

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120420\
 Data File : VN064915.D
 Acq On : 4 Dec 2020 13:40
 Operator : JC/MD
 Sample : L4936-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VNJ-214

Quant Time: Dec 05 01:27:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112320W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 23 13:54:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	175906	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	307447	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	330586	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	148016	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	106768	52.21	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	104.42%		
35) Dibromofluoromethane	7.55	113	96962	52.71	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	105.42%		
50) Toluene-d8	10.06	98	394312	52.46	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	104.92%		
62) 4-Bromofluorobenzene	12.38	95	156722	58.26	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	116.52%		

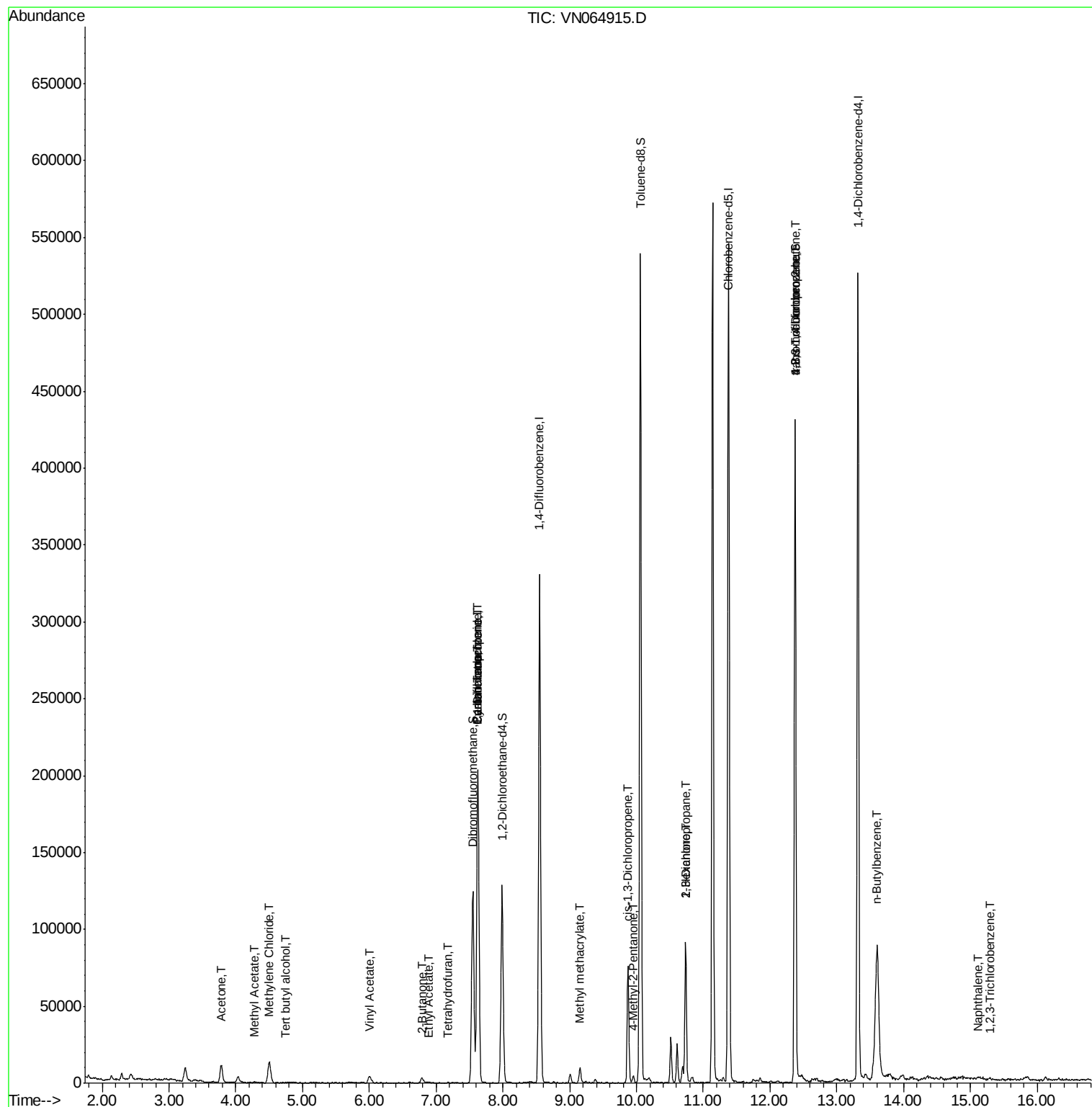
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	137	0.430	ug/l #	73
16) Acetone	3.78	43	20451	30.421	ug/l	99
18) Methyl Acetate	4.28	43	1186	0.587	ug/l #	50
20) Methylene Chloride	4.50	84	10888	5.169	ug/l	96
23) Vinyl Acetate	6.00	43	979	0.217	ug/l #	71
25) 2-Butanone	6.78	43	1153	1.058	ug/l	96
29) Tetrahydrofuran	7.17	42	255	0.339	ug/l #	32
31) Cyclohexane	7.62	56	2889	1.014	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	12070	4.235	ug/l #	49
37) Ethyl Acetate	6.89	43	750	0.273	ug/l #	66
38) Carbon Tetrachloride	7.63	117	16220	5.470	ug/l #	16
48) Methyl methacrylate	9.14	41	2944	1.395	ug/l #	20
51) 4-Methyl-2-Pentanone	9.95	43	2714	1.023	ug/l	87
54) cis-1,3-Dichloropropene	9.87	75	14384	3.963	ug/l #	65
57) 1,3-Dichloropropane	10.74	76	916	0.251	ug/l #	42
59) 2-Hexanone	10.74	43	13370	7.006	ug/l #	55
76) 1,2,3-Trichloropropane	12.38	75	73122	22.939	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	73122	62.871	ug/l #	15
89) n-Butylbenzene	13.59	91	2262	0.297	ug/l	95
95) Naphthalene	15.11	128	2259	0.252	ug/l #	82
96) 1,2,3-Trichlorobenzene	15.29	180	167	1.449	ug/l	88

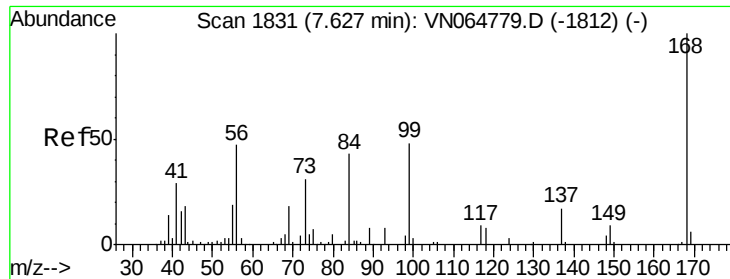
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Nov 23 13:54:12 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN064915.D

Acq: 4 Dec 2020 13:40

Instrument :

MSVOA_N

ClientSampleId :

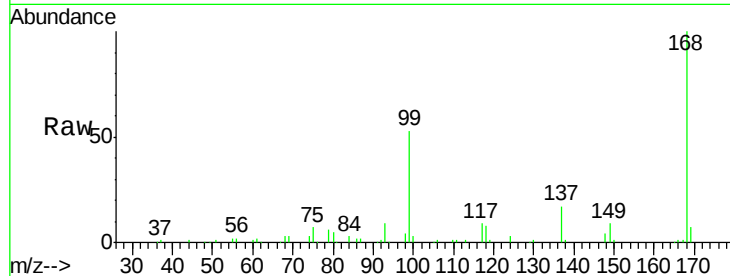
VNJ-214

Tot Ion:168 Resp: 175906

Ion Ratio Lower Upper

168 100

99 52.7 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.62

80000

60000

40000

20000

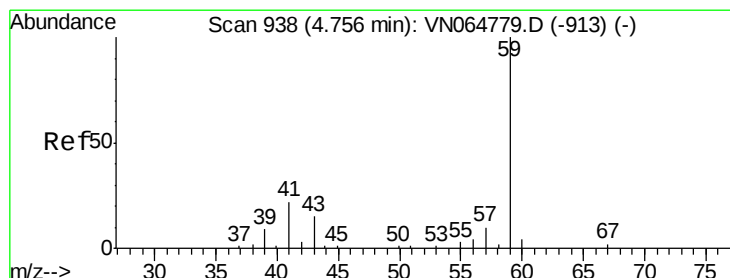
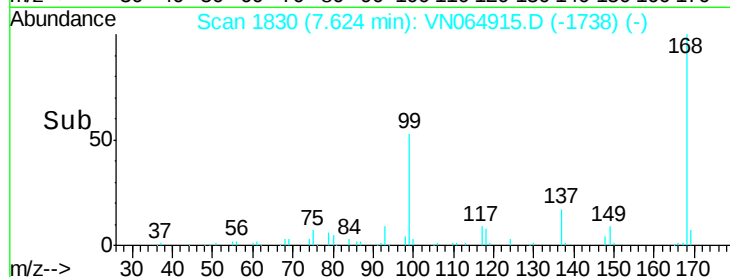
0

Time-->

7.50

7.60

7.70



#11

Tert butyl alcohol

Concen: 0.430 ug/l

RT: 4.74 min Scan# 934

Delta R.T. -0.01 min

Lab File: VN064915.D

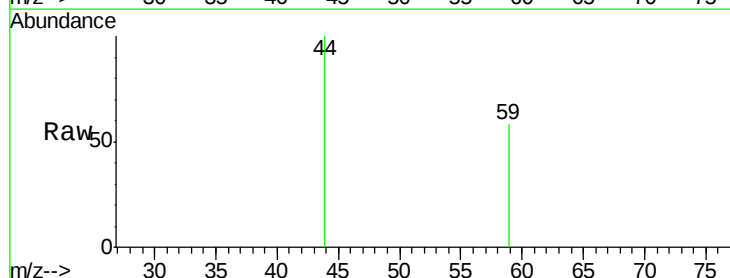
Acq: 4 Dec 2020 13:40

Tgt Ion: 59 Resp: 137

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.74

200

150

100

50

0

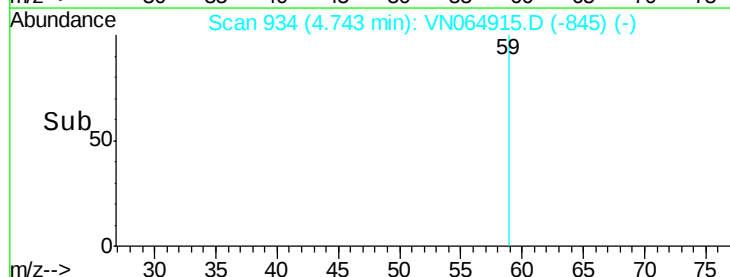
Time-->

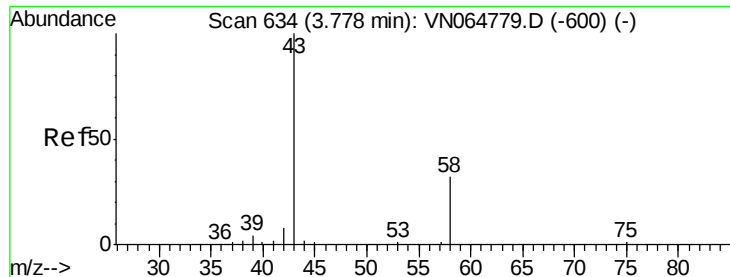
4.73

4.74

4.75

4.76





#16

Acetone

Concen: 30.421 ug/l

RT: 3.78 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN064915.D

Acq: 4 Dec 2020 13:40

Instrument :

