

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092220\
 Data File : VN063548.D
 Acq On : 22 Sep 2020 21:18
 Operator : JC/MD
 Sample : L4082-15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D1-20200916

Quant Time: Sep 23 04:03:31 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	217070	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	401677	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	408517	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	169346	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	181083	49.01	ug/l	0.00
Spiked Amount			Recovery	=	98.02%	
35) Dibromofluoromethane	7.55	113	130663	46.99	ug/l	0.00
Spiked Amount			Recovery	=	93.98%	
50) Toluene-d8	10.06	98	514483	49.20	ug/l	0.00
Spiked Amount			Recovery	=	98.40%	
62) 4-Bromofluorobenzene	12.38	95	206472	53.87	ug/l	0.00
Spiked Amount			Recovery	=	107.74%	

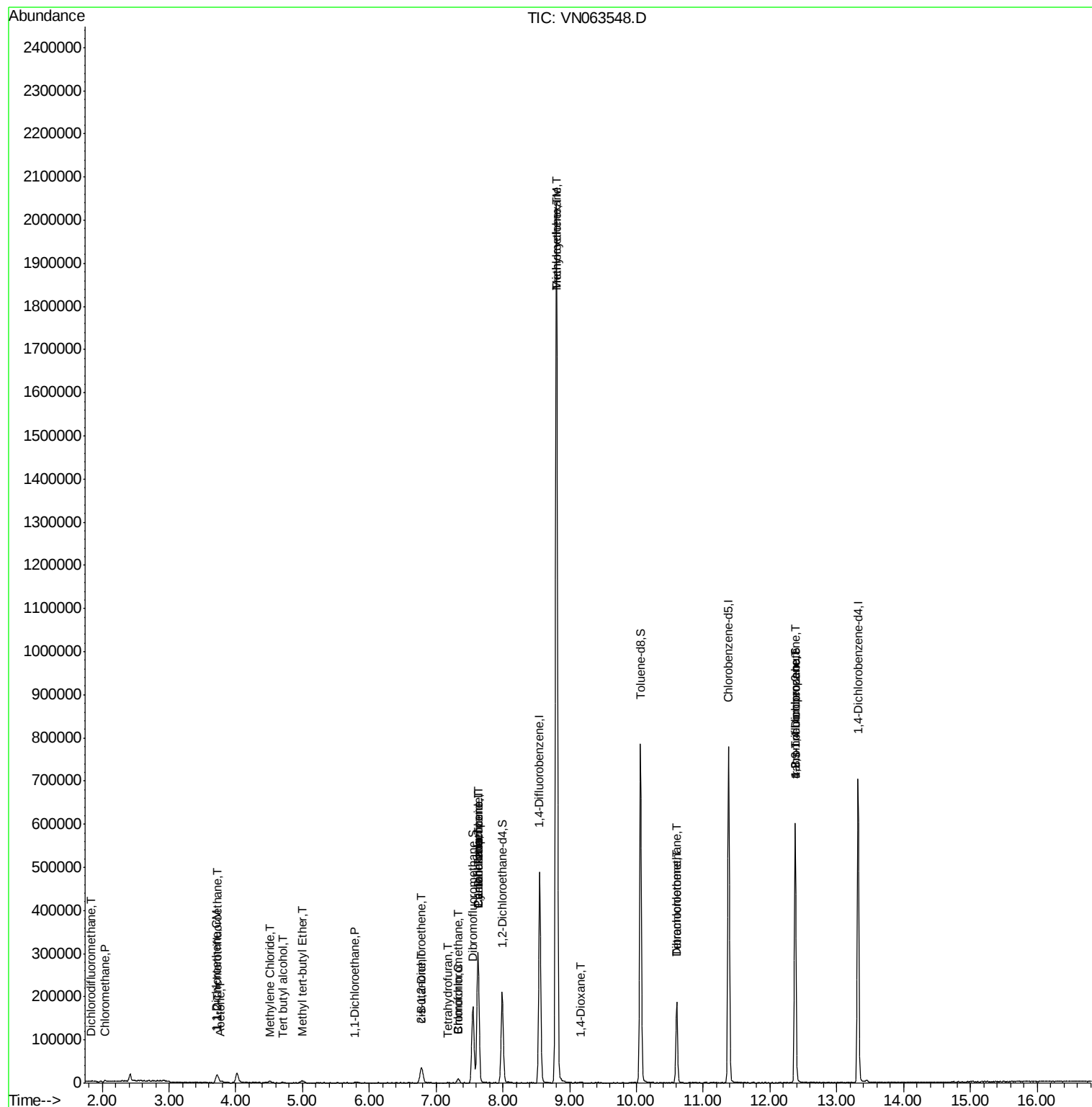
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	657	0.267	ug/l	97
3) Chloromethane	2.04	50	2113	0.649	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.73	101	10688	4.419	ug/l #	76
11) Tert butyl alcohol	4.71	59	241	0.471	ug/l #	72
12) 1,1-Dichloroethene	3.70	96	2643	1.079	ug/l	97
16) Acetone	3.78	43	4437	3.736	ug/l	92
19) Methyl tert-butyl Ether	4.99	73	4602	0.504	ug/l #	83
20) Methylene Chloride	4.50	84	1038	0.345	ug/l #	92
24) 1,1-Dichloroethane	5.80	63	1911	0.354	ug/l #	84
25) 2-Butanone	6.79	43	555	0.304	ug/l #	51
27) cis-1,2-Dichloroethene	6.78	96	14285	4.650	ug/l	89
28) Bromochloromethane	7.33	49	524	0.210	ug/l #	20
29) Tetrahydrofuran	7.17	42	261	0.209	ug/l #	36
30) Chloroform	7.33	83	8739	1.614	ug/l	91
31) Cyclohexane	7.63	56	6183	1.212	ug/l #	2
36) 1,1-Dichloropropene	7.62	75	21139	4.940	ug/l #	50
38) Carbon Tetrachloride	7.63	117	23908	5.473	ug/l #	19
39) Methylcyclohexane	8.80	83	10372	2.233	ug/l #	1
44) Trichloroethene	8.80	130	679391	229.300	ug/l	99
49) 1,4-Dioxane	9.17	88	1365	25.779	ug/l #	36
60) Dibromochloromethane	10.60	129	38489	11.678	ug/l #	10
64) Tetrachloroethene	10.60	164	38886	13.979	ug/l	96
76) 1,2,3-Trichloropropane	12.38	75	112186	26.765	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	112186	73.379	ug/l #	7

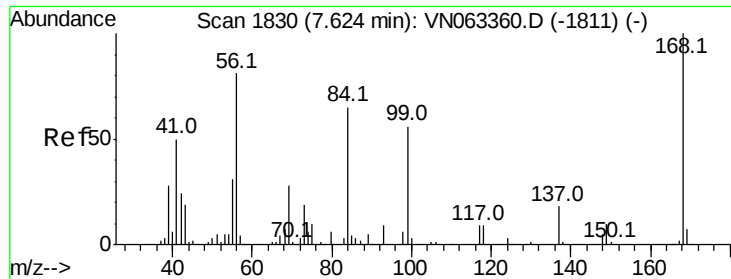
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063548.D

Acq: 22 Sep 2020 21:18

Instrument :

MSVOA_N

ClientSampleId :

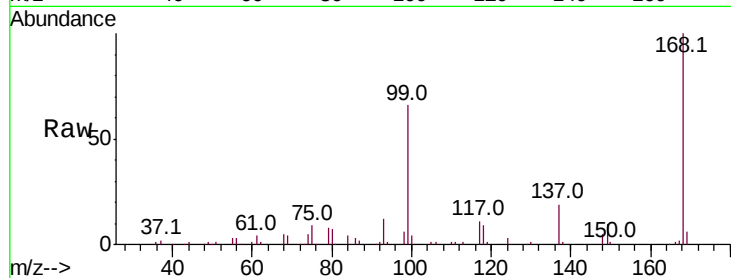
RE131D1-20200916

Tot Ion:168 Resp: 217070

Ion Ratio Lower Upper

168 100

99 65.7 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

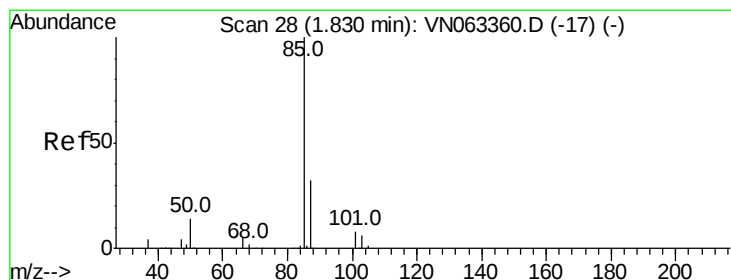
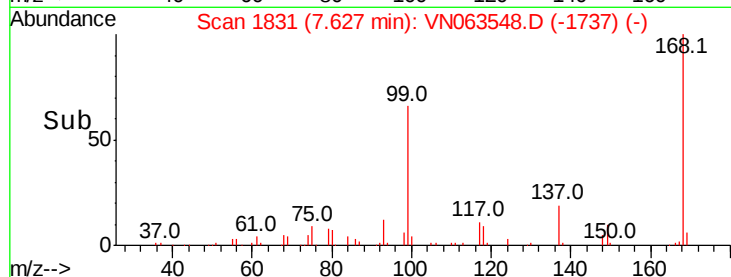
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#2

