

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092120\
 Data File : VN063509.D
 Acq On : 22 Sep 2020 1:42
 Operator : JC/MD
 Sample : L4082-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE139D1-20200915

Quant Time: Sep 22 04:59:48 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	237507	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	438609	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	442946	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	191034	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	192418	47.59	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.18%	
35) Dibromofluoromethane	7.55	113	139239	45.86	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.72%	
50) Toluene-d8	10.06	98	564360	49.43	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.86%	
62) 4-Bromofluorobenzene	12.38	95	224472	53.63	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.26%	

Target Compounds

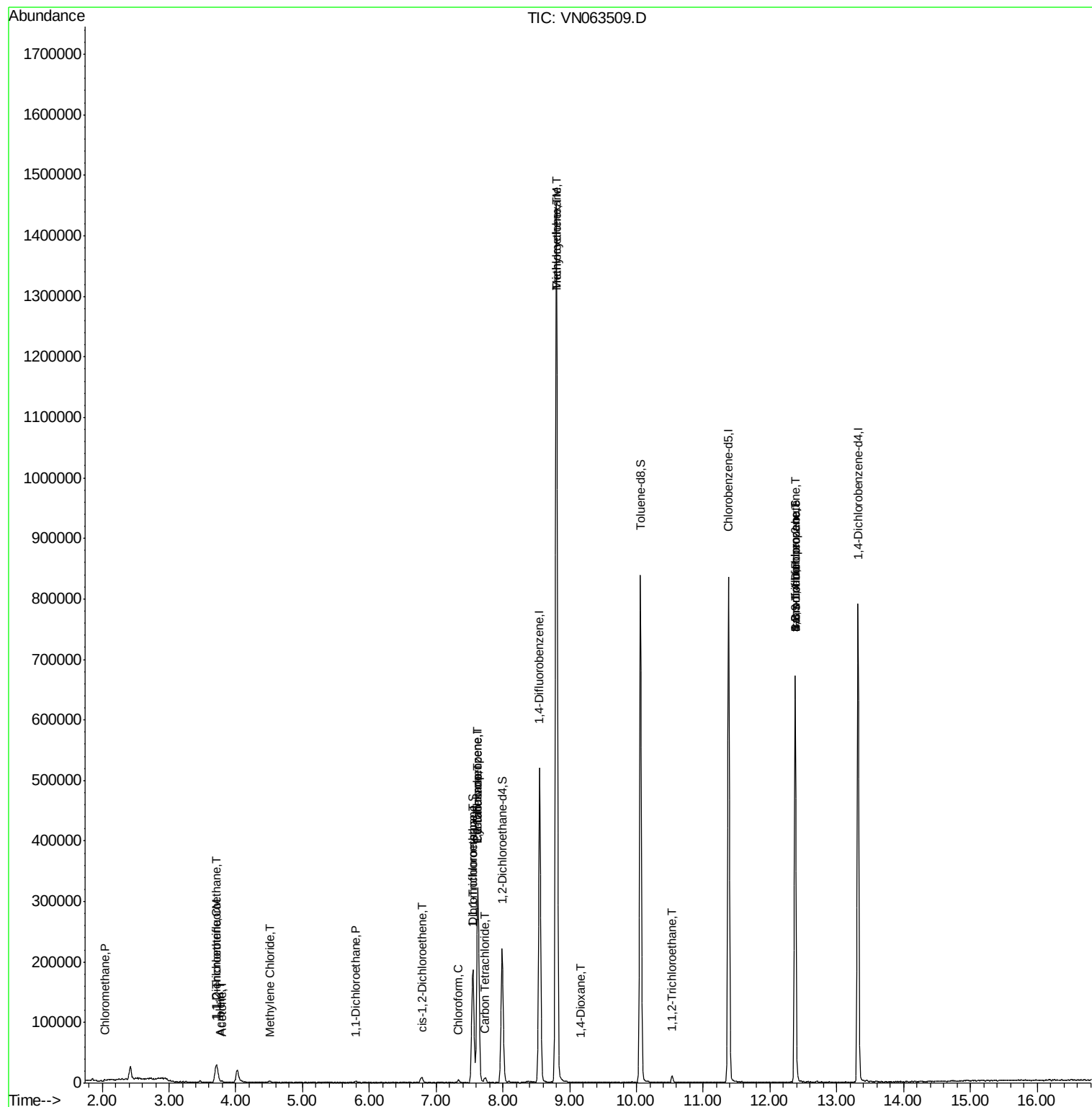
						Qvalue
3) Chloromethane	2.03	50	812	0.228	ug/l #	82
9) 1,1,2-Trichlorotrifluoroet	3.72	101	11719	4.429	ug/l	98
12) 1,1-Dichloroethene	3.70	96	7973	2.975	ug/l	97
13) Acrolein	3.77	56	84	0.405	ug/l #	13
16) Acetone	3.79	43	3319	2.554	ug/l #	88
20) Methylene Chloride	4.50	84	1197	0.364	ug/l #	36
24) 1,1-Dichloroethane	5.80	63	1773	0.300	ug/l #	84
27) cis-1,2-Dichloroethene	6.78	96	4892	1.455	ug/l	86
30) Chloroform	7.32	83	3066	0.518	ug/l	90
31) Cyclohexane	7.63	56	6670	1.195	ug/l #	25
32) 1,1,1-Trichloroethane	7.54	97	1092	0.207	ug/l #	46
36) 1,1-Dichloropropene	7.63	75	22500	4.815	ug/l #	47
38) Carbon Tetrachloride	7.73	117	5272	1.105	ug/l	93
39) Methylcyclohexane	8.80	83	7002	1.381	ug/l #	1
44) Trichloroethene	8.80	130	486301	150.310	ug/l	100
49) 1,4-Dioxane	9.17	88	431	7.454	ug/l #	94
55) 1,1,2-Trichloroethane	10.54	97	3096	0.972	ug/l	94
71) Bromoform	12.38	173	2030	0.791	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	122846	25.981	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	122846	71.229	ug/l #	7

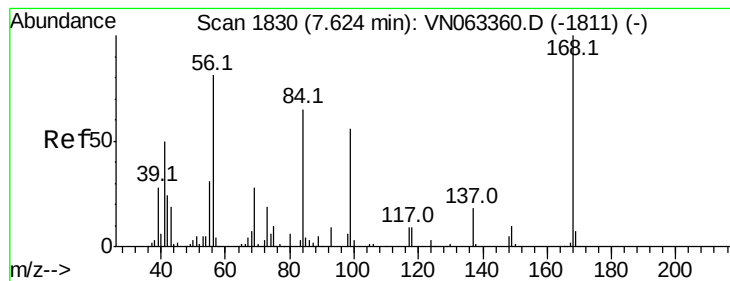
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063509.D

Acq: 22 Sep 2020 1:42

Instrument :

MSVOA_N

ClientSampleId :

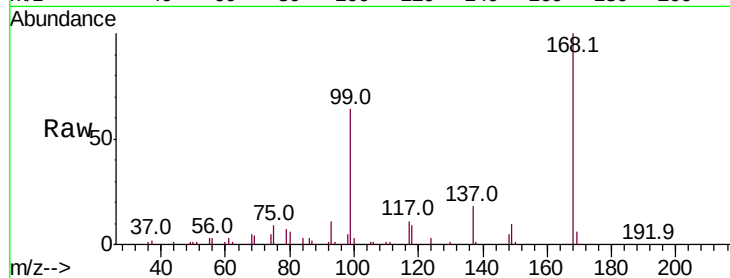
RE139D1-20200915

Tot Ion:168 Resp: 237507

Ion Ratio Lower Upper

168 100

99 63.9 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

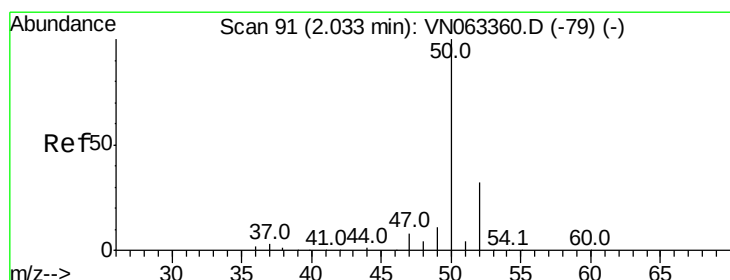
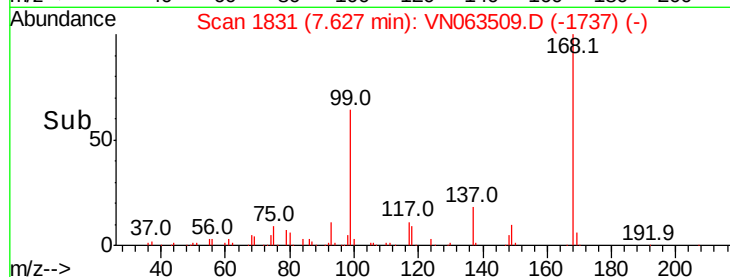
0

Time-->

7.50

7.60

7.70



#3

Chloromethane

Concen: 0.228 ug/l

RT: 2.03 min Scan# 90

Delta R.T. -0.00 min

Lab File: VN063509.D

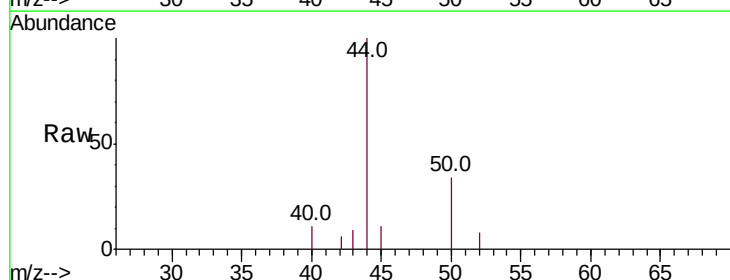
Acq: 22 Sep 2020 1:42

Tgt Ion: 50 Resp: 812

Ion Ratio Lower Upper

50 100

52 22.1 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.03

1200

1000

800

600

400

200

0

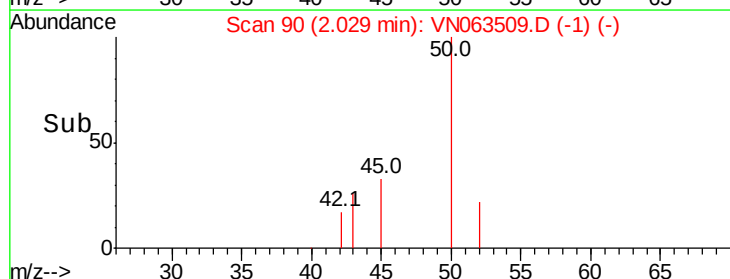
Time-->

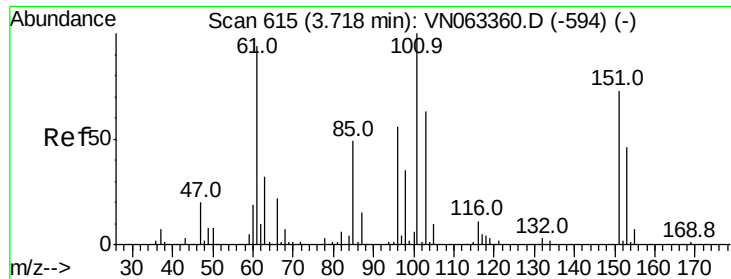
2.01

2.02

2.03

2.04





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.429 ug/l

RT: 3.72 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN063509.D

Acq: 22 Sep 2020 1:42

Instrument :