MSVOA_N

ClientSampleId :

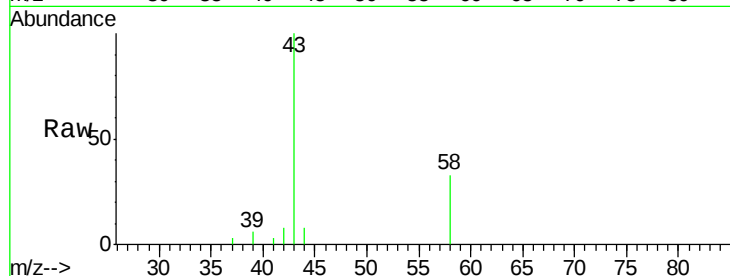
VNJ-214

Tot Ion: 43 Resp: 20451

Ion Ratio Lower Upper

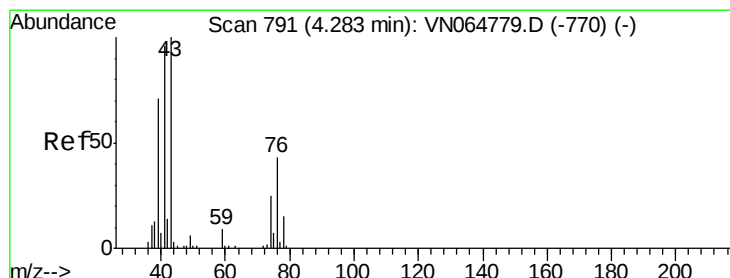
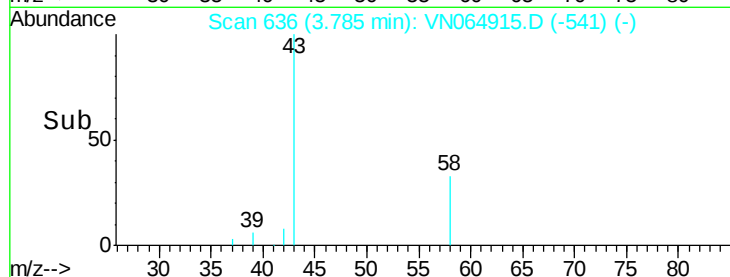
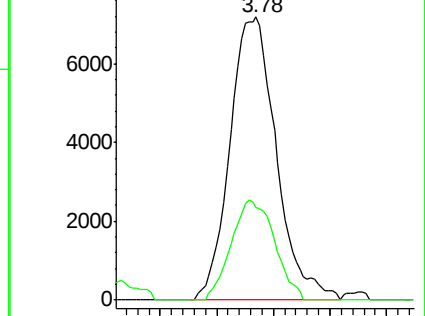
43 100

58 32.6 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN064915.D (-541) (-)

Ion 58.00 (57.70 to 58.70): VN064915.D (-541) (-)



#18

Methyl Acetate

Concen: 0.587 ug/l

RT: 4.28 min Scan# 791

Delta R.T. 0.00 min

Lab File: VN064915.D

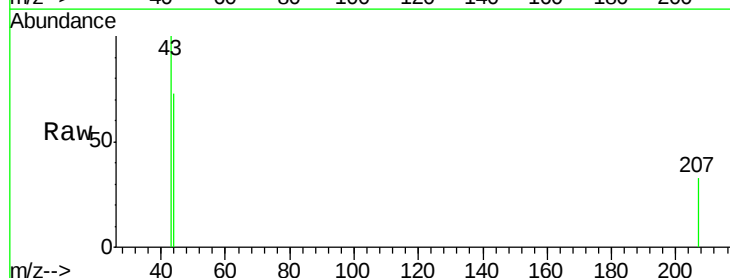
Acq: 4 Dec 2020 13:40

Tgt Ion: 43 Resp: 1186

Ion Ratio Lower Upper

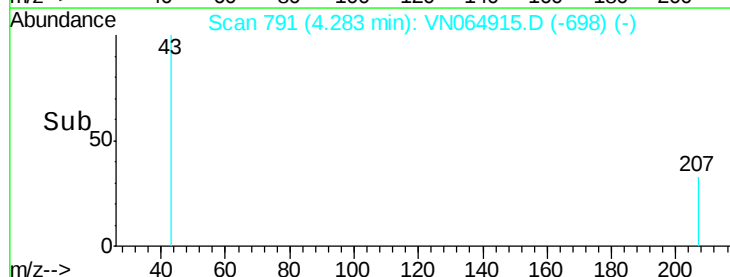
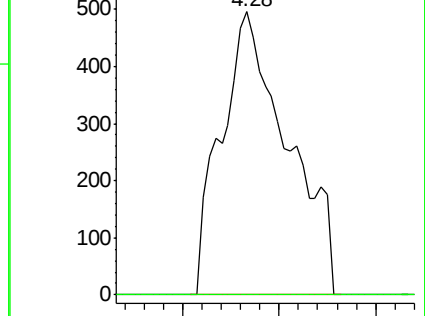
43 100

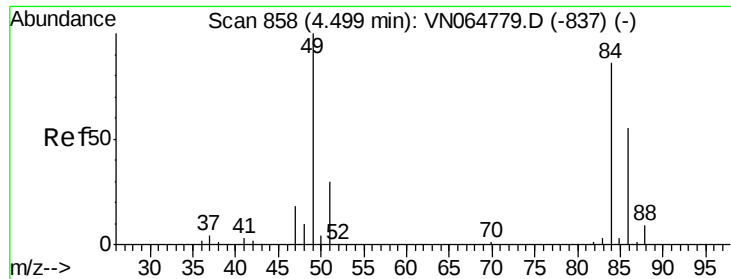
74 0.0 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VN064915.D (-698) (-)

Ion 74.00 (73.70 to 74.70): VN064915.D (-698) (-)

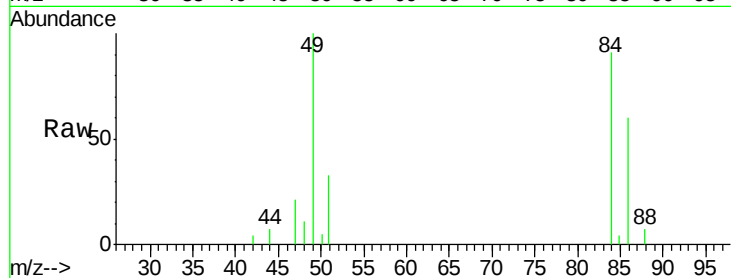




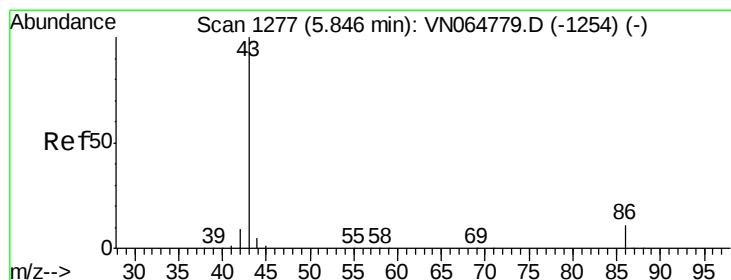
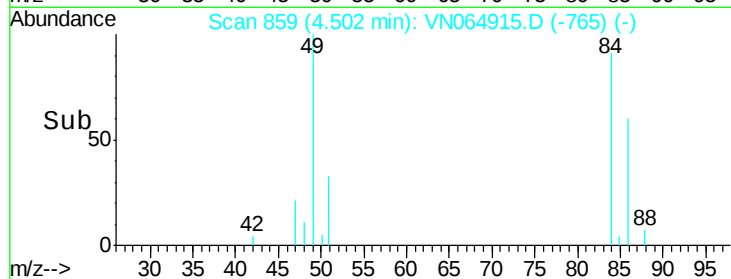
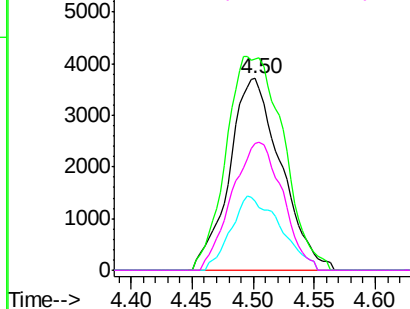
#20
Methvlene Chloride
Concen: 5.169 ug/l
RT: 4.50 min Scan# 859
Delta R.T. 0.00 min
Lab File: VN064915.D
Acq: 4 Dec 2020 13:40

Instrument :
MSVOA_N
ClientSampled :
VNJ-214

Tot Ion:	84	Resp:	10888
Ion	Ratio	Lower	Upper
84	100		
49	110.1	93.4	140.0
51	36.0	28.2	42.4
86	65.9	51.7	77.5

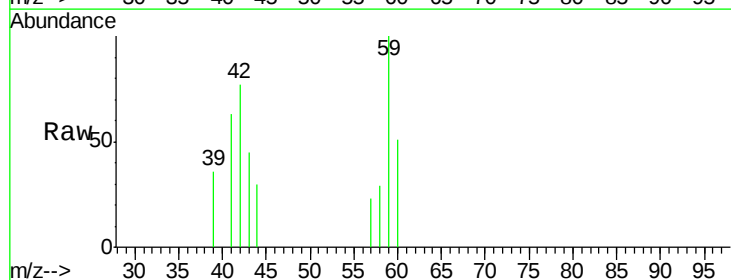


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

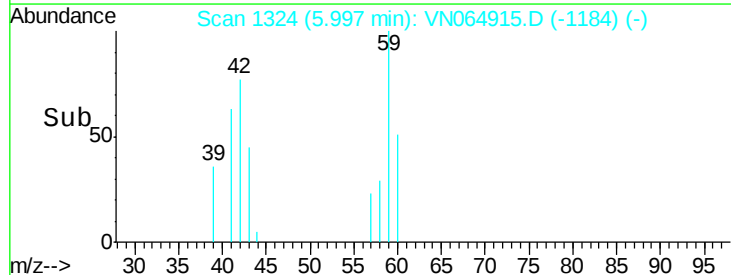
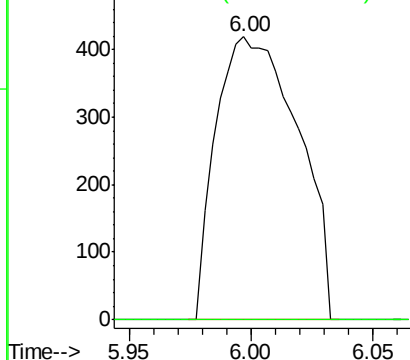


