

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092220\
 Data File : VN063536.D
 Acq On : 22 Sep 2020 16:32
 Operator : JC/MD
 Sample : L4082-11DL 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE134D4-20200915DL

Quant Time: Sep 23 04:01:56 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	7.62	168	202325	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	382431	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	386959	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	174234	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	173832	50.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.94%	
35) Dibromofluoromethane	7.55	113	124766	47.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.26%	
50) Toluene-d8	10.06	98	487049	48.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.84%	
62) 4-Bromofluorobenzene	12.38	95	196756	53.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.84%	

Target Compounds

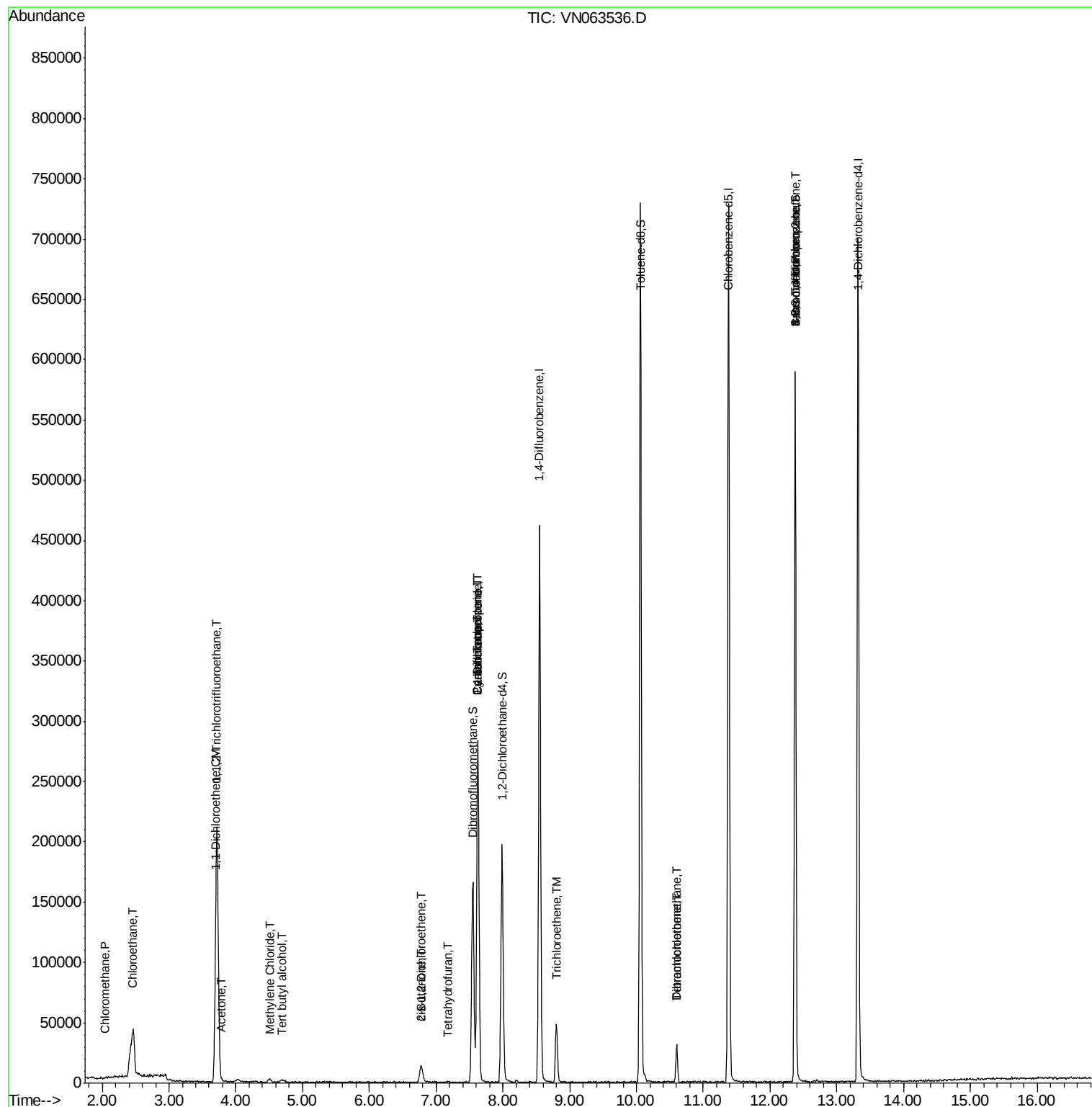
					Qvalue	
3) Chloromethane	2.04	50	766	0.253	ug/l	90
6) Chloroethane	2.45	64	850	0.515	ug/l #	41
9) 1,1,2-Trichlorotrifluoroet	3.71	101	130258	57.785	ug/l	100
11) Tert butyl alcohol	4.69	59	472	0.989	ug/l #	72
12) 1,1-Dichloroethene	3.69	96	474	0.208	ug/l #	52
16) Acetone	3.79	43	605	0.547	ug/l #	47
20) Methylene Chloride	4.50	84	1553	0.554	ug/l #	91
25) 2-Butanone	6.78	43	993	0.583	ug/l #	51
27) cis-1,2-Dichloroethene	6.78	96	581	0.203	ug/l	32
29) Tetrahydrofuran	7.17	42	311	0.267	ug/l #	70
31) Cyclohexane	7.62	56	6408	1.347	ug/l #	41
36) 1,1-Dichloropropene	7.62	75	20218	4.962	ug/l #	50
38) Carbon Tetrachloride	7.63	117	23357	5.616	ug/l #	18
44) Trichloroethene	8.80	130	15985	5.667	ug/l	98
60) Dibromochloromethane	10.61	129	6708	2.138	ug/l #	10
64) Tetrachloroethene	10.60	164	6605	2.507	ug/l	86
71) Bromoform	12.38	173	880	0.392	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	112303	26.041	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	112303	71.395	ug/l #	7

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN092220\
Data File : VN063536.D
Acq On : 22 Sep 2020 16:32
Operator : JC/MD
Sample : L4082-11DL 5X
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RE134D4-20200915DL

Quant Time: Sep 23 04:01:56 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 16 13:05:20 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: VN063536.D

Acq: 22 Sep 2020 16:32

Instrument :

MSVOA_N

ClientSampleId :

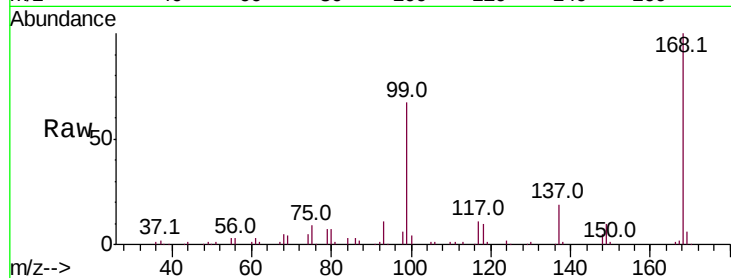
RE134D4-20200915DL

Tot Ion:168 Resp: 202325

Ion Ratio Lower Upper

168 100

99 66.9 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.62

80000

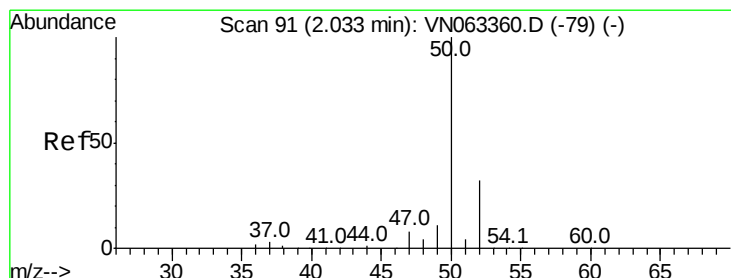
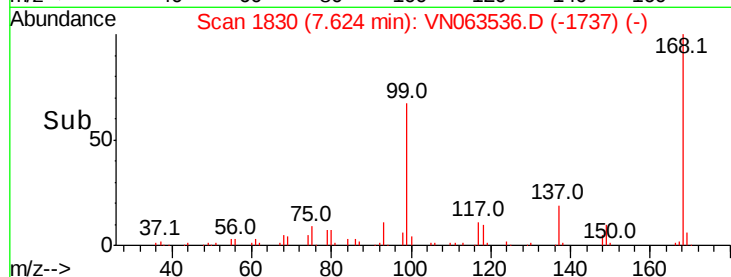
60000

40000

20000

0

Time--> 7.50 7.55 7.60 7.65 7.70



#3

Chloromethane

Concen: 0.253 ug/l

RT: 2.04 min Scan# 92

Delta R.T. 0.00 min

Lab File: VN063536.D

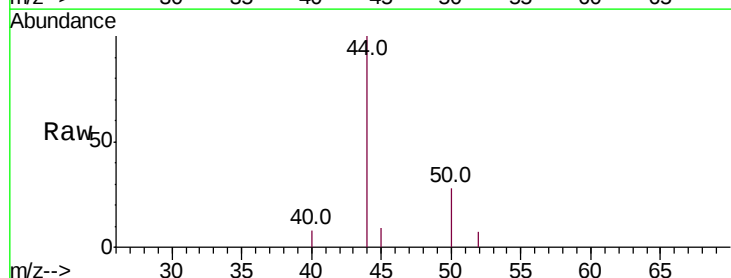
Acq: 22 Sep 2020 16:32

Tgt Ion: 50 Resp: 766

Ion Ratio Lower Upper

50 100

52 26.6 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

800

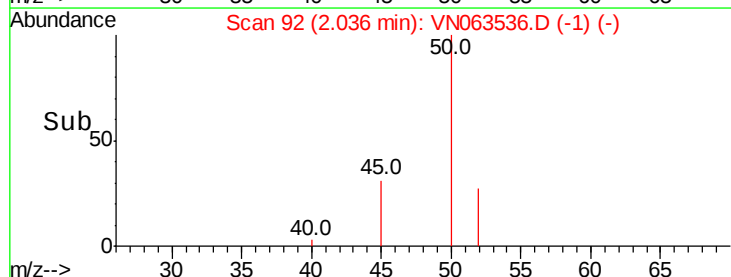
600

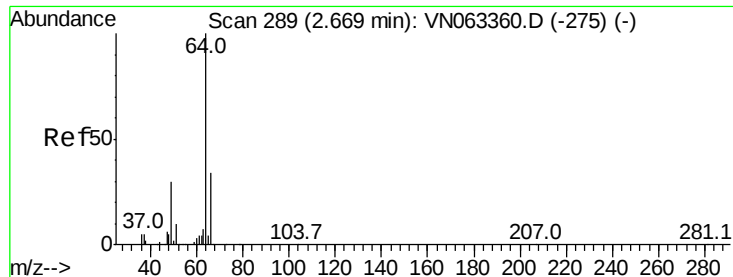
400

200

0

Time--> 2.00 2.02 2.04 2.06





#6

Chloroethane

Concen: 0.515 ug/l

RT: 2.45 min Scan# 220

Delta R.T. -0.22 min

Lab File: VN063536.D

Acq: 22 Sep 2020 16:32

Instrument :

