

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092120\
 Data File : VN063520.D
 Acq On : 22 Sep 2020 6:05
 Operator : JC/MD
 Sample : L4082-18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D2-20200916

Quant Time: Sep 22 06:25:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	218995	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	409155	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	413439	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	171082	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	183110	49.12	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.24%	
35) Dibromofluoromethane	7.55	113	135397	47.80	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.60%	
50) Toluene-d8	10.06	98	531896	49.94	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.88%	
62) 4-Bromofluorobenzene	12.38	95	206571	52.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.82%	

Target Compounds

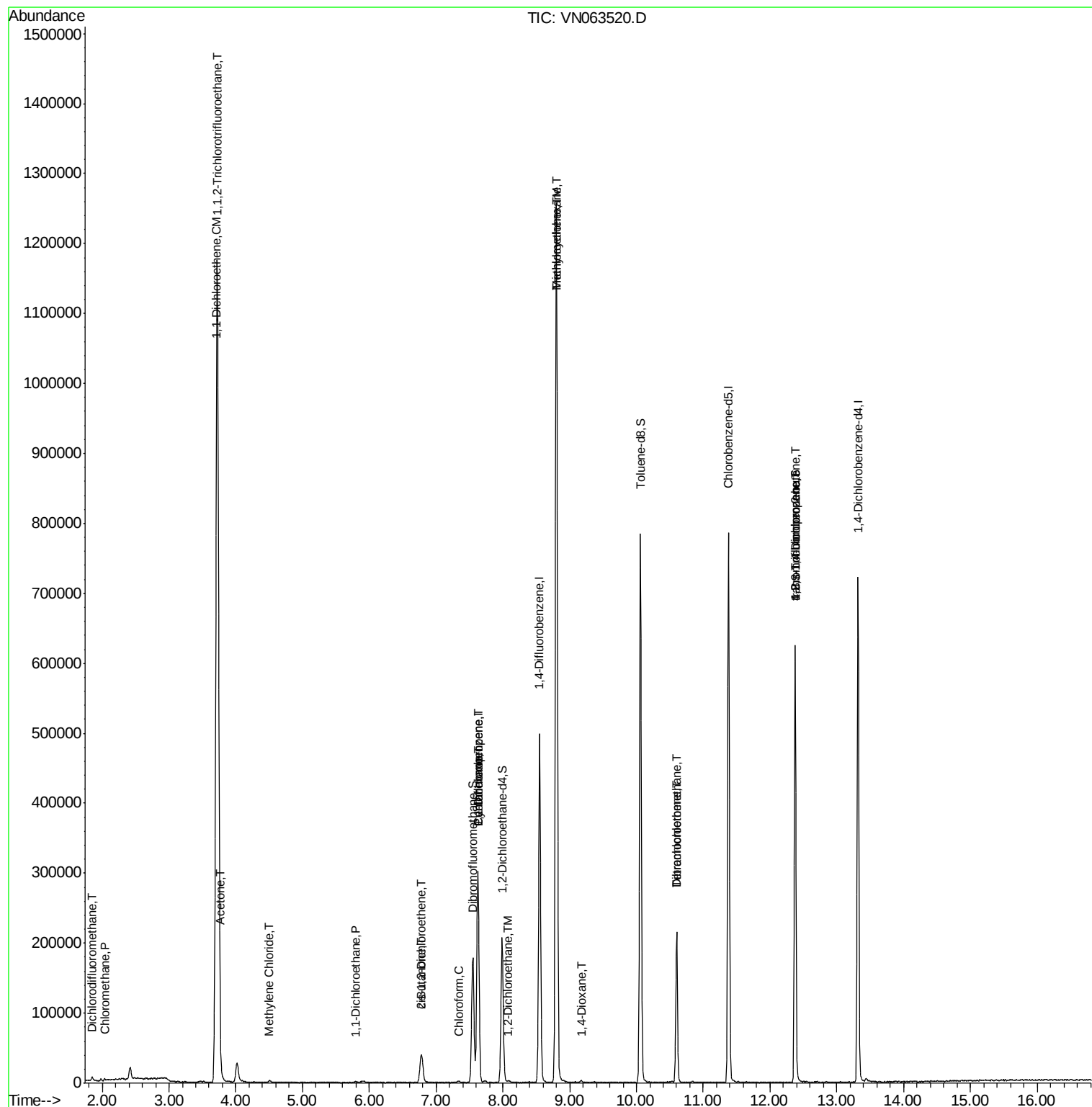
						Qvalue
2) Dichlorodifluoromethane	1.84	85	1246	0.502	ug/l	97
3) Chloromethane	2.04	50	2031	0.619	ug/l #	87
9) 1,1,2-Trichlorotrifluoroet	3.72	101	713573	292.459	ug/l	99
12) 1,1-Dichloroethene	3.70	96	7229	2.925	ug/l	82
16) Acetone	3.77	43	460	0.384	ug/l	99
20) Methylene Chloride	4.51	84	1095	0.361	ug/l #	64
24) 1,1-Dichloroethane	5.79	63	1150	0.211	ug/l #	84
25) 2-Butanone	6.77	43	1146	0.622	ug/l #	51
27) cis-1,2-Dichloroethene	6.78	96	17441	5.628	ug/l	95
30) Chloroform	7.33	83	2420	0.443	ug/l	97
31) Cyclohexane	7.62	56	6280	1.220	ug/l #	21
36) 1,1-Dichloropropene	7.62	75	20761	4.763	ug/l #	46
39) Methylcyclohexane	8.80	83	5961	1.260	ug/l #	1
42) 1,2-Dichloroethane	8.08	62	1205	0.241	ug/l #	78
44) Trichloroethene	8.80	130	427114	141.520	ug/l	100
49) 1,4-Dioxane	9.16	88	1303	24.159	ug/l #	73
60) Dibromochloromethane	10.60	129	45053	13.420	ug/l #	10
64) Tetrachloroethene	10.60	164	43294	15.379	ug/l	98
76) 1,2,3-Trichloropropane	12.38	75	115202	27.205	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	115202	74.587	ug/l #	7

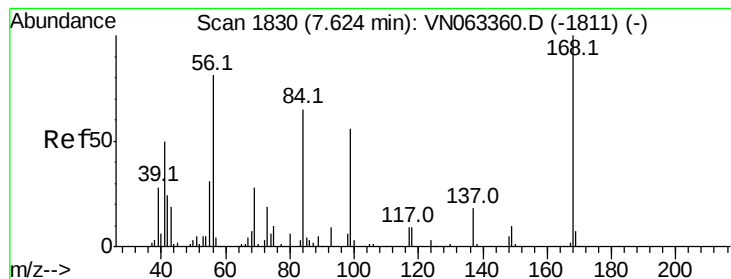
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063520.D

Acq: 22 Sep 2020 6:05

Instrument :

MSVOA_N

ClientSampleId :

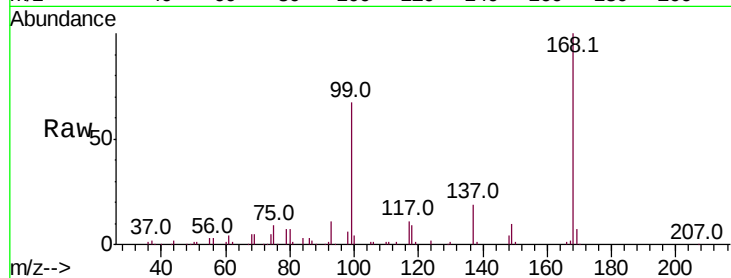
RE131D2-20200916

Tot Ion:168 Resp: 218995

Ion Ratio Lower Upper

168 100

99 66.7 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

100000

80000

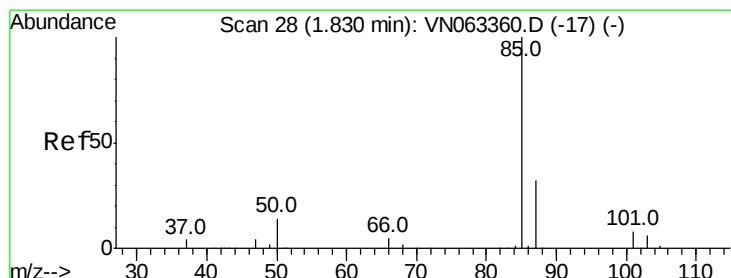
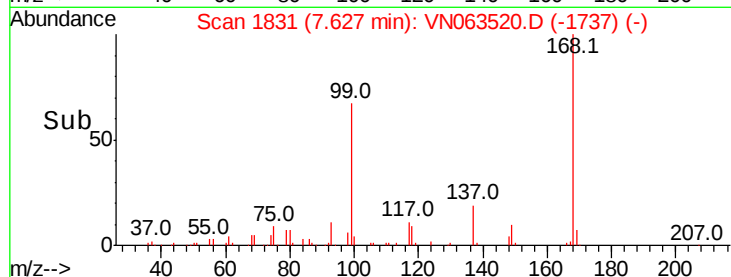
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.502 ug/l

RT: 1.84 min Scan# 30

Delta R.T. 0.01 min

Lab File: VN063520.D

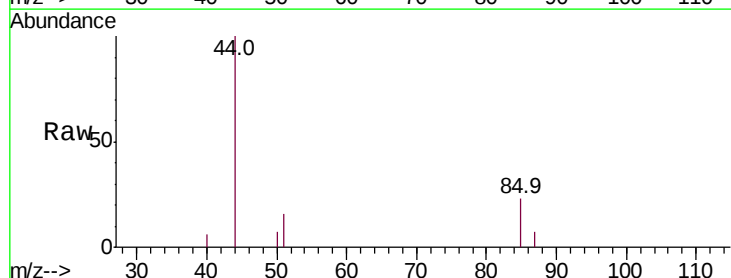
Acq: 22 Sep 2020 6:05

Tgt Ion: 85 Resp: 1246

Ion Ratio Lower Upper

85 100

87 29.9 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1000

800

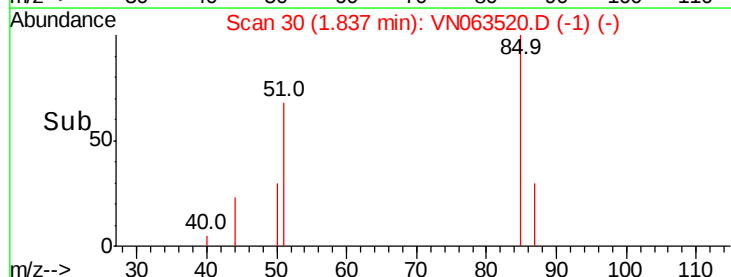
600

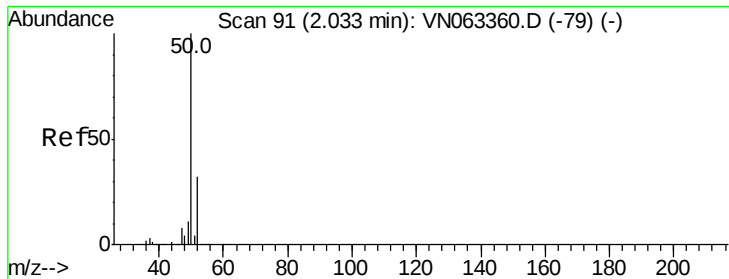
400

200

0

Time-->





#3

Chloromethane

Concen: 0.619 ug/l

RT: 2.04 min Scan# 93

Delta R.T. 0.01 min

Lab File: VN063520.D

Acq: 22 Sep 2020 6:05

Instrument :