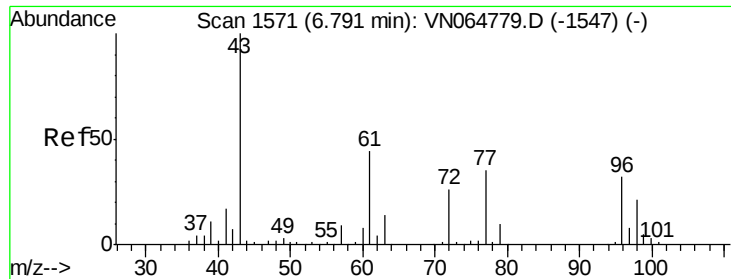
#23
Vinyl Acetate
Concen: 0.217 ug/l
RT: 6.00 min Scan# 1324
Delta R.T. 0.15 min
Lab File: VN064915.D
Acq: 4 Dec 2020 13:40

Tgt Ion:	43	Resp:	979
Ion	Ratio	Lower	Upper
43	100		
86	0.0	8.9	13.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 86.00 (85.70 to 86.70): VN0

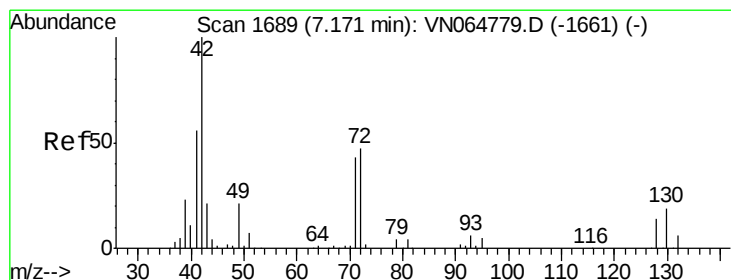
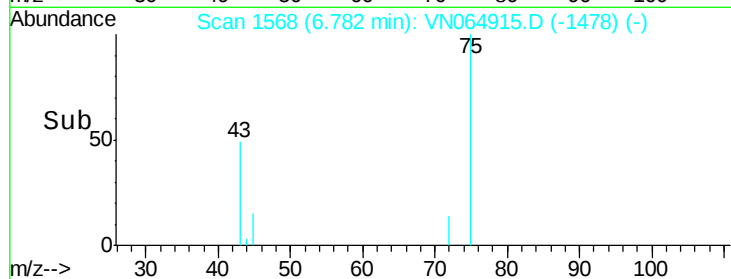
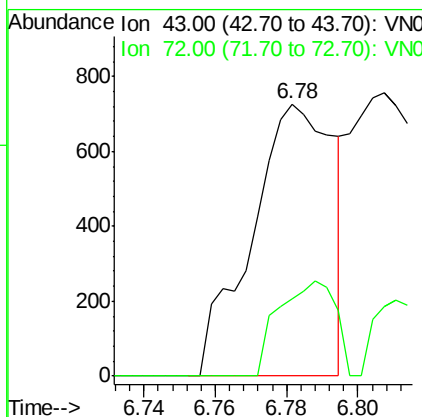
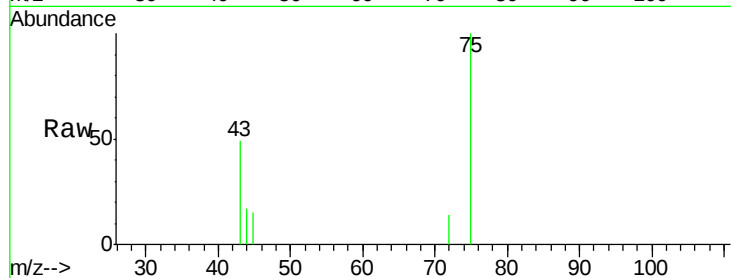




#25
2-Butanone
Concen: 1.058 ug/l
RT: 6.78 min Scan# 1568
Delta R.T. -0.01 min
Lab File: VN064915.D
Acq: 4 Dec 2020 13:40

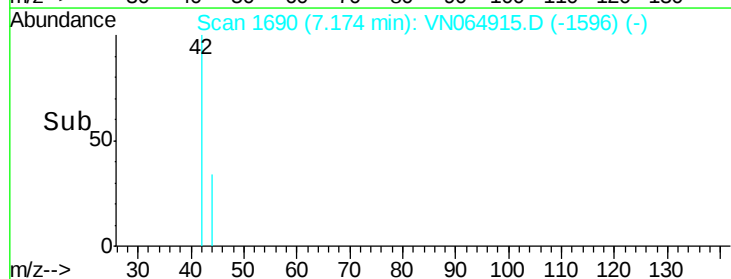
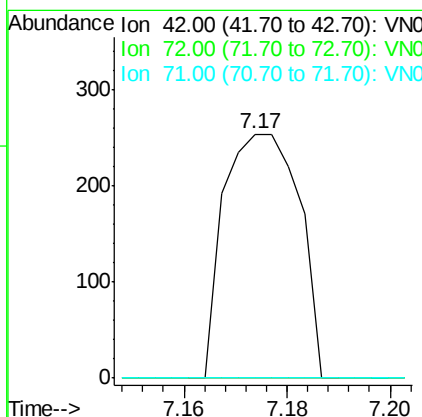
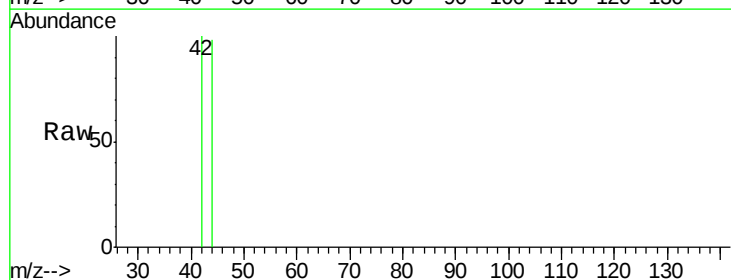
Instrument :
MSVOA_N
ClientSampled :
VNJ-214

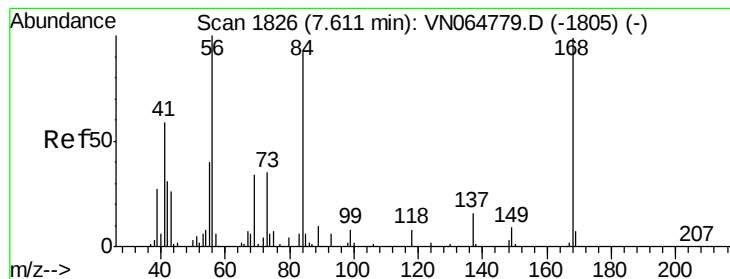
Tot Ion: 43 Resp: 1153
Ion Ratio Lower Upper
43 100
72 28.2 21.0 31.6



#29
Tetrahydrofuran
Concen: 0.339 ug/l
RT: 7.17 min Scan# 1690
Delta R.T. 0.00 min
Lab File: VN064915.D
Acq: 4 Dec 2020 13:40

Tgt Ion: 42 Resp: 255
Ion Ratio Lower Upper
42 100
72 0.0 36.6 54.8#
71 0.0 33.6 50.4#





#31

Cyclohexane

Concen: 1.014 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN064915.D

Acq: 4 Dec 2020 13:40

Instrument :

MSVOA_N

ClientSampled :

VNJ-214

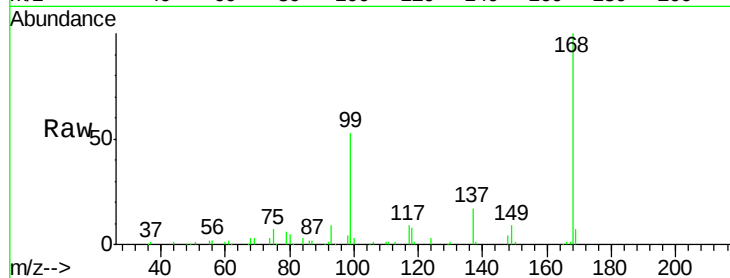
Tot Ion: 56 Resp: 2889

Ion Ratio Lower Upper

56 100

69 196.8 27.5 41.3#

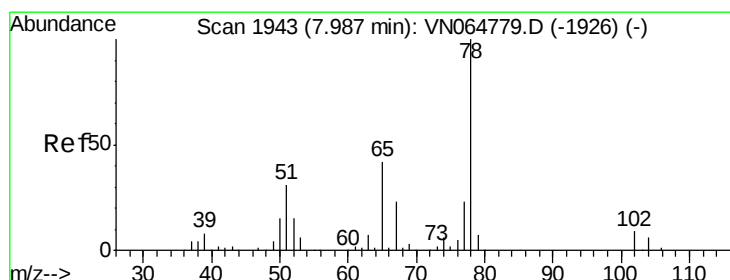
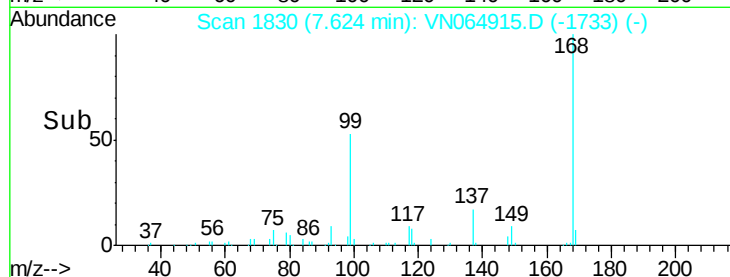
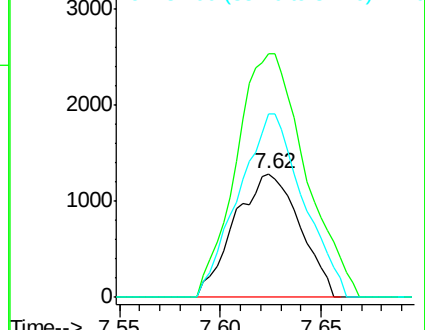
84 148.8 73.9 110.9#



Abundance Ion 56.00 (55.70 to 56.70): VN064915.D (-1733) (-)

Ion 69.00 (68.70 to 69.70): VN064915.D (-1733) (-)

Ion 84.00 (83.70 to 84.70): VN064915.D (-1733) (-)