MSVOA_N

ClientSampleId :

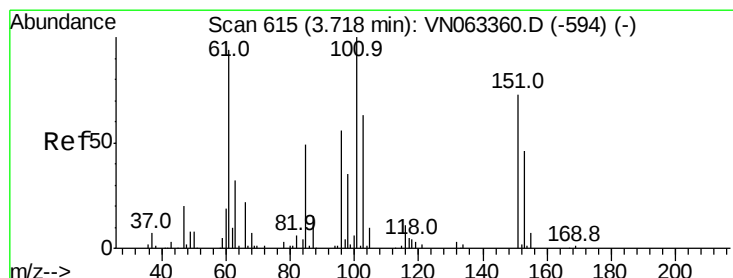
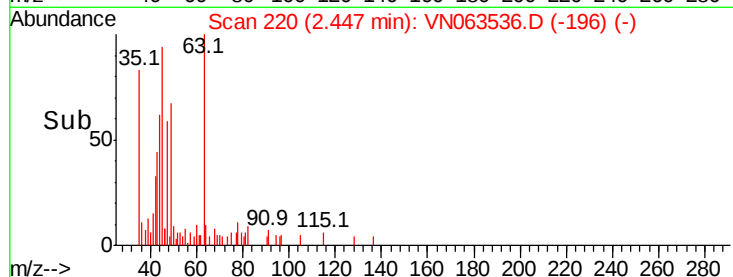
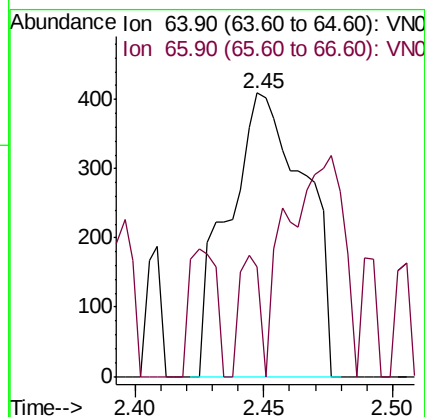
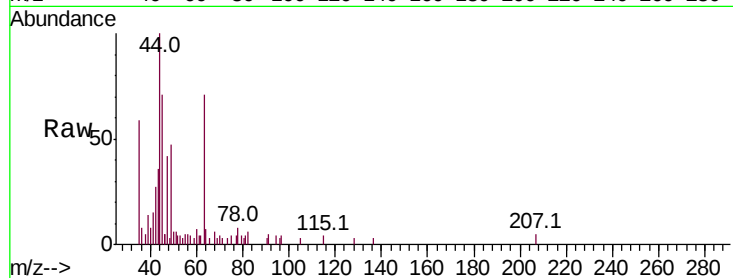
RE134D4-20200915DL

Tot Ion: 64 Resp: 850

Ion Ratio Lower Upper

64 100

66 0.0 26.9 40.3#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 57.785 ug/l

RT: 3.71 min Scan# 614

Delta R.T. -0.00 min

Lab File: VN063536.D

Acq: 22 Sep 2020 16:32

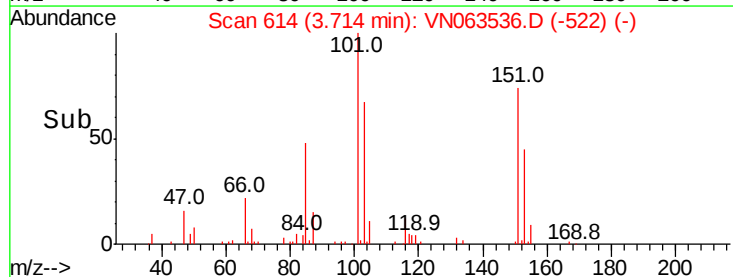
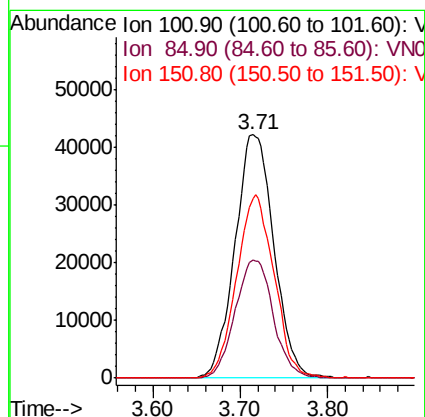
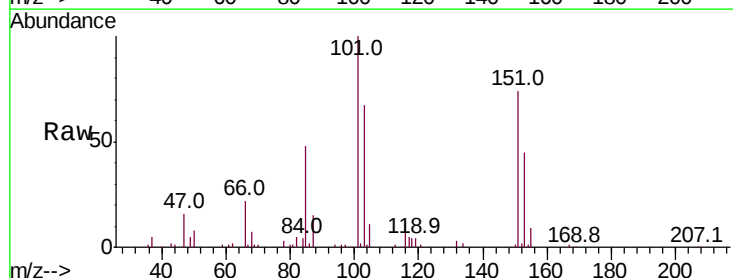
Tgt Ion: 101 Resp: 130258

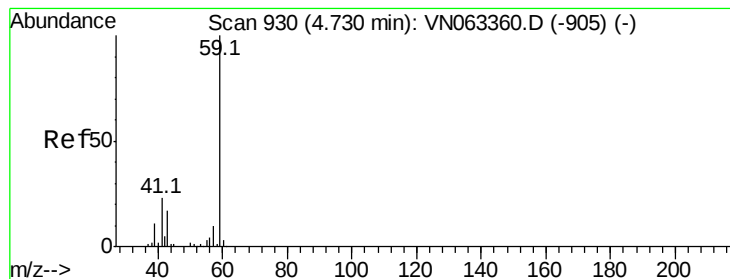
Ion Ratio Lower Upper

101 100

85 47.3 37.7 56.5

151 72.2 57.7 86.5



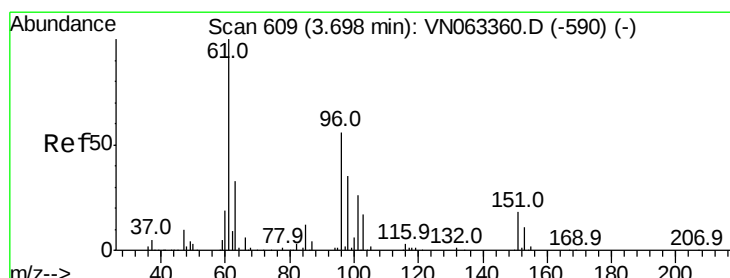
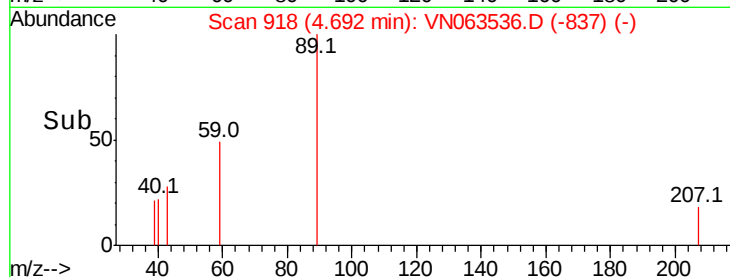
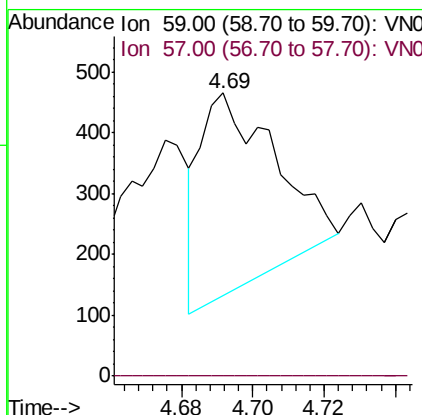
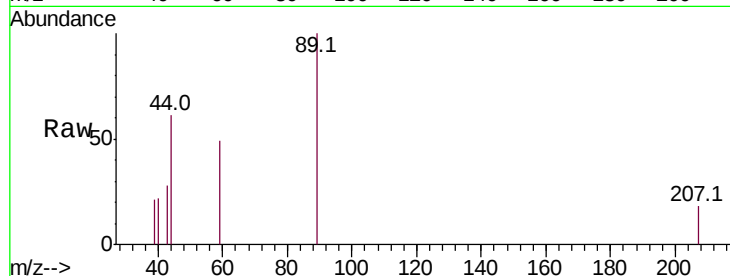


#11

Tert butyl alcohol
 Concen: 0.989 ug/l
 RT: 4.69 min Scan# 918
 Delta R.T. -0.04 min
 Lab File: VN063536.D
 Acq: 22 Sep 2020 16:32

