

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092320\
 Data File : VN063597.D
 Acq On : 23 Sep 2020 18:30
 Operator : JC/MD
 Sample : L4083-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE120D2-20200916

Quant Time: Sep 24 02:37:19 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	207543	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	375631	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	393084	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	163665	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	176754	50.03	ug/l	0.00
Spiked Amount			Recovery	=	100.06%	
35) Dibromofluoromethane	7.55	113	128822	49.54	ug/l	0.00
Spiked Amount			Recovery	=	99.08%	
50) Toluene-d8	10.06	98	495582	50.68	ug/l	0.00
Spiked Amount			Recovery	=	101.36%	
62) 4-Bromofluorobenzene	12.38	95	191441	53.41	ug/l	0.00
Spiked Amount			Recovery	=	106.82%	

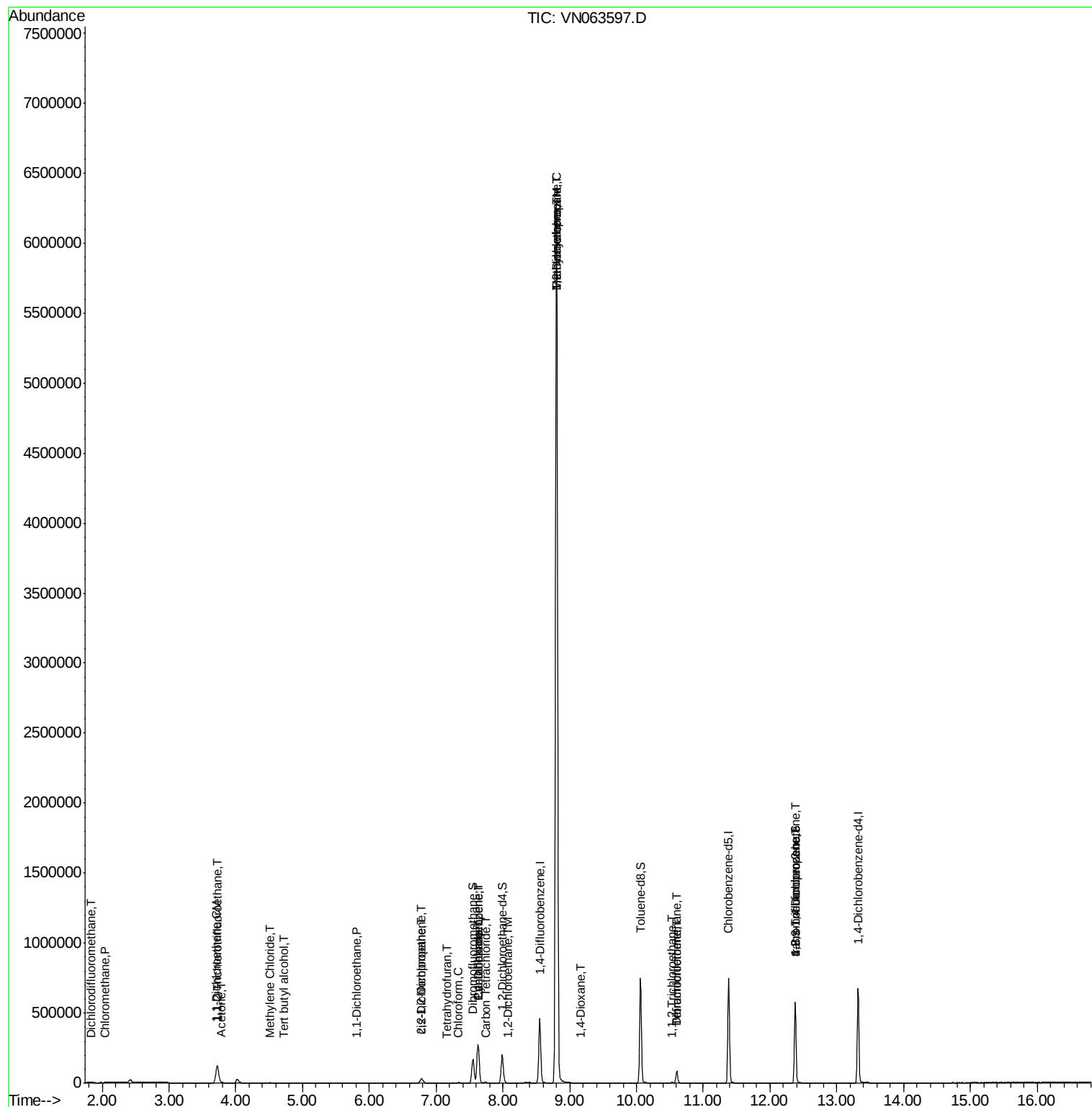
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	1327	0.564	ug/l	86
3) Chloromethane	2.04	50	2394	0.770	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.73	101	70974	30.694	ug/l	98
11) Tert butyl alcohol	4.73	59	239	0.488	ug/l #	72
12) 1,1-Dichloroethene	3.70	96	6170	2.634	ug/l	94
16) Acetone	3.78	43	3503	3.085	ug/l	96
20) Methylene Chloride	4.51	84	1371	0.477	ug/l #	74
24) 1,1-Dichloroethane	5.80	63	1975	0.383	ug/l #	84
26) 2,2-Dichloropropane	6.77	77	1014	0.223	ug/l	78
27) cis-1,2-Dichloroethene	6.78	96	10543	3.590	ug/l	88
29) Tetrahydrofuran	7.16	42	358	0.300	ug/l #	50
30) Chloroform	7.32	83	1885	0.364	ug/l #	82
31) Cyclohexane	7.63	56	5912	1.212	ug/l #	27
36) 1,1-Dichloropropene	7.62	75	19346	4.834	ug/l #	50
38) Carbon Tetrachloride	7.73	117	3155	0.772	ug/l #	95
39) Methylcyclohexane	8.80	83	29076	6.695	ug/l #	1
42) 1,2-Dichloroethane	8.08	62	1295	0.282	ug/l #	78
44) Trichloroethene	8.80	130	2088126	753.626	ug/l	100
45) 1,2-Dichloropropane	8.80	63	5900	1.896	ug/l #	1
49) 1,4-Dioxane	9.16	88	811	16.379	ug/l #	91
55) 1,1,2-Trichloroethane	10.53	97	1157	0.424	ug/l #	80
60) Dibromochloromethane	10.60	129	18410	5.973	ug/l #	10
64) Tetrachloroethene	10.60	164	17829	6.661	ug/l	95
76) 1,2,3-Trichloropropane	12.38	75	108632	26.817	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	108632	73.521	ug/l #	7

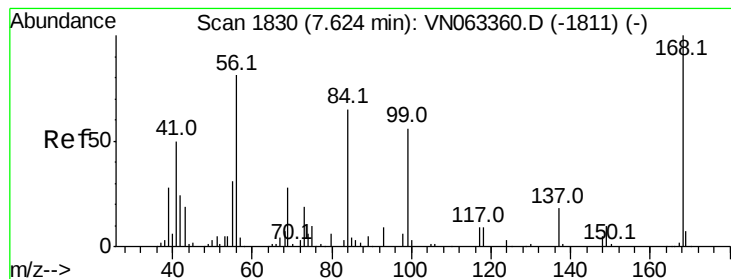
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN063597.D

Acq: 23 Sep 2020 18:30

Instrument :

MSVOA_N

ClientSampleId :

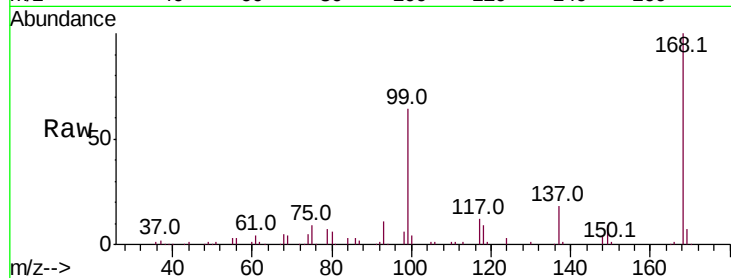
RE120D2-20200916

Tot Ion:168 Resp: 207543

Ion Ratio Lower Upper

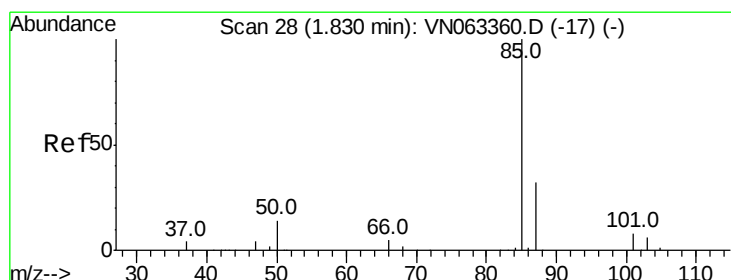
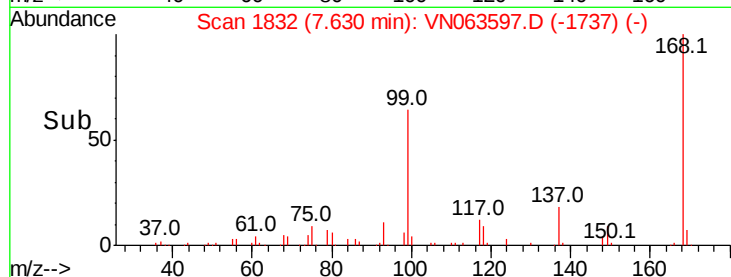
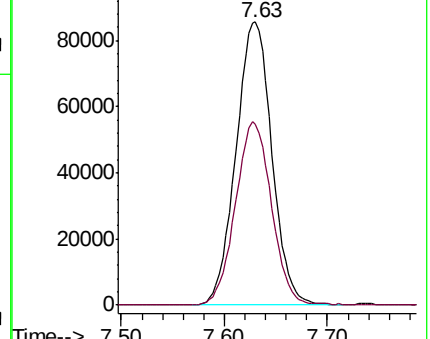
168 100

