

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111020\
 Data File : VN064539.D
 Acq On : 10 Nov 2020 20:38
 Operator : JC/MD
 Sample : L4672-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DRUM-2

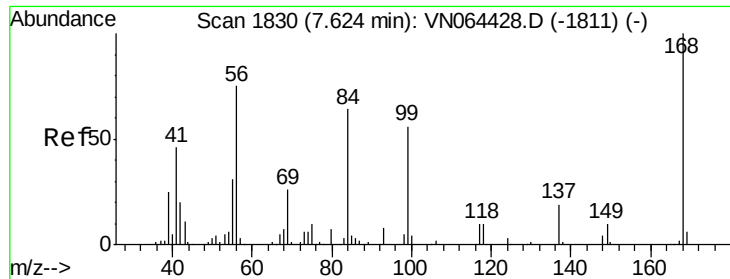
Quant Time: Nov 11 01:55:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 04 12:09:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	242196	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	506996	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	536469	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	197287	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	236523	56.07	ug/l	0.00
Spiked Amount 50.000			Recovery =	112.14%		
35) Dibromofluoromethane	7.55	113	176185	51.04	ug/l	0.00
Spiked Amount 50.000			Recovery =	102.08%		
50) Toluene-d8	10.06	98	661911	49.61	ug/l	0.00
Spiked Amount 50.000			Recovery =	99.22%		
62) 4-Bromofluorobenzene	12.38	95	245826	48.72	ug/l	0.00
Spiked Amount 50.000			Recovery =	97.44%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	665	1.429	ug/l #	49
13) Acrolein	3.48	56	101	0.350	ug/l #	26
16) Acetone	3.78	43	14388	8.953	ug/l #	87
17) Carbon Disulfide	4.01	76	6495	0.838	ug/l #	92
20) Methylene Chloride	4.51	84	10967	3.440	ug/l	99
25) 2-Butanone	6.80	43	856	0.418	ug/l #	52
31) Cyclohexane	7.63	56	6868	1.339	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	22239	4.152	ug/l #	53
37) Ethyl Acetate	6.90	43	380	0.831	ug/l #	71
38) Carbon Tetrachloride	7.63	117	27840	4.863	ug/l #	19
43) Isopropyl Acetate	8.13	43	28693	3.306	ug/l	99
45) 1,2-Dichloropropane	9.24	63	1417	0.337	ug/l #	45
48) Methyl methacrylate	9.15	41	8224	1.878	ug/l #	15
49) 1,4-Dioxane	9.23	88	30	0.520	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	5146	1.017	ug/l	92
54) cis-1,3-Dichloropropene	9.87	75	17395	2.582	ug/l #	72
56) Ethyl methacrylate	10.26	69	136	1.862	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	8786	1.345	ug/l #	42
59) 2-Hexanone	10.74	43	134122	35.998	ug/l #	55
71) Bromoform	12.38	173	1267	1.650	ug/l #	1
74) N-amyl acetate	12.02	43	701	1.304	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	136596	28.576	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	136596	79.787	ug/l #	8
95) Naphthalene	15.10	128	363	3.654	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN064539.D

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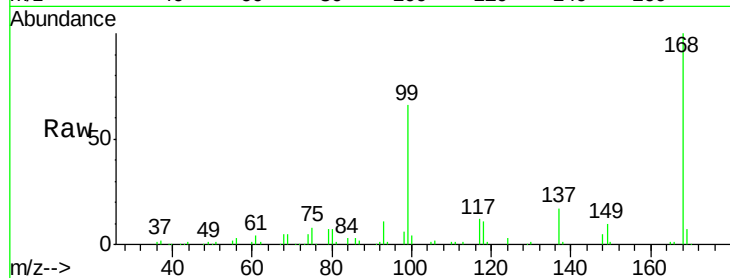
DRUM-2

Tot Ion:168 Resp: 242196

Ion Ratio Lower Upper

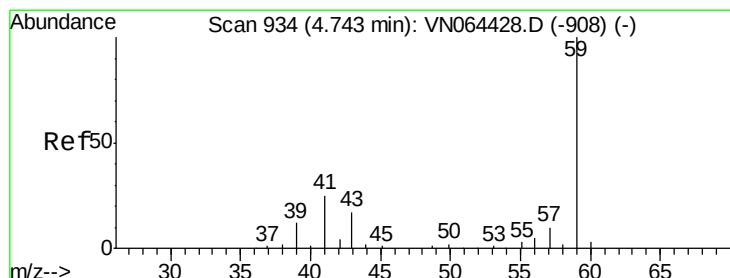
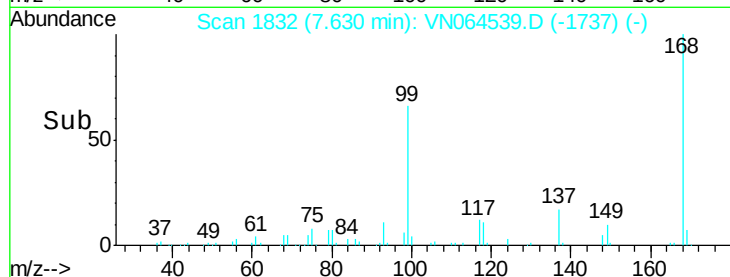
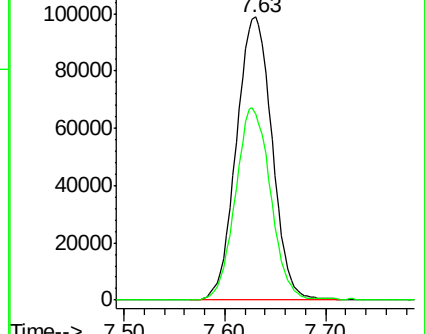
168 100

99 65.9 53.4 80.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 1.429 ug/l

RT: 4.75 min Scan# 935

Delta R.T. 0.00 min

Lab File: VN064539.D

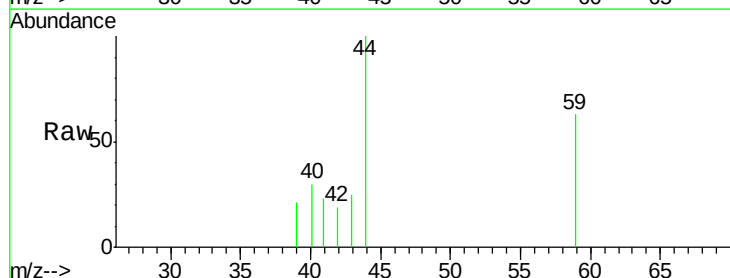
Acq: 10 Nov 2020 20:38

Tgt Ion: 59 Resp: 665

Ion Ratio Lower Upper

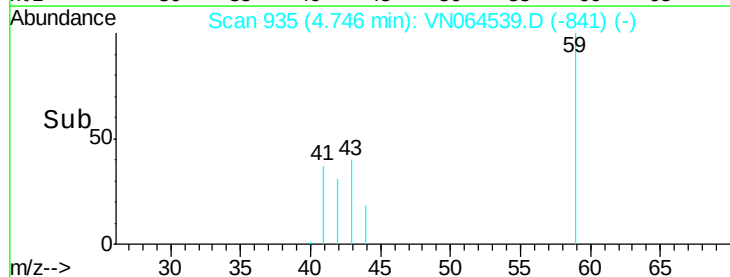
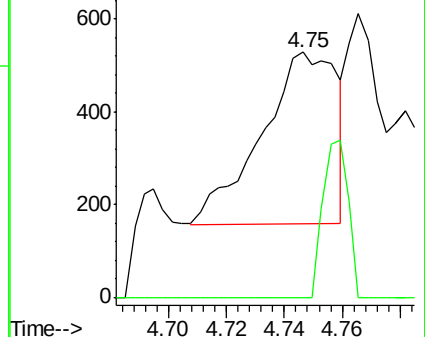
59 100

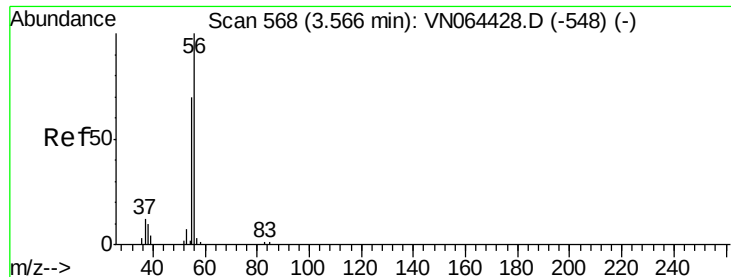
57 30.8 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#13

Acrolein

Concen: 0.350 ug/l

RT: 3.48 min Scan# 541

Delta R.T. -0.09 min

Lab File: VN064539.D

Acq: 10 Nov 2020 20:38

Instrument :

MSVOA_N

ClientSampled :

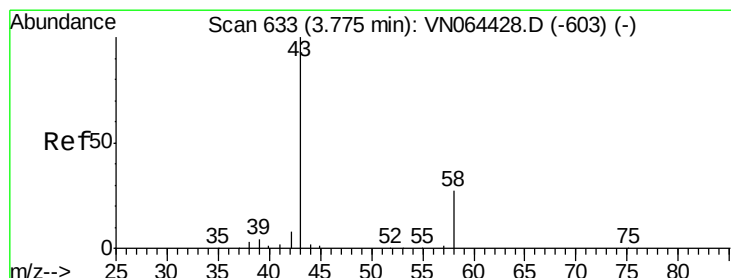
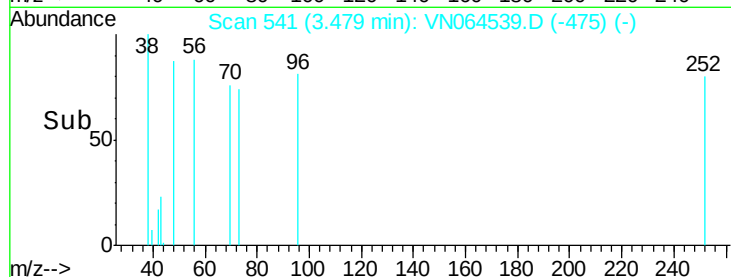
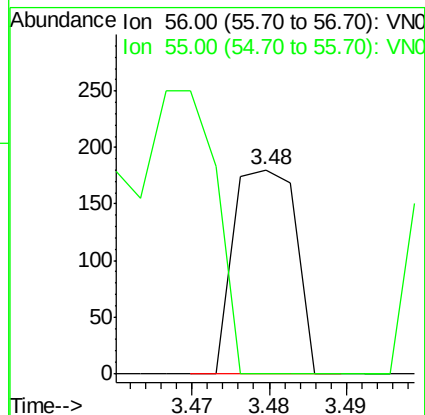
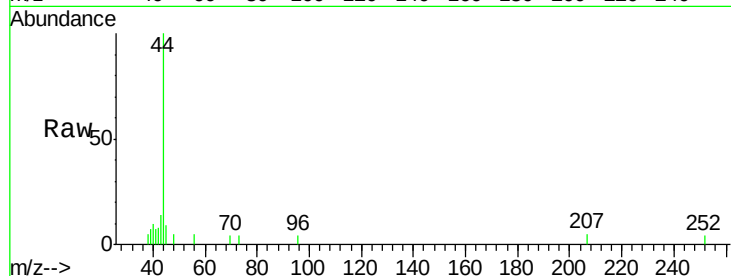
DRUM-2