MSVOA_N

ClientSampleId :

RE139D1-20200915

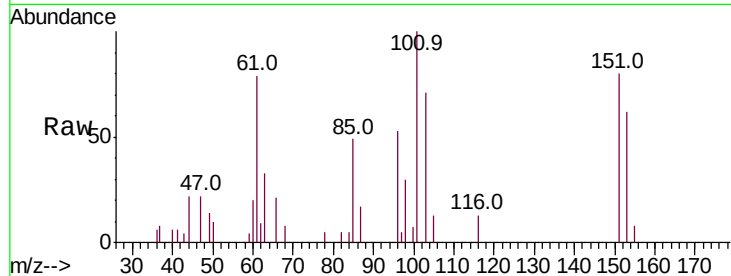
Tot Ion:101 Resp: 11719

Ion Ratio Lower Upper

101 100

85 48.2 37.7 56.5

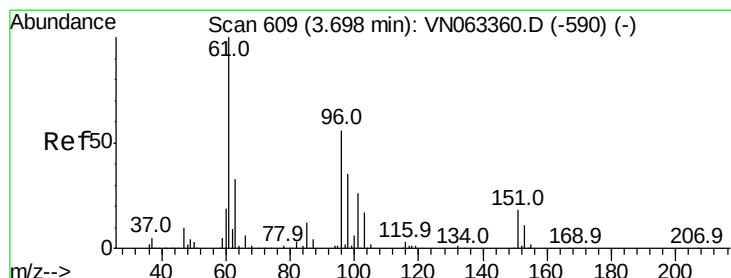
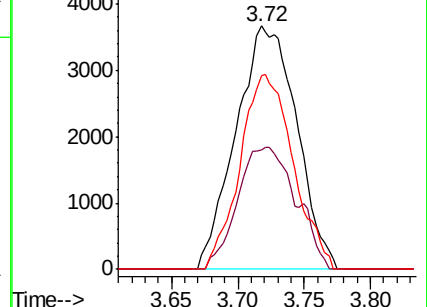
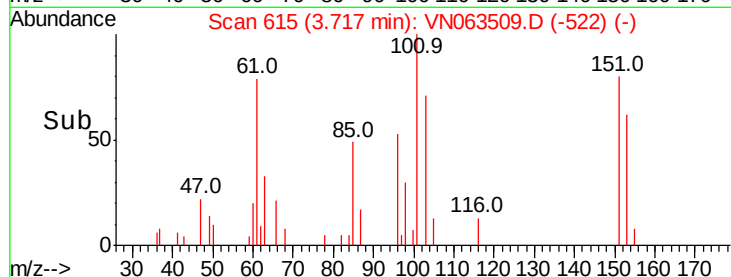
151 69.9 57.7 86.5



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V



#12

1,1-Dichloroethene

Concen: 2.975 ug/l

RT: 3.70 min Scan# 609

Delta R.T. -0.00 min

Lab File: VN063509.D

Acq: 22 Sep 2020 1:42

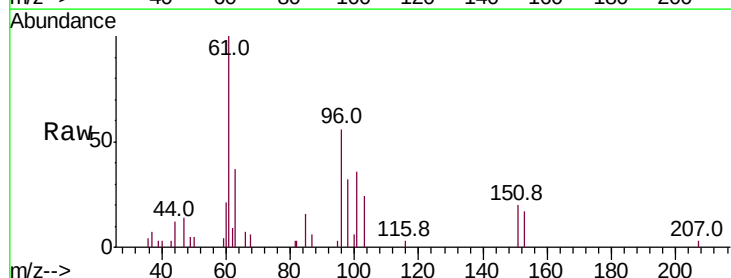
Tgt Ion: 96 Resp: 7973

Ion Ratio Lower Upper

96 100

61 178.1 143.4 215.2

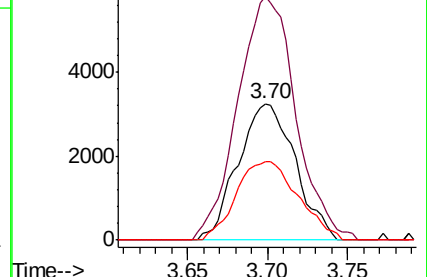
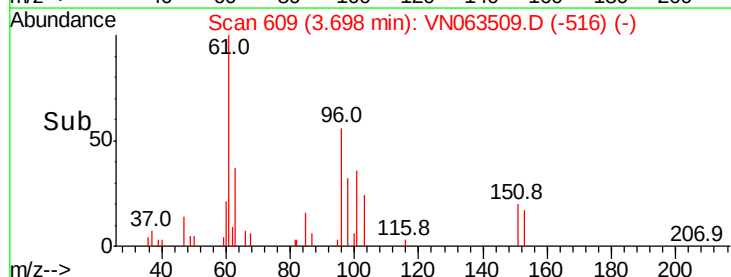
98 57.6 50.6 76.0

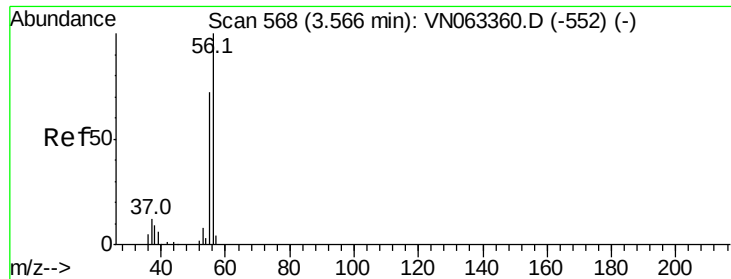


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#13

Acrolein

Concen: 0.405 ug/l

RT: 3.77 min Scan# 632

Delta R.T. 0.21 min

Lab File: VN063509.D

Acq: 22 Sep 2020 1:42

Instrument :

MSVOA_N

ClientSampleId :

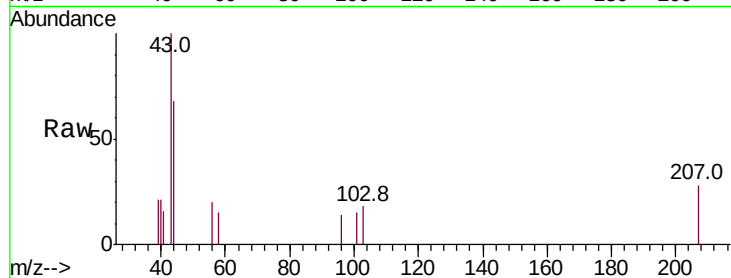
RE139D1-20200915

Tot Ion: 56 Resp: 84

Ion Ratio Lower Upper

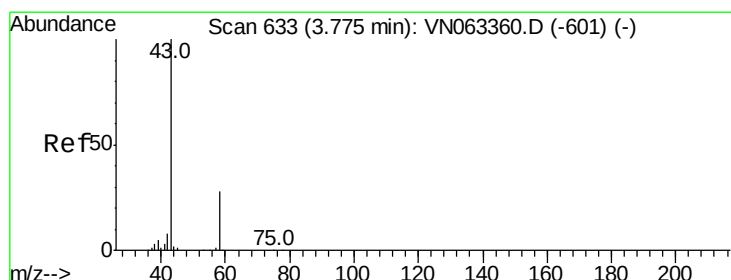
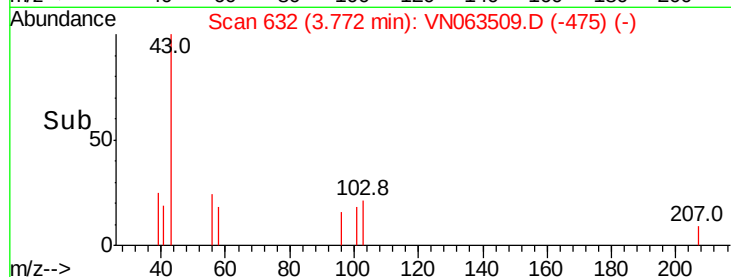
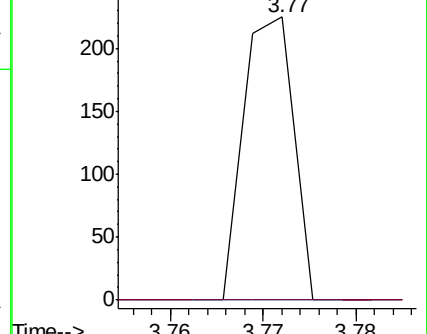
56 100

