

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092220\
 Data File : VN063537.D
 Acq On : 22 Sep 2020 16:56
 Operator : JC/MD
 Sample : L4082-18DL 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D2-20200916DL

Quant Time: Sep 23 04:02:05 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	204000	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	375491	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	380016	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	172923	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	166470	47.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.88%	
35) Dibromofluoromethane	7.55	113	121857	46.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.76%	
50) Toluene-d8	10.06	98	480837	49.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.38%	
62) 4-Bromofluorobenzene	12.38	95	194067	54.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.32%	

Target Compounds

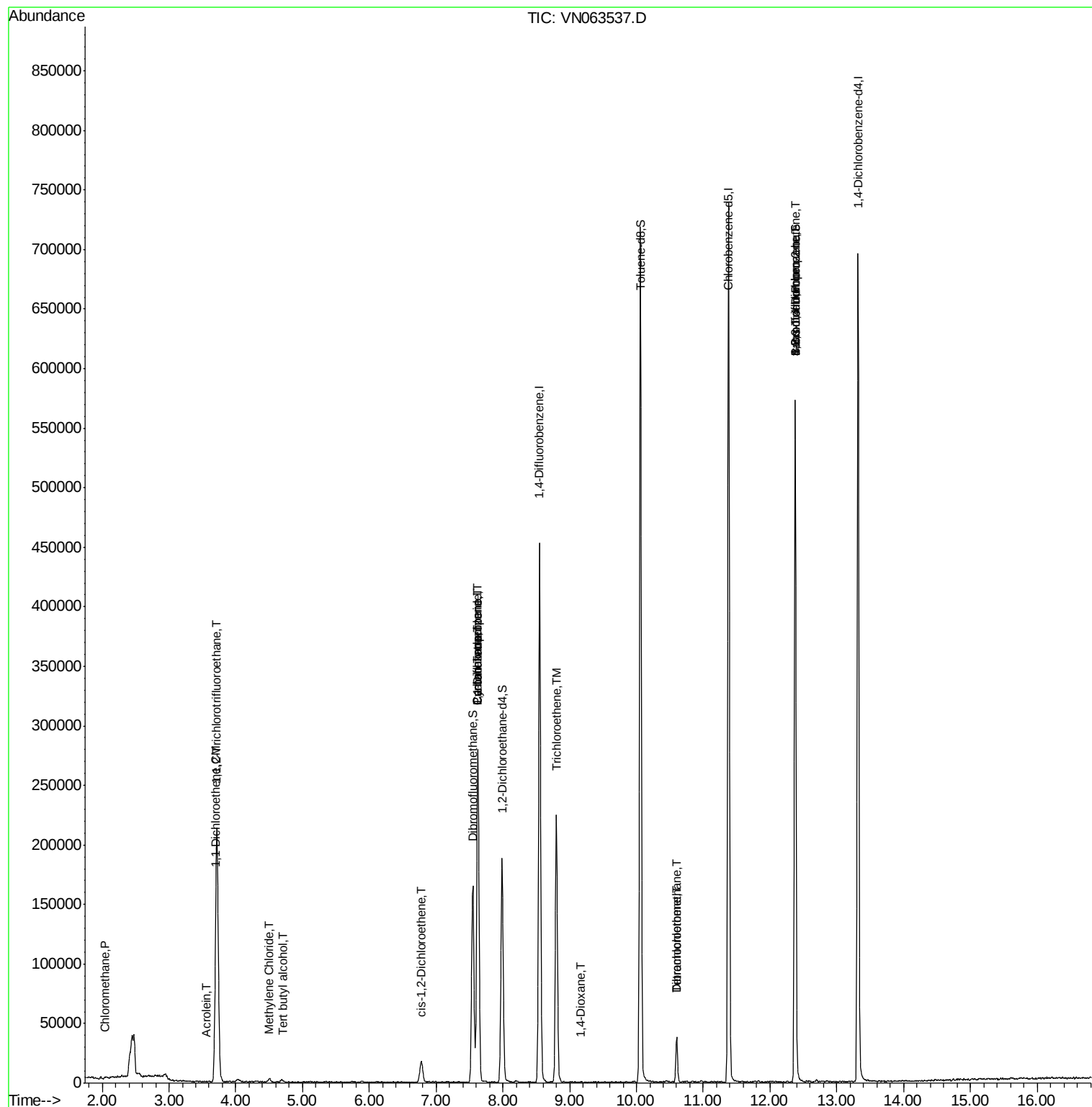
					Qvalue	
3) Chloromethane	2.03	50	792	0.259	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.71	101	129189	56.840	ug/l	99
11) Tert butyl alcohol	4.70	59	893	1.856	ug/l #	72
12) 1,1-Dichloroethene	3.69	96	1159	0.503	ug/l	94
13) Acrolein	3.56	56	78	0.438	ug/l #	13
20) Methylene Chloride	4.50	84	675	0.239	ug/l #	83
27) cis-1,2-Dichloroethene	6.78	96	3520	1.219	ug/l	79
31) Cyclohexane	7.62	56	6578	1.372	ug/l #	49
36) 1,1-Dichloropropene	7.62	75	19378	4.844	ug/l #	50
38) Carbon Tetrachloride	7.62	117	21871	5.356	ug/l #	17
44) Trichloroethene	8.80	130	75241	27.165	ug/l	97
49) 1,4-Dioxane	9.17	88	131	2.647	ug/l #	39
60) Dibromochloromethane	10.60	129	8055	2.614	ug/l #	10
64) Tetrachloroethene	10.60	164	7567	2.924	ug/l	91
71) Bromoform	12.38	173	811	0.368	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	110078	25.719	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	110078	70.511	ug/l #	7

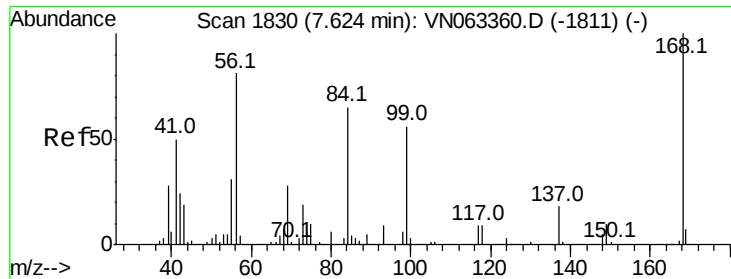
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063537.D

Acq: 22 Sep 2020 16:56

Instrument :

MSVOA_N

ClientSampleId :

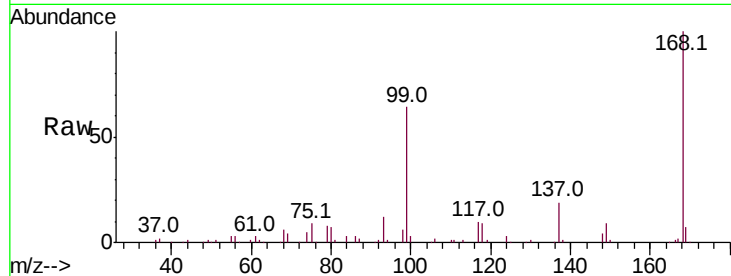
RE131D2-20200916DL

Tot Ion:168 Resp: 204000

Ion Ratio Lower Upper

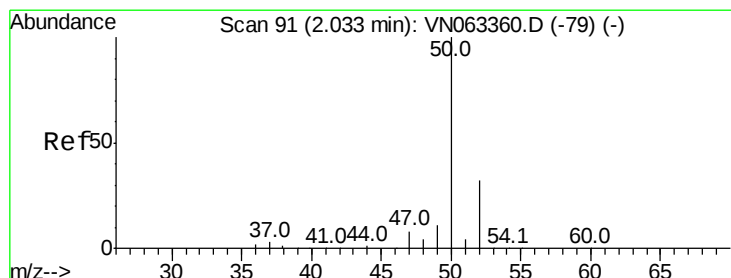
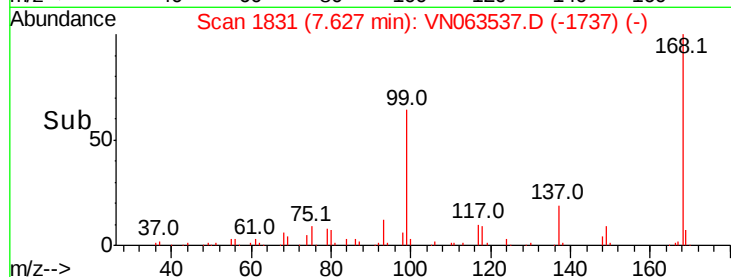
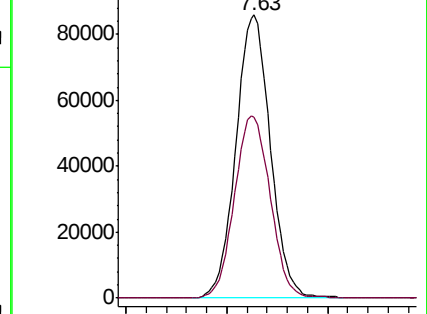
168 100