Tot Ion: 56 Resp: 101

Ion Ratio Lower Upper

56 100

55 130.7 55.9 83.9#



#16

Acetone

Concen: 8.953 ug/l

RT: 3.78 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN064539.D

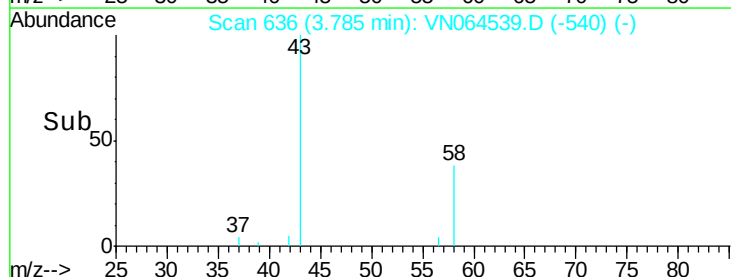
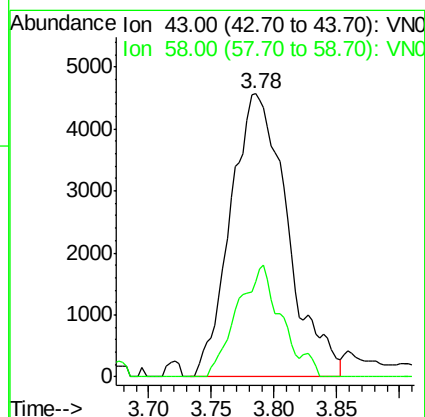
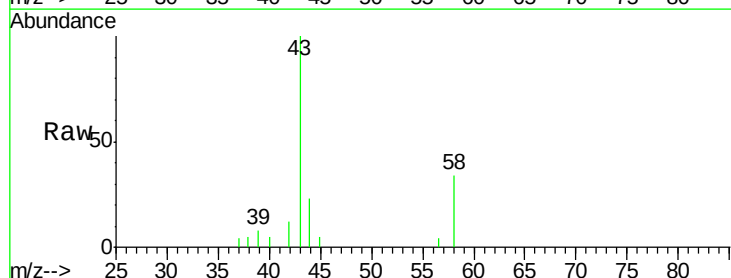
Acq: 10 Nov 2020 20:38

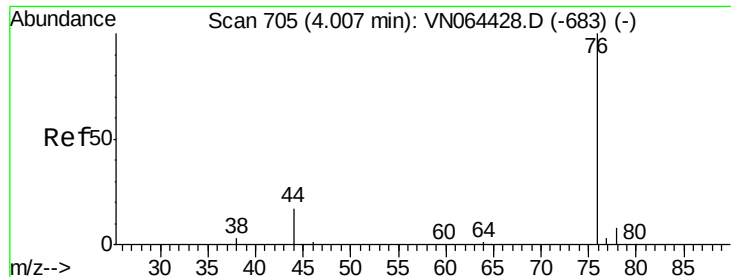
Tgt Ion: 43 Resp: 14388

Ion Ratio Lower Upper

43 100

58 33.5 21.4 32.0#





#17

Carbon Disulfide

Concen: 0.838 ug/l

RT: 4.01 min Scan# 705

Delta R.T. -0.00 min

Lab File: VN064539.D

Acq: 10 Nov 2020 20:38

Instrument :

MSVOA_N

ClientSampleId :

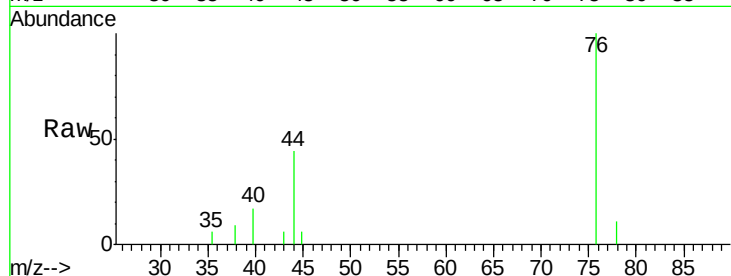
DRUM-2

Tot Ion: 76 Resp: 6495

Ion Ratio Lower Upper

76 100

78 11.5 6.8 10.2#



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO

4.01

2500

2000

1500

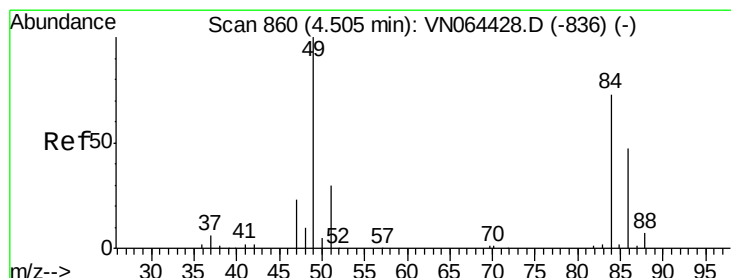
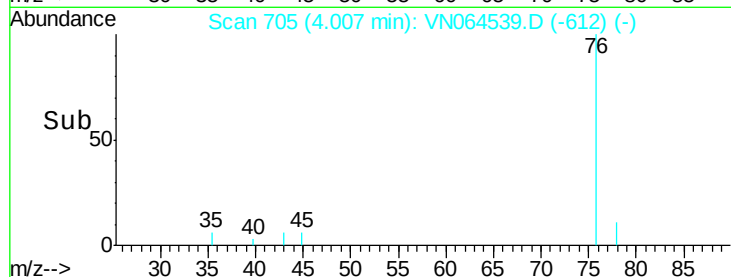
1000

500

0

Time-->

3.95 4.00 4.05 4.10



#20

Methylene Chloride

Concen: 3.440 ug/l

RT: 4.51 min Scan# 860

Delta R.T. -0.00 min

Lab File: VN064539.D

Acq: 10 Nov 2020 20:38

Tgt Ion: 84 Resp: 10967

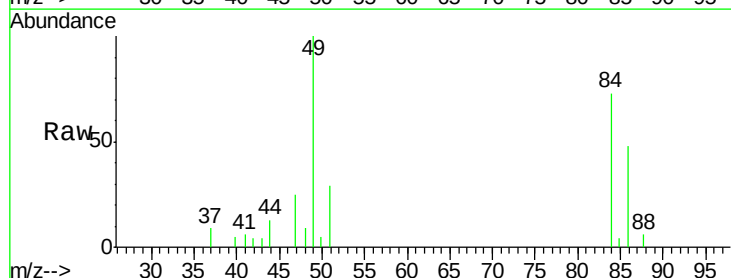
Ion Ratio Lower Upper

84 100

49 136.6 110.1 165.1

51 40.2 33.6 50.4

86 66.2 52.1 78.1



Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO

8000

6000

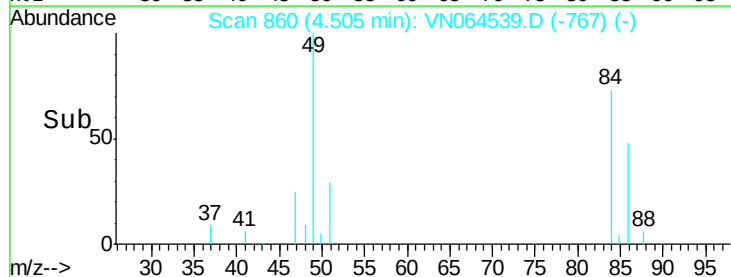
4000

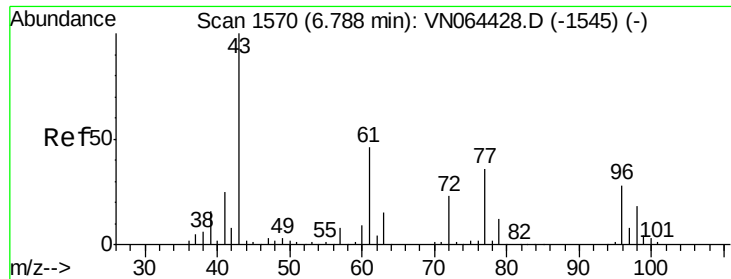
2000

0

Time-->

4.40 4.45 4.50 4.55 4.60

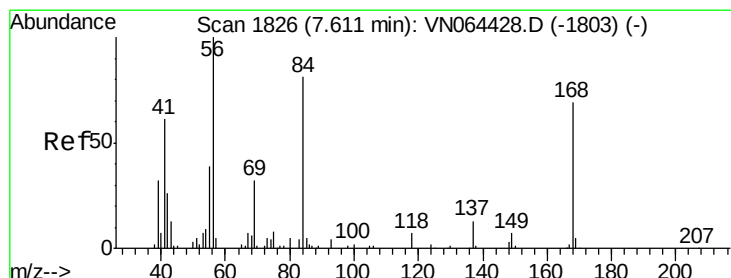
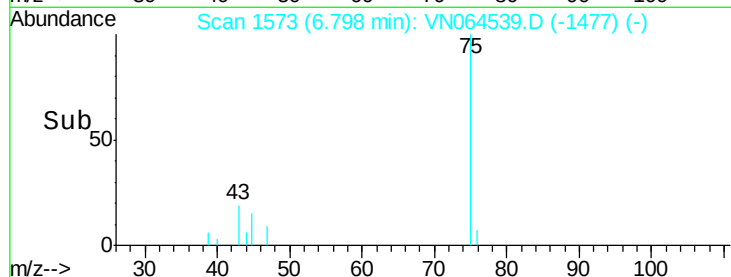
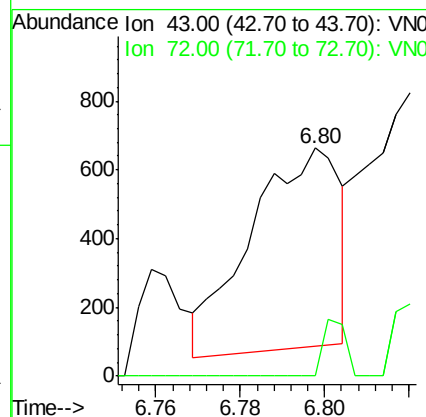
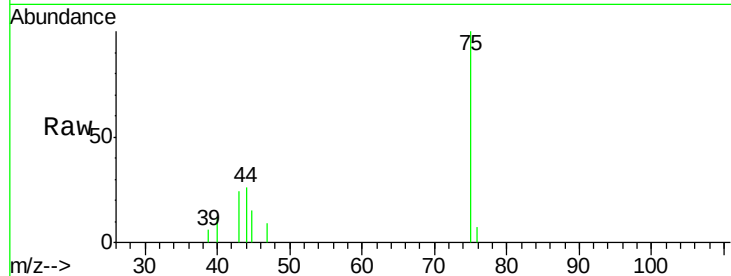




#25
2-Butanone
Concen: 0.418 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN064539.D
Acq: 10 Nov 2020 20:38