99 63.8 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#2

Dichlorodifluoromethane

Concen: 0.564 ug/l

RT: 1.83 min Scan# 29

Delta R.T. 0.00 min

Lab File: VN063597.D

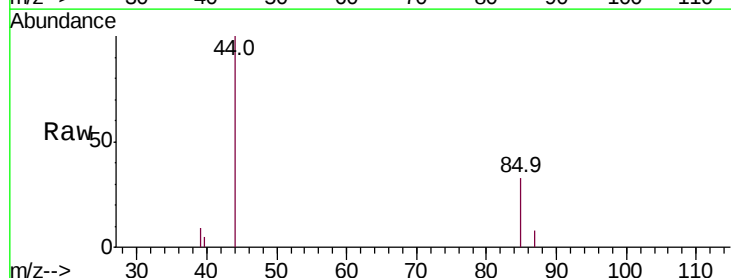
Acq: 23 Sep 2020 18:30

Tgt Ion: 85 Resp: 1327

Ion Ratio Lower Upper

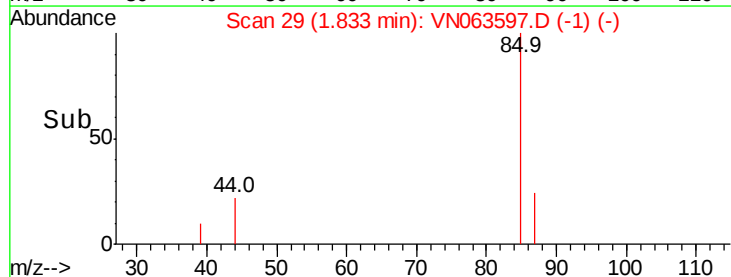
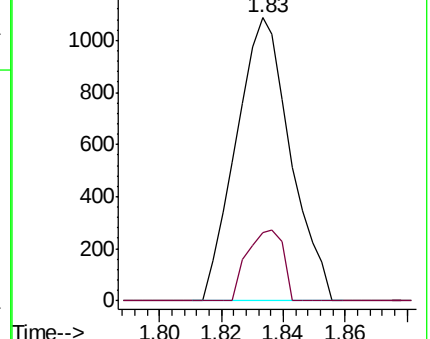
85 100

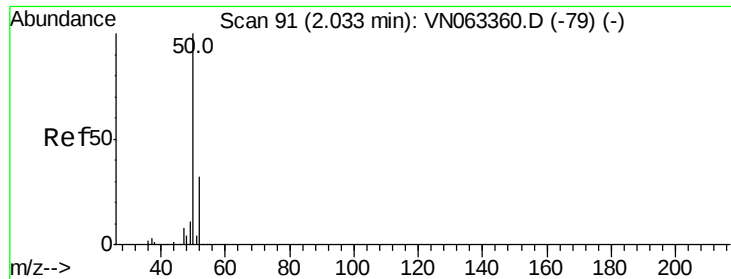
87 23.9 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0





#3

Chloromethane

Concen: 0.770 ug/l

RT: 2.04 min Scan# 93

Delta R.T. 0.01 min

Lab File: VN063597.D

Acq: 23 Sep 2020 18:30

Instrument :

MSVOA_N

ClientSampleId :

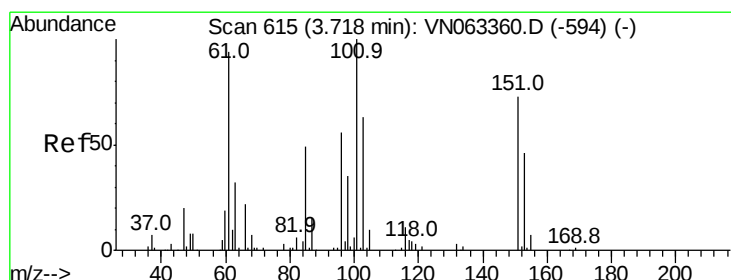
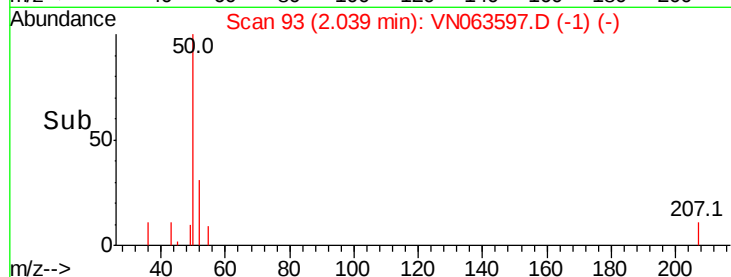
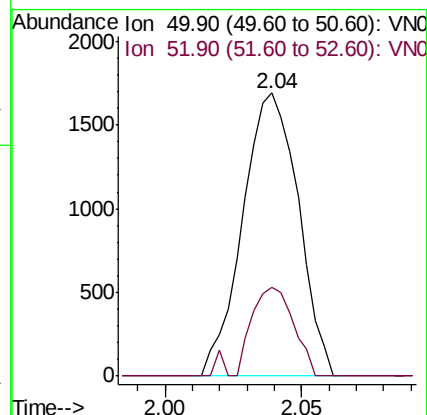
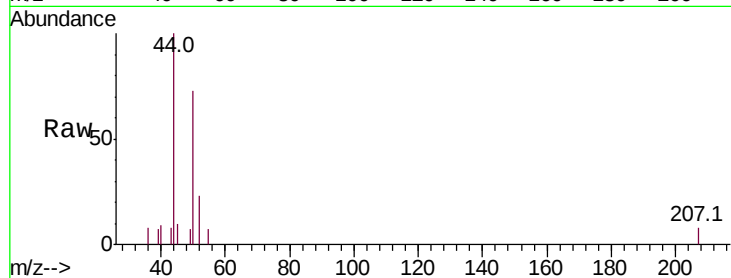
RE120D2-20200916

Tot Ion: 50 Resp: 2394

Ion Ratio Lower Upper

50 100

52 31.4 25.9 38.9



#9

1,1,2-Trichlorotrifluoroethane

Concen: 30.694 ug/l

RT: 3.73 min Scan# 618

Delta R.T. 0.01 min

Lab File: VN063597.D

Acq: 23 Sep 2020 18:30

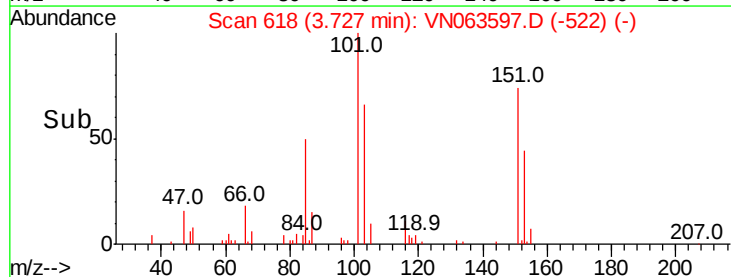
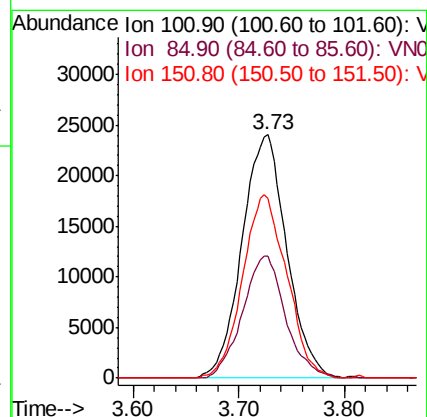
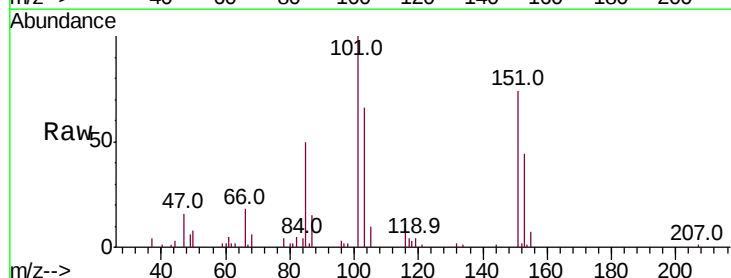
Tgt Ion: 101 Resp: 70974