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): VN0



#3

Chloromethane

Concen: 0.259 ug/l

RT: 2.03 min Scan# 91

Delta R.T. -0.00 min

Lab File: VN063537.D

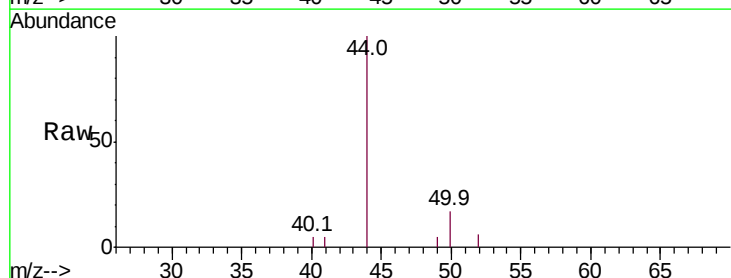
Acq: 22 Sep 2020 16:56

Tgt Ion: 50 Resp: 792

Ion Ratio Lower Upper

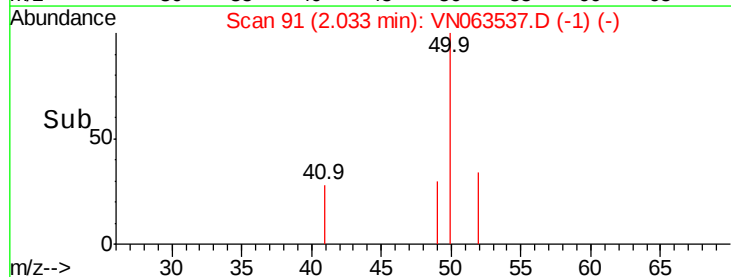
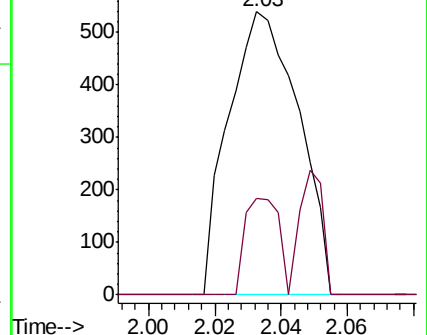
50 100

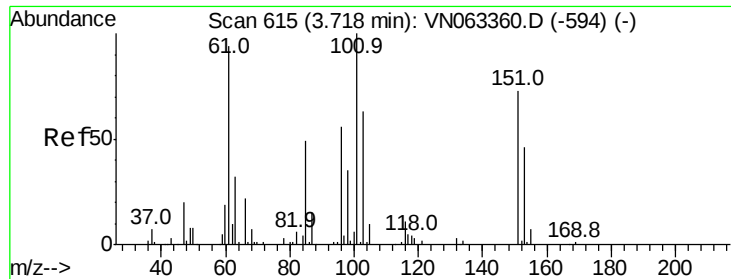
52 34.0 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 56.840 ug/l

RT: 3.71 min Scan# 614

Delta R.T. -0.00 min

Lab File: VN063537.D

Acq: 22 Sep 2020 16:56

Instrument :

MSVOA_N

ClientSampleId :

RE131D2-20200916DL

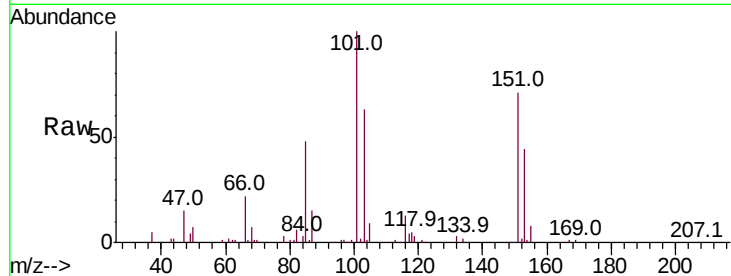
Tot Ion:101 Resp: 129189

Ion Ratio Lower Upper

101 100

85 48.1 37.7 56.5

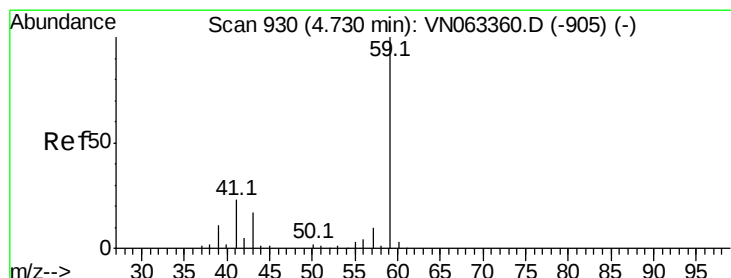
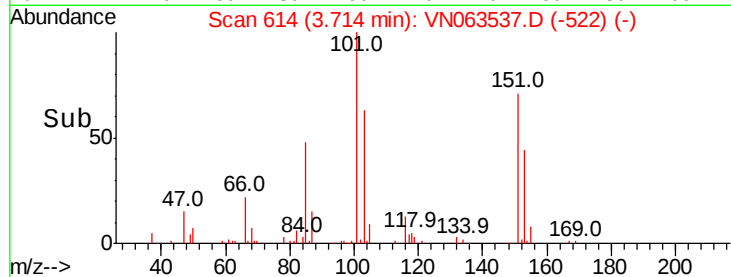
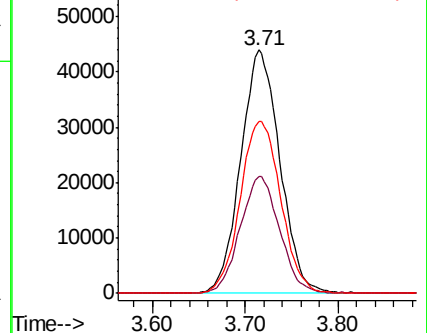
151 72.9 57.7 86.5



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



#11

Tert butyl alcohol

Concen: 1.856 ug/l

RT: 4.70 min Scan# 922

Delta R.T. -0.03 min

Lab File: VN063537.D

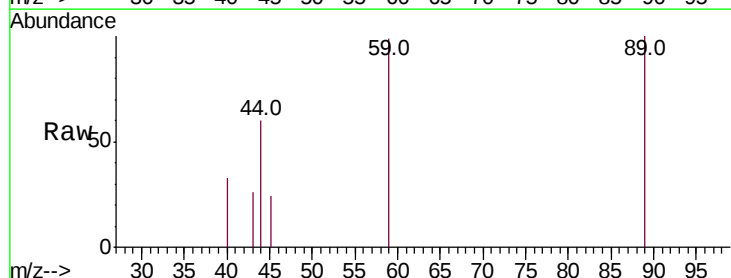
Acq: 22 Sep 2020 16:56

Tgt Ion: 59 Resp: 893

Ion Ratio Lower Upper

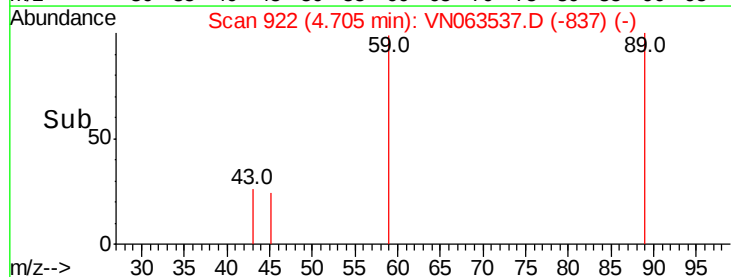
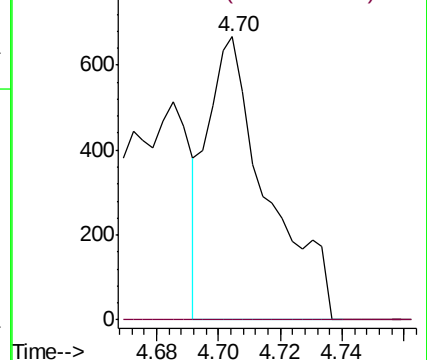
59 100

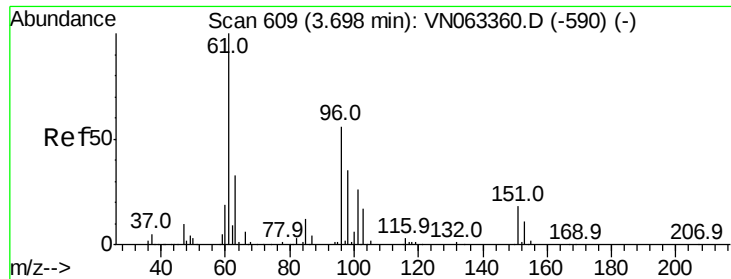
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

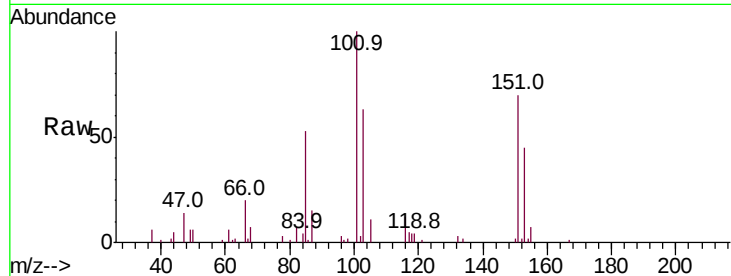




#12
 1,1-Dichloroethene
 Concen: 0.503 ug/l
 RT: 3.69 min Scan# 606
 Delta R.T. -0.01 min
 Lab File: VN063537.D
 Acq: 22 Sep 2020 16:56

Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D2-20200916DL

Tot Ion	Ratio	Lower	Upper
96	100		
61	175.4	143.4	215.2
98	51.7	50.6	76.0

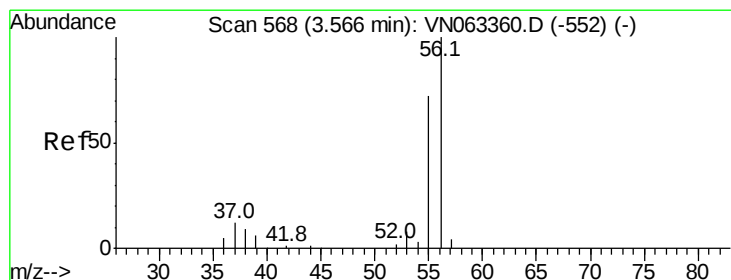
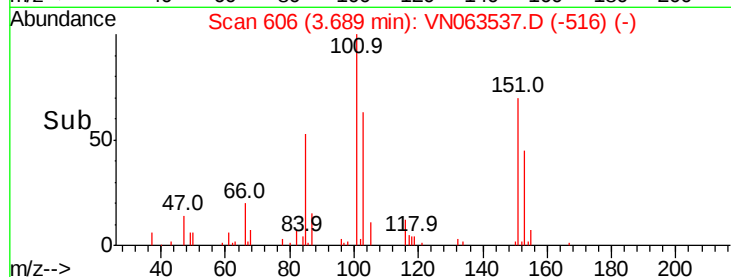
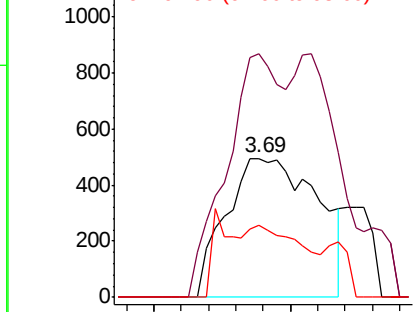


Abundance

Ion 95.90 (95.60 to 96.60): VN0

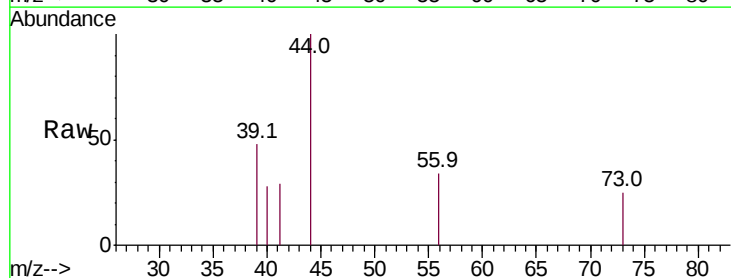
Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#13
 Acrolein
 Concen: 0.438 ug/l
 RT: 3.56 min Scan# 567
 Delta R.T. -0.00 min
 Lab File: VN063537.D
 Acq: 22 Sep 2020 16:56

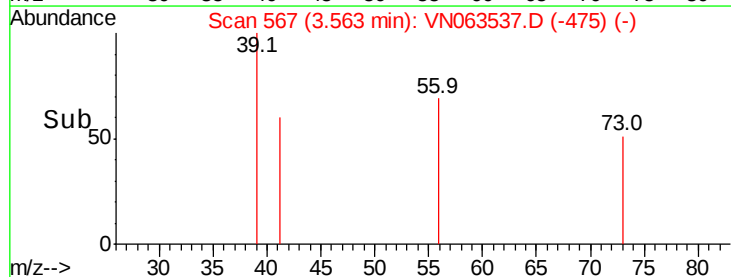
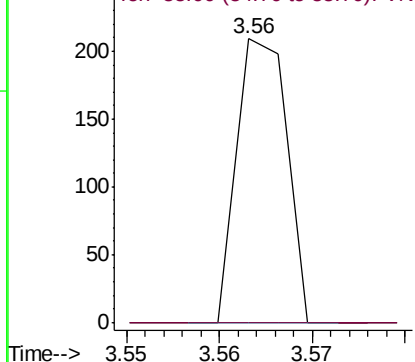
Tgt Ion	Ratio	Lower	Upper
56	100		
55	0.0	58.2	87.2#

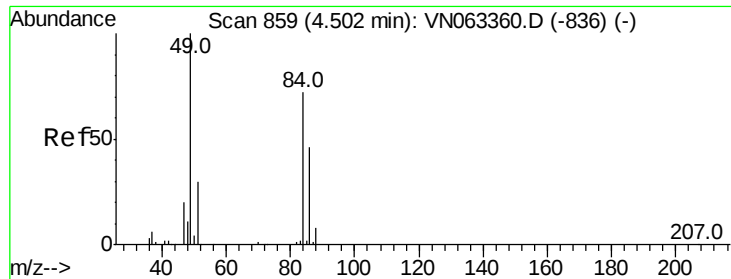


Abundance

Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

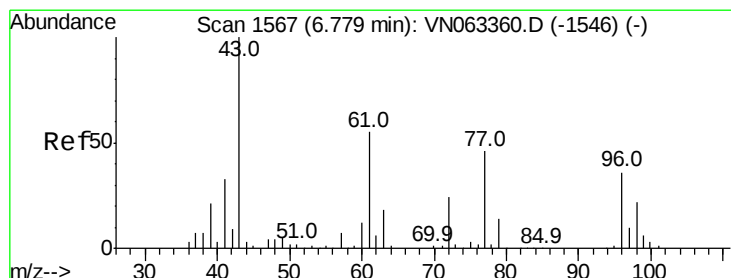
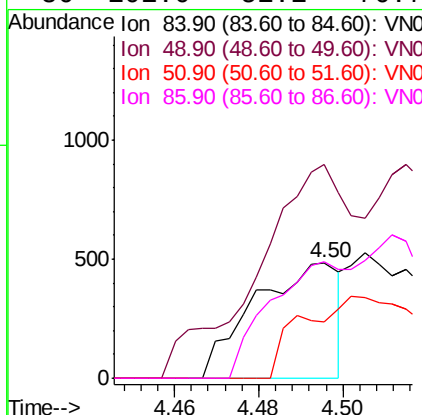
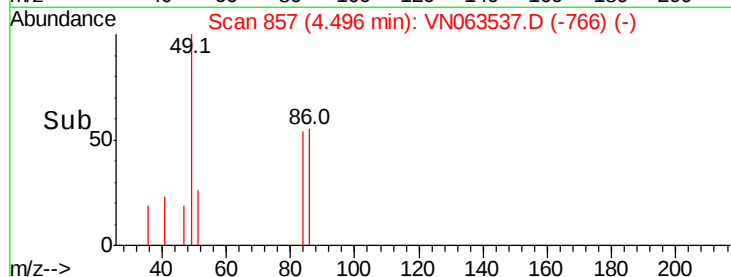
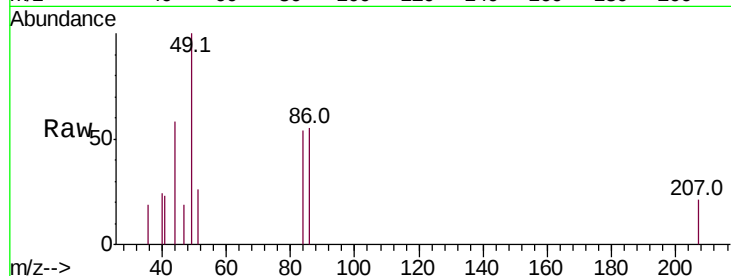




#20
Methvlene Chloride
Concen: 0.239 ug/l
RT: 4.50 min Scan# 857
Delta R.T. -0.01 min
Lab File: VN063537.D
Acq: 22 Sep 2020 16:56

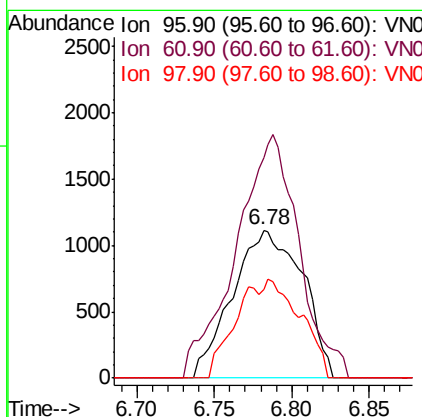
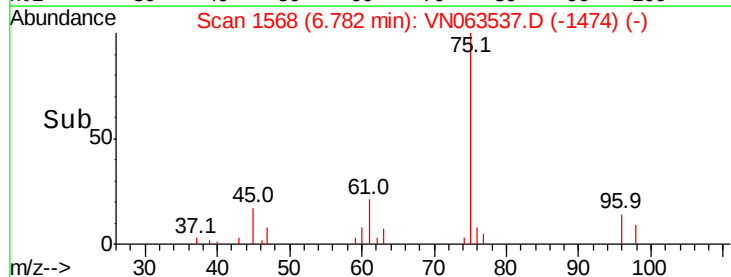
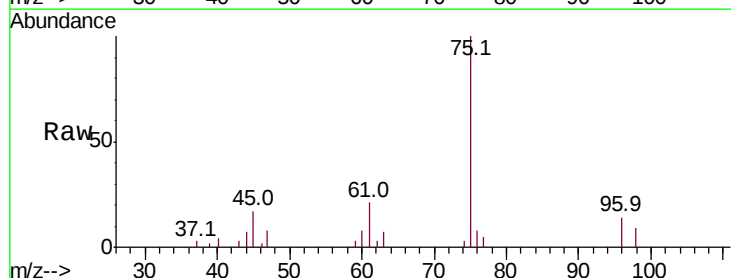
Instrument :
MSVOA_N
ClientSampleId :
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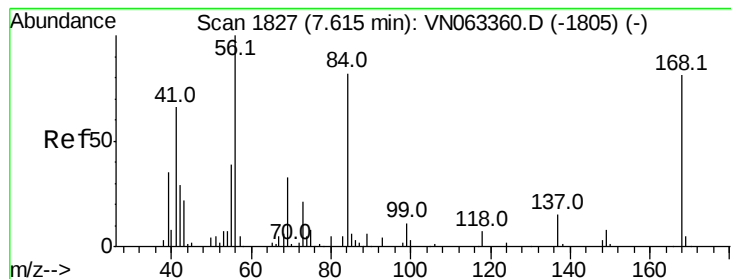
Tot Ion: 84 Resp: 675
Ion Ratio Lower Upper
84 100
49 143.4 110.7 166.1
51 48.3 32.9 49.3
86 101.0 51.1 76.7#