55 0.0 58.2 87.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 2.554 ug/l

RT: 3.79 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN063509.D

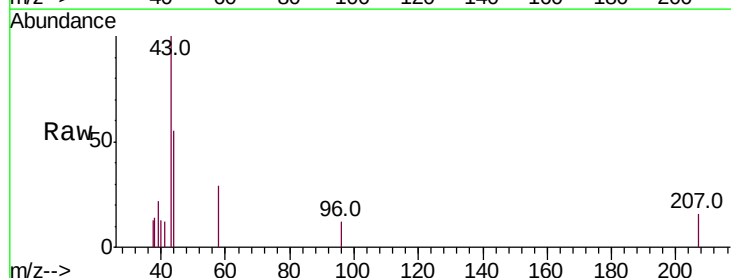
Acq: 22 Sep 2020 1:42

Tgt Ion: 43 Resp: 3319

Ion Ratio Lower Upper

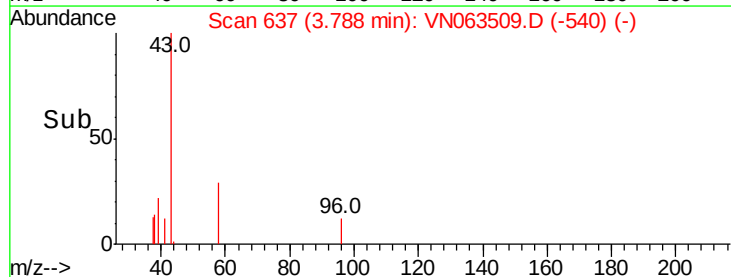
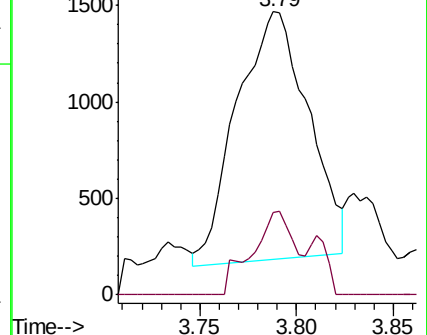
43 100

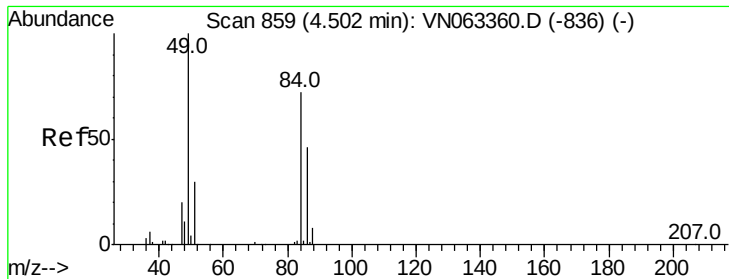
58 34.2 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#20

Methylene Chloride

Concen: 0.364 ug/l

RT: 4.50 min Scan# 859

Delta R.T. -0.00 min

Lab File: VN063509.D

Acq: 22 Sep 2020 1:42

Instrument :

MSVOA_N

ClientSampleId :

RE139D1-20200915

Tot Ion: 84 Resp: 1197

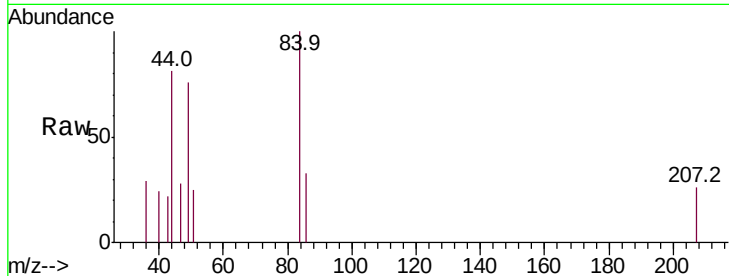
Ion Ratio Lower Upper

84 100

49 34.2 110.7 166.1#

51 24.6 32.9 49.3#

86 33.4 51.1 76.7#

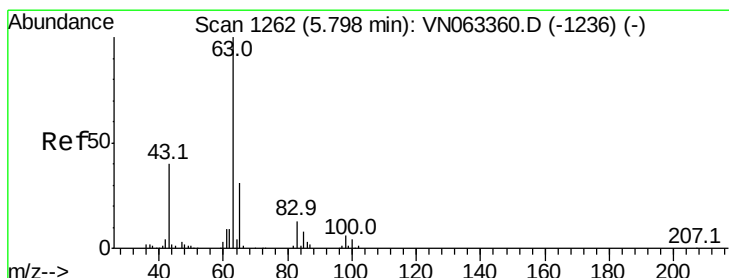
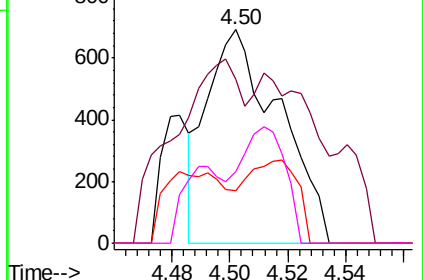
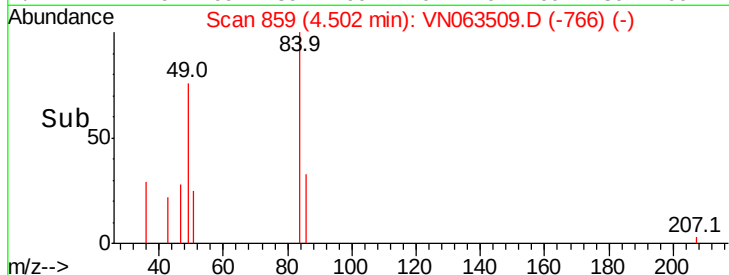


Abundance Ion 83.90 (83.60 to 84.60): VN0

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



#24

1,1-Dichloroethane

Concen: 0.300 ug/l

RT: 5.80 min Scan# 1264

Delta R.T. 0.01 min

Lab File: VN063509.D

Acq: 22 Sep 2020 1:42

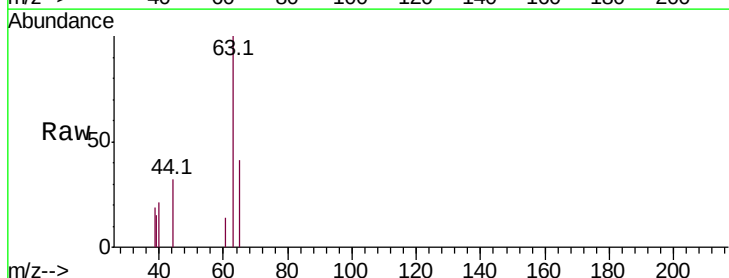
Tgt Ion: 63 Resp: 1773

Ion Ratio Lower Upper

63 100

98 0.0 2.9 8.8#

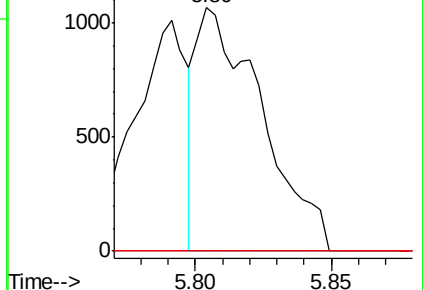
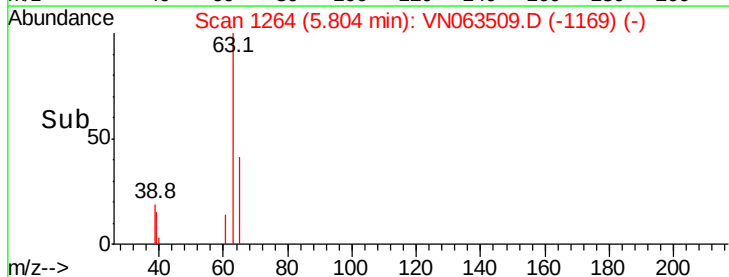
100 0.0 2.1 6.3#

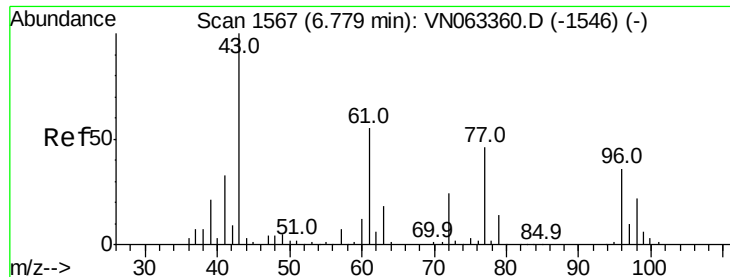


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#27

cis-1,2-Dichloroethene

Concen: 1.455 ug/l

RT: 6.78 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VN063509.D

Acq: 22 Sep 2020 1:42

Instrument :

MSVOA_N

ClientSampleId :

RE139D1-20200915

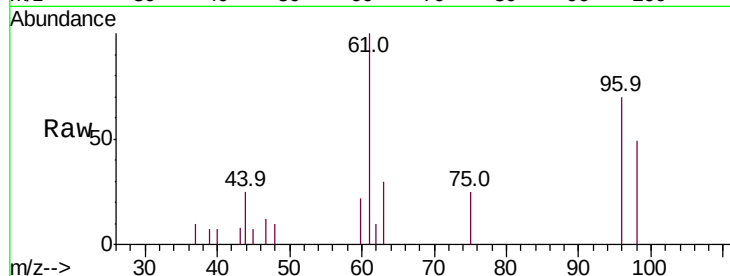
Tot Ion: 96 Resp: 4892

Ion Ratio Lower Upper

96 100

61 136.3 0.0 319.6

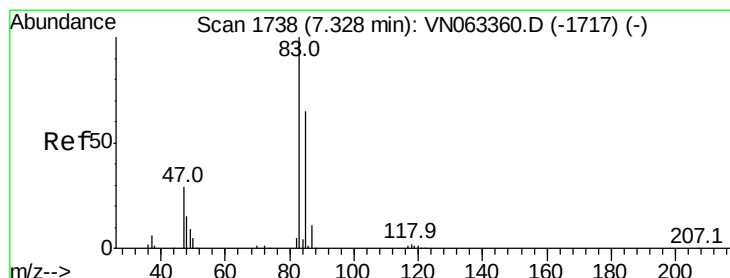
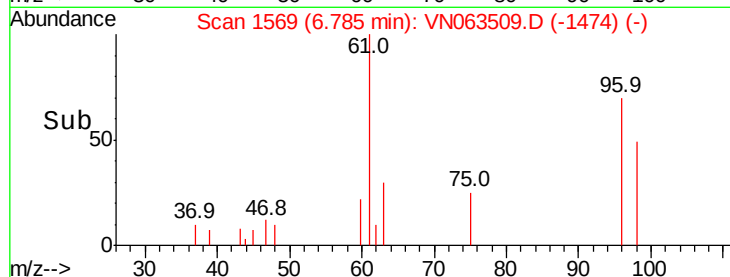
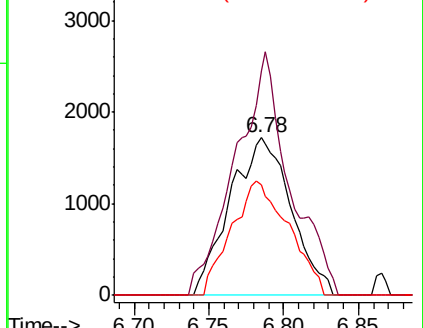
98 67.5 0.0 127.8