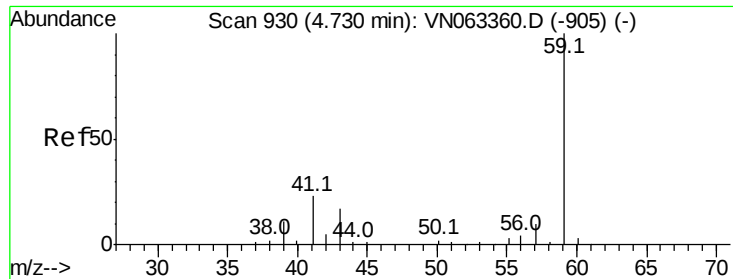
Ion Ratio Lower Upper

101 100

85 48.2 37.7 56.5

151 74.1 57.7 86.5

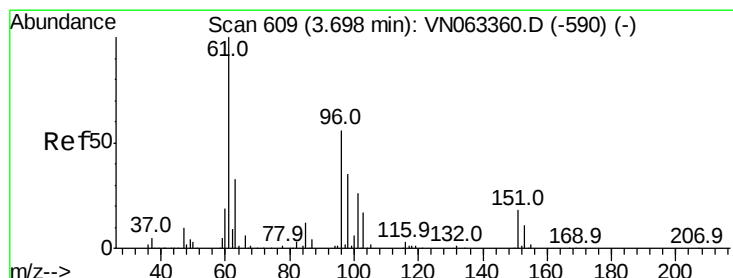
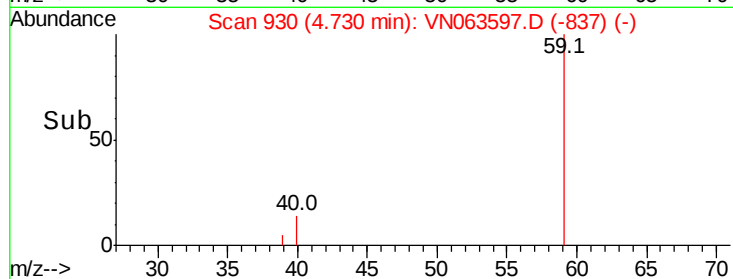
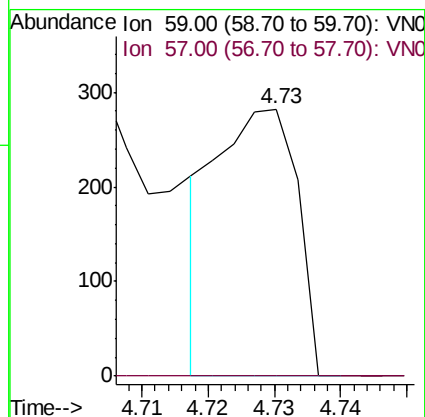
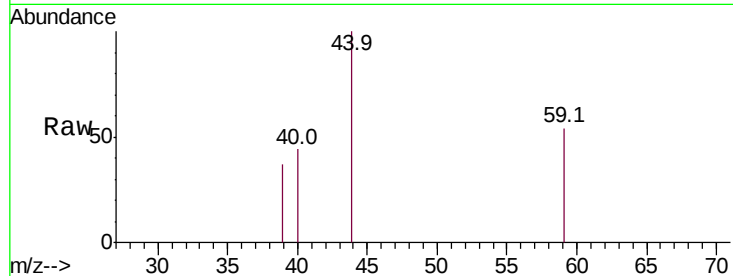




#11
Tert butyl alcohol
Concen: 0.488 ug/l
RT: 4.73 min Scan# 930
Delta R.T. -0.00 min
Lab File: VN063597.D
Acq: 23 Sep 2020 18:30

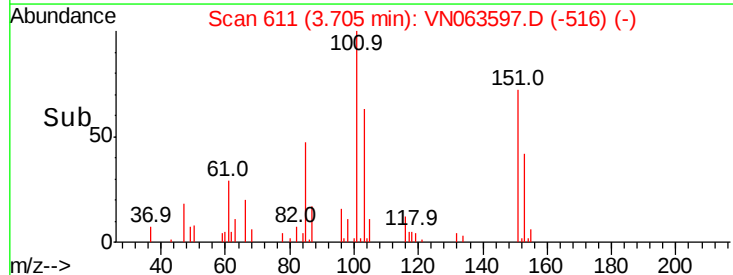
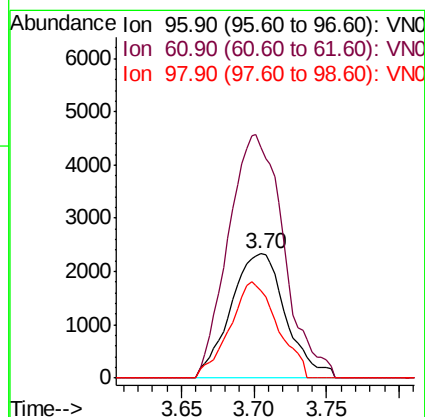
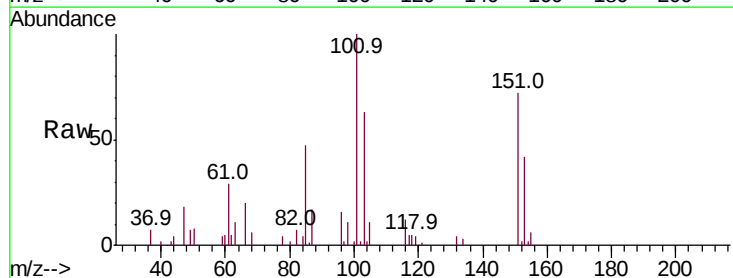
Instrument :
MSVOA_N
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RE120D2-20200916

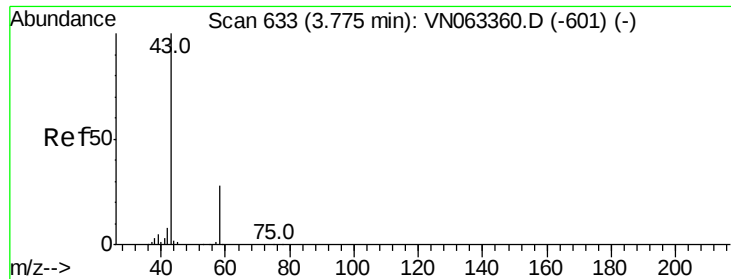
Tot Ion: 59 Resp: 239
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#12
1,1-Dichloroethene
Concen: 2.634 ug/l
RT: 3.70 min Scan# 611
Delta R.T. 0.01 min
Lab File: VN063597.D
Acq: 23 Sep 2020 18:30

Tgt Ion: 96 Resp: 6170
Ion Ratio Lower Upper
96 100
61 185.7 143.4 215.2
98 70.5 50.6 76.0





#16

Acetone

Concen: 3.085 ug/l

RT: 3.78 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN063597.D

Acq: 23 Sep 2020 18:30

Instrument :

MSVOA_N

ClientSampleId :

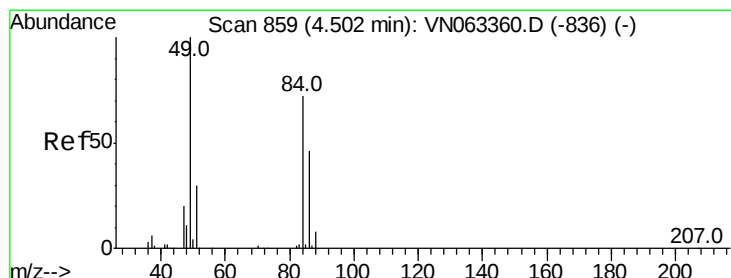
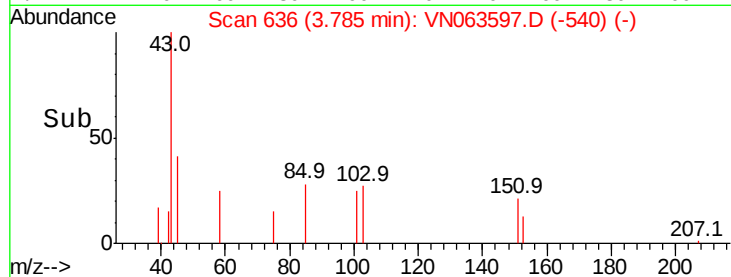
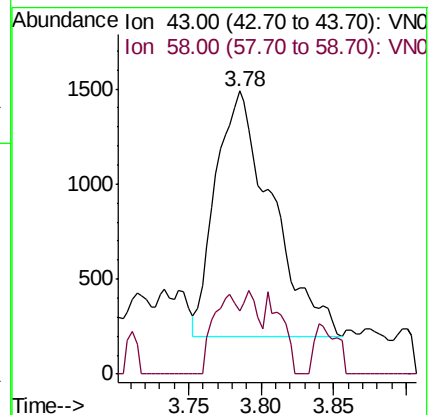
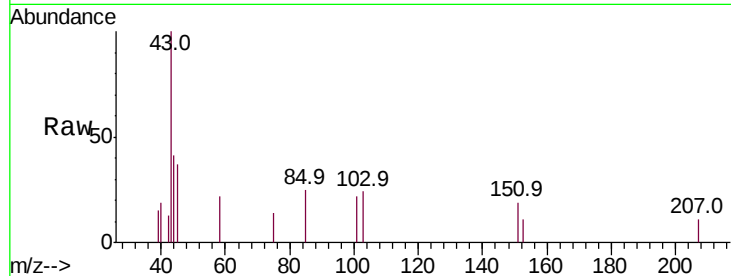
RE120D2-20200916

Tot Ion: 43 Resp: 3503

Ion Ratio Lower Upper

43 100

58 25.7 22.3 33.5



#20

Methylene Chloride

Concen: 0.477 ug/l

RT: 4.51 min Scan# 862

Delta R.T. 0.01 min

Lab File: VN063597.D

Acq: 23 Sep 2020 18:30

Tgt Ion: 84 Resp: 1371

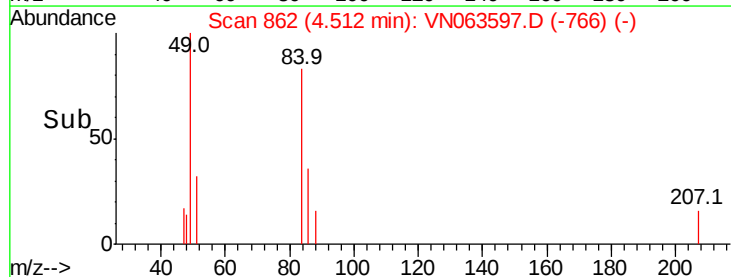
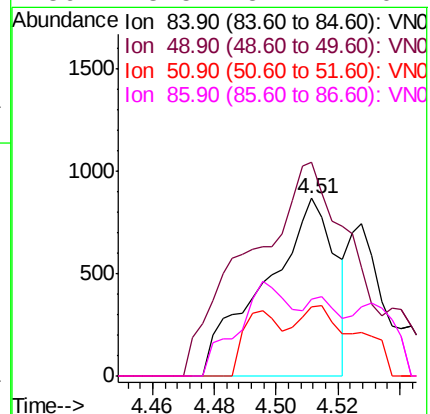
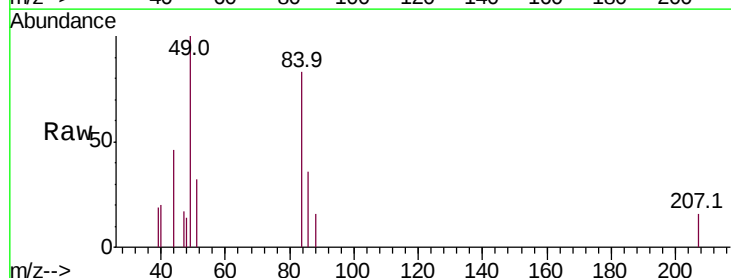
Ion Ratio Lower Upper