Dichlorodifluoromethane

Concen: 0.267 ug/l

RT: 1.83 min Scan# 29

Delta R.T. 0.00 min

Lab File: VN063548.D

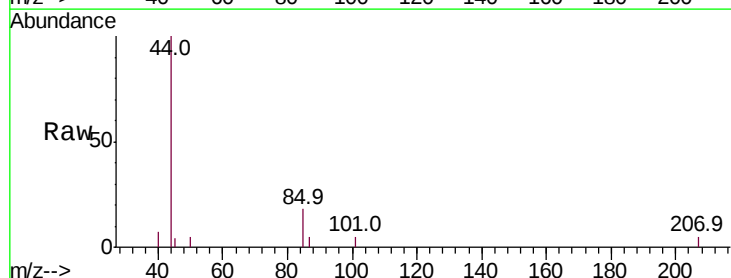
Acq: 22 Sep 2020 21:18

Tgt Ion: 85 Resp: 657

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

1.83

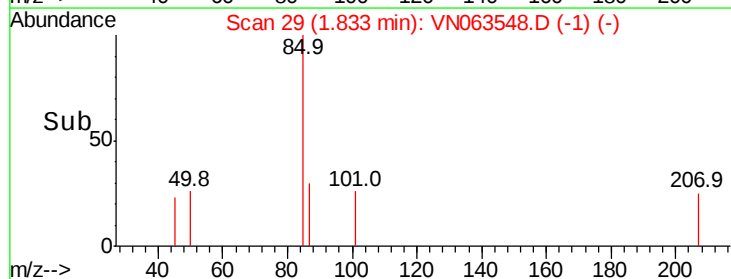
600

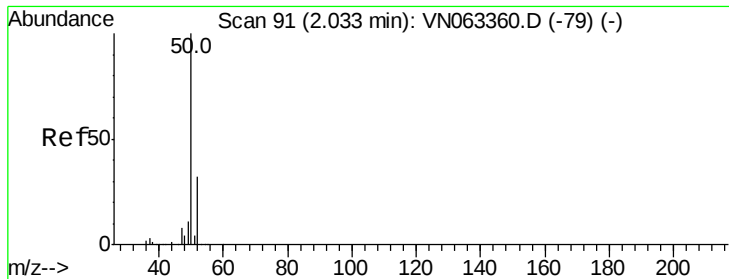
400

200

0

Time--> 1.80 1.82 1.84 1.86

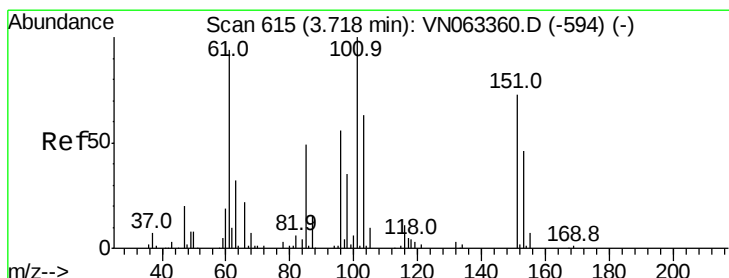
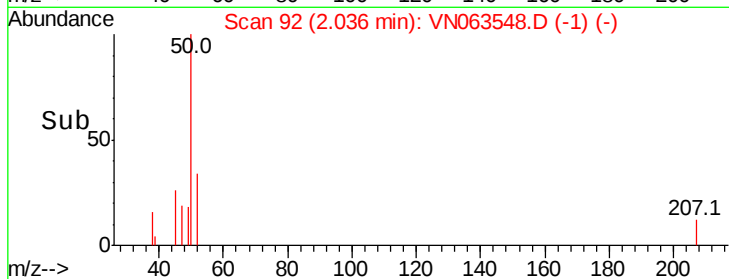
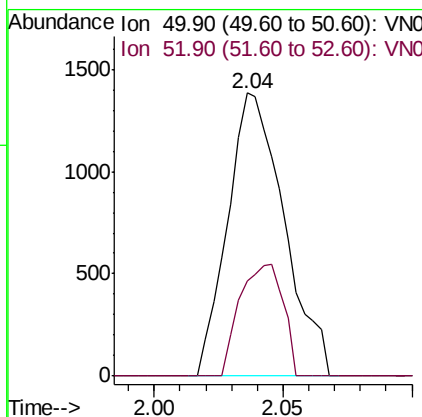
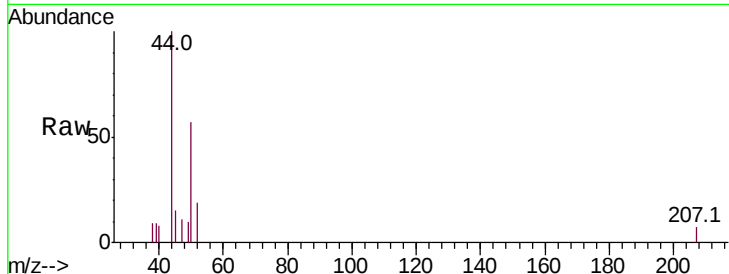




#3
Chloromethane
Concen: 0.649 ug/l
RT: 2.04 min Scan# 92
Delta R.T. 0.00 min
Lab File: VN063548.D
Acq: 22 Sep 2020 21:18

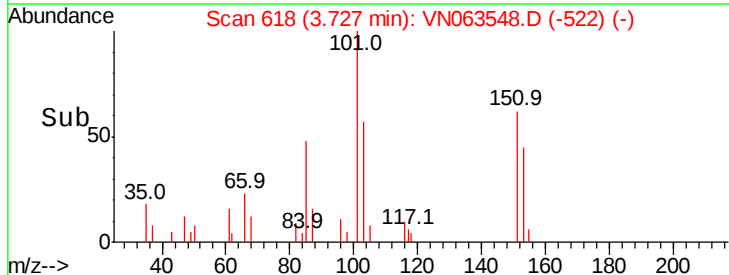
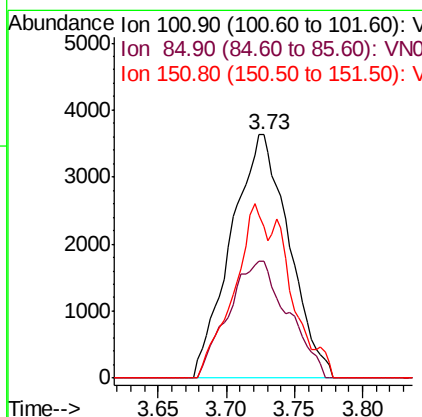
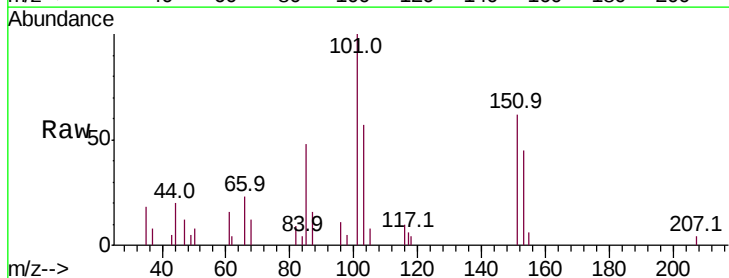
Instrument :
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RE131D1-20200916

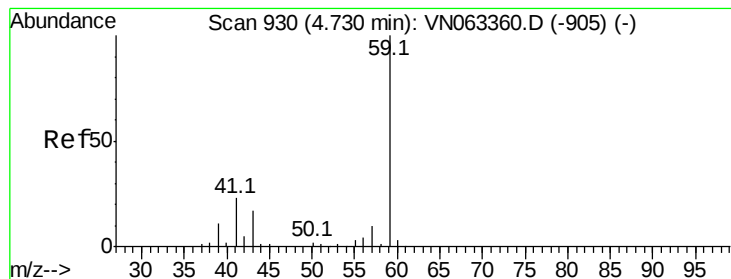
Tot Ion: 50 Resp: 2113
Ion Ratio Lower Upper
50 100
52 33.6 25.9 38.9



#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.419 ug/l
RT: 3.73 min Scan# 618
Delta R.T. 0.01 min
Lab File: VN063548.D
Acq: 22 Sep 2020 21:18

Tgt Ion: 101 Resp: 10688
Ion Ratio Lower Upper
101 100
85 49.2 37.7 56.5
151 40.5 57.7 86.5#



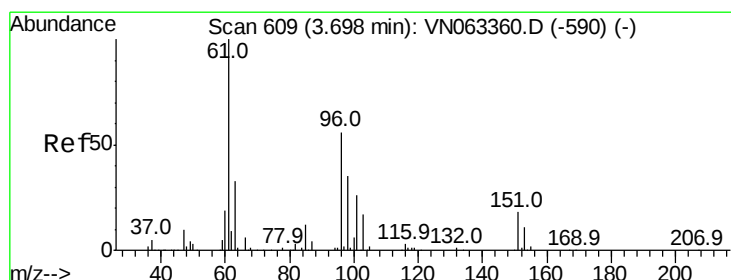
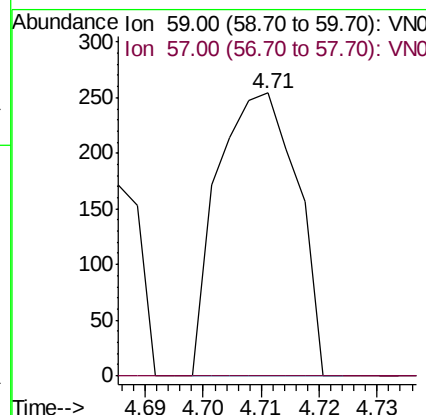
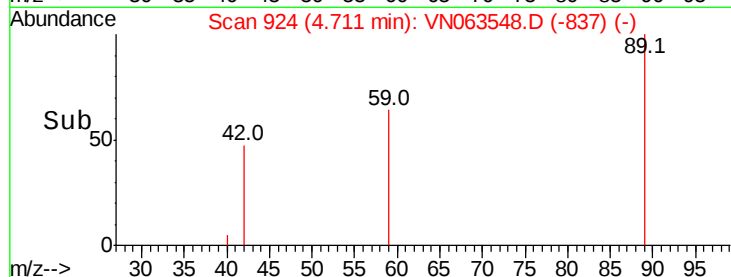
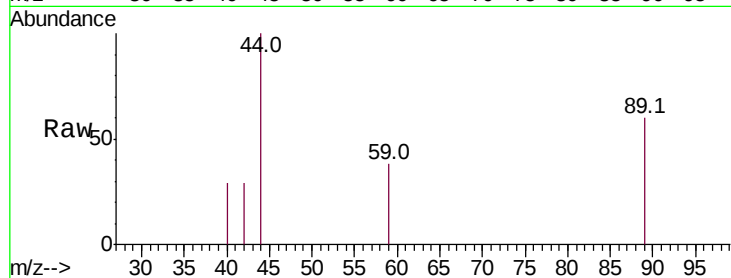


#11

Tert butvl alcohol
 Concen: 0.471 ug/l
 RT: 4.71 min Scan# 924
 Delta R.T. -0.02 min
 Lab File: VN063548.D
 Acq: 22 Sep 2020 21:18

Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D1-20200916

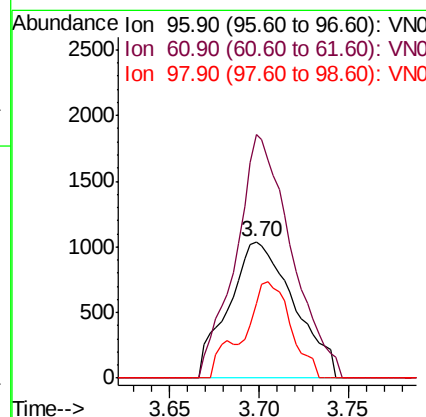
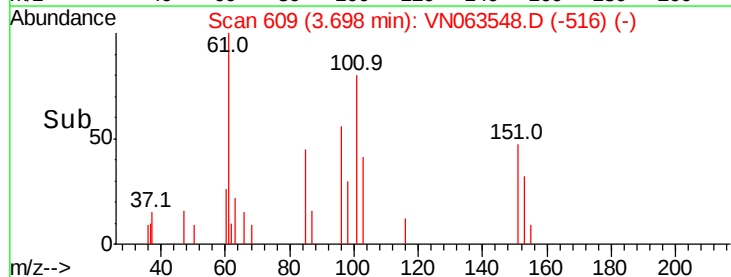
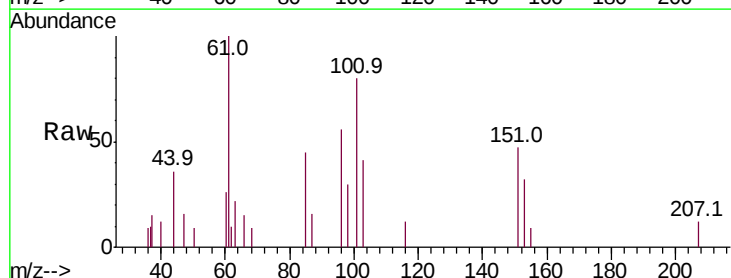
Tot Ion: 59 Resp: 241
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

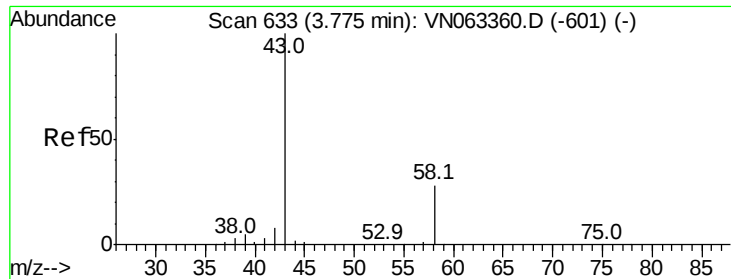


#12

1,1-Dichloroethene
 Concen: 1.079 ug/l
 RT: 3.70 min Scan# 609
 Delta R.T. -0.00 min
 Lab File: VN063548.D
 Acq: 22 Sep 2020 21:18