Abundance Ion 95.90 (95.60 to 96.60): VN063360.D (-1546) (-)

Ion 60.90 (60.60 to 61.60): VN063360.D (-1546) (-)

Ion 97.90 (97.60 to 98.60): VN063360.D (-1546) (-)



#30

Chloroform

Concen: 0.518 ug/l

RT: 7.32 min Scan# 1737

Delta R.T. -0.00 min

Lab File: VN063509.D

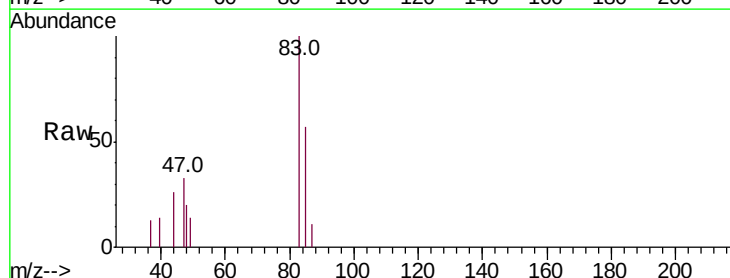
Acq: 22 Sep 2020 1:42

Tgt Ion: 83 Resp: 3066

Ion Ratio Lower Upper

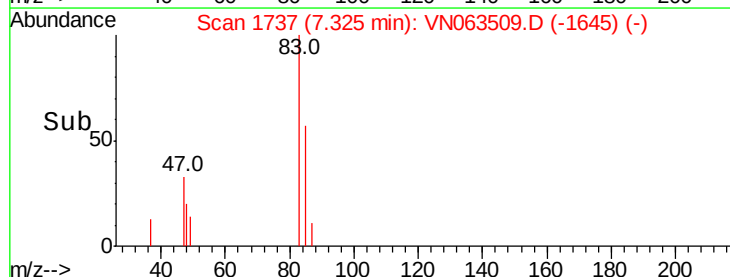
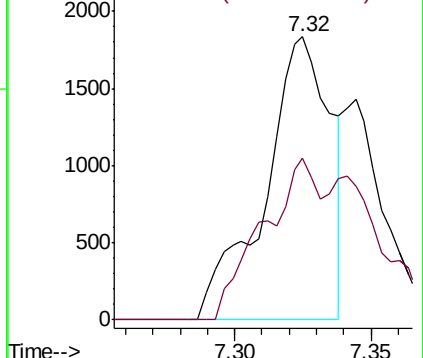
83 100

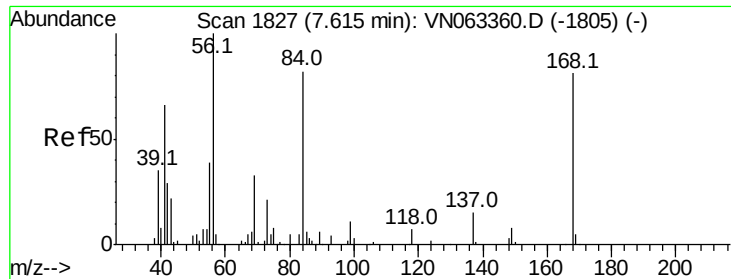
85 57.1 52.1 78.1



Abundance Ion 82.90 (82.60 to 83.60): VN063360.D (-1717) (-)

Ion 84.90 (84.60 to 85.60): VN063360.D (-1717) (-)

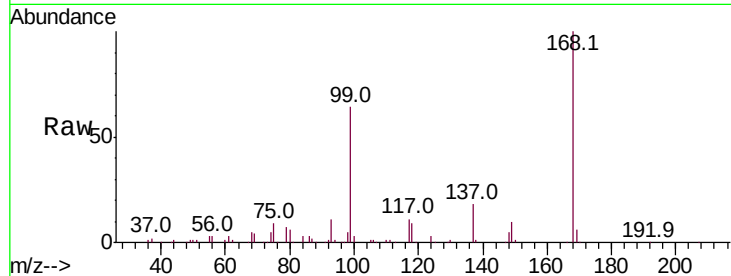




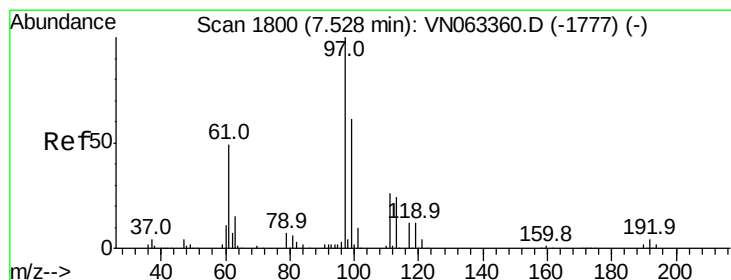
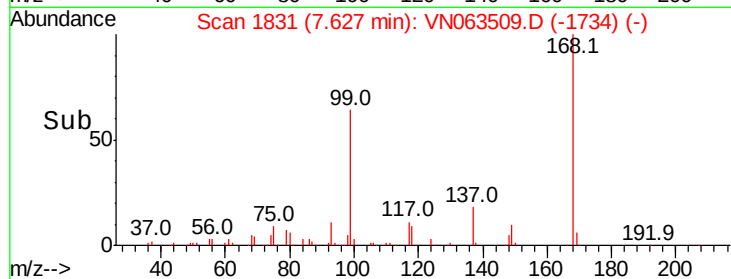
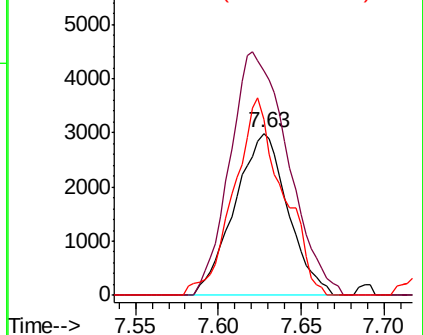
#31
Cyclohexane
Concen: 1.195 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN063509.D
Acq: 22 Sep 2020 1:42

Instrument :
MSVOA_N
ClientSampleId :
RE139D1-20200915

Tot Ion: 56 Resp: 6670
Ion Ratio Lower Upper
56 100
69 138.6 26.1 39.1#
84 108.4 65.4 98.2#

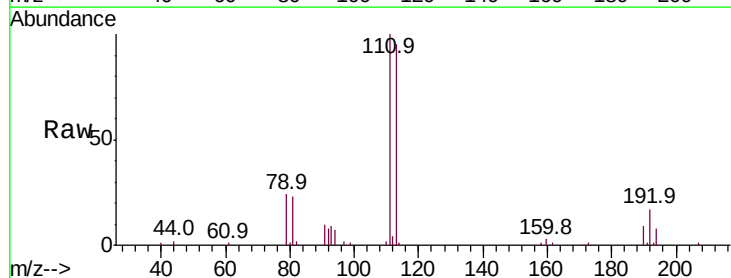


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

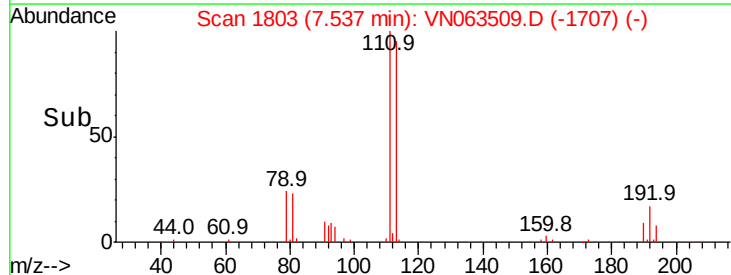
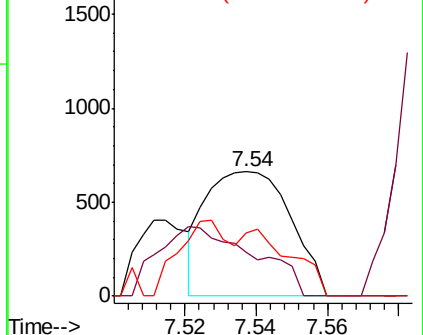


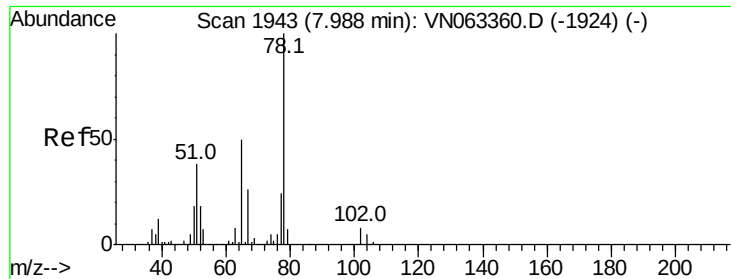
#32
1,1,1-Trichloroethane
Concen: 0.207 ug/l
RT: 7.54 min Scan# 1803
Delta R.T. 0.01 min
Lab File: VN063509.D
Acq: 22 Sep 2020 1:42

Tgt Ion: 97 Resp: 1092
Ion Ratio Lower Upper
97 100
99 0.0 50.6 76.0#
61 36.7 39.2 58.8#



Abundance Ion 96.90 (96.60 to 97.60): VN0
Ion 98.90 (98.60 to 99.60): VN0
Ion 60.90 (60.60 to 61.60): VN0