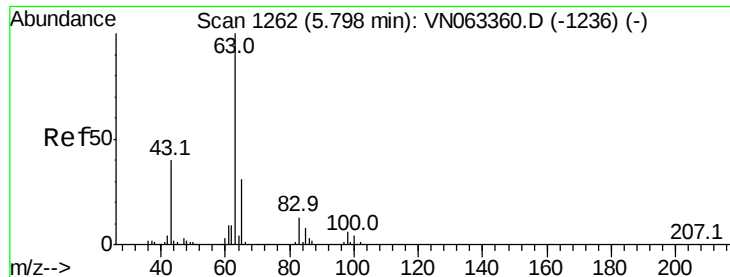
84 100

49 98.3 110.7 166.1#

51 39.0 32.9 49.3

86 43.5 51.1 76.7#





#24

1,1-Dichloroethane

Concen: 0.383 ug/l

RT: 5.80 min Scan# 1263

Delta R.T. 0.00 min

Lab File: VN063597.D

Acq: 23 Sep 2020 18:30

Instrument :

MSVOA_N

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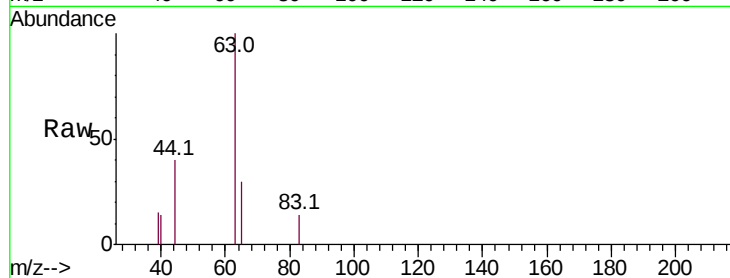
Tot Ion: 63 Resp: 1975

Ion Ratio Lower Upper

63 100

98 0.0 2.9 8.8#

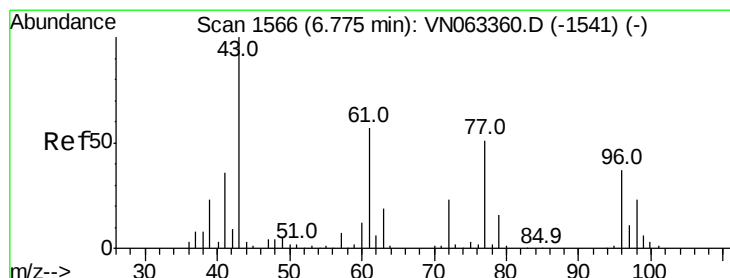
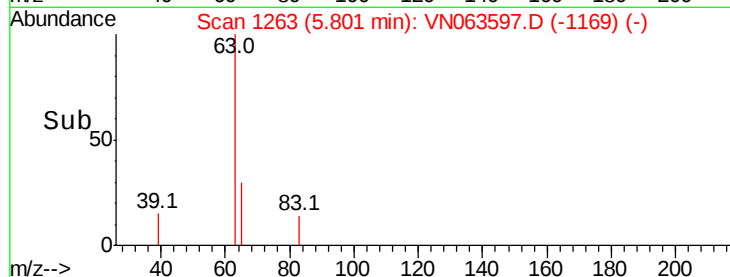
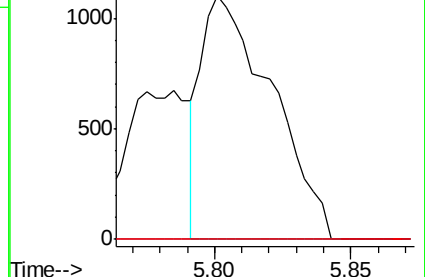
100 0.0 2.1 6.3#



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



#26

2,2-Dichloropropane

Concen: 0.223 ug/l

RT: 6.77 min Scan# 1563

Delta R.T. -0.01 min

Lab File: VN063597.D

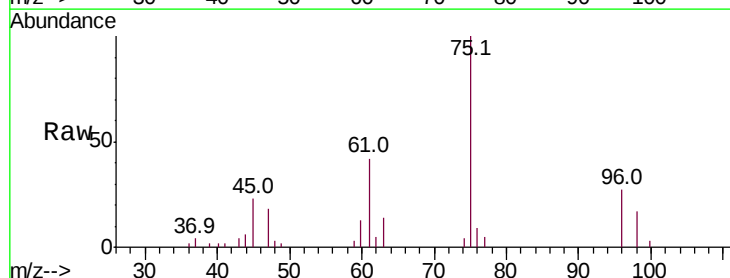
Acq: 23 Sep 2020 18:30

Tgt Ion: 77 Resp: 1014

Ion Ratio Lower Upper

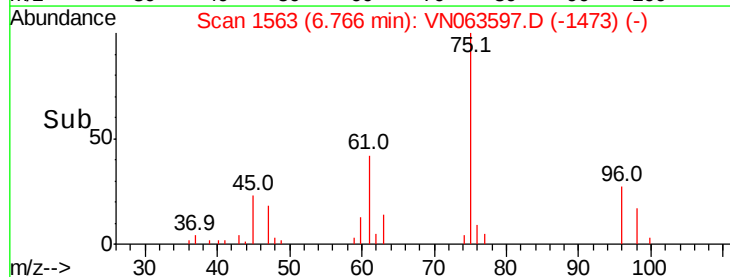
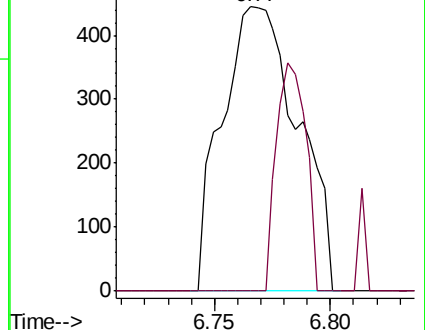
77 100

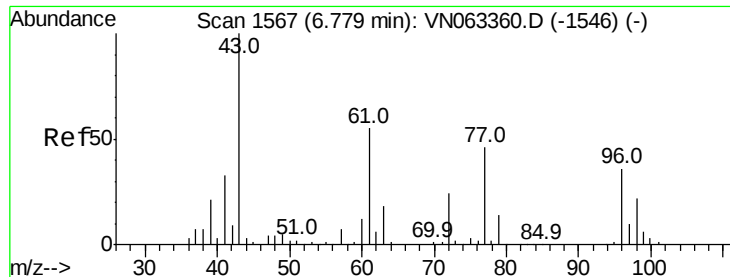
97 31.4 10.5 31.6



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0

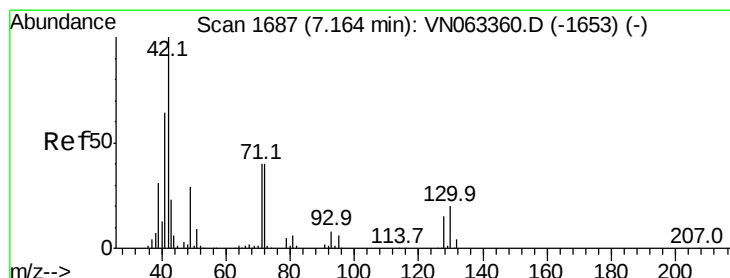
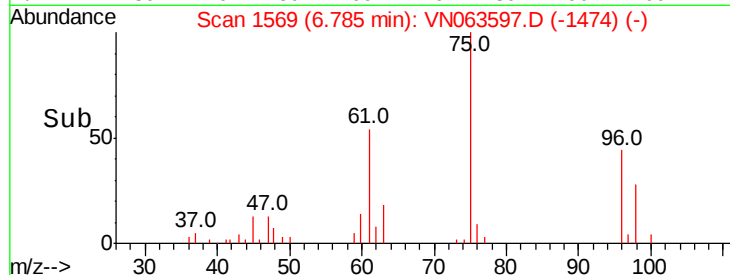
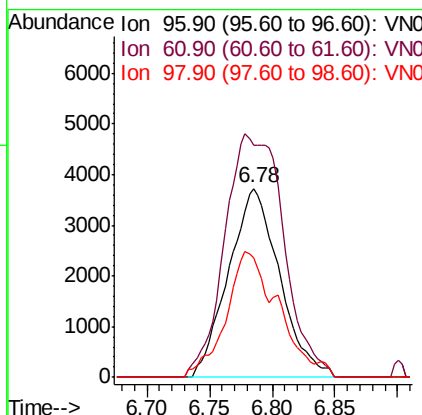
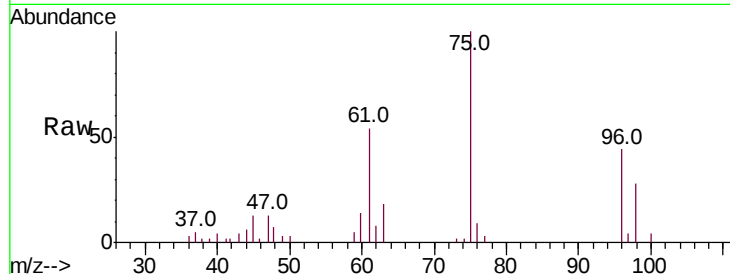