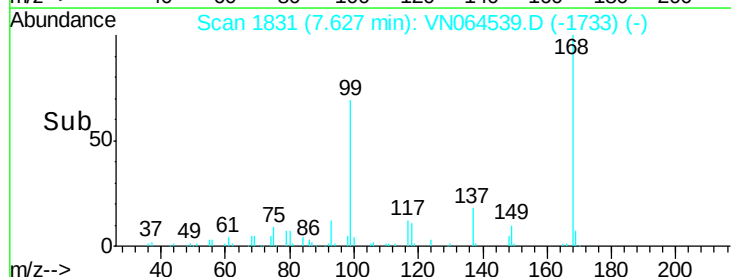
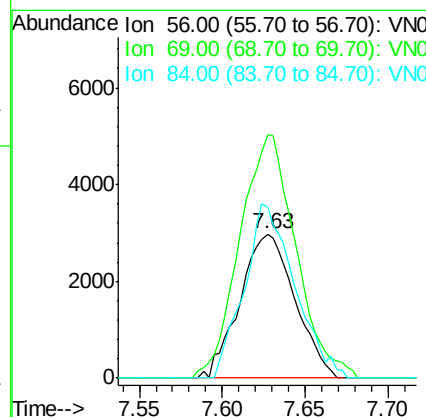
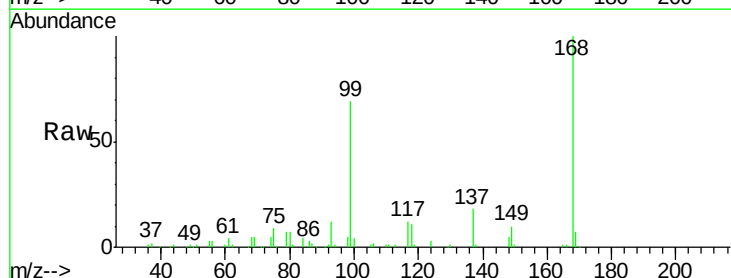
Instrument :
MSVOA_N
ClientSampled :
DRUM-2

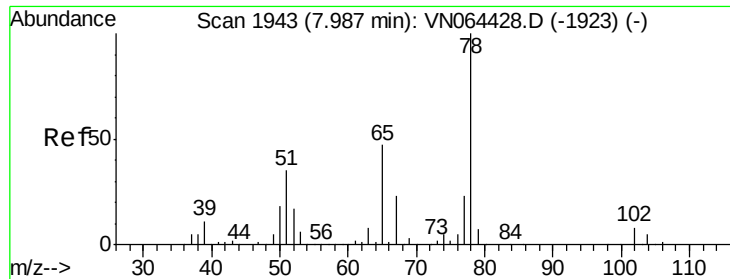
Tot Ion: 43 Resp: 856
Ion Ratio Lower Upper
43 100
72 0.0 18.5 27.7#



#31
Cyclohexane
Concen: 1.339 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.02 min
Lab File: VN064539.D
Acq: 10 Nov 2020 20:38

Tgt Ion: 56 Resp: 6868
Ion Ratio Lower Upper
56 100
69 169.3 25.6 38.4#
84 118.2 63.0 94.6#

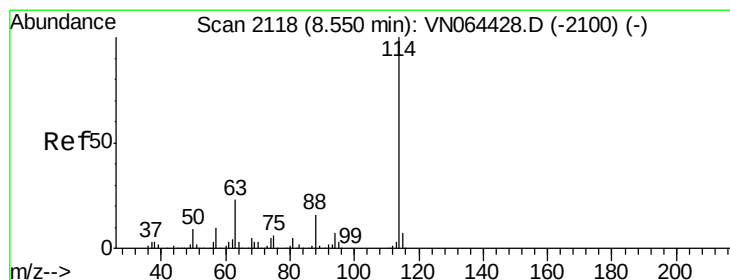
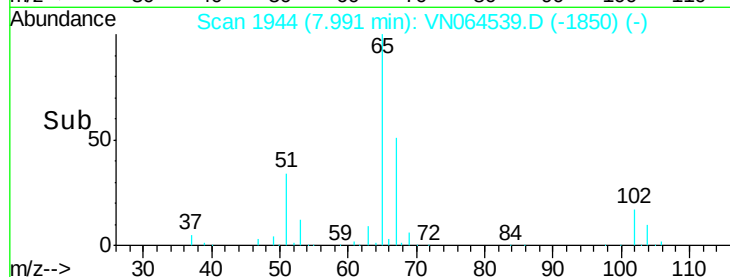
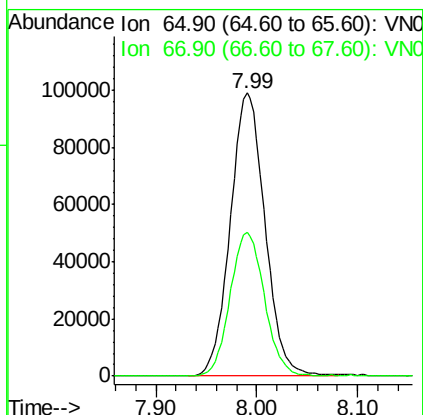
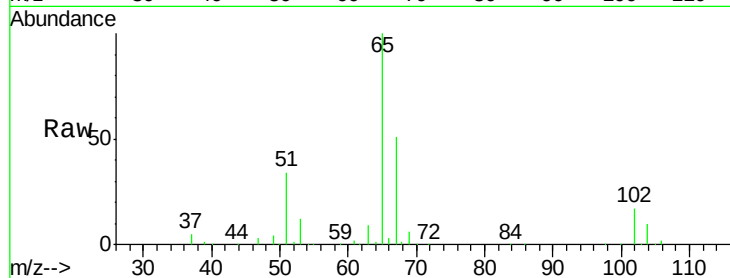




#33
 1,2-Dichloroethane-d4
 Concen: 56.066 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN064539.D
 Acq: 10 Nov 2020 20:38

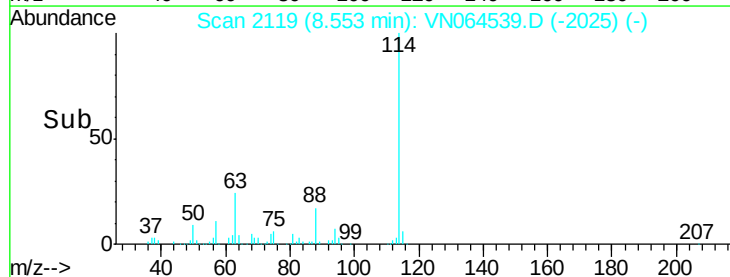
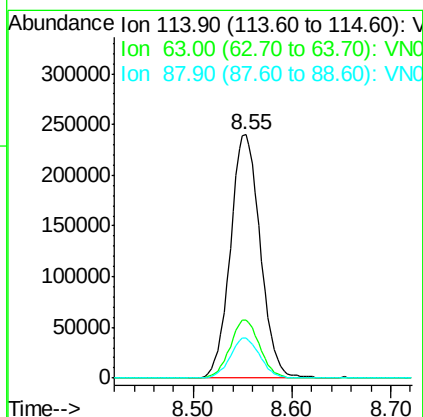
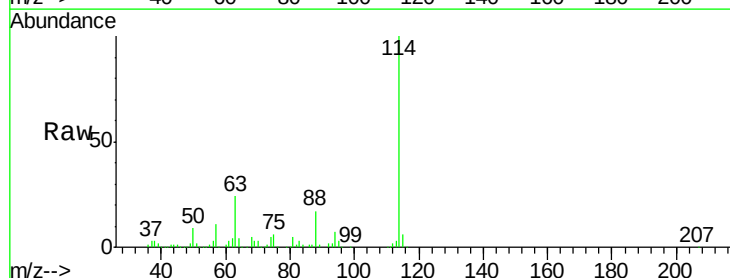
Instrument :
 MSVOA_N
 ClientSampled :
 DRUM-2

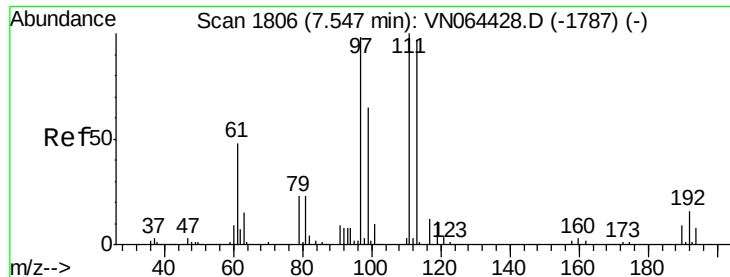
Tot Ion: 65 Resp: 236523
 Ion Ratio Lower Upper
 65 100
 67 50.2 0.0 101.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN064539.D
 Acq: 10 Nov 2020 20:38

Tgt Ion: 114 Resp: 506996
 Ion Ratio Lower Upper
 114 100
 63 24.1 0.0 45.6
 88 16.5 0.0 32.8

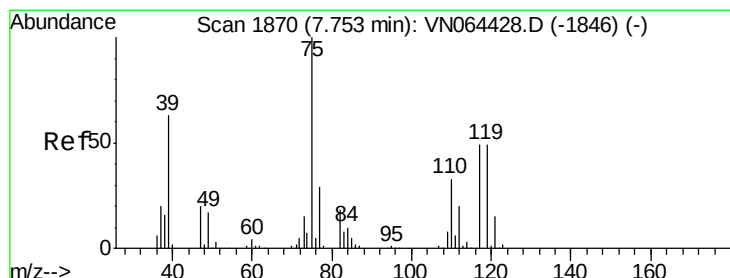
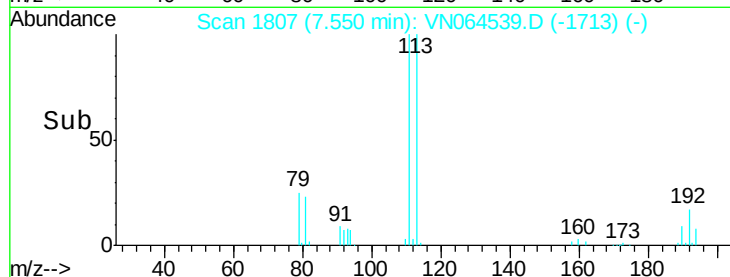
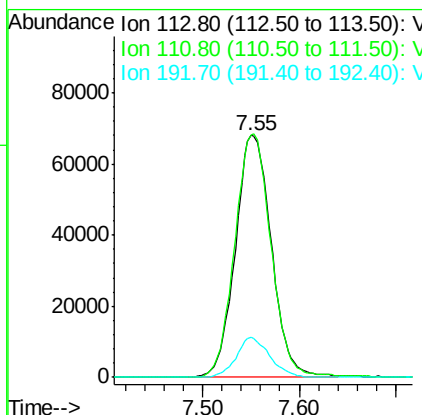
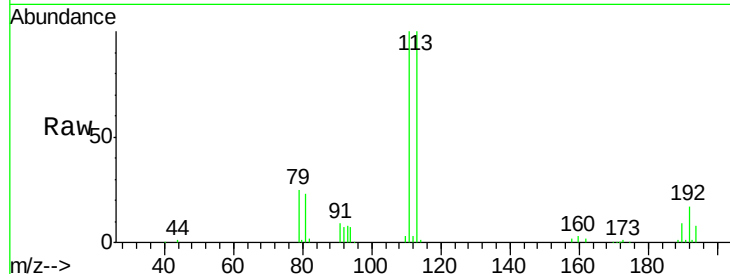




#35
 Dibromofluoromethane
 Concen: 51.039 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064539.D
 Acq: 10 Nov 2020 20:38