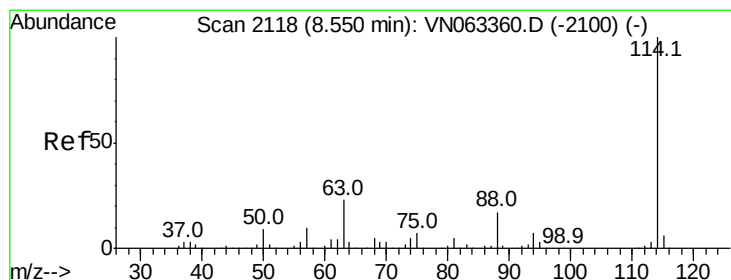
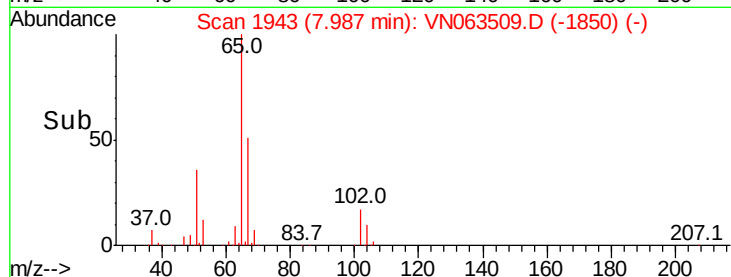
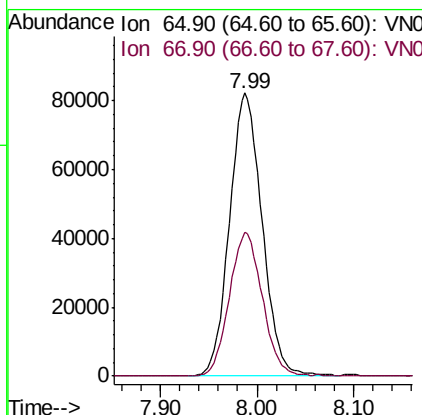
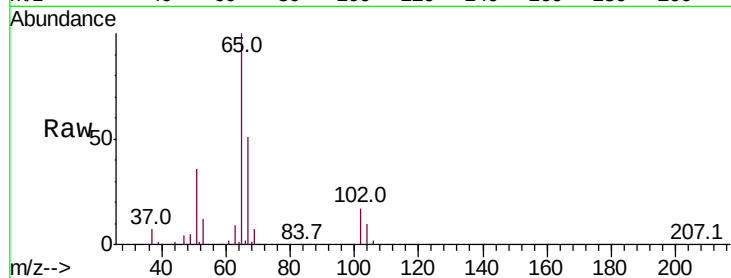




#33
 1,2-Dichloroethane-d4
 Concen: 47.593 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN063509.D
 Acq: 22 Sep 2020 1:42

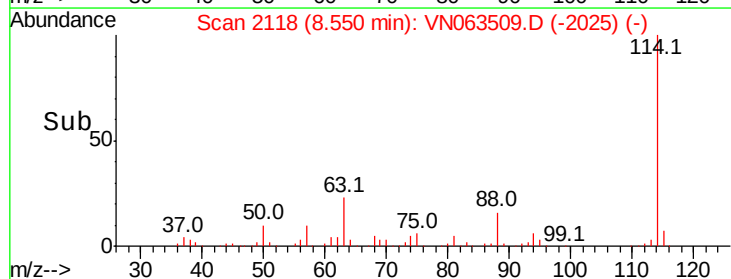
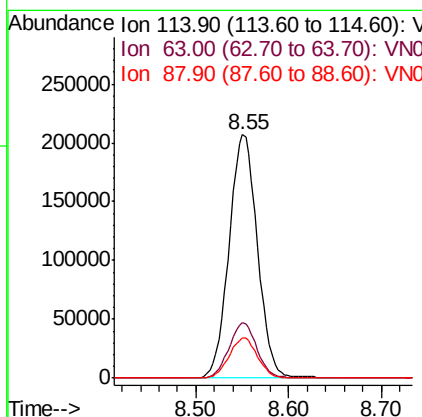
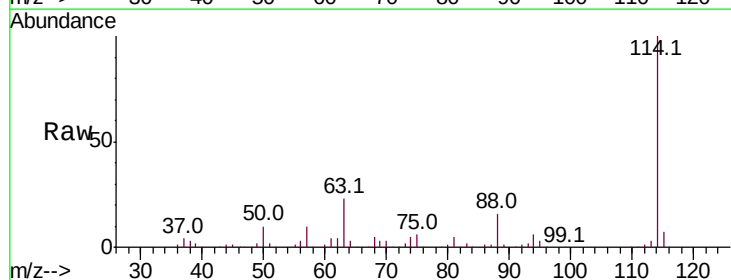
Instrument :
 MSVOA_N
 ClientSampleId :
 RE139D1-20200915

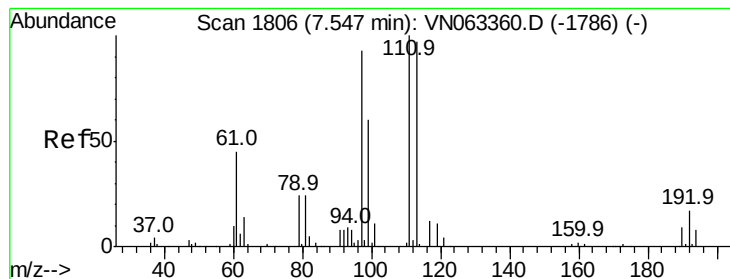
Tot Ion: 65 Resp: 192418
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063509.D
 Acq: 22 Sep 2020 1:42

Tgt Ion: 114 Resp: 438609
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 46.4
 88 16.3 0.0 33.2





#35

Dibromofluoromethane

Concen: 45.857 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063509.D

Acq: 22 Sep 2020 1:42

Instrument :

MSVOA_N

ClientSampleId :

RE139D1-20200915

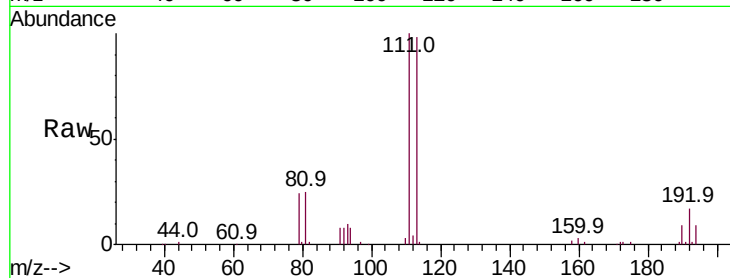
Tot Ion:113 Resp: 139239

Ion Ratio Lower Upper

113 100

111 102.9 82.9 124.3

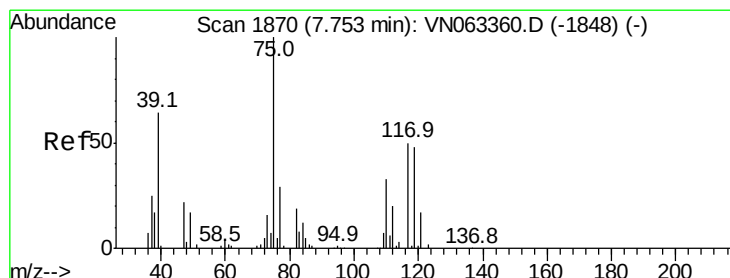
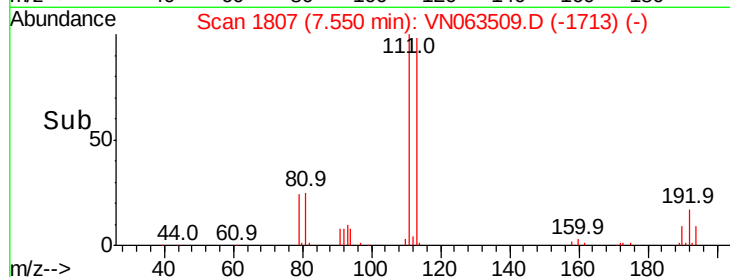
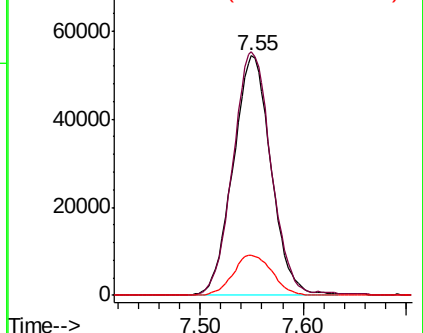
192 17.3 13.9 20.9



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: 4.815 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063509.D

Acq: 22 Sep 2020 1:42

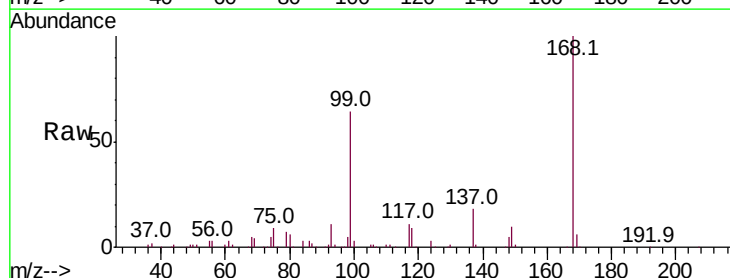
Tgt Ion: 75 Resp: 22500

Ion Ratio Lower Upper

75 100

110 4.2 16.5 49.5#

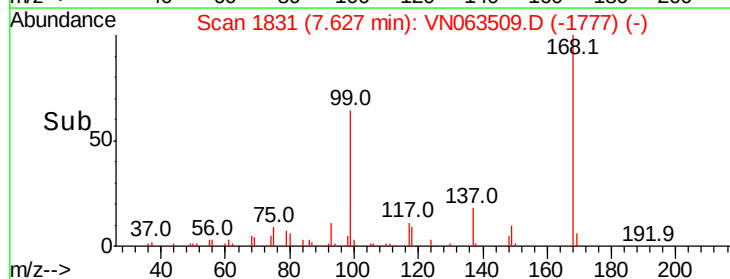
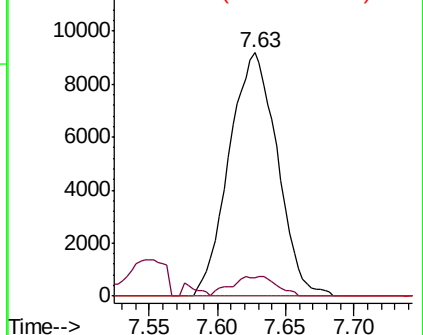
77 0.0 24.6 36.8#