#27
 cis-1,2-Dichloroethene
 Concen: 3.590 ug/l
 RT: 6.78 min Scan# 1569
 Delta R.T. 0.01 min
 Lab File: VN063597.D
 Acq: 23 Sep 2020 18:30

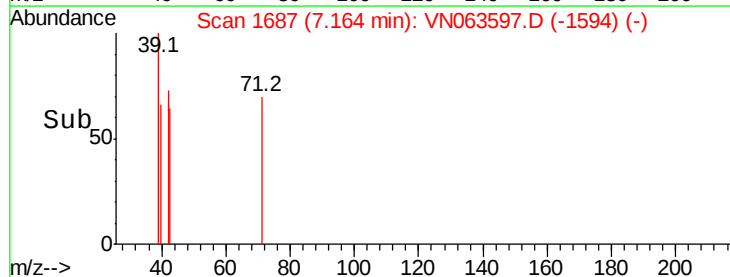
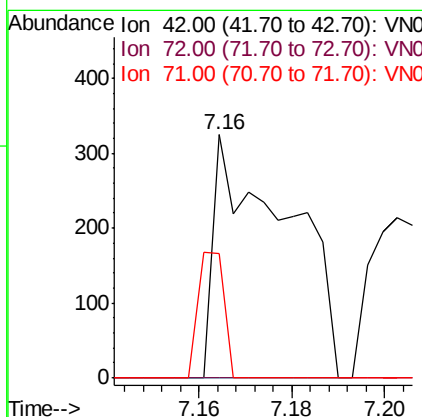
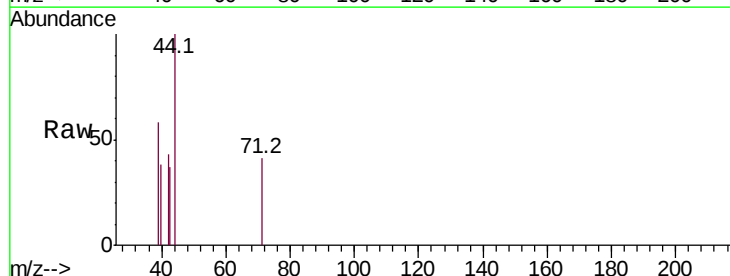
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 RE120D2-20200916

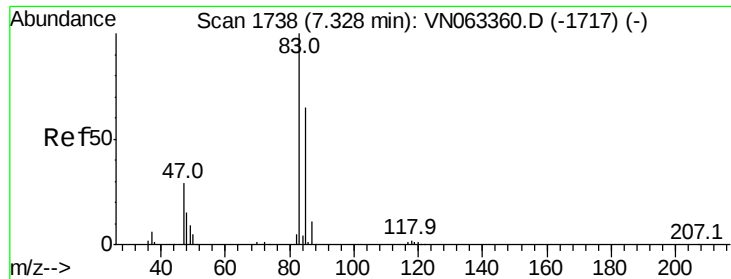
Tot Ion: 96 Resp: 10543
 Ion Ratio Lower Upper
 96 100
 61 148.3 0.0 319.6
 98 49.3 0.0 127.8



#29
 Tetrahydrofuran
 Concen: 0.300 ug/l
 RT: 7.16 min Scan# 1687
 Delta R.T. -0.00 min
 Lab File: VN063597.D
 Acq: 23 Sep 2020 18:30

Tgt Ion: 42 Resp: 358
 Ion Ratio Lower Upper
 42 100
 72 0.0 32.1 48.1#
 71 17.9 31.2 46.8#

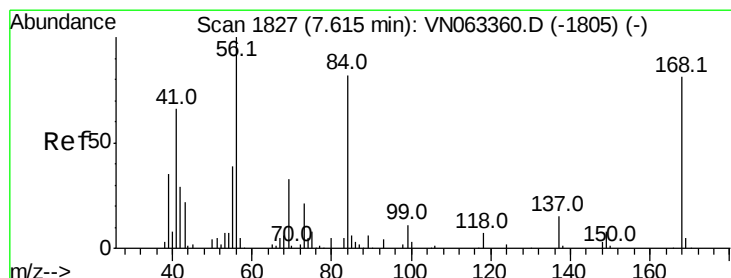
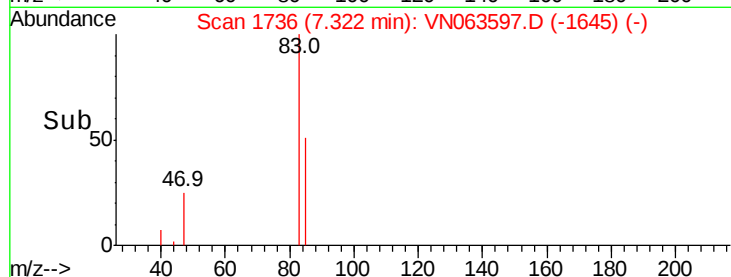
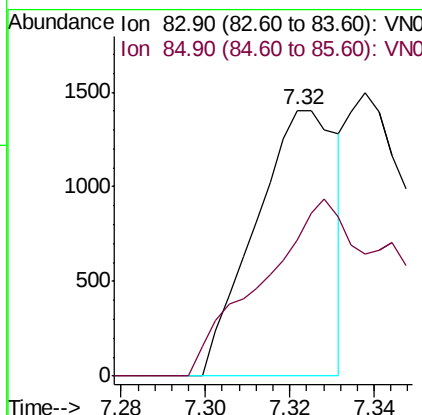
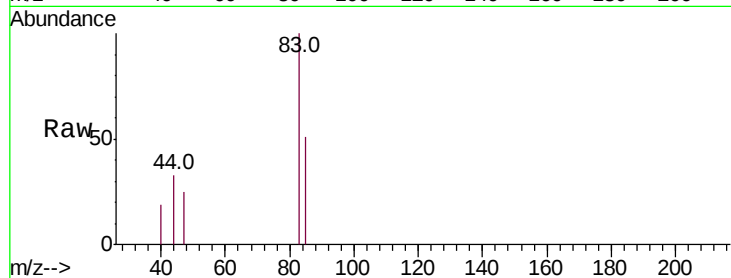




#30
Chloroform
Concen: 0.364 ug/l
RT: 7.32 min Scan# 1736
Delta R.T. -0.01 min
Lab File: VN063597.D
Acq: 23 Sep 2020 18:30

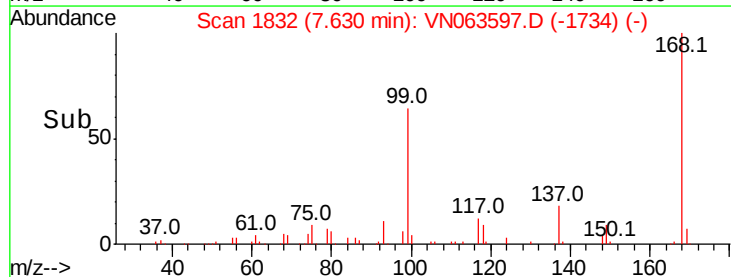
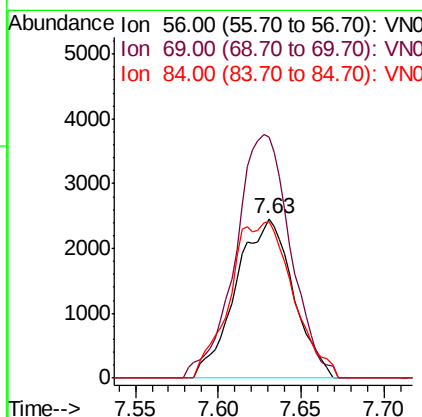
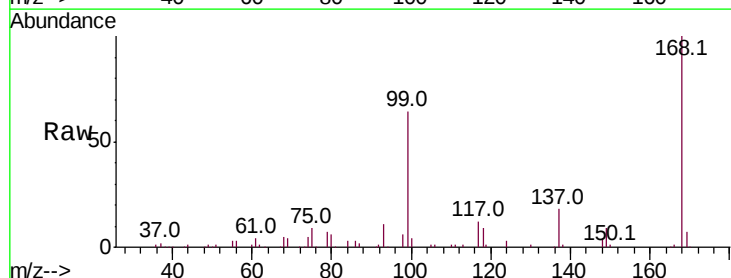
Instrument :
MSVOA_N
ClientSampleId :
RE120D2-20200916

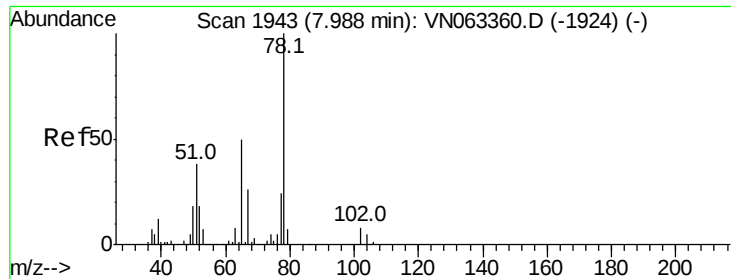
Tot Ion: 83 Resp: 1885
Ion Ratio Lower Upper
83 100
85 51.1 52.1 78.1#



#31
Cyclohexane
Concen: 1.212 ug/l
RT: 7.63 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN063597.D
Acq: 23 Sep 2020 18:30