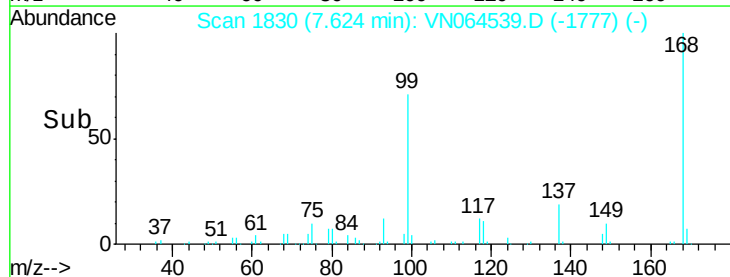
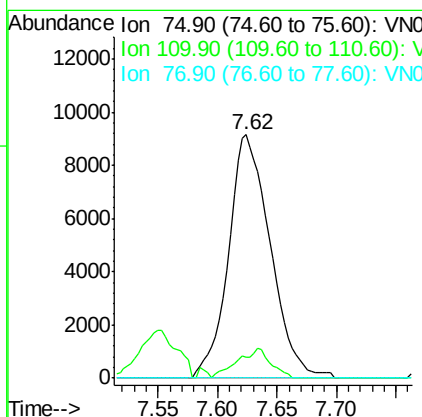
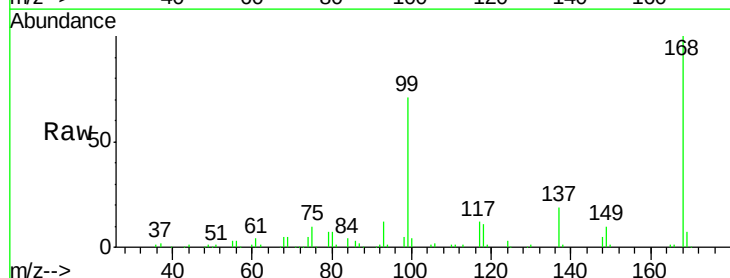
Instrument :
 MSVOA_N
 ClientSampleId :
 DRUM-2

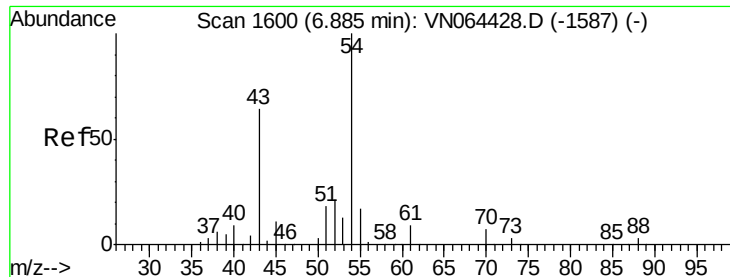
Tot Ion:113 Resp: 176185
 Ion Ratio Lower Upper
 113 100
 111 100.5 81.1 121.7
 192 15.5 12.8 19.2



#36
 1,1-Dichloropropene
 Concen: 4.152 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064539.D
 Acq: 10 Nov 2020 20:38

Tgt Ion: 75 Resp: 22239
 Ion Ratio Lower Upper
 75 100
 110 9.8 16.0 48.0#
 77 0.0 24.0 36.0#

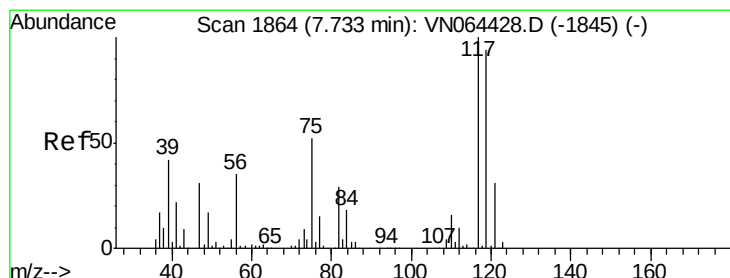
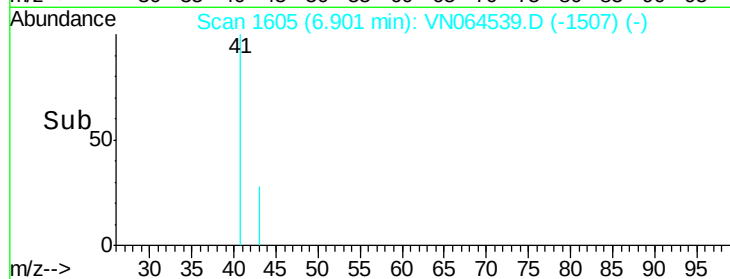
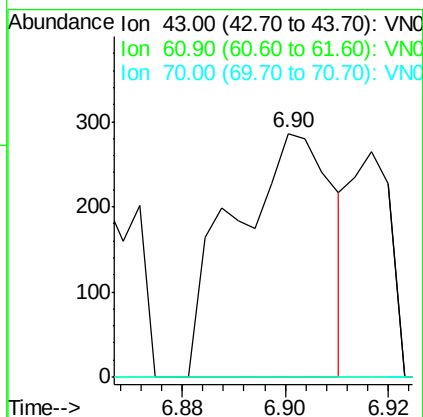
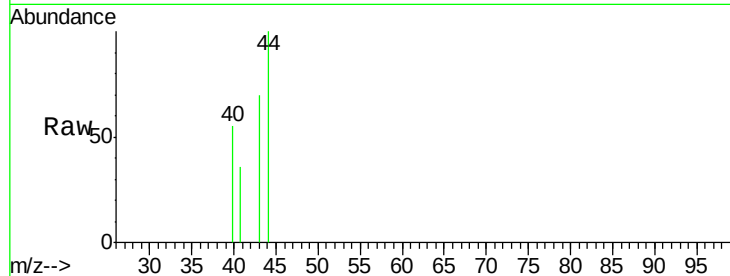




#37
Ethyl Acetate
Concen: 0.831 ug/l
RT: 6.90 min Scan# 1605
Delta R.T. 0.02 min
Lab File: VN064539.D
Acq: 10 Nov 2020 20:38

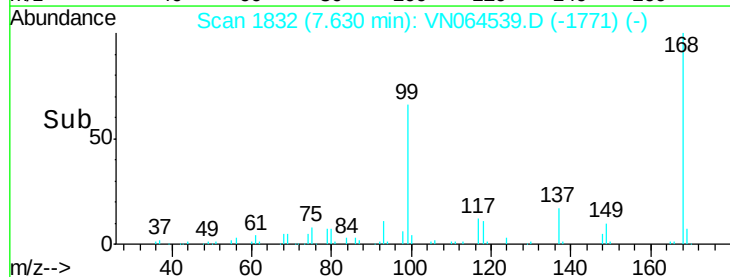
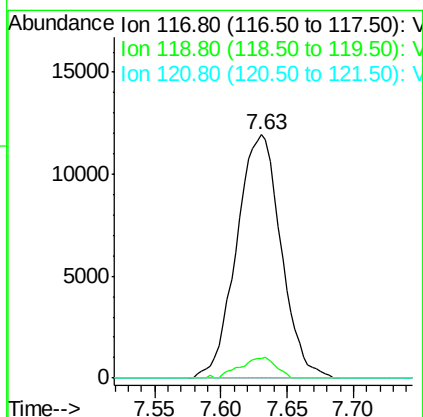
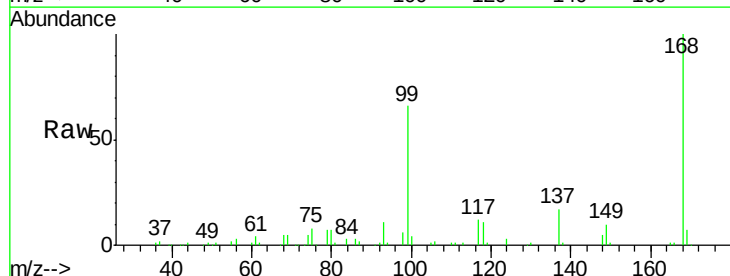
Instrument :
MSVOA_N
ClientSampleId :
DRUM-2

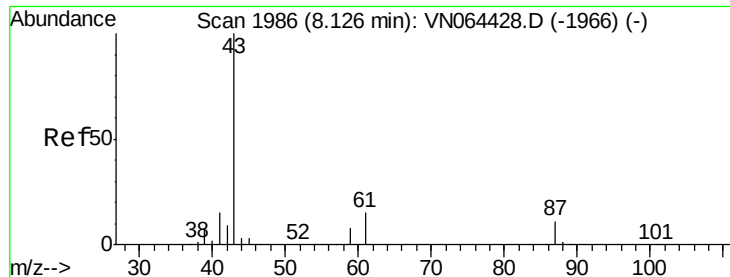
Tot Ion: 43 Resp: 380
Ion Ratio Lower Upper
43 100
61 0.0 10.0 15.0#
70 0.0 7.1 10.7#



#38
Carbon Tetrachloride
Concen: 4.863 ug/l
RT: 7.63 min Scan# 1832
Delta R.T. -0.10 min
Lab File: VN064539.D
Acq: 10 Nov 2020 20:38

Tgt Ion: 117 Resp: 27840
Ion Ratio Lower Upper
117 100
119 8.3 75.5 113.3#
121 0.0 24.4 36.6#





#43

Isopropyl Acetate

Concen: 3.306 ug/l

RT: 8.13 min Scan# 1988

Delta R.T. 0.01 min

Lab File: VN064539.D

Acq: 10 Nov 2020 20:38

Instrument :

MSVOA_N

ClientSampled :

DRUM-2

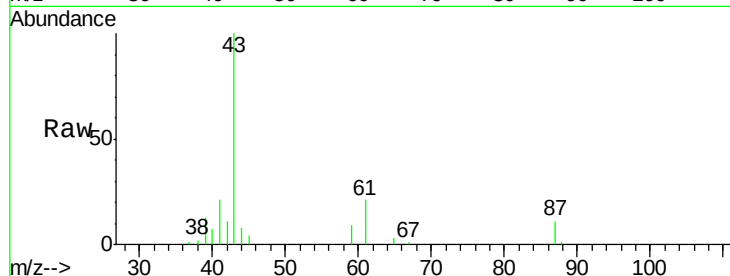
Tot Ion: 43 Resp: 28693

Ion Ratio Lower Upper

43 100

61 18.1 14.0 21.0

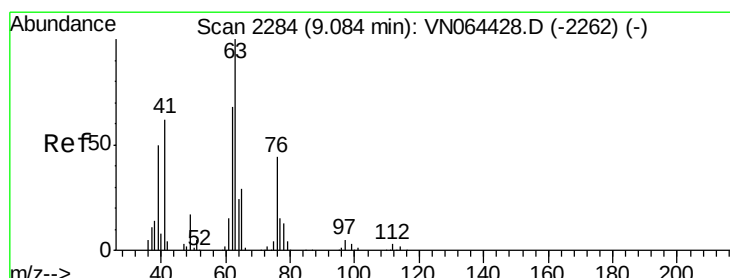
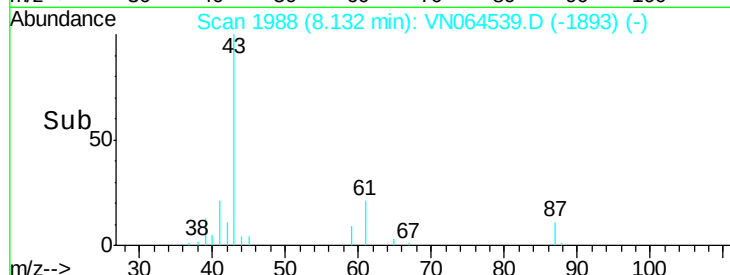
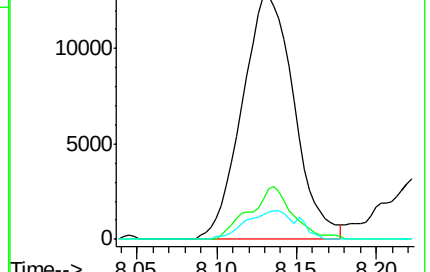
87 11.7 9.1 13.7



