

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092120\
 Data File : VN063514.D
 Acq On : 22 Sep 2020 3:42
 Operator : JC/MD
 Sample : L4082-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE134D2-20200915

Quant Time: Sep 22 05:00:27 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	228176	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	425325	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	428292	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	180142	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	189991	48.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.82%	
35) Dibromofluoromethane	7.55	113	139571	47.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.80%	
50) Toluene-d8	10.06	98	544110	49.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.28%	
62) 4-Bromofluorobenzene	12.38	95	215337	53.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.12%	

Target Compounds

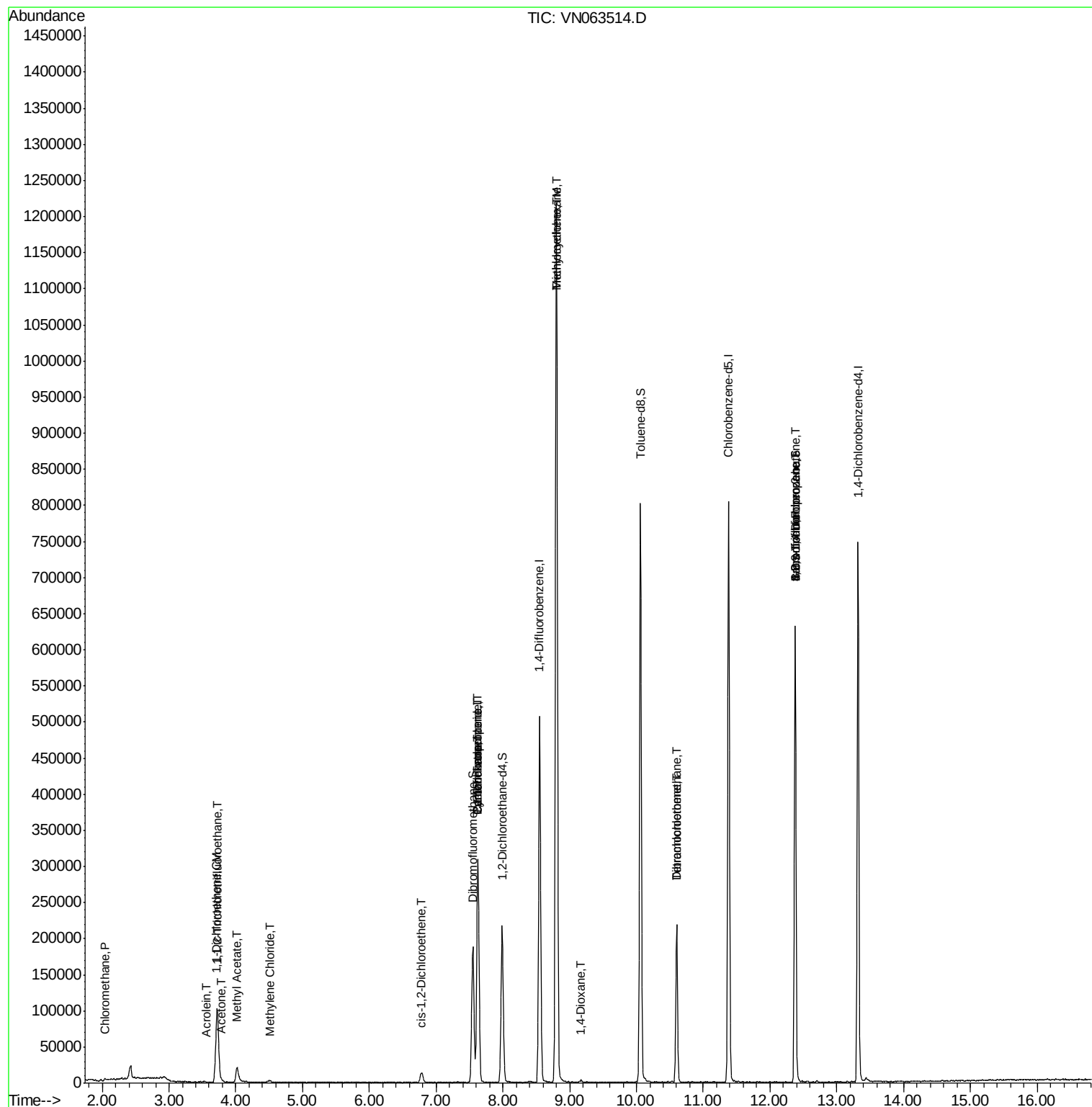
						Qvalue
3) Chloromethane	2.04	50	2169	0.634	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.72	101	61090	24.030	ug/l	99
12) 1,1-Dichloroethene	3.70	96	1693	0.657	ug/l #	69
13) Acrolein	3.57	56	134	0.672	ug/l #	13
16) Acetone	3.79	43	3124	2.503	ug/l	90
18) Methyl Acetate	4.02	43	7268	2.293	ug/l #	54
20) Methylene Chloride	4.51	84	2069	0.654	ug/l	88
27) cis-1,2-Dichloroethene	6.77	96	3319	1.028	ug/l #	1
31) Cyclohexane	7.63	56	5951	1.109	ug/l #	40
36) 1,1-Dichloropropene	7.63	75	21305	4.702	ug/l #	52
38) Carbon Tetrachloride	7.63	117	26009	5.623	ug/l #	17
39) Methylcyclohexane	8.80	83	5760	1.171	ug/l #	1
44) Trichloroethene	8.80	130	406899	129.696	ug/l	98
49) 1,4-Dioxane	9.17	88	2327	41.504	ug/l #	82
60) Dibromochloromethane	10.60	129	43972	12.600	ug/l #	10
64) Tetrachloroethene	10.60	164	45122	15.472	ug/l	95
71) Bromoform	12.38	173	515	0.207	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	120675	27.065	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	120675	74.201	ug/l #	7

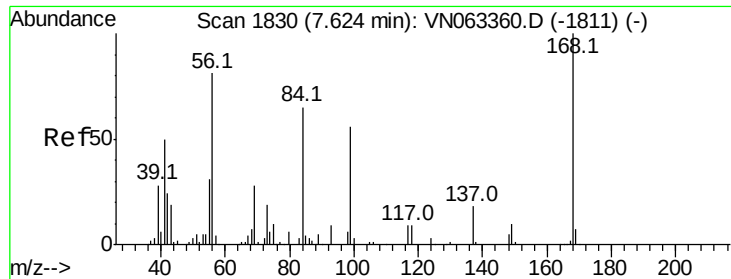
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063514.D

Acq: 22 Sep 2020 3:42

Instrument :

MSVOA_N

ClientSampleId :

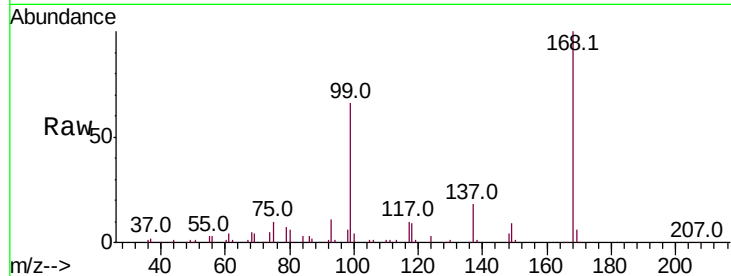
RE134D2-20200915

Tot Ion:168 Resp: 228176

Ion Ratio Lower Upper

168 100

99 65.8 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

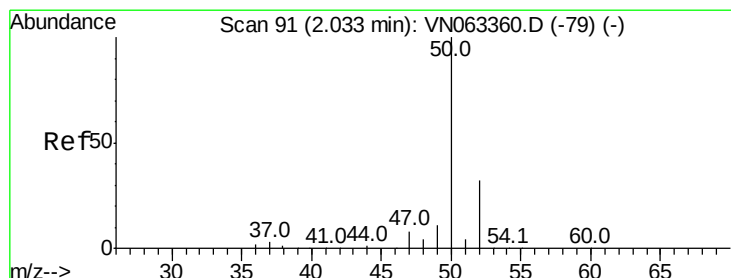
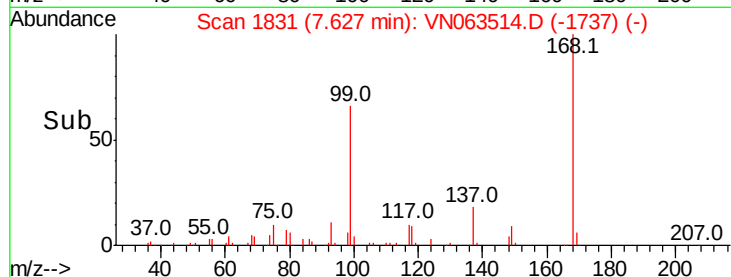
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#3

Chloromethane

Concen: 0.634 ug/l

RT: 2.04 min Scan# 92

Delta R.T. 0.00 min

Lab File: VN063514.D

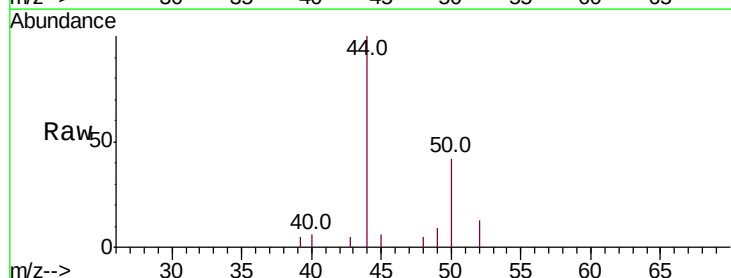
Acq: 22 Sep 2020 3:42

Tgt Ion: 50 Resp: 2169

Ion Ratio Lower Upper

50 100

52 30.8 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

1500

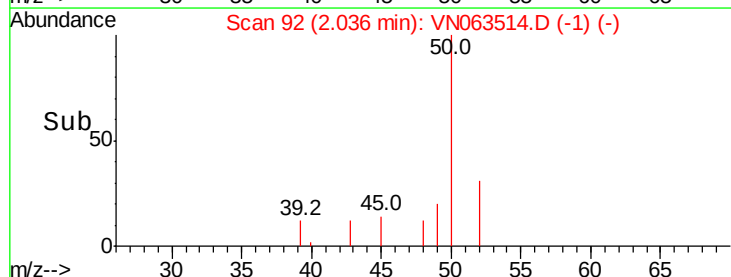
1000

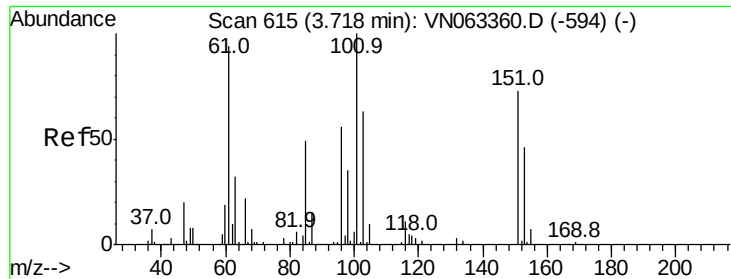
500

0

2.00 2.05

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 24.030 ug/l

RT: 3.72 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN063514.D

Acq: 22 Sep 2020 3:42

Instrument :

