

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN100820\
 Data File : VN064029.D
 Acq On : 9 Oct 2020 8:28
 Operator : JC/MD
 Sample : L4296-02 100X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 56 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 31281

Quant Time: Oct 09 12:07:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	252920	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	478524	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	487592	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	195858	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	209545	50.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.30%	
35) Dibromofluoromethane	7.55	113	158847	47.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.68%	
50) Toluene-d8	10.06	98	593575	47.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.32%	
62) 4-Bromofluorobenzene	12.38	95	231795	48.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.98%	

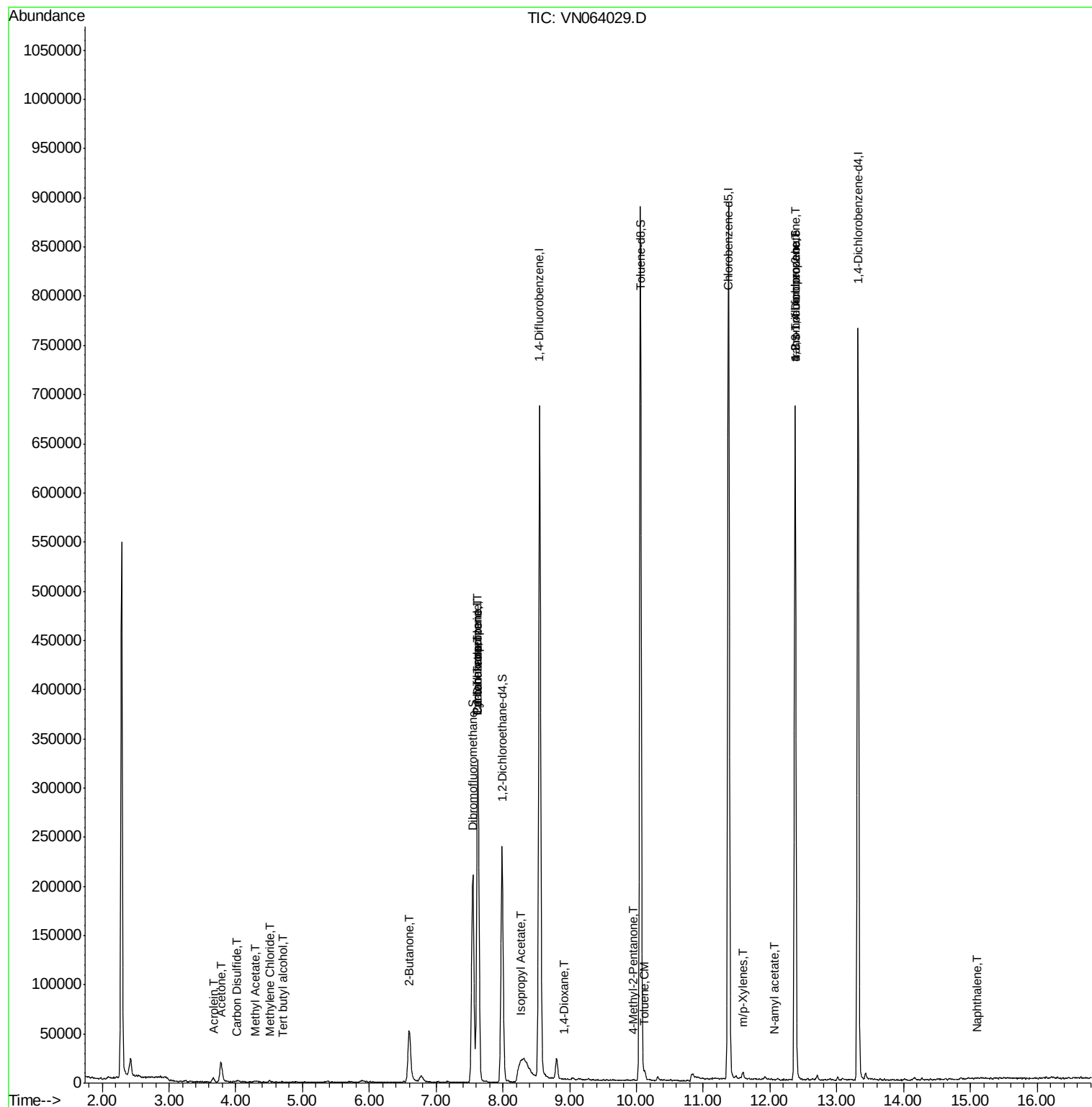
Target Compounds						Qvalue
11) Tert butyl alcohol	4.70	59	231	0.501	ug/l #	71
13) Acrolein	3.68	56	59	0.208	ug/l #	55
16) Acetone	3.78	43	36827	28.631	ug/l	100
17) Carbon Disulfide	4.01	76	357	0.752	ug/l #	76
18) Methyl Acetate	4.29	43	1203	0.360	ug/l #	54
20) Methylene Chloride	4.50	84	455	0.252	ug/l #	26
25) 2-Butanone	6.60	43	122285	67.057	ug/l #	51
31) Cyclohexane	7.62	56	6425	1.324	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	21078	4.348	ug/l #	51
38) Carbon Tetrachloride	7.62	117	27601	5.077	ug/l #	13
43) Isopropyl Acetate	8.27	43	24581	3.094	ug/l #	64
49) 1,4-Dioxane	8.92	88	33	0.592	ug/l #	20
51) 4-Methyl-2-Pentanone	9.96	43	1601	0.343	ug/l #	60
52) Toluene	10.12	92	2721	0.318	ug/l	96
68) m/p-Xylenes	11.59	106	2513	0.370	ug/l	74
74) N-amyl acetate	12.06	43	260	2.253	ug/l #	53
76) 1,2,3-Trichloropropane	12.38	75	124705	28.884	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	124705	83.190	ug/l #	6
95) Naphthalene	15.10	128	809	1.998	ug/l #	79

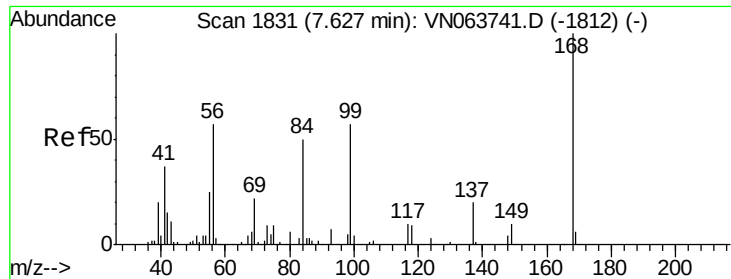
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN064029.D

Acq: 9 Oct 2020 8:28

Instrument :

MSVOA_N

ClientSampleId :

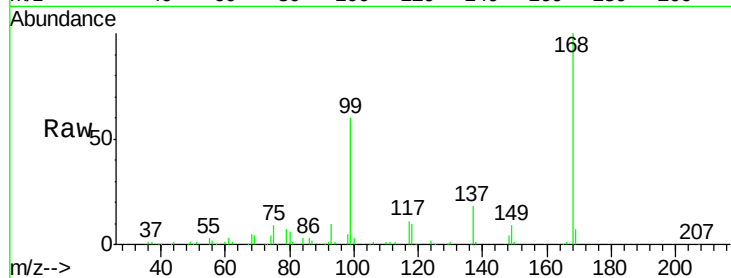
31281

Tgt Ion:168 Resp: 252920

Ion Ratio Lower Upper

168 100

99 60.0 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.62

120000

100000

80000

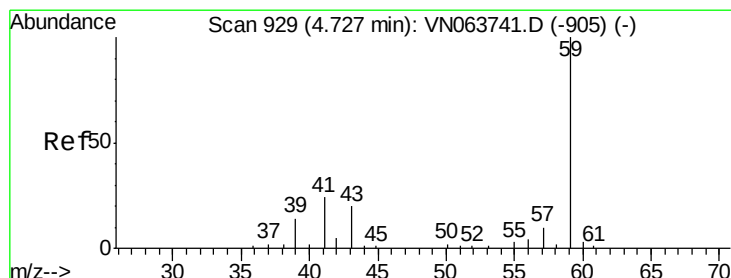
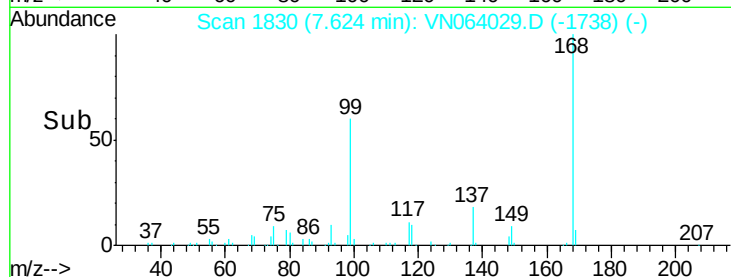
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.501 ug/l