Abundance Ion 43.00 (42.70 to 43.70): VN064539.D (-1988) (-)

Ion 61.00 (60.70 to 61.70): VN064539.D (-1988) (-)

Ion 87.00 (86.70 to 87.70): VN064539.D (-1988) (-)



#45

1,2-Dichloropropane

Concen: 0.337 ug/l

RT: 9.24 min Scan# 2333

Delta R.T. 0.16 min

Lab File: VN064539.D

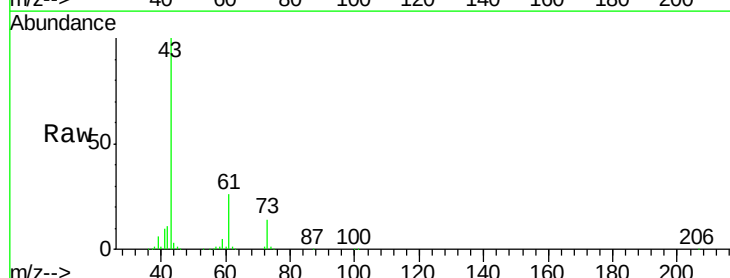
Acq: 10 Nov 2020 20:38

Tgt Ion: 63 Resp: 1417

Ion Ratio Lower Upper

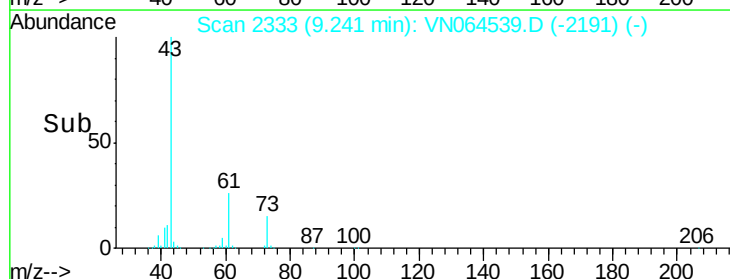
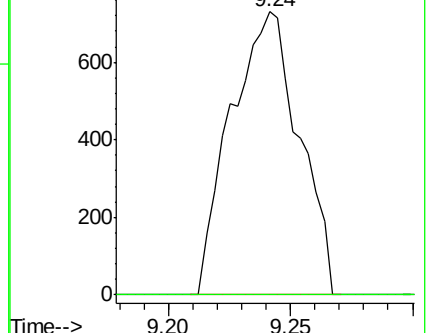
63 100

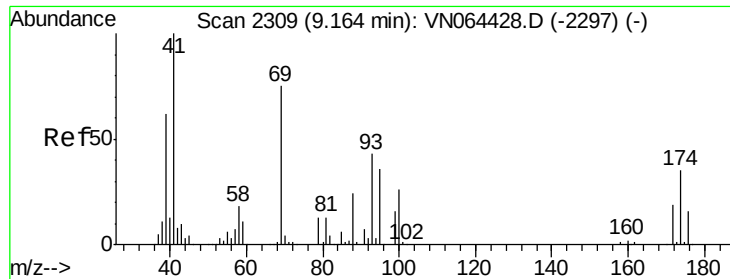
65 0.0 23.6 35.4#



Abundance Ion 62.90 (62.60 to 63.60): VN064539.D (-2333) (-)

Ion 64.90 (64.60 to 65.60): VN064539.D (-2333) (-)

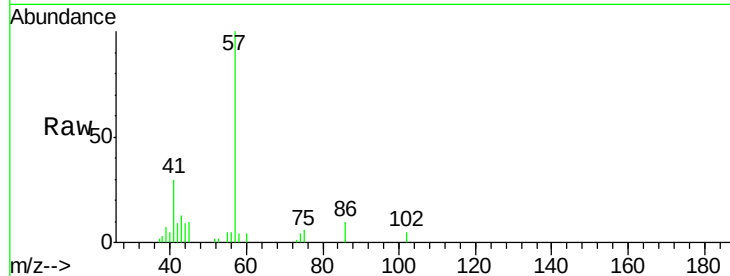




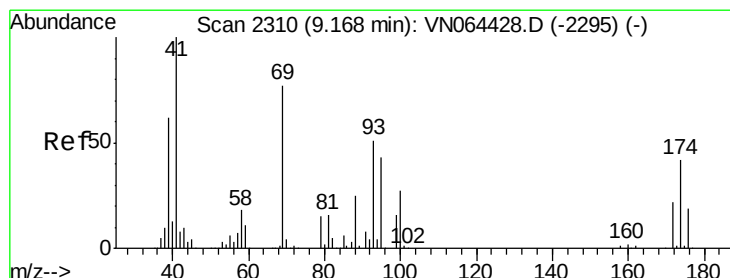
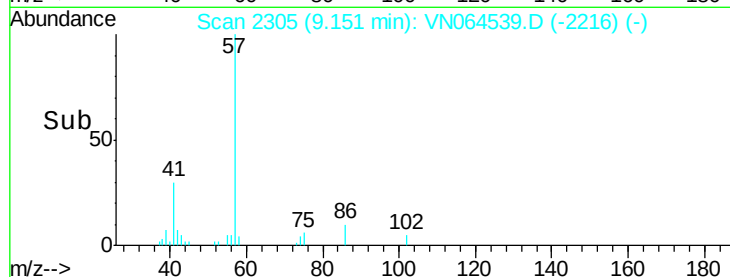
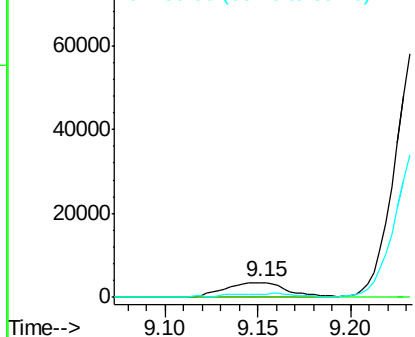
#48
Methvl methacrylate
Concen: 1.878 ug/l
RT: 9.15 min Scan# 2305
Delta R.T. -0.01 min
Lab File: VN064539.D
Acq: 10 Nov 2020 20:38

Instrument :
MSVOA_N
ClientSampleId :
DRUM-2

Tot Ion: 41 Resp: 8224
Ion Ratio Lower Upper
41 100
69 0.0 60.4 90.6#
39 0.0 51.2 76.8#

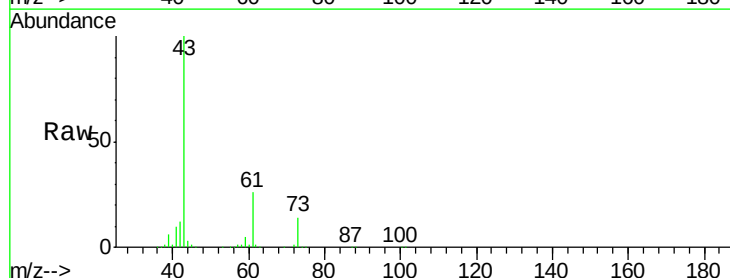


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

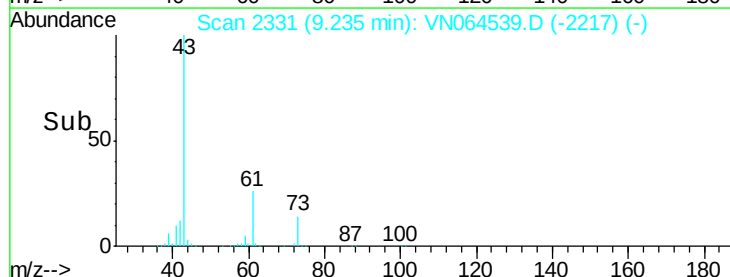
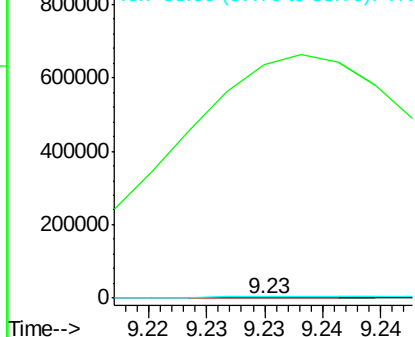


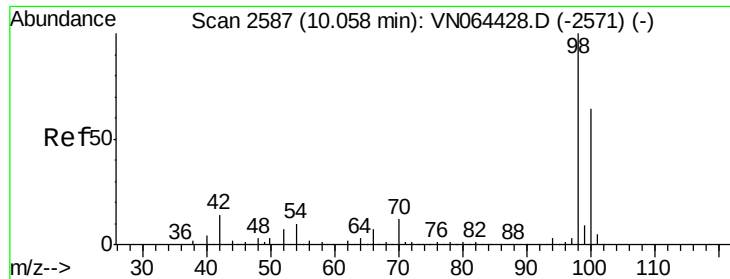
#49
1,4-Dioxane
Concen: 0.520 ug/l
RT: 9.23 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN064539.D
Acq: 10 Nov 2020 20:38

Tgt Ion: 88 Resp: 30
Ion Ratio Lower Upper
88 100
43 4036816.7 31.0 46.6#
58 22756.7 58.4 87.6#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC





#50

Toluene-d8

Concen: 49.612 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064539.D

Acq: 10 Nov 2020 20:38

Instrument :

MSVOA_N

ClientSampled :

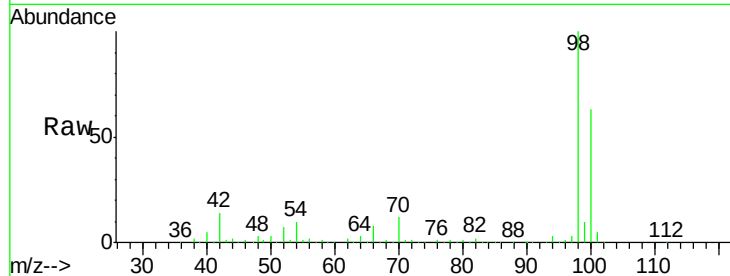
DRUM-2

Tot Ion: 98 Resp: 661911

Ion Ratio Lower Upper

98 100

100 63.1 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.06

400000

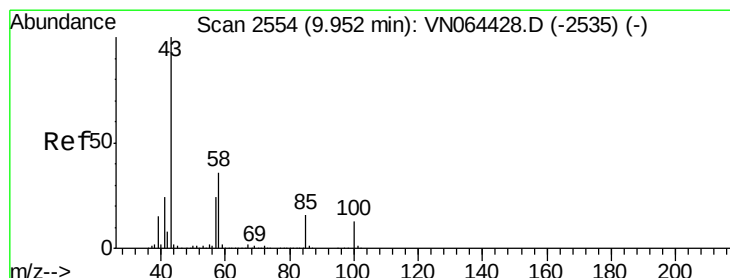
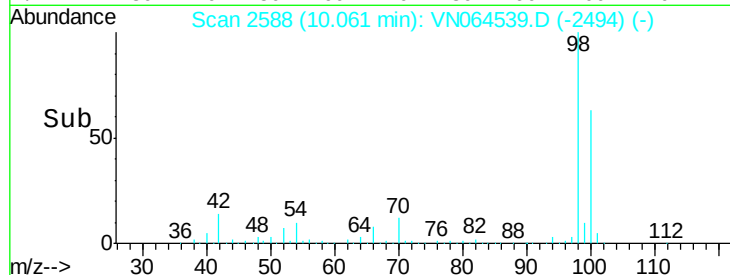
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.017 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN064539.D