MSVOA_N

ClientSampleId :

RE134D2-20200915

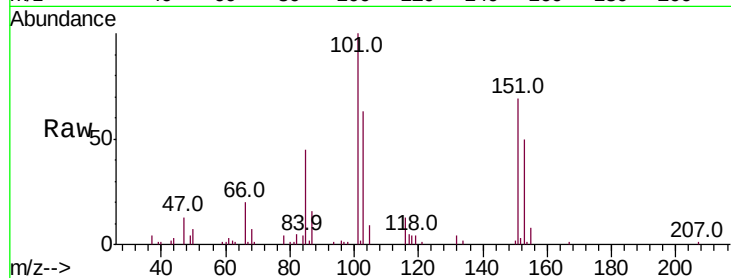
Tot Ion:101 Resp: 61090

Ion Ratio Lower Upper

101 100

85 48.1 37.7 56.5

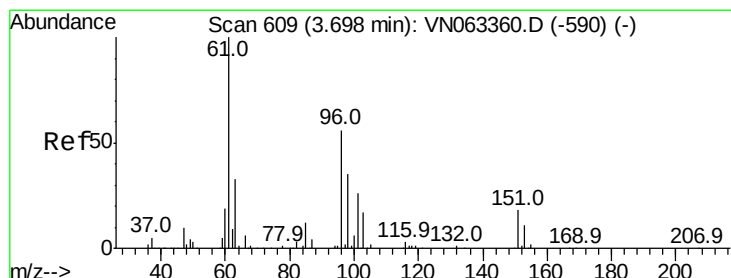
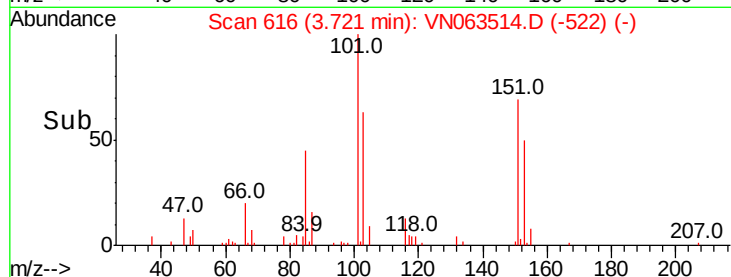
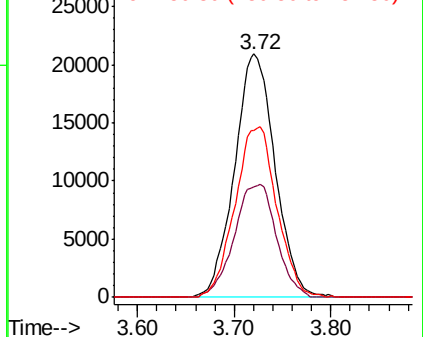
151 72.1 57.7 86.5



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VNO

Ion 150.80 (150.50 to 151.50): V



#12

1,1-Dichloroethene

Concen: 0.657 ug/l

RT: 3.70 min Scan# 610

Delta R.T. 0.00 min

Lab File: VN063514.D

Acq: 22 Sep 2020 3:42

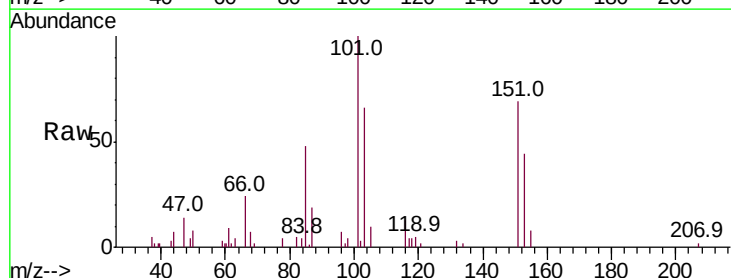
Tgt Ion: 96 Resp: 1693

Ion Ratio Lower Upper

96 100

61 124.4 143.4 215.2#

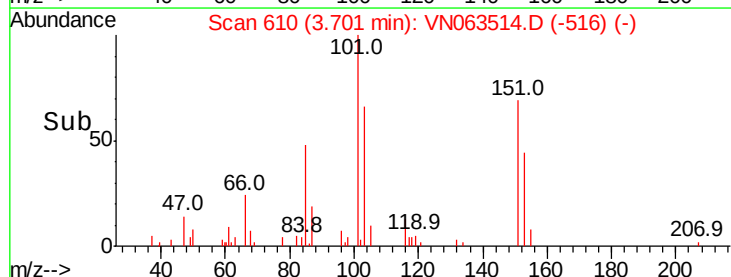
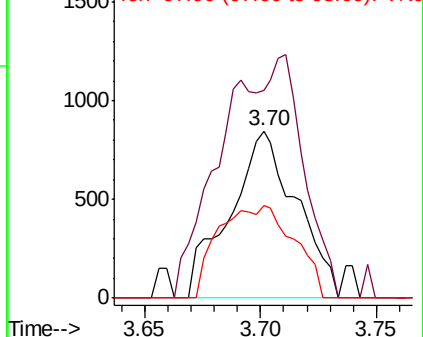
98 55.0 50.6 76.0

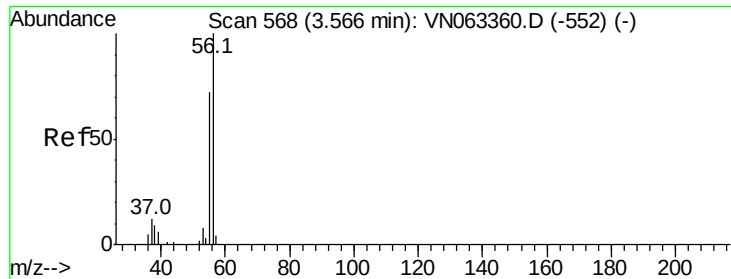


Abundance Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO





#13

Acrolein

Concen: 0.672 ug/l

RT: 3.57 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN063514.D

Acq: 22 Sep 2020 3:42

Instrument :

MSVOA_N

ClientSampleId :

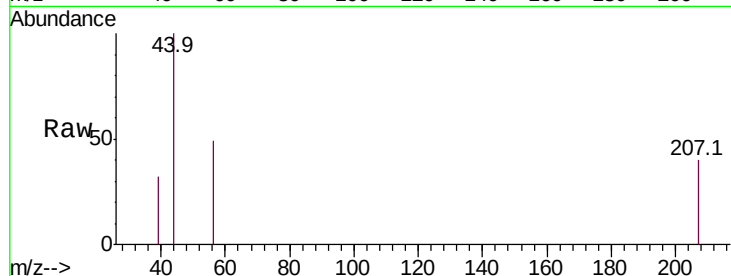
RE134D2-20200915

Tot Ion: 56 Resp: 134

Ion Ratio Lower Upper

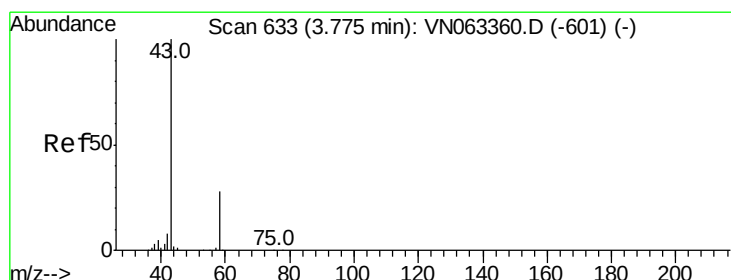
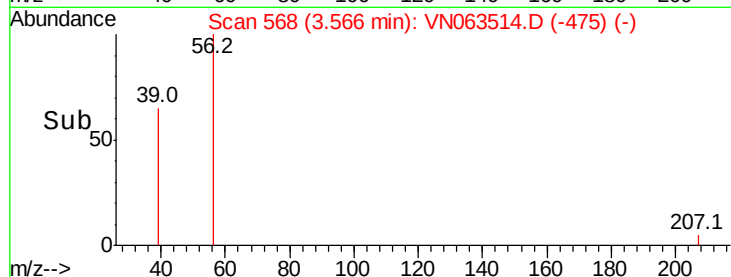
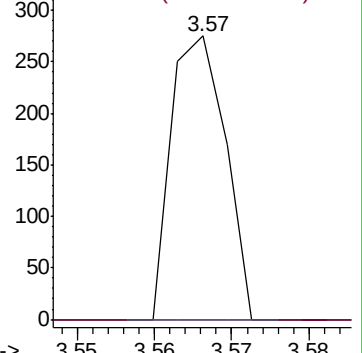
56 100