RT: 4.70 min Scan# 922

Delta R.T. -0.02 min

Lab File: VN064029.D

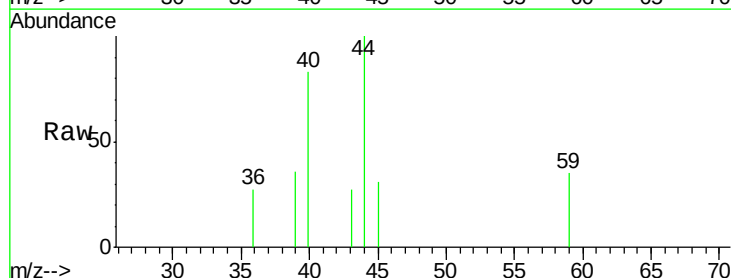
Acq: 9 Oct 2020 8:28

Tgt Ion: 59 Resp: 231

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.70

200

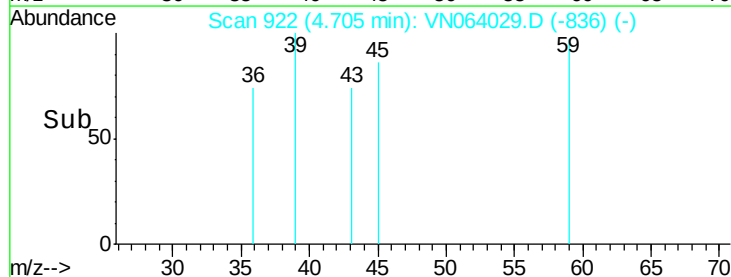
150

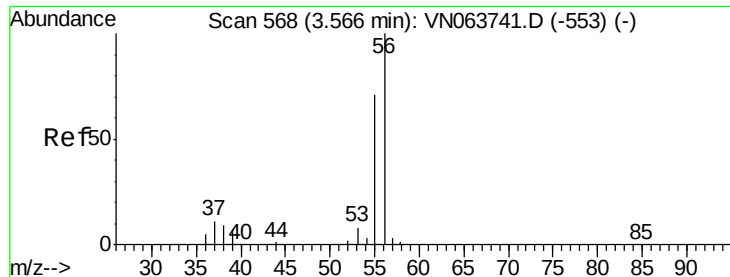
100

50

0

Time--> 4.68 4.70 4.72

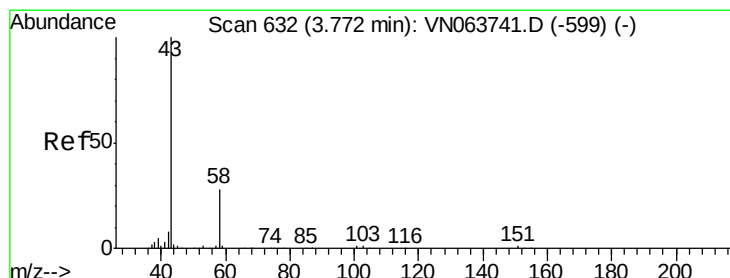
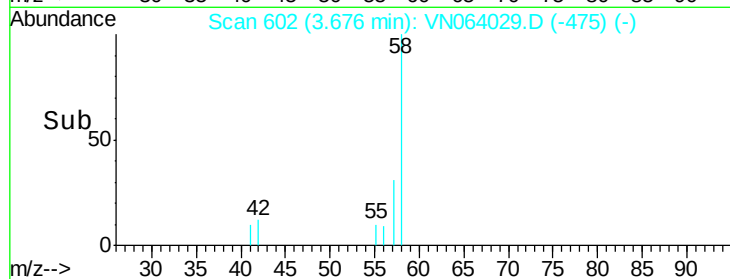
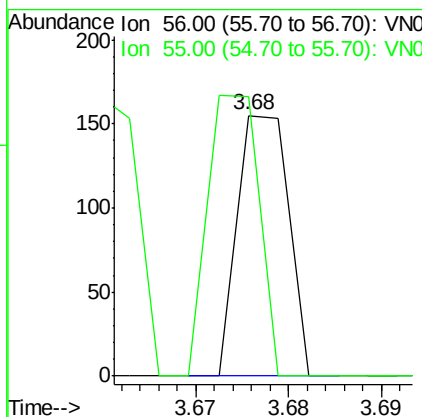
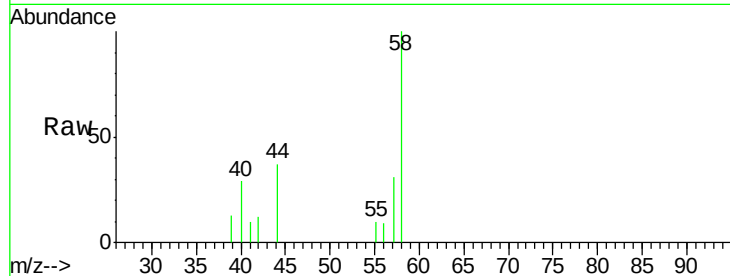




#13
Acrolein
Concen: 0.208 ug/l
RT: 3.68 min Scan# 602
Delta R.T. 0.11 min
Lab File: VN064029.D
Acq: 9 Oct 2020 8:28

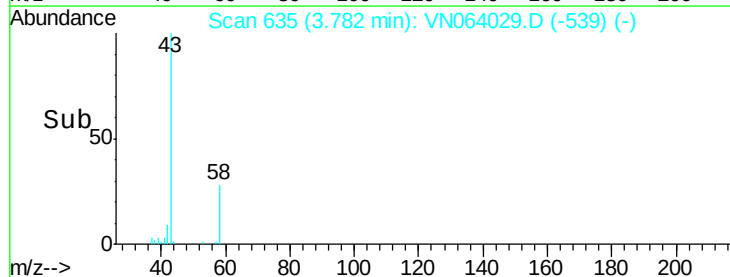
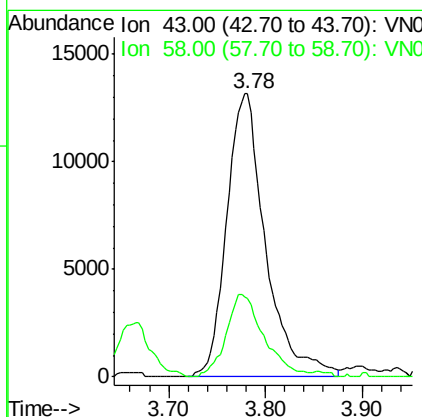
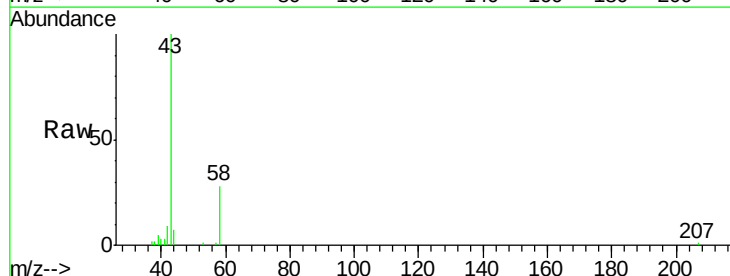
Instrument :
MSVOA_N
ClientSampled :
31281

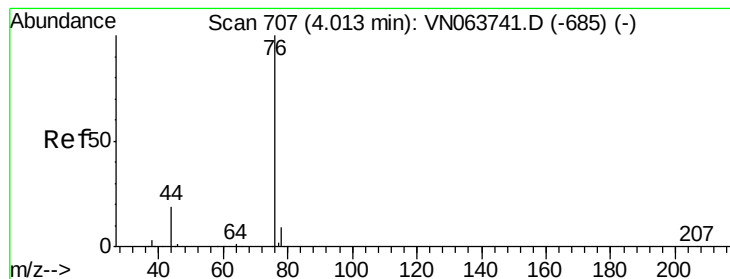
Tgt Ion: 56 Resp: 59
Ion Ratio Lower Upper
56 100
55 108.5 56.9 85.3#



#16
Acetone
Concen: 28.631 ug/l
RT: 3.78 min Scan# 635
Delta R.T. 0.01 min
Lab File: VN064029.D
Acq: 9 Oct 2020 8:28

Tgt Ion: 43 Resp: 36827
Ion Ratio Lower Upper
43 100
58 27.8 22.3 33.5





#17

Carbon Disulfide

Concen: 0.752 ug/l

RT: 4.01 min Scan# 707

Delta R.T. 0.00 min

Lab File: VN064029.D

Acq: 9 Oct 2020 8:28

Instrument :

MSVOA_N

ClientSampled :

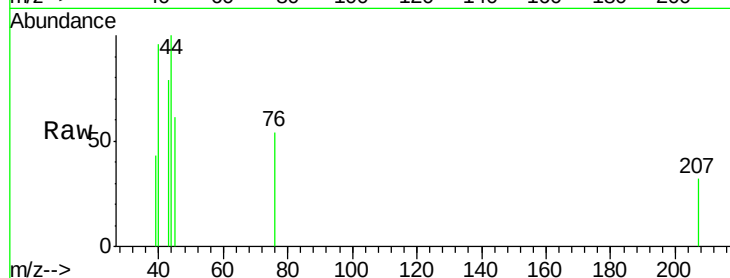
31281

Tgt Ion: 76 Resp: 357

Ion Ratio Lower Upper

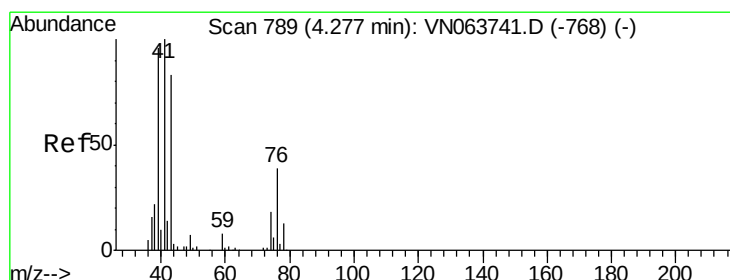
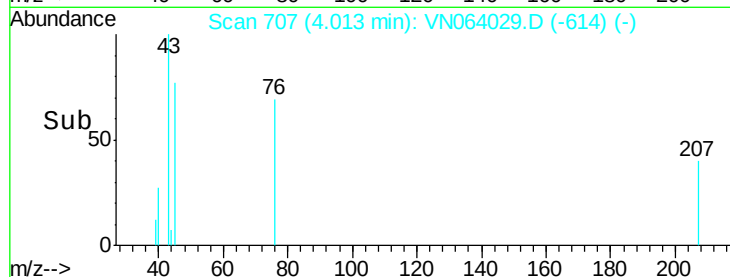
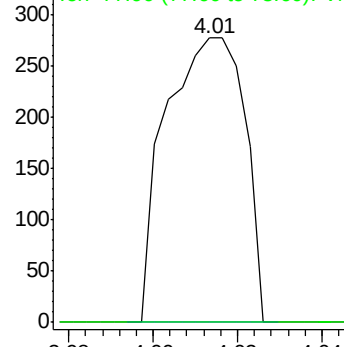
76 100