#27
cis-1,2-Dichloroethene
Concen: 1.219 ug/l
RT: 6.78 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VN063537.D
Acq: 22 Sep 2020 16:56

Tgt Ion: 96 Resp: 3520
Ion Ratio Lower Upper
96 100
61 147.3 0.0 319.6
98 24.3 0.0 127.8





#31

Cyclohexane

Concen: 1.372 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN063537.D

Acq: 22 Sep 2020 16:56

Instrument :

MSVOA_N

ClientSampleId :

RE131D2-20200916DL

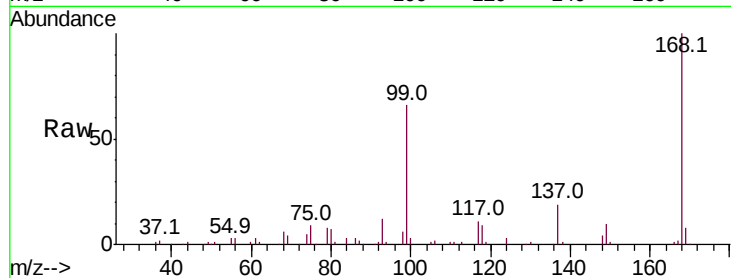
Tot Ion: 56 Resp: 6578

Ion Ratio Lower Upper

56 100

69 125.1 26.1 39.1#

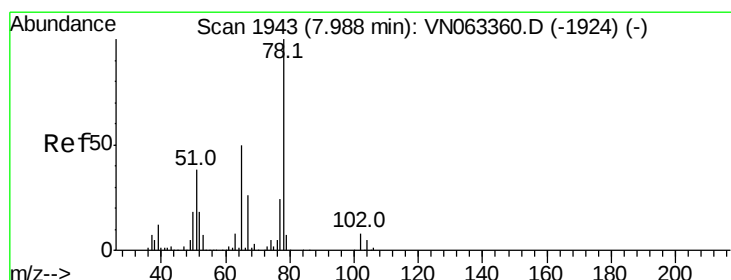
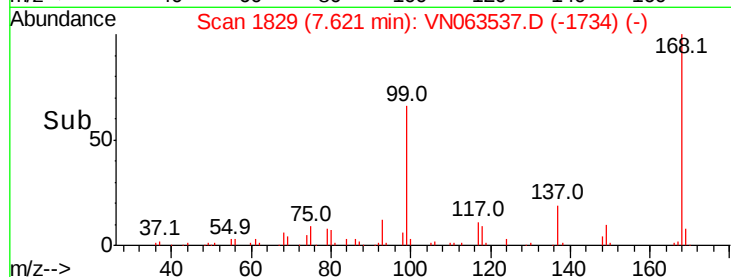
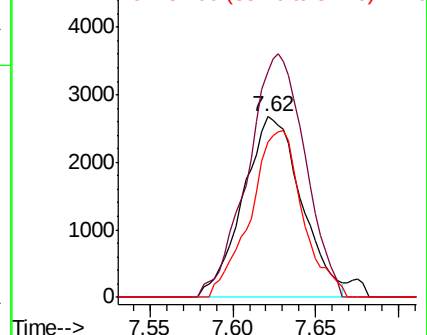
84 86.3 65.4 98.2



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



#33

1,2-Dichloroethane-d4

Concen: 47.938 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063537.D

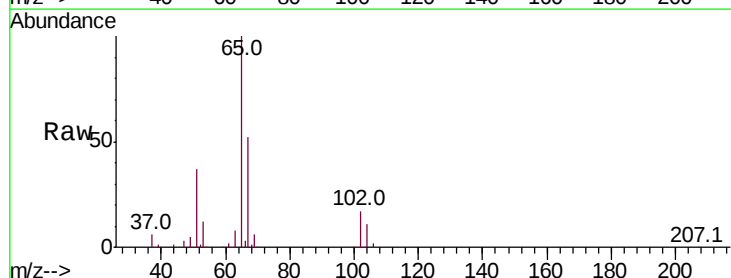
Acq: 22 Sep 2020 16:56

Tgt Ion: 65 Resp: 166470

Ion Ratio Lower Upper

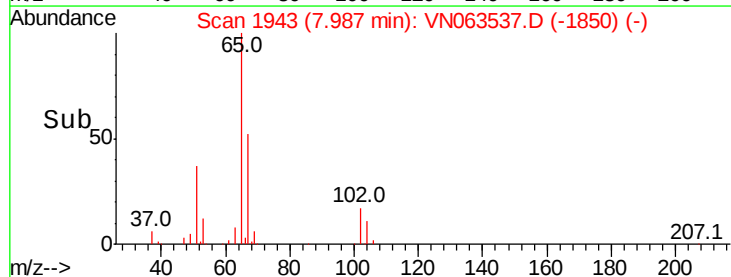
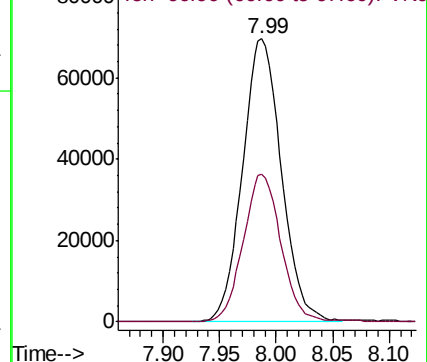
65 100

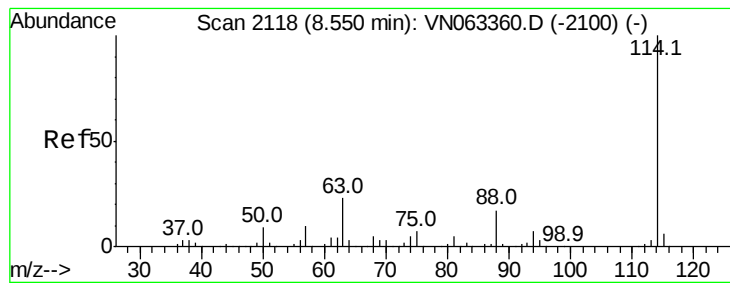
67 50.6 0.0 104.2



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: VN063537.D

Acq: 22 Sep 2020 16:56

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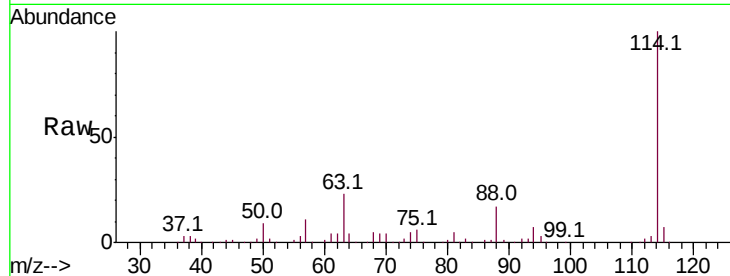
Tot Ion:114 Resp: 375491

Ion Ratio Lower Upper

114 100

63 22.9 0.0 46.4

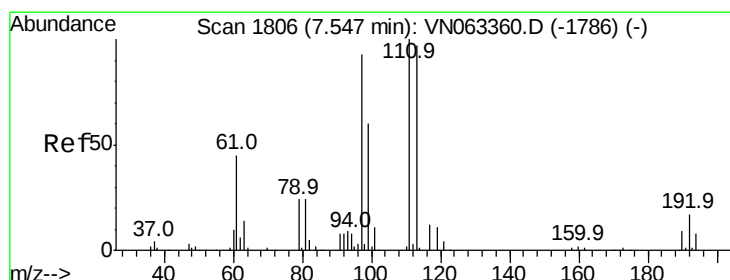
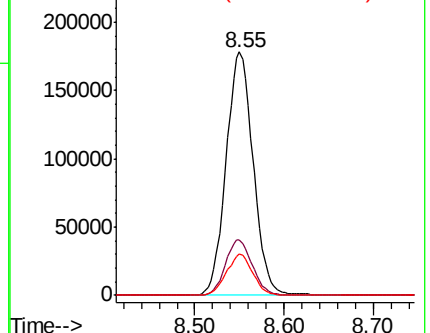
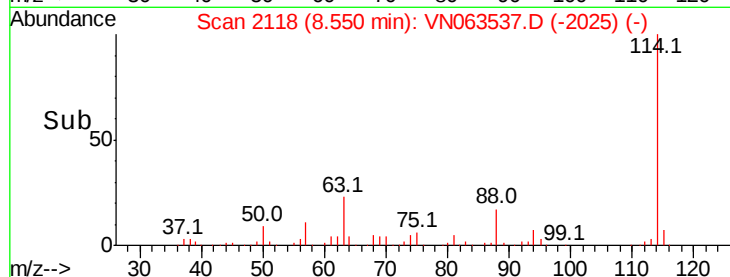
88 16.8 0.0 33.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 46.878 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063537.D