#33

1,2-Dichloroethane-d4

Concen: 52.209 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064915.D

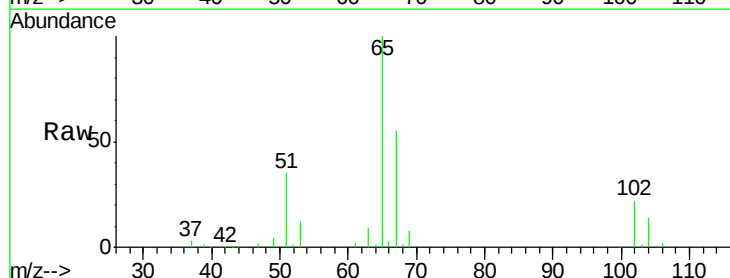
Acq: 4 Dec 2020 13:40

Tgt Ion: 65 Resp: 106768

Ion Ratio Lower Upper

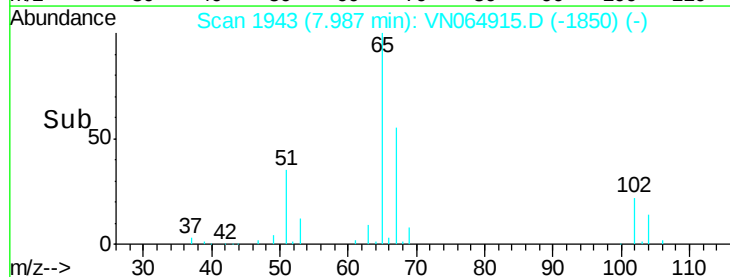
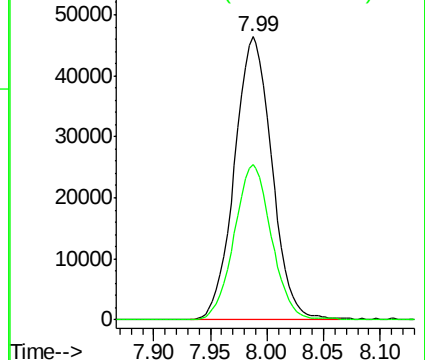
65 100

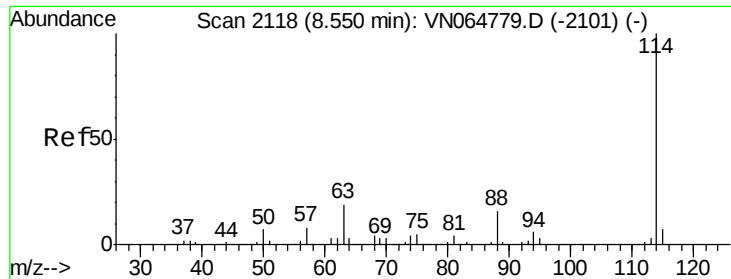
67 54.5 0.0 108.2



Abundance Ion 64.90 (64.60 to 65.60): VN064915.D (-1850) (-)

Ion 66.90 (66.60 to 67.60): VN064915.D (-1850) (-)

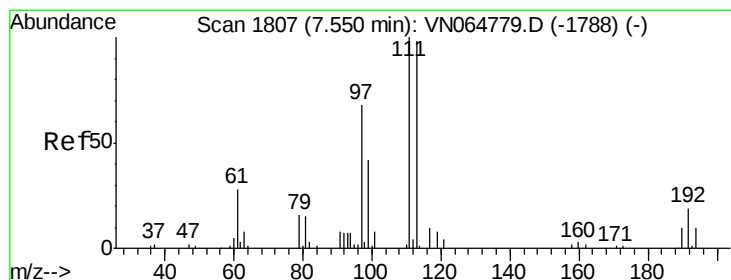
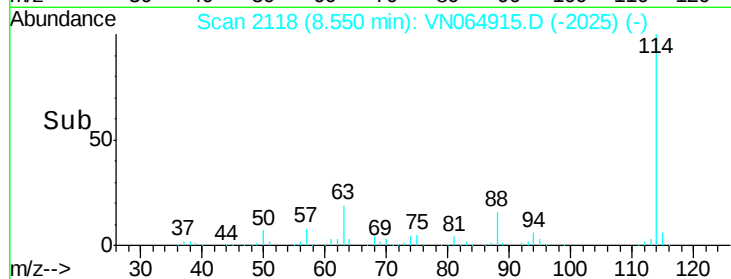
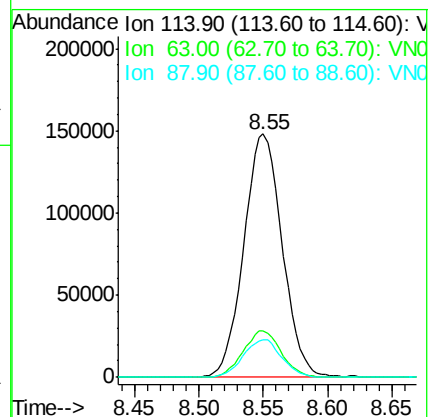
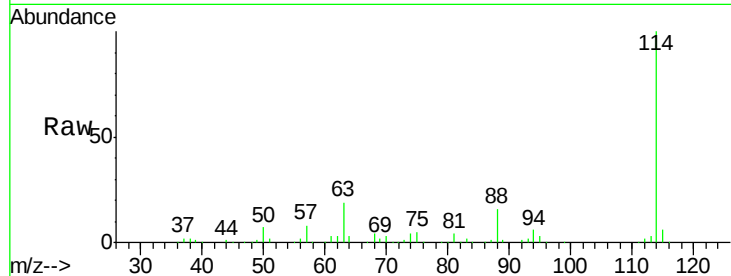




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2118
Delta R.T. -0.00 min
Lab File: VN064915.D
Acq: 4 Dec 2020 13:40

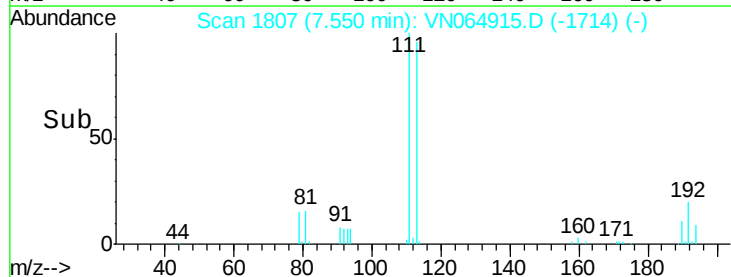
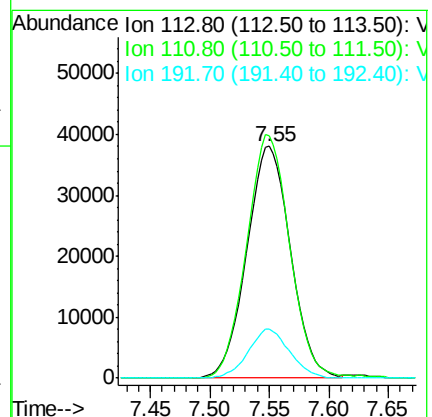
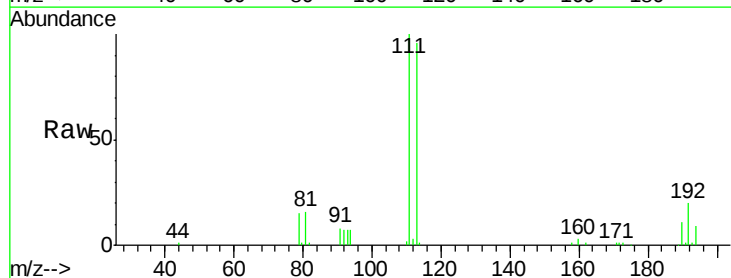
Instrument :
MSVOA_N
ClientSampleId :
VNJ-214

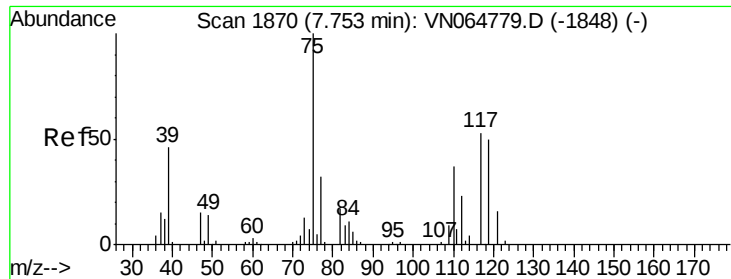
Tot Ion	Ratio	Lower	Upper
114	100		
63	18.9	0.0	38.6
88	15.6	0.0	32.6



#35
Dibromofluoromethane
Concen: 52.706 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN064915.D
Acq: 4 Dec 2020 13:40

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.6	122.4
192	19.9	16.2	24.2





#36

1,1-Dichloropropene

Concen: 4.235 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN064915.D

Acq: 4 Dec 2020 13:40

Instrument :

MSVOA_N

ClientSampleId :

VNJ-214

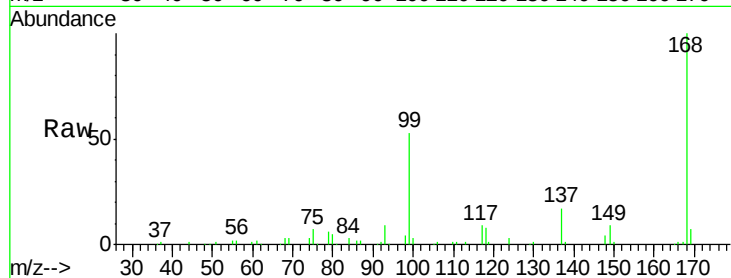
Tot Ion: 75 Resp: 12070

Ion Ratio Lower Upper

75 100

110 8.5 17.8 53.3#

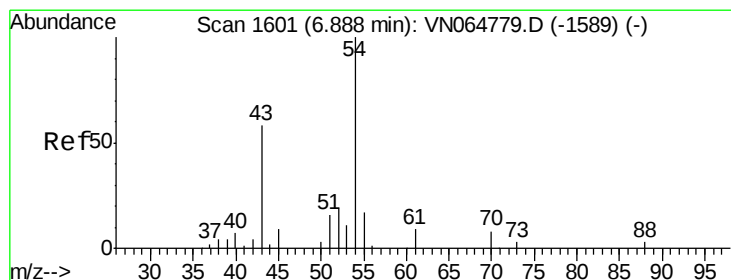
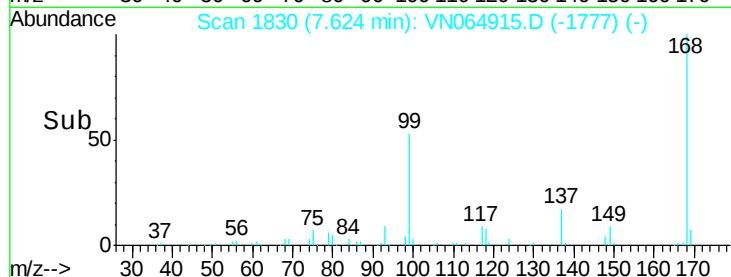
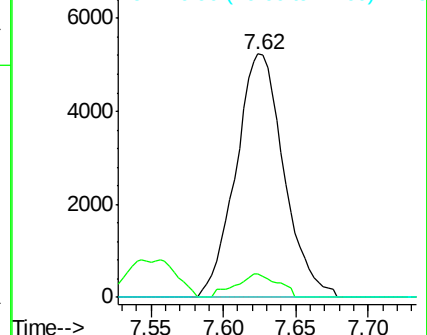
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#37

