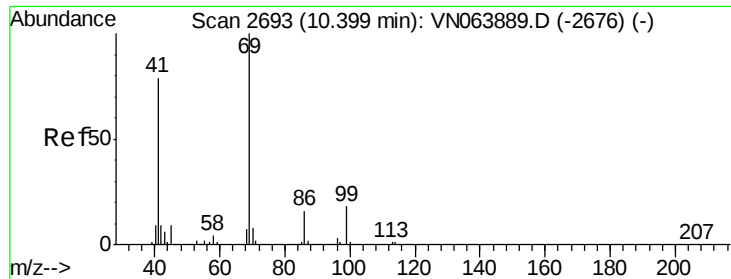
Abundance Ion 97.00 (96.70 to 97.70): VN064042.D (-2580) (-)

Ion 82.95 (82.65 to 83.65): VN064042.D (-2580) (-)

Ion 84.95 (84.65 to 85.65): VN064042.D (-2580) (-)

Ion 98.95 (98.65 to 99.65): VN064042.D (-2580) (-)





#51

Ethyl methacrylate

Concen: 0.242 ug/l

RT: 10.06 min Scan# 2589

Delta R.T. -0.34 min

Lab File: VN064042.D

Acq: 9 Oct 2020 16:50

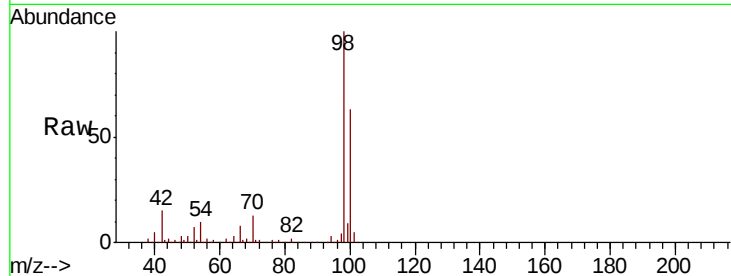
Instrument :

MSVOA_N

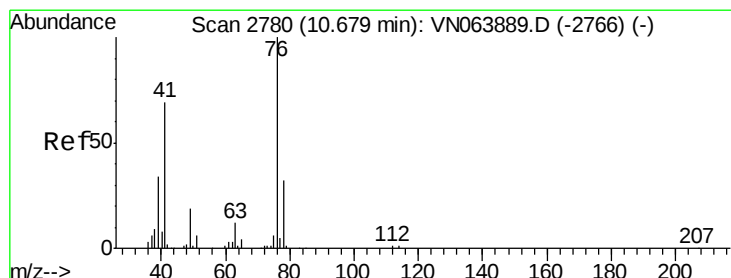
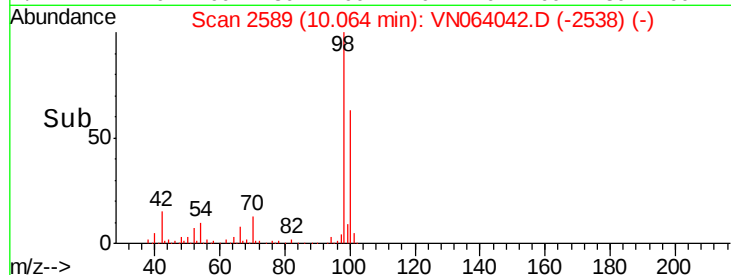
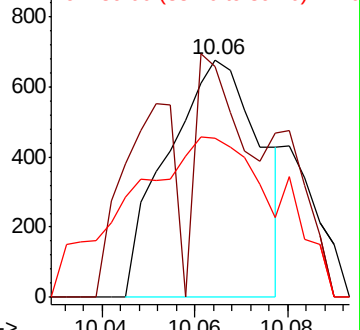
ClientSampled :

14B-3

Tot Ion:	69	Resp:	940
Ion	Ratio	Lower	Upper
69	100		
41	40.8	32.1	96.5
39	33.4	16.1	48.3



Abundance Ion 69.00 (68.70 to 69.70): VN063889.D (-2676) (-)