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: 2.503 ug/l

RT: 3.79 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN063514.D

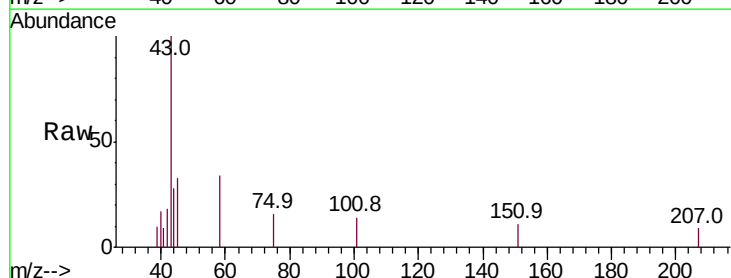
Acq: 22 Sep 2020 3:42

Tgt Ion: 43 Resp: 3124

Ion Ratio Lower Upper

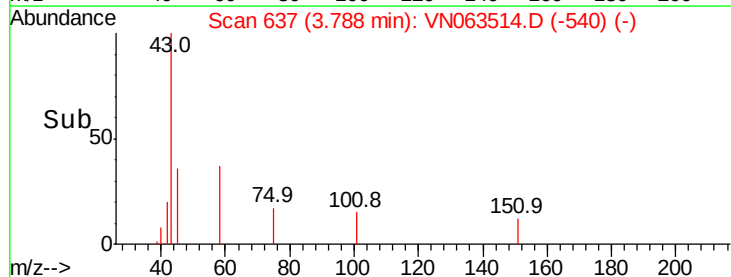
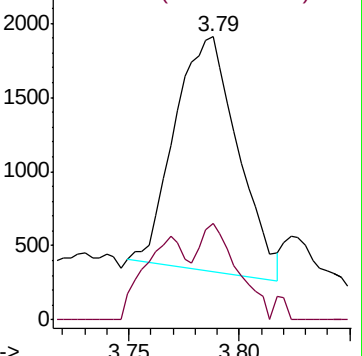
43 100

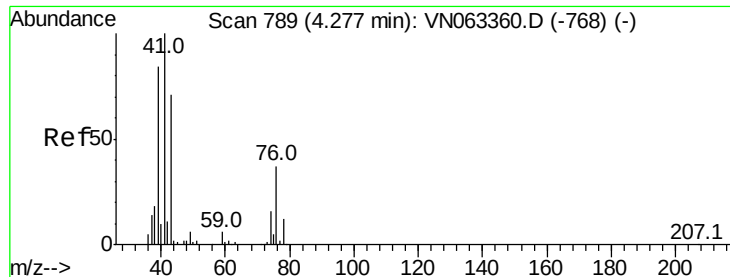
58 33.0 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

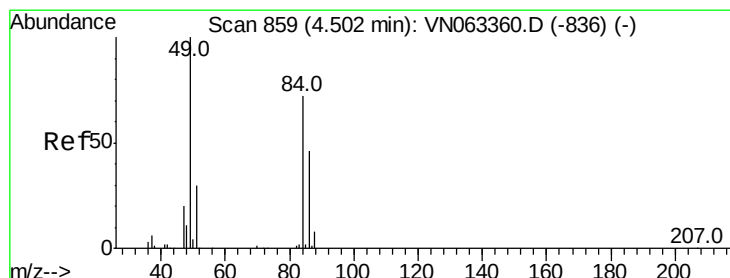
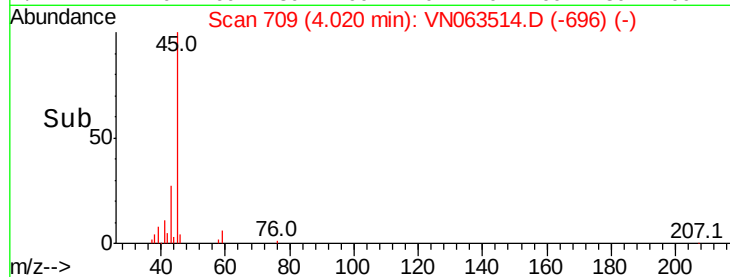
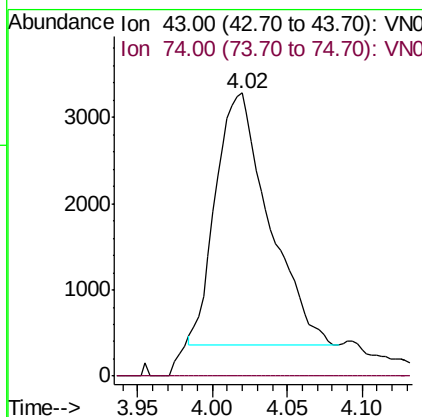
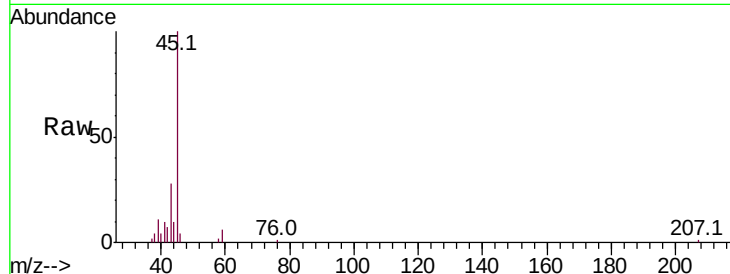




#18
Methvl Acetate
Concen: 2.293 ug/l
RT: 4.02 min Scan# 709
Delta R.T. -0.26 min
Lab File: VN063514.D
Acq: 22 Sep 2020 3:42

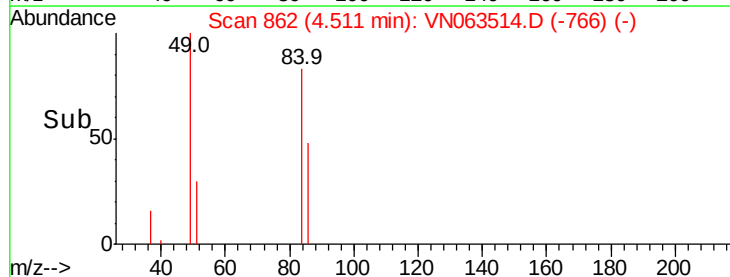
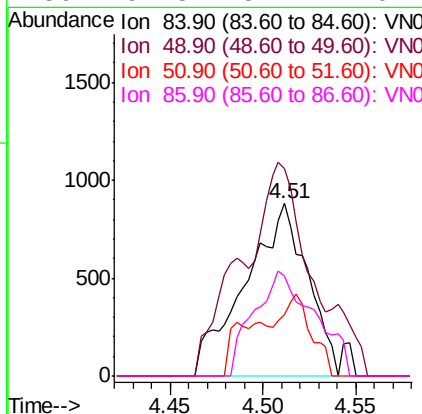
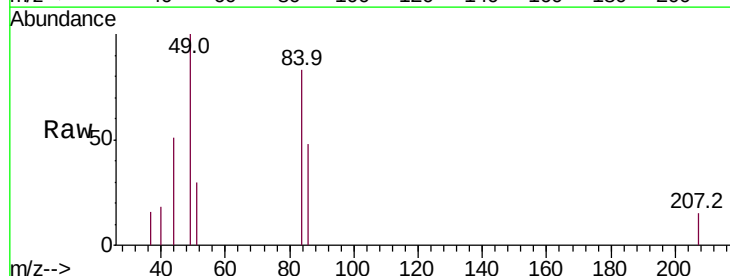
Instrument :
MSVOA_N
ClientSampleId :
RE134D2-20200915

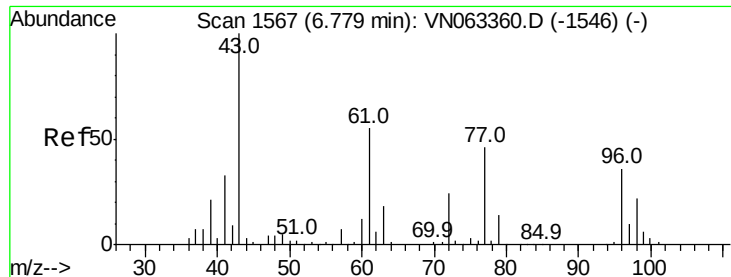
Tot Ion: 43 Resp: 7268
Ion Ratio Lower Upper
43 100
74 0.0 17.4 26.2#



#20
Methylene Chloride
Concen: 0.654 ug/l
RT: 4.51 min Scan# 862
Delta R.T. 0.01 min
Lab File: VN063514.D
Acq: 22 Sep 2020 3:42

Tgt Ion: 84 Resp: 2069
Ion Ratio Lower Upper
84 100
49 120.7 110.7 166.1
51 36.0 32.9 49.3
86 57.8 51.1 76.7





#27

cis-1,2-Dichloroethene

Concen: 1.028 ug/l

RT: 6.77 min Scan# 1565

Delta R.T. -0.01 min

Lab File: VN063514.D

Acq: 22 Sep 2020 3:42

Instrument :

MSVOA_N

ClientSampleId :

RE134D2-20200915

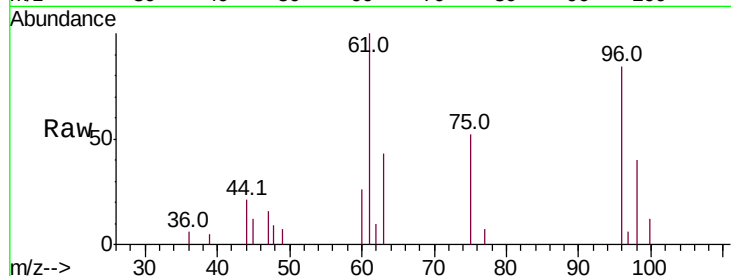
Tot Ion: 96 Resp: 3319

Ion Ratio Lower Upper

96 100

61 297.8 0.0 319.6

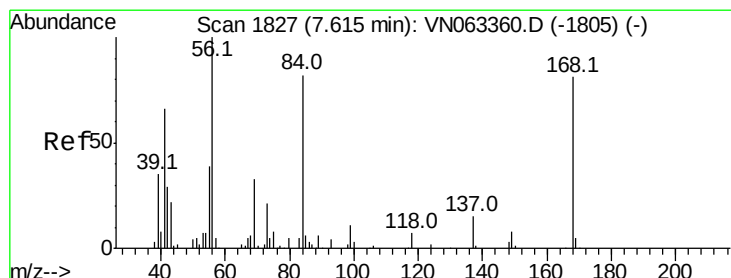
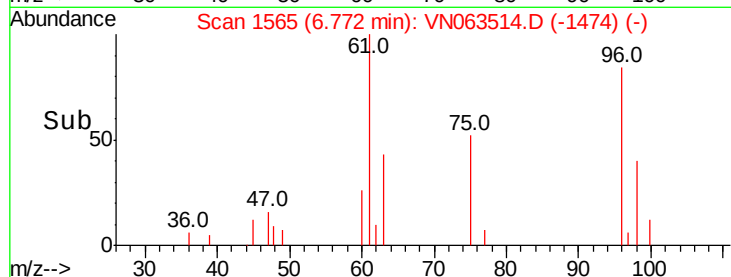
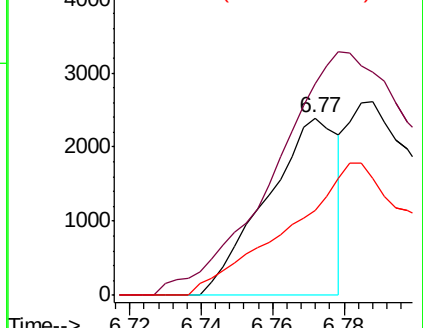
98 136.3 0.0 127.8#