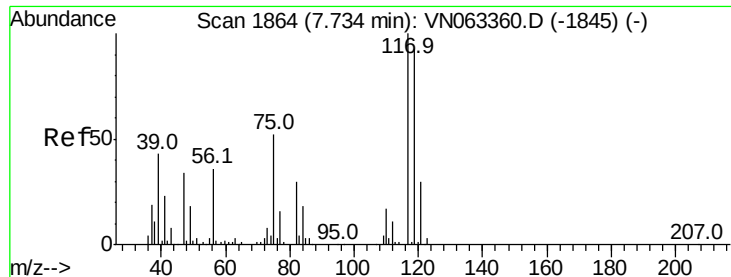


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

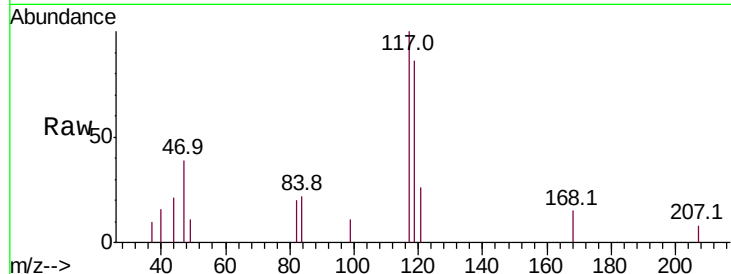




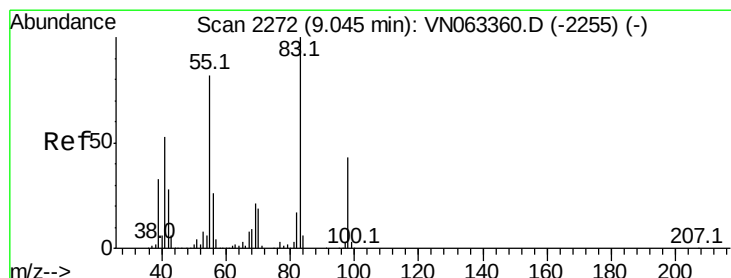
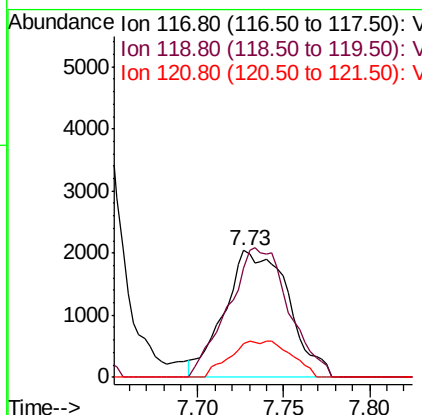
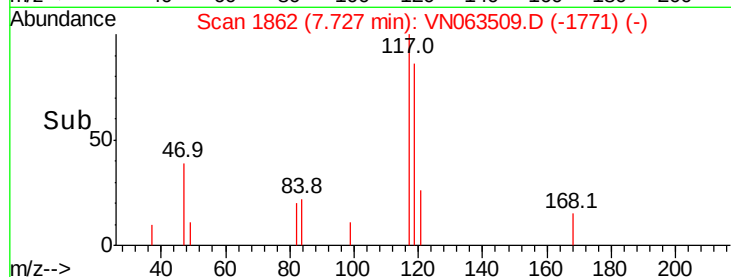
#38
Carbon Tetrachloride
Concen: 1.105 ug/l
RT: 7.73 min Scan# 1862
Delta R.T. -0.01 min
Lab File: VN063509.D
Acq: 22 Sep 2020 1:42

Instrument :
MSVOA_N
ClientSampleId :
RE139D1-20200915

Tot Ion:117 Resp: 5272
Ion Ratio Lower Upper
117 100
119 85.9 74.5 111.7
121 26.1 24.1 36.1

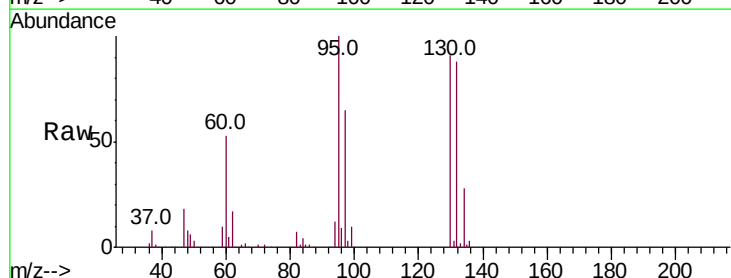


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

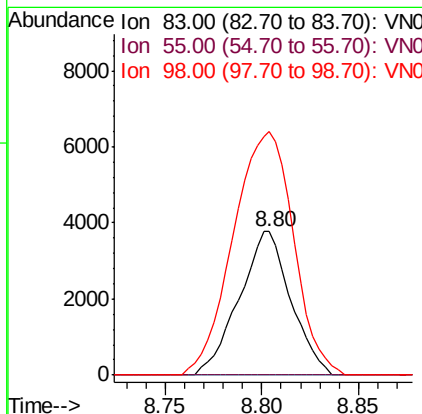
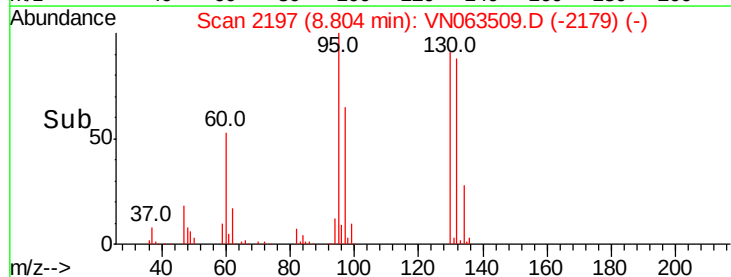


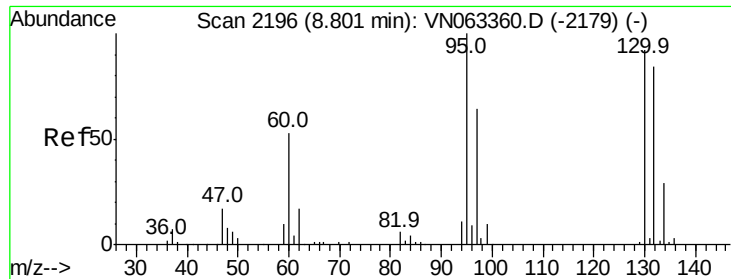
#39
Methylcyclohexane
Concen: 1.381 ug/l
RT: 8.80 min Scan# 2197
Delta R.T. -0.24 min
Lab File: VN063509.D
Acq: 22 Sep 2020 1:42

Tgt Ion: 83 Resp: 7002
Ion Ratio Lower Upper
83 100
55 0.0 65.5 98.3#
98 165.8 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





#44

Trichloroethene

Concen: 150.310 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN063509.D

Acq: 22 Sep 2020 1:42

Instrument :

MSVOA_N

ClientSampleId :

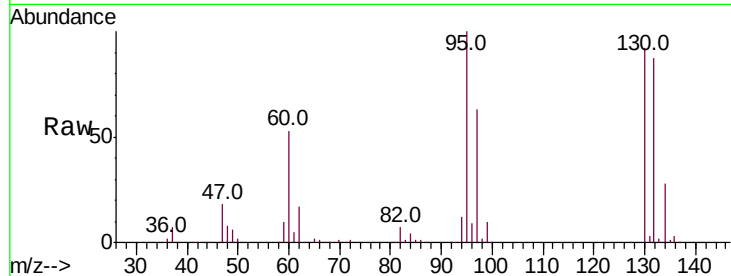
RE139D1-20200915

Tot Ion:130 Resp: 486301

Ion Ratio Lower Upper

130 100

95 108.9 0.0 217.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0

300000

250000

200000

150000

100000

50000

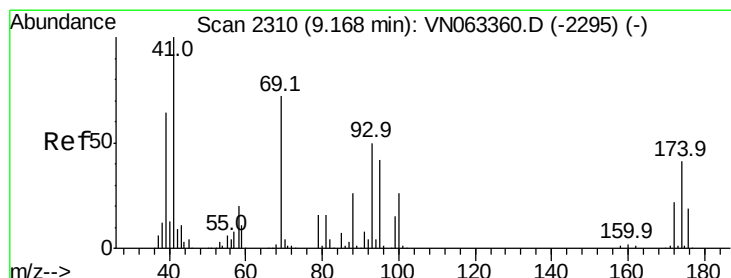
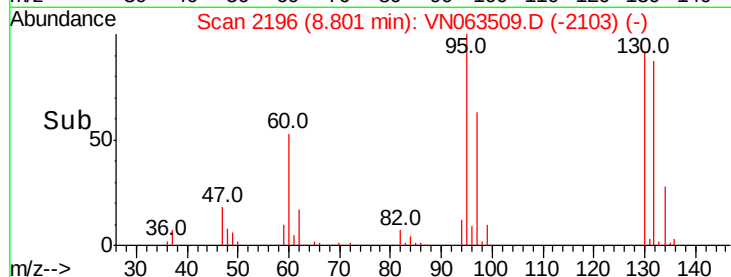
0

8.70

8.80

8.90

Time-->



#49

1,4-Dioxane

Concen: 7.454 ug/l

RT: 9.17 min Scan# 2312

Delta R.T. 0.01 min

Lab File: VN063509.D

Acq: 22 Sep 2020 1:42

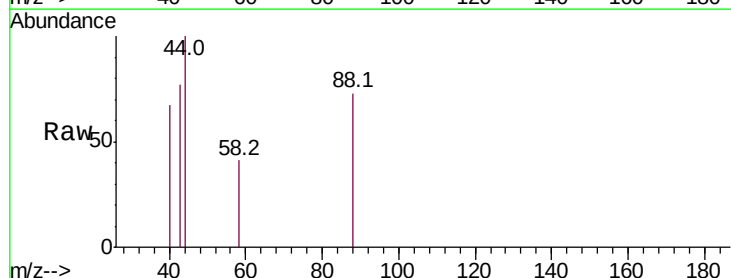
Tgt Ion: 88 Resp: 431

Ion Ratio Lower Upper

88 100

43 32.0 32.6 49.0#

58 73.5 60.0 90.0



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

500

400

300

200

100

0

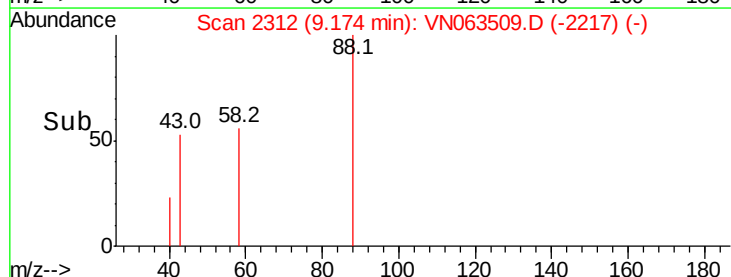
9.14

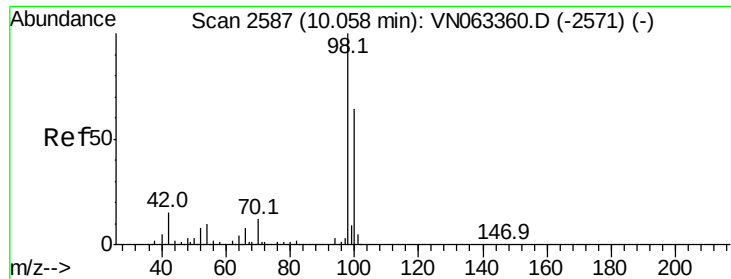
9.16

9.18

9.20

Time-->





#50

Toluene-d8

Concen: 49.430 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063509.D

Acq: 22 Sep 2020 1:42

Instrument :