#52

1,3-Dichloropropane

Concen: 0.222 ug/l

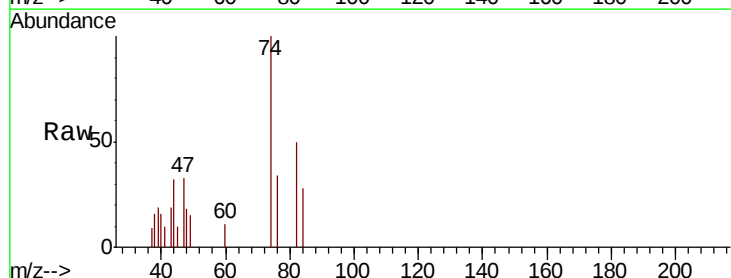
RT: 10.35 min Scan# 2678

Delta R.T. -0.33 min

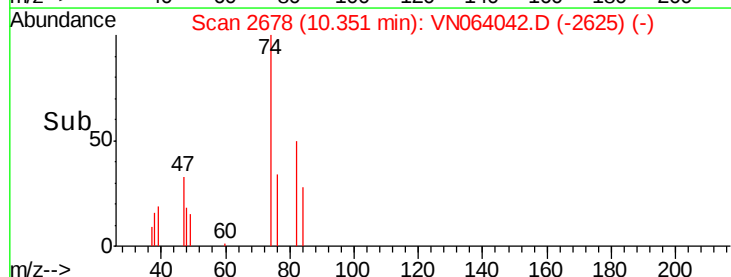
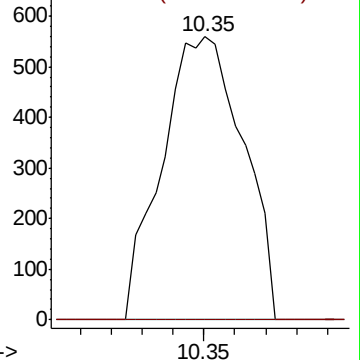
Lab File: VN064042.D

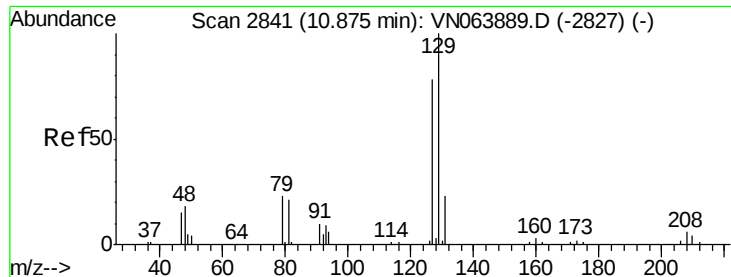
Acq: 9 Oct 2020 16:50

Tgt Ion:	76	Resp:	1018
Ion	Ratio	Lower	Upper
76	100		
78	0.0	0.0	63.2



Abundance Ion 76.00 (75.70 to 76.70): VN063889.D (-2766) (-)





#53

Dibromochloromethane

Concen: 0.788 ug/l

RT: 10.87 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VN064042.D

Acq: 9 Oct 2020 16:50

Instrument :

MSVOA_N

ClientSampled :