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) (-)



#31

Cyclohexane

Concen: 1.109 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063514.D

Acq: 22 Sep 2020 3:42

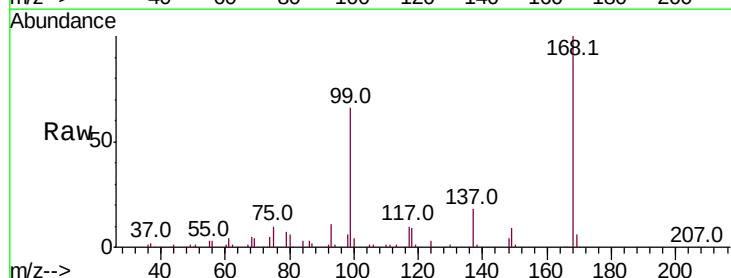
Tgt Ion: 56 Resp: 5951

Ion Ratio Lower Upper

56 100

69 129.9 26.1 39.1#

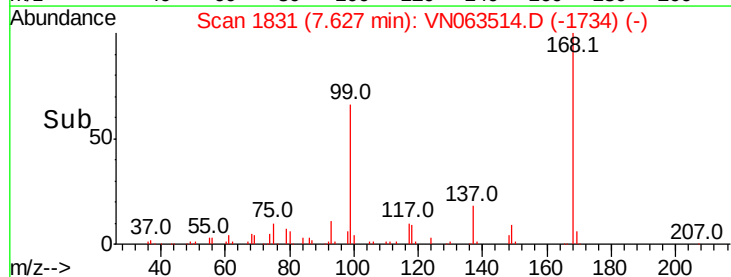
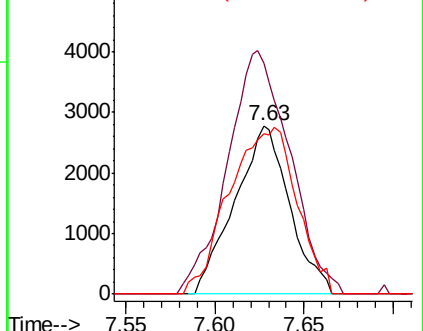
84 94.8 65.4 98.2

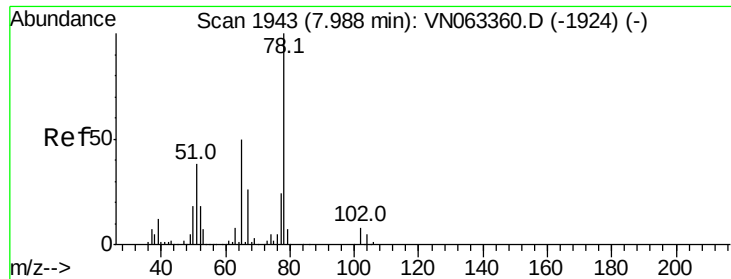


Abundance Ion 56.00 (55.70 to 56.70): VN063360.D (-1805) (-)

Ion 69.00 (68.70 to 69.70): VN063360.D (-1805) (-)

Ion 84.00 (83.70 to 84.70): VN063360.D (-1805) (-)





#33

1,2-Dichloroethane-d4

Concen: 48.914 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

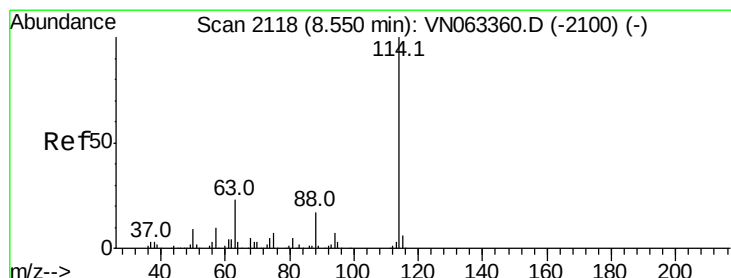
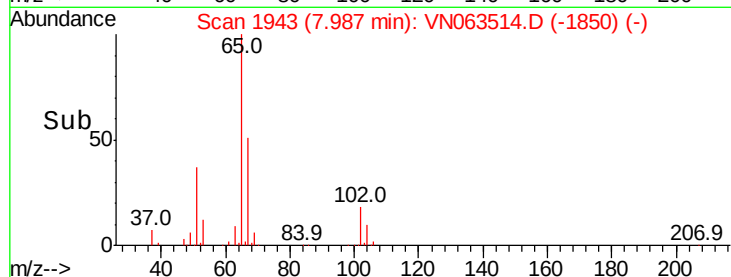
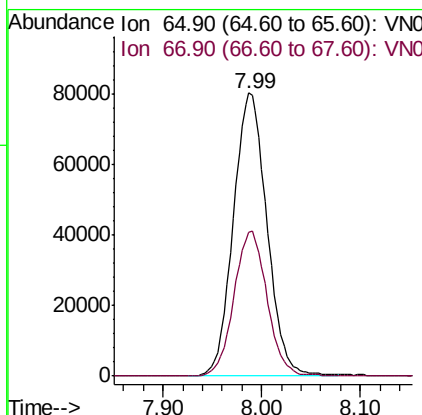
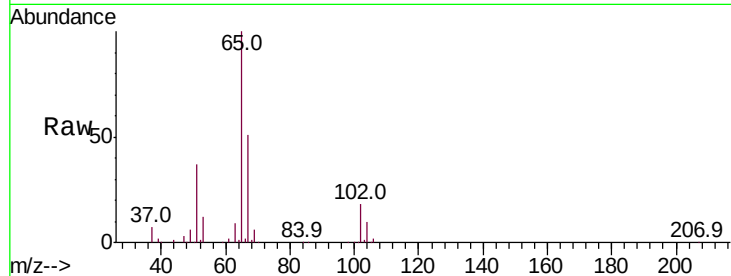
Lab File: VN063514.D

Acq: 22 Sep 2020 3:42

Instrument :
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RE134D2-20200915

Tot Ion: 65 Resp: 189991

Ion	Ratio	Lower	Upper
65	100		
67	50.1	0.0	104.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

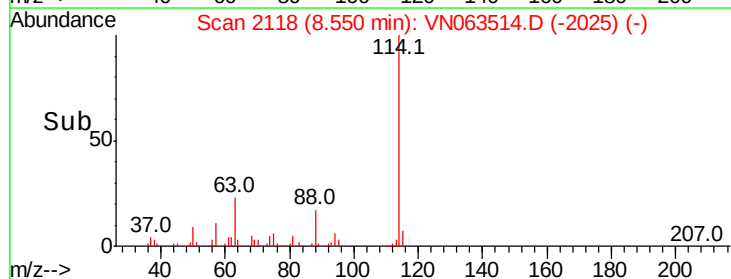
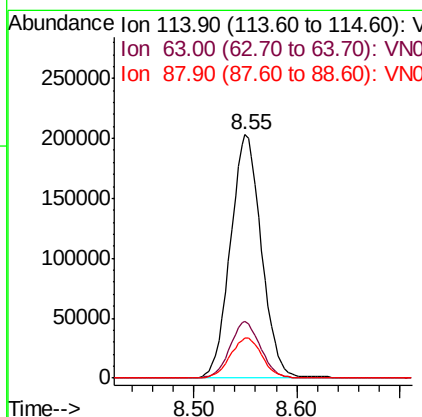
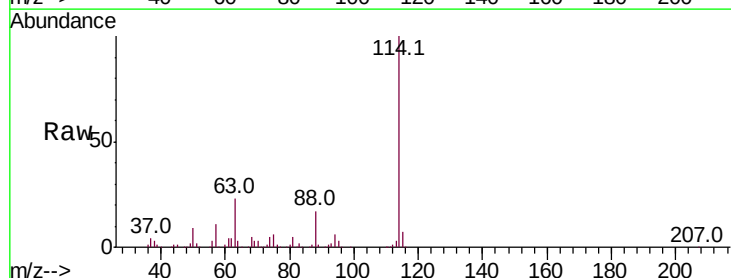
Delta R.T. -0.00 min

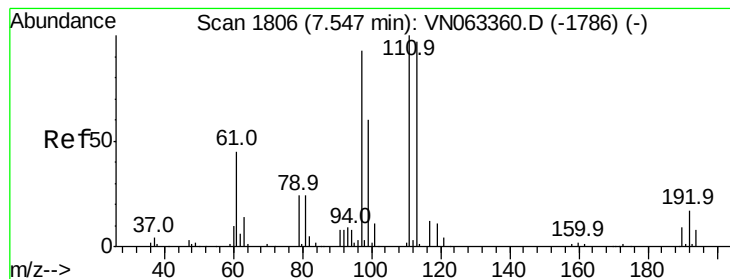
Lab File: VN063514.D

Acq: 22 Sep 2020 3:42

Tgt Ion: 114 Resp: 425325

Ion	Ratio	Lower	Upper
114	100		
63	23.3	0.0	46.4
88	16.6	0.0	33.2





#35

Dibromofluoromethane

Concen: 47.402 ug/l

RT: 7.55 min Scan# 1806

Delta R.T. -0.00 min

Lab File: VN063514.D

Acq: 22 Sep 2020 3:42

Instrument :