Ethyl Acetate

Concen: 0.273 ug/l

RT: 6.89 min Scan# 1601

Delta R.T. 0.00 min

Lab File: VN064915.D

Acq: 4 Dec 2020 13:40

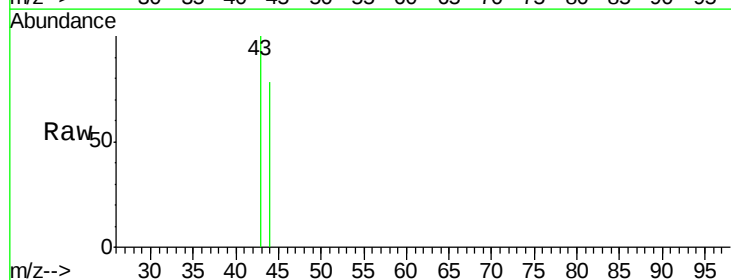
Tgt Ion: 43 Resp: 750

Ion Ratio Lower Upper

43 100

61 0.0 12.8 19.2#

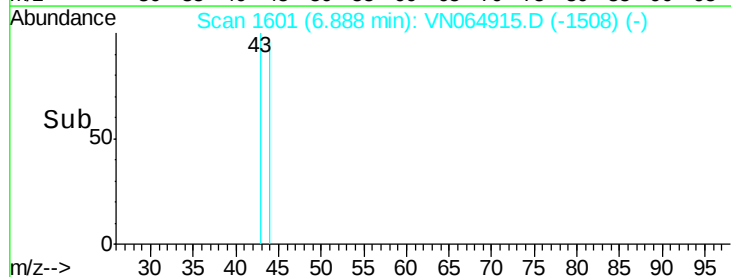
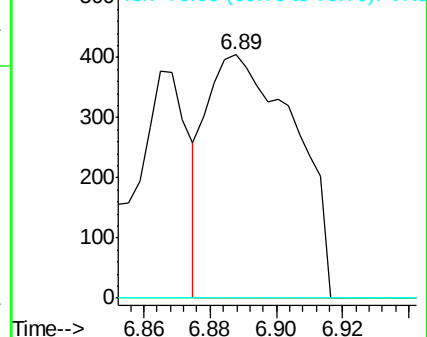
70 0.0 8.8 13.2#

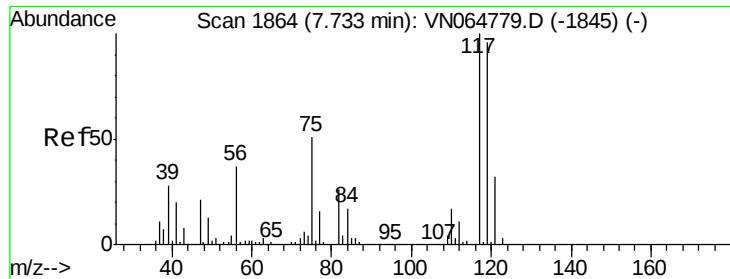


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0

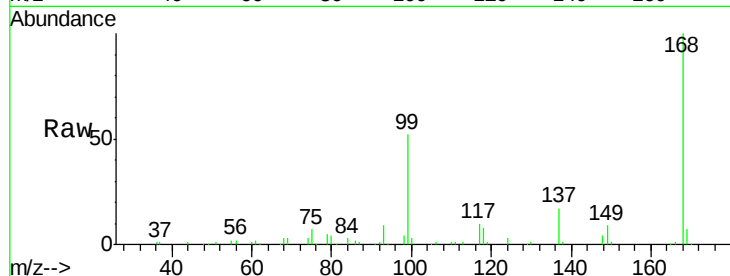




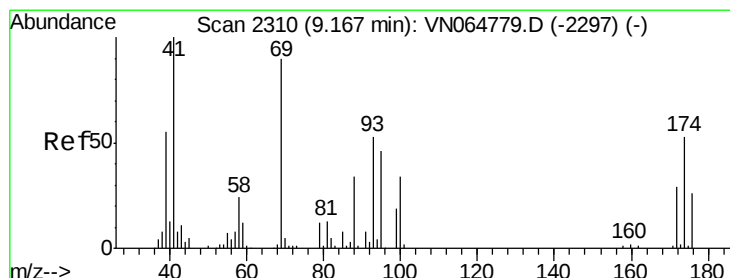
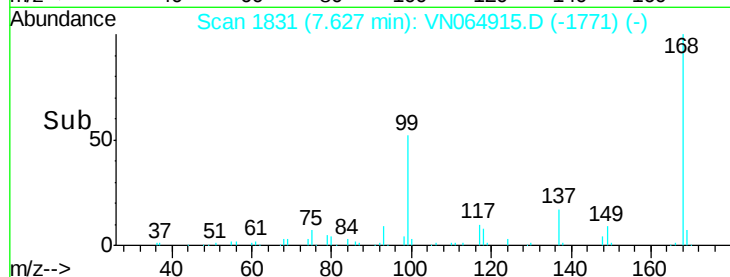
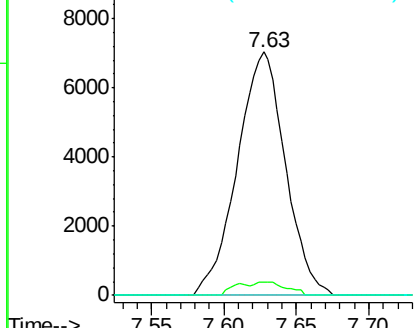
#38
Carbon Tetrachloride
Concen: 5.470 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN064915.D
Acq: 4 Dec 2020 13:40

Instrument :
MSVOA_N
ClientSampled :
VNJ-214

Tot Ion:117 Resp: 16220
Ion Ratio Lower Upper
117 100
119 5.3 76.7 115.1#
121 0.0 25.4 38.2#

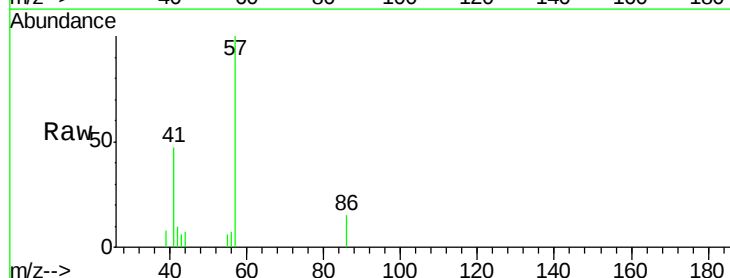


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

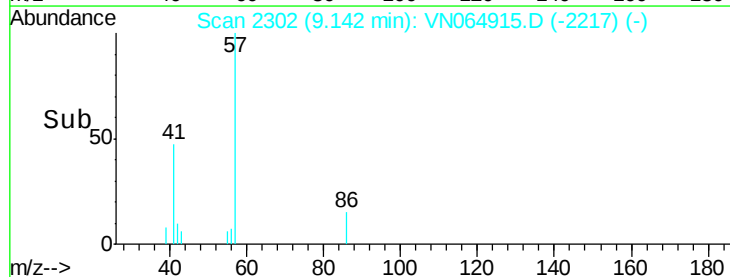
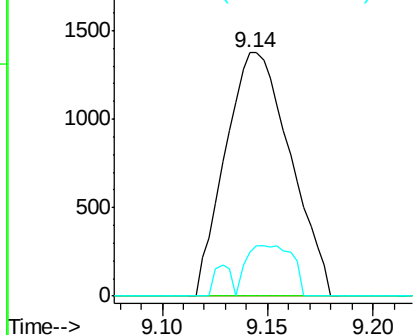


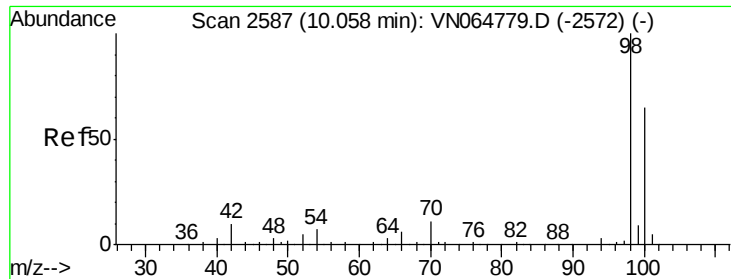
#48
Methyl methacrylate
Concen: 1.395 ug/l
RT: 9.14 min Scan# 2302
Delta R.T. -0.03 min
Lab File: VN064915.D
Acq: 4 Dec 2020 13:40

Tgt Ion: 41 Resp: 2944
Ion Ratio Lower Upper
41 100
69 0.0 71.8 107.8#
39 14.8 44.1 66.1#



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





#50

Toluene-d8

Concen: 52.458 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064915.D

Acq: 4 Dec 2020 13:40

Instrument :

MSVOA_N

ClientSampled :

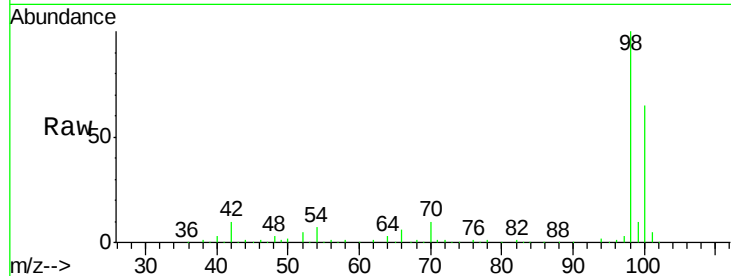
VNJ-214

Tot Ion: 98 Resp: 394312

Ion Ratio Lower Upper

98 100

100 64.3 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN064779.D (-2572) (-)

Ion 100.00 (99.70 to 100.70): VN064779.D (-2572) (-)