MSVOA_N

ClientSampleId :

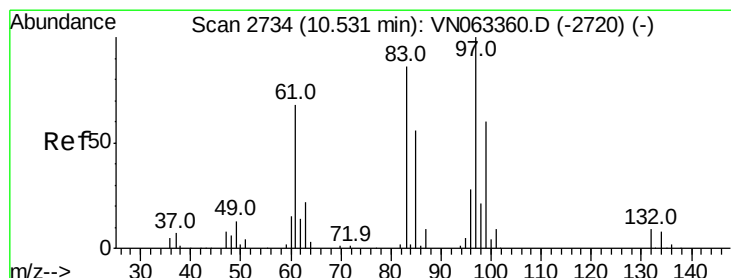
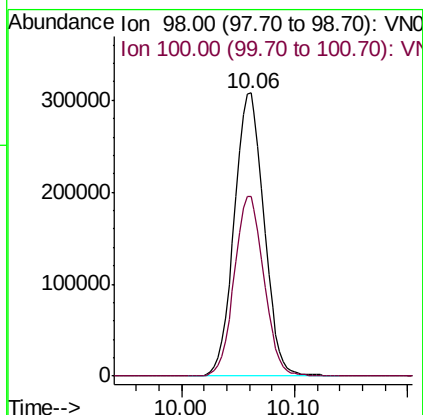
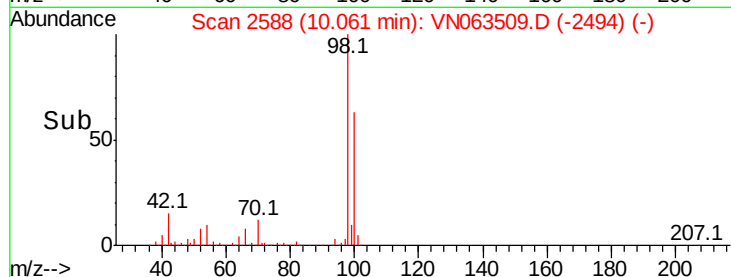
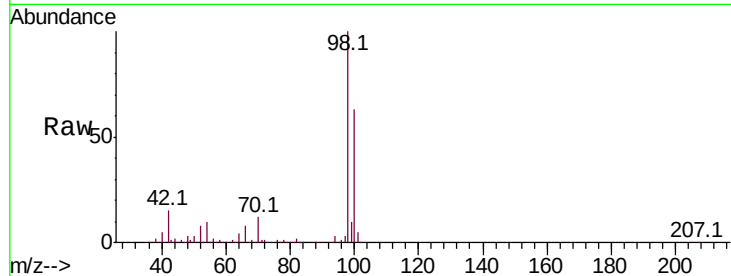
RE139D1-20200915

Tot Ion: 98 Resp: 564360

Ion Ratio Lower Upper

98 100

100 63.3 50.7 76.1



#55

1,1,2-Trichloroethane

Concen: 0.972 ug/l

RT: 10.54 min Scan# 2736

Delta R.T. 0.01 min

Lab File: VN063509.D

Acq: 22 Sep 2020 1:42

Tgt Ion: 97 Resp: 3096

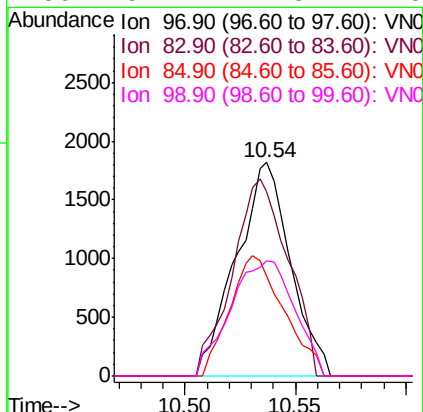
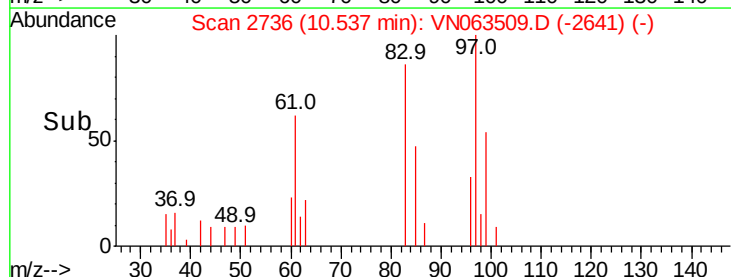
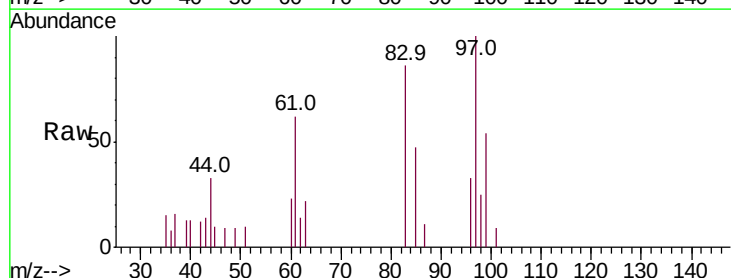
Ion Ratio Lower Upper

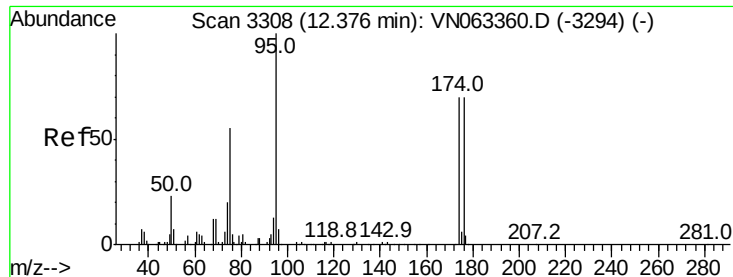
97 100

83 86.4 68.9 103.3

85 46.6 44.8 67.2

99 54.1 47.8 71.8

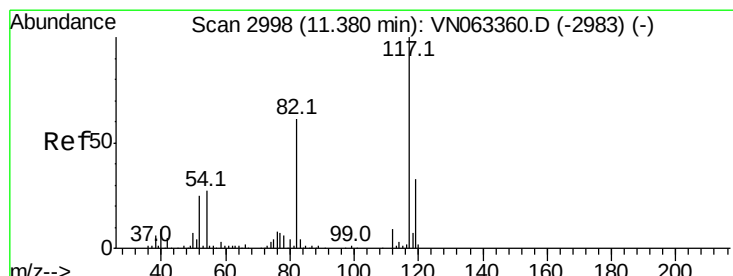
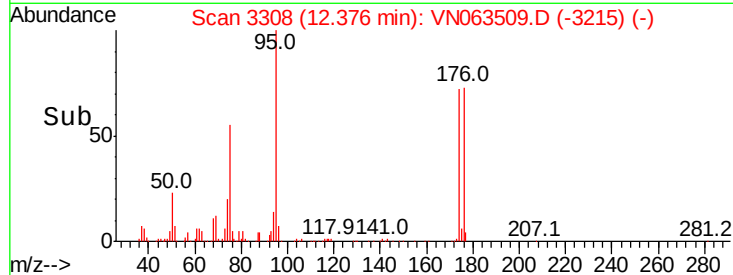
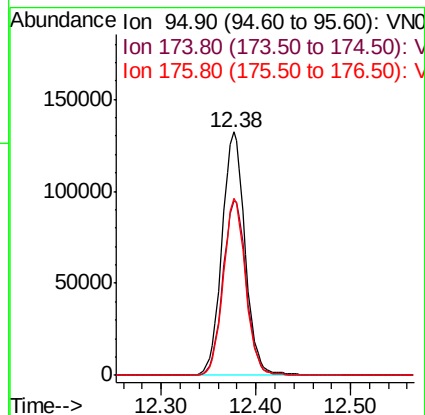
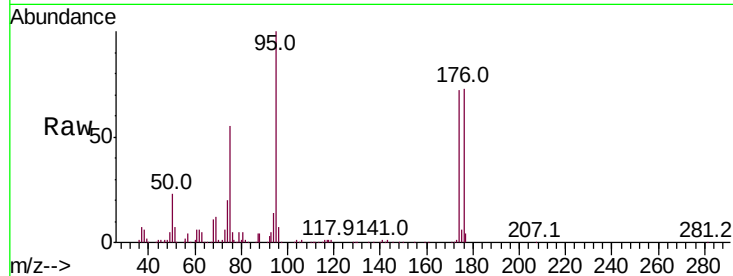




#62
4-Bromofluorobenzene
Concen: 53.632 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063509.D
Acq: 22 Sep 2020 1:42

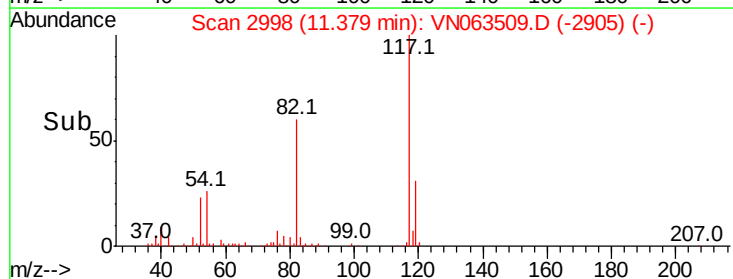
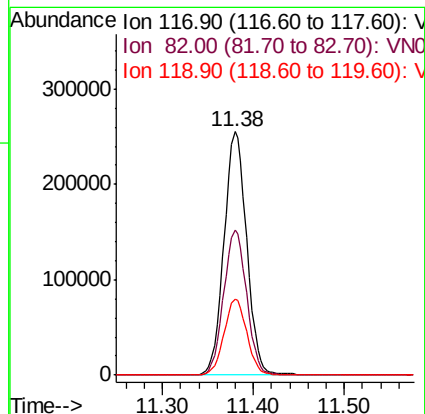
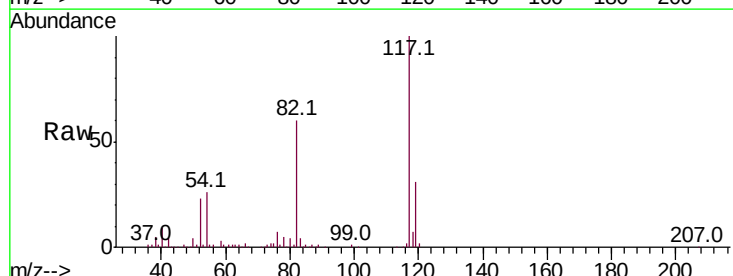
Instrument :
MSVOA_N
ClientSampleId :
RE139D1-20200915