MSVOA_N

ClientSampleId :

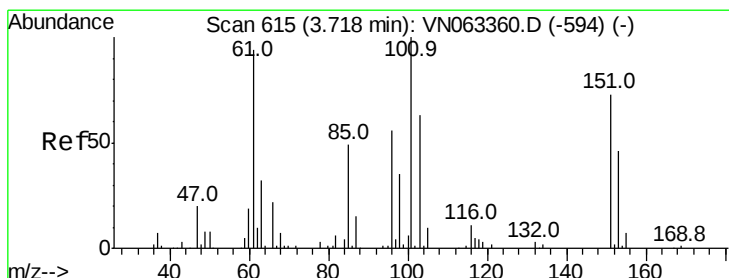
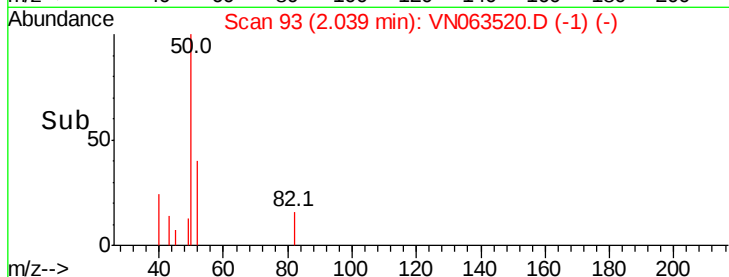
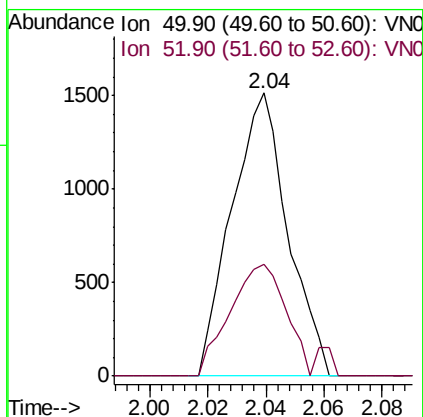
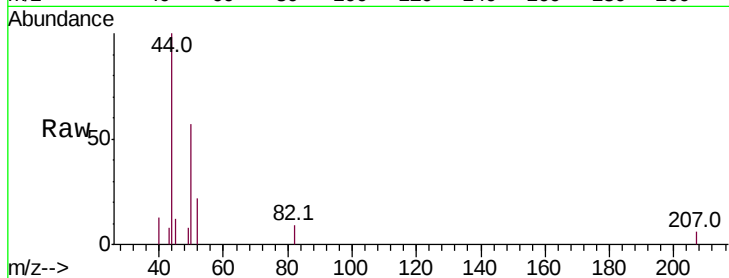
RE131D2-20200916

Tot Ion: 50 Resp: 2031

Ion Ratio Lower Upper

50 100

52 39.7 25.9 38.9#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 292.459 ug/l

RT: 3.72 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN063520.D

Acq: 22 Sep 2020 6:05

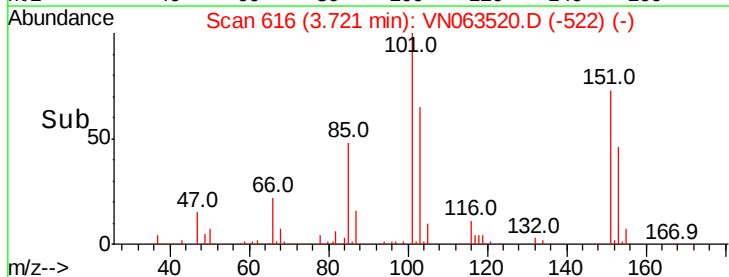
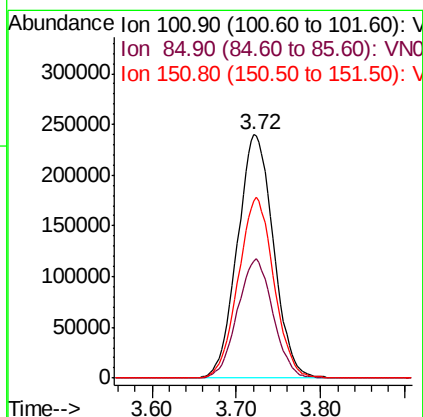
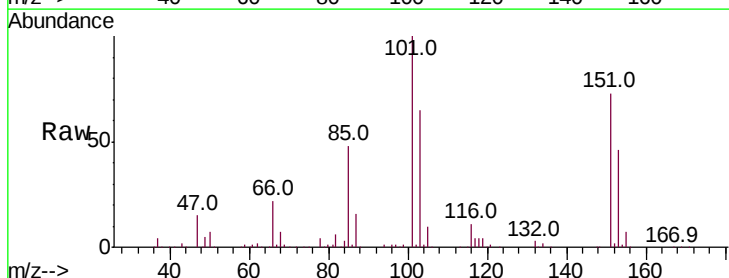
Tgt Ion:101 Resp: 713573

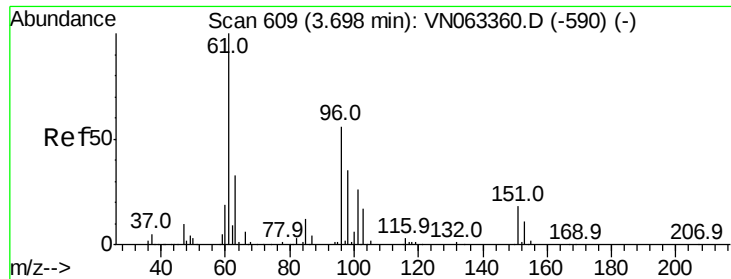
Ion Ratio Lower Upper

101 100

85 48.2 37.7 56.5

151 73.2 57.7 86.5





#12

1,1-Dichloroethene

Concen: 2.925 ug/l

RT: 3.70 min Scan# 610

Delta R.T. 0.00 min

Lab File: VN063520.D

Acq: 22 Sep 2020 6:05

Instrument :

MSVOA_N

ClientSampleId :

RE131D2-20200916

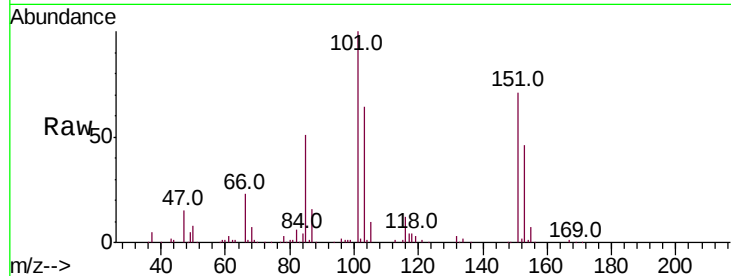
Tot Ion: 96 Resp: 7229

Ion Ratio Lower Upper

96 100

61 150.5 143.4 215.2

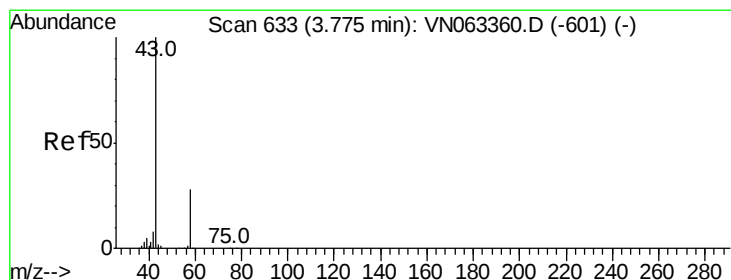
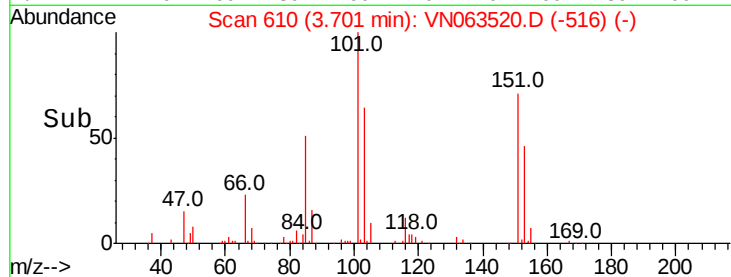
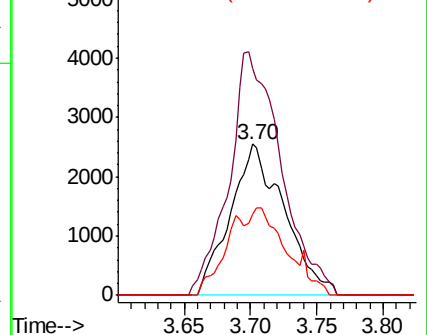
98 53.4 50.6 76.0