10.06

200000

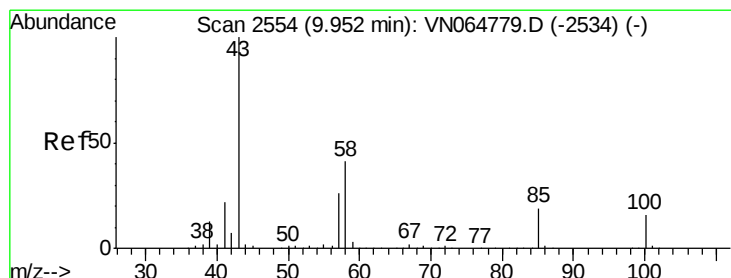
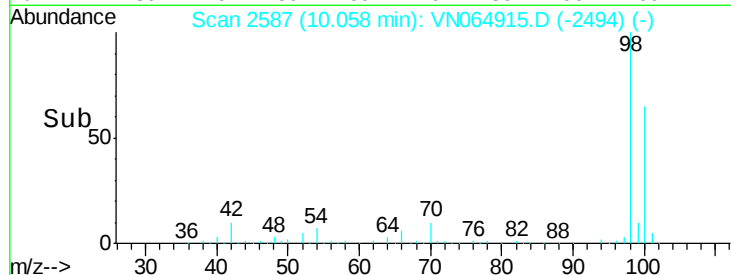
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.023 ug/l

RT: 9.95 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN064915.D

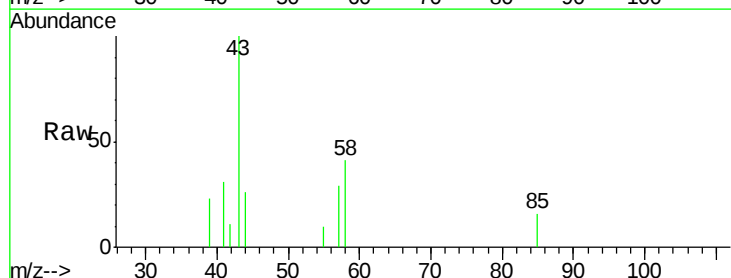
Acq: 4 Dec 2020 13:40

Tgt Ion: 43 Resp: 2714

Ion Ratio Lower Upper

43 100

58 48.3 32.4 48.6



Abundance Ion 43.00 (42.70 to 43.70): VN064779.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN064779.D (-2534) (-)

9.95

12000

10000

8000

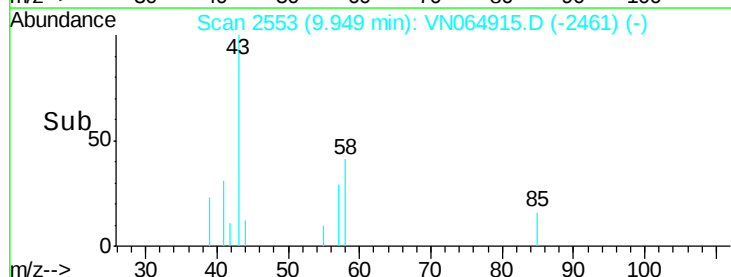
6000

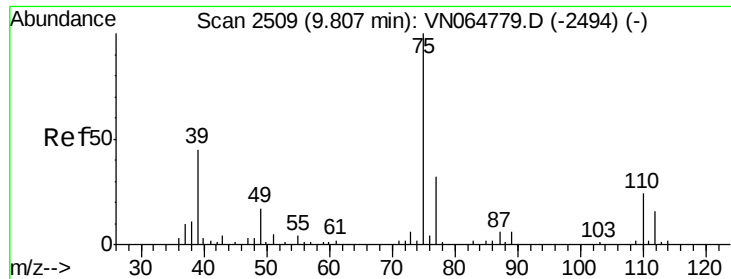
4000

2000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 3.963 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN064915.D

Acq: 4 Dec 2020 13:40

Instrument :

MSVOA_N

ClientSampled :

VNJ-214

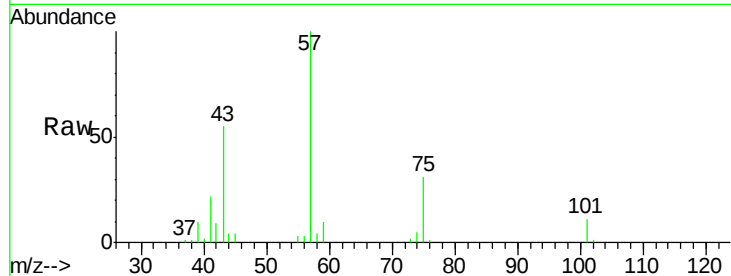
Tot Ion: 75 Resp: 14384

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

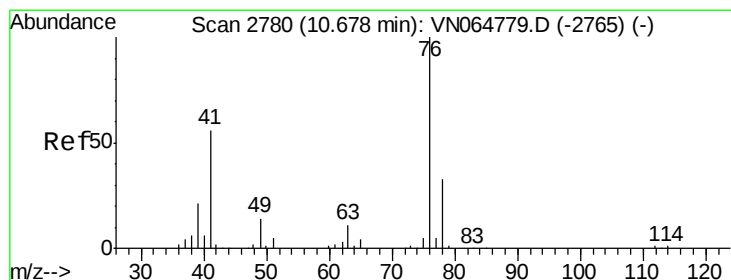
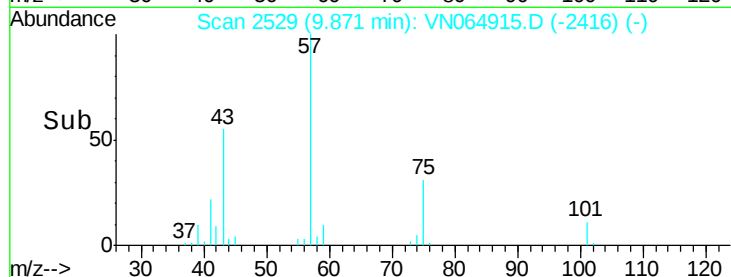
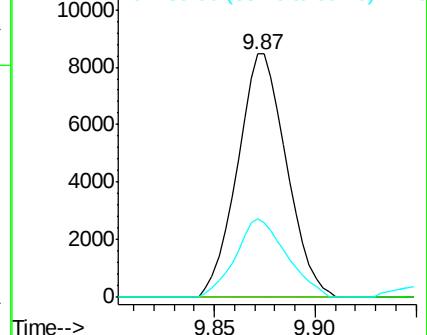
39 32.3 35.6 53.4#



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



#57

1,3-Dichloropropane

Concen: 0.251 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064915.D

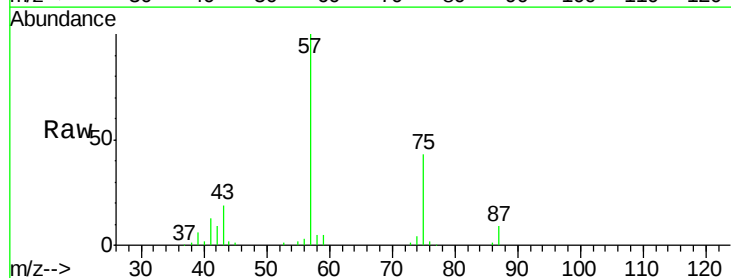
Acq: 4 Dec 2020 13:40

Tgt Ion: 76 Resp: 916

Ion Ratio Lower Upper

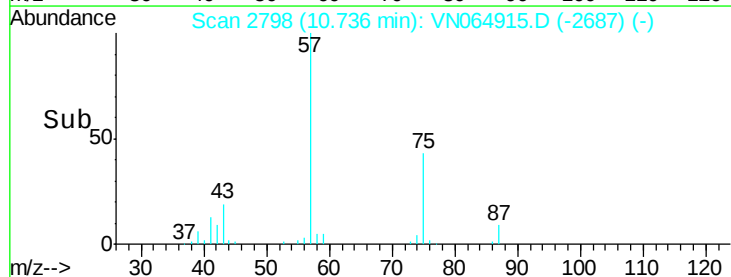
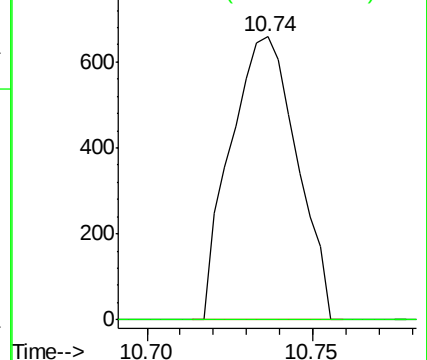
76 100

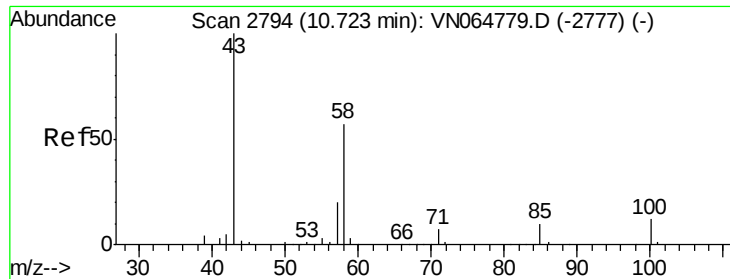
78 0.0 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 7.006 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.01 min

Lab File: VN064915.D

Acq: 4 Dec 2020 13:40

Instrument :

MSVOA_N

ClientSampleId :

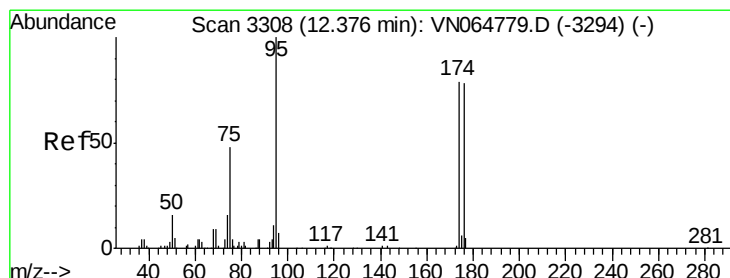
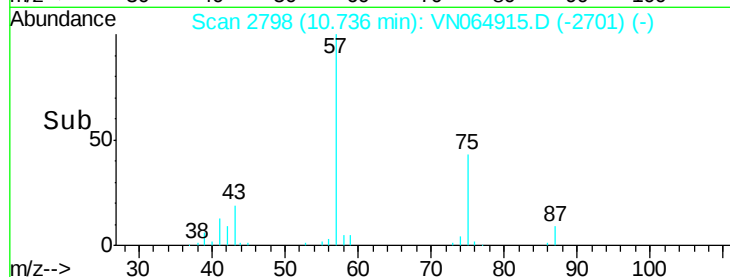
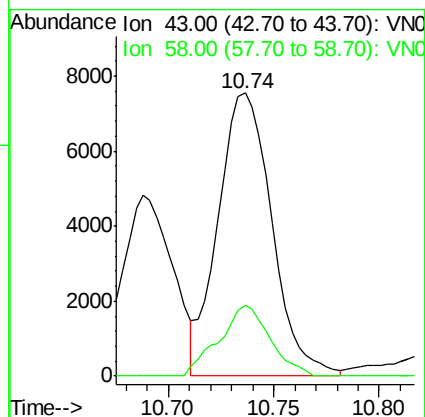
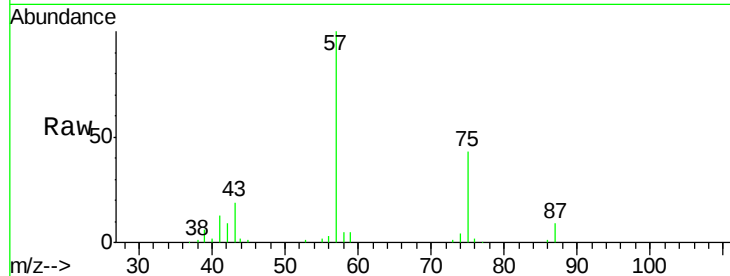
VNJ-214