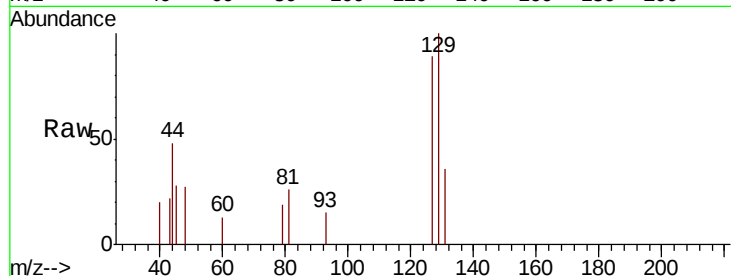
14B-3

Tot Ion:129 Resp: 2424

Ion Ratio Lower Upper

129 100

127 63.8 38.7 116.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

10.87

1000

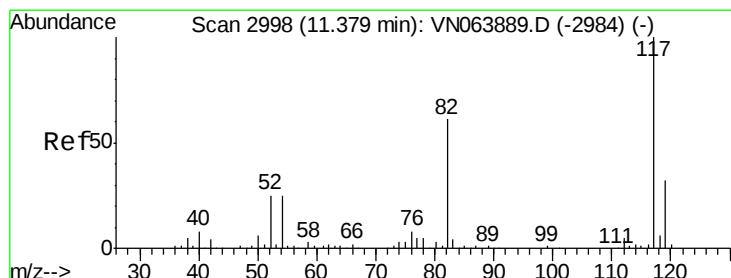
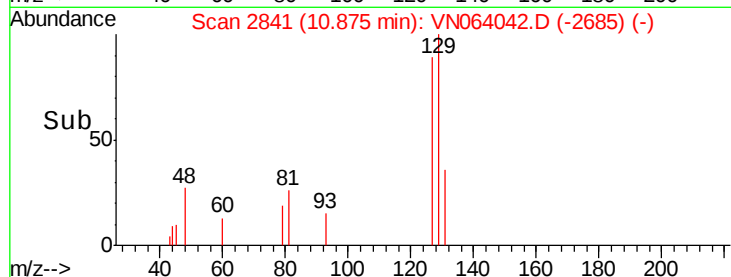
500