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#16

Acetone

Concen: 0.384 ug/l

RT: 3.77 min Scan# 632

Delta R.T. -0.00 min

Lab File: VN063520.D

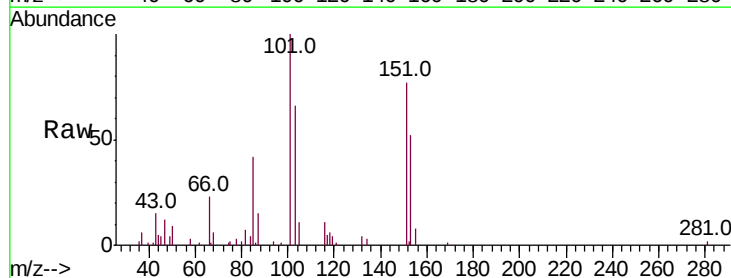
Acq: 22 Sep 2020 6:05

Tgt Ion: 43 Resp: 460

Ion Ratio Lower Upper

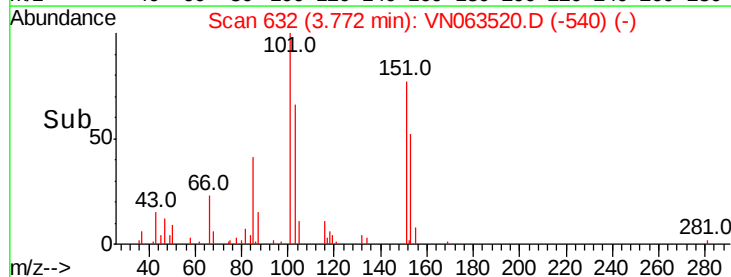
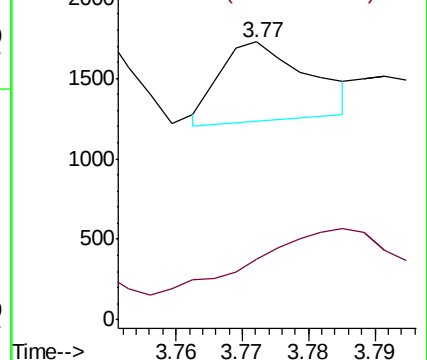
43 100

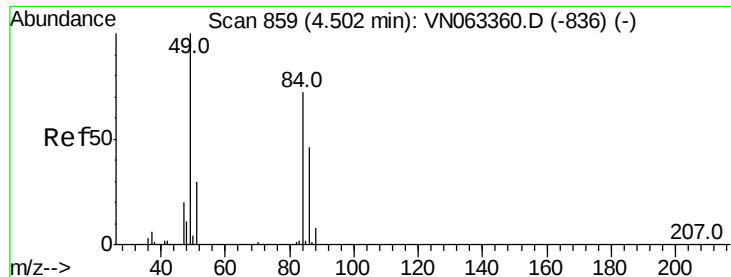
58 28.4 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#20

Methylene Chloride

Concen: 0.361 ug/l

RT: 4.51 min Scan# 861

Delta R.T. 0.01 min

Lab File: VN063520.D

Acq: 22 Sep 2020 6:05

Instrument :

MSVOA_N

ClientSampleId :

RE131D2-20200916

Tot Ion: 84 Resp: 1095

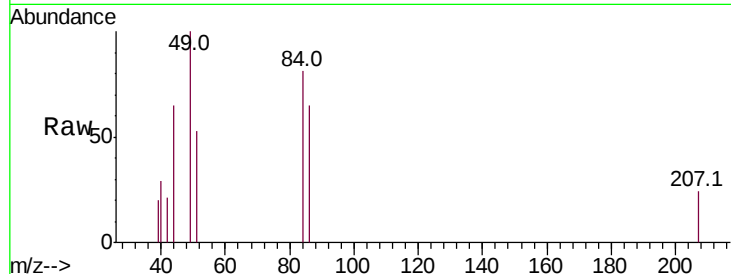
Ion Ratio Lower Upper

84 100

49 88.5 110.7 166.1#

51 65.7 32.9 49.3#

86 81.0 51.1 76.7#

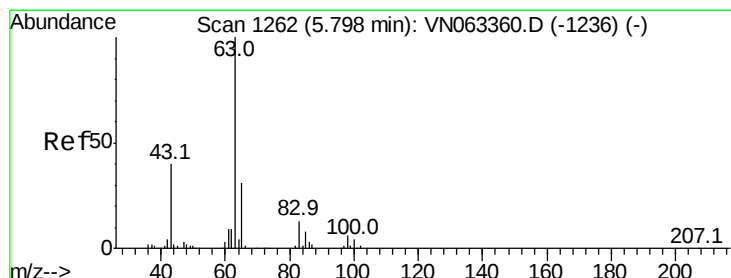
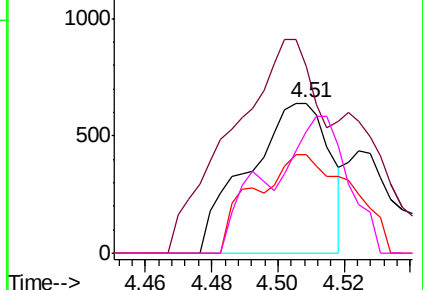
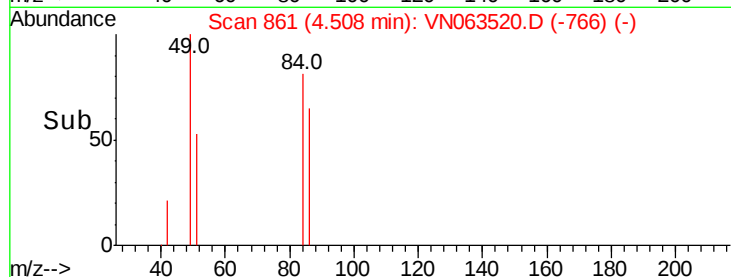


Abundance Ion 83.90 (83.60 to 84.60): VNO

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



#24

1,1-Dichloroethane

Concen: 0.211 ug/l

RT: 5.79 min Scan# 1260

Delta R.T. -0.01 min

Lab File: VN063520.D

Acq: 22 Sep 2020 6:05

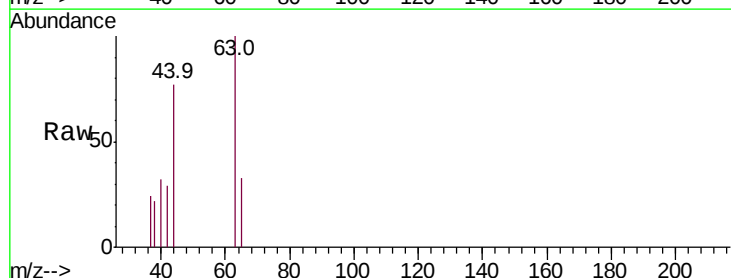
Tgt Ion: 63 Resp: 1150

Ion Ratio Lower Upper

63 100

98 0.0 2.9 8.8#

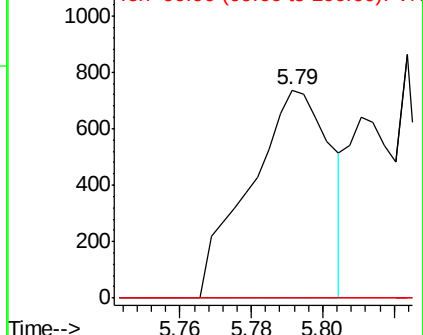
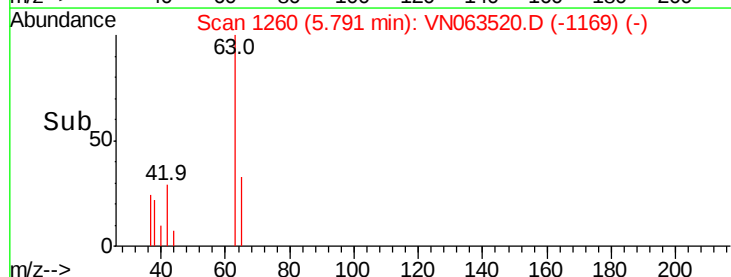
100 0.0 2.1 6.3#

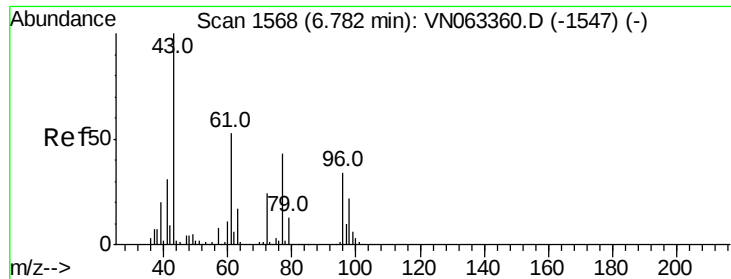


Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 97.90 (97.60 to 98.60): VNO

Ion 99.90 (99.60 to 100.60): VNO

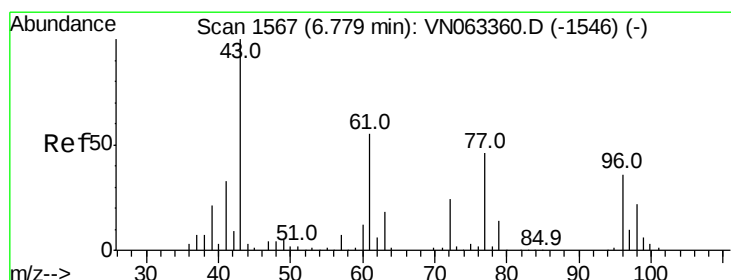
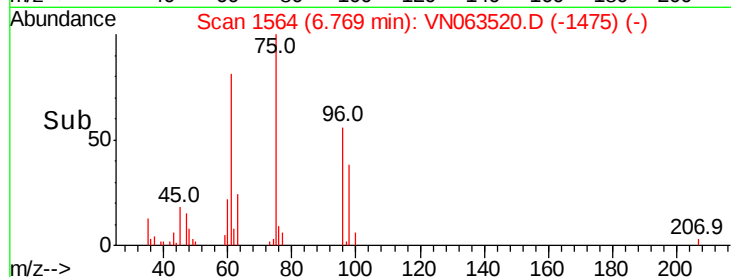
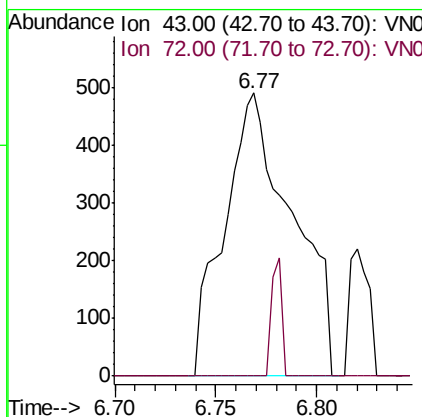
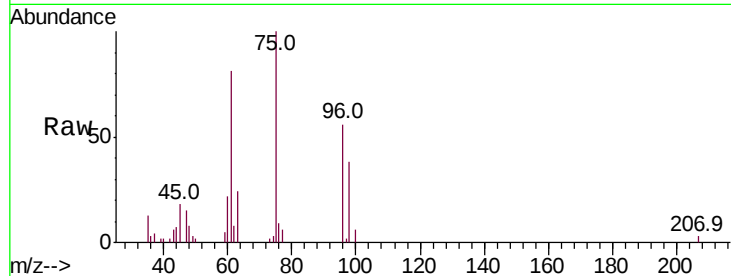