Instrument :
 MSVOA_N
 ClientSampleId :
 RE134D4-20200915DL

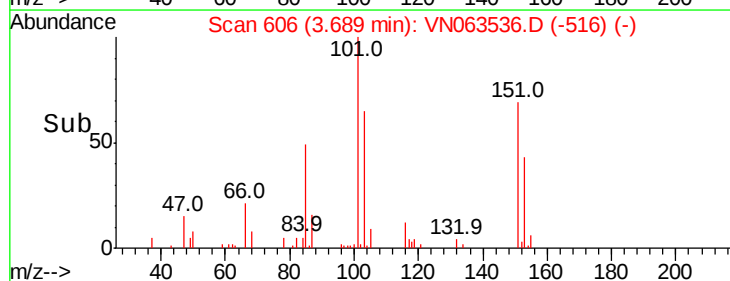
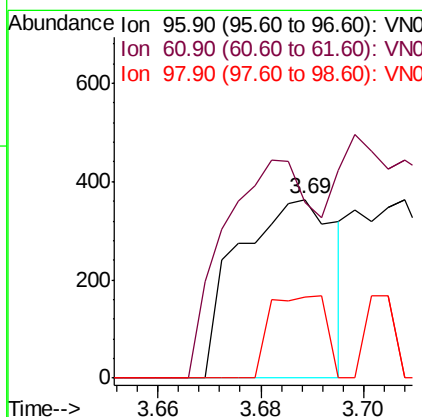
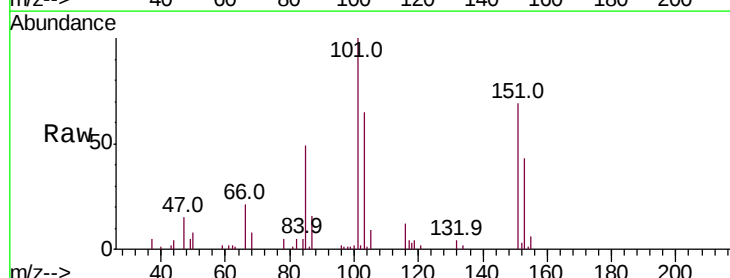
Tot Ion: 59 Resp: 472
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

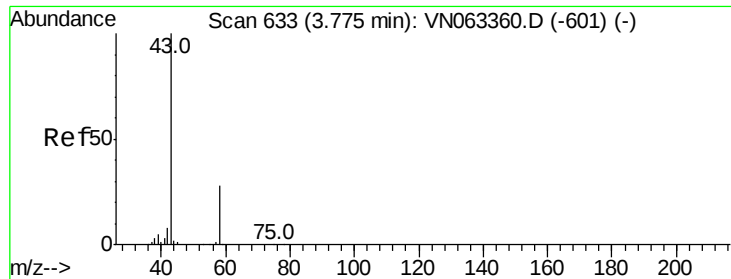


#12

1,1-Dichloroethene
 Concen: 0.208 ug/l
 RT: 3.69 min Scan# 606
 Delta R.T. -0.01 min
 Lab File: VN063536.D
 Acq: 22 Sep 2020 16:32

Tgt Ion: 96 Resp: 474
 Ion Ratio Lower Upper
 96 100
 61 98.4 143.4 215.2#
 98 45.1 50.6 76.0#





#16

Acetone

Concen: 0.547 ug/l

RT: 3.79 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN063536.D

Acq: 22 Sep 2020 16:32

Instrument :

MSVOA_N

ClientSampleId :

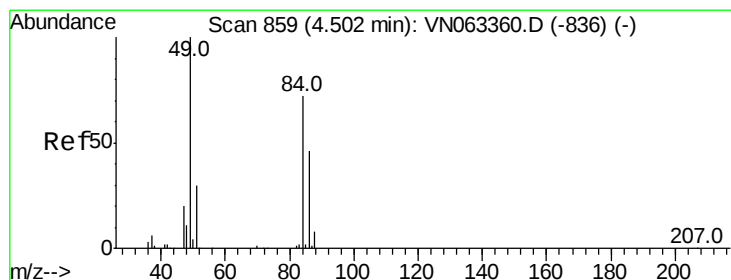
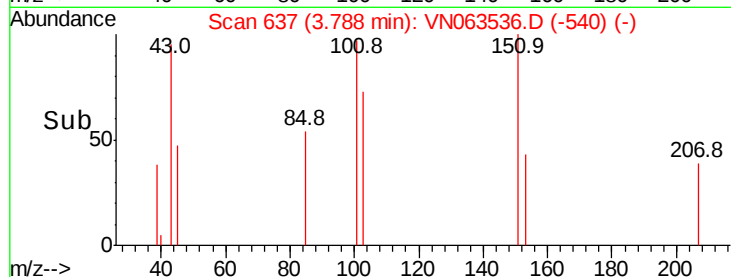
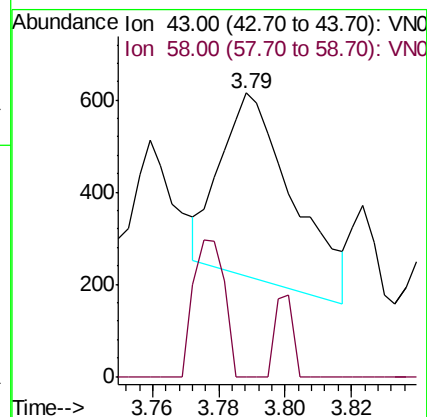
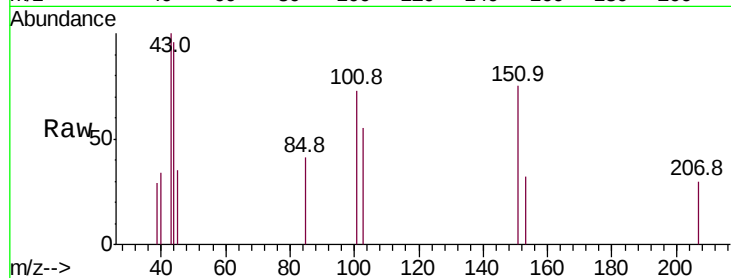
RE134D4-20200915DL

Tot Ion: 43 Resp: 605

Ion Ratio Lower Upper

43 100

58 0.0 22.3 33.5#



#20

Methylene Chloride

Concen: 0.554 ug/l

RT: 4.50 min Scan# 858

Delta R.T. -0.00 min

Lab File: VN063536.D

Acq: 22 Sep 2020 16:32

Tgt Ion: 84 Resp: 1553

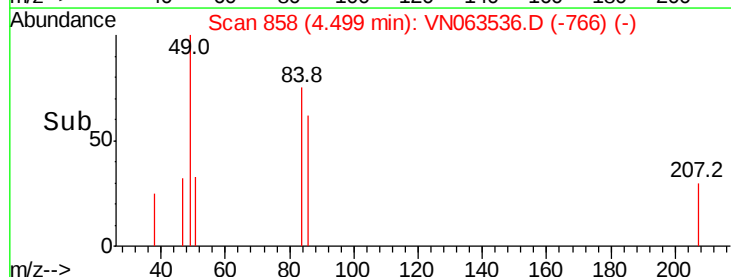
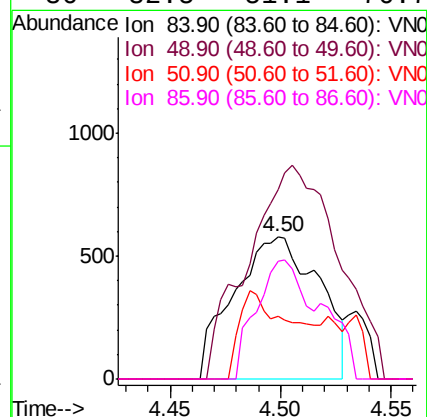
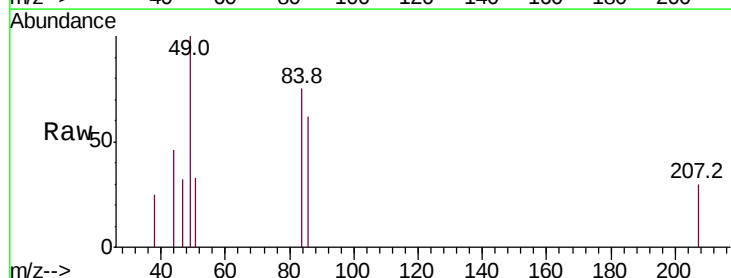
Ion Ratio Lower Upper

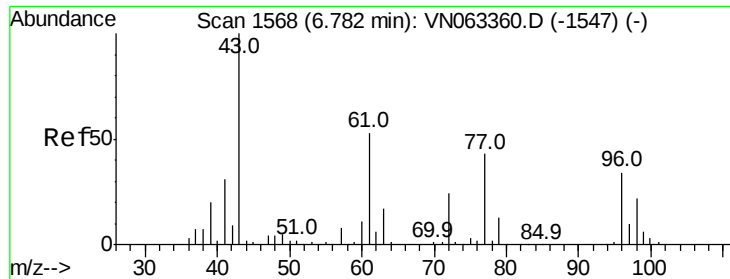
84 100

49 133.4 110.7 166.1

51 44.3 32.9 49.3

86 82.5 51.1 76.7#





#25

2-Butanone

Concen: 0.583 ug/l

RT: 6.78 min Scan# 1566

Delta R.T. -0.01 min

Lab File: VN063536.D

Acq: 22 Sep 2020 16:32

Instrument :

MSVOA_N

ClientSampleId :