Tot Ion: 43 Resp: 13370

Ion Ratio Lower Upper

43 100

58 23.8 28.3 84.9#



#62

4-Bromofluorobenzene

Concen: 58.259 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064915.D

Acq: 4 Dec 2020 13:40

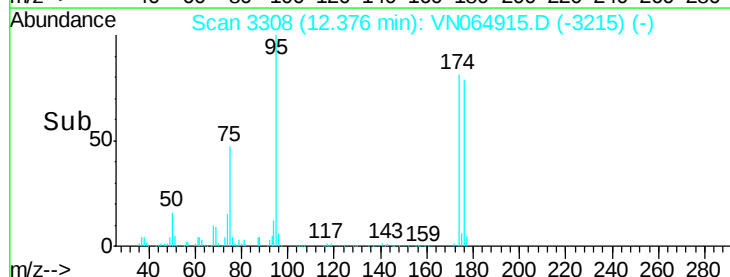
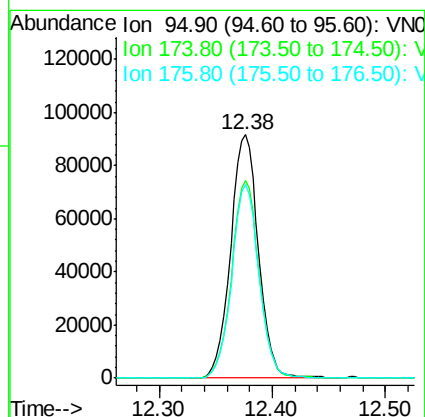
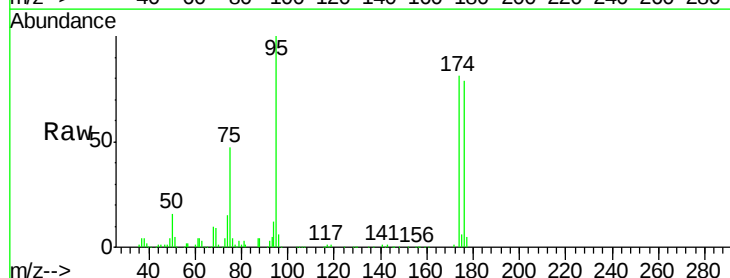
Tgt Ion: 95 Resp: 156722

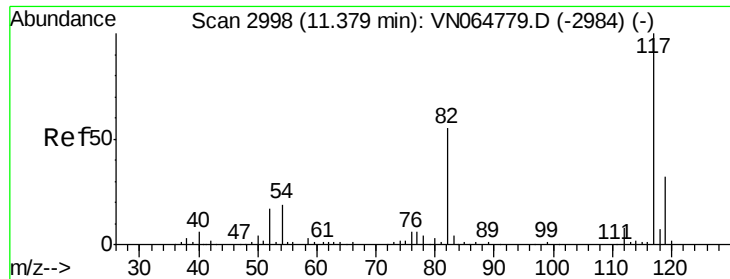
Ion Ratio Lower Upper

95 100

174 80.1 0.0 160.4

176 77.8 0.0 158.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064915.D

Acq: 4 Dec 2020 13:40

Instrument :

MSVOA_N

ClientSampled :

VNJ-214

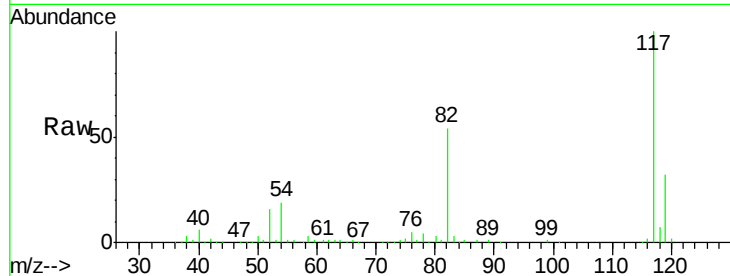
Tot Ion:117 Resp: 330586

Ion Ratio Lower Upper

117 100

82 53.6 44.2 66.2

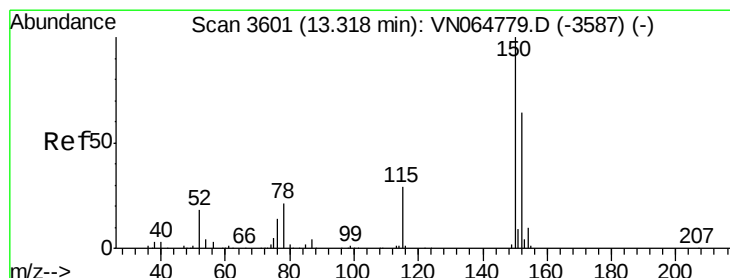
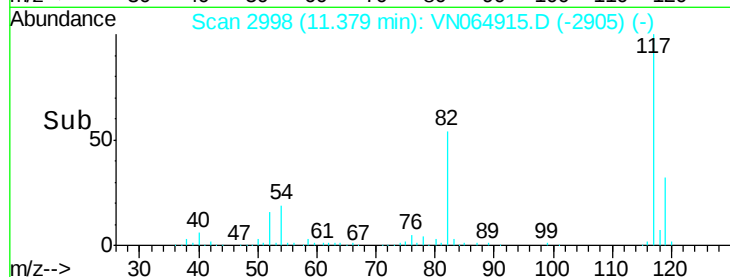
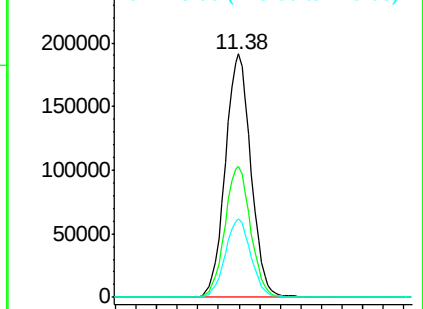
119 32.2 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN064915.D

Acq: 4 Dec 2020 13:40

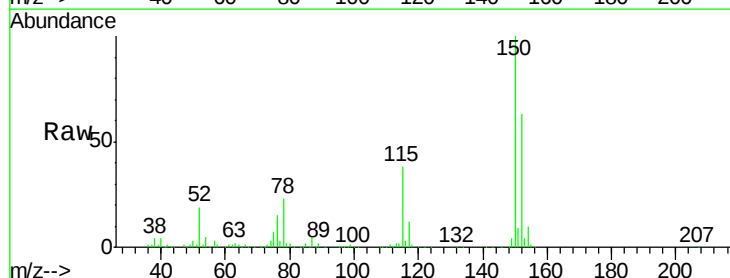
Tgt Ion:152 Resp: 148016

Ion Ratio Lower Upper

152 100

115 60.2 29.7 89.1

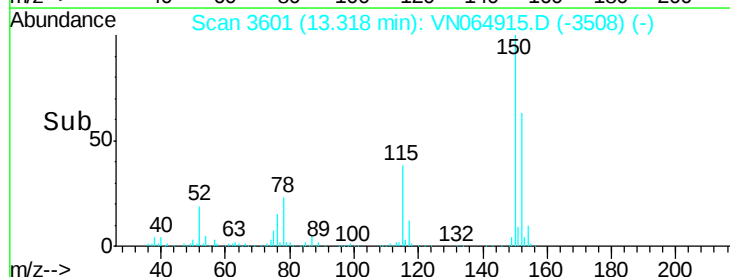
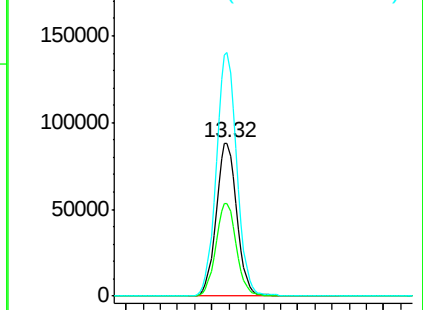
150 157.7 0.0 350.6

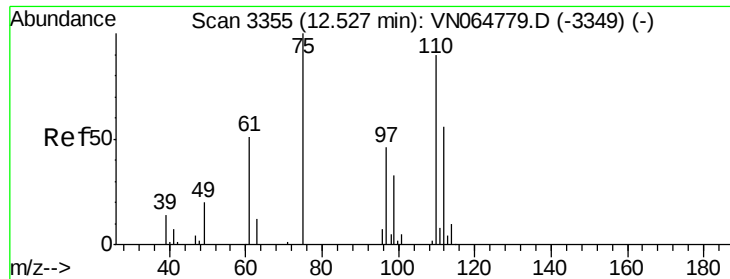


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.939 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064915.D

Acq: 4 Dec 2020 13:40

Instrument :

MSVOA_N

ClientSampleId :