#25
2-Butanone
Concen: 0.622 ug/l
RT: 6.77 min Scan# 1564
Delta R.T. -0.01 min
Lab File: VN063520.D
Acq: 22 Sep 2020 6:05

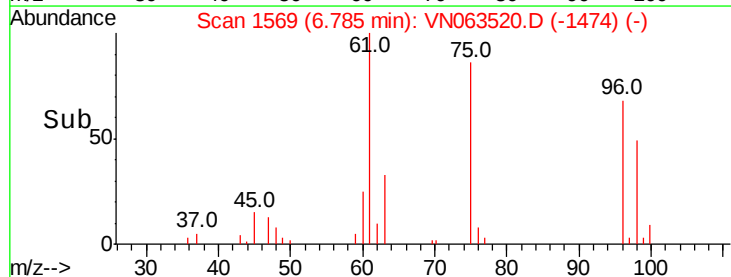
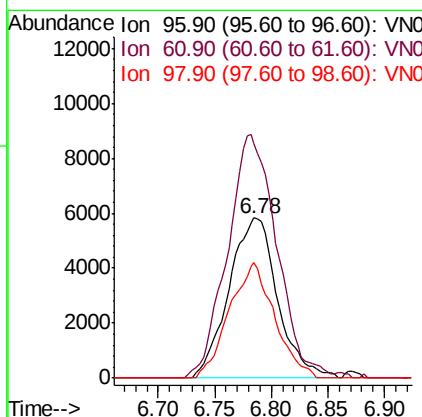
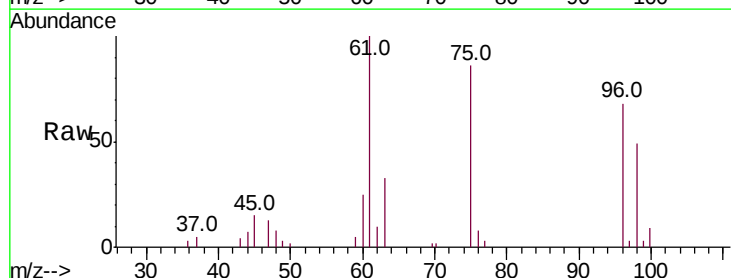
Instrument :
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RE131D2-20200916

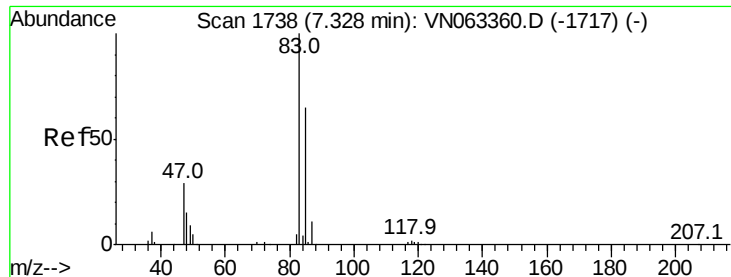
Tot Ion: 43 Resp: 1146
Ion Ratio Lower Upper
43 100
72 0.0 19.2 28.8#



#27
cis-1,2-Dichloroethene
Concen: 5.628 ug/l
RT: 6.78 min Scan# 1569
Delta R.T. 0.01 min
Lab File: VN063520.D
Acq: 22 Sep 2020 6:05

Tgt Ion: 96 Resp: 17441
Ion Ratio Lower Upper
96 100
61 153.5 0.0 319.6
98 66.9 0.0 127.8





#30

Chloroform

Concen: 0.443 ug/l

RT: 7.33 min Scan# 1739

Delta R.T. 0.00 min

Lab File: VN063520.D

Acq: 22 Sep 2020 6:05

Instrument :

MSVOA_N

ClientSampleId :

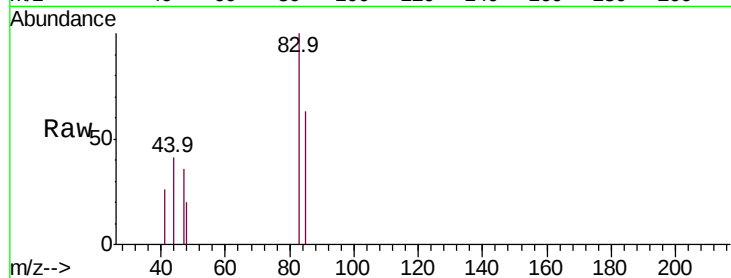
RE131D2-20200916

Tot Ion: 83 Resp: 2420

Ion Ratio Lower Upper

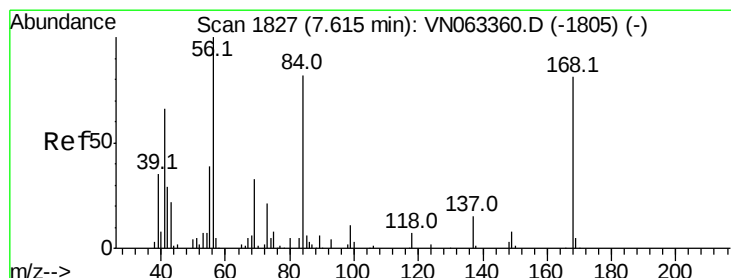
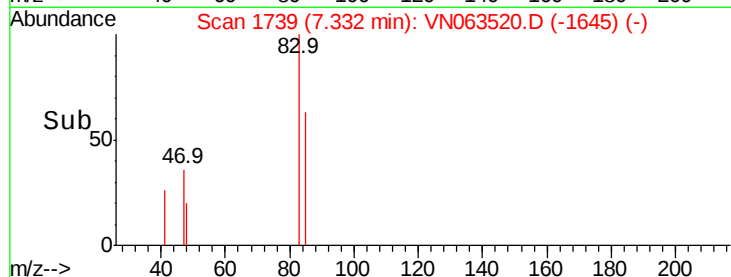
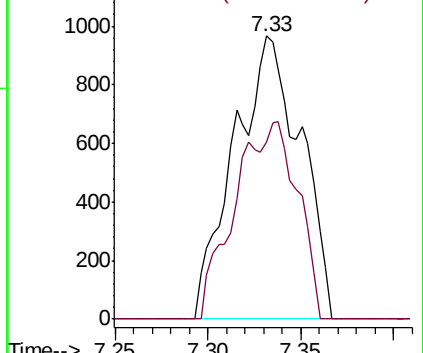
83 100

85 62.8 52.1 78.1



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 84.90 (84.60 to 85.60): VNO



#31

Cyclohexane

Concen: 1.220 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063520.D

Acq: 22 Sep 2020 6:05

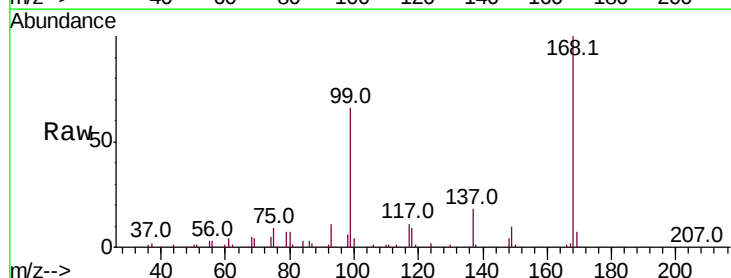
Tgt Ion: 56 Resp: 6280

Ion Ratio Lower Upper

56 100

69 154.9 26.1 39.1#

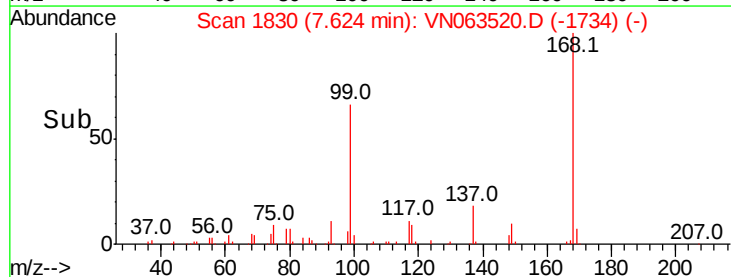
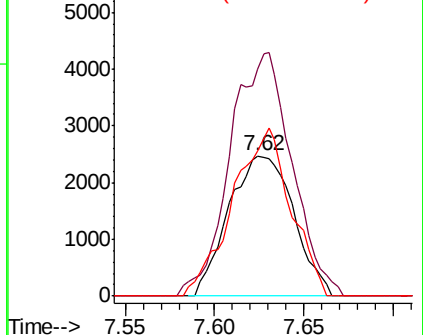
84 103.1 65.4 98.2#

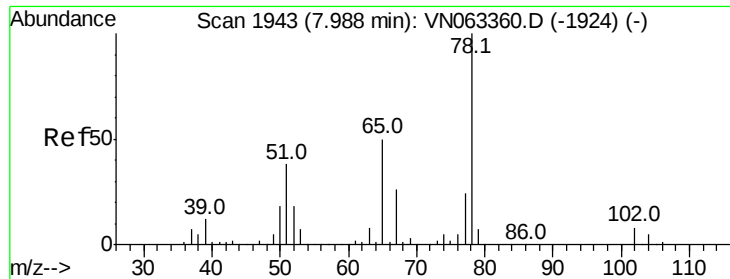


Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 84.00 (83.70 to 84.70): VNO

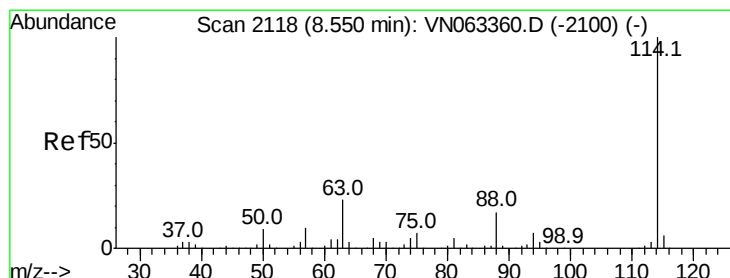
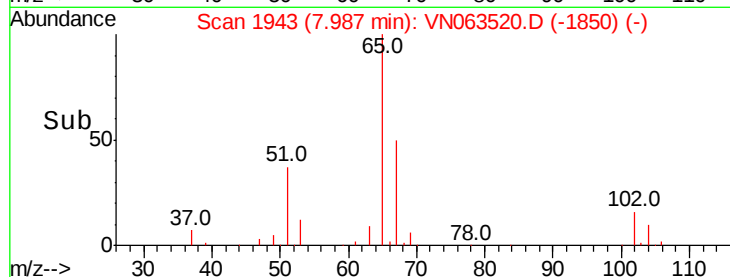
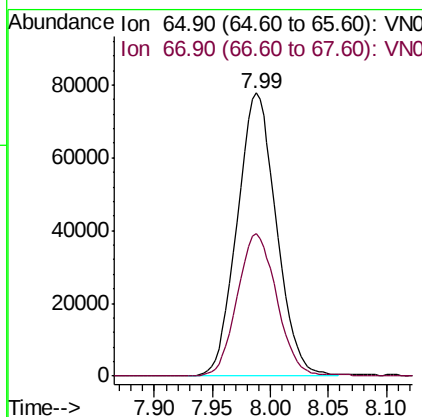
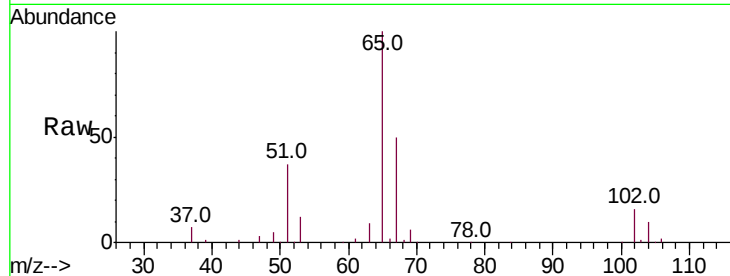