Acq: 22 Sep 2020 16:56

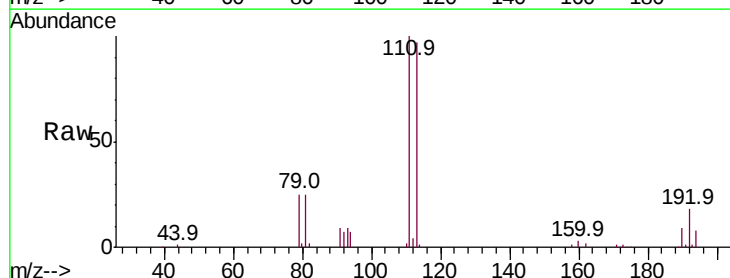
Tgt Ion:113 Resp: 121857

Ion Ratio Lower Upper

113 100

111 103.4 82.9 124.3

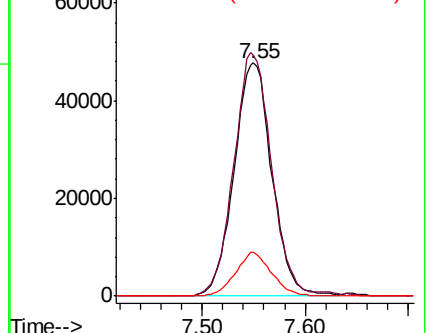
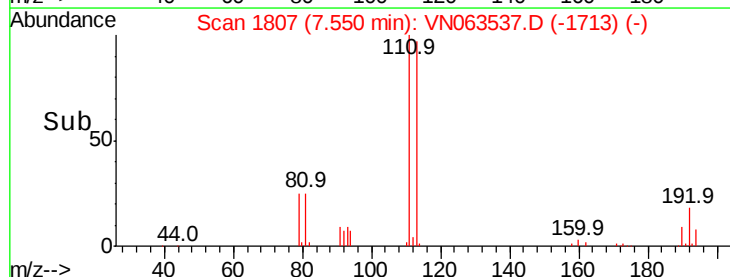
192 17.9 13.9 20.9

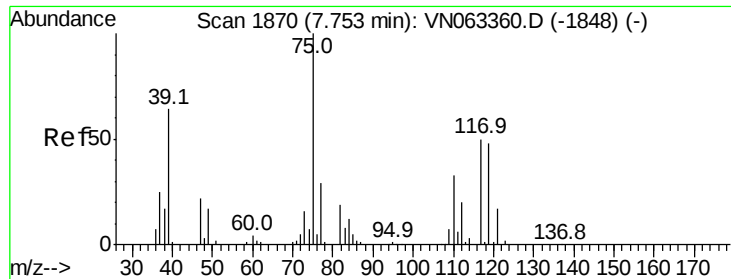


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.844 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN063537.D

Acq: 22 Sep 2020 16:56

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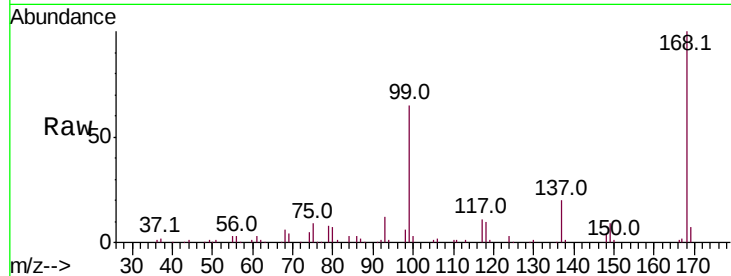
Tot Ion: 75 Resp: 19378

Ion Ratio Lower Upper

75 100

110 8.2 16.5 49.5#

77 0.2 24.6 36.8#

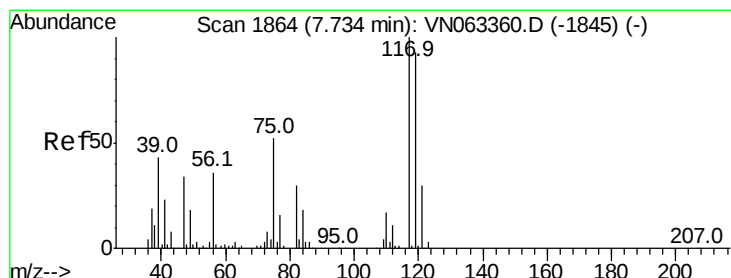
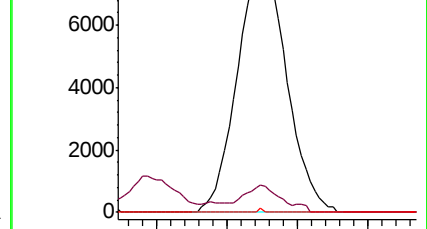
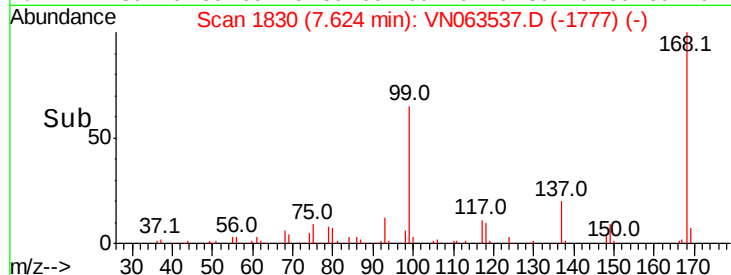


Abundance Ion 74.90 (74.60 to 75.60): VN063537.D (-1777) (-)

Ion 109.90 (109.60 to 110.60): VN063537.D (-1777) (-)

Ion 76.90 (76.60 to 77.60): VN063537.D (-1777) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.356 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063537.D

Acq: 22 Sep 2020 16:56

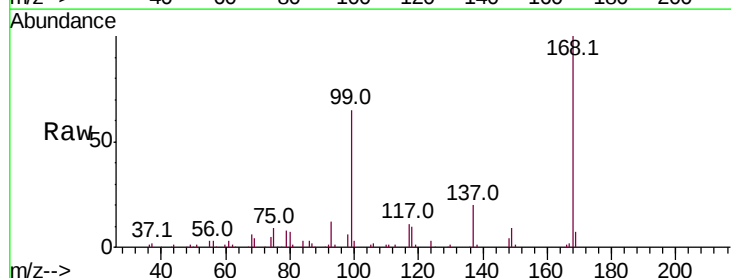
Tgt Ion: 117 Resp: 21871

Ion Ratio Lower Upper

117 100

119 5.0 74.5 111.7#

121 0.0 24.1 36.1#

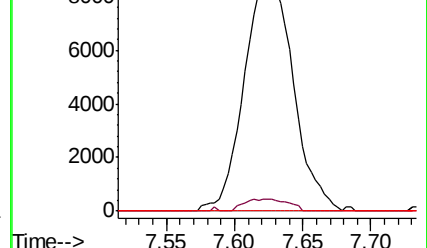
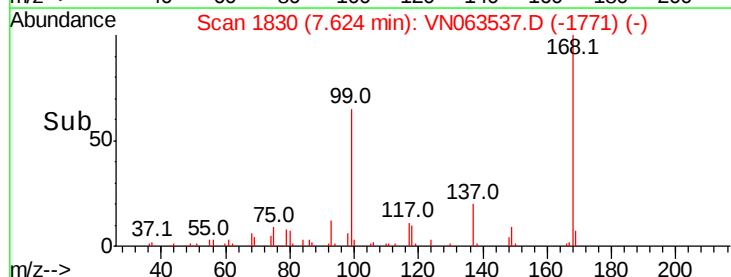


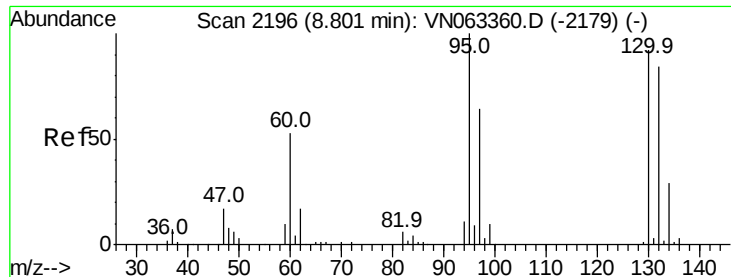
Abundance Ion 116.80 (116.50 to 117.50): VN063537.D (-1771) (-)

Ion 118.80 (118.50 to 119.50): VN063537.D (-1771) (-)

Ion 120.80 (120.50 to 121.50): VN063537.D (-1771) (-)

Time-->





#44

Trichloroethene

Concen: 27.165 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN063537.D

Acq: 22 Sep 2020 16:56

Instrument :

MSVOA_N

ClientSampleId :