MSVOA_N

ClientSampleId :

RE134D2-20200915

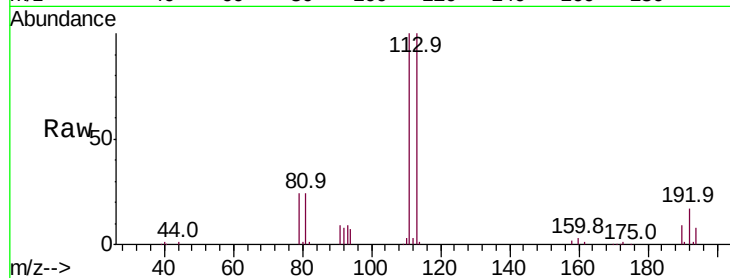
Tot Ion:113 Resp: 139571

Ion Ratio Lower Upper

113 100

111 102.1 82.9 124.3

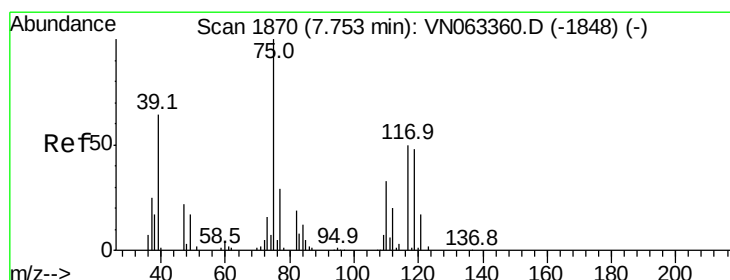
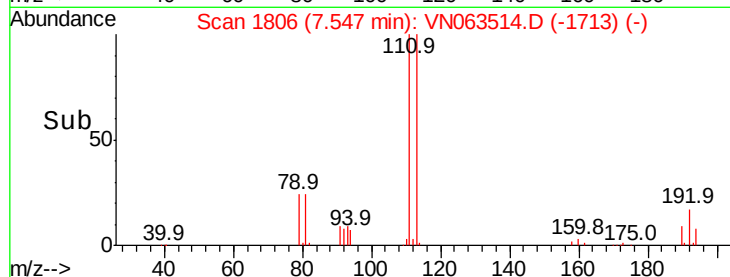
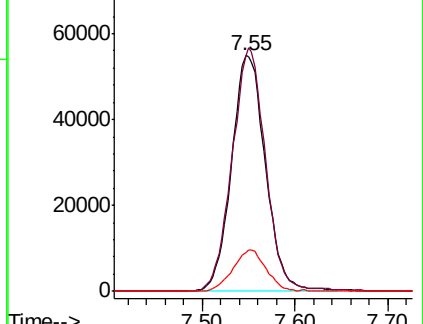
192 17.1 13.9 20.9



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: 4.702 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063514.D

Acq: 22 Sep 2020 3:42

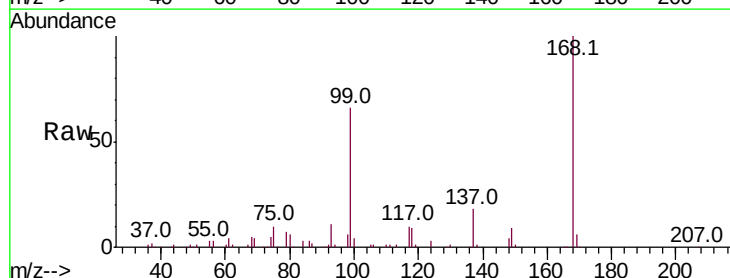
Tgt Ion: 75 Resp: 21305

Ion Ratio Lower Upper

75 100

110 10.2 16.5 49.5#

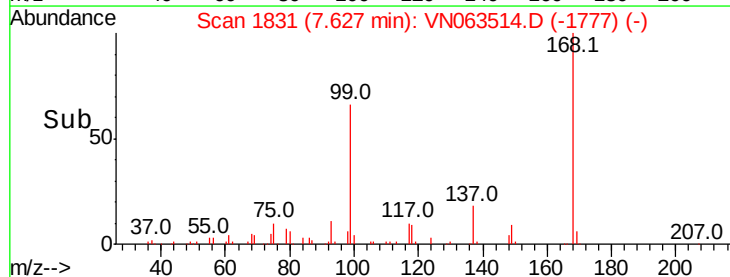
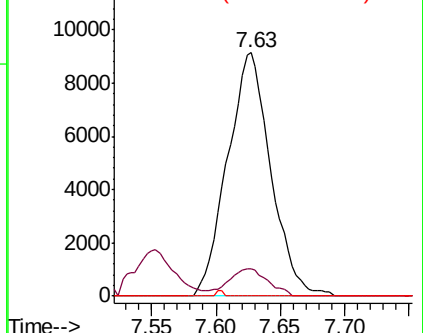
77 0.0 24.6 36.8#

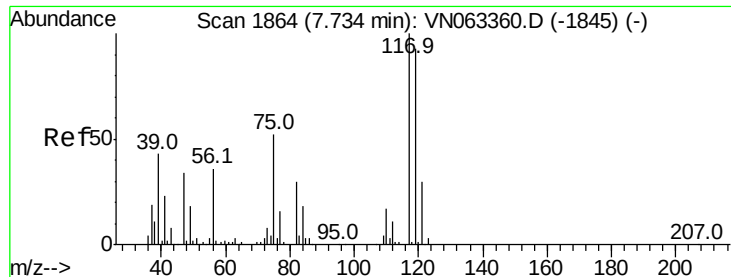


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

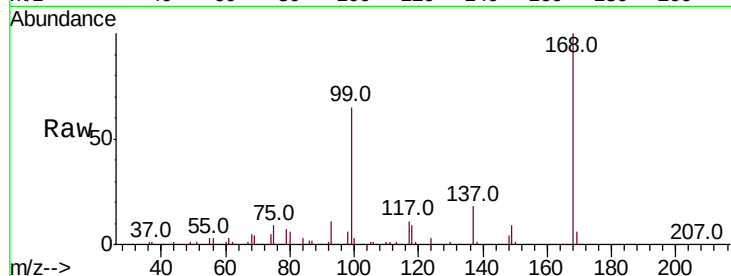




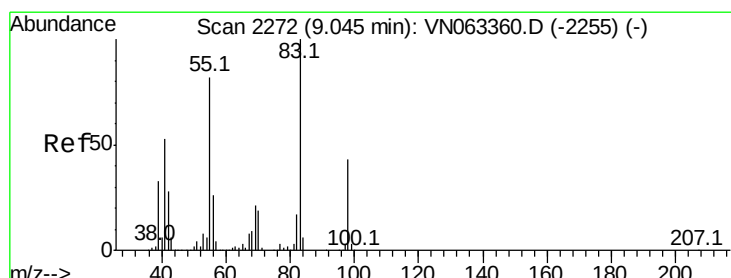
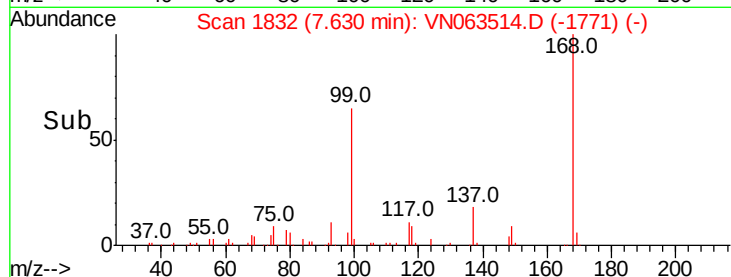
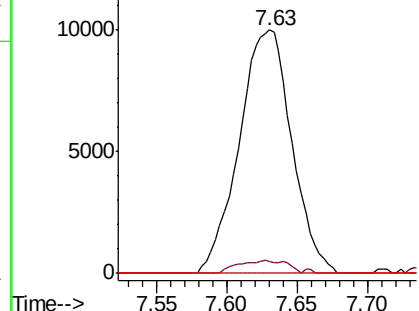
#38
Carbon Tetrachloride
Concen: 5.623 ug/l
RT: 7.63 min Scan# 1832
Delta R.T. -0.10 min
Lab File: VN063514.D
Acq: 22 Sep 2020 3:42

Instrument :
MSVOA_N
ClientSampleId :
RE134D2-20200915

Tot Ion:117 Resp: 26009
Ion Ratio Lower Upper
117 100
119 5.1 74.5 111.7#
121 0.0 24.1 36.1#

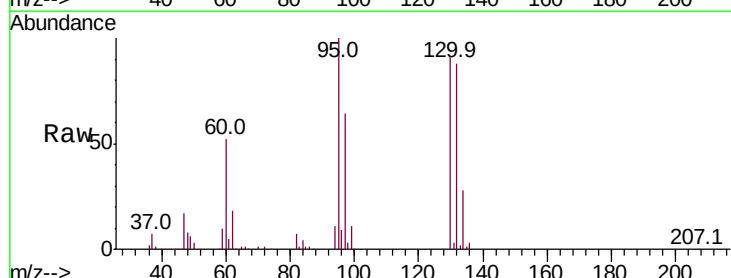


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

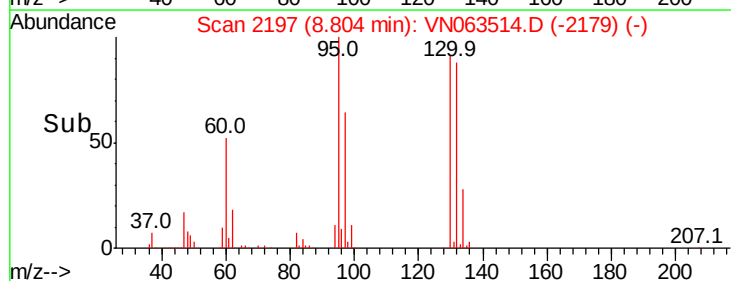
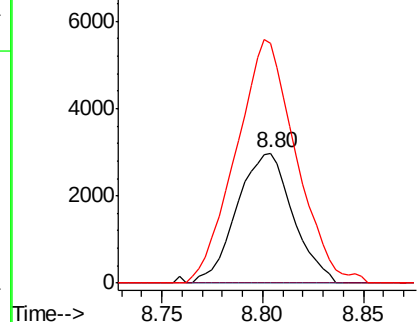