78 0.0 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 0.360 ug/l

RT: 4.29 min Scan# 794

Delta R.T. 0.02 min

Lab File: VN064029.D

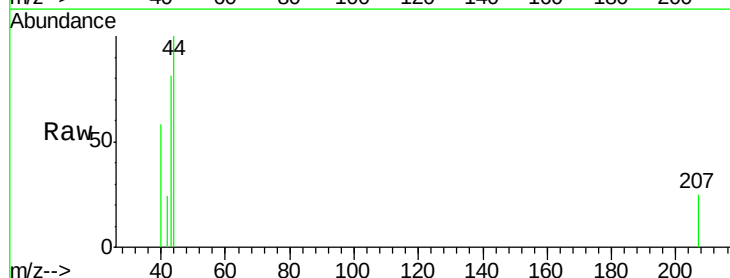
Acq: 9 Oct 2020 8:28

Tgt Ion: 43 Resp: 1203

Ion Ratio Lower Upper

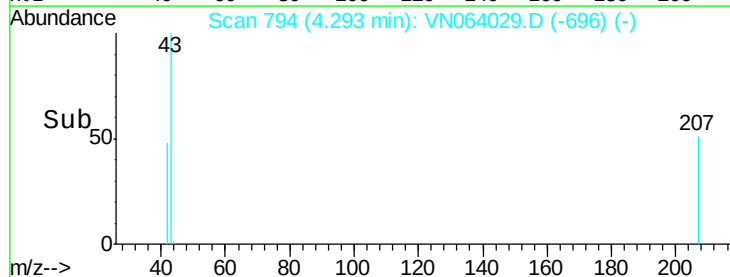
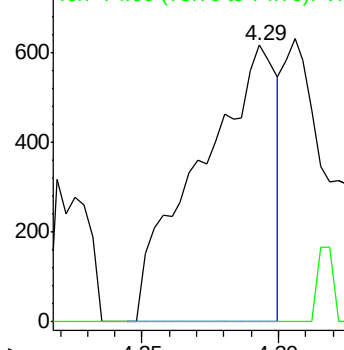
43 100

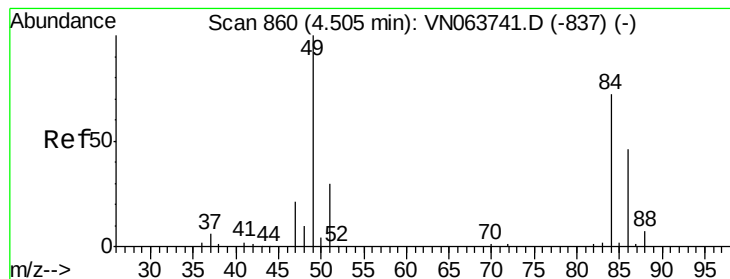
74 0.0 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methylene Chloride

Concen: 0.252 ug/l

RT: 4.50 min Scan# 857

Delta R.T. -0.01 min

Lab File: VN064029.D

Acq: 9 Oct 2020 8:28

Instrument :

MSVOA_N

ClientSampleId :

31281

Tgt Ion: 84 Resp: 455

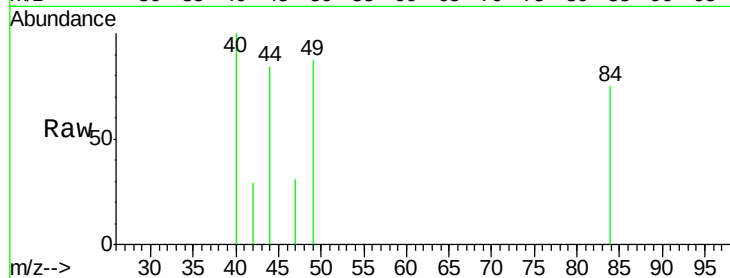
Ion Ratio Lower Upper

84 100

49 49.3 110.4 165.6#

51 0.0 33.3 49.9#

86 0.0 50.7 76.1#

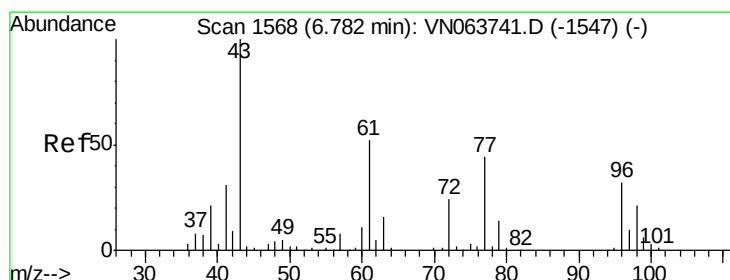
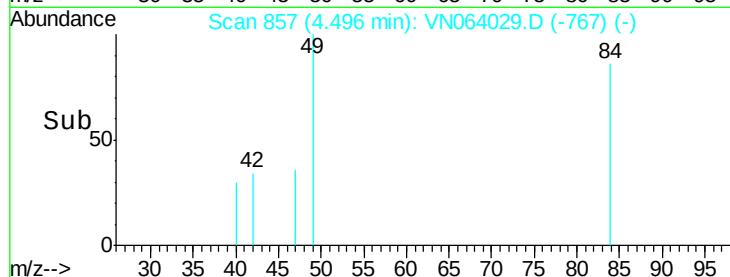
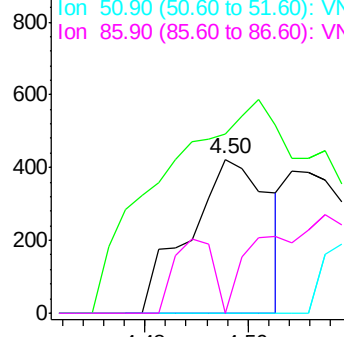


Abundance Ion 83.90 (83.60 to 84.60): VN0

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



#25

2-Butanone

Concen: 67.057 ug/l

RT: 6.60 min Scan# 1512

Delta R.T. -0.18 min

Lab File: VN064029.D

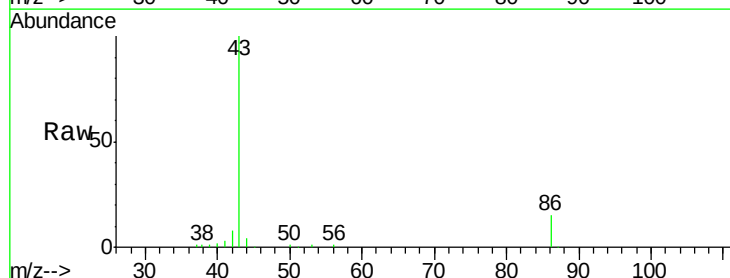
Acq: 9 Oct 2020 8:28

Tgt Ion: 43 Resp: 122285

Ion Ratio Lower Upper

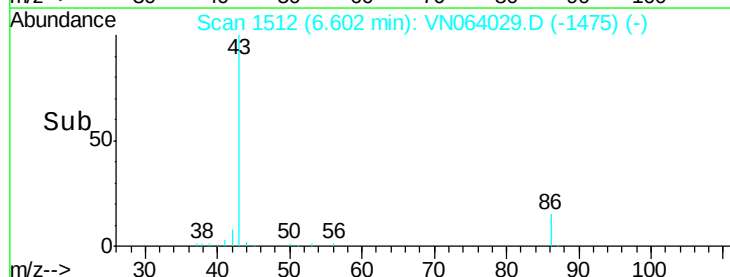
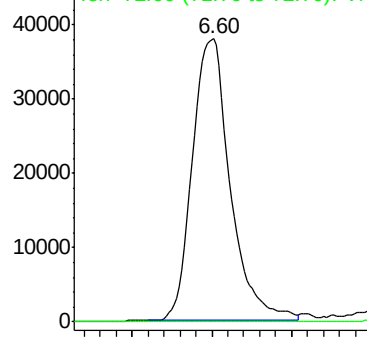
43 100

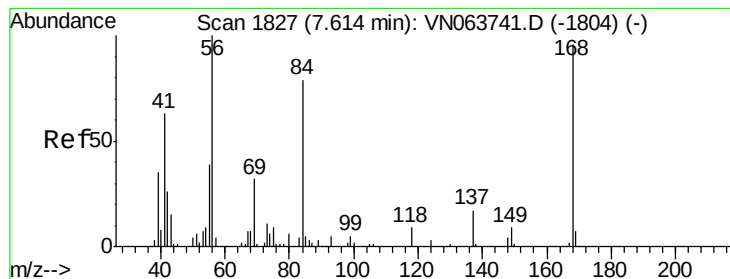
72 0.0 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#31

Cyclohexane

Concen: 1.324 ug/l

RT: 7.62 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN064029.D

Acq: 9 Oct 2020 8:28

Instrument :

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ClientSampleId :

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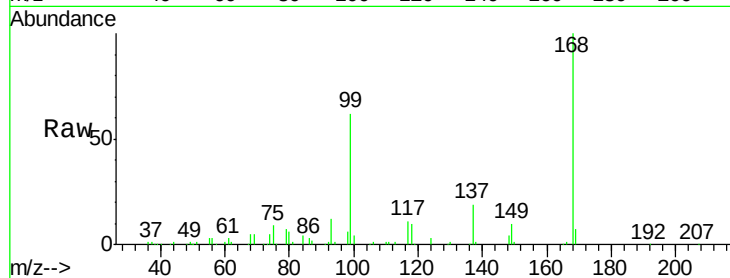
Tgt Ion: 56 Resp: 6425