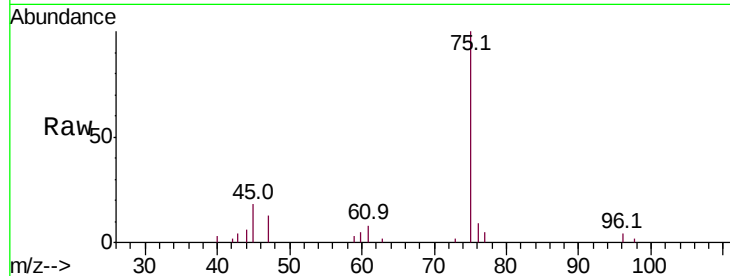
RE134D4-20200915DL

Tot Ion: 43 Resp: 993

Ion Ratio Lower Upper

43 100

72 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.78

300

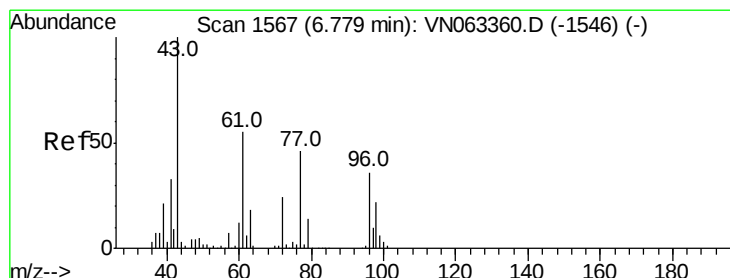
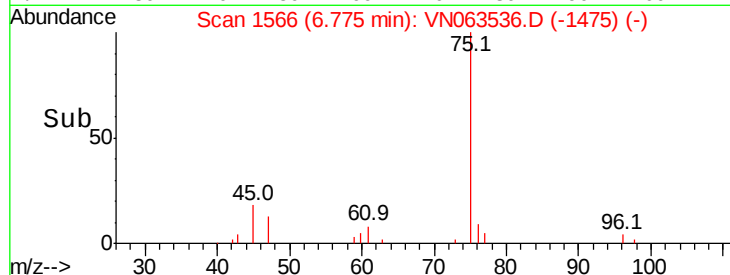
200

100

0

6.75 6.80

Time-->



#27

cis-1,2-Dichloroethene

Concen: 0.203 ug/l

RT: 6.78 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VN063536.D

Acq: 22 Sep 2020 16:32

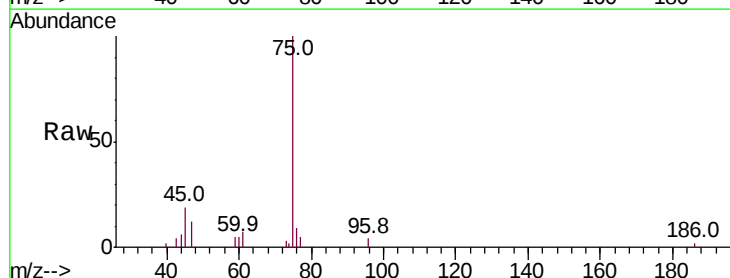
Tgt Ion: 96 Resp: 581

Ion Ratio Lower Upper

96 100

61 249.2 0.0 319.6

98 10.2 0.0 127.8



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

800

600

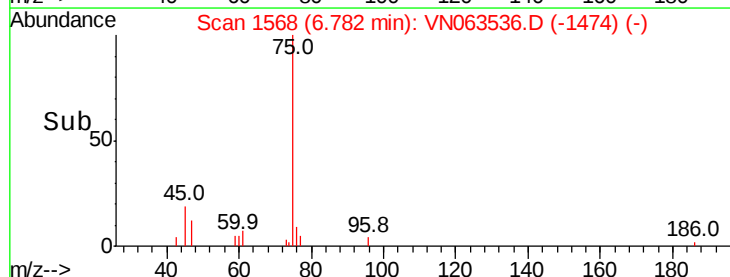
400

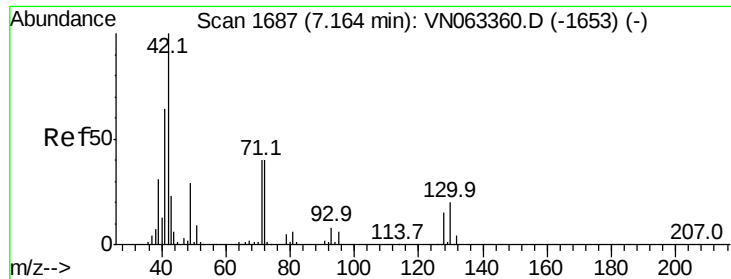
200

0

6.74 6.76 6.78 6.80

Time-->





#29

Tetrahydrofuran

Concen: 0.267 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.01 min

Lab File: VN063536.D

Acq: 22 Sep 2020 16:32

Instrument :

MSVOA_N

ClientSampleId :

RE134D4-20200915DL

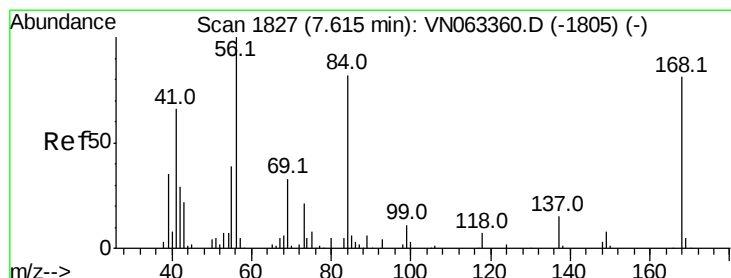
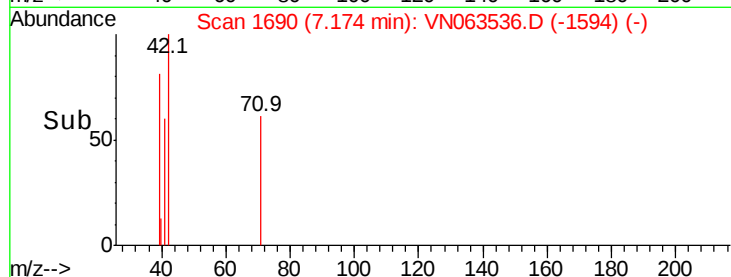
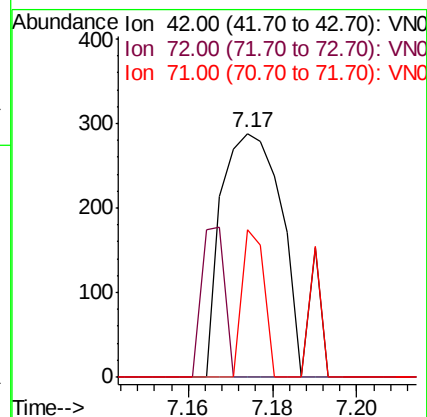
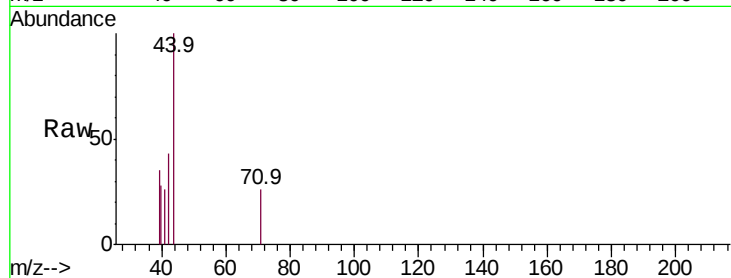
Tot Ion: 42 Resp: 311

Ion Ratio Lower Upper

42 100

72 21.9 32.1 48.1#

71 20.6 31.2 46.8#



#31

Cyclohexane

Concen: 1.347 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063536.D

Acq: 22 Sep 2020 16:32

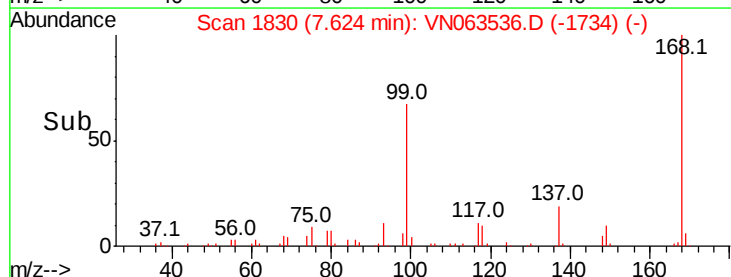
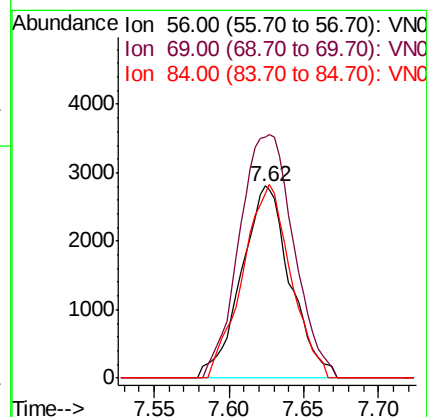
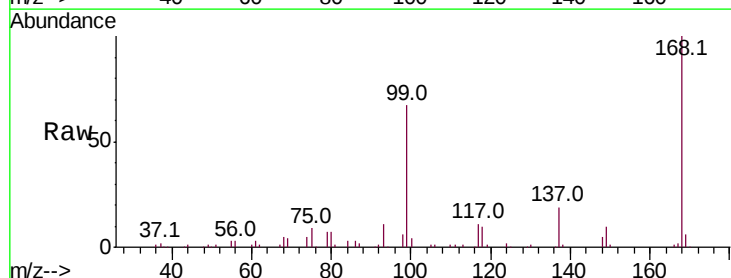
Tgt Ion: 56 Resp: 6408