Tgt Ion: 96 Resp: 2643
 Ion Ratio Lower Upper
 96 100
 61 178.4 143.4 215.2
 98 54.3 50.6 76.0





#16

Acetone

Concen: 3.736 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063548.D

Acq: 22 Sep 2020 21:18

Instrument :

MSVOA_N

ClientSampleId :

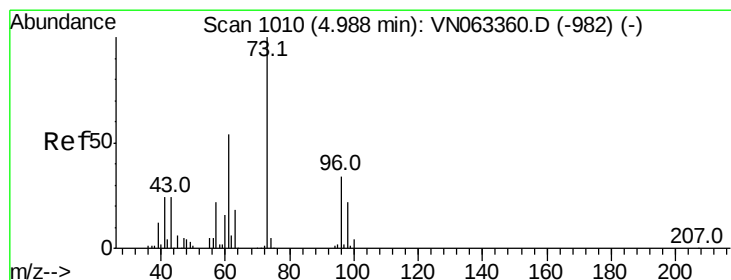
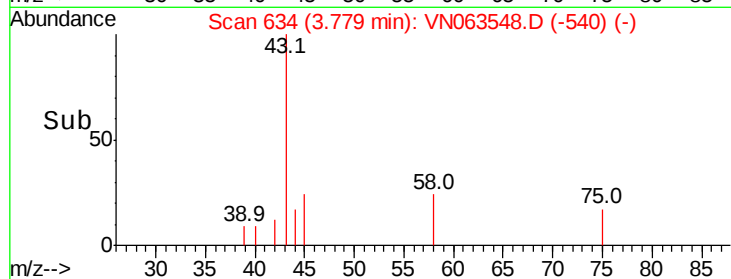
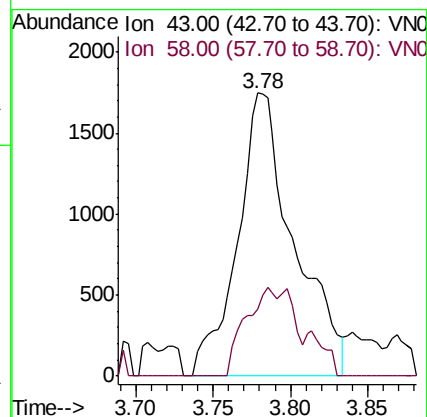
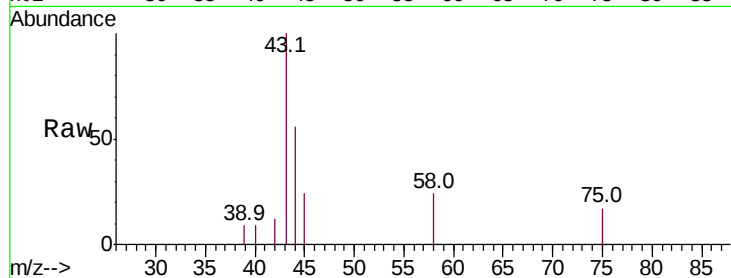
RE131D1-20200916

Tot Ion: 43 Resp: 4437

Ion Ratio Lower Upper

43 100

58 23.9 22.3 33.5



#19

Methyl tert-butyl Ether

Concen: 0.504 ug/l

RT: 4.99 min Scan# 1012

Delta R.T. 0.01 min

Lab File: VN063548.D

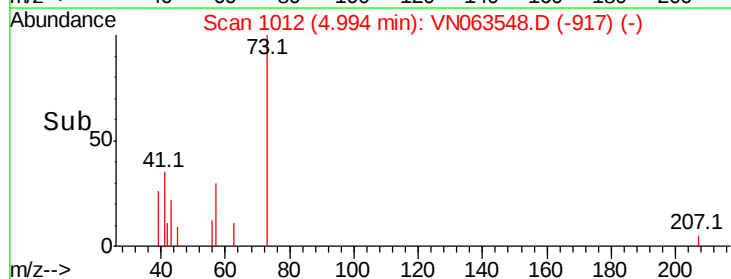
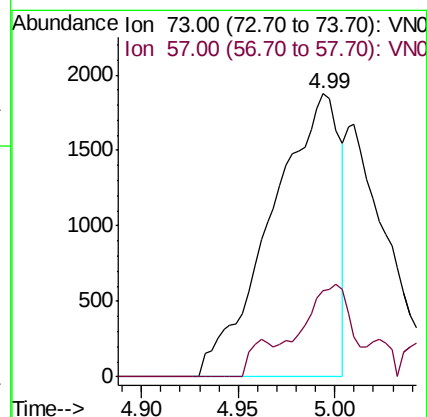
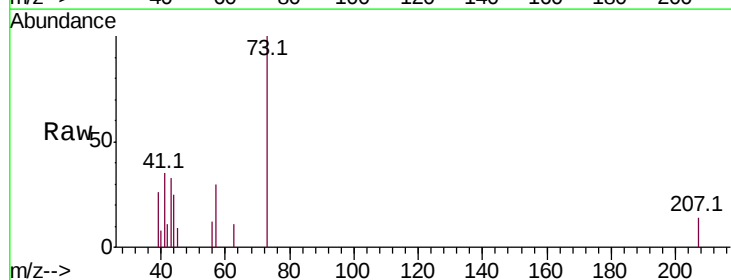
Acq: 22 Sep 2020 21:18

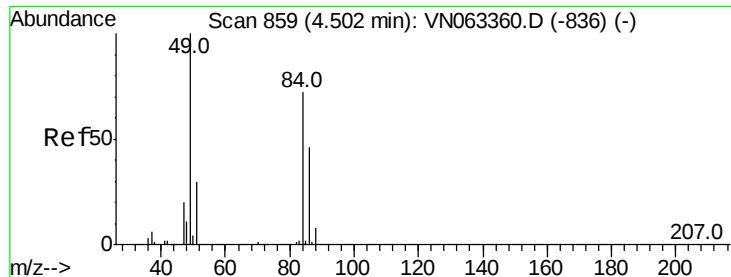
Tgt Ion: 73 Resp: 4602

Ion Ratio Lower Upper

73 100

57 30.4 17.9 26.9#

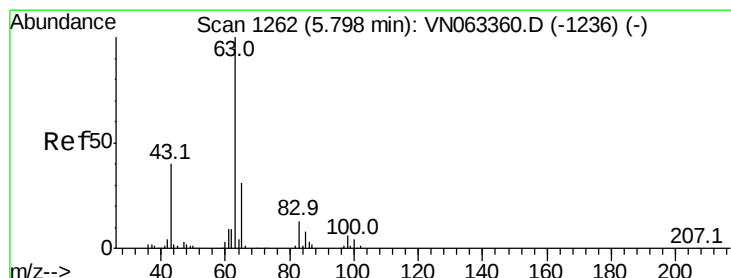
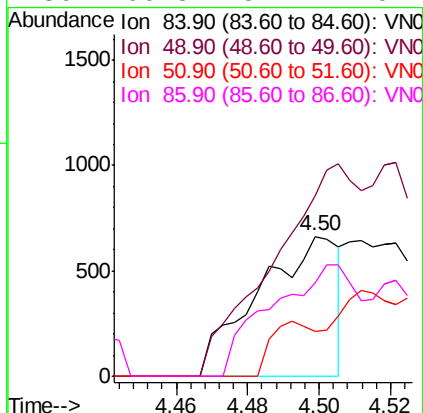
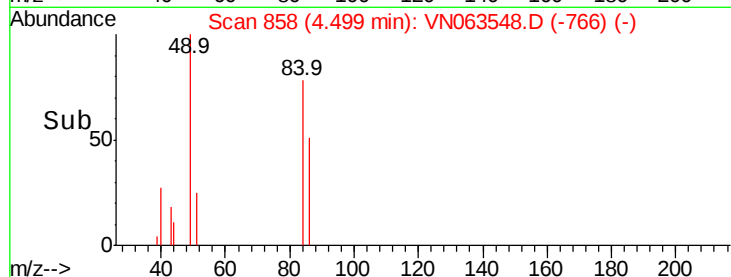
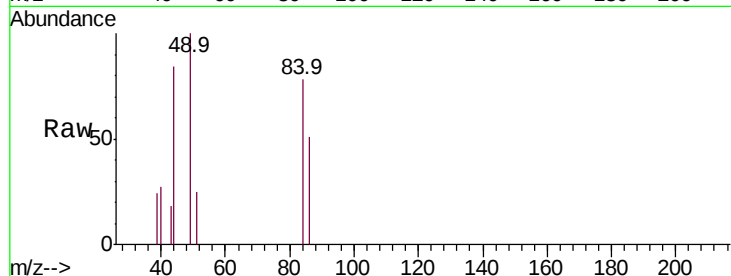




#20
Methvlene Chloride
Concen: 0.345 ug/l
RT: 4.50 min Scan# 858
Delta R.T. -0.00 min
Lab File: VN063548.D
Acq: 22 Sep 2020 21:18

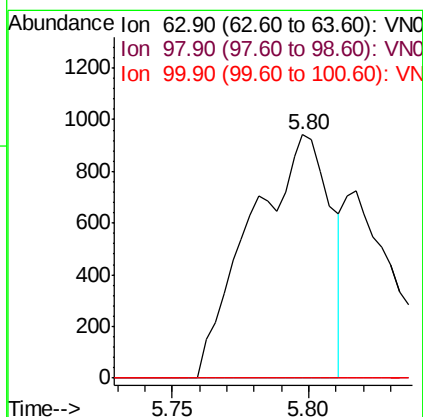
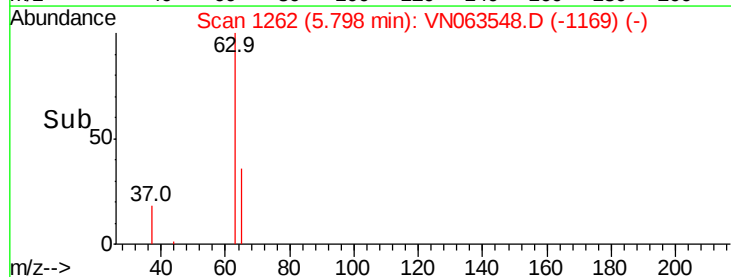
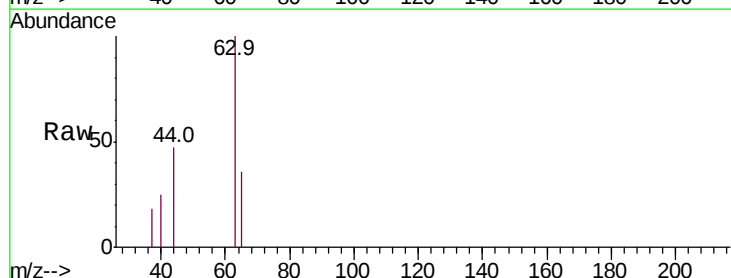
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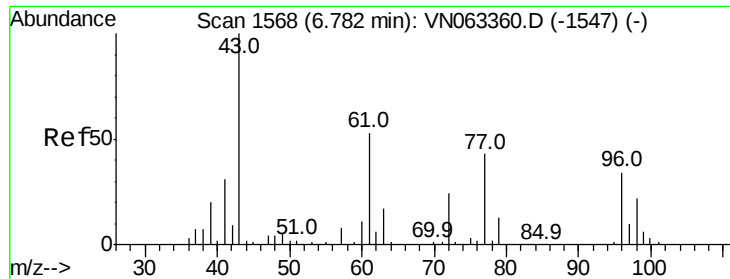
Tot Ion: 84 Resp: 1038
Ion Ratio Lower Upper
84 100
49 129.0 110.7 166.1
51 31.9 32.9 49.3#
86 66.3 51.1 76.7