Ion Ratio Lower Upper

56 100

69 178.2 25.4 38.2#

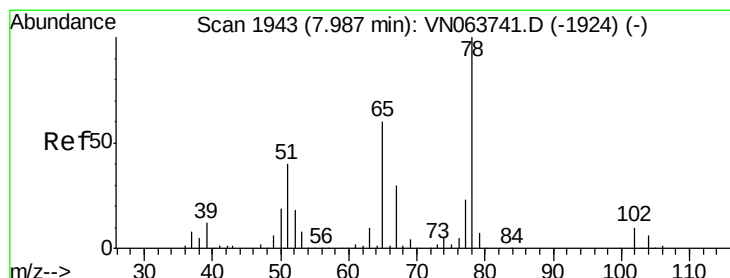
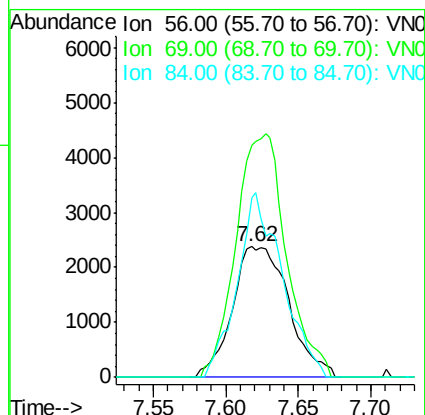
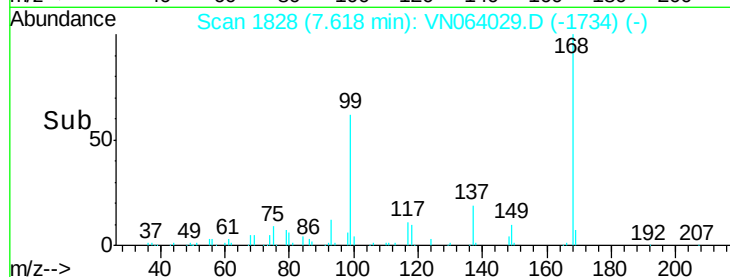
84 137.3 63.3 94.9#



Abundance Ion 56.00 (55.70 to 56.70): VN064029.D (-1734) (-)

Ion 69.00 (68.70 to 69.70): VN064029.D (-1734) (-)

Ion 84.00 (83.70 to 84.70): VN064029.D (-1734) (-)



#33

1,2-Dichloroethane-d4

Concen: 50.149 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064029.D

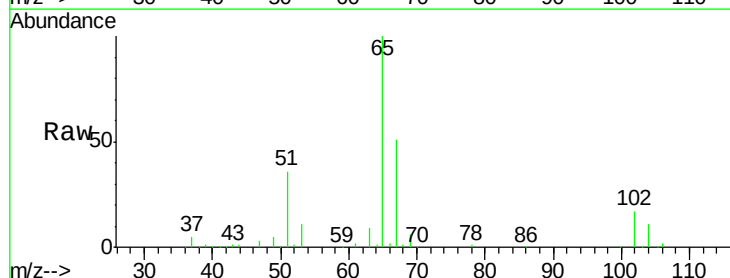
Acq: 9 Oct 2020 8:28

Tgt Ion: 65 Resp: 209545

Ion Ratio Lower Upper

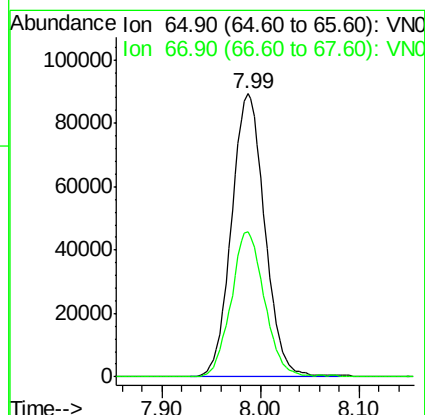
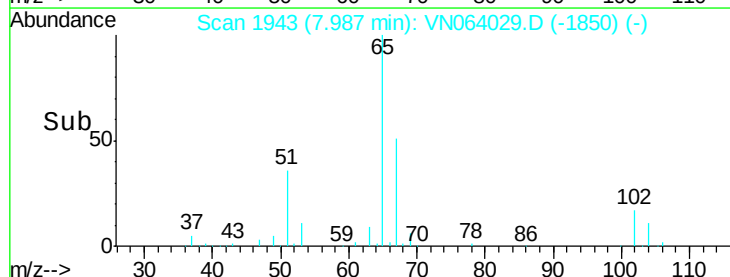
65 100

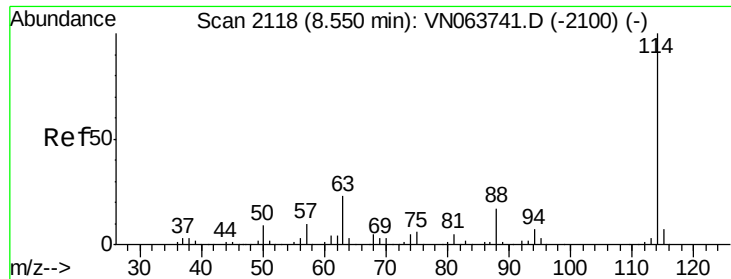
67 51.2 0.0 99.6



Abundance Ion 64.90 (64.60 to 65.60): VN064029.D (-1850) (-)

Ion 66.90 (66.60 to 67.60): VN064029.D (-1850) (-)

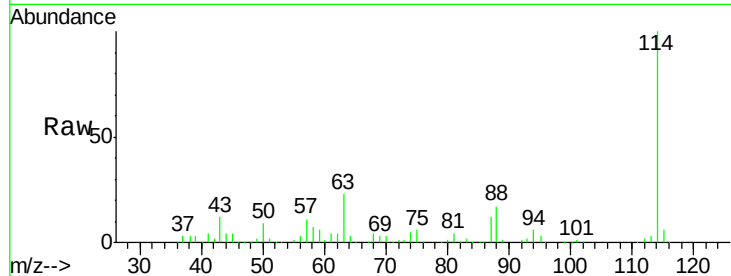




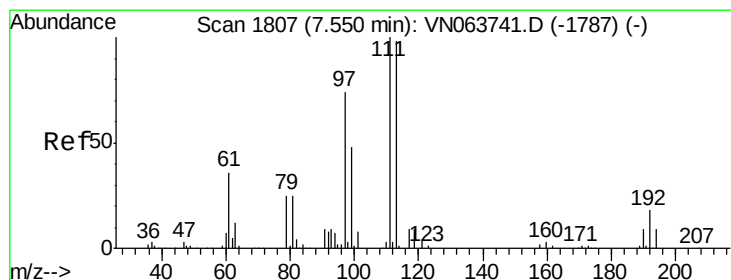
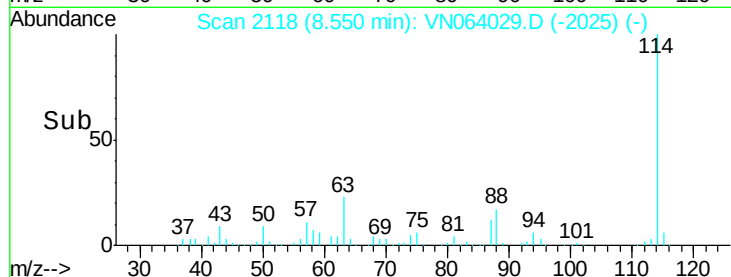
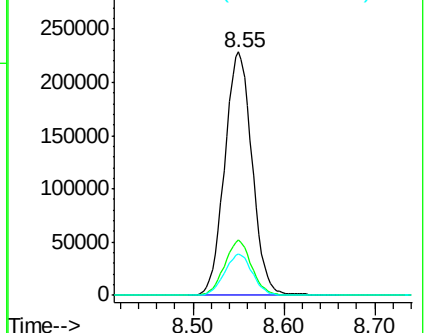
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064029.D
 Acq: 9 Oct 2020 8:28

Instrument :
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 ClientSampleId :
 31281

Tgt Ion:114 Resp: 478524
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 45.0
 88 16.9 0.0 34.0

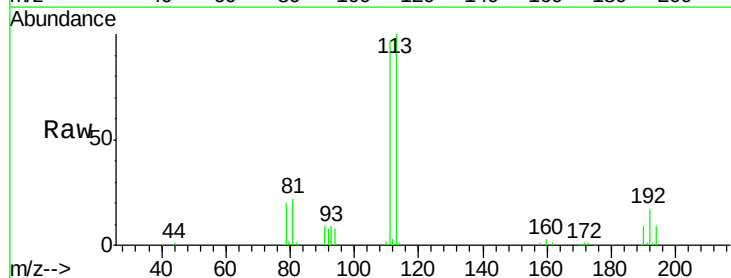


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

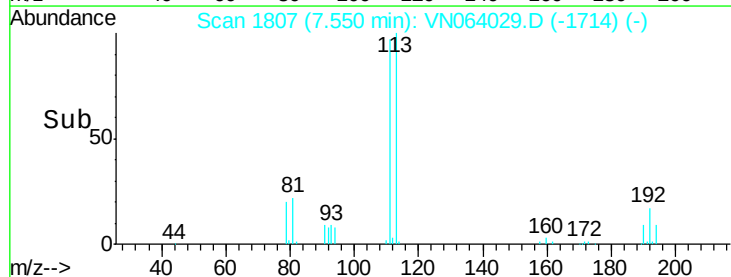
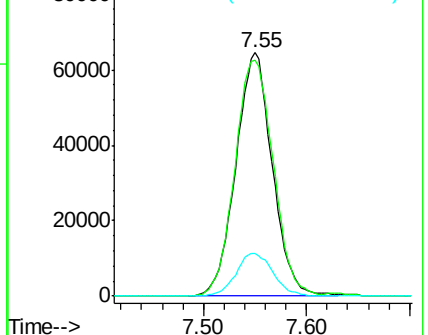


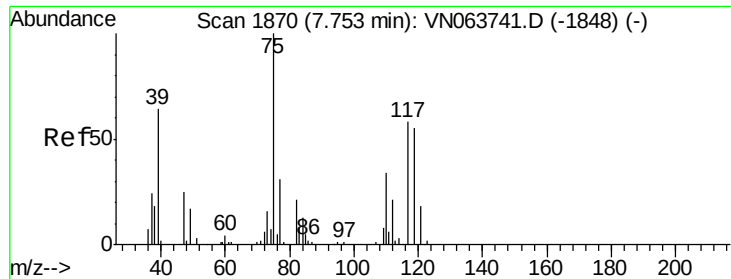
#35
 Dibromofluoromethane
 Concen: 47.840 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064029.D
 Acq: 9 Oct 2020 8:28

Tgt Ion:113 Resp: 158847
 Ion Ratio Lower Upper
 113 100
 111 102.1 81.8 122.8
 192 18.0 14.2 21.2