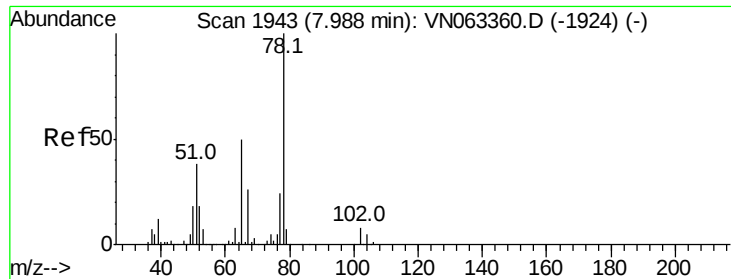
Ion Ratio Lower Upper

56 100

69 125.8 26.1 39.1#

84 96.0 65.4 98.2

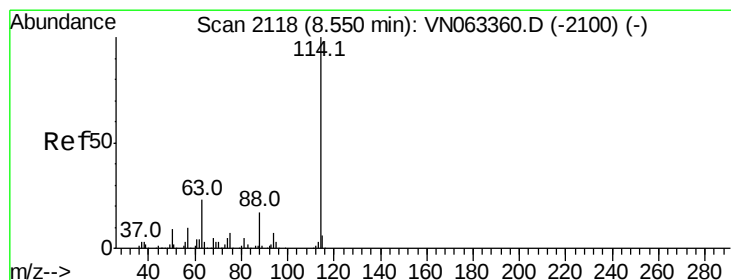
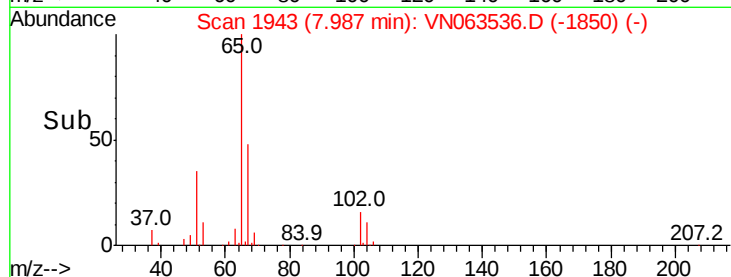
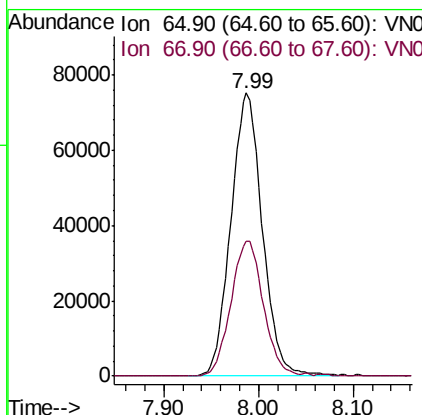
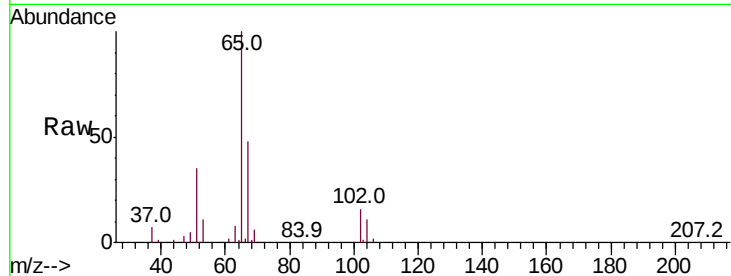




#33
 1,2-Dichloroethane-d4
 Concen: 50.472 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN063536.D
 Acq: 22 Sep 2020 16:32

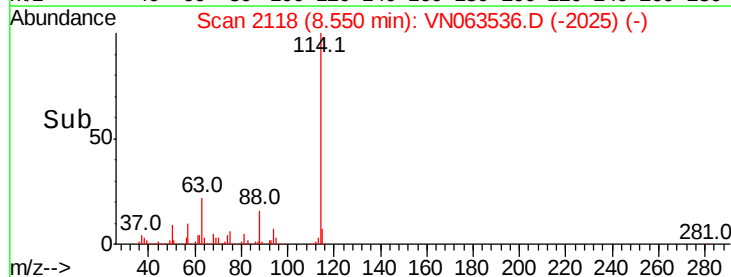
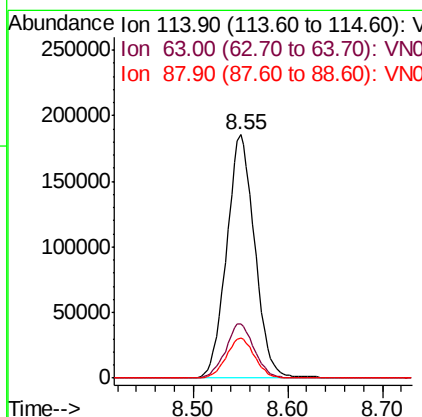
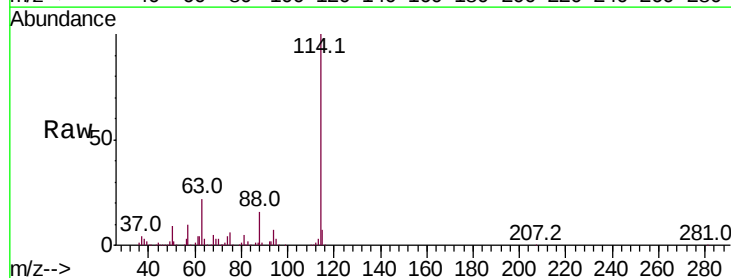
Instrument :
 MSVOA_N
 ClientSampleId :
 RE134D4-20200915DL

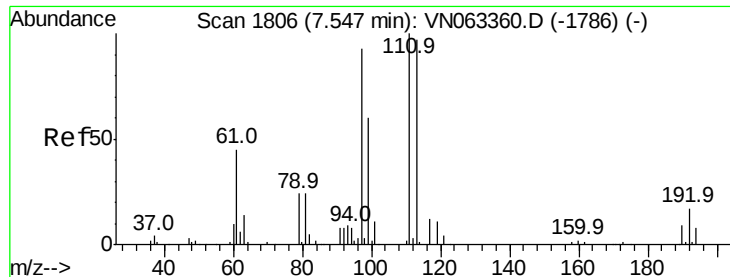
Tot Ion: 65 Resp: 173832
 Ion Ratio Lower Upper
 65 100
 67 49.1 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063536.D
 Acq: 22 Sep 2020 16:32

Tgt Ion: 114 Resp: 382431
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 46.4
 88 16.4 0.0 33.2

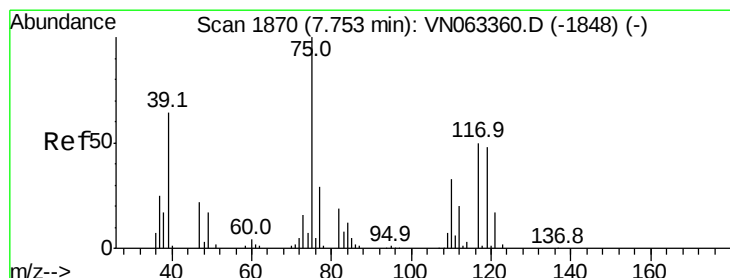
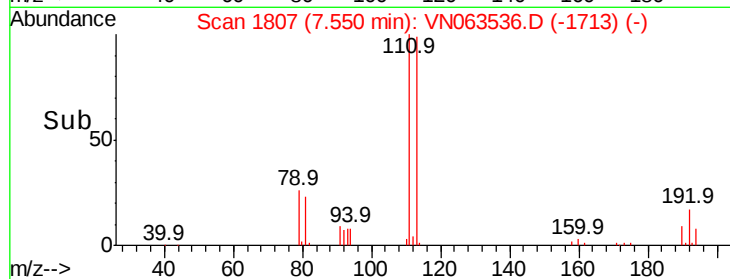
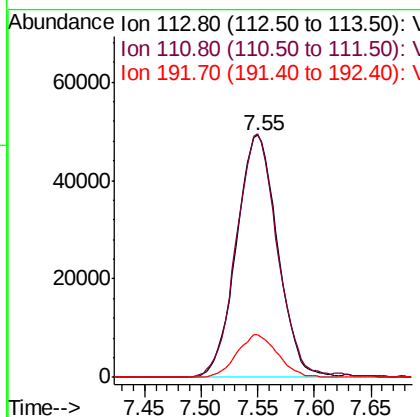
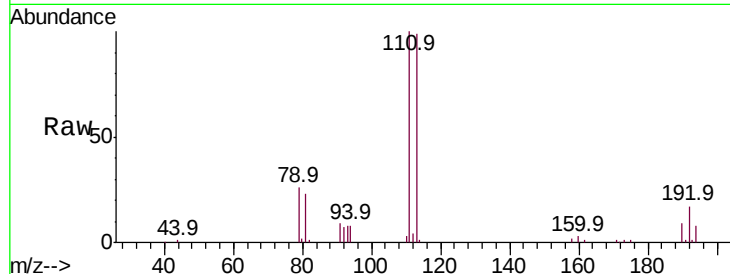




#35
 Dibromofluoromethane
 Concen: 47.126 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063536.D
 Acq: 22 Sep 2020 16:32

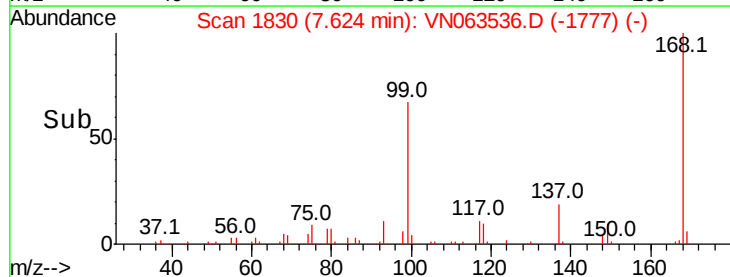
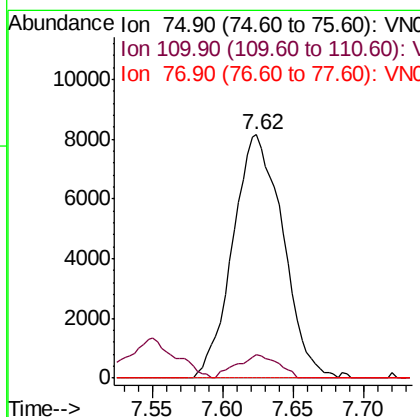
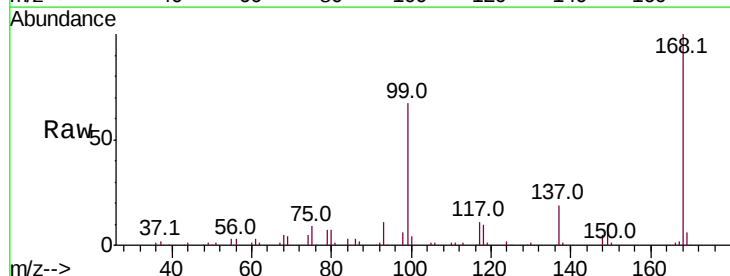
Instrument :
 MSVOA_N
 ClientSampleId :
 RE134D4-20200915DL