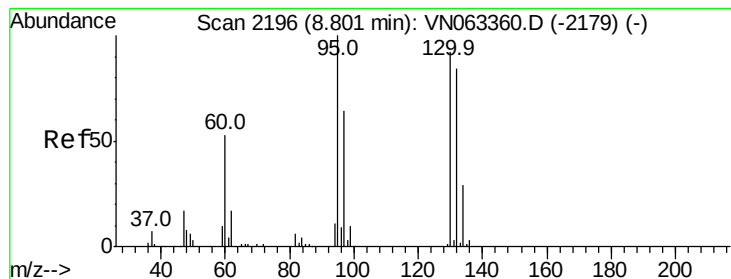
#39
Methylcyclohexane
Concen: 1.171 ug/l
RT: 8.80 min Scan# 2197
Delta R.T. -0.24 min
Lab File: VN063514.D
Acq: 22 Sep 2020 3:42

Tgt Ion: 83 Resp: 5760
Ion Ratio Lower Upper
83 100
55 0.0 65.5 98.3#
98 179.2 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: 129.696 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN063514.D

Acq: 22 Sep 2020 3:42

Instrument :

MSVOA_N

ClientSampleId :

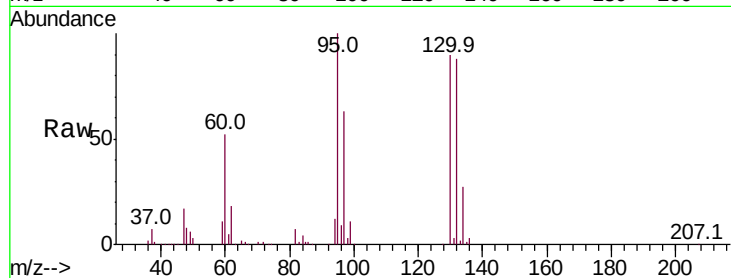
RE134D2-20200915

Tot Ion:130 Resp: 406899

Ion Ratio Lower Upper

130 100

95 110.7 0.0 217.4



Abundance Ion 129.80 (129.50 to 130.50): VN063360.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN063360.D (-2179) (-)

250000

200000

150000

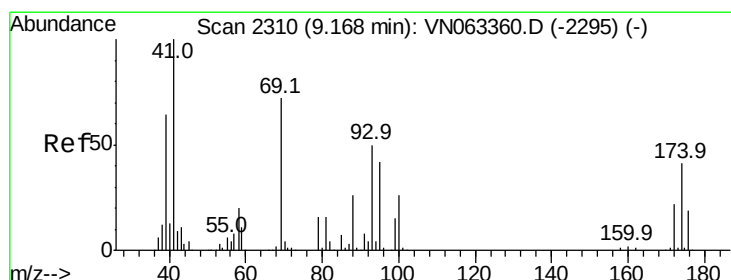
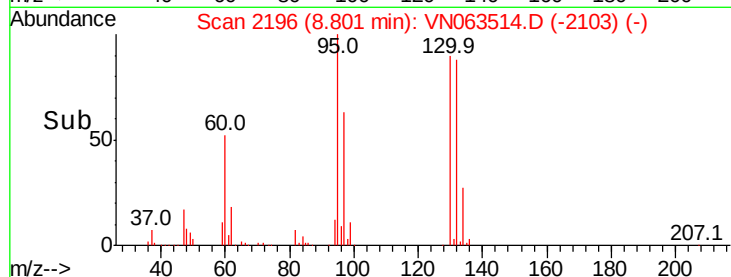
100000

50000

0

8.70 8.80 8.90

Time-->



#49

1,4-Dioxane

Concen: 41.504 ug/l

RT: 9.17 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN063514.D

Acq: 22 Sep 2020 3:42

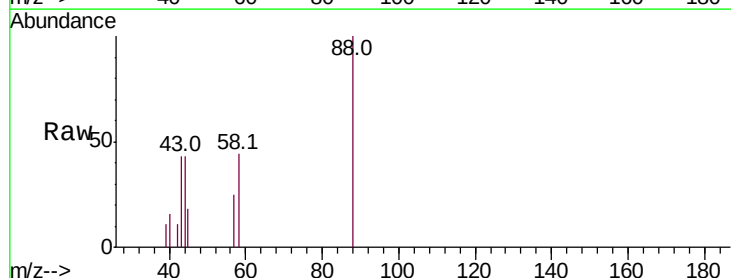
Tgt Ion: 88 Resp: 2327

Ion Ratio Lower Upper

88 100

43 25.7 32.6 49.0#

58 62.7 60.0 90.0



Abundance Ion 88.00 (87.70 to 88.70): VN063360.D (-2295) (-)

Ion 43.00 (42.70 to 43.70): VN063360.D (-2295) (-)

Ion 58.00 (57.70 to 58.70): VN063360.D (-2295) (-)

1500

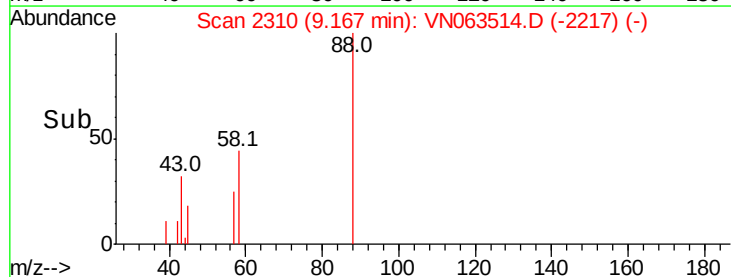
1000

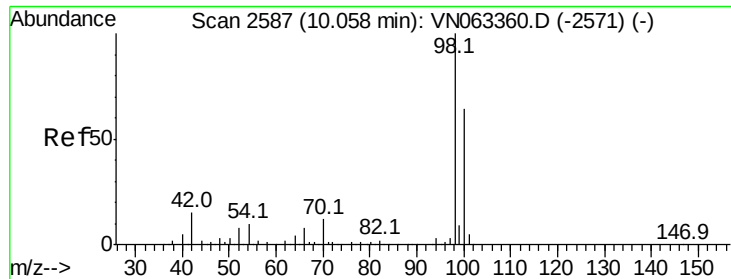
500

0

9.15 9.20

Time-->





#50

Toluene-d8

Concen: 49.145 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063514.D

Acq: 22 Sep 2020 3:42

Instrument :

MSVOA_N

ClientSampleId :

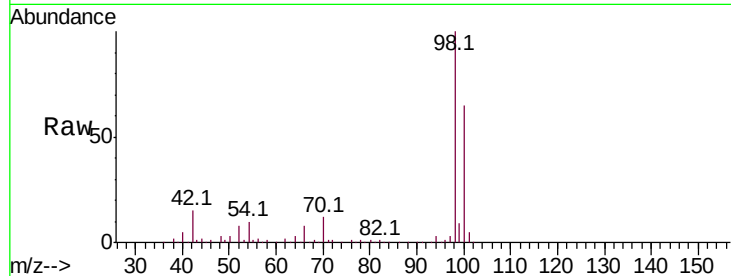
RE134D2-20200915

Tot Ion: 98 Resp: 544110

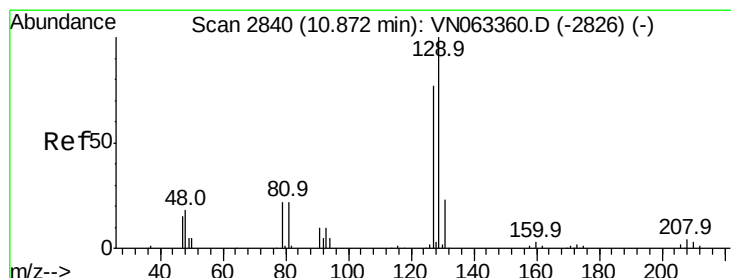
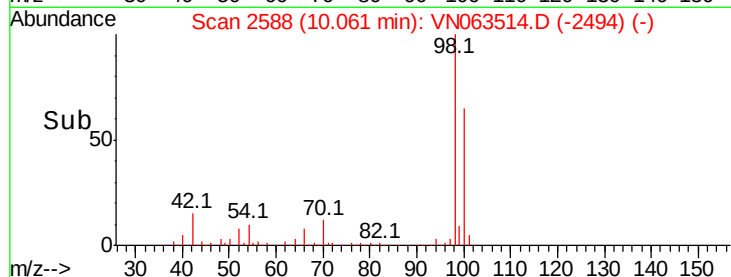
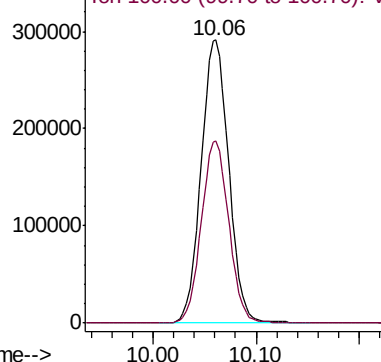
Ion Ratio Lower Upper