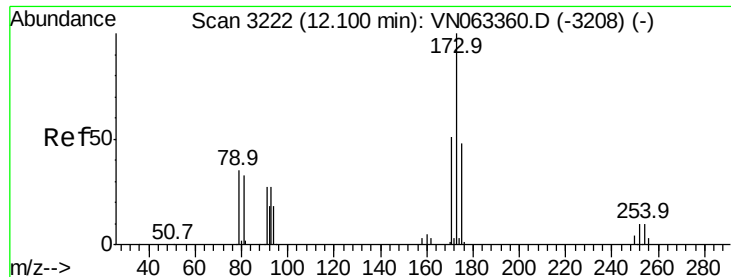
Tot Ion: 95 Resp: 224472
Ion Ratio Lower Upper
95 100
174 72.5 0.0 140.8
176 70.3 0.0 137.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063509.D
Acq: 22 Sep 2020 1:42

Tgt Ion: 117 Resp: 442946
Ion Ratio Lower Upper
117 100
82 59.6 49.2 73.8
119 31.4 26.2 39.4





#71

Bromoform

Concen: 0.791 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN063509.D

Acq: 22 Sep 2020 1:42

Instrument :

MSVOA_N

ClientSampleId :

RE139D1-20200915

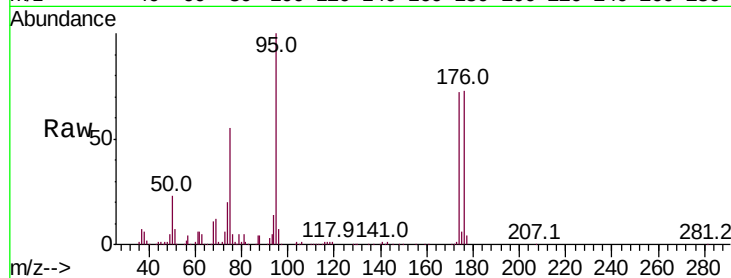
Tot Ion:173 Resp: 2030

Ion Ratio Lower Upper

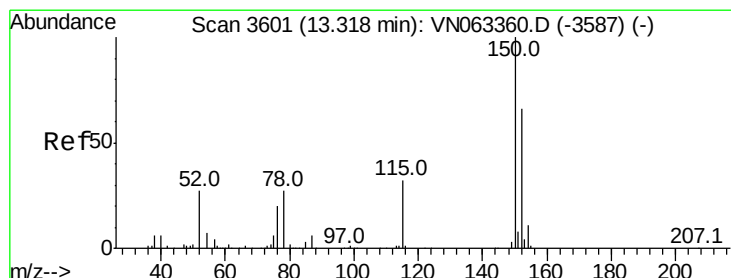
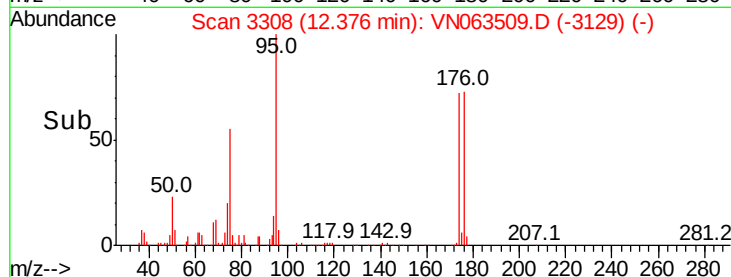
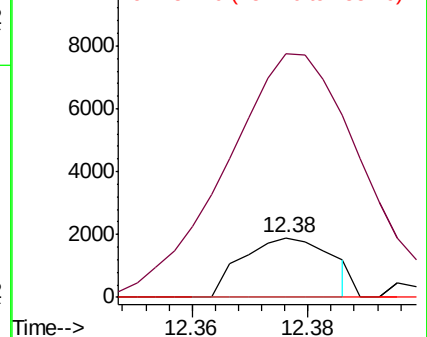
173 100

175 512.2 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: VN063509.D

Acq: 22 Sep 2020 1:42

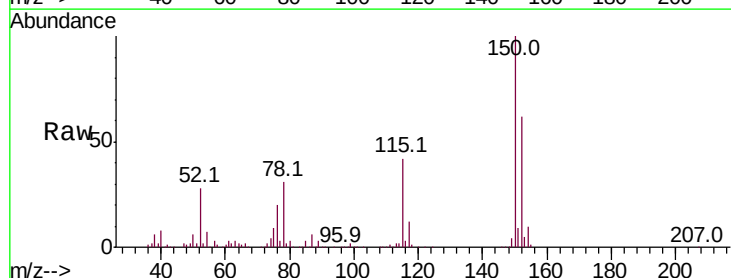
Tgt Ion:152 Resp: 191034

Ion Ratio Lower Upper

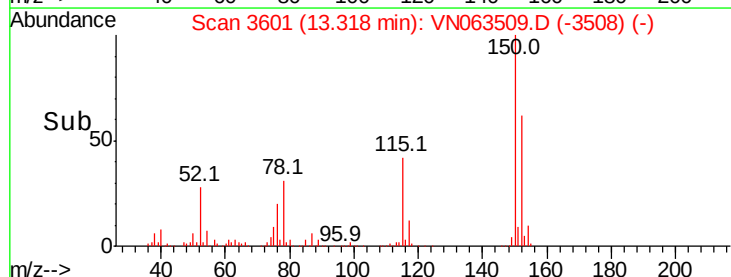
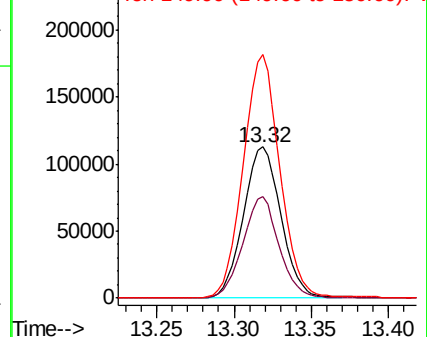
152 100

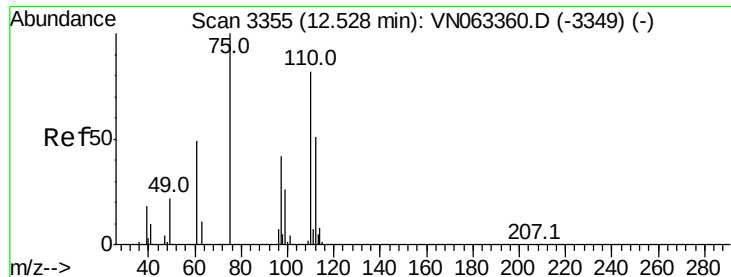
115 64.3 32.2 96.6

150 157.8 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: 25.981 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063509.D

Acq: 22 Sep 2020 1:42

Instrument :

MSVOA_N

ClientSampleId :

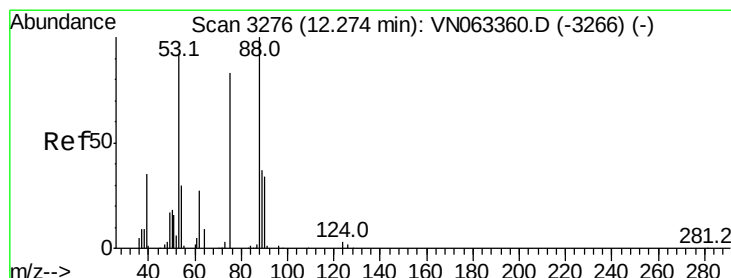
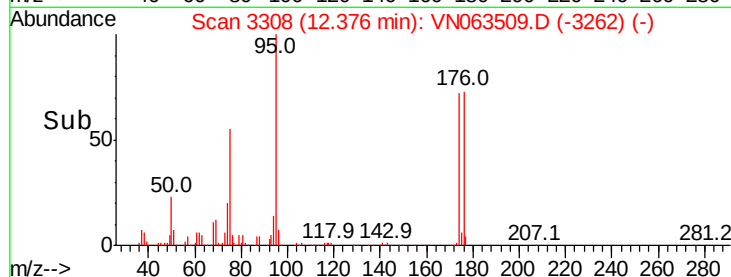
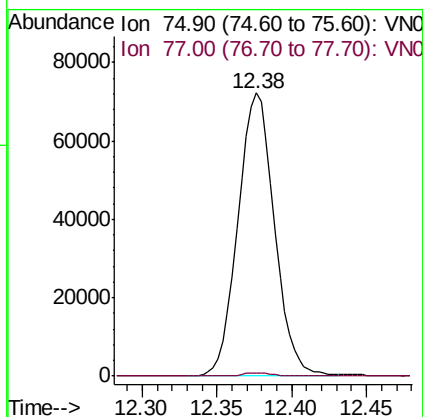
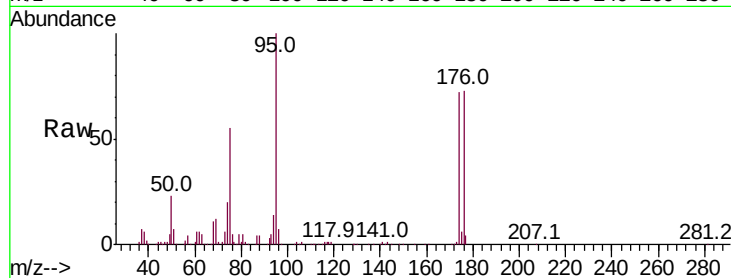
RE139D1-20200915

Tot Ion: 75 Resp: 122846

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 71.229 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063509.D

Acq: 22 Sep 2020 1:42

Tgt Ion: 75 Resp: 122846

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