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

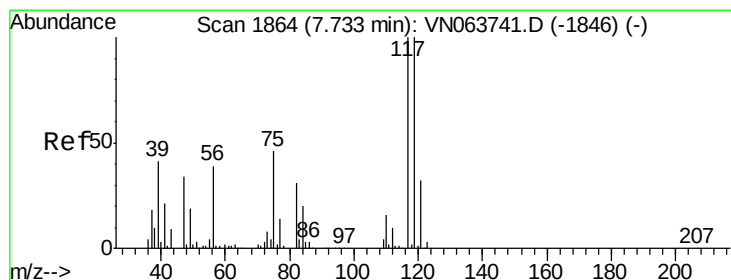
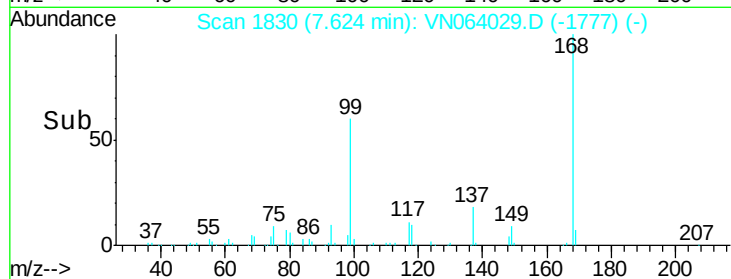
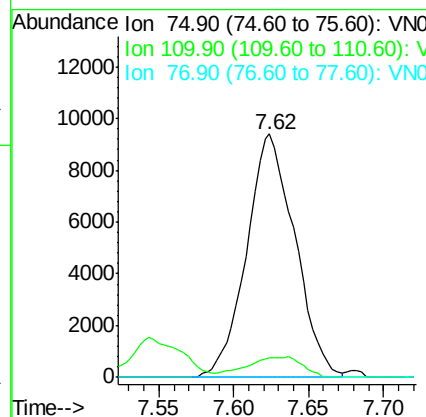
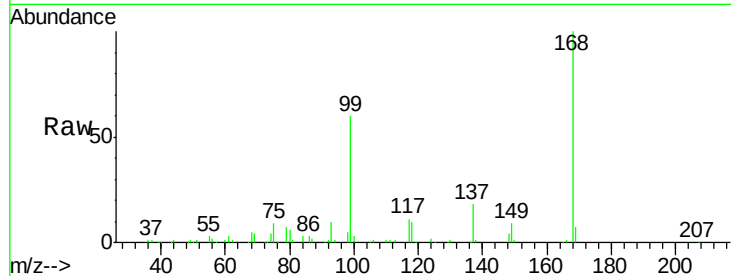




#36
 1,1-Dichloropropene
 Concen: 4.348 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064029.D
 Acq: 9 Oct 2020 8:28

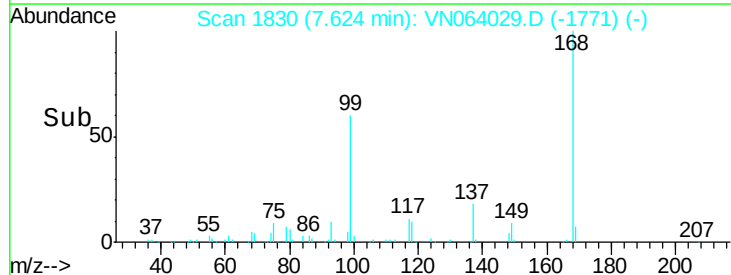
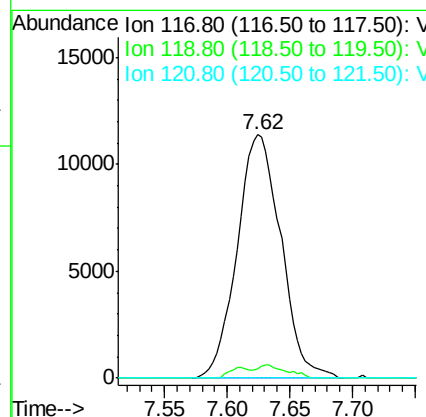
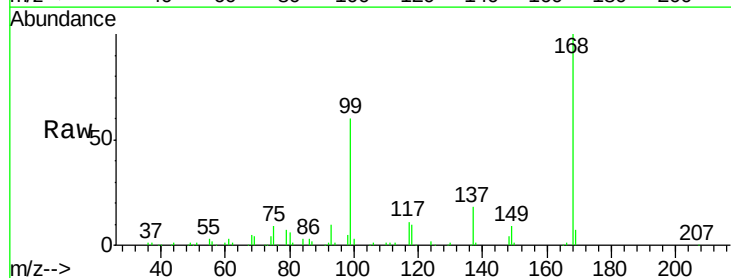
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 MSVOA_N
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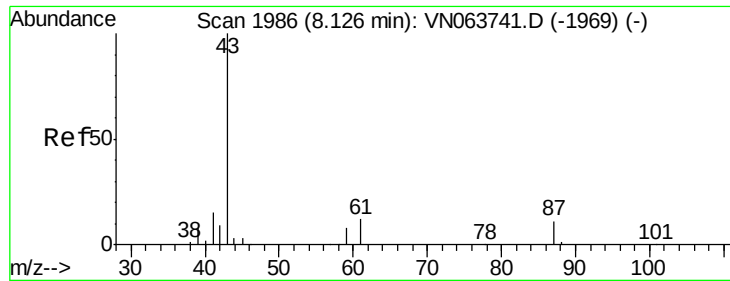
Tgt Ion: 75 Resp: 21078
 Ion Ratio Lower Upper
 75 100
 110 9.7 16.9 50.6#
 77 0.0 24.5 36.7#



#38
 Carbon Tetrachloride
 Concen: 5.077 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.11 min
 Lab File: VN064029.D
 Acq: 9 Oct 2020 8:28

Tgt Ion: 117 Resp: 27601
 Ion Ratio Lower Upper
 117 100
 119 3.9 80.1 120.1#
 121 0.0 25.7 38.5#

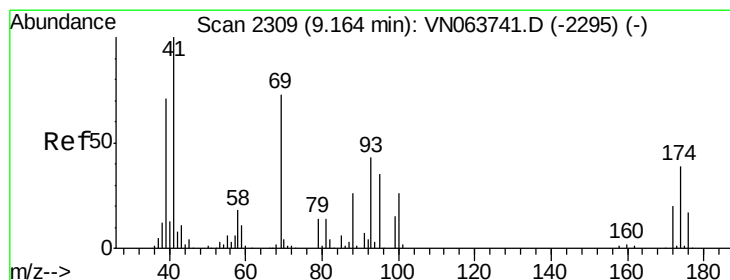
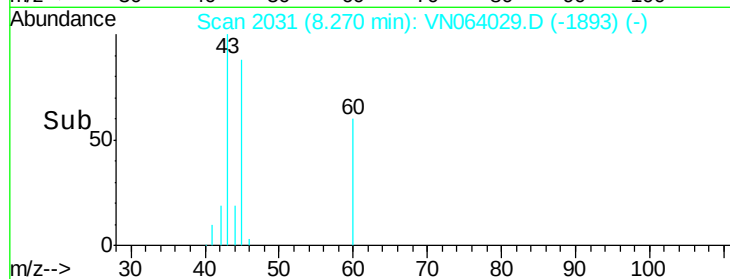
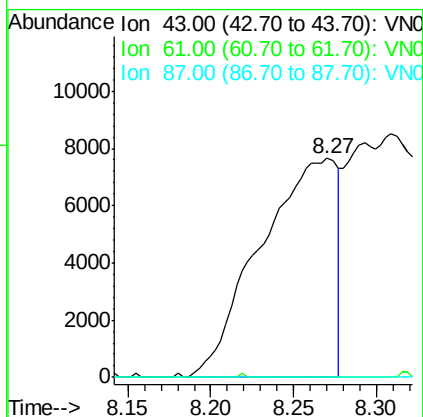
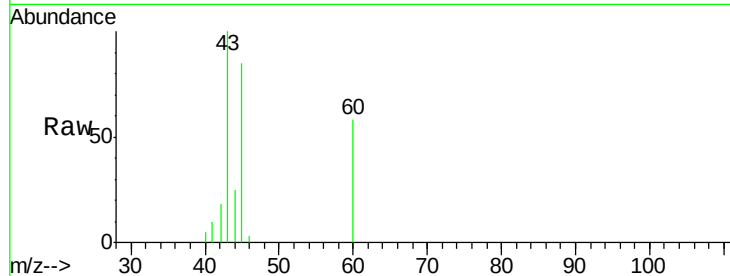




#43
Isopropyl Acetate
Concen: 3.094 ug/l
RT: 8.27 min Scan# 2031
Delta R.T. 0.14 min
Lab File: VN064029.D
Acq: 9 Oct 2020 8:28

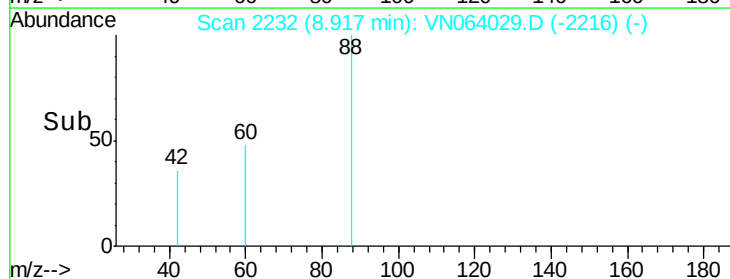
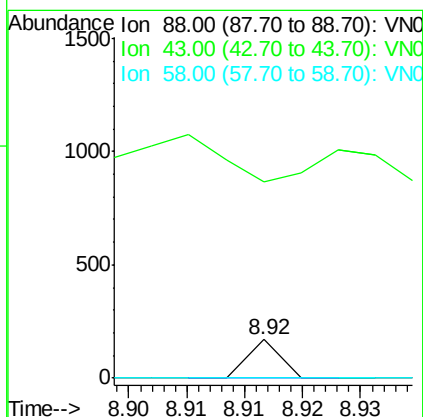
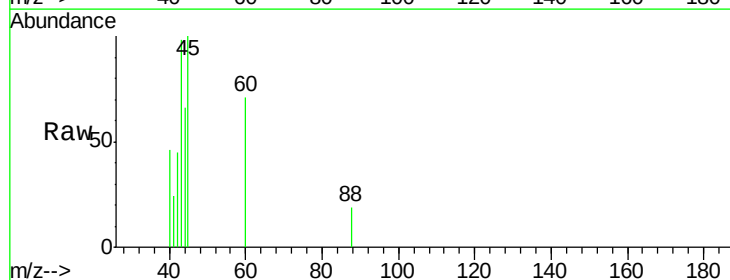
Instrument :
MSVOA_N
ClientSampled :
31281