#24
1,1-Dichloroethane
Concen: 0.354 ug/l
RT: 5.80 min Scan# 1262
Delta R.T. -0.00 min
Lab File: VN063548.D
Acq: 22 Sep 2020 21:18

Tgt Ion: 63 Resp: 1911
Ion Ratio Lower Upper
63 100
98 0.0 2.9 8.8#
100 0.0 2.1 6.3#

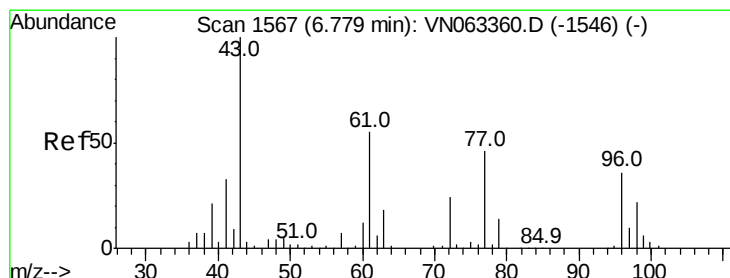
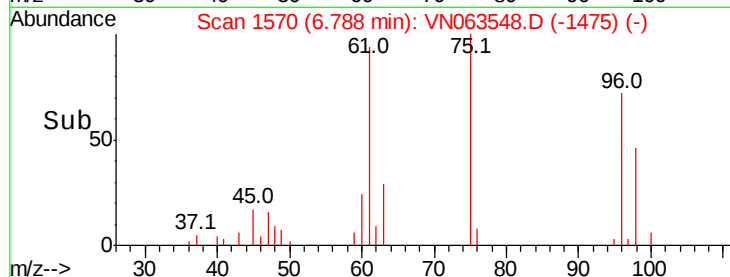
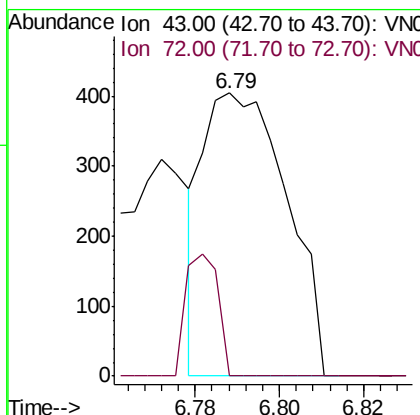
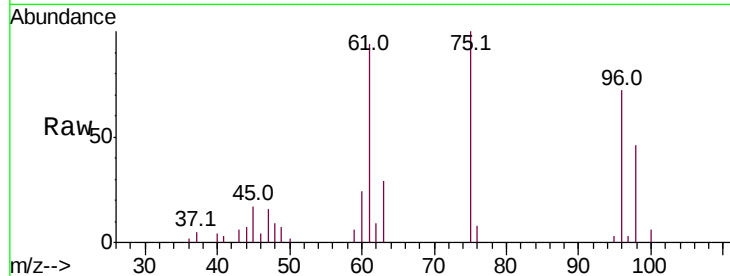




#25
2-Butanone
Concen: 0.304 ug/l
RT: 6.79 min Scan# 1570
Delta R.T. 0.01 min
Lab File: VN063548.D
Acq: 22 Sep 2020 21:18

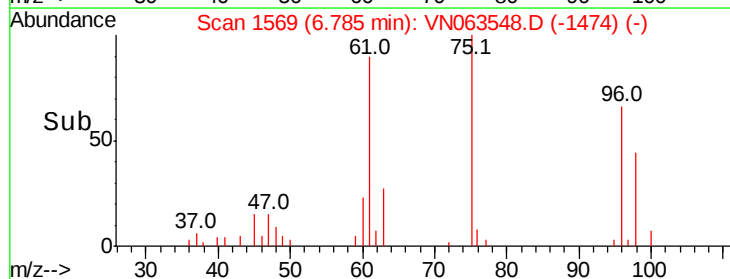
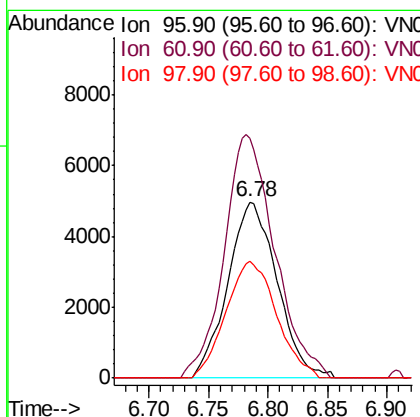
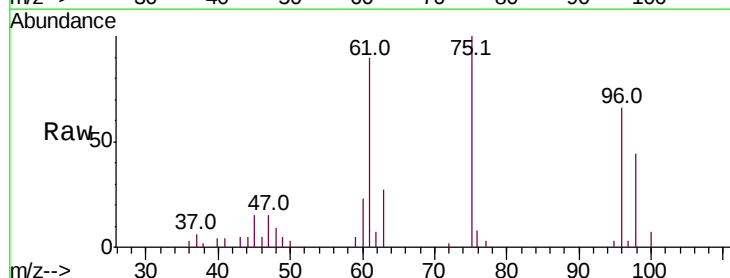
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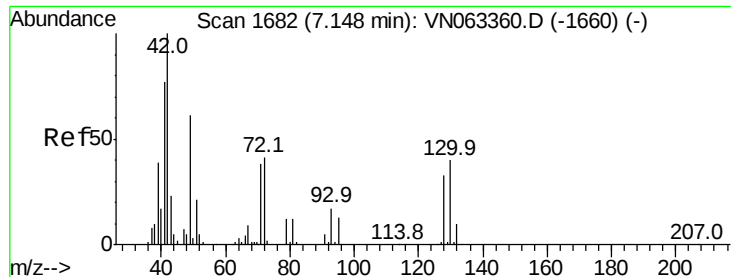
Tot Ion: 43 Resp: 555
Ion Ratio Lower Upper
43 100
72 0.0 19.2 28.8#



#27
cis-1,2-Dichloroethene
Concen: 4.650 ug/l
RT: 6.78 min Scan# 1569
Delta R.T. 0.01 min
Lab File: VN063548.D
Acq: 22 Sep 2020 21:18

Tgt Ion: 96 Resp: 14285
Ion Ratio Lower Upper
96 100
61 141.7 0.0 319.6
98 68.2 0.0 127.8





#28

Bromochloromethane

Concen: 0.210 ug/l

RT: 7.33 min Scan# 1738

Delta R.T. 0.18 min

Lab File: VN063548.D

Acq: 22 Sep 2020 21:18

Instrument :

MSVOA_N

ClientSampleId :

RE131D1-20200916

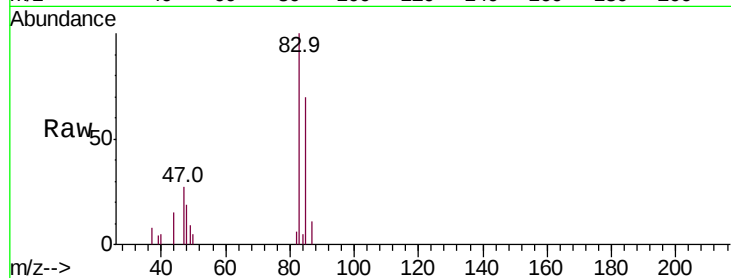
Tot Ion: 49 Resp: 524

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 0.0 52.2 78.2#



Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

7.33

300

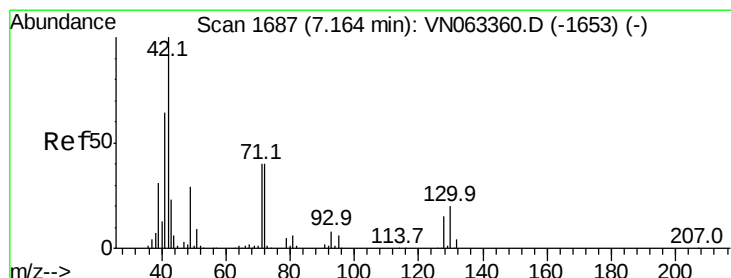
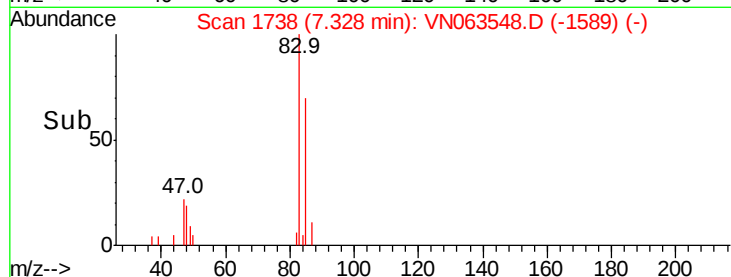
200

100

0

7.30 7.32 7.34

Time-->



#29

Tetrahydrofuran

Concen: 0.209 ug/l

RT: 7.17 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VN063548.D

Acq: 22 Sep 2020 21:18

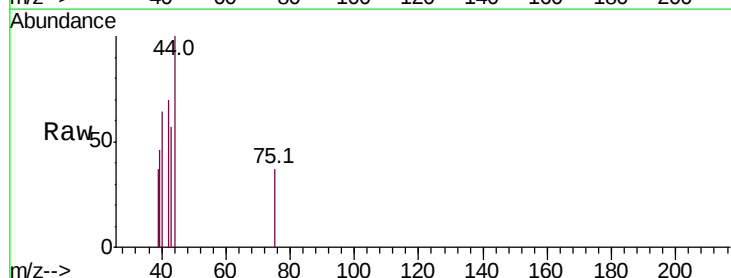
Tgt Ion: 42 Resp: 261

Ion Ratio Lower Upper

42 100

72 0.0 32.1 48.1#

71 0.0 31.2 46.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

7.17

300

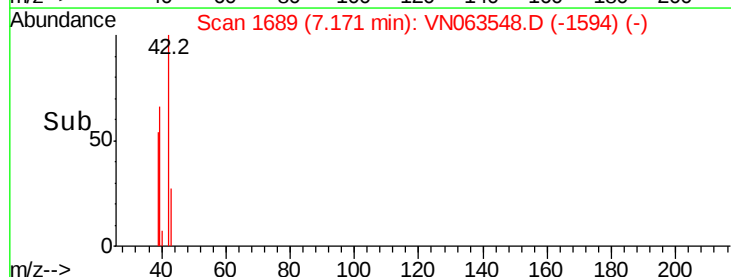
200

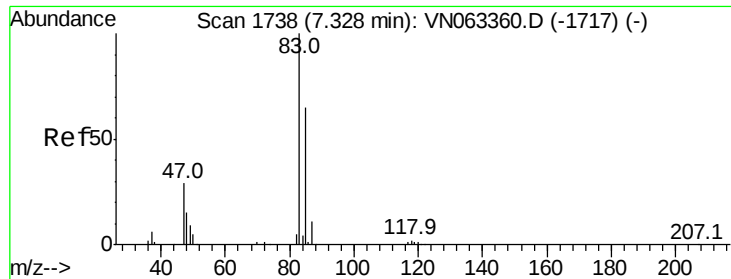
100

0

7.16 7.18

Time-->





#30

Chloroform

Concen: 1.614 ug/l

RT: 7.33 min Scan# 1739

Delta R.T. 0.00 min

Lab File: VN063548.D

Acq: 22 Sep 2020 21:18

Instrument :

MSVOA_N

ClientSampleId :