0

Time-->

10.85

10.90



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN064042.D

Acq: 9 Oct 2020 16:50

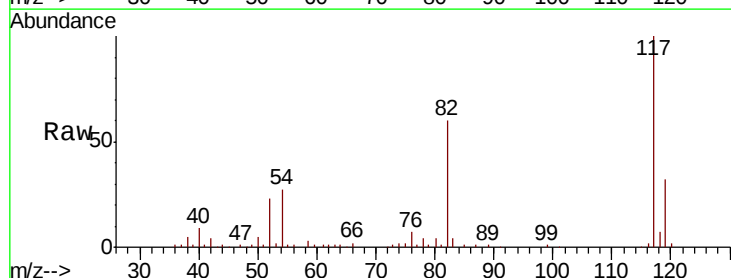
Tgt Ion:117 Resp: 194754

Ion Ratio Lower Upper

117 100

82 60.6 44.9 67.3

119 32.0 26.0 39.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V

150000

100000

50000

0

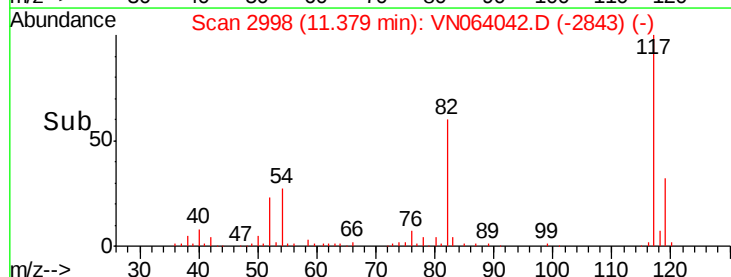
Time-->

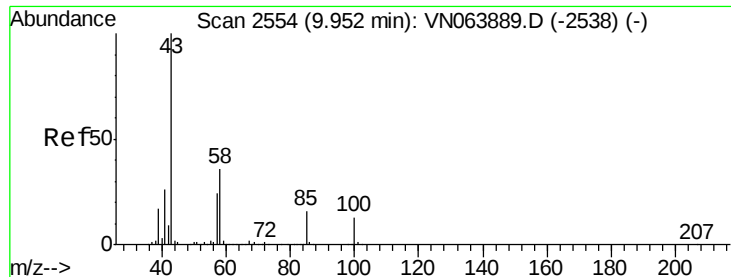
11.30

11.35

11.40

11.45

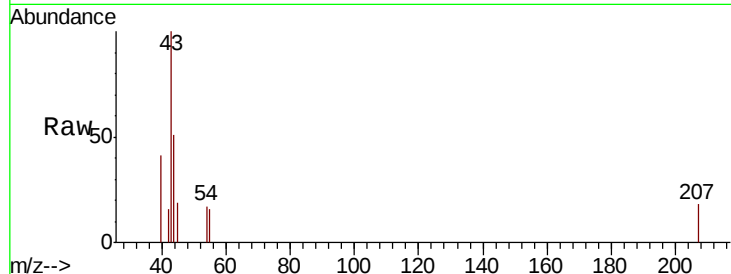




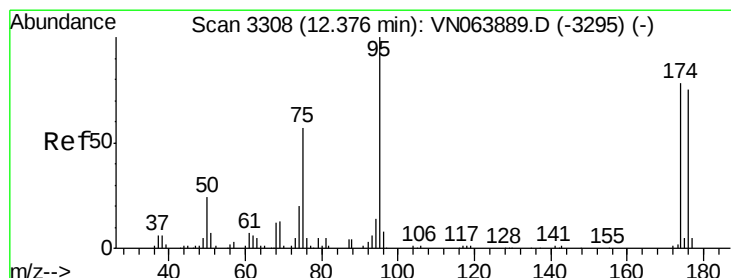
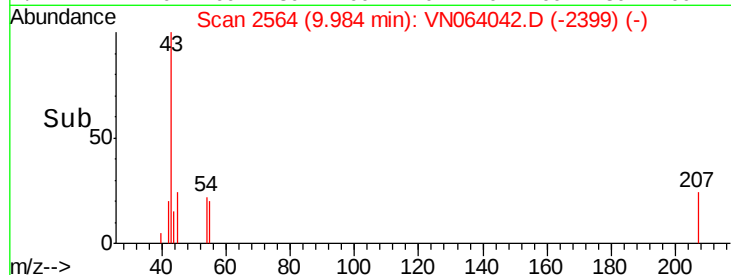
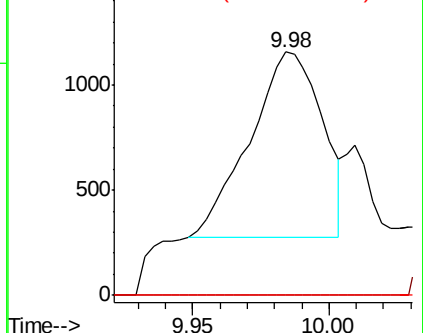
#58
4-Methyl-2-Pentanone
Concen: 0.431 ug/l
RT: 9.98 min Scan# 2564
Delta R.T. 0.03 min
Lab File: VN064042.D
Acq: 9 Oct 2020 16:50

Instrument :
MSVOA_N
ClientSampled :
14B-3

Tot Ion: 43 Resp: 1630
Ion Ratio Lower Upper
43 100
58 0.0 31.4 47.0#
85 0.0 13.4 20.2#

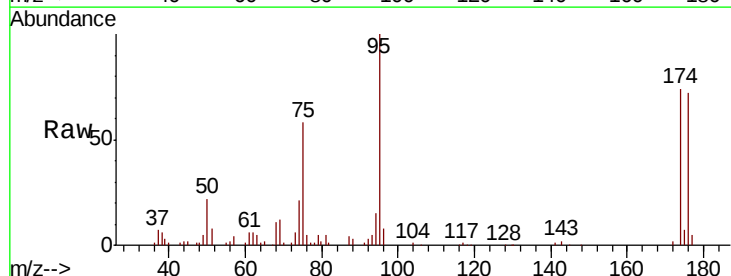


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0
Ion 85.00 (84.70 to 85.70): VN0

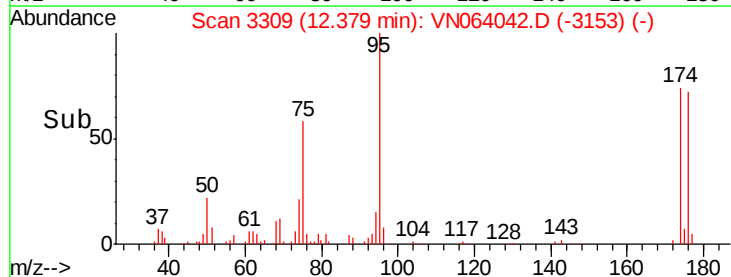
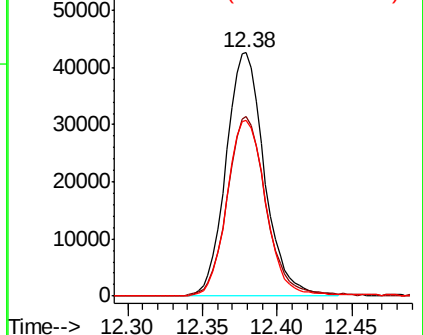


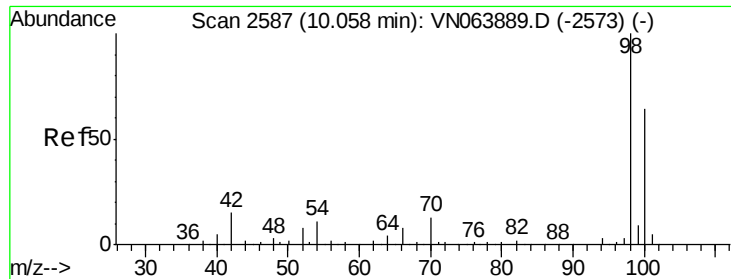
#60
4-Bromofluorobenzene
Concen: 22.869 ug/l
RT: 12.38 min Scan# 3309
Delta R.T. 0.00 min
Lab File: VN064042.D
Acq: 9 Oct 2020 16:50