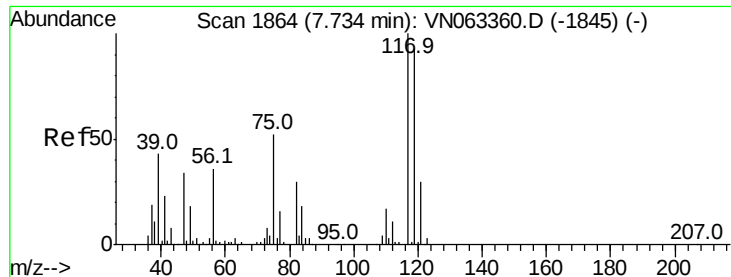
Tot Ion	Ratio	Lower	Upper
113	100		
111	100.1	82.9	124.3
192	17.4	13.9	20.9



#36
 1,1-Dichloropropene
 Concen: 4.962 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063536.D
 Acq: 22 Sep 2020 16:32

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.8	16.5	49.5#
77	0.0	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 5.616 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063536.D

Acq: 22 Sep 2020 16:32

Instrument :

MSVOA_N

ClientSampleId :

RE134D4-20200915DL

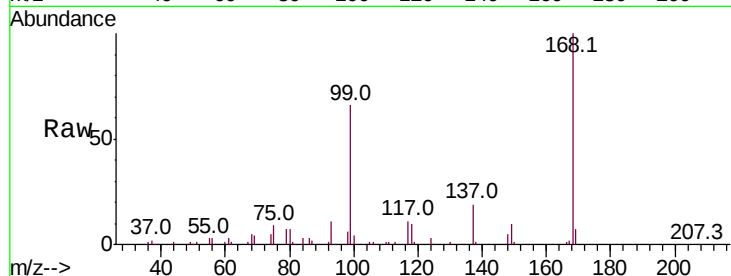
Tot Ion:117 Resp: 23357

Ion Ratio Lower Upper

117 100

119 6.1 74.5 111.7#

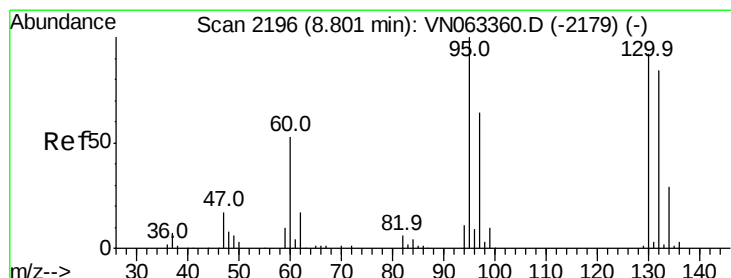
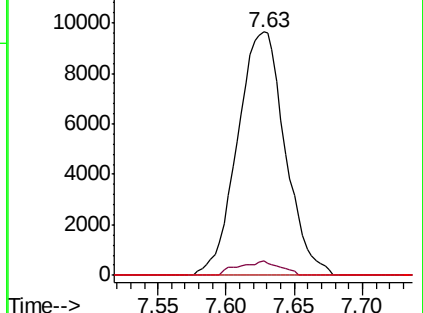
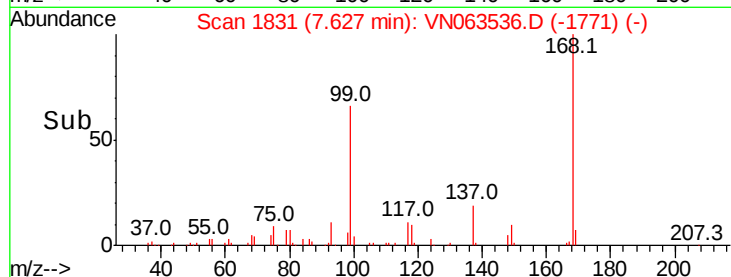
121 0.0 24.1 36.1#



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



#44

Trichloroethene

Concen: 5.667 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN063536.D

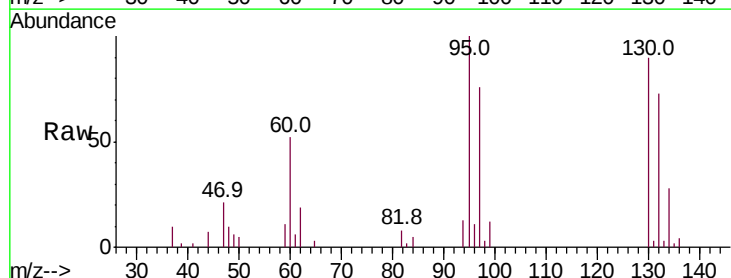
Acq: 22 Sep 2020 16:32

Tgt Ion:130 Resp: 15985

Ion Ratio Lower Upper

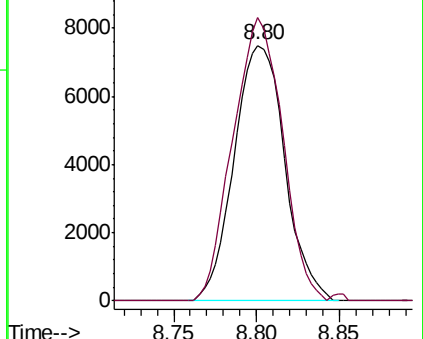
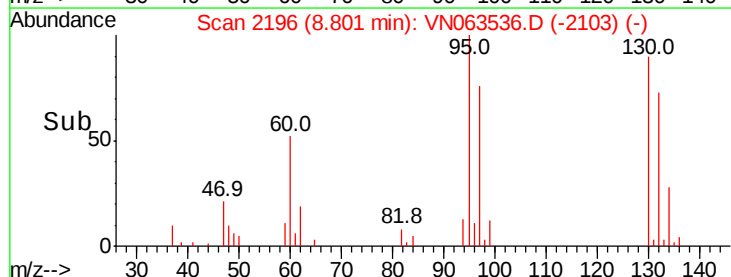
130 100

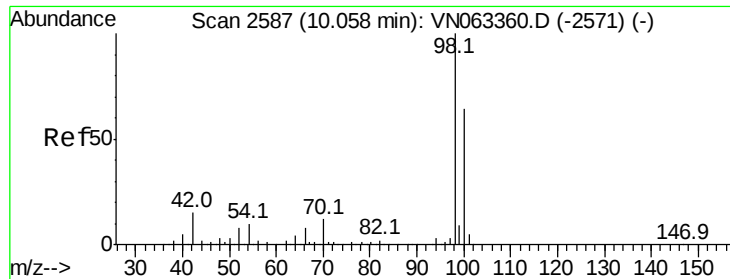
95 110.7 0.0 217.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#50

Toluene-d8

Concen: 48.925 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063536.D

Acq: 22 Sep 2020 16:32

Instrument :

MSVOA_N

ClientSampleId :

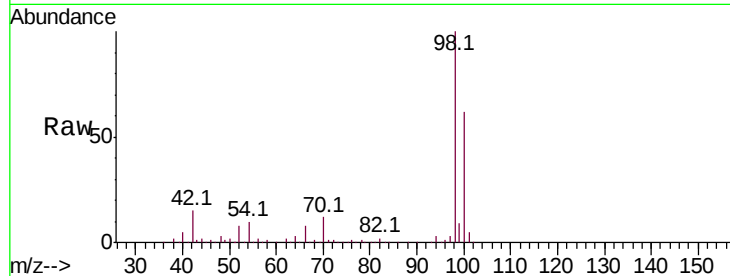
RE134D4-20200915DL

Tot Ion: 98 Resp: 487049

Ion Ratio Lower Upper

98 100

100 63.0 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

300000

250000

200000

150000

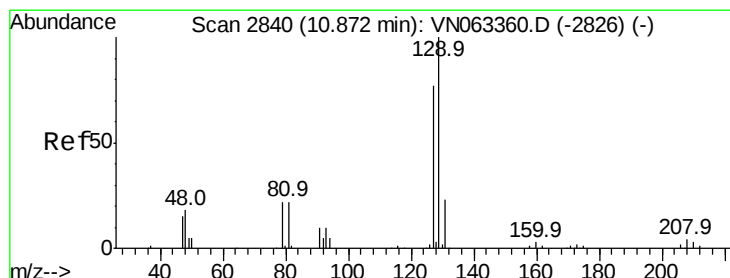
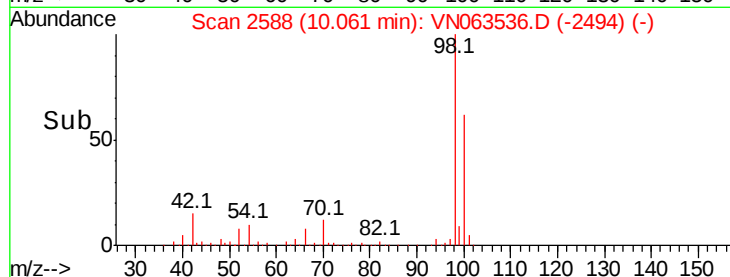
100000