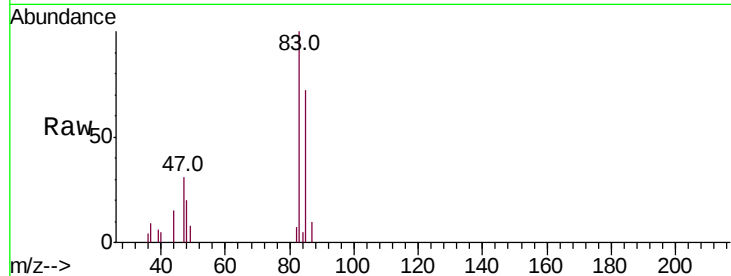
RE131D1-20200916

Tot Ion: 83 Resp: 8739

Ion Ratio Lower Upper

83 100

85 72.5 52.1 78.1



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 84.90 (84.60 to 85.60): VNO

7.33

4000

3000

2000

1000

0

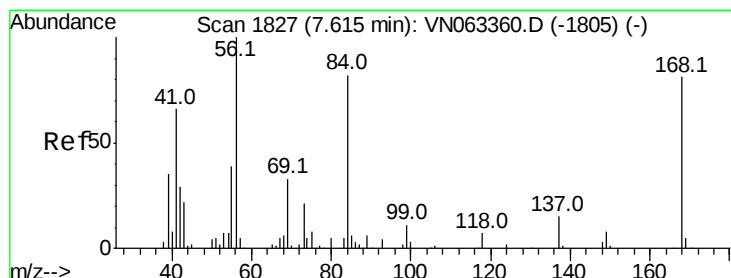
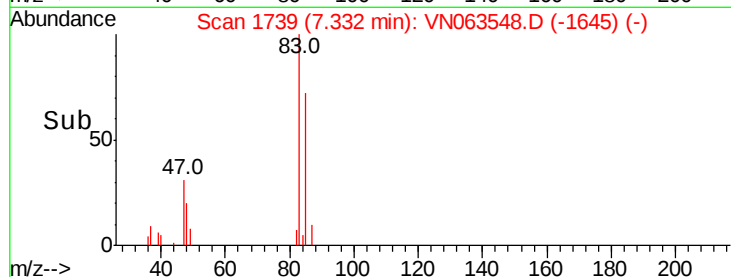
Time-->

7.25

7.30

7.35

7.40



#31

Cyclohexane

Concen: 1.212 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN063548.D

Acq: 22 Sep 2020 21:18

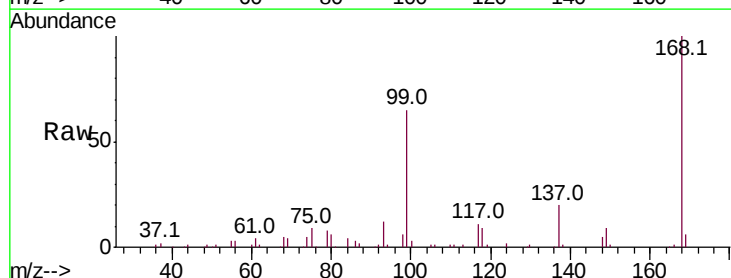
Tgt Ion: 56 Resp: 6183

Ion Ratio Lower Upper

56 100

69 142.6 26.1 39.1#

84 134.7 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

5000

4000

3000

2000

1000

0

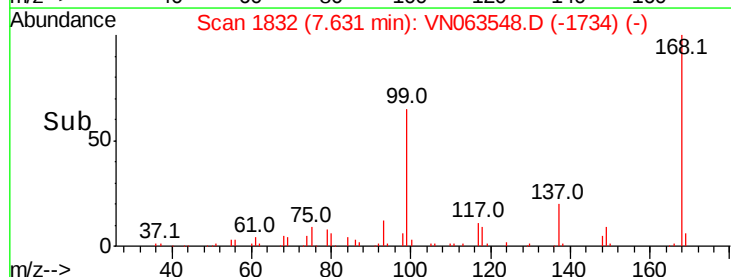
Time-->

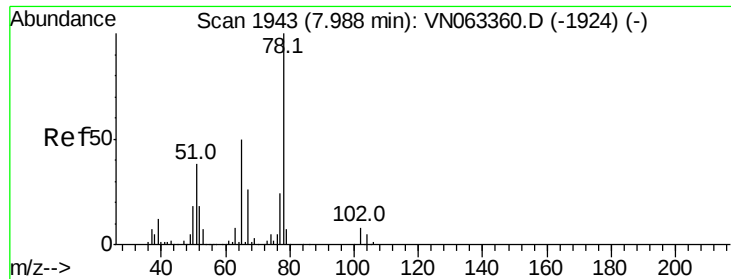
7.55

7.60

7.65

7.70





#33

1,2-Dichloroethane-d4

Concen: 49.006 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN063548.D

Acq: 22 Sep 2020 21:18

Instrument :

MSVOA_N

ClientSampleId :

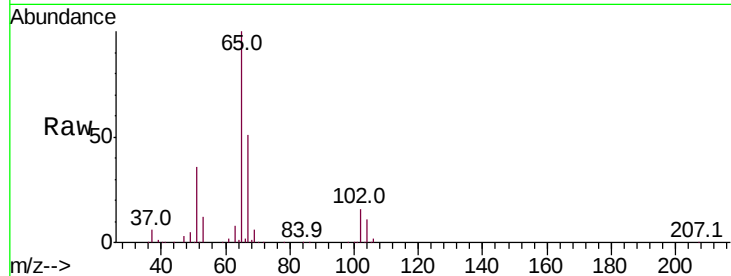
RE131D1-20200916

Tot Ion: 65 Resp: 181083

Ion Ratio Lower Upper

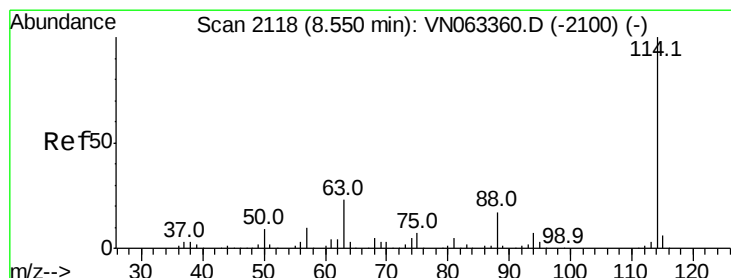
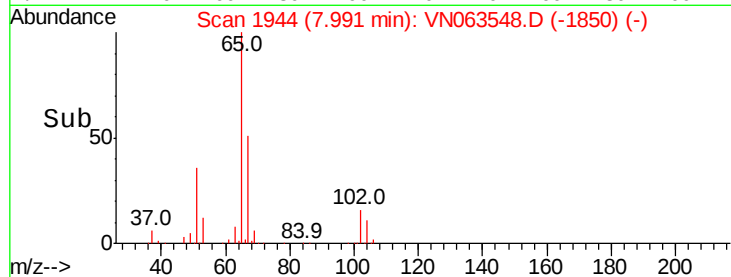
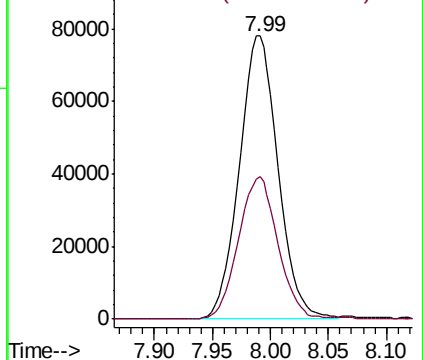
65 100

67 51.3 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063548.D

Acq: 22 Sep 2020 21:18

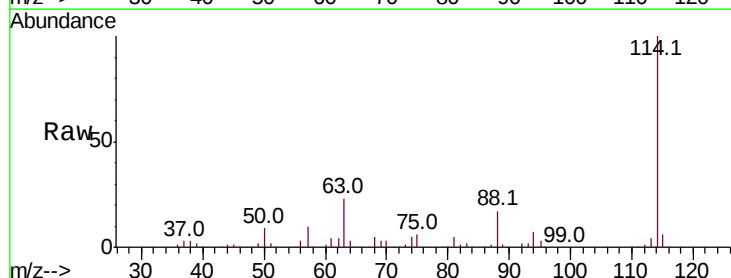
Tgt Ion: 114 Resp: 401677

Ion Ratio Lower Upper

114 100

63 23.0 0.0 46.4

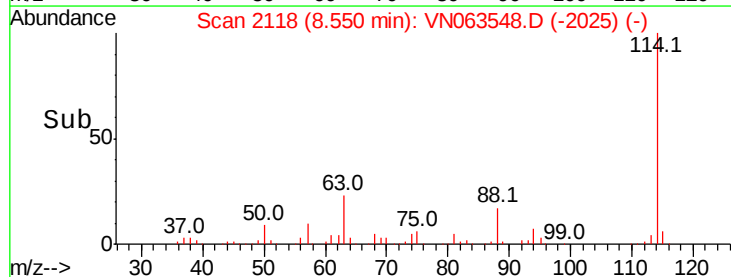
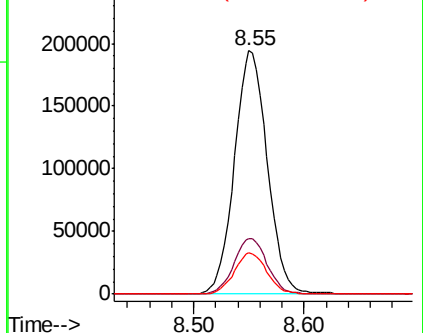
88 17.1 0.0 33.2

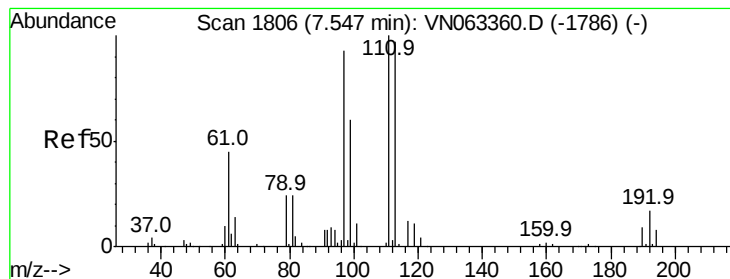


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0





#35

Dibromofluoromethane

Concen: 46.989 ug/l

RT: 7.55 min Scan# 1808

Delta R.T. 0.01 min

Lab File: VN063548.D

Acq: 22 Sep 2020 21:18

Instrument :

MSVOA_N

ClientSampleId :

RE131D1-20200916

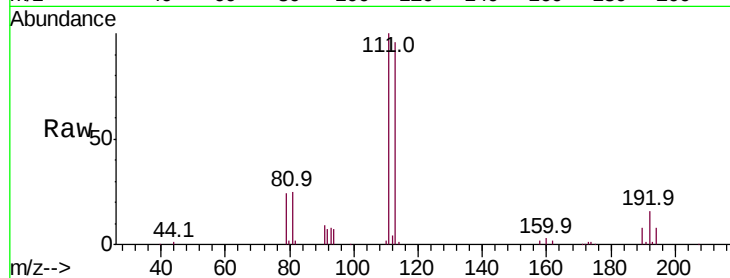
Tot Ion:113 Resp: 130663

Ion Ratio Lower Upper

113 100

111 103.9 82.9 124.3

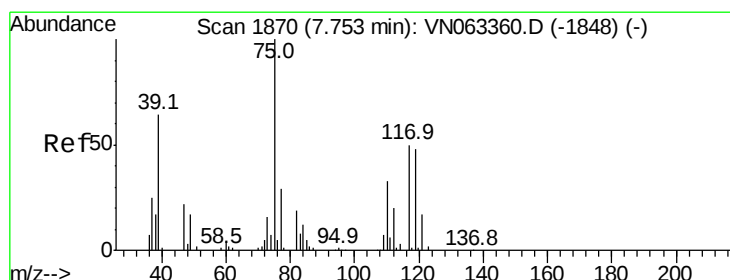
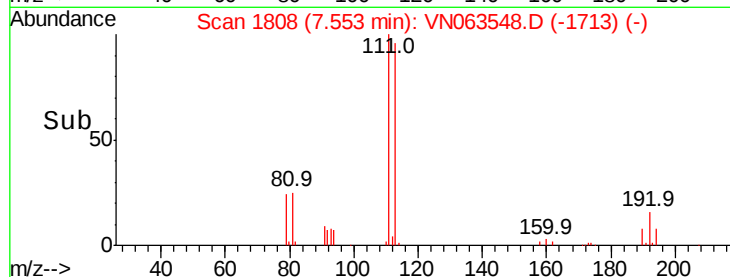
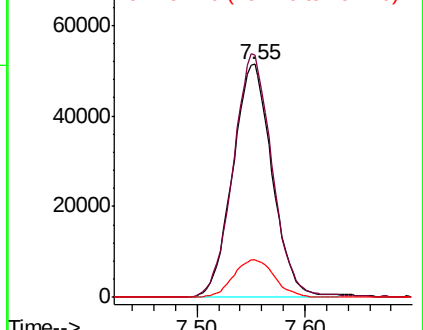
192 16.8 13.9 20.9