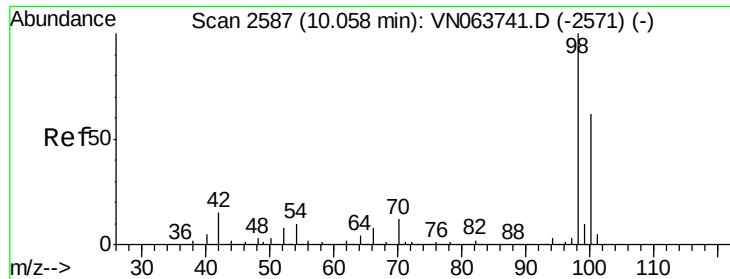
Tgt Ion: 43 Resp: 24581
Ion Ratio Lower Upper
43 100
61 0.0 14.2 21.4#
87 0.0 9.0 13.6#



#49
1,4-Dioxane
Concen: 0.592 ug/l
RT: 8.92 min Scan# 2232
Delta R.T. -0.25 min
Lab File: VN064029.D
Acq: 9 Oct 2020 8:28

Tgt Ion: 88 Resp: 33
Ion Ratio Lower Upper
88 100
43 0.0 33.1 49.7#
58 0.0 58.9 88.3#





#50

Toluene-d8

Concen: 47.157 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064029.D

Acq: 9 Oct 2020 8:28

Instrument :

MSVOA_N

ClientSampled :

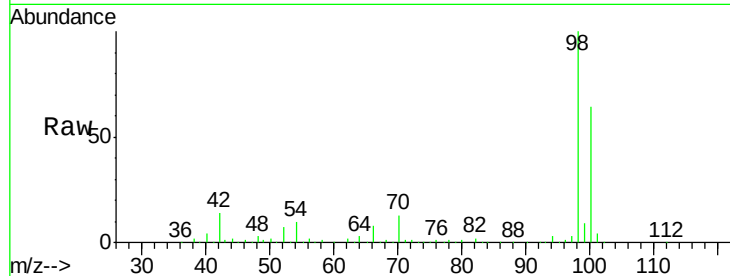
31281

Tgt Ion: 98 Resp: 593575

Ion Ratio Lower Upper

98 100

100 63.2 49.8 74.6



Abundance Ion 98.00 (97.70 to 98.70): VN063741.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN063741.D (-2571) (-)

10.06

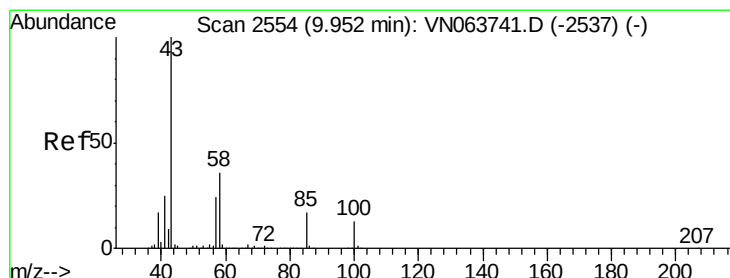
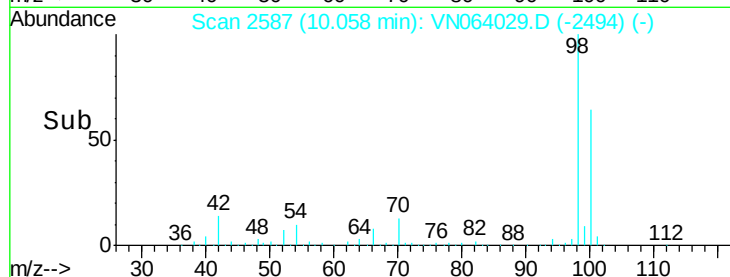
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.343 ug/l

RT: 9.96 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN064029.D

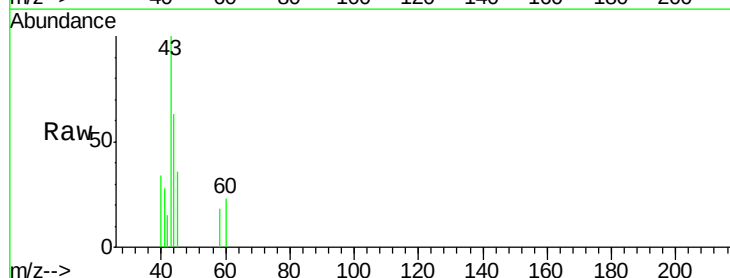
Acq: 9 Oct 2020 8:28

Tgt Ion: 43 Resp: 1601

Ion Ratio Lower Upper

43 100

58 12.2 28.4 42.6#



Abundance Ion 43.00 (42.70 to 43.70): VN063741.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN063741.D (-2537) (-)

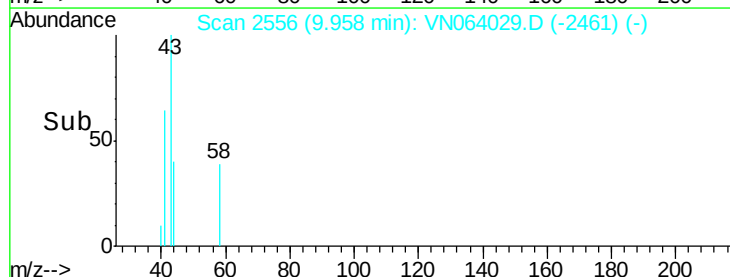
9.96

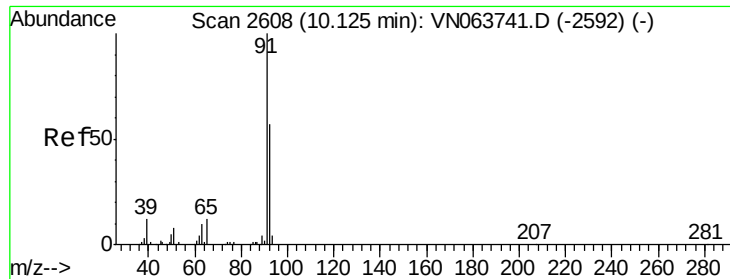
1000

500

0

Time-->





#52

Toluene

Concen: 0.318 ug/l

RT: 10.12 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN064029.D

Acq: 9 Oct 2020 8:28

Instrument :

MSVOA_N

ClientSampleId :

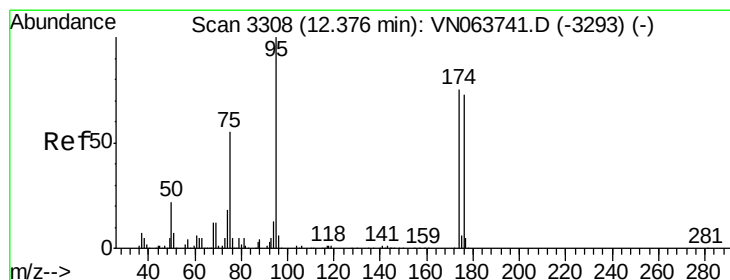
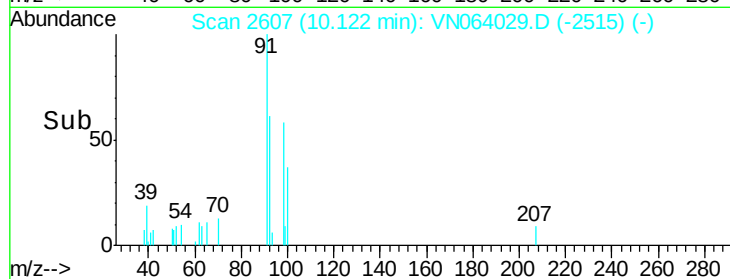
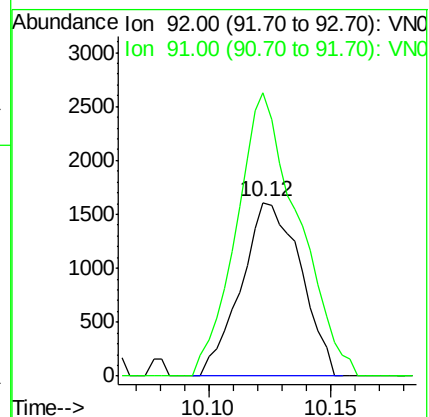
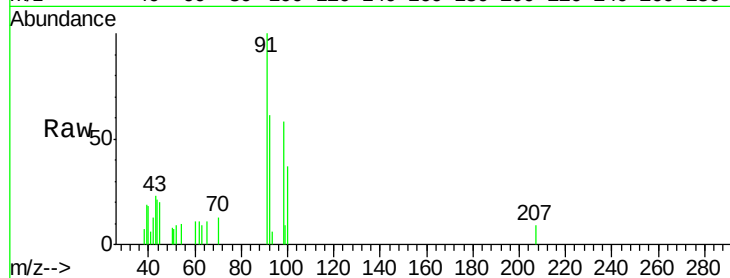
31281