Tgt Ion: 56 Resp: 5912
Ion Ratio Lower Upper
56 100
69 150.9 26.1 39.1#
84 98.4 65.4 98.2#





#33

1,2-Dichloroethane-d4

Concen: 50.030 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.00 min

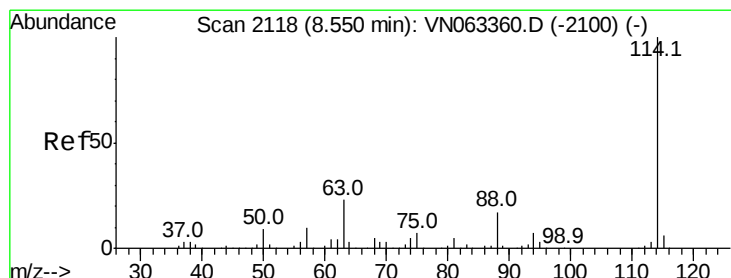
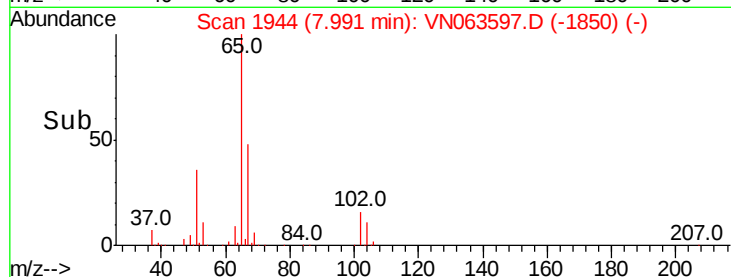
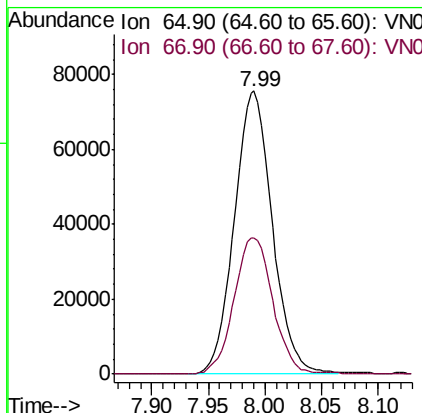
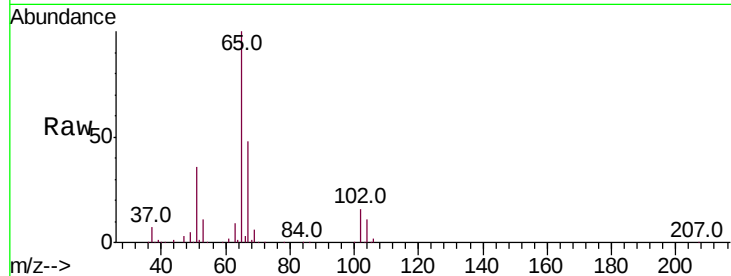
Lab File: VN063597.D

Acq: 23 Sep 2020 18:30

Instrument :
MSVOA_N
ClientSampleId :
RE120D2-20200916

Tot Ion: 65 Resp: 176754

Ion	Ratio	Lower	Upper
65	100		
67	49.4	0.0	104.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2119

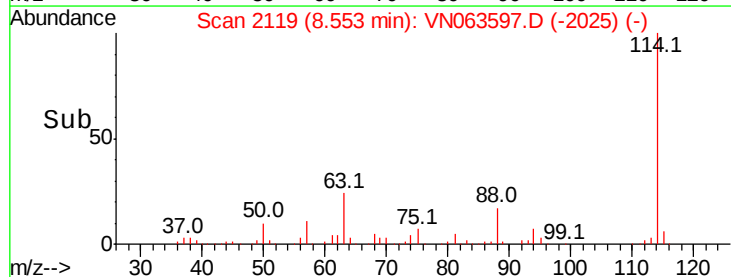
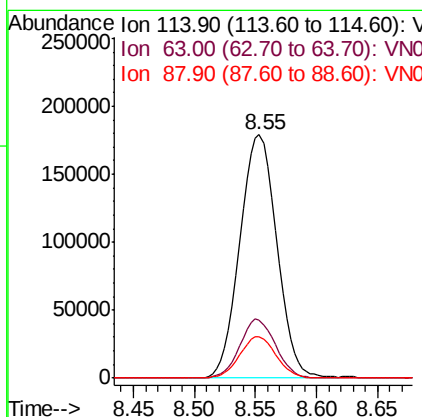
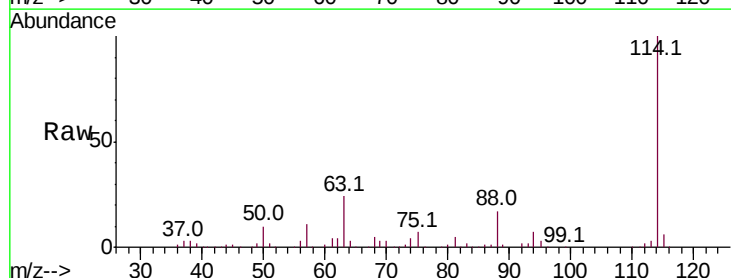
Delta R.T. 0.00 min

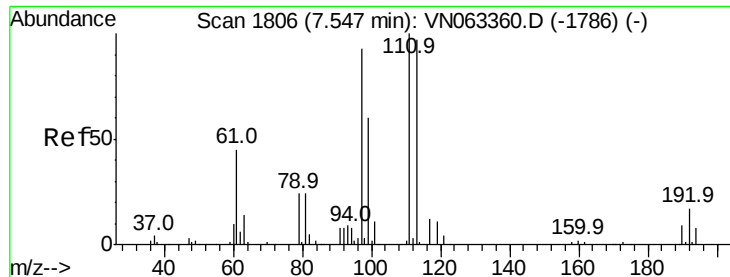
Lab File: VN063597.D

Acq: 23 Sep 2020 18:30

Tgt Ion: 114 Resp: 375631

Ion	Ratio	Lower	Upper
114	100		
63	24.1	0.0	46.4
88	17.1	0.0	33.2

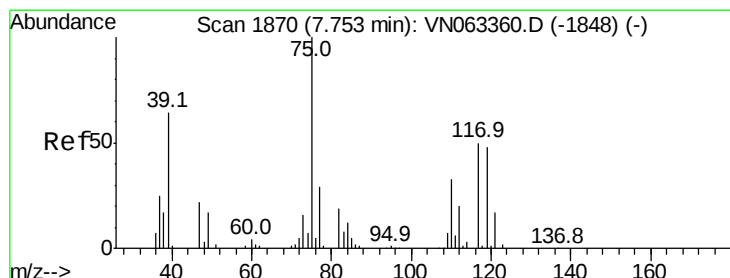
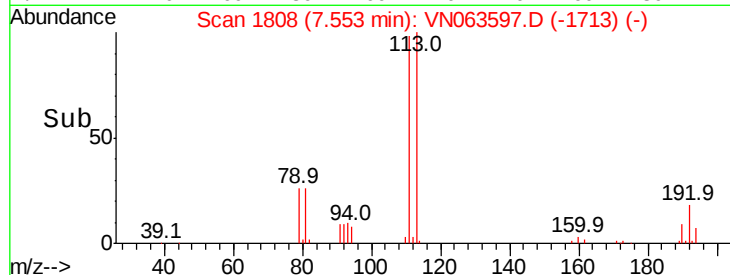
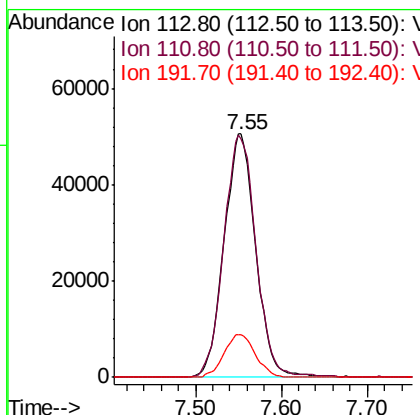
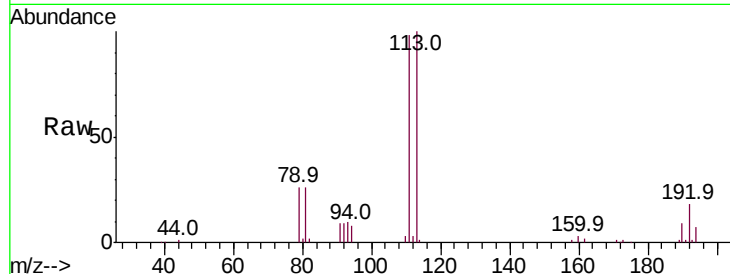




#35
 Dibromofluoromethane
 Concen: 49.539 ug/l
 RT: 7.55 min Scan# 1808
 Delta R.T. 0.01 min
 Lab File: VN063597.D
 Acq: 23 Sep 2020 18:30