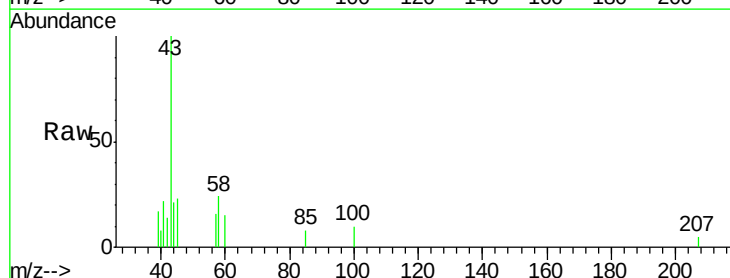
Acq: 10 Nov 2020 20:38

Tgt Ion: 43 Resp: 5146

Ion Ratio Lower Upper

43 100

58 30.7 28.4 42.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.96

4000

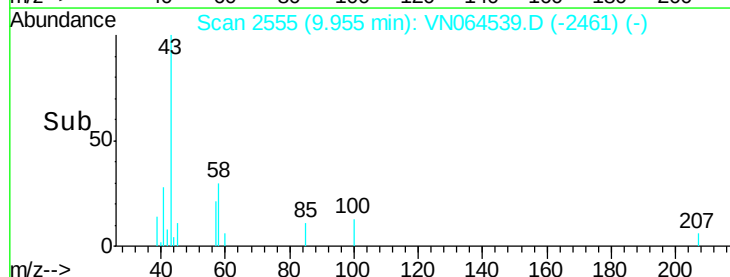
3000

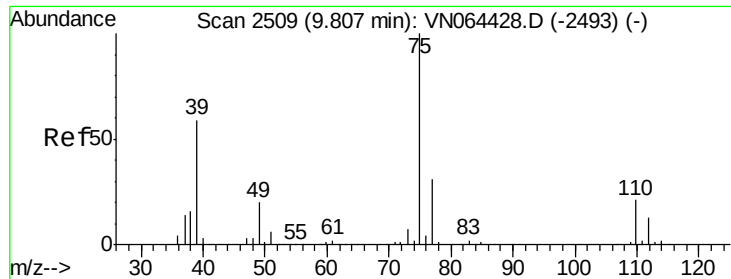
2000

1000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 2.582 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN064539.D

Acq: 10 Nov 2020 20:38

Instrument :

MSVOA_N

ClientSampled :

DRUM-2

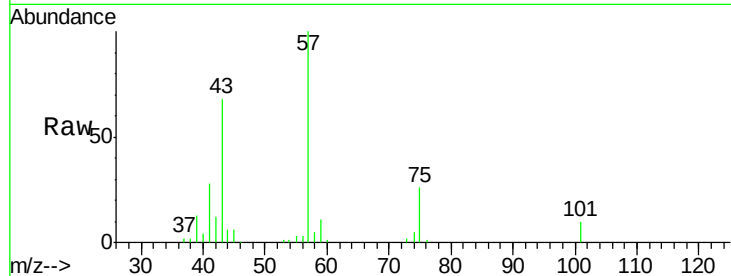
Tot Ion: 75 Resp: 17395

Ion Ratio Lower Upper

75 100

77 0.0 24.9 37.3#

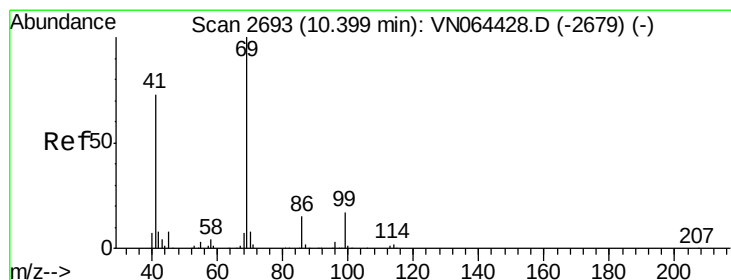
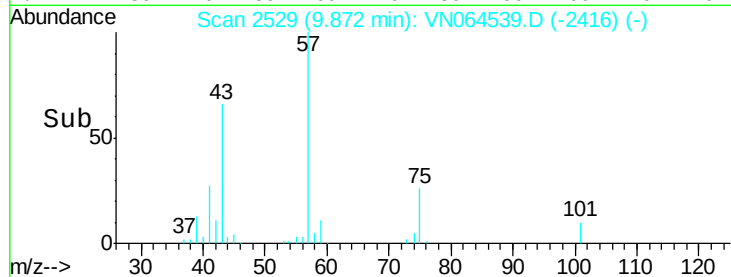
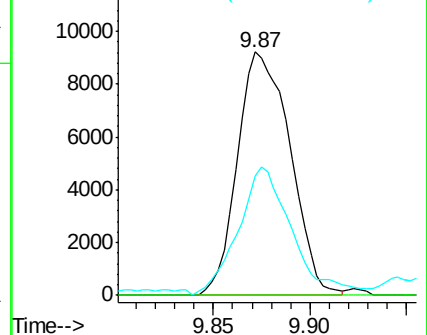
39 49.1 47.1 70.7



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 1.862 ug/l

RT: 10.26 min Scan# 2650

Delta R.T. -0.14 min

Lab File: VN064539.D

Acq: 10 Nov 2020 20:38

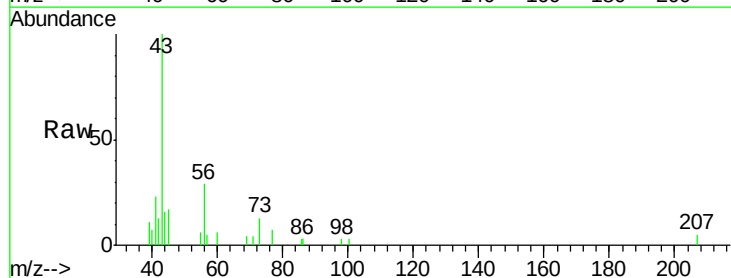
Tgt Ion: 69 Resp: 136

Ion Ratio Lower Upper

69 100

41 2016.2 59.3 88.9#

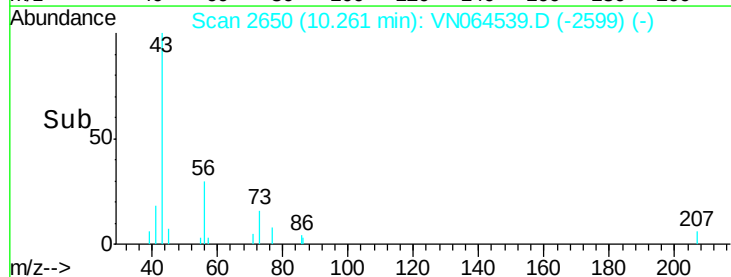
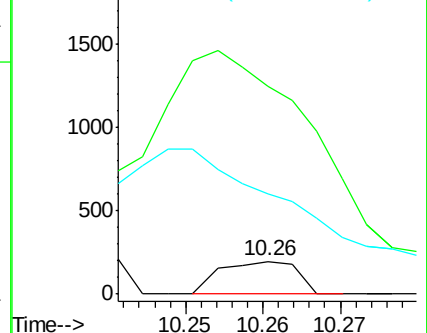
39 1208.8 35.4 53.0#

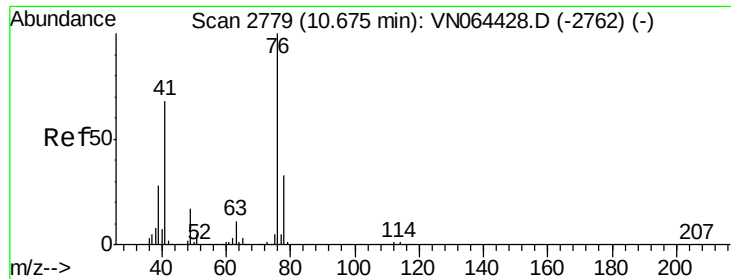


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

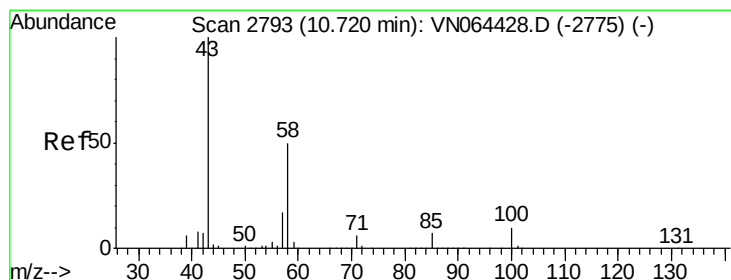
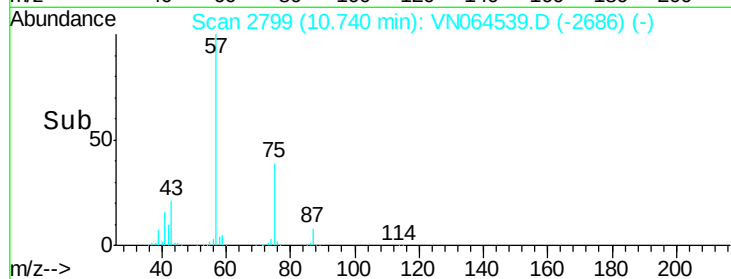
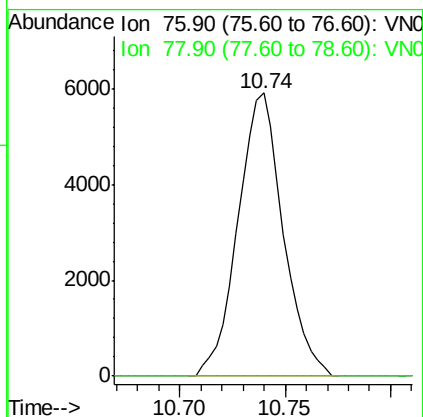
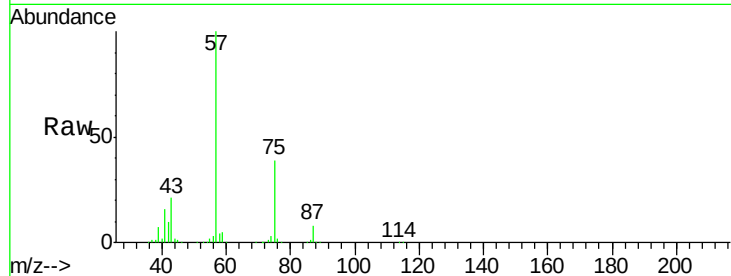




#57
 1,3-Dichloropropane
 Concen: 1.345 ug/l
 RT: 10.74 min Scan# 2799
 Delta R.T. 0.06 min
 Lab File: VN064539.D
 Acq: 10 Nov 2020 20:38