50000

0

Time-->

10.00 10.10



#60

Dibromochloromethane

Concen: 2.138 ug/l

RT: 10.61 min Scan# 2758

Delta R.T. -0.26 min

Lab File: VN063536.D

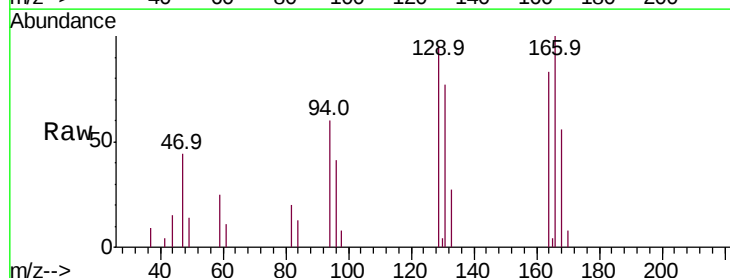
Acq: 22 Sep 2020 16:32

Tgt Ion: 129 Resp: 6708

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

4000

3000

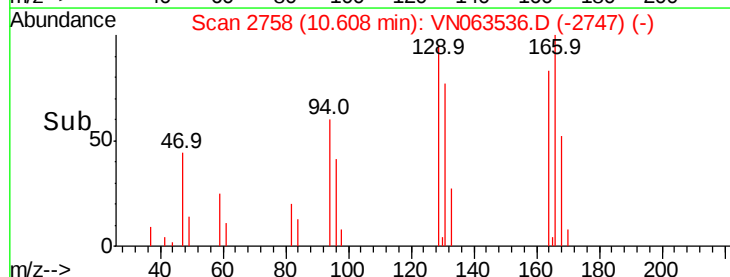
2000

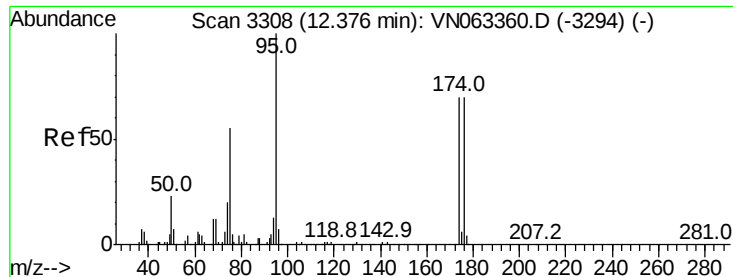
1000

0

Time-->

10.55 10.60 10.65





#62

4-Bromofluorobenzene

Concen: 53.916 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063536.D

Acq: 22 Sep 2020 16:32

Instrument :

MSVOA_N

ClientSampleId :

RE134D4-20200915DL

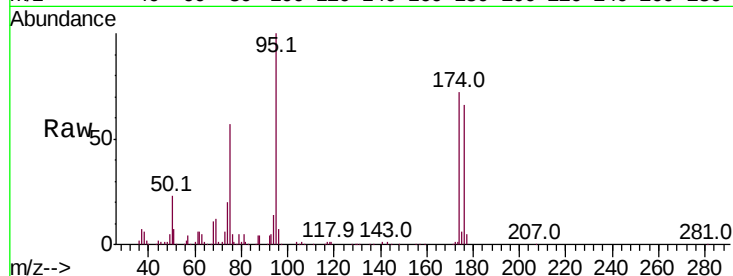
Tot Ion: 95 Resp: 196756

Ion Ratio Lower Upper

95 100

174 71.5 0.0 140.8

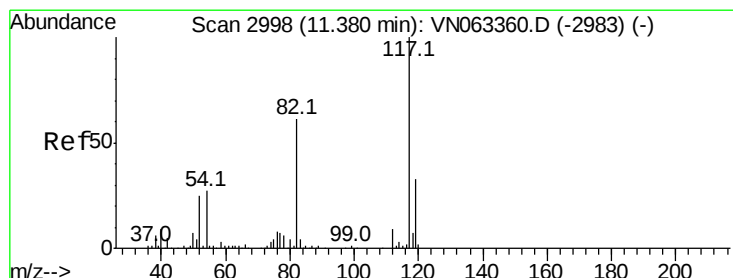
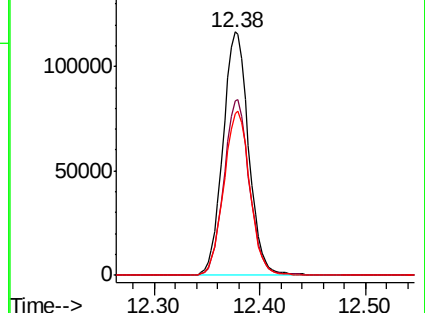
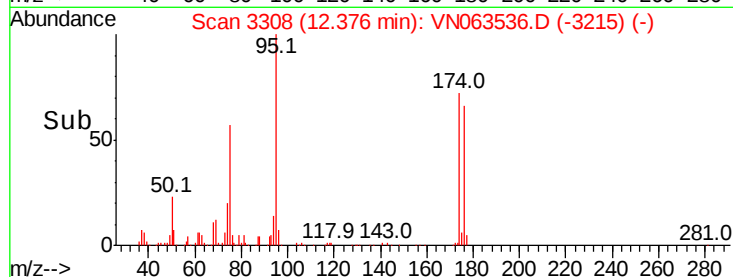
176 68.3 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN063536.D (-3215) (-)

Ion 173.80 (173.50 to 174.50): VN063536.D (-3215) (-)

Ion 175.80 (175.50 to 176.50): VN063536.D (-3215) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063536.D

Acq: 22 Sep 2020 16:32

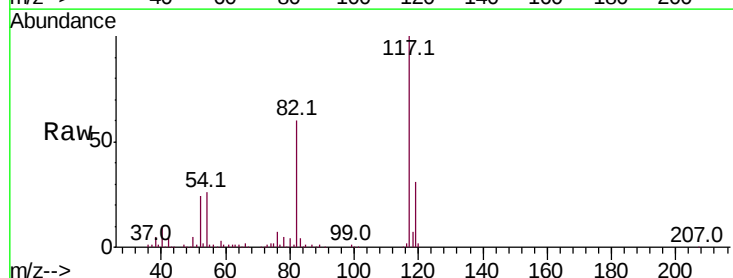
Tgt Ion: 117 Resp: 386959

Ion Ratio Lower Upper

117 100

82 59.9 49.2 73.8

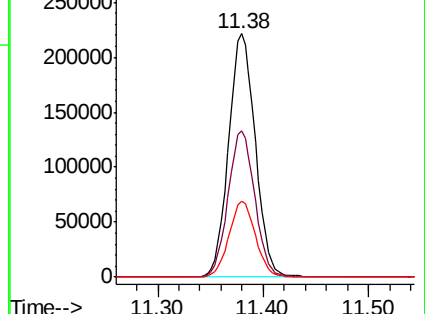
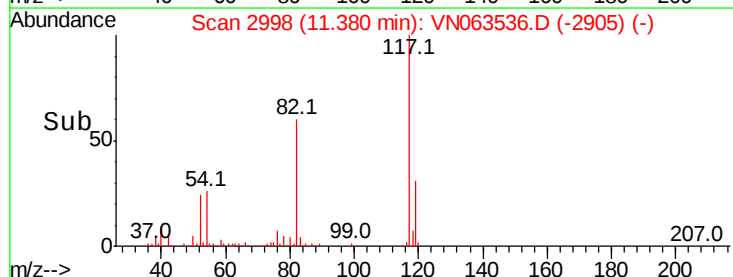
119 31.3 26.2 39.4

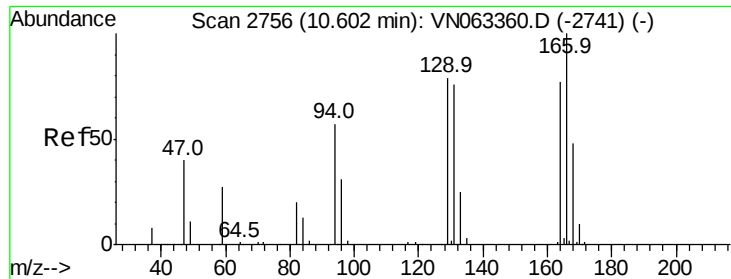


Abundance Ion 116.90 (116.60 to 117.60): VN063536.D (-2905) (-)

Ion 82.00 (81.70 to 82.70): VN063536.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN063536.D (-2905) (-)





#64

Tetrachloroethene

Concen: 2.507 ug/l

RT: 10.60 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VN063536.D

Acq: 22 Sep 2020 16:32

Instrument :

MSVOA_N

ClientSampleId :

RE134D4-20200915DL

Tot Ion:164 Resp: 6605

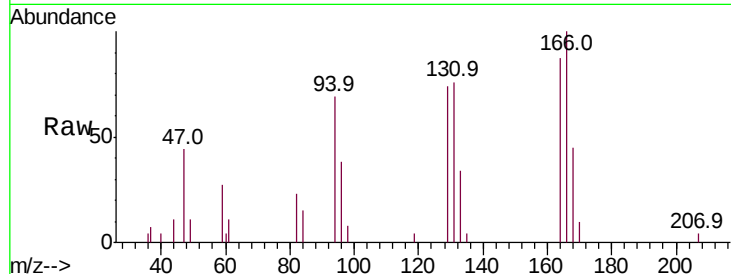
Ion Ratio Lower Upper

164 100

166 114.5 103.4 155.0

129 84.5 81.8 122.6

131 86.9 78.2 117.4

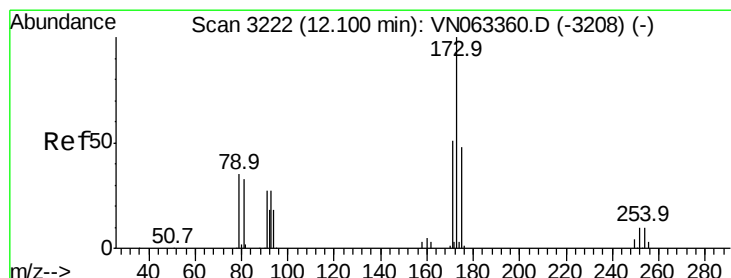
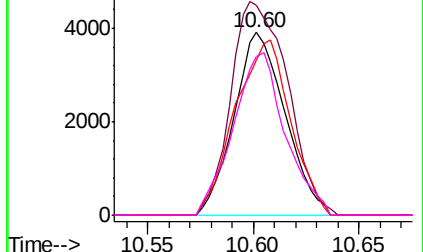
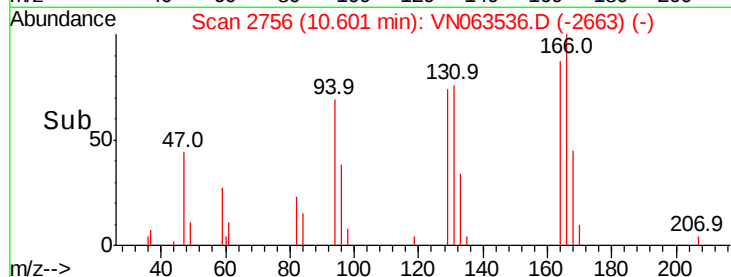