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: 4.940 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN063548.D

Acq: 22 Sep 2020 21:18

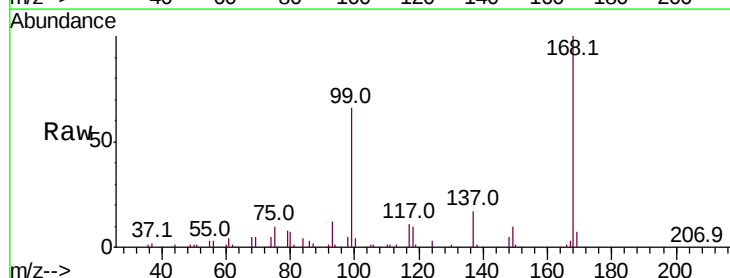
Tgt Ion: 75 Resp: 21139

Ion Ratio Lower Upper

75 100

110 7.6 16.5 49.5#

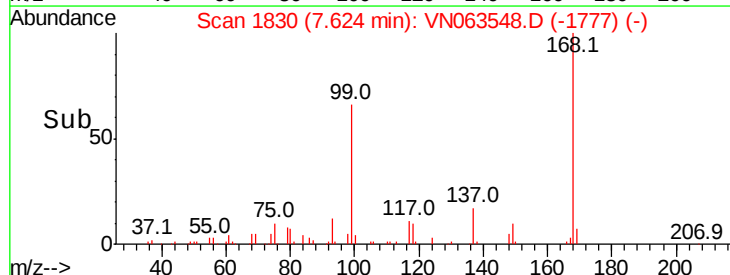
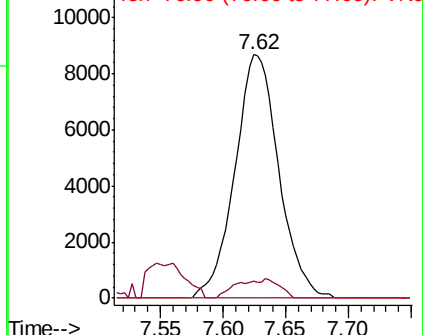
77 0.0 24.6 36.8#

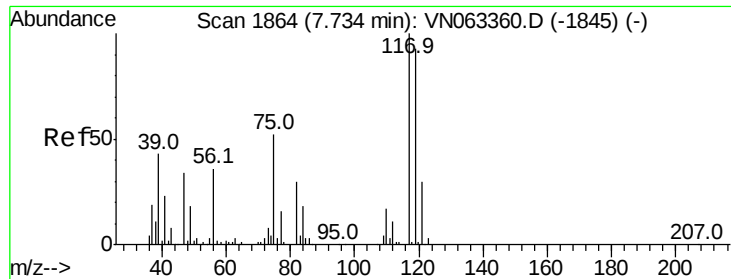


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.473 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063548.D

Acq: 22 Sep 2020 21:18

Instrument :

MSVOA_N

ClientSampleId :

RE131D1-20200916

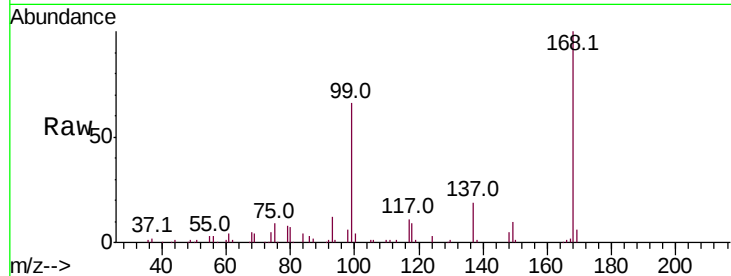
Tot Ion:117 Resp: 23908

Ion Ratio Lower Upper

117 100

119 7.4 74.5 111.7#

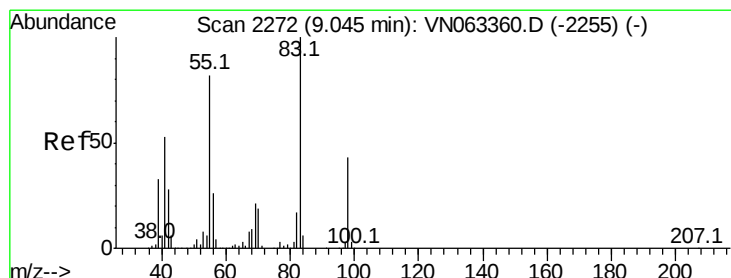
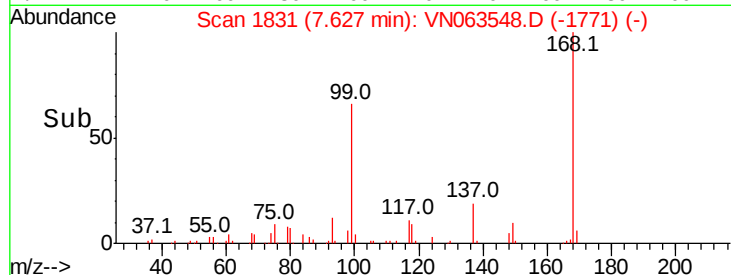
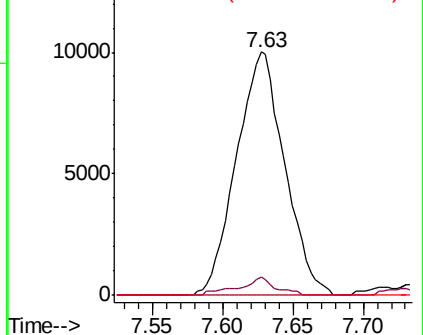
121 0.0 24.1 36.1#



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: 2.233 ug/l

RT: 8.80 min Scan# 2197

Delta R.T. -0.24 min

Lab File: VN063548.D

Acq: 22 Sep 2020 21:18

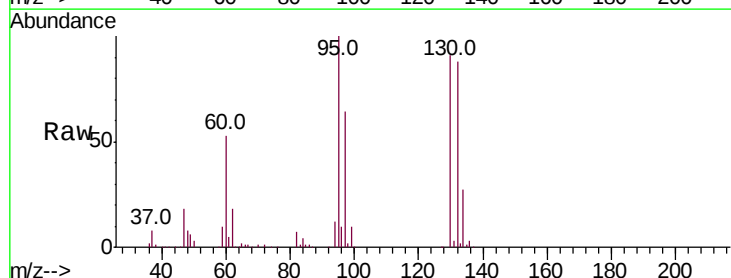
Tgt Ion: 83 Resp: 10372

Ion Ratio Lower Upper

83 100

55 0.0 65.5 98.3#

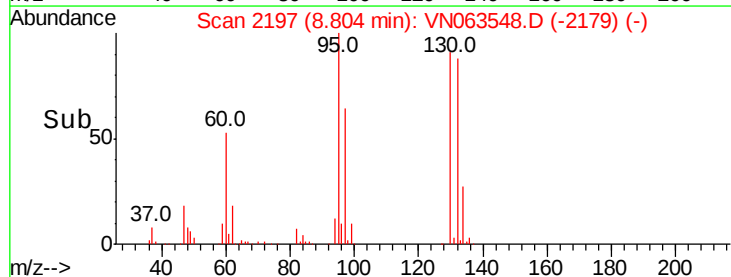
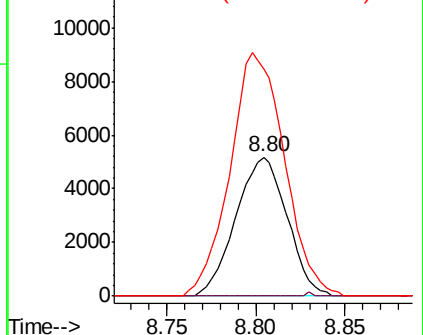
98 160.8 34.2 51.4#

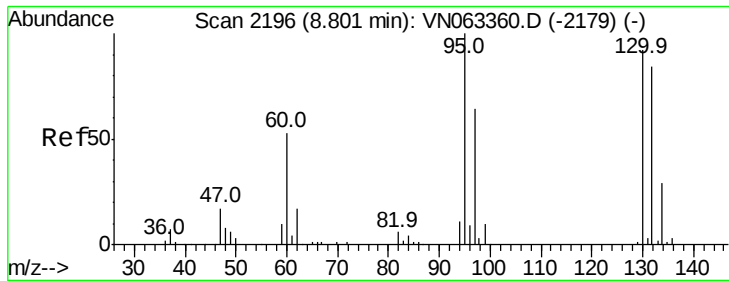


Abundance Ion 83.00 (82.70 to 83.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 98.00 (97.70 to 98.70): VNO





#44

Trichloroethene

Concen: 229.300 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN063548.D

Acq: 22 Sep 2020 21:18

Instrument :

MSVOA_N

ClientSampleId :

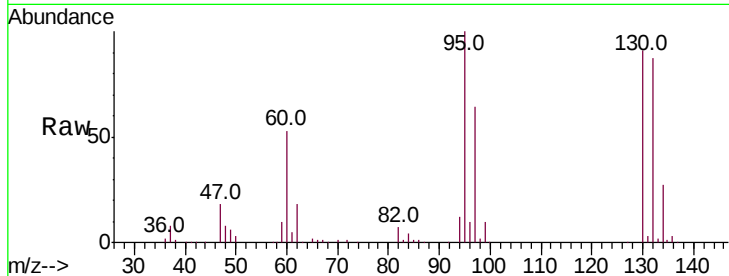
RE131D1-20200916

Tot Ion:130 Resp: 679391

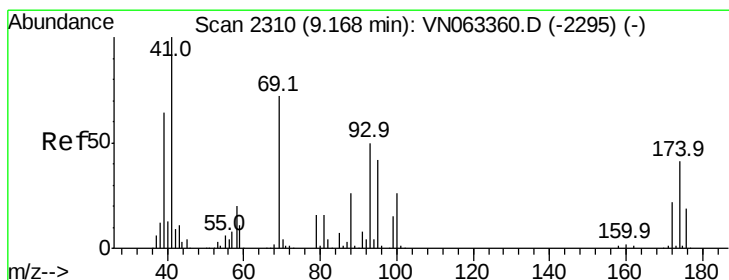
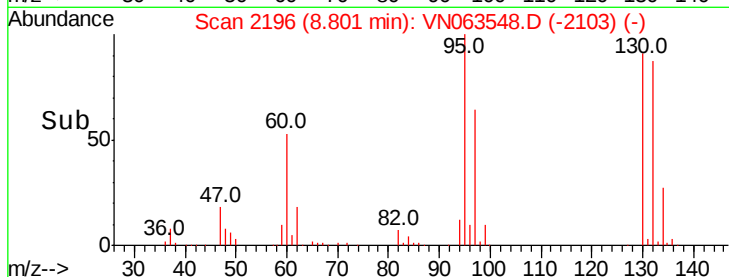
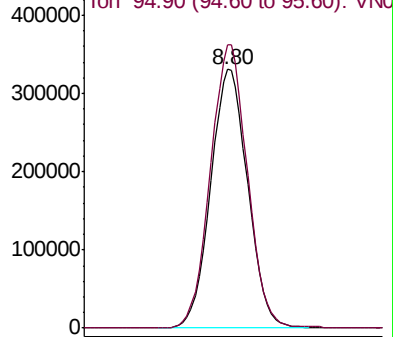
Ion Ratio Lower Upper