Tgt Ion: 92 Resp: 2721

Ion Ratio Lower Upper

92 100

91 169.6 140.6 210.8



#62

4-Bromofluorobenzene

Concen: 48.988 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064029.D

Acq: 9 Oct 2020 8:28

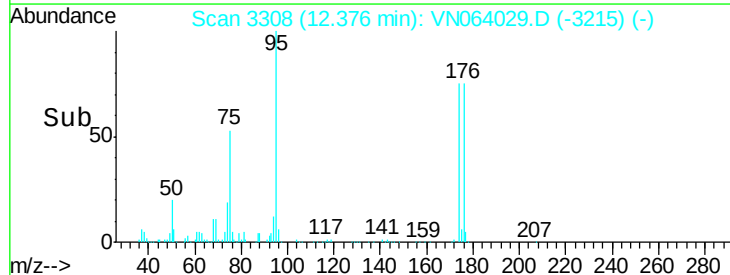
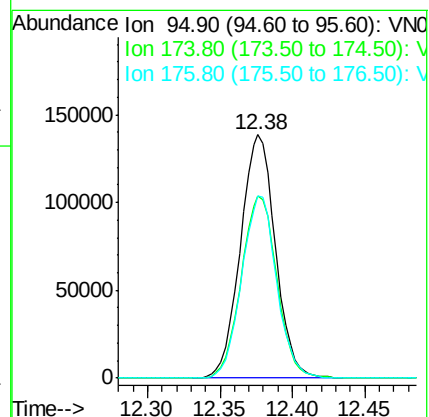
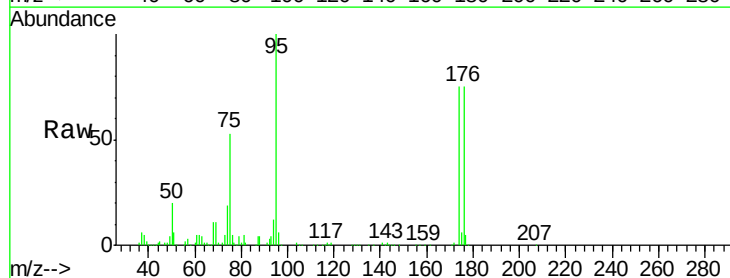
Tgt Ion: 95 Resp: 231795

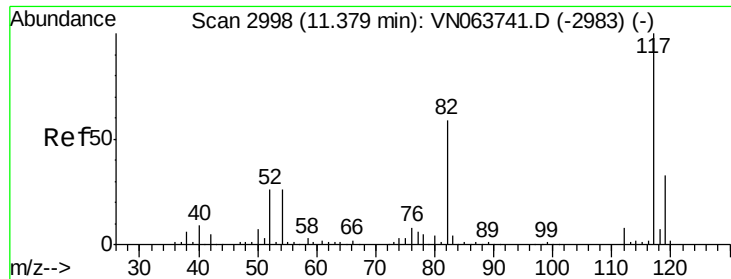
Ion Ratio Lower Upper

95 100

174 76.5 0.0 150.6

176 75.1 0.0 145.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064029.D

Acq: 9 Oct 2020 8:28

Instrument :

MSVOA_N

ClientSampled :

31281

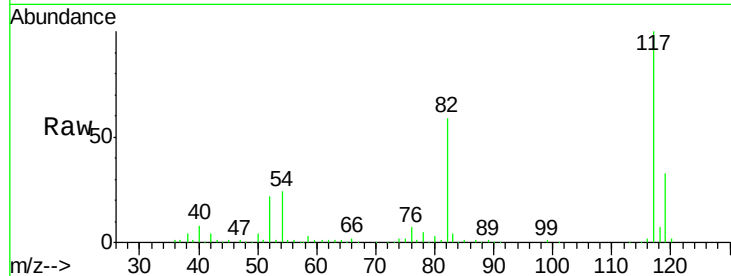
Tgt Ion:117 Resp: 487592

Ion Ratio Lower Upper

117 100

82 58.8 47.4 71.2

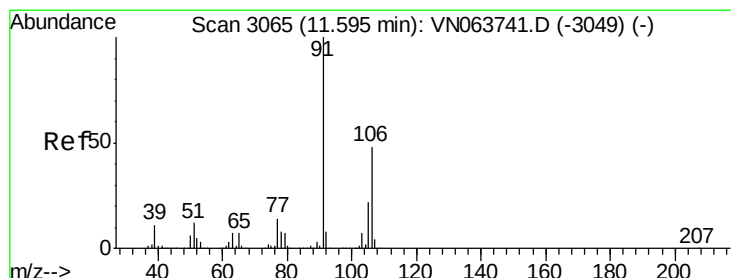
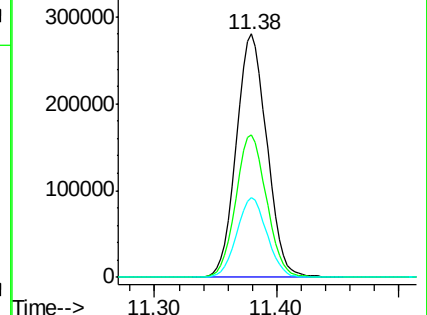
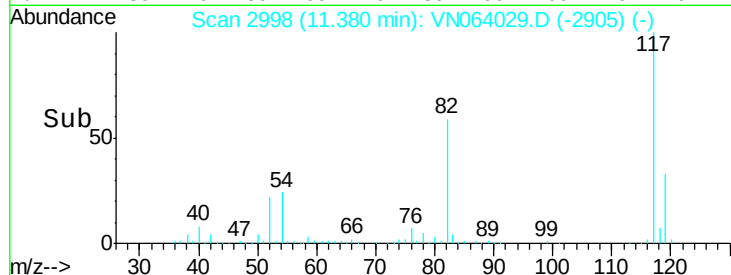
119 32.9 26.4 39.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): V



#68

m/p-Xylenes

Concen: 0.370 ug/l

RT: 11.59 min Scan# 3065

Delta R.T. 0.00 min

Lab File: VN064029.D

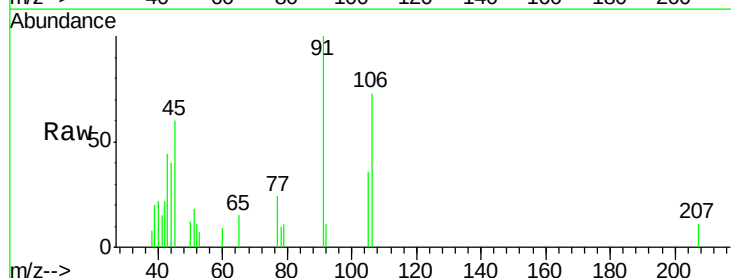
Acq: 9 Oct 2020 8:28

Tgt Ion:106 Resp: 2513

Ion Ratio Lower Upper

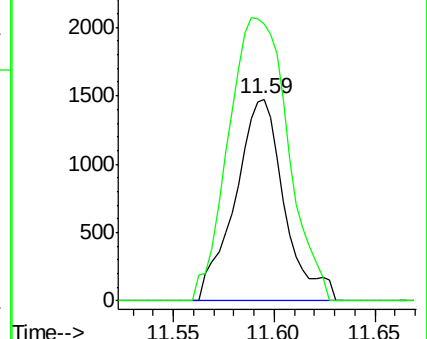
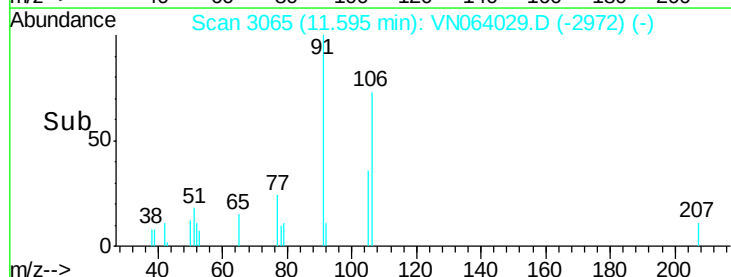
106 100

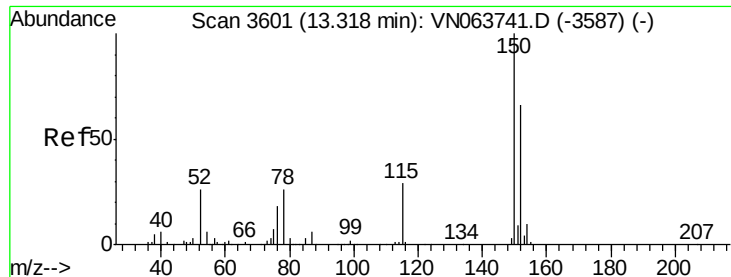
91 170.1 168.0 252.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064029.D

Acq: 9 Oct 2020 8:28

Instrument :

MSVOA_N

ClientSampleId :

31281

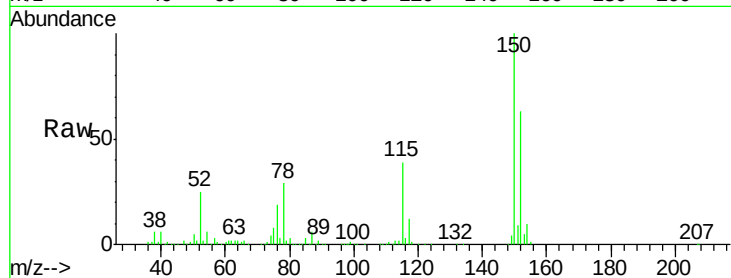
Tgt Ion:152 Resp: 195858

Ion Ratio Lower Upper

152 100

115 61.8 31.3 93.8

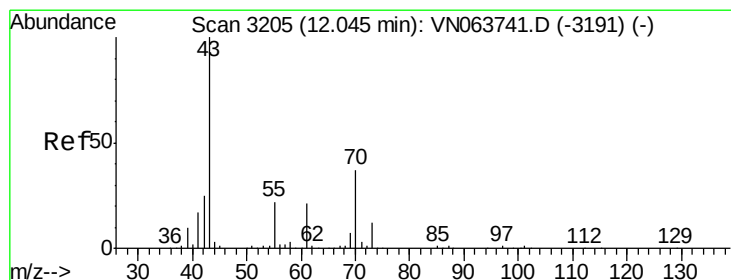
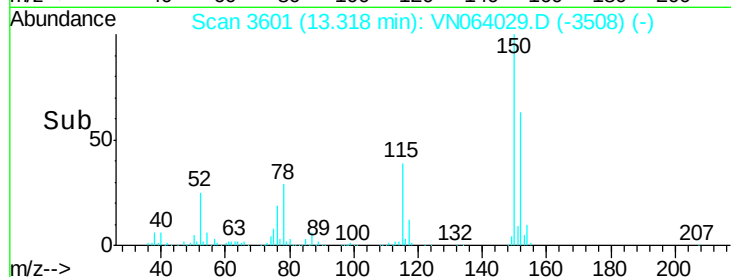
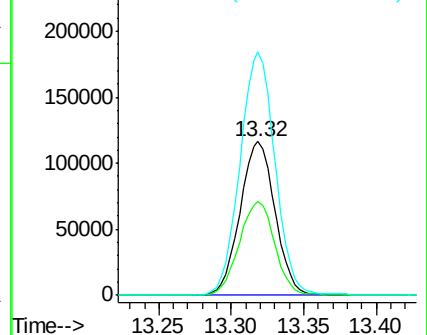
150 158.3 0.0 341.8