#33
 1,2-Dichloroethane-d4
 Concen: 49.119 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN063520.D
 Acq: 22 Sep 2020 6:05

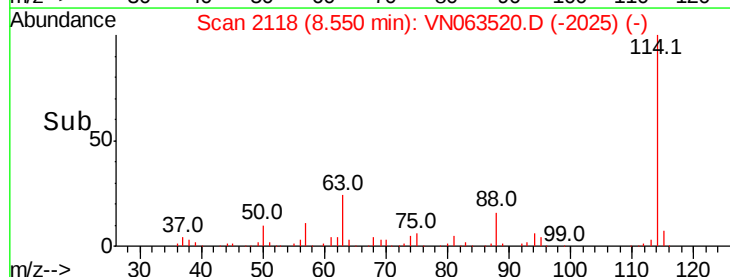
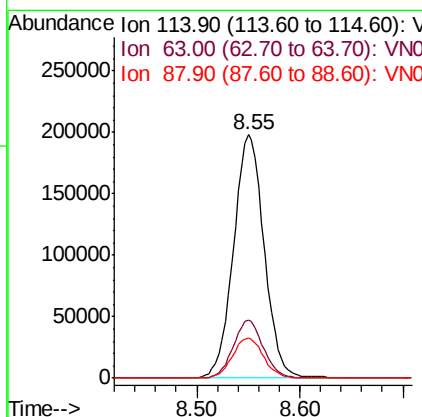
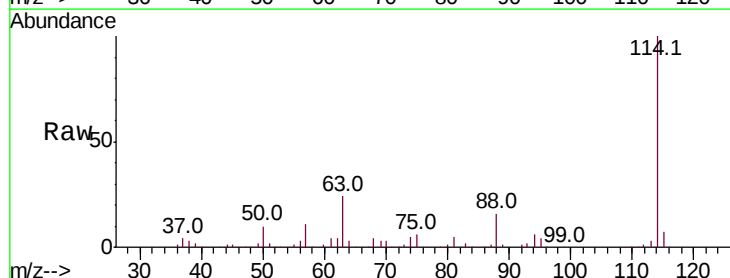
Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D2-20200916

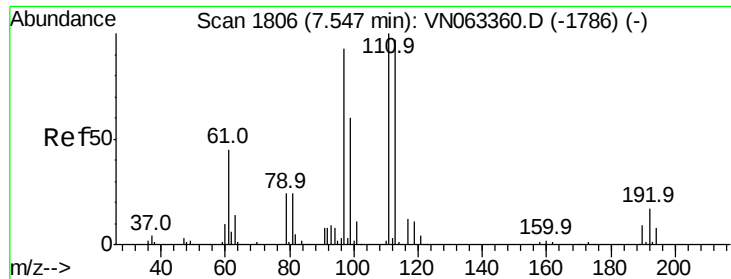
Tot Ion: 65 Resp: 183110
 Ion Ratio Lower Upper
 65 100
 67 50.5 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063520.D
 Acq: 22 Sep 2020 6:05

Tgt Ion: 114 Resp: 409155
 Ion Ratio Lower Upper
 114 100
 63 23.9 0.0 46.4
 88 16.3 0.0 33.2





#35

Dibromofluoromethane

Concen: 47.801 ug/l

RT: 7.55 min Scan# 1806

Delta R.T. -0.00 min

Lab File: VN063520.D

Acq: 22 Sep 2020 6:05

Instrument :

MSVOA_N

ClientSampleId :

RE131D2-20200916

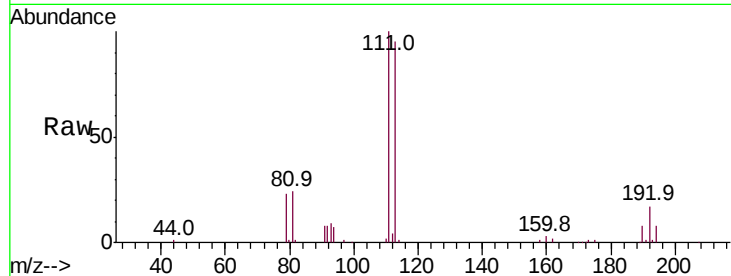
Tot Ion:113 Resp: 135397

Ion Ratio Lower Upper

113 100

111 102.8 82.9 124.3

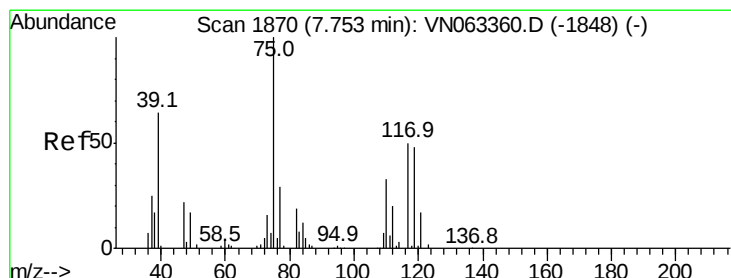
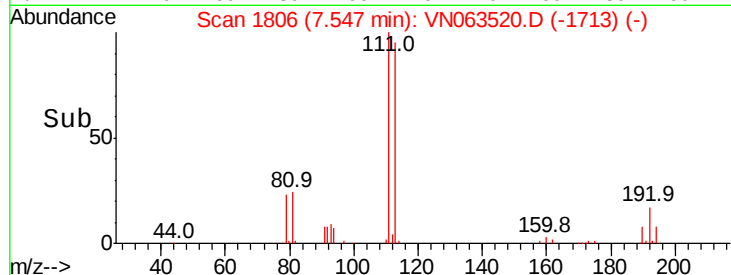
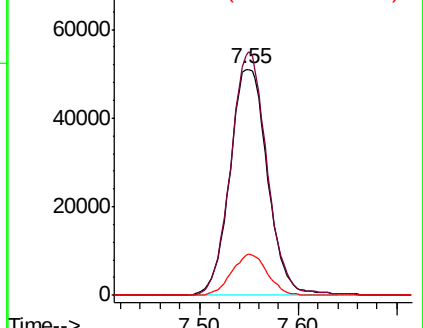
192 17.3 13.9 20.9



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: 4.763 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN063520.D

Acq: 22 Sep 2020 6:05

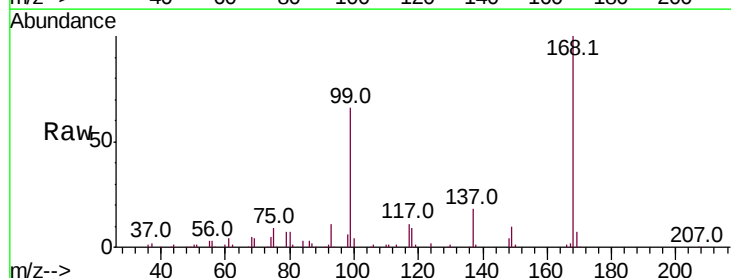
Tgt Ion: 75 Resp: 20761

Ion Ratio Lower Upper

75 100

110 3.2 16.5 49.5#

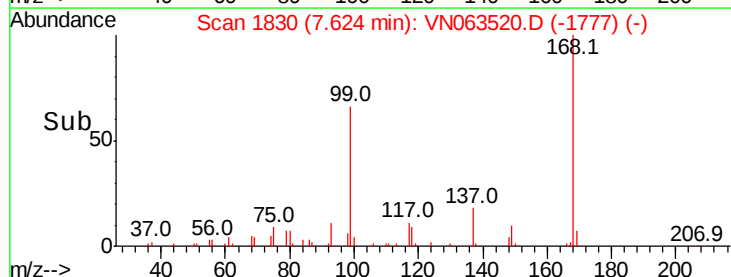
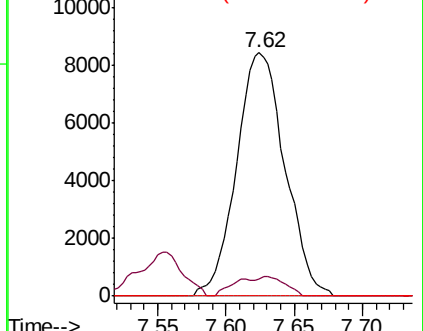
77 0.0 24.6 36.8#