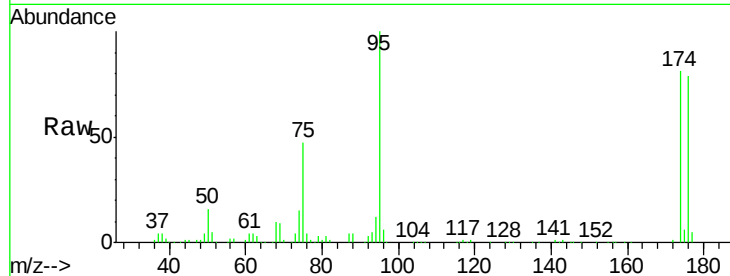
VNJ-214

Tot Ion: 75 Resp: 73122

Ion Ratio Lower Upper

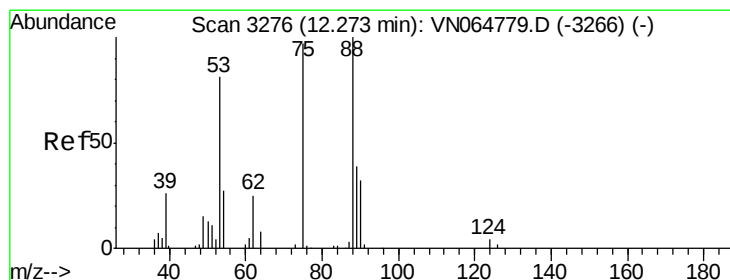
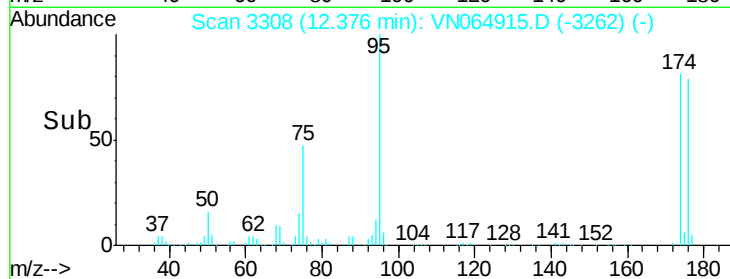
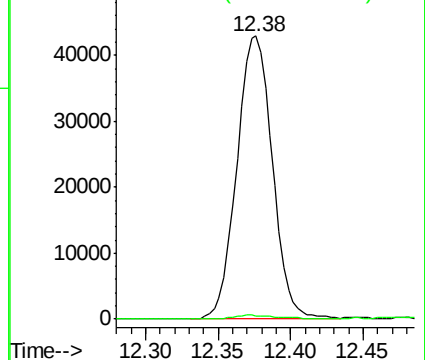
75 100

77 1.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 62.871 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064915.D

Acq: 4 Dec 2020 13:40

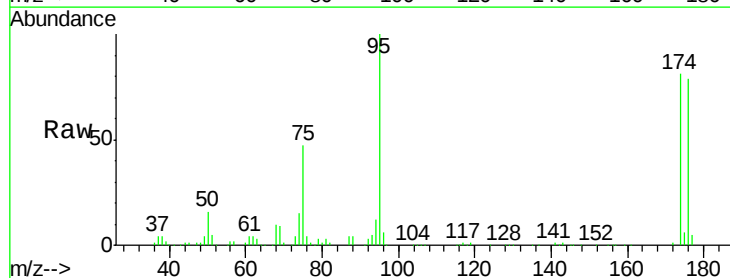
Tgt Ion: 75 Resp: 73122

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.4#

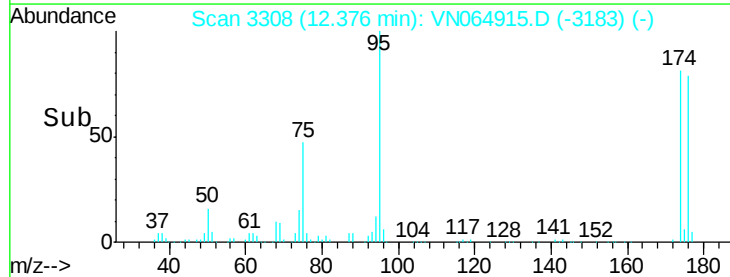
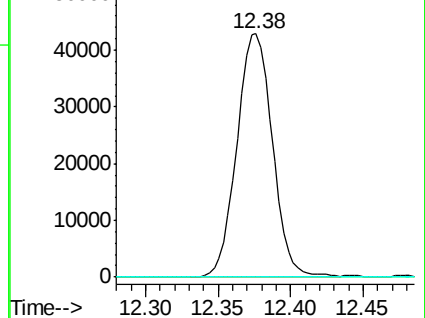
89 0.0 39.6 59.4#

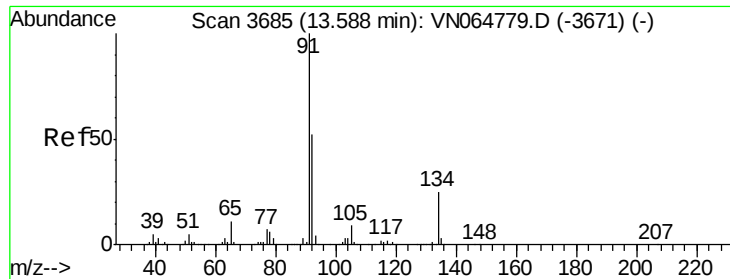


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#89

n-Butylbenzene

Concen: 0.297 ug/l

RT: 13.59 min Scan# 3686

Delta R.T. 0.00 min

Lab File: VN064915.D

Acq: 4 Dec 2020 13:40

Instrument :

MSVOA_N

ClientSampleId :

VNJ-214

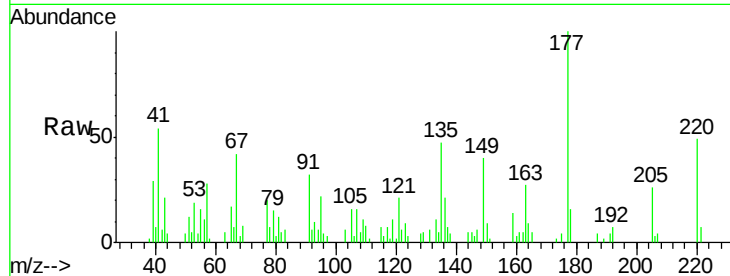
Tot Ion: 91 Resp: 2262

Ion Ratio Lower Upper

91 100

92 56.4 26.0 78.0

134 26.9 12.9 38.6

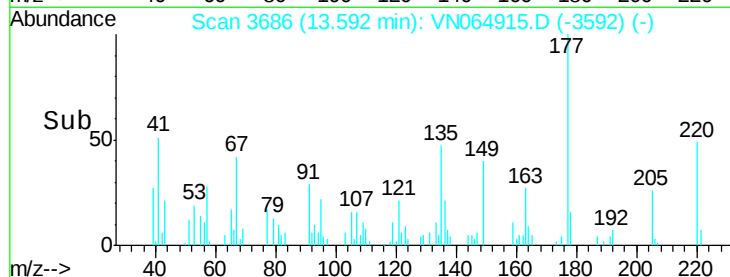


Abundance Ion 91.00 (90.70 to 91.70): VN064779.D (-3671) (-)

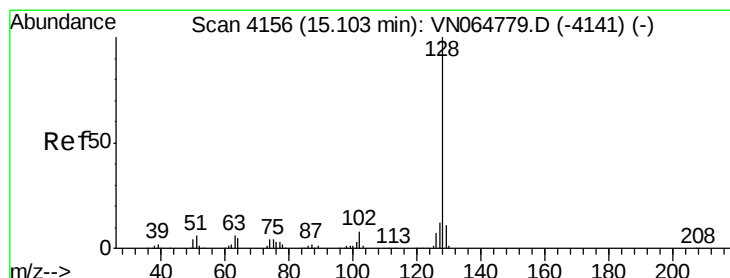
Ion 92.00 (91.70 to 92.70): VN064779.D (-3671) (-)

Ion 134.00 (133.70 to 134.70): VN064779.D (-3671) (-)

Time-->



Time-->



#95

Naphthalene

Concen: 0.252 ug/l

RT: 15.11 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN064915.D

Acq: 4 Dec 2020 13:40

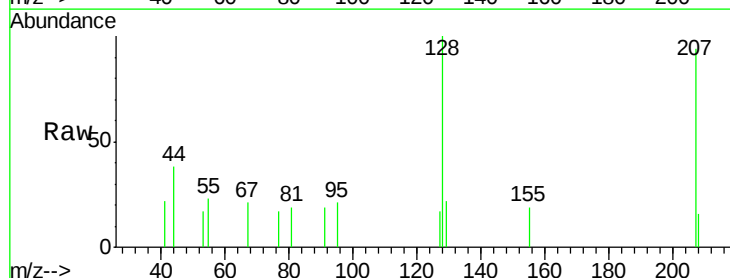
Tgt Ion: 128 Resp: 2259

Ion Ratio Lower Upper

128 100

127 1.4 10.3 15.5#

129 12.9 8.7 13.1

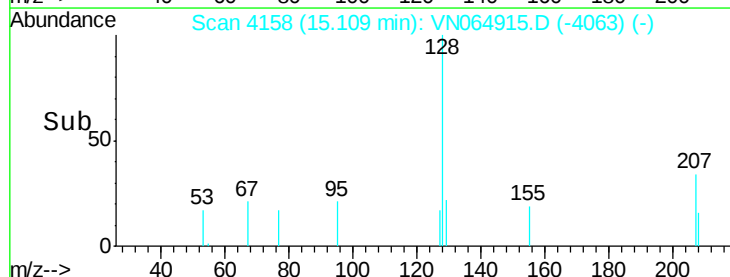


Abundance Ion 128.00 (127.70 to 128.70): VN064779.D (-4141) (-)

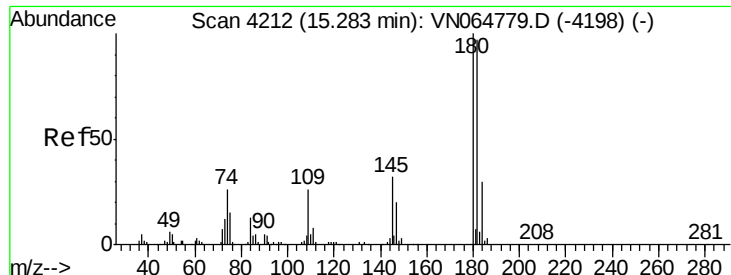
Ion 127.00 (126.70 to 127.70): VN064779.D (-4141) (-)

Ion 129.00 (128.70 to 129.70): VN064779.D (-4141) (-)

Time-->



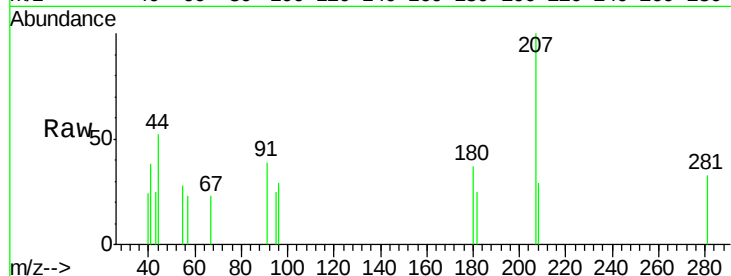
Time-->



#96
 1,2,3-Trichlorobenzene
 Concen: 1.449 ug/l
 RT: 15.29 min Scan# 4214
 Delta R.T. 0.01 min
 Lab File: VN064915.D
 Acq: 4 Dec 2020 13:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VNJ-214

Tot Ion	Ratio	Lower	Upper
180	100		
182	89.8	48.1	144.4
145	17.4	16.4	49.1



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