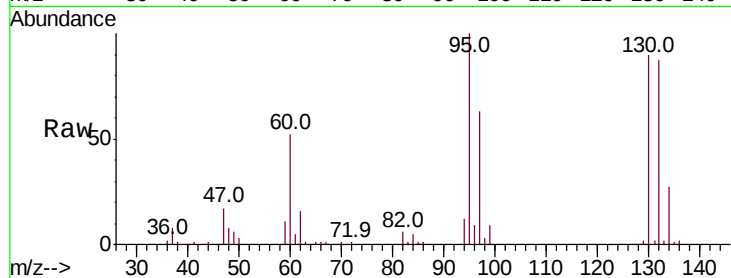
RE131D2-20200916DL

Tot Ion:130 Resp: 75241

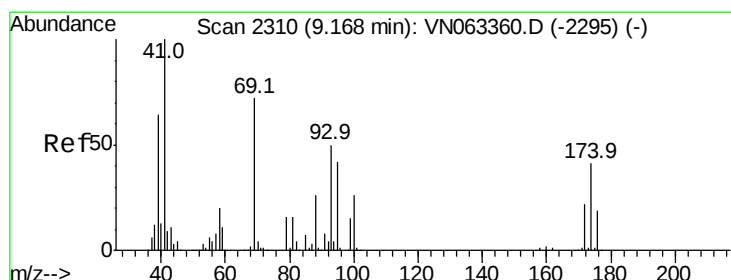
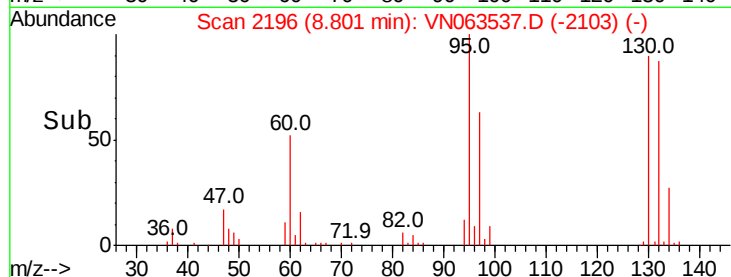
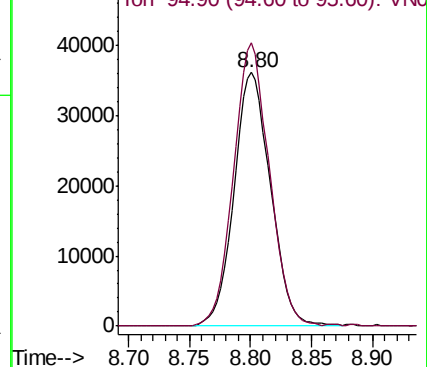
Ion Ratio Lower Upper

130 100

95 111.5 0.0 217.4



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



#49

1,4-Dioxane

Concen: 2.647 ug/l

RT: 9.17 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN063537.D

Acq: 22 Sep 2020 16:56

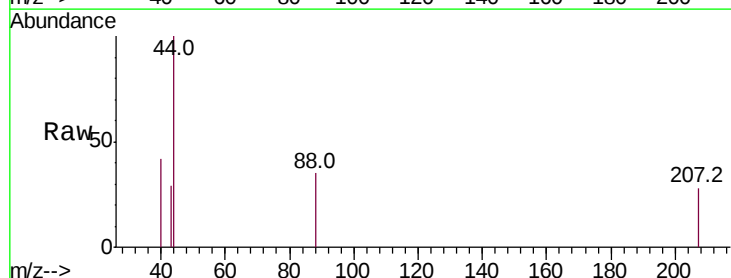
Tgt Ion: 88 Resp: 131

Ion Ratio Lower Upper

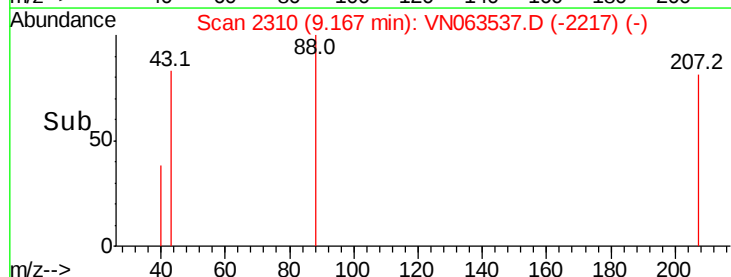
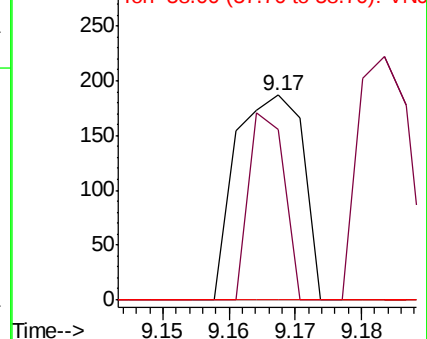
88 100

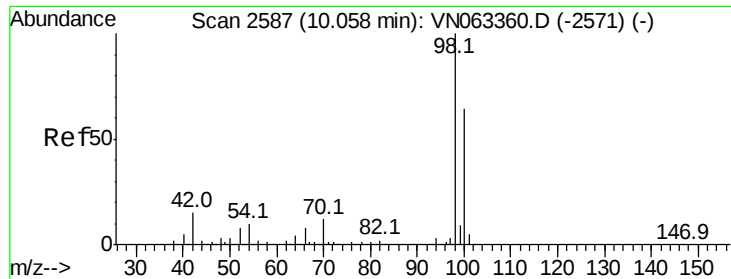
43 48.1 32.6 49.0

58 0.0 60.0 90.0#



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





#50

Toluene-d8

Concen: 49.194 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063537.D

Acq: 22 Sep 2020 16:56

Instrument :

MSVOA_N

ClientSampleId :

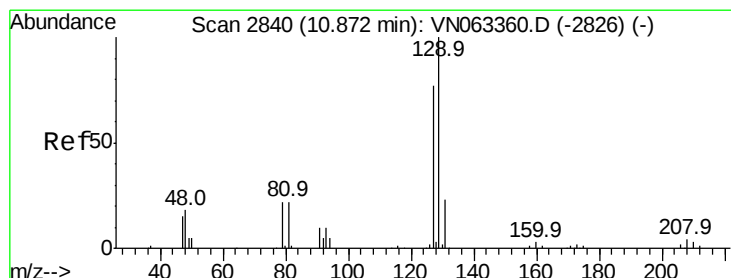
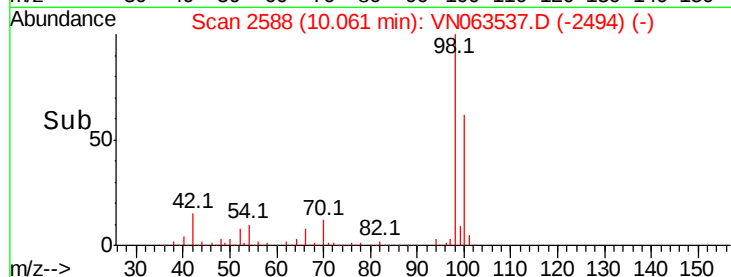
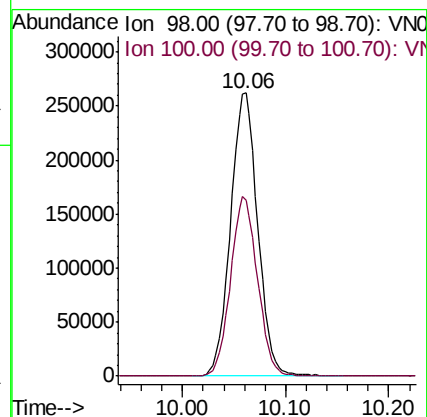
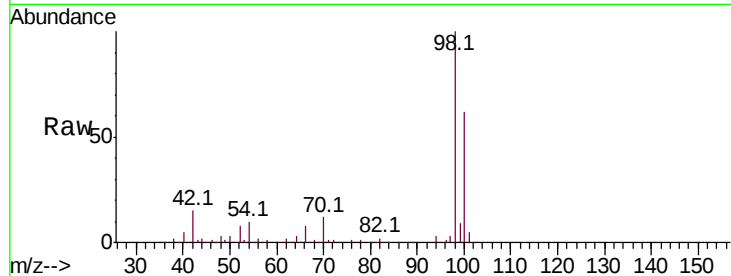
RE131D2-20200916DL

Tot Ion: 98 Resp: 480837

Ion Ratio Lower Upper

98 100

100 62.8 50.7 76.1



#60

Dibromochloromethane

Concen: 2.614 ug/l

RT: 10.60 min Scan# 2756

Delta R.T. -0.27 min

Lab File: VN063537.D

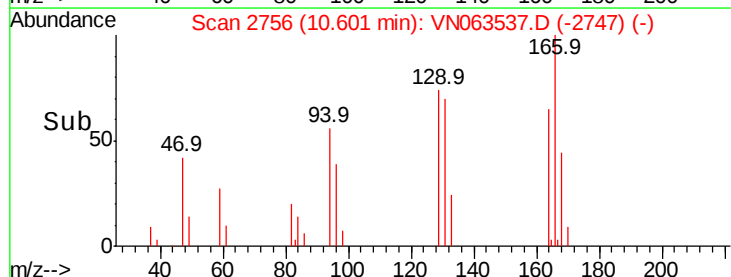
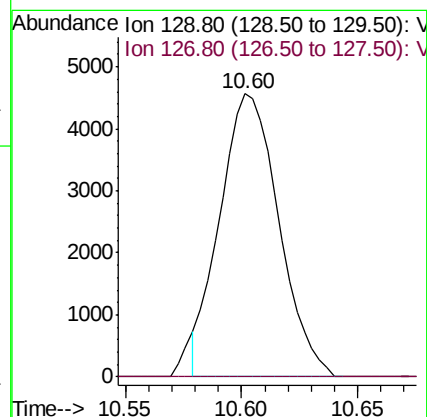
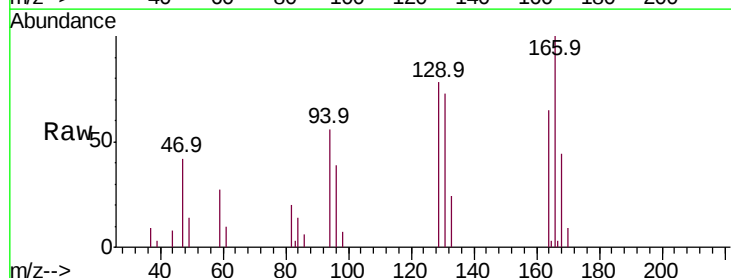
Acq: 22 Sep 2020 16:56