130 100

95 109.4 0.0 217.4



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



#49

1,4-Dioxane

Concen: 25.779 ug/l

RT: 9.17 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN063548.D

Acq: 22 Sep 2020 21:18

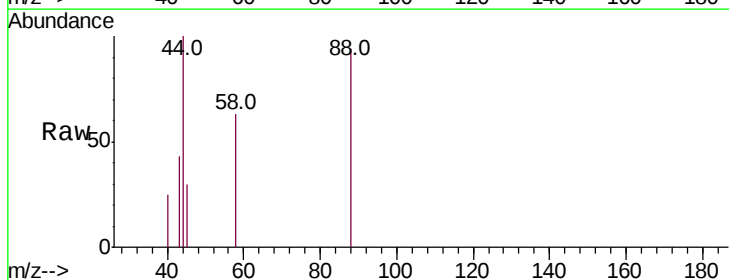
Tgt Ion: 88 Resp: 1365

Ion Ratio Lower Upper

88 100

43 28.7 32.6 49.0#

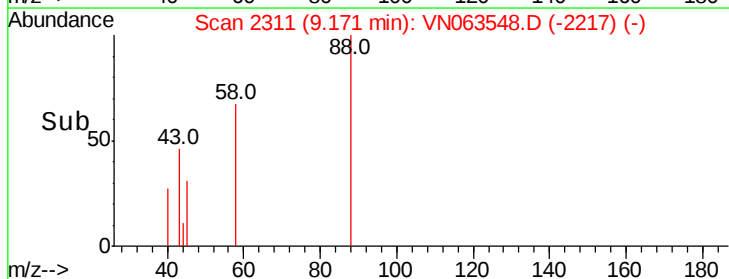
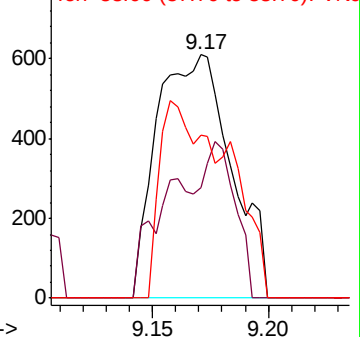
58 0.0 60.0 90.0#

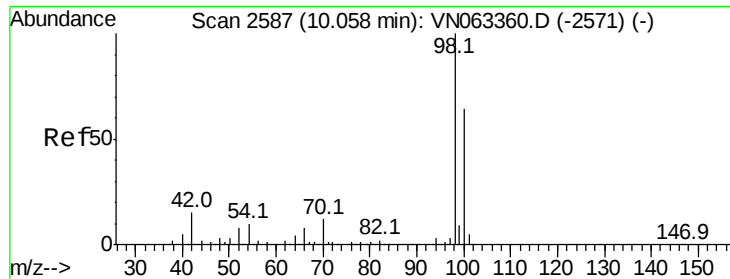


Abundance Ion 88.00 (87.70 to 88.70): VN063360.D (-2295) (-)

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

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





#50

Toluene-d8

Concen: 49.204 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063548.D

Acq: 22 Sep 2020 21:18

Instrument :

MSVOA_N

ClientSampleId :

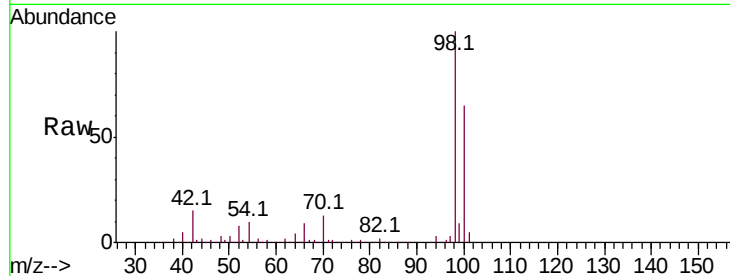
RE131D1-20200916

Tot Ion: 98 Resp: 514483

Ion Ratio Lower Upper

98 100

100 64.1 50.7 76.1



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

Ion 100.00 (99.70 to 100.70): VN063360.D (-2571) (-)

10.06

250000

200000

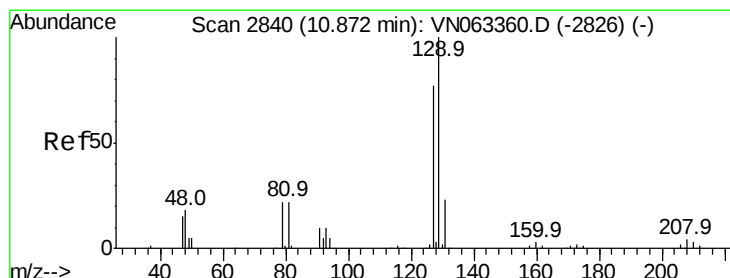
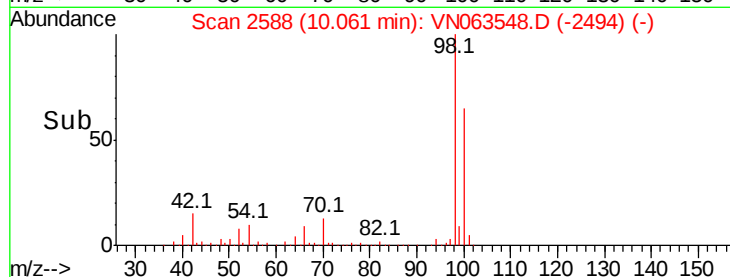
150000

100000

50000

0

Time-->



#60

Dibromochloromethane

Concen: 11.678 ug/l

RT: 10.60 min Scan# 2757

Delta R.T. -0.27 min

Lab File: VN063548.D

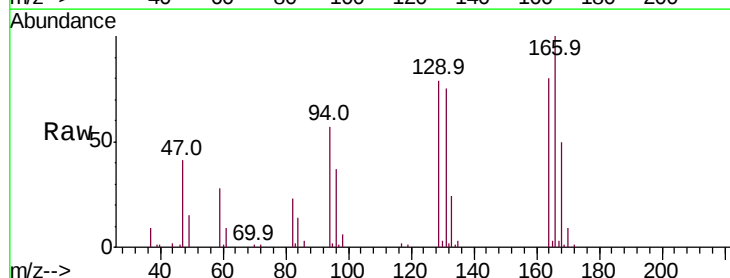
Acq: 22 Sep 2020 21:18

Tgt Ion: 129 Resp: 38489

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) (-)

Ion 126.80 (126.50 to 127.50): VN063360.D (-2826) (-)

25000

20000

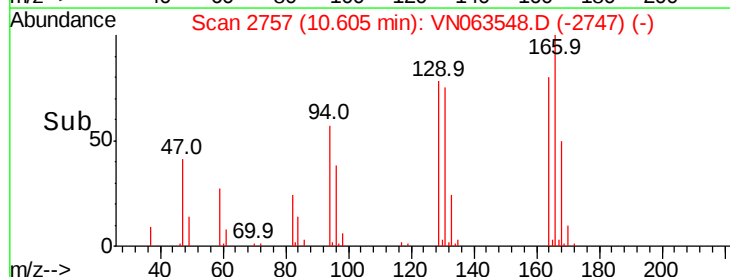
15000

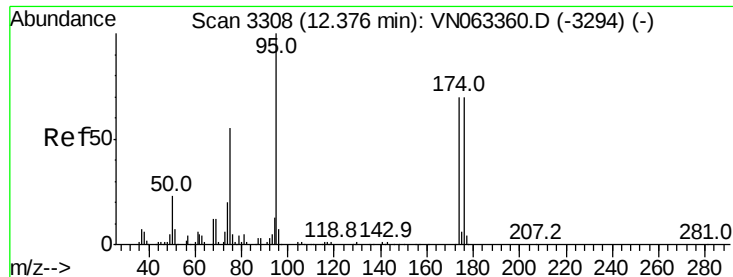
10000

5000

0

Time-->

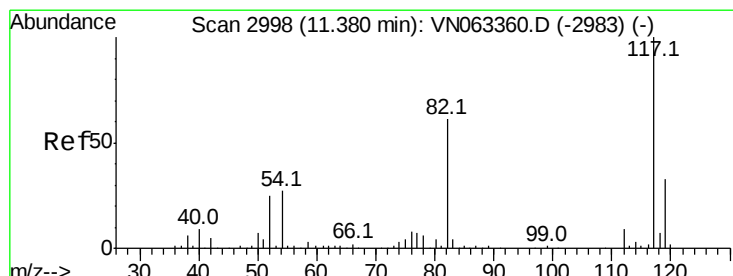
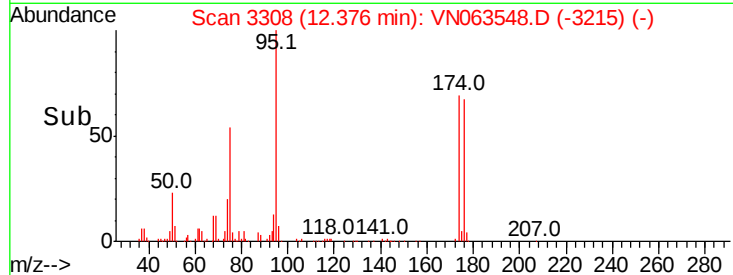
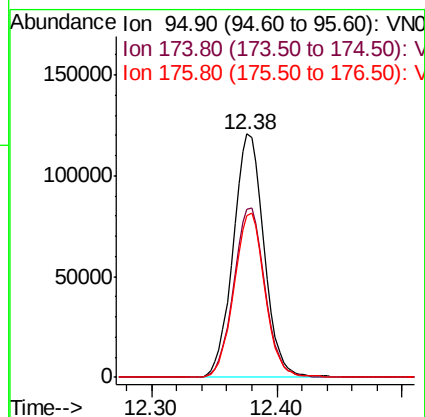
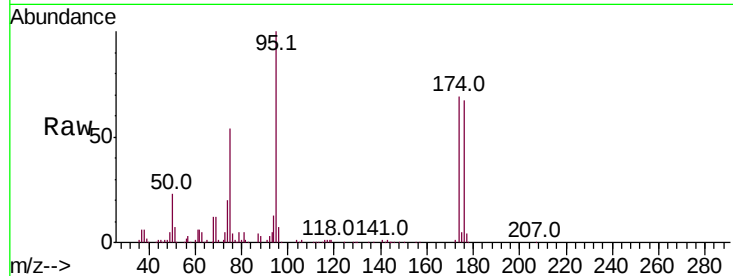




#62
4-Bromofluorobenzene
Concen: 53.867 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063548.D
Acq: 22 Sep 2020 21:18