Tgt Ion: 95 Resp: 76165
Ion Ratio Lower Upper
95 100
174 74.5 70.1 105.1
176 72.8 66.8 100.2



Abundance Ion 95.00 (94.70 to 95.70): VN0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V





#63

Toluene-d8

Concen: 30.363 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064042.D

Acq: 9 Oct 2020 16:50

Instrument :

MSVOA_N

ClientSampled :

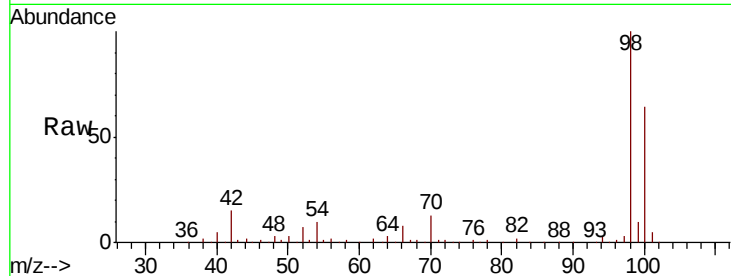
14B-3

Tot Ion: 98 Resp: 267981

Ion Ratio Lower Upper

98 100

100 62.4 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN063889.D (-2573) (-)

Ion 100.00 (99.70 to 100.70): VN063889.D (-2573) (-)

10.06

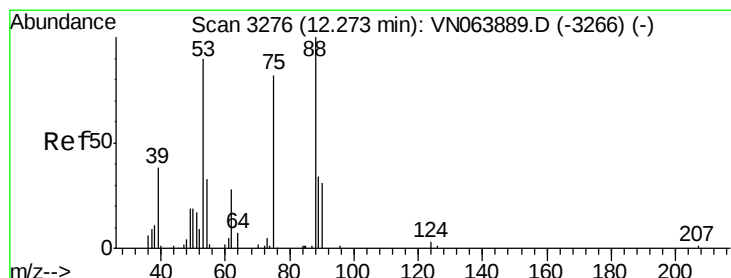
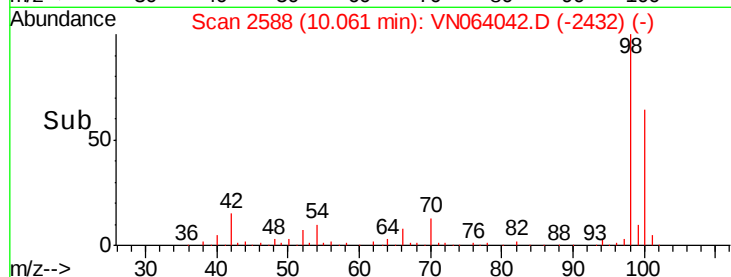
150000

100000

50000

0

Time-->



#77

t-1,4-Dichloro-2-butene

Concen: 32.277 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.10 min

Lab File: VN064042.D

Acq: 9 Oct 2020 16:50

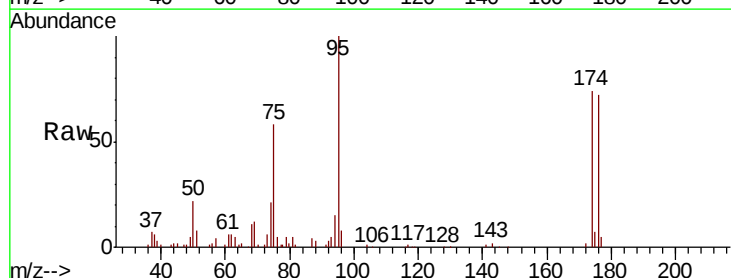
Tgt Ion: 75 Resp: 42789

Ion Ratio Lower Upper

75 100

53 0.0 47.0 141.0#

89 0.0 22.9 68.7#



Abundance Ion 75.00 (74.70 to 75.70): VN063889.D (-3266) (-)

Ion 53.00 (52.70 to 53.70): VN063889.D (-3266) (-)

Ion 89.00 (88.70 to 89.70): VN063889.D (-3266) (-)

12.38

30000

20000

10000

0

Time-->