98 100

100 64.0 50.7 76.1



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



#60

Dibromochloromethane

Concen: 12.600 ug/l

RT: 10.60 min Scan# 2756

Delta R.T. -0.27 min

Lab File: VN063514.D

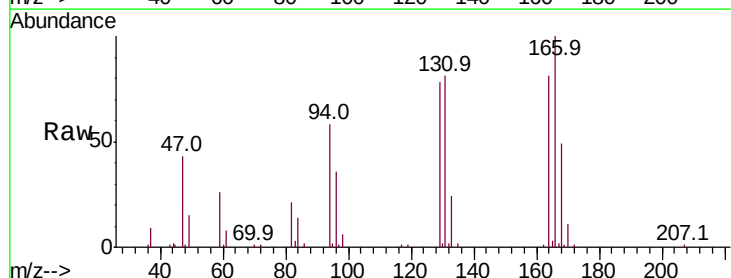
Acq: 22 Sep 2020 3:42

Tgt Ion: 129 Resp: 43972

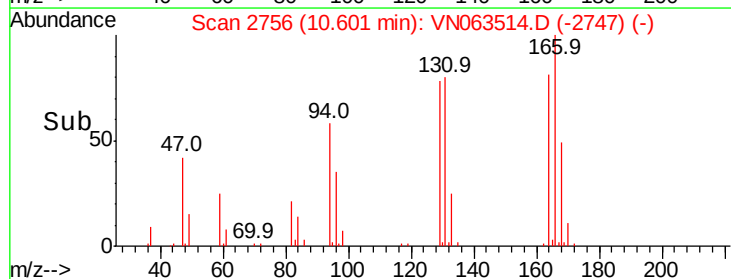
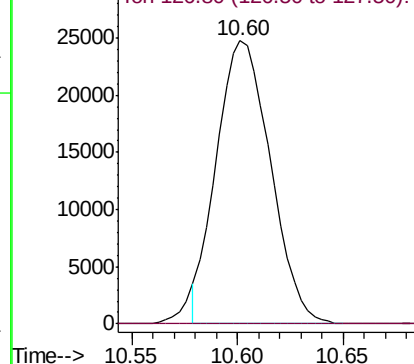
Ion Ratio Lower Upper

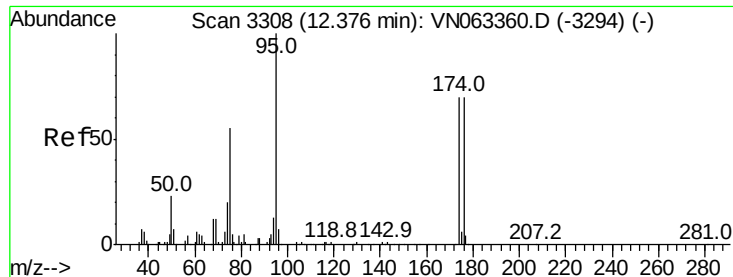
129 100

127 0.0 39.1 117.3#



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

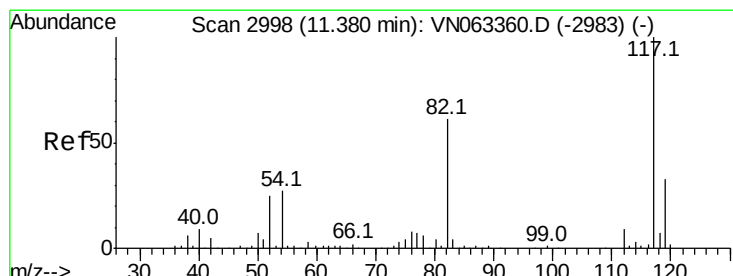
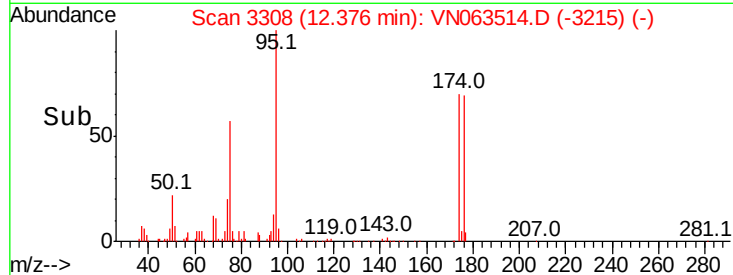
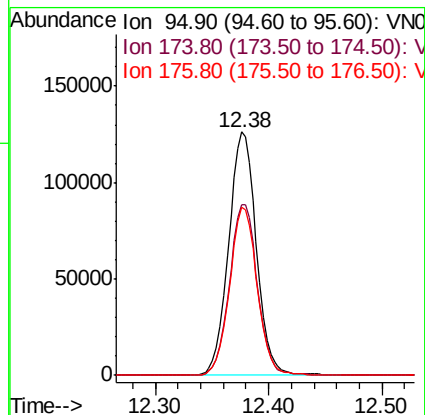
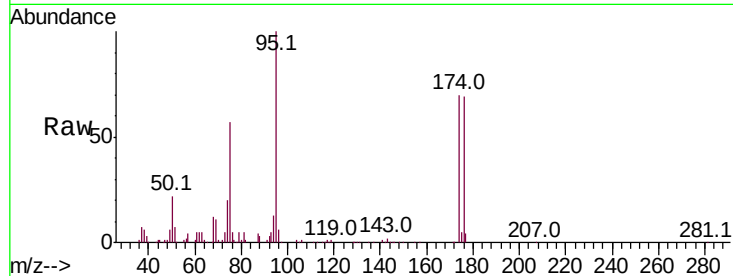




#62
4-Bromofluorobenzene
Concen: 53.056 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063514.D
Acq: 22 Sep 2020 3:42

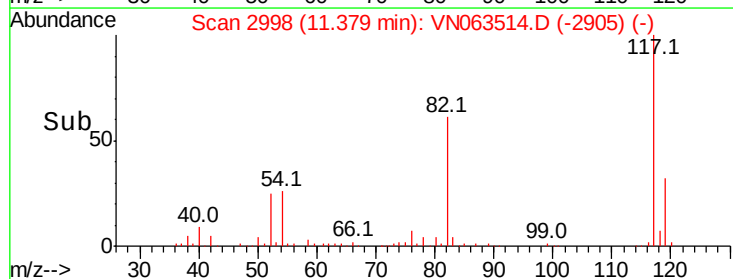
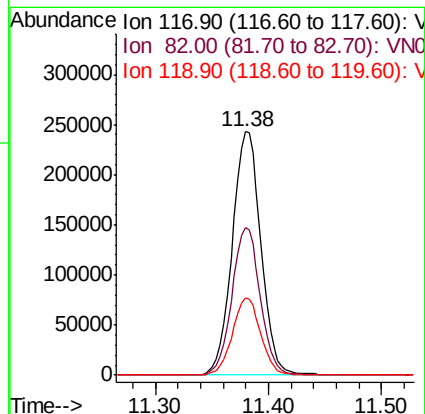
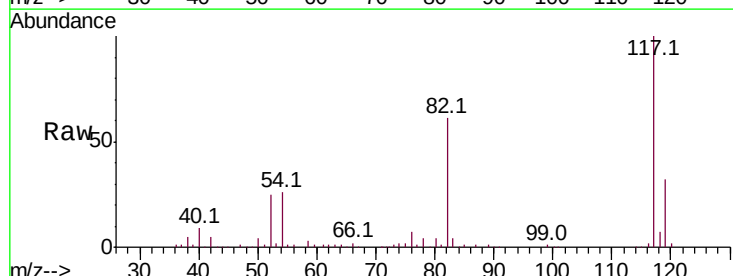
Instrument :
MSVOA_N
ClientSampleId :
RE134D2-20200915

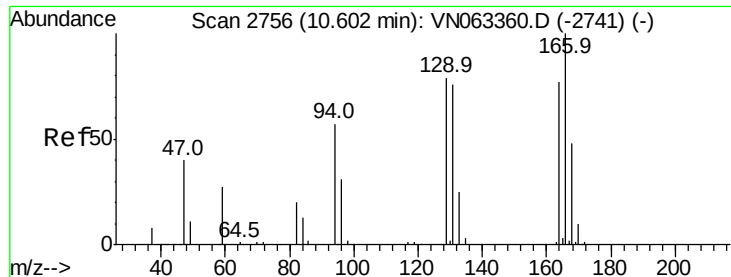
Tot Ion	Ratio	Lower	Upper
95	100		
174	71.0	0.0	140.8
176	68.6	0.0	137.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063514.D
Acq: 22 Sep 2020 3:42

Tgt Ion	Ratio	Lower	Upper
117	100		
82	60.8	49.2	73.8
119	31.9	26.2	39.4





#64

Tetrachloroethene

Concen: 15.472 ug/l

RT: 10.60 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VN063514.D

Acq: 22 Sep 2020 3:42

Instrument :

MSVOA_N

ClientSampleId :

RE134D2-20200915

Tot Ion:164 Resp: 45122

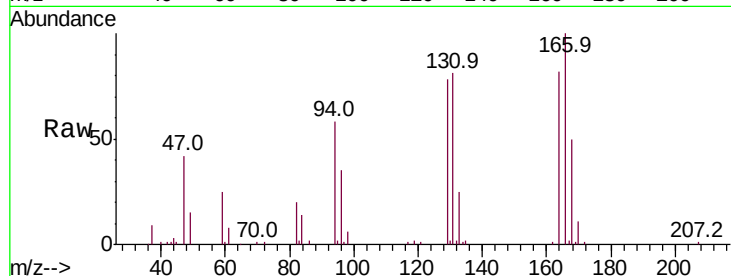
Ion Ratio Lower Upper

164 100

166 121.5 103.4 155.0

129 94.5 81.8 122.6

131 97.9 78.2 117.4



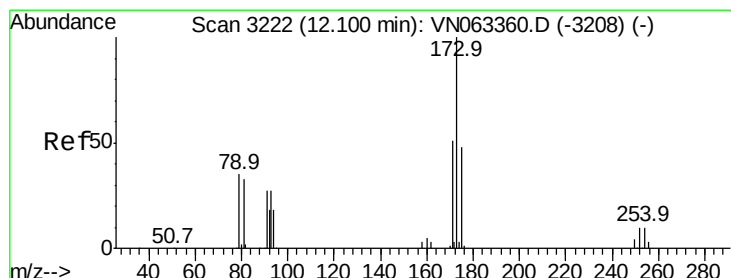
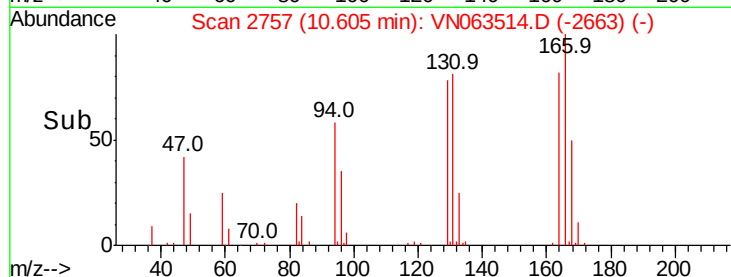
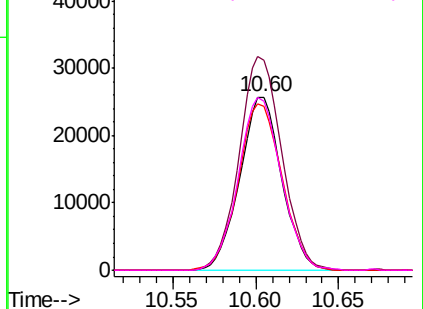
Abundance