Abundance Ion 163.80 (163.50 to 164.50): V

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



#71

Bromoform

Concen: 0.392 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN063536.D

Acq: 22 Sep 2020 16:32

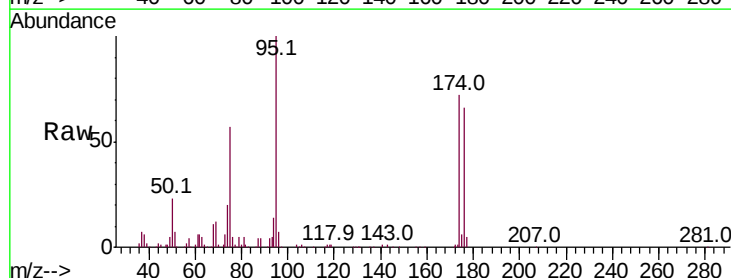
Tgt Ion:173 Resp: 880

Ion Ratio Lower Upper

173 100

175 1046.7 24.0 72.0#

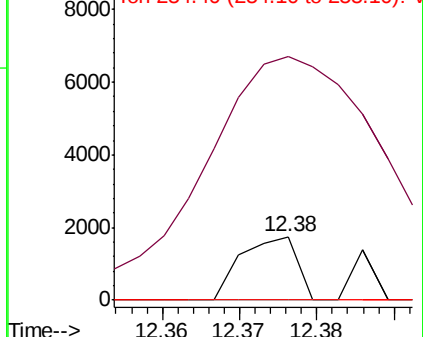
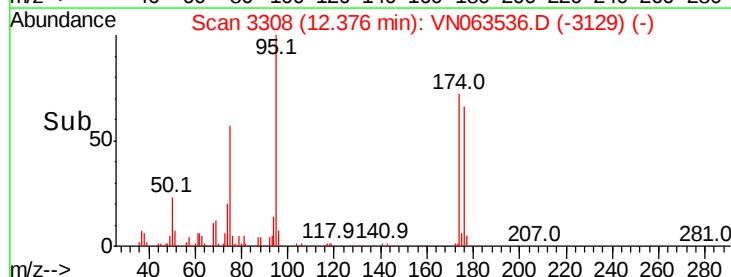
254 0.0 0.0 0.0

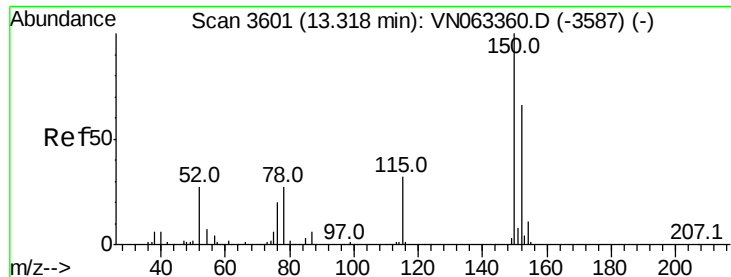


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN063536.D

Acq: 22 Sep 2020 16:32

Instrument :

MSVOA_N

ClientSampleId :

RE134D4-20200915DL

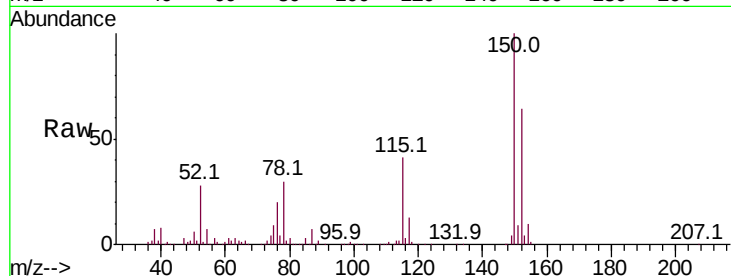
Tot Ion:152 Resp: 174234

Ion Ratio Lower Upper

152 100

115 63.3 32.2 96.6

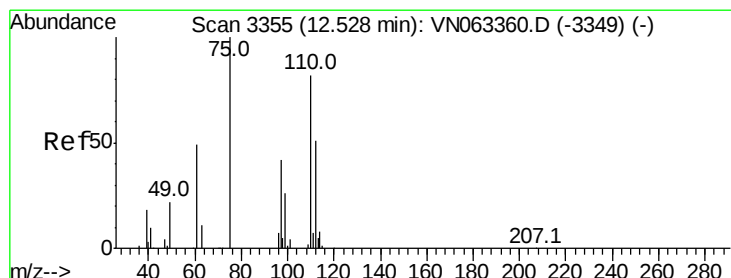
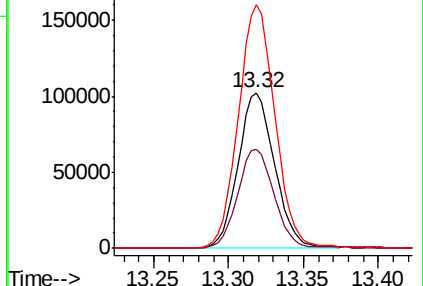
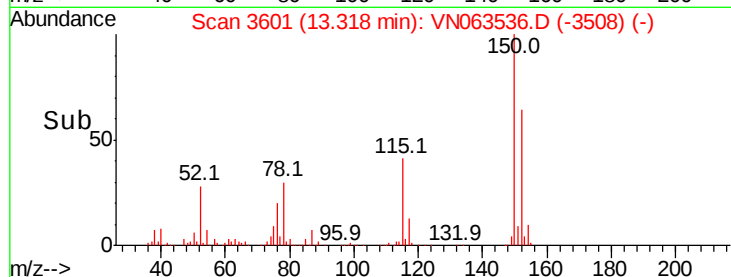
150 156.8 0.0 343.4



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: 26.041 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063536.D

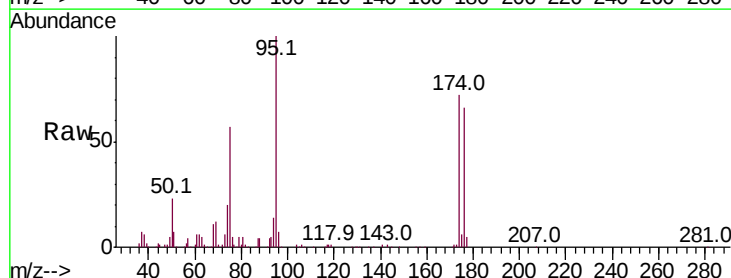
Acq: 22 Sep 2020 16:32

Tgt Ion: 75 Resp: 112303

Ion Ratio Lower Upper

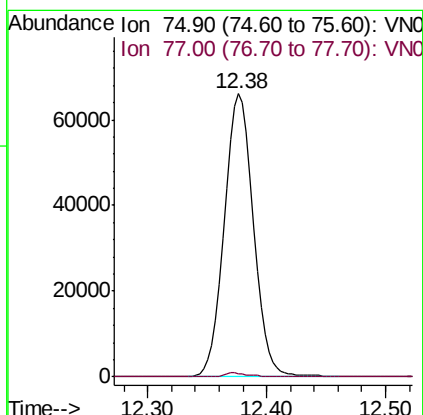
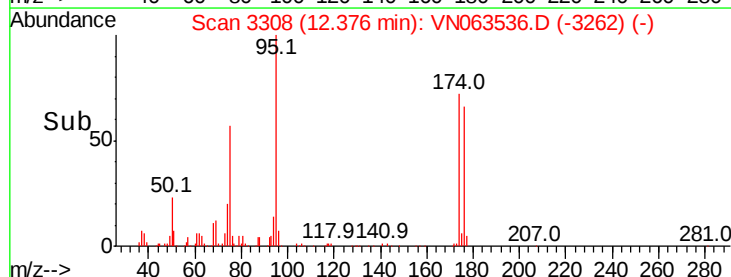
75 100

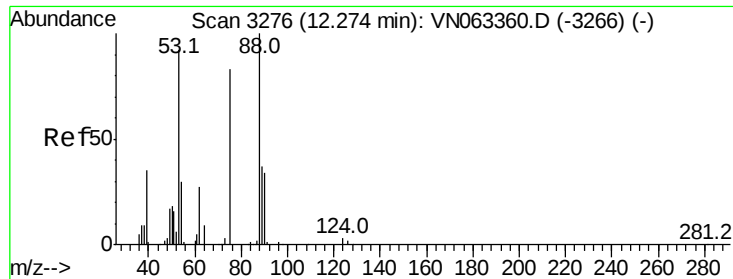
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 71.395 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063536.D

Acq: 22 Sep 2020 16:32

Instrument :

MSVOA_N

ClientSampleId :

RE134D4-20200915DL

Tot Ion: 75 Resp: 112303

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