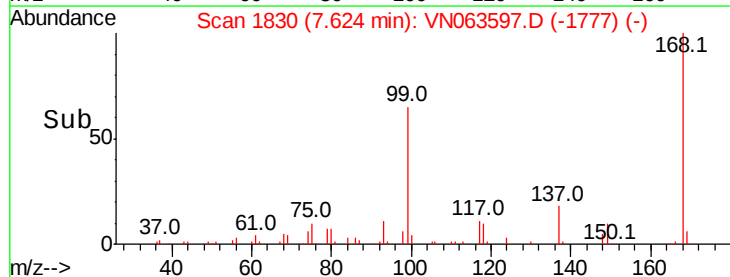
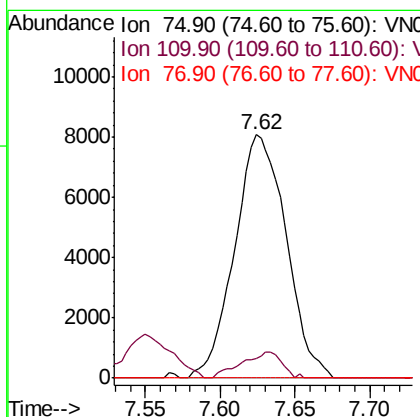
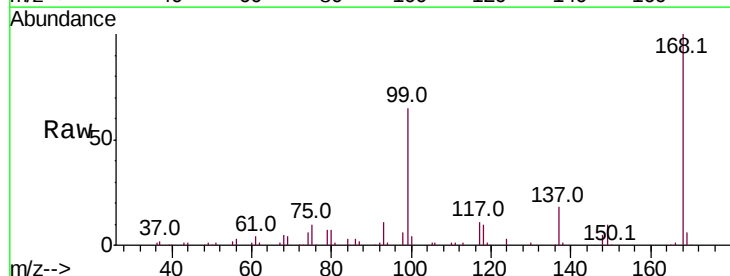
Instrument :
 MSVOA_N
 ClientSampleId :
 RE120D2-20200916

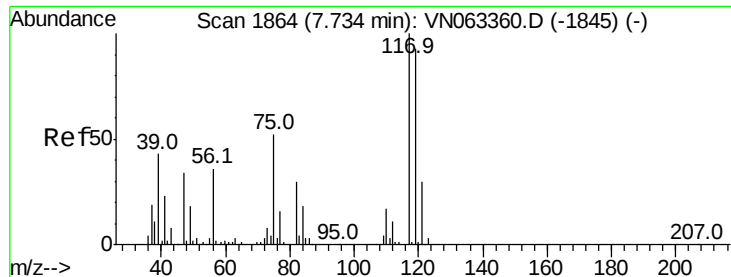
Tot Ion	Ratio	Lower	Upper
113	100		
111	100.5	82.9	124.3
192	17.4	13.9	20.9



#36
 1,1-Dichloropropene
 Concen: 4.834 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063597.D
 Acq: 23 Sep 2020 18:30

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	16.5	49.5#
77	0.0	24.6	36.8#

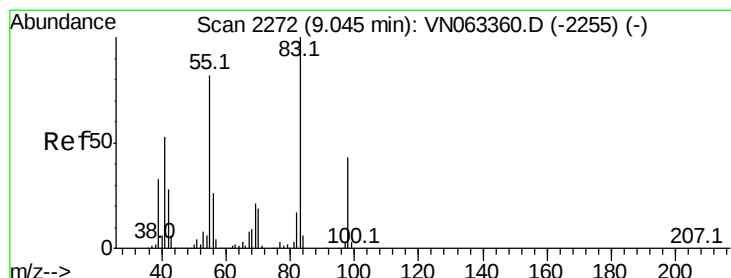
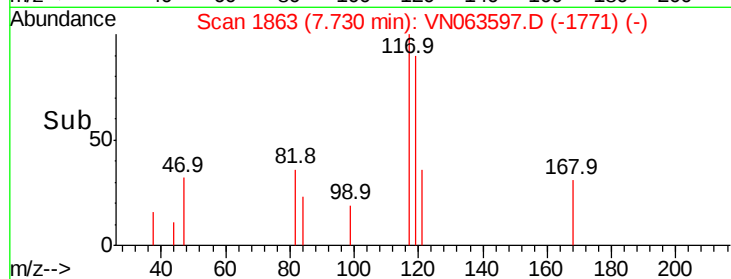
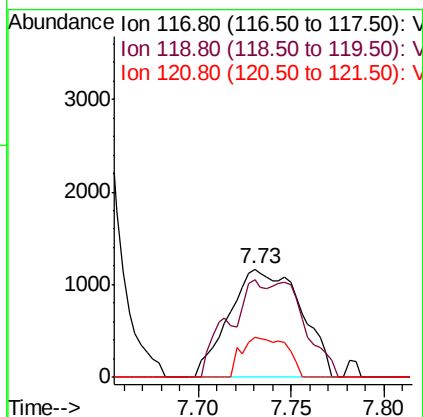
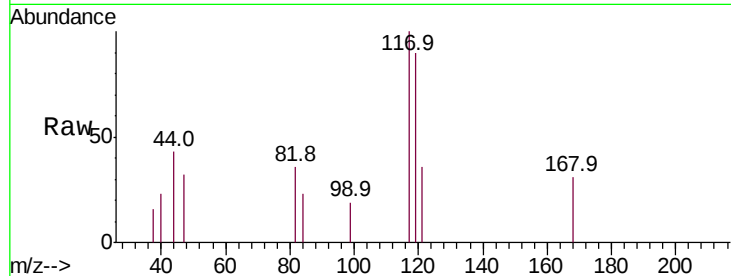




#38
Carbon Tetrachloride
Concen: 0.772 ug/l
RT: 7.73 min Scan# 1863
Delta R.T. -0.00 min
Lab File: VN063597.D
Acq: 23 Sep 2020 18:30

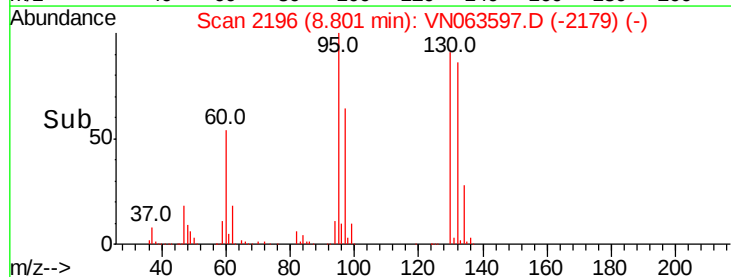
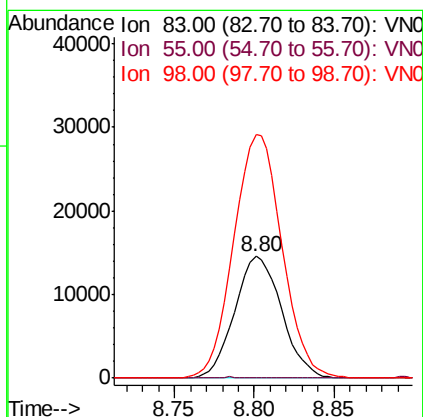
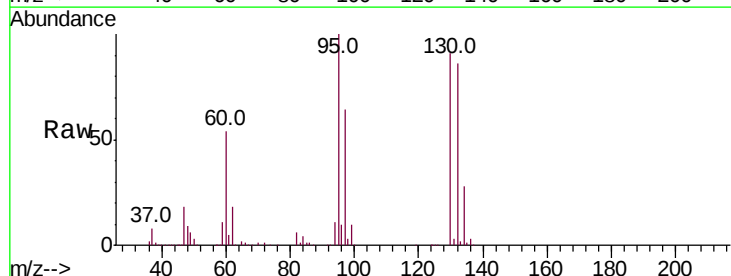
Instrument :
MSVOA_N
ClientSampleId :
RE120D2-20200916

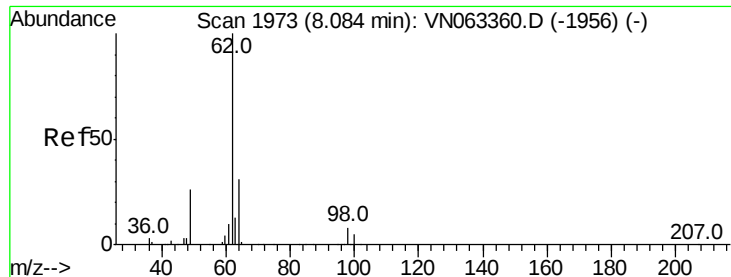
Tot Ion:117 Resp: 3155
Ion Ratio Lower Upper
117 100
119 90.3 74.5 111.7
121 36.5 24.1 36.1#



#39
Methylcyclohexane
Concen: 6.695 ug/l
RT: 8.80 min Scan# 2196
Delta R.T. -0.24 min
Lab File: VN063597.D
Acq: 23 Sep 2020 18:30

Tgt Ion: 83 Resp: 29076
Ion Ratio Lower Upper
83 100
55 0.0 65.5 98.3#
98 198.2 34.2 51.4#





#42

1,2-Dichloroethane

Concen: 0.282 ug/l

RT: 8.08 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VN063597.D

Acq: 23 Sep 2020 18:30

Instrument :

MSVOA_N

ClientSampleId :

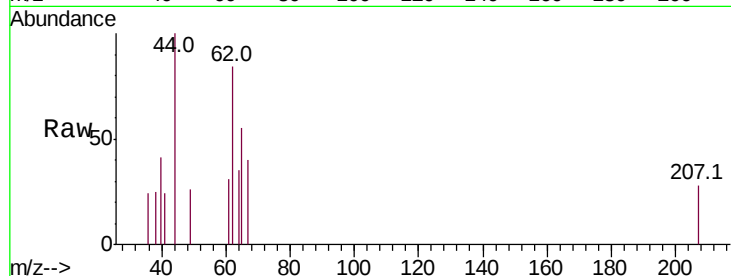
RE120D2-20200916

Tot Ion: 62 Resp: 1295

Ion Ratio Lower Upper

62 100

98 0.0 0.0 15.6



Abundance Ion 61.90 (61.60 to 62.60): VN063360.D (-1956) (-)

Ion 97.90 (97.60 to 98.60): VN063360.D (-1956) (-)