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: 0.207 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.28 min

Lab File: VN063514.D

Acq: 22 Sep 2020 3:42

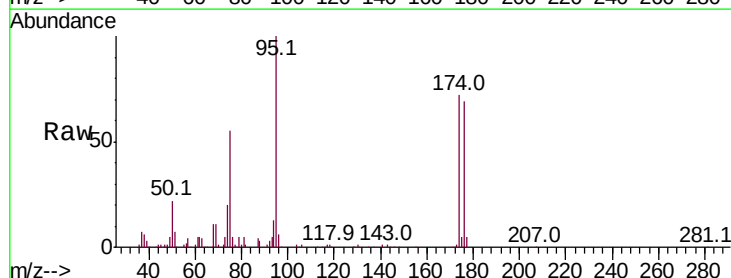
Tgt Ion:173 Resp: 515

Ion Ratio Lower Upper

173 100

175 1851.1 24.0 72.0#

254 0.0 0.0 0.0

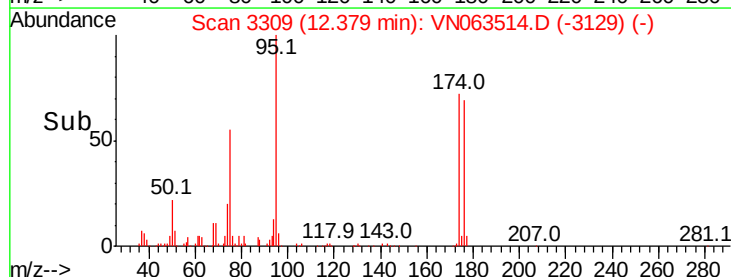
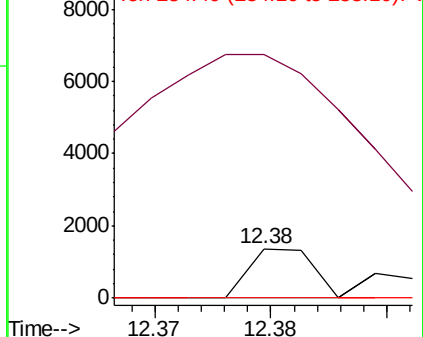


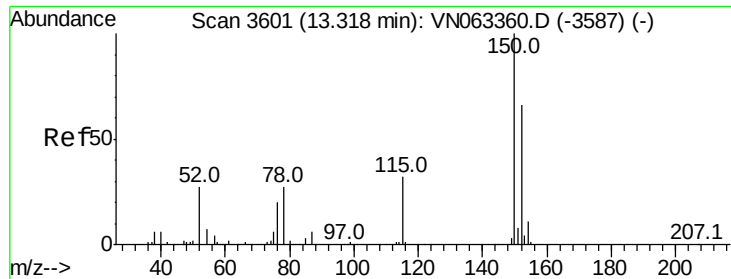
Abundance

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: VN063514.D

Acq: 22 Sep 2020 3:42

Instrument :

MSVOA_N

ClientSampleId :

RE134D2-20200915

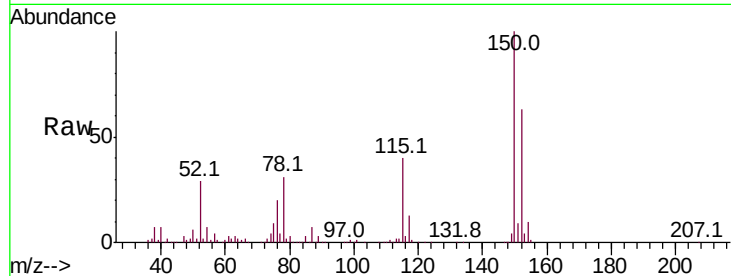
Tot Ion:152 Resp: 180142

Ion Ratio Lower Upper

152 100

115 63.8 32.2 96.6

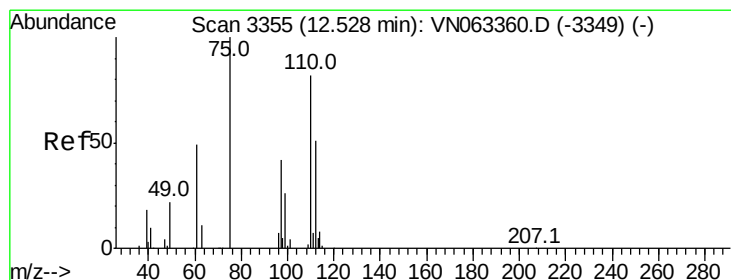
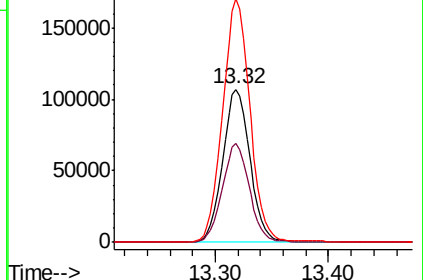
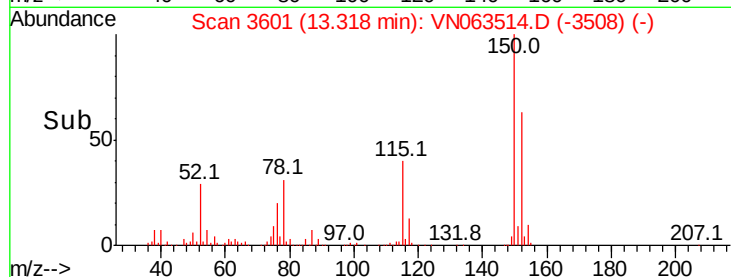
150 159.2 0.0 343.4



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: 27.065 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063514.D

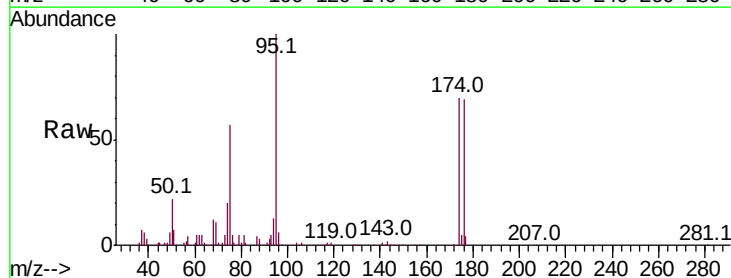
Acq: 22 Sep 2020 3:42

Tgt Ion: 75 Resp: 120675

Ion Ratio Lower Upper

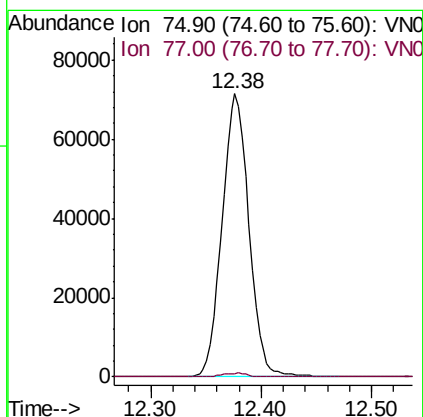
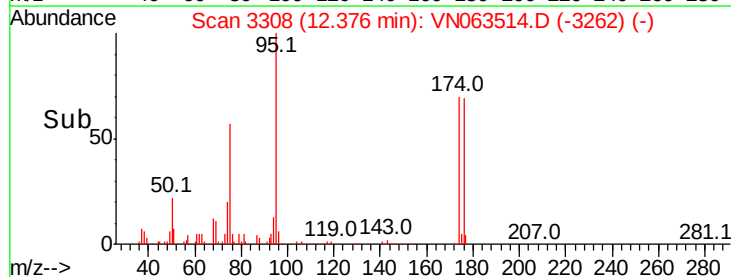
75 100

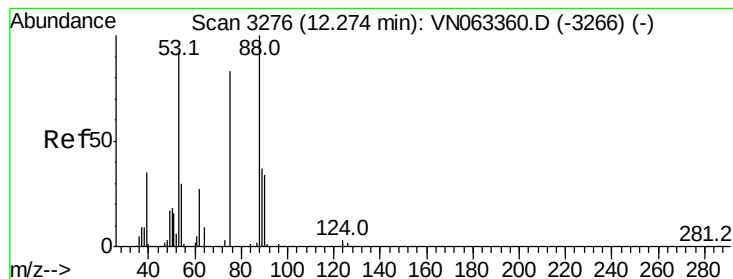
77 1.2 0.0 0.0#



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: 74.201 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063514.D

Acq: 22 Sep 2020 3:42

Instrument :

MSVOA_N

ClientSampleId :

RE134D2-20200915

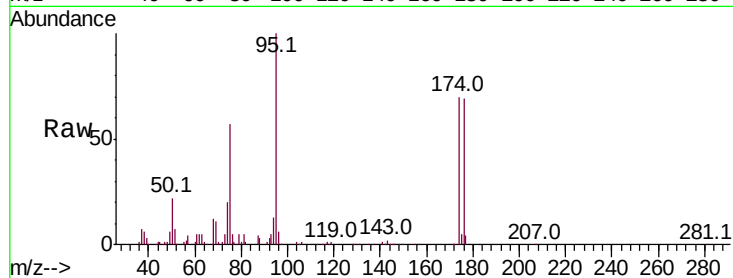
Tot Ion: 75 Resp: 120675

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