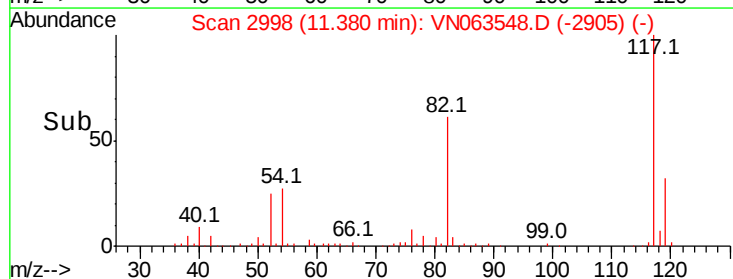
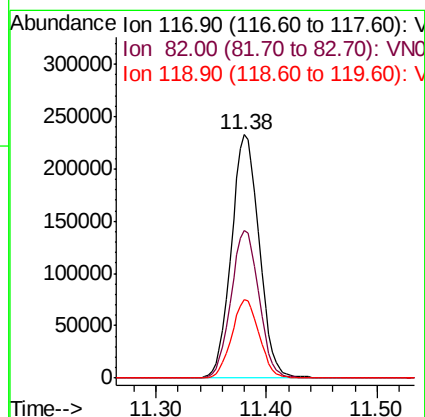
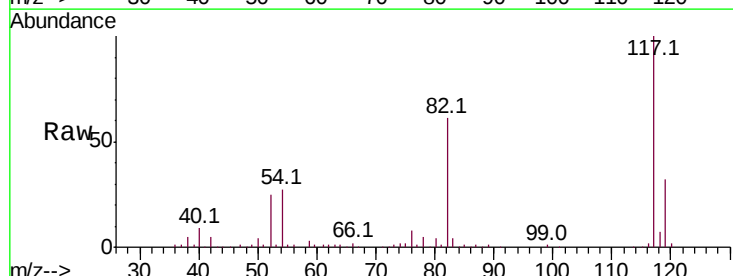
Instrument :
MSVOA_N
ClientSampleId :
RE131D1-20200916

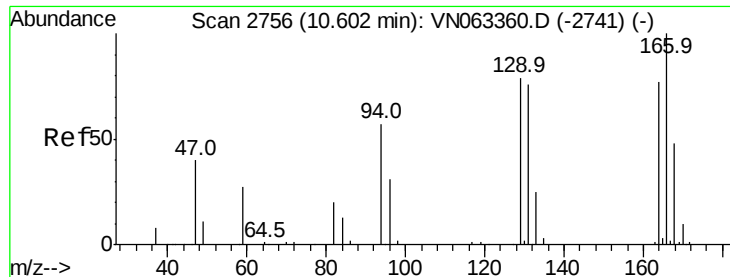
Tot Ion	95	Resp	206472
Ion Ratio	100		
Lower	0.0		
Upper	140.8		
174	70.3		
176	67.6		
	0.0		
	137.6		



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063548.D
Acq: 22 Sep 2020 21:18

Tgt Ion	117	Resp	408517
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower <td>49.2</td> <td></td> <td></td>	49.2		
Upper <td>73.8</td> <td></td> <td></td>	73.8		
82	60.7		
119	32.1		
	26.2		
	39.4		





#64

Tetrachloroethene

Concen: 13.979 ug/l

RT: 10.60 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VN063548.D

Acq: 22 Sep 2020 21:18

Instrument :

MSVOA_N

ClientSampleId :

RE131D1-20200916

Tot Ion:164 Resp: 38886

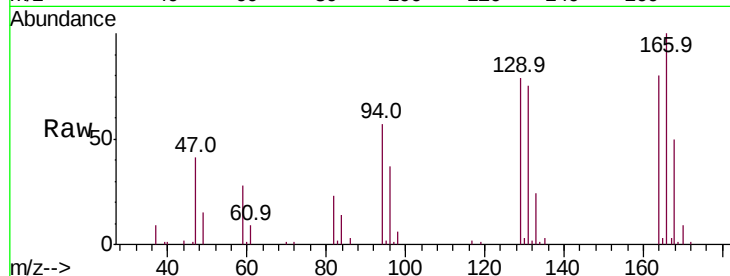
Ion Ratio Lower Upper

164 100

166 124.8 103.4 155.0

129 98.5 81.8 122.6

131 94.0 78.2 117.4

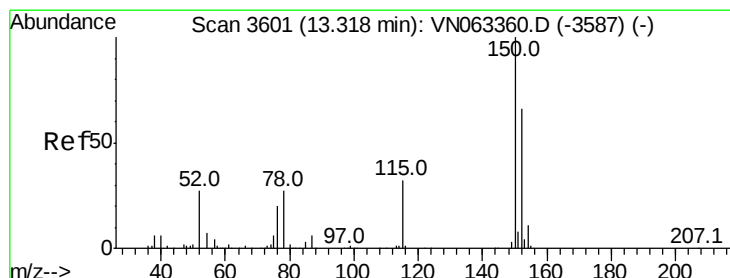
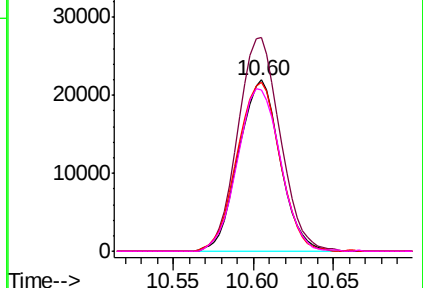
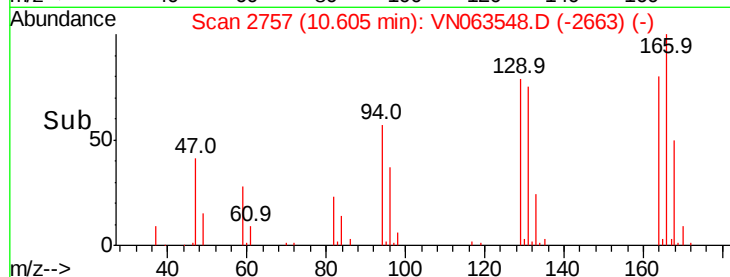


Abundance Ion 163.80 (163.50 to 164.50): V

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: VN063548.D

Acq: 22 Sep 2020 21:18

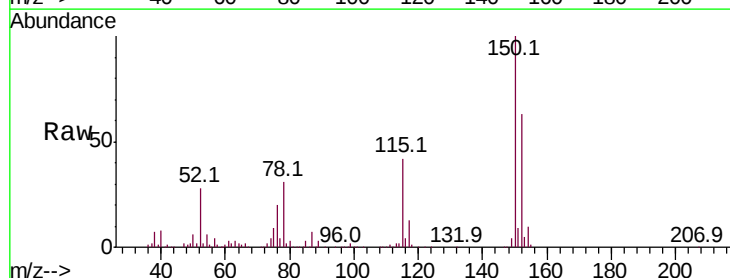
Tgt Ion:152 Resp: 169346

Ion Ratio Lower Upper

152 100

115 64.7 32.2 96.6

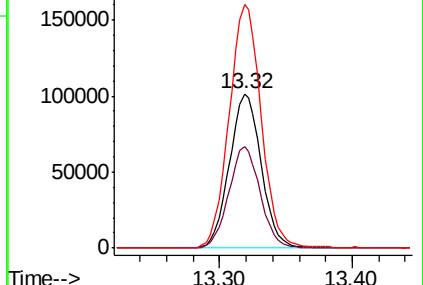
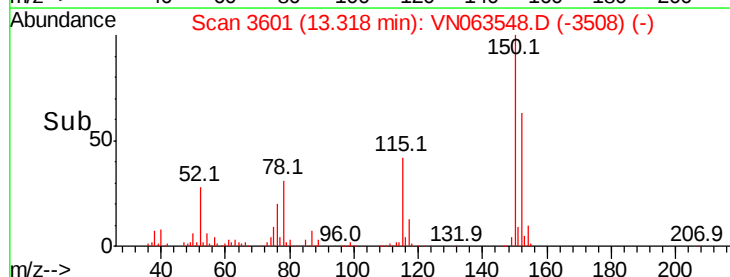
150 159.0 0.0 343.4

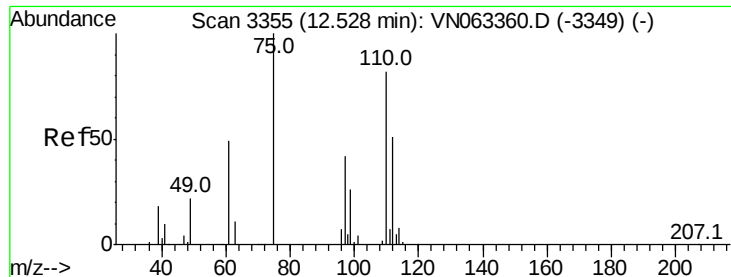


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

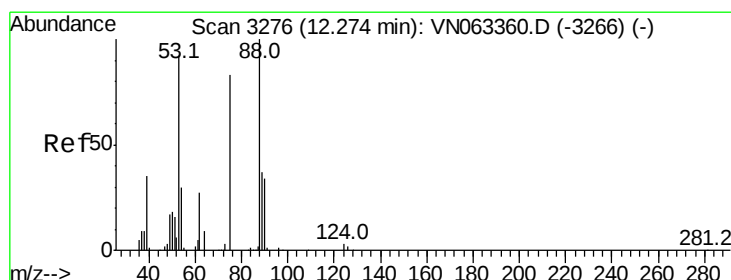
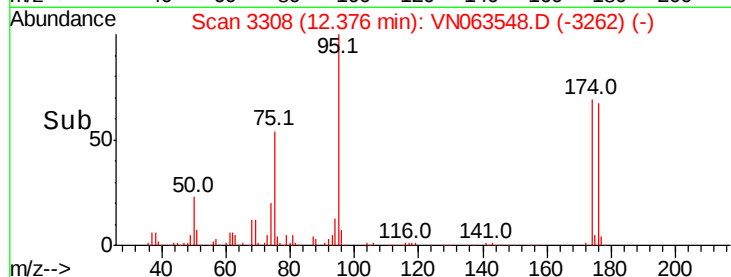
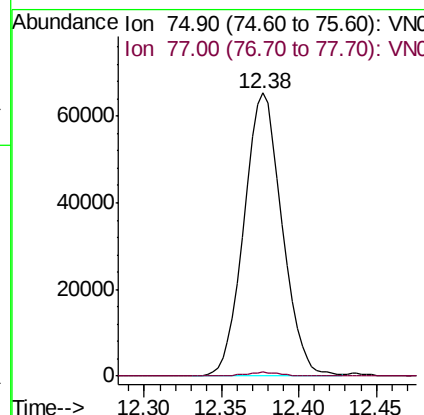
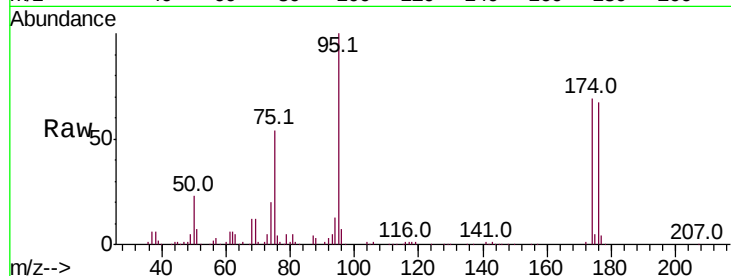




#76
 1,2,3-Trichloropropane
 Concen: 26.765 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN063548.D
 Acq: 22 Sep 2020 21:18

Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D1-20200916

Tot Ion: 75 Resp: 112186
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.379 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN063548.D
 Acq: 22 Sep 2020 21:18

Tgt Ion: 75 Resp: 112186
 Ion Ratio Lower Upper
 75 100
 53 0.0 85.7 128.5#
 89 0.0 38.0 57.0#