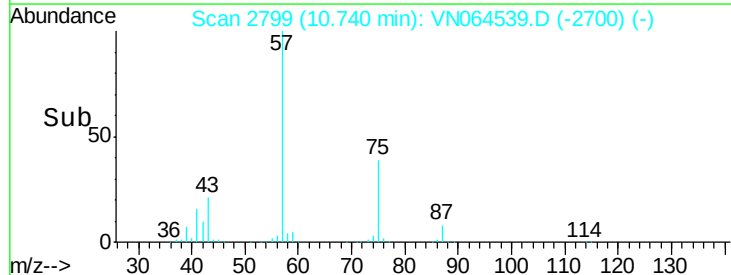
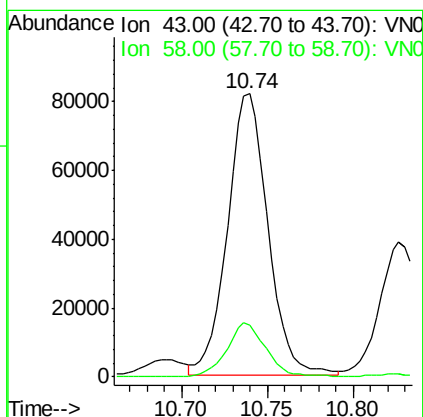
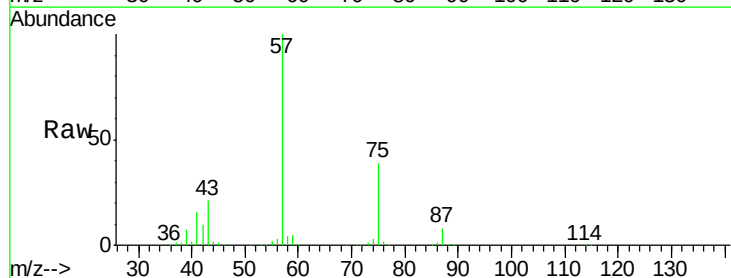
Instrument :
 MSVOA_N
 ClientSampleId :
 DRUM-2

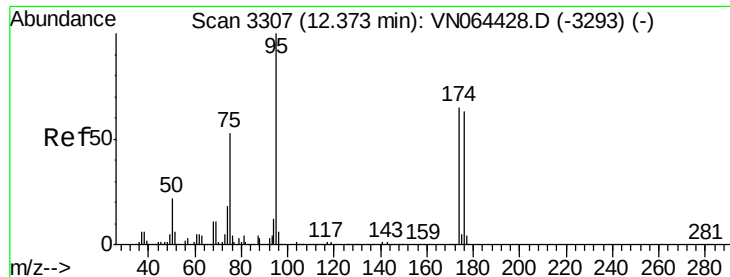
Tot Ion: 76 Resp: 8786
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#



#59
 2-Hexanone
 Concen: 35.998 ug/l
 RT: 10.74 min Scan# 2799
 Delta R.T. 0.02 min
 Lab File: VN064539.D
 Acq: 10 Nov 2020 20:38

Tgt Ion: 43 Resp: 134122
 Ion Ratio Lower Upper
 43 100
 58 18.6 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 48.720 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.01 min

Lab File: VN064539.D

Acq: 10 Nov 2020 20:38

Instrument :

MSVOA_N

ClientSampleId :

DRUM-2

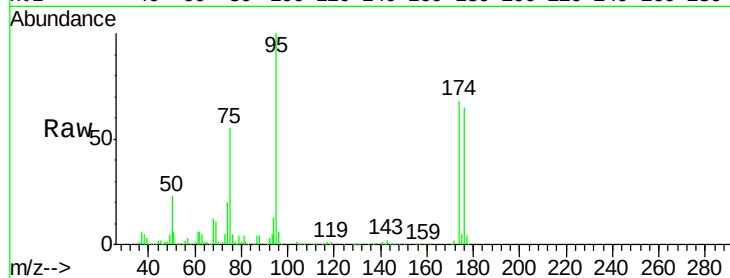
Tot Ion: 95 Resp: 245826

Ion Ratio Lower Upper

95 100

174 69.4 0.0 132.6

176 66.1 0.0 129.2



Abundance Ion 94.90 (94.60 to 95.60): VN064428.D (-3293) (-)

Ion 173.80 (173.50 to 174.50): VN064428.D (-3293) (-)

Ion 175.80 (175.50 to 176.50): VN064428.D (-3293) (-)

12.38

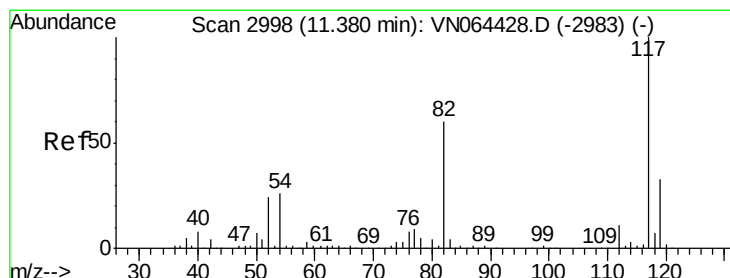
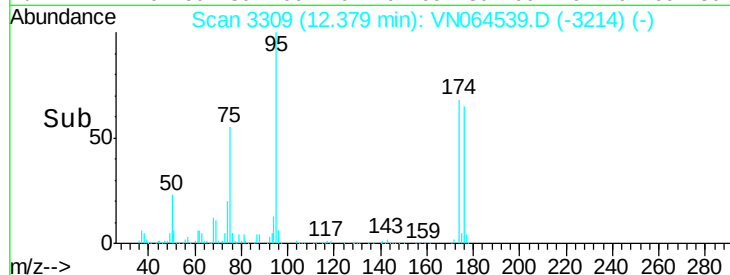
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN064539.D

Acq: 10 Nov 2020 20:38

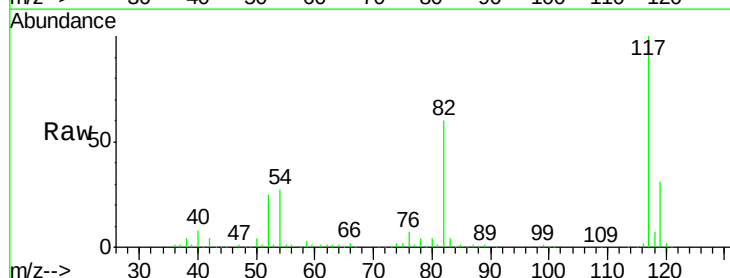
Tgt Ion: 117 Resp: 536469

Ion Ratio Lower Upper

117 100

82 59.9 48.1 72.1

119 31.3 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): VN064428.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN064428.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN064428.D (-2983) (-)

11.38

400000

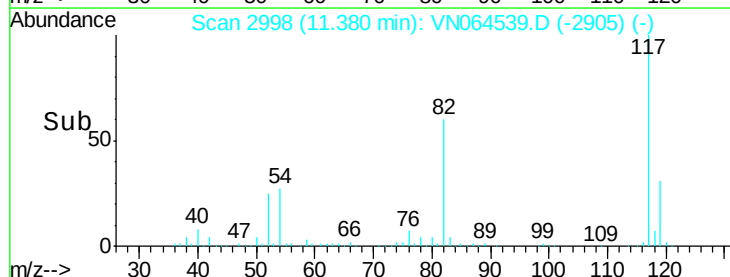
300000

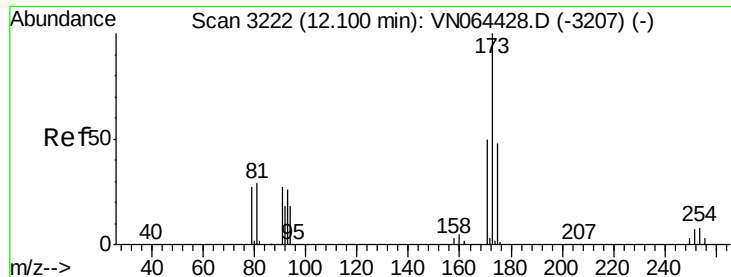
200000

100000

0

Time-->





#71

Bromoform

Concen: 1.650 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN064539.D

Acq: 10 Nov 2020 20:38

Instrument :

MSVOA_N

ClientSampled :

DRUM-2

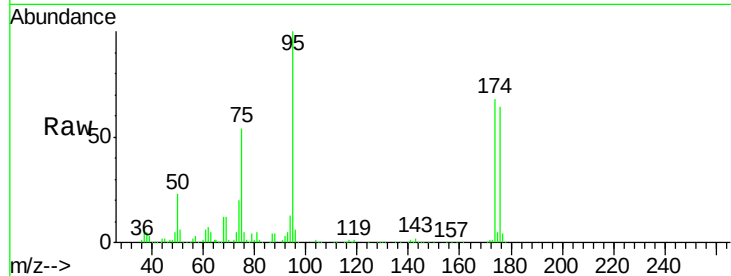
Tot Ion:173 Resp: 1267

Ion Ratio Lower Upper

173 100

175 835.6 23.7 71.1#

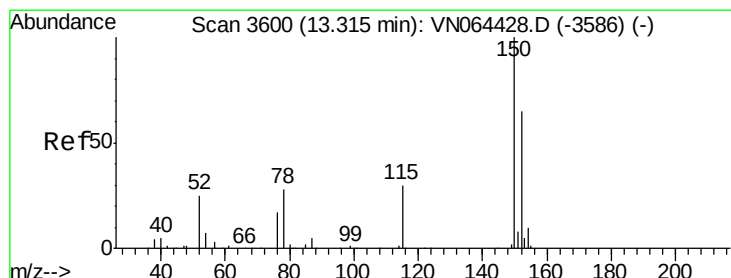
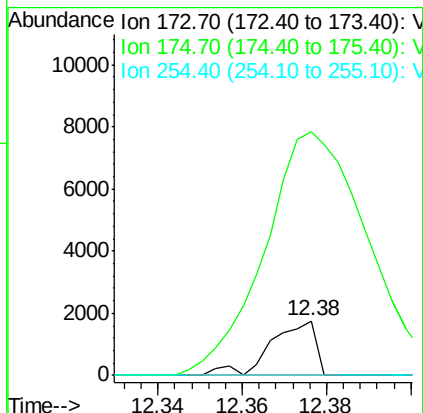
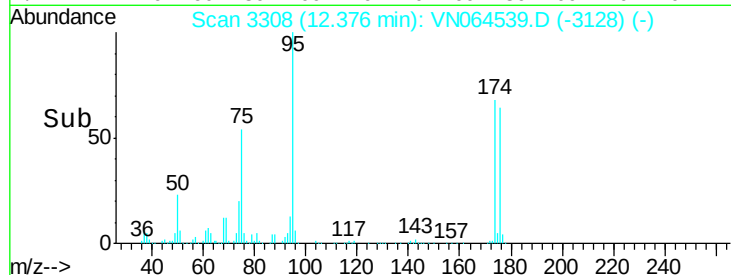
254 0.0 0.0 0.0



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# 3601

Delta R.T. 0.00 min

Lab File: VN064539.D

Acq: 10 Nov 2020 20:38

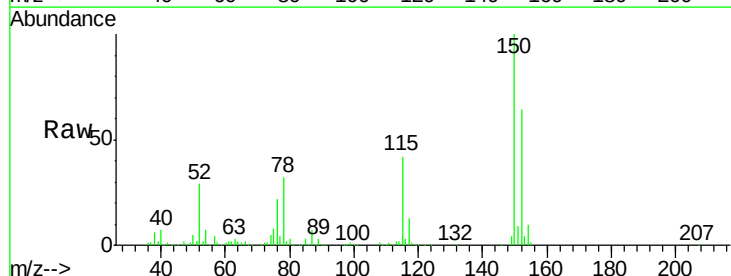
Tgt Ion:152 Resp: 197287

Ion Ratio Lower Upper

152 100

115 65.2 32.0 96.0

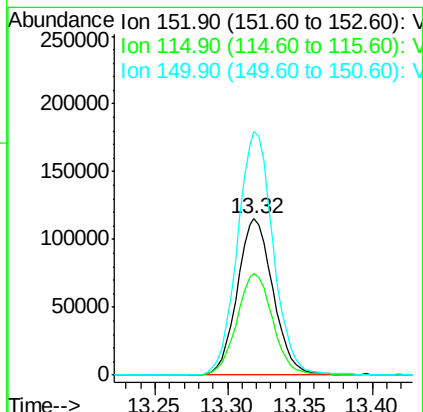
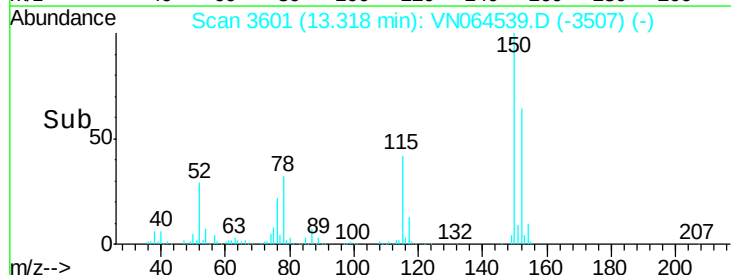
150 155.9 0.0 353.8