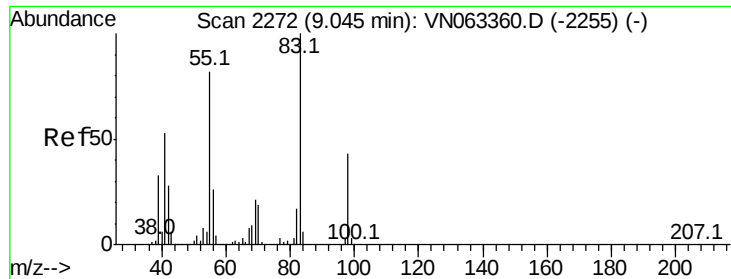


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

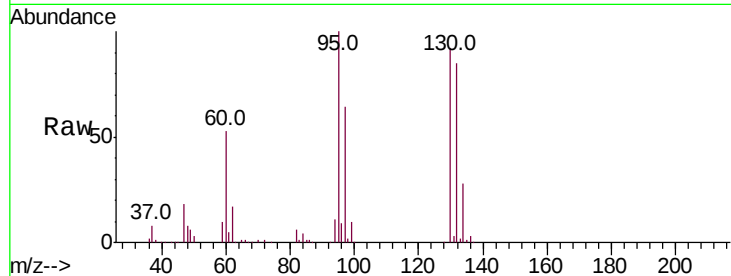




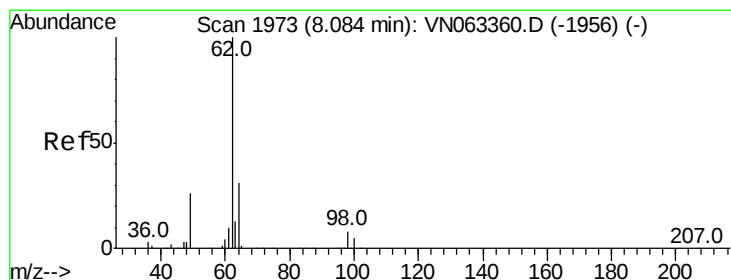
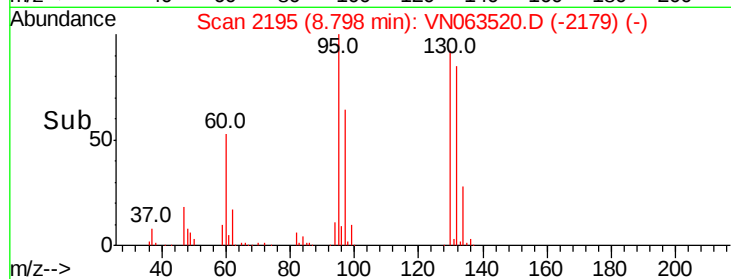
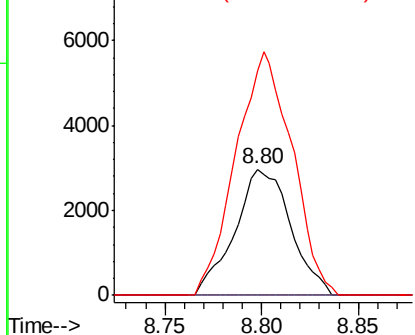
#39
Methvlcvclohexane
Concen: 1.260 ug/l
RT: 8.80 min Scan# 2195
Delta R.T. -0.25 min
Lab File: VN063520.D
Acq: 22 Sep 2020 6:05

Instrument :
MSVOA_N
ClientSampleId :
RE131D2-20200916

Tot Ion: 83 Resp: 5961
Ion Ratio Lower Upper
83 100
55 0.0 65.5 98.3#
98 177.8 34.2 51.4#

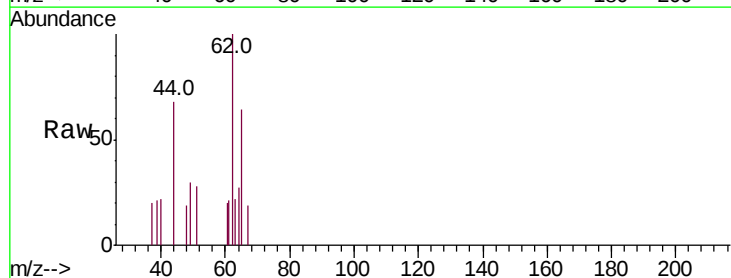


Abundance Ion 83.00 (82.70 to 83.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 98.00 (97.70 to 98.70): VNO

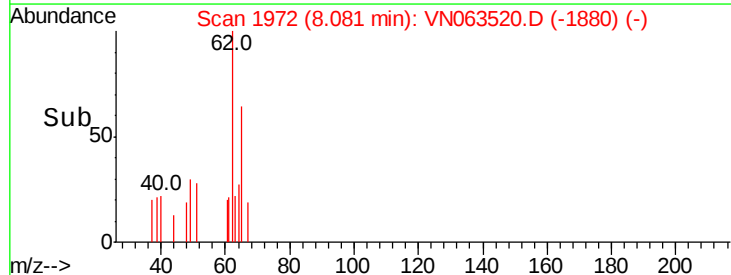
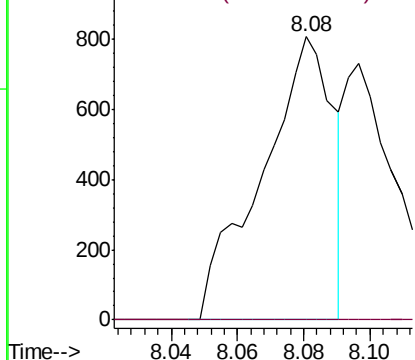


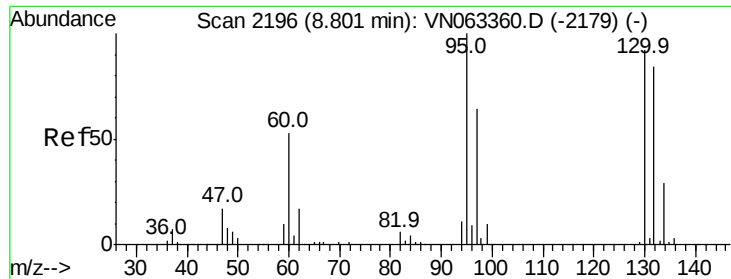
#42
1,2-Dichloroethane
Concen: 0.241 ug/l
RT: 8.08 min Scan# 1972
Delta R.T. -0.00 min
Lab File: VN063520.D
Acq: 22 Sep 2020 6:05

Tgt Ion: 62 Resp: 1205
Ion Ratio Lower Upper
62 100
98 0.0 0.0 15.6



Abundance Ion 61.90 (61.60 to 62.60): VNO
Ion 97.90 (97.60 to 98.60): VNO





#44

Trichloroethene

Concen: 141.520 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN063520.D

Acq: 22 Sep 2020 6:05

Instrument :

MSVOA_N

ClientSampleId :

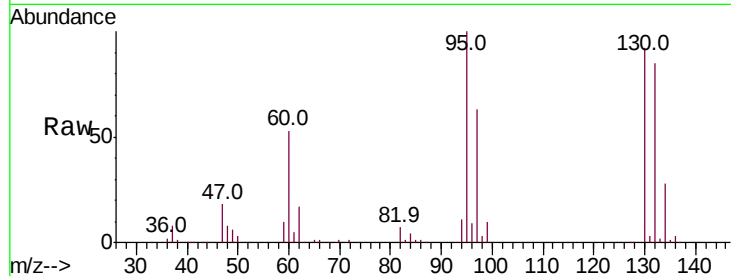
RE131D2-20200916

Tot Ion:130 Resp: 427114

Ion Ratio Lower Upper

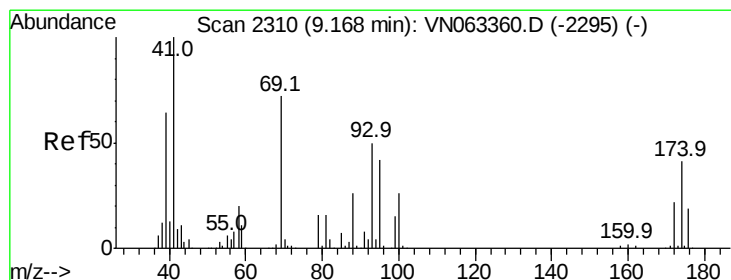
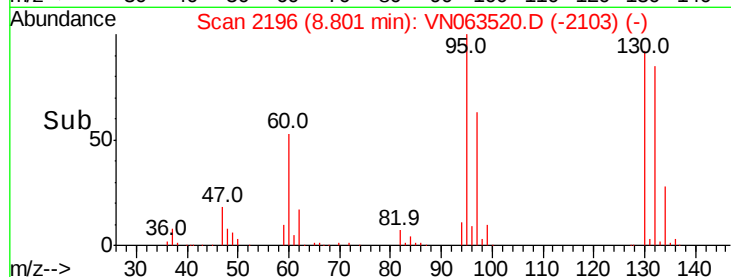
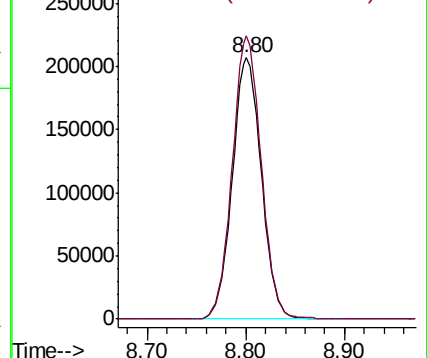
130 100

95 108.4 0.0 217.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#49

1,4-Dioxane

Concen: 24.159 ug/l

RT: 9.16 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN063520.D

Acq: 22 Sep 2020 6:05

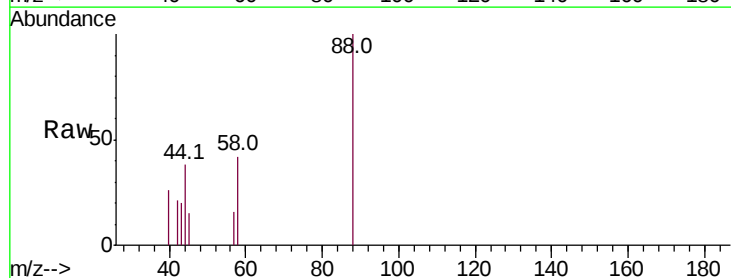
Tgt Ion: 88 Resp: 1303

Ion Ratio Lower Upper

88 100

43 7.8 32.6 49.0#

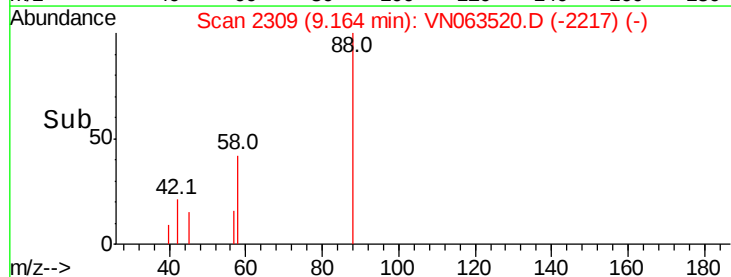
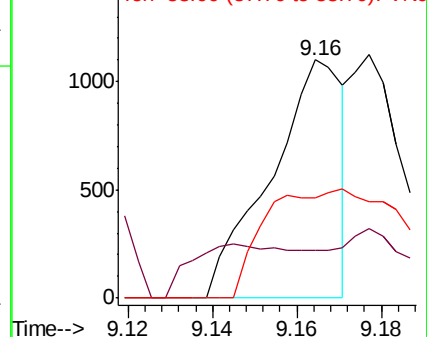
58 86.6 60.0 90.0