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-ethyl acetate

Concen: 2.253 ug/l

RT: 12.06 min Scan# 3209

Delta R.T. 0.01 min

Lab File: VN064029.D

Acq: 9 Oct 2020 8:28

Tgt Ion: 43 Resp: 260

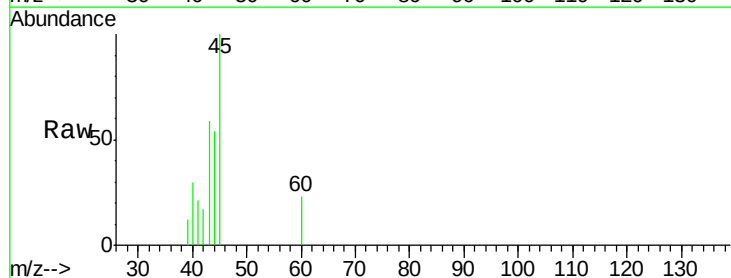
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 0.0 17.9 26.9#

61 11.5 17.0 25.4#

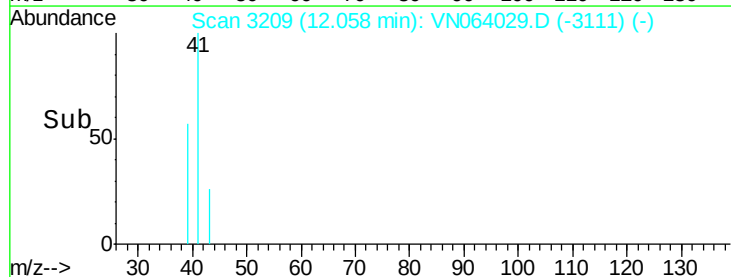
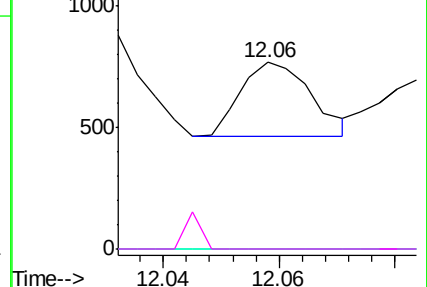


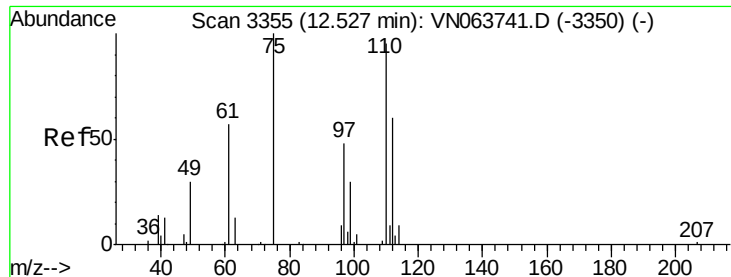
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 28.884 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064029.D

Acq: 9 Oct 2020 8:28

Instrument :

MSVOA_N

ClientSampled :

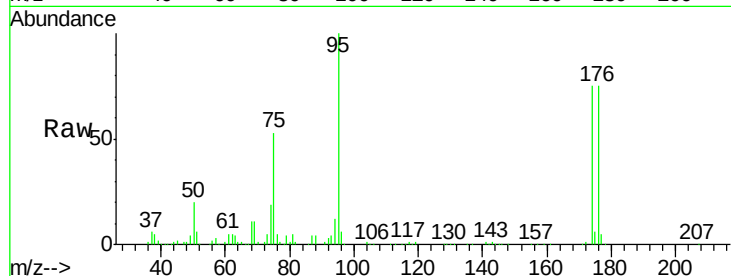
31281

Tgt Ion: 75 Resp: 124705

Ion Ratio Lower Upper

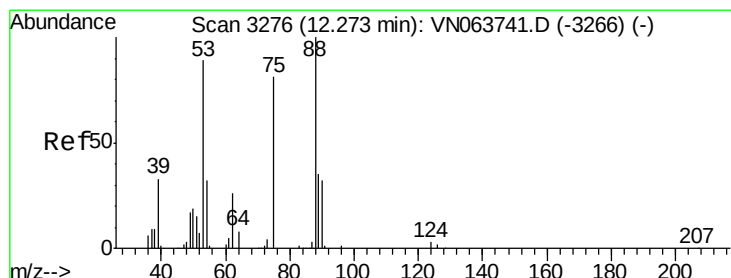
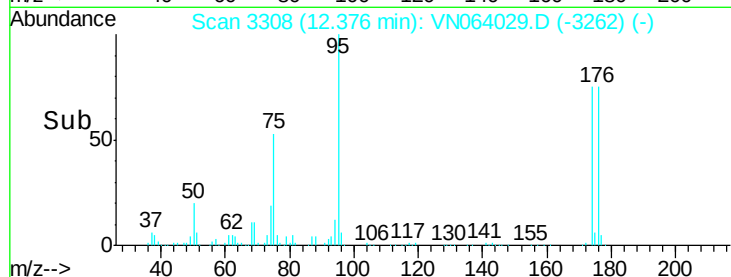
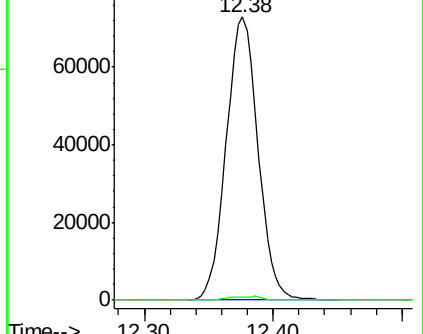
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 83.190 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064029.D

Acq: 9 Oct 2020 8:28

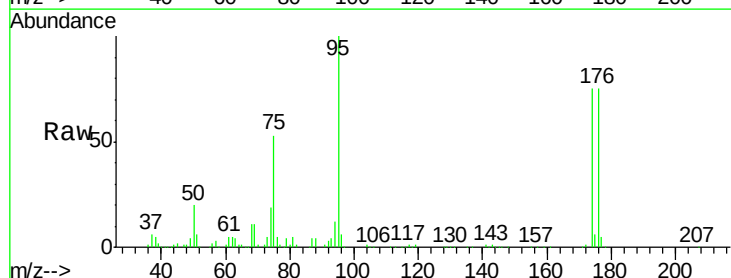
Tgt Ion: 75 Resp: 124705

Ion Ratio Lower Upper

75 100

53 0.1 88.2 132.2#

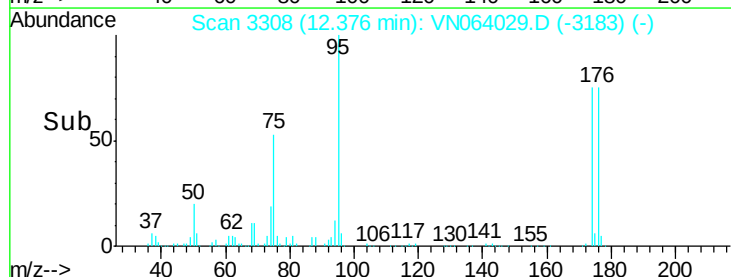
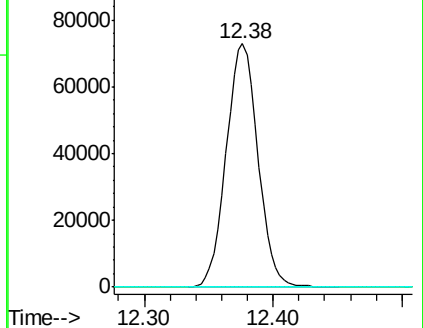
89 0.0 36.0 54.0#

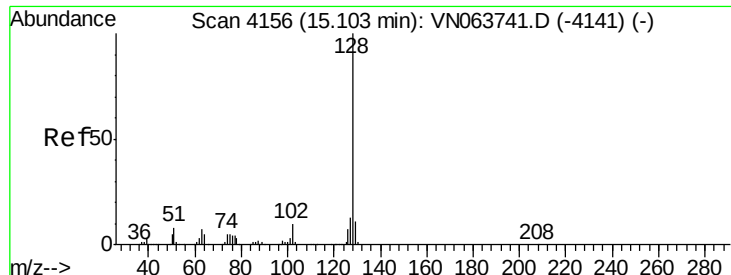


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95

Naphthalene

Concen: 1.998 ug/l

RT: 15.10 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN064029.D

Acq: 9 Oct 2020 8:28

Instrument :

MSVOA_N

ClientSampleId :

31281

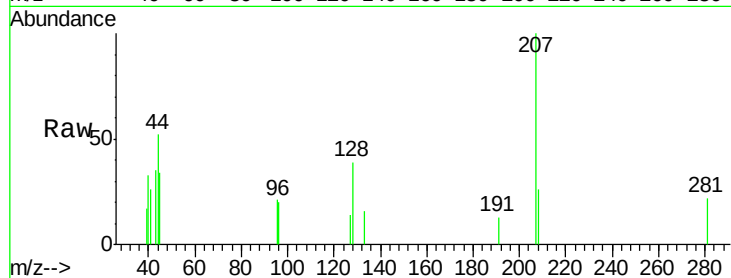
Tgt Ion:128 Resp: 809

Ion Ratio Lower Upper

128 100

127 7.7 10.5 15.7#

129 0.0 8.7 13.1#



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