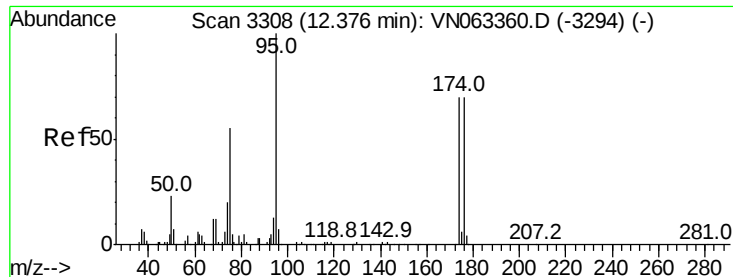
Tgt Ion: 129 Resp: 8055

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.3#





#62

4-Bromofluorobenzene

Concen: 54.162 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063537.D

Acq: 22 Sep 2020 16:56

Instrument :

MSVOA_N

ClientSampleId :

RE131D2-20200916DL

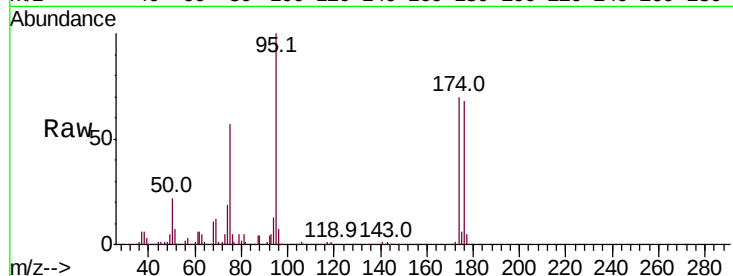
Tot Ion: 95 Resp: 194067

Ion Ratio Lower Upper

95 100

174 71.7 0.0 140.8

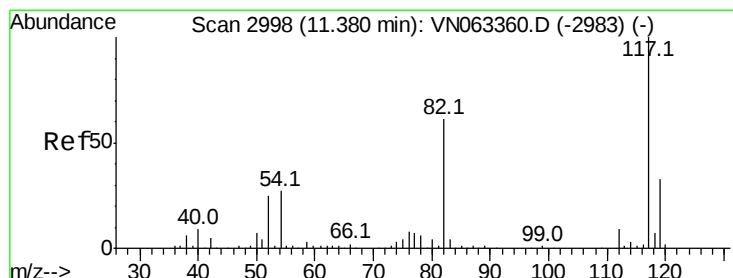
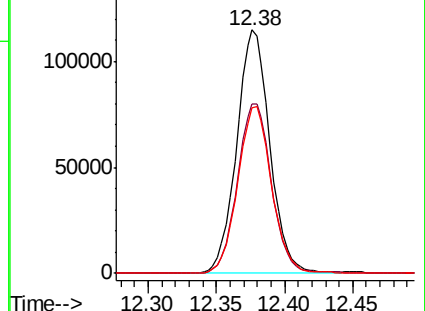
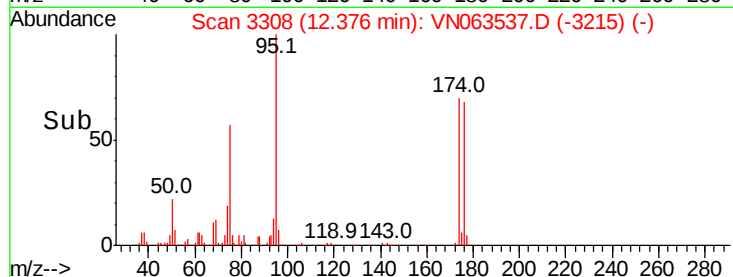
176 69.9 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN063537.D (-2905) (-)

Ion 173.80 (173.50 to 174.50): VN063537.D (-2905) (-)

Ion 175.80 (175.50 to 176.50): VN063537.D (-2905) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063537.D

Acq: 22 Sep 2020 16:56

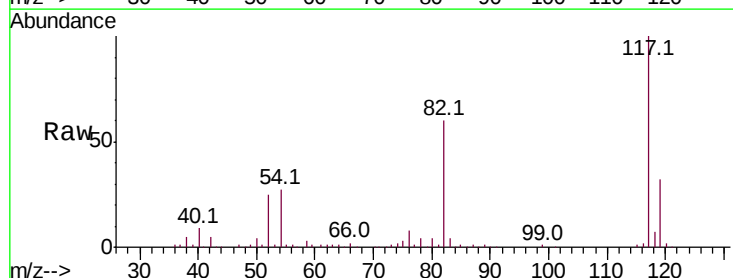
Tgt Ion: 117 Resp: 380016

Ion Ratio Lower Upper

117 100

82 59.8 49.2 73.8

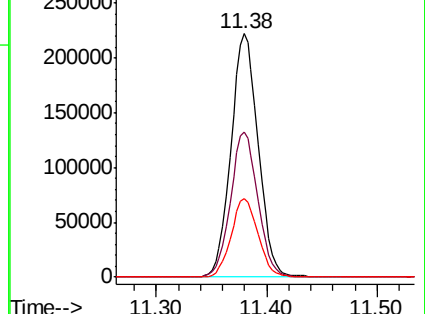
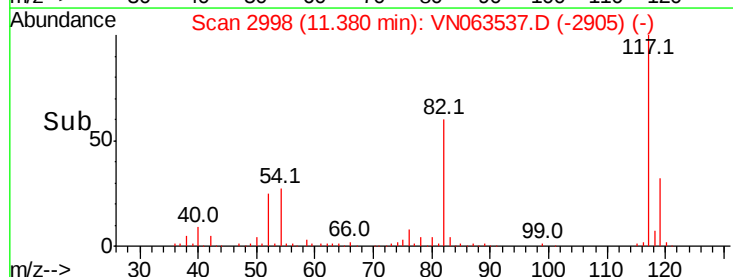
119 32.2 26.2 39.4

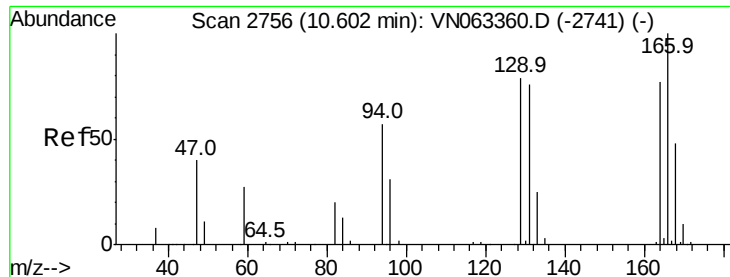


Abundance Ion 116.90 (116.60 to 117.60): VN063537.D (-2905) (-)

Ion 82.00 (81.70 to 82.70): VN063537.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN063537.D (-2905) (-)





#64

Tetrachloroethene

Concen: 2.924 ug/l

RT: 10.60 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VN063537.D

Acq: 22 Sep 2020 16:56

Instrument :

MSVOA_N

ClientSampleId :

RE131D2-20200916DL

Tot Ion:164 Resp: 7567

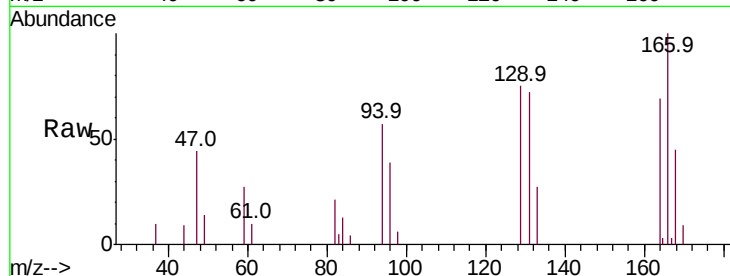
Ion Ratio Lower Upper

164 100

166 143.9 103.4 155.0

129 108.6 81.8 122.6

131 103.2 78.2 117.4

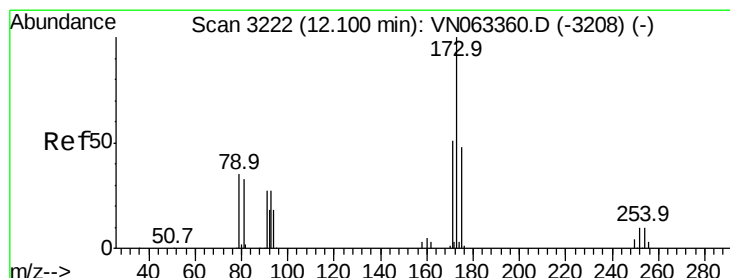
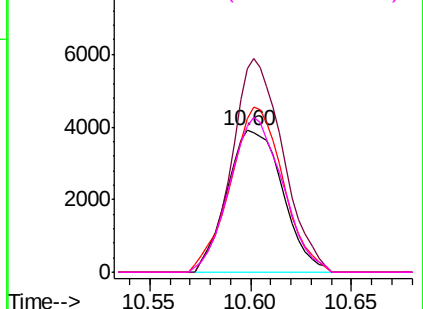
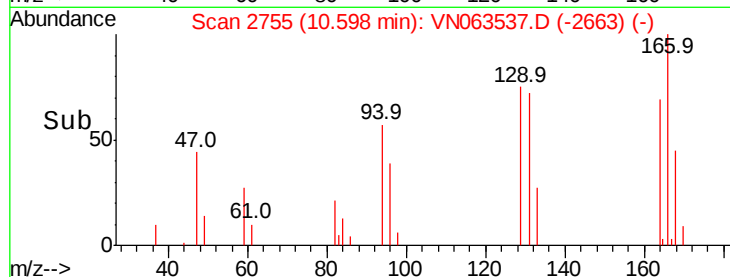