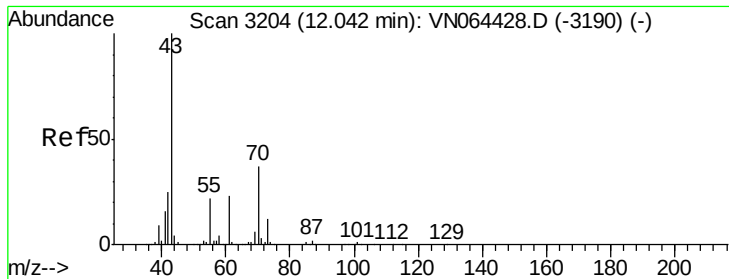


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.304 ug/l

RT: 12.02 min Scan# 3198

Delta R.T. -0.02 min

Lab File: VN064539.D

Acq: 10 Nov 2020 20:38

Instrument :

MSVOA_N

ClientSampleId :

DRUM-2

Tot Ion: 43 Resp: 701

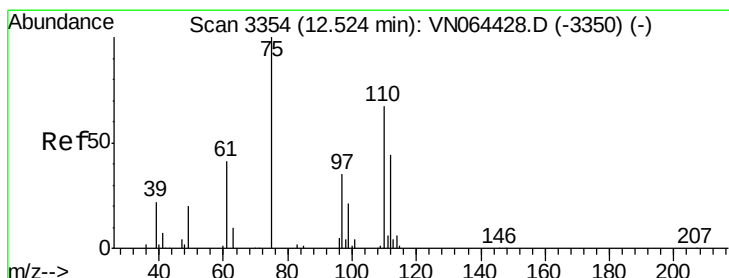
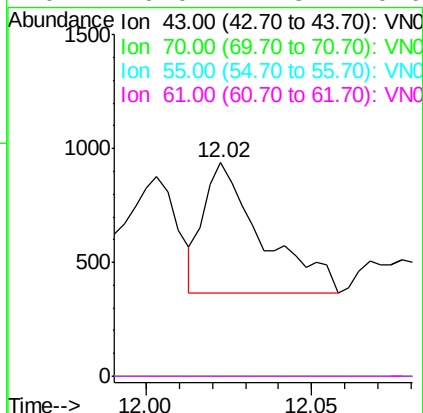
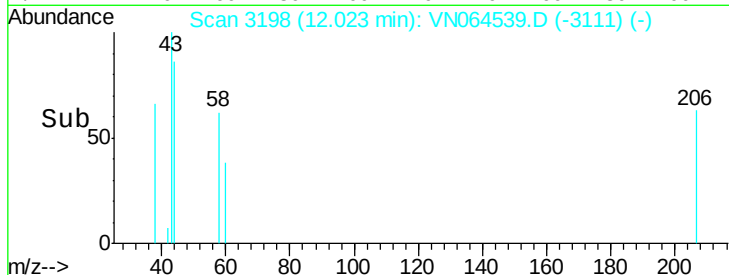
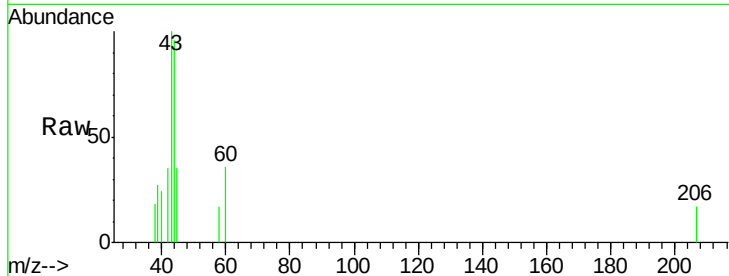
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 0.0 18.4 27.6#

61 0.0 17.8 26.6#



#76

1,2,3-Trichloropropane

Concen: 28.576 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. -0.14 min

Lab File: VN064539.D

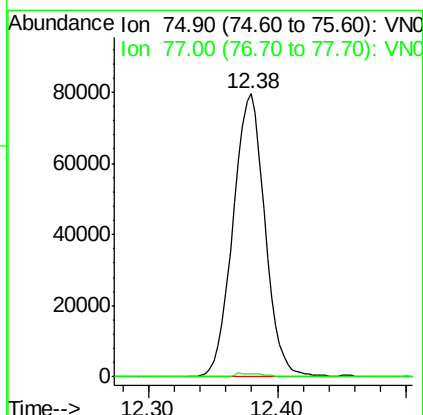
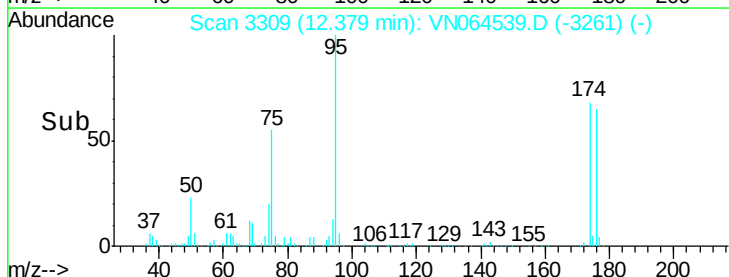
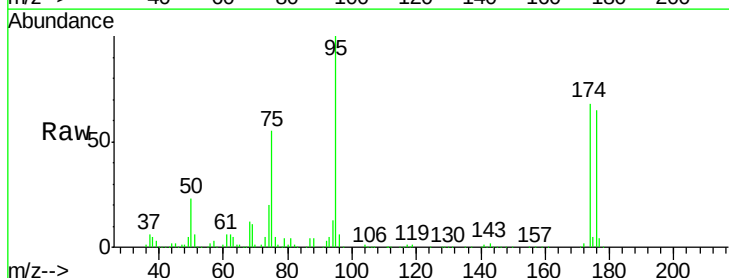
Acq: 10 Nov 2020 20:38

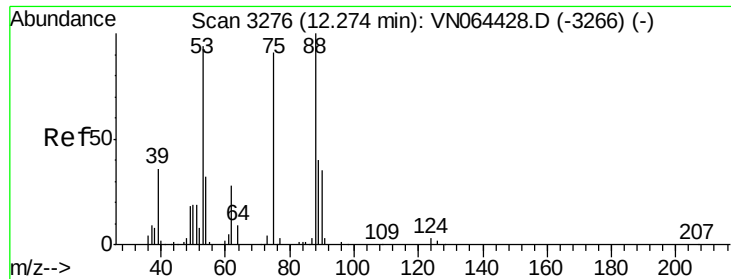
Tgt Ion: 75 Resp: 136596

Ion Ratio Lower Upper

75 100

77 0.6 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 79.787 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.11 min

Lab File: VN064539.D

Acq: 10 Nov 2020 20:38

Instrument :

MSVOA_N

ClientSampled :

DRUM-2

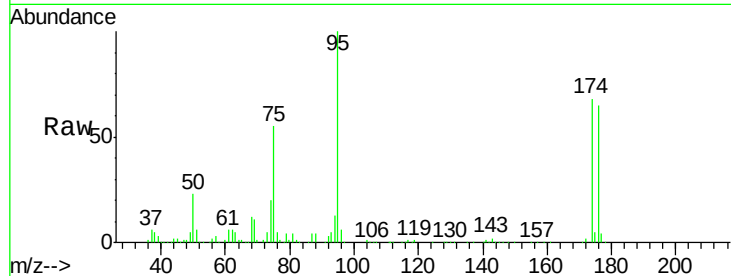
Tot Ion: 75 Resp: 136596

Ion Ratio Lower Upper

75 100

53 0.2 84.0 126.0#

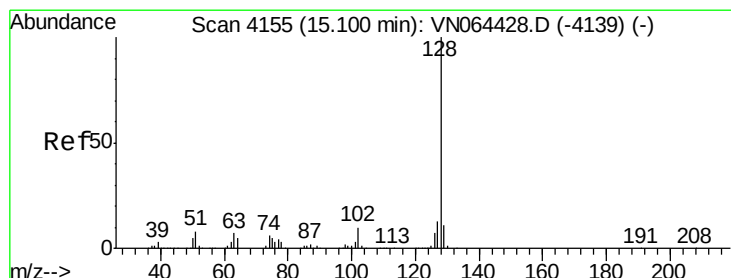
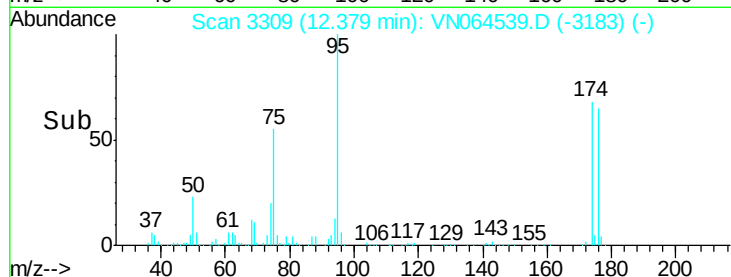
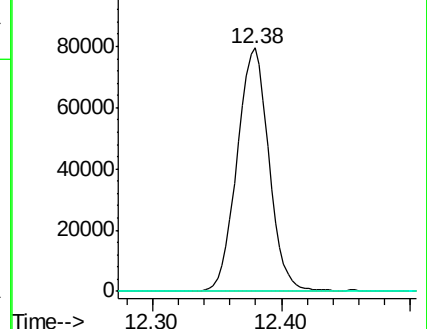
89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VN064428.D (-3266) (-)

Ion 53.00 (52.70 to 53.70): VN064428.D (-3266) (-)

Ion 88.90 (88.60 to 89.60): VN064428.D (-3266) (-)



#95

Naphthalene

Concen: 3.654 ug/l

RT: 15.10 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN064539.D

Acq: 10 Nov 2020 20:38

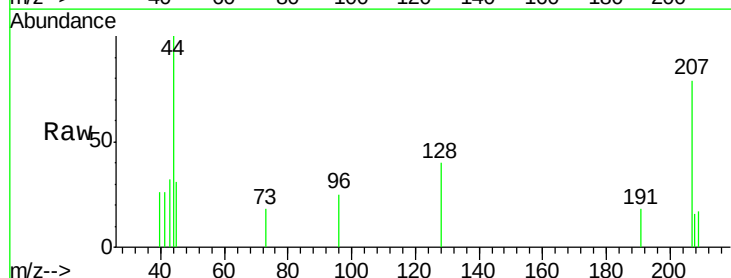
Tgt Ion: 128 Resp: 363

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): VN064428.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN064428.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN064428.D (-4139) (-)