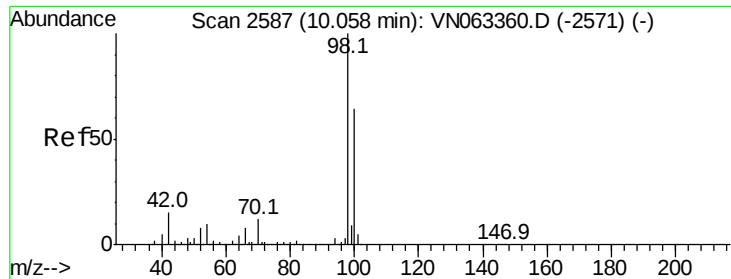


Abundance Ion 88.00 (87.70 to 88.70): VN

Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN





#50

Toluene-d8

Concen: 49.940 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063520.D

Acq: 22 Sep 2020 6:05

Instrument :

MSVOA_N

ClientSampleId :

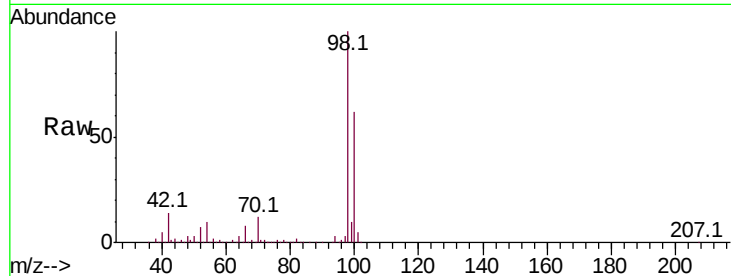
RE131D2-20200916

Tot Ion: 98 Resp: 531896

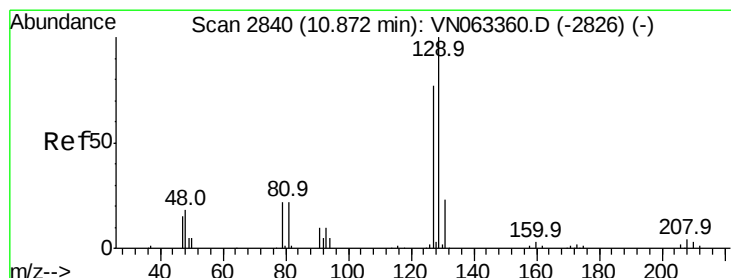
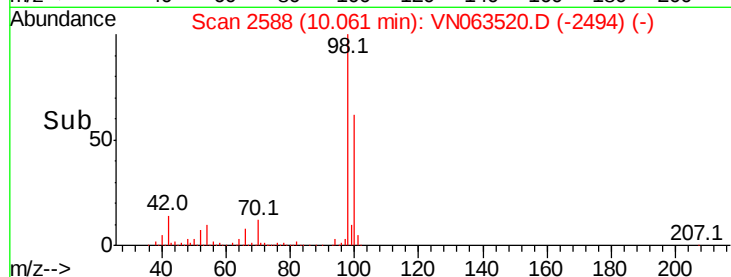
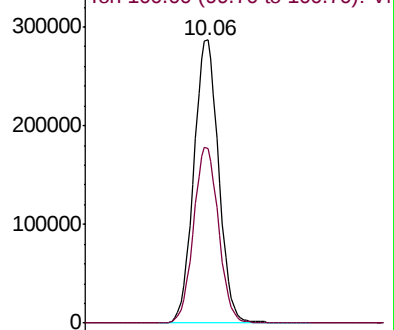
Ion Ratio Lower Upper

98 100

100 62.5 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN063360.D (-2571) (-)



#60

Dibromochloromethane

Concen: 13.420 ug/l

RT: 10.60 min Scan# 2756

Delta R.T. -0.27 min

Lab File: VN063520.D

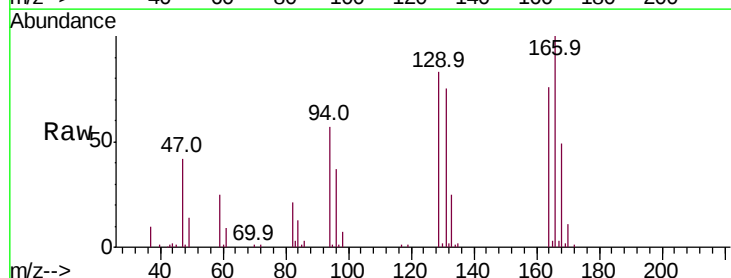
Acq: 22 Sep 2020 6:05

Tgt Ion: 129 Resp: 45053

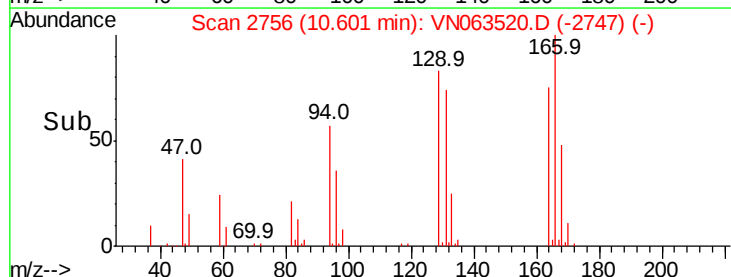
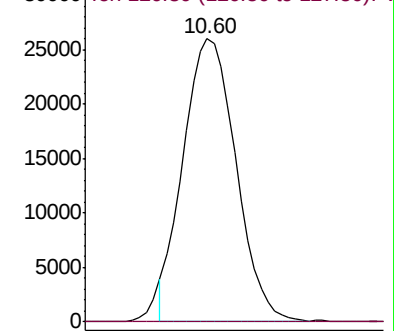
Ion Ratio Lower Upper

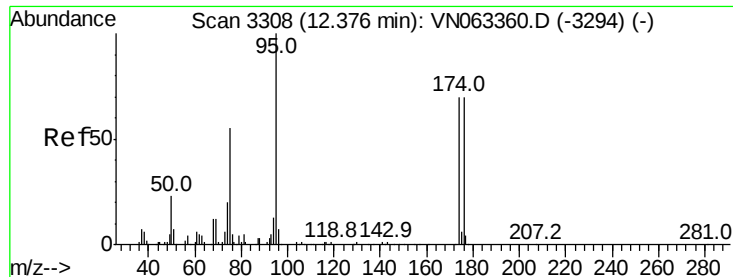
129 100

127 0.0 39.1 117.3#



Abundance Ion 128.80 (128.50 to 129.50): VN063360.D (-2826) (-)





#62

4-Bromofluorobenzene

Concen: 52.908 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063520.D

Acq: 22 Sep 2020 6:05

Instrument :

MSVOA_N

ClientSampleId :

RE131D2-20200916

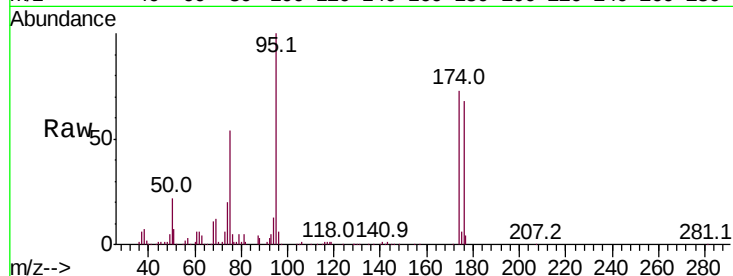
Tot Ion: 95 Resp: 206571

Ion Ratio Lower Upper

95 100

174 73.2 0.0 140.8

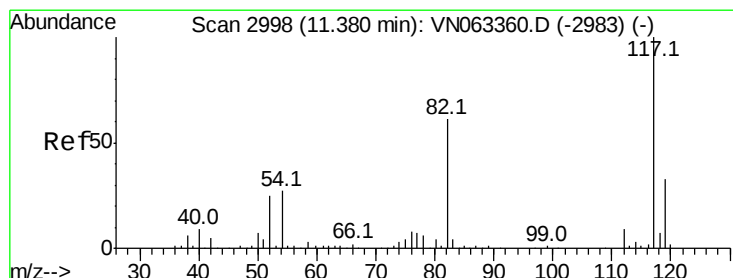
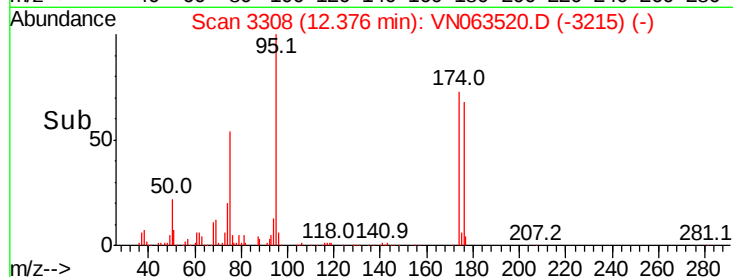
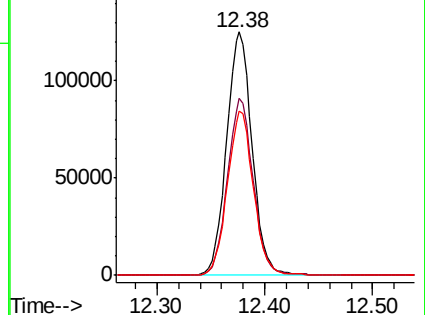
176 68.5 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN063520.D (-2905) (-)

Ion 173.80 (173.50 to 174.50): VN063520.D (-2905) (-)

Ion 175.80 (175.50 to 176.50): VN063520.D (-2905) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063520.D

Acq: 22 Sep 2020 6:05

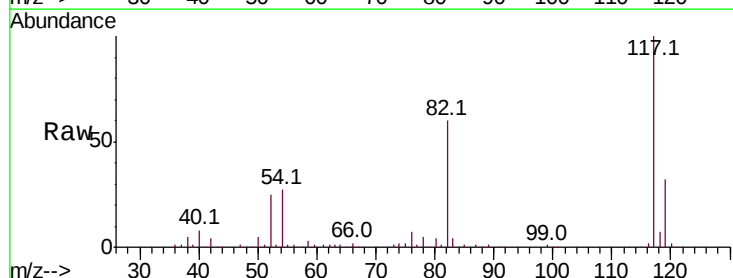
Tgt Ion: 117 Resp: 413439

Ion Ratio Lower Upper

117 100

82 60.4 49.2 73.8

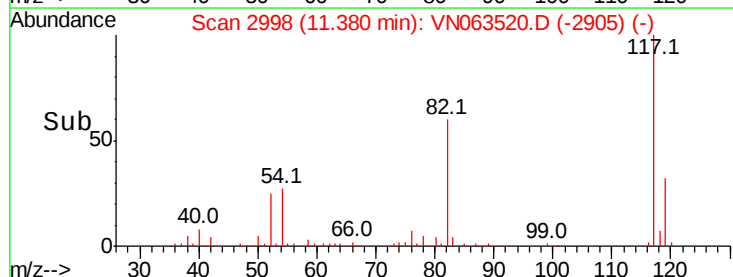
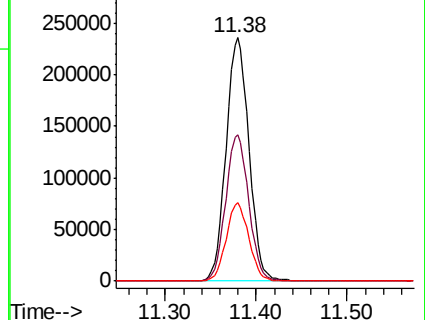
119 32.0 26.2 39.4