Abundance Ion 163.80 (163.50 to 164.50): V

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: 0.368 ug/l

RT: 12.38 min Scan# 3310

Delta R.T. 0.28 min

Lab File: VN063537.D

Acq: 22 Sep 2020 16:56

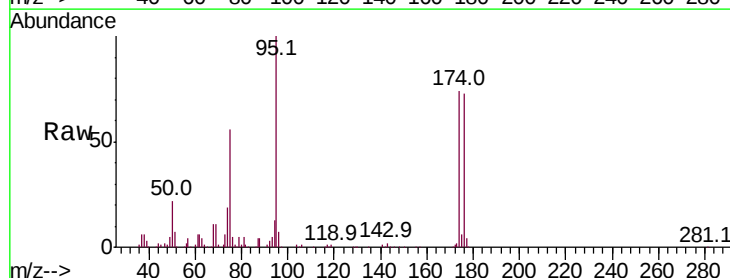
Tgt Ion:173 Resp: 811

Ion Ratio Lower Upper

173 100

175 1074.4 24.0 72.0#

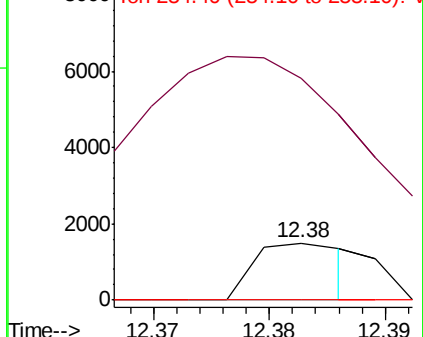
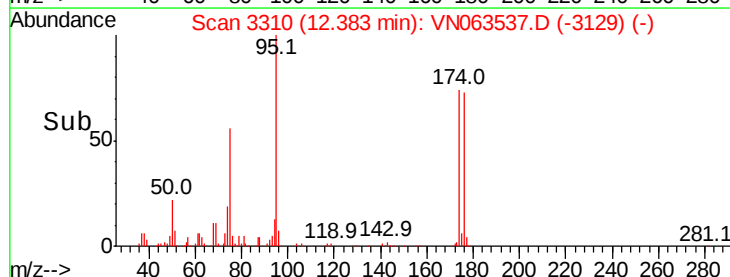
254 0.0 0.0 0.0

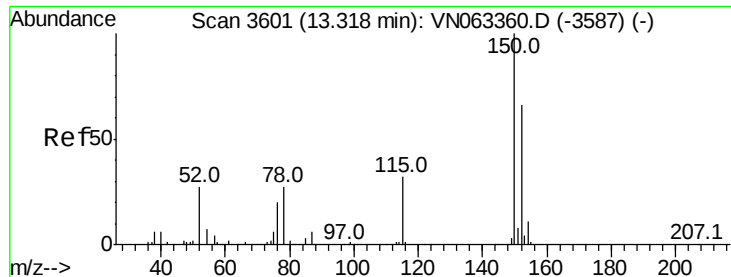


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN063537.D

Acq: 22 Sep 2020 16:56

Instrument :

MSVOA_N

ClientSampleId :

RE131D2-20200916DL

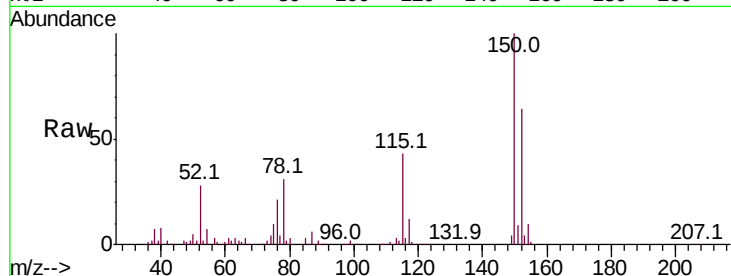
Tot Ion:152 Resp: 172923

Ion Ratio Lower Upper

152 100

115 63.0 32.2 96.6

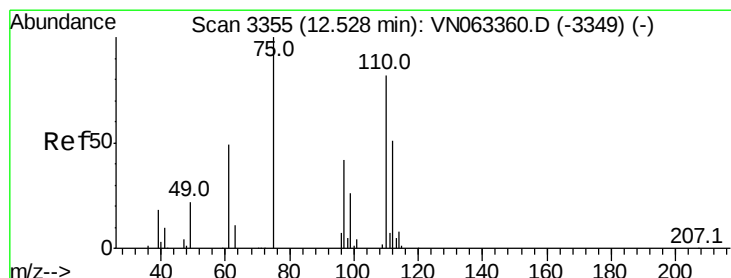
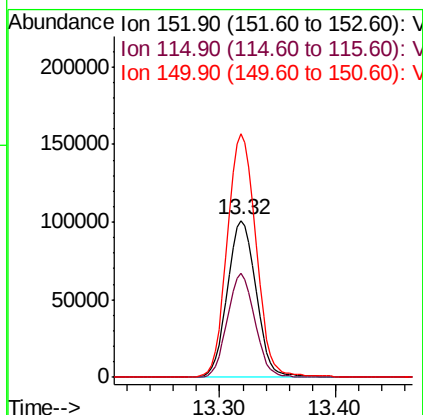
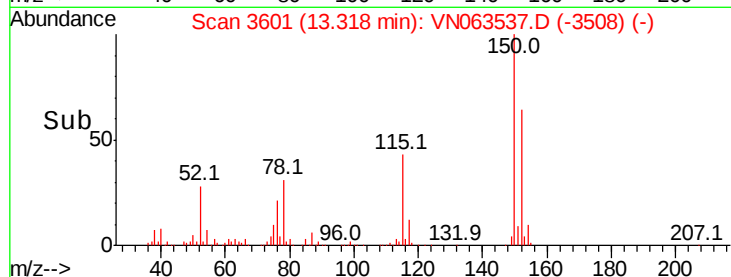
150 156.1 0.0 343.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 25.719 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063537.D

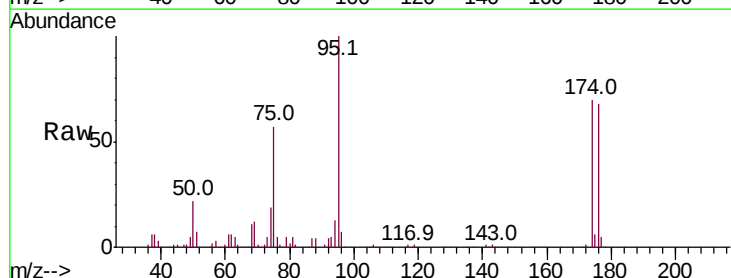
Acq: 22 Sep 2020 16:56

Tgt Ion: 75 Resp: 110078

Ion Ratio Lower Upper

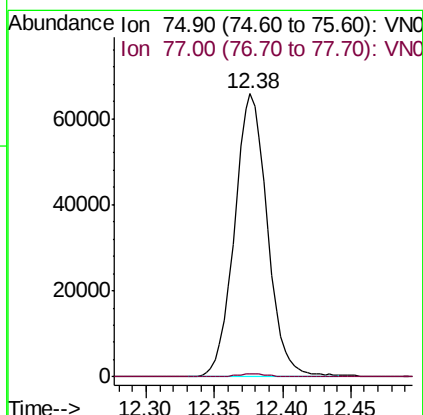
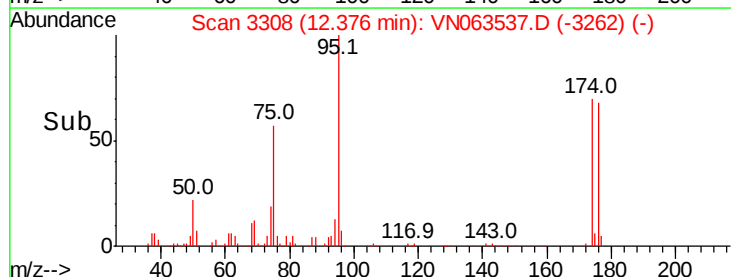
75 100

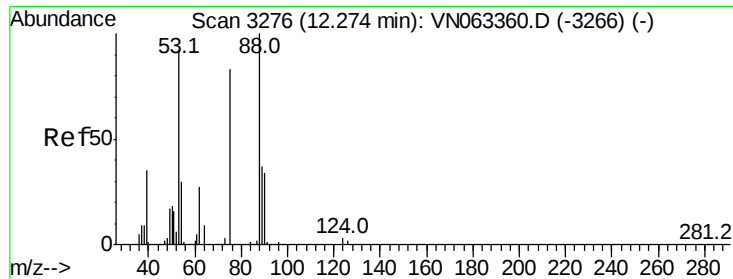
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 70.511 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063537.D

Acq: 22 Sep 2020 16:56

Instrument :

MSVOA_N

ClientSampleId :

RE131D2-20200916DL

Tot Ion: 75 Resp: 110078

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