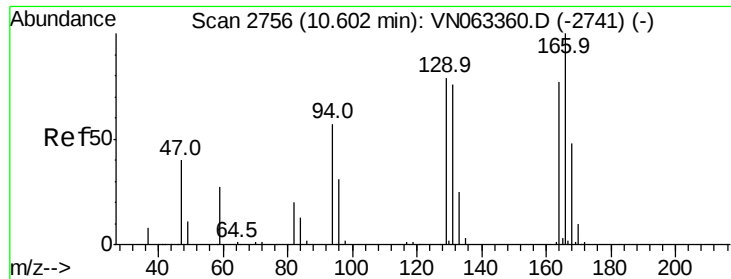


Abundance Ion 116.90 (116.60 to 117.60): VN063520.D (-2905) (-)

Ion 82.00 (81.70 to 82.70): VN063520.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN063520.D (-2905) (-)





#64

Tetrachloroethene

Concen: 15.379 ug/l

RT: 10.60 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VN063520.D

Acq: 22 Sep 2020 6:05

Instrument :

MSVOA_N

ClientSampleId :

RE131D2-20200916

Tot Ion:164 Resp: 43294

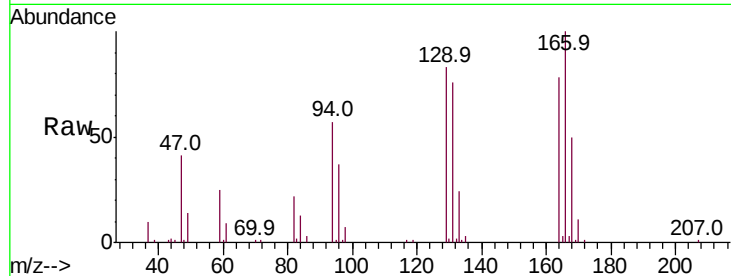
Ion Ratio Lower Upper

164 100

166 127.4 103.4 155.0

129 105.9 81.8 122.6

131 96.8 78.2 117.4



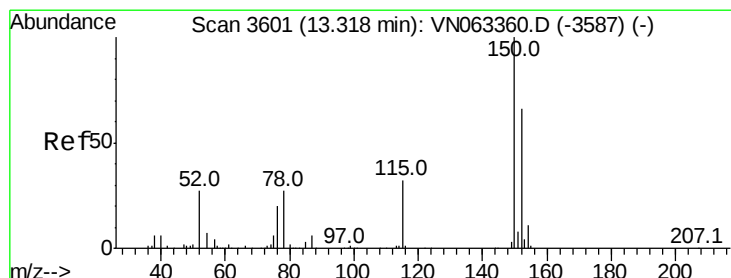
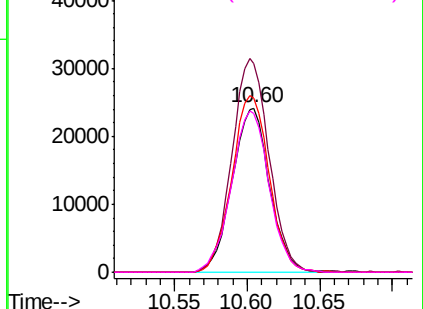
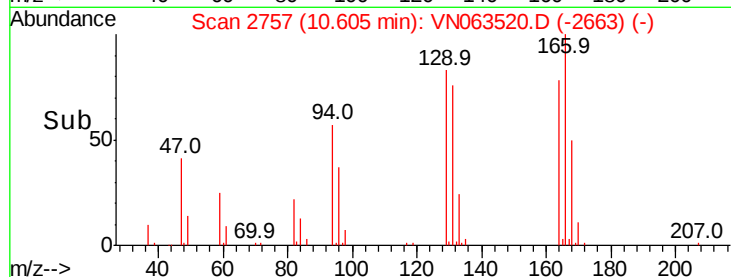
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VN063520.D

Acq: 22 Sep 2020 6:05

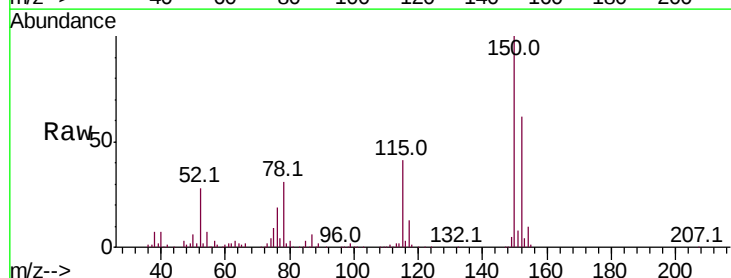
Tgt Ion:152 Resp: 171082

Ion Ratio Lower Upper

152 100

115 67.2 32.2 96.6

150 163.1 0.0 343.4

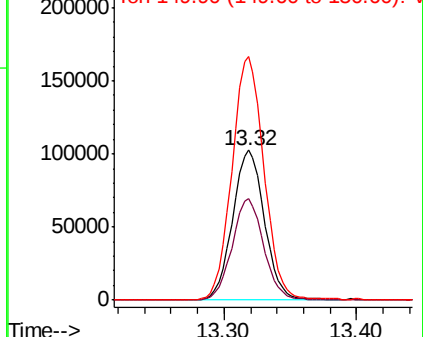
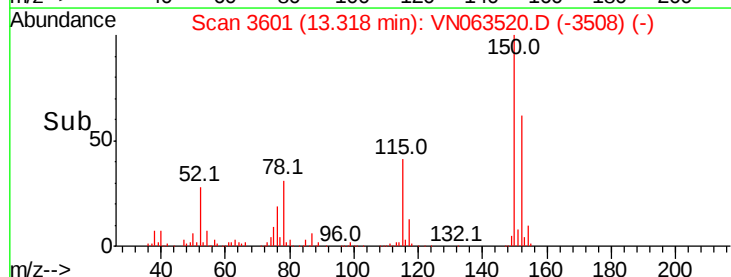


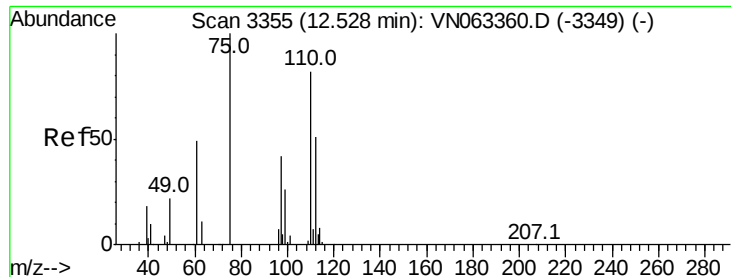
Abundance

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: 27.205 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063520.D

Acq: 22 Sep 2020 6:05

Instrument :

MSVOA_N

ClientSampleId :

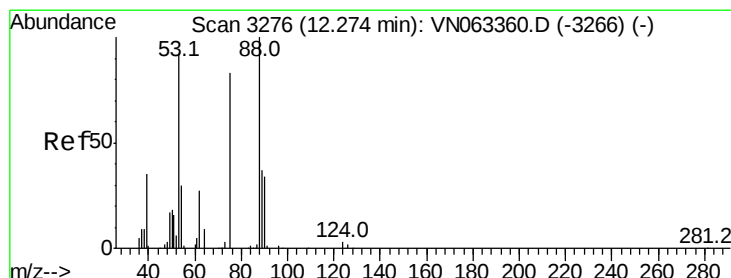
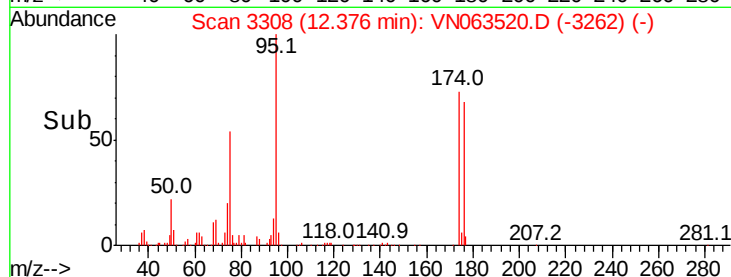
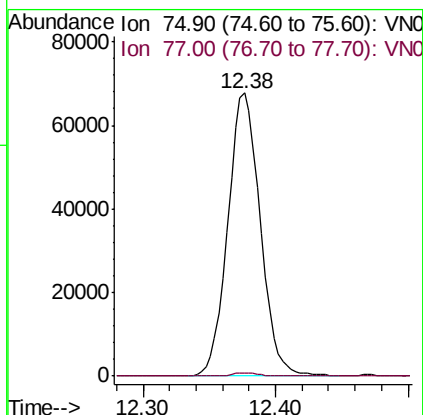
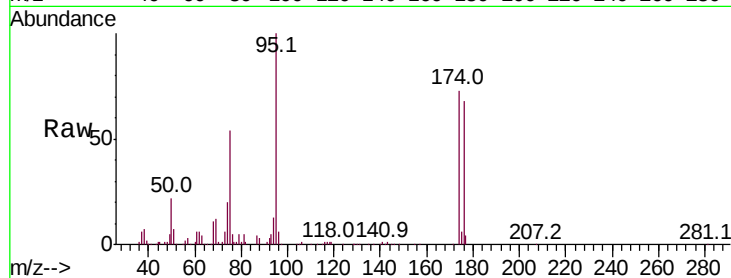
RE131D2-20200916

Tot Ion: 75 Resp: 115202

Ion Ratio Lower Upper

75 100

77 0.9 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 74.587 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063520.D

Acq: 22 Sep 2020 6:05

Tgt Ion: 75 Resp: 115202

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