8.08

600

500

400

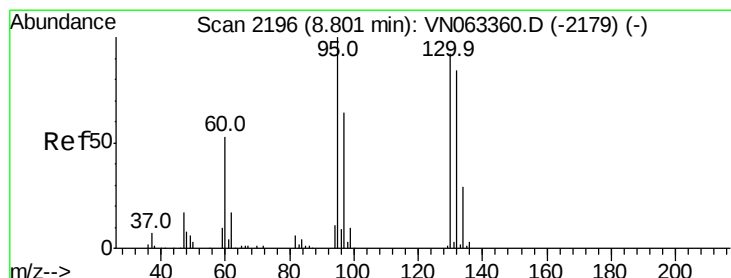
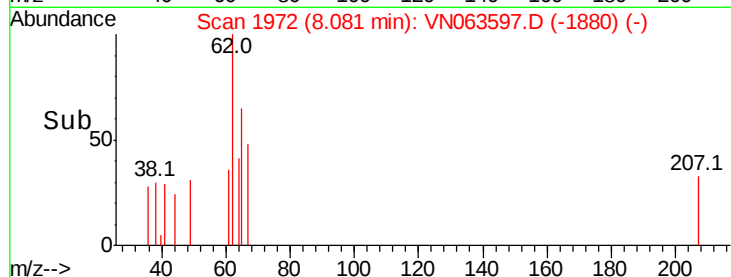
300

200

100

0

Time-->



#44

Trichloroethene

Concen: 753.626 ug/l

RT: 8.80 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN063597.D

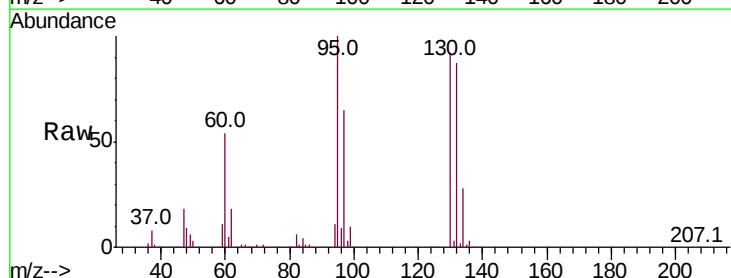
Acq: 23 Sep 2020 18:30

Tgt Ion:130 Resp: 2088126

Ion Ratio Lower Upper

130 100

95 108.7 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) (-)

8.80

1200000

1000000

800000

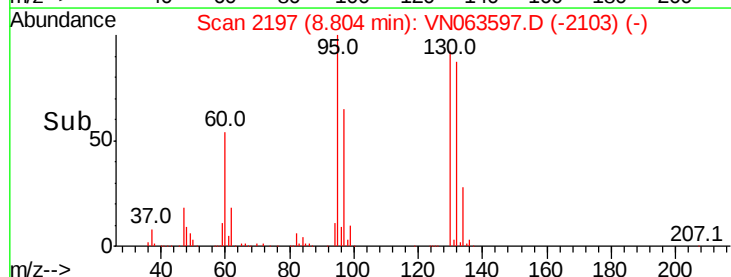
600000

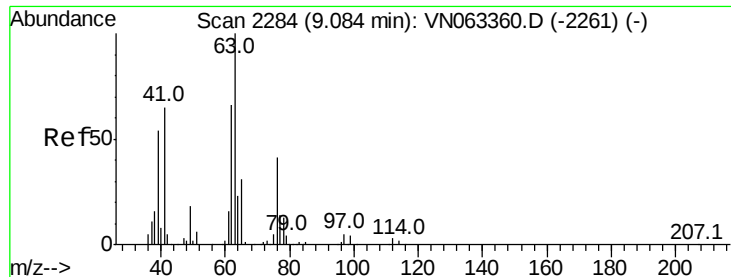
400000

200000

0

Time-->

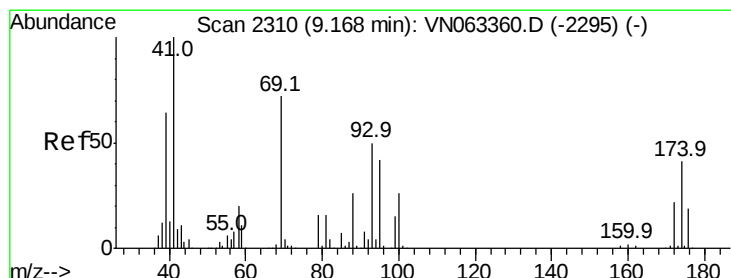
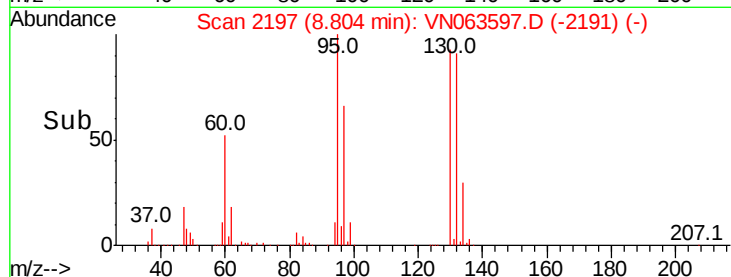
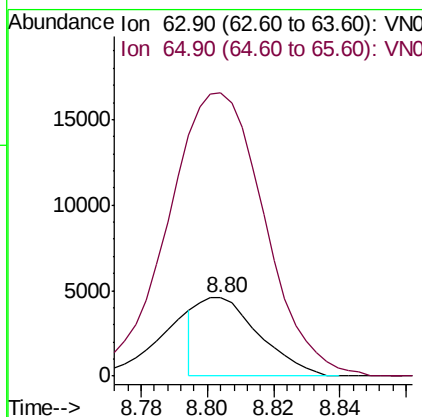
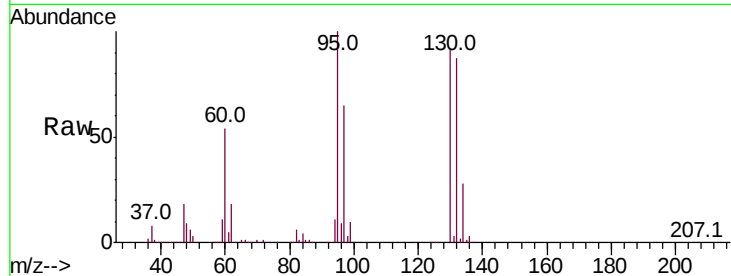




#45
 1,2-Dichloropropane
 Concen: 1.896 ug/l
 RT: 8.80 min Scan# 2197
 Delta R.T. -0.28 min
 Lab File: VN063597.D
 Acq: 23 Sep 2020 18:30

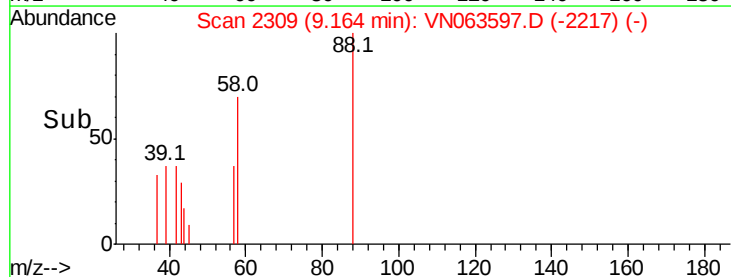
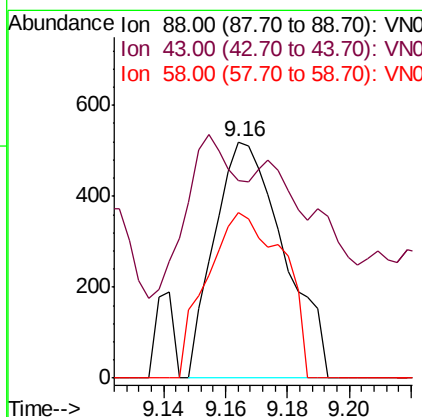
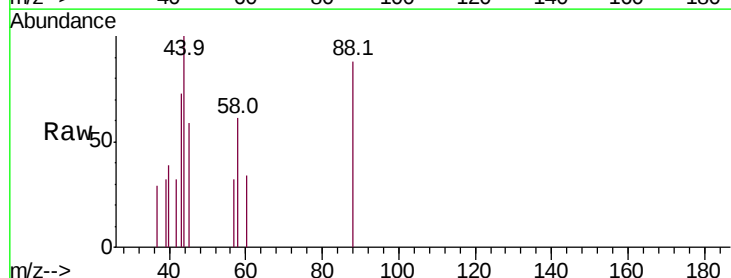
Instrument :
 MSVOA_N
 ClientSampleId :
 RE120D2-20200916

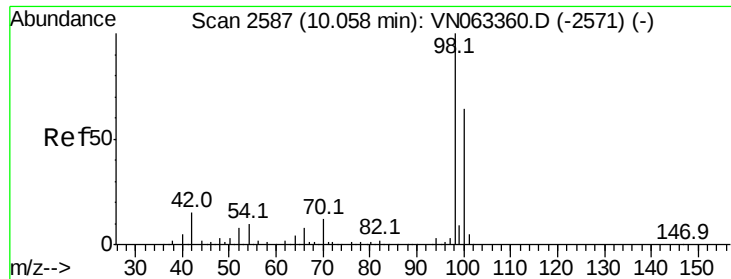
Tot Ion: 63 Resp: 5900
 Ion Ratio Lower Upper
 63 100
 65 349.9 25.0 37.6#



#49
 1,4-Dioxane
 Concen: 16.379 ug/l
 RT: 9.16 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN063597.D
 Acq: 23 Sep 2020 18:30

Tgt Ion: 88 Resp: 811
 Ion Ratio Lower Upper
 88 100
 43 53.9 32.6 49.0#
 58 77.1 60.0 90.0





#50

Toluene-d8

Concen: 50.683 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063597.D

Acq: 23 Sep 2020 18:30

Instrument :

MSVOA_N

ClientSampleId :

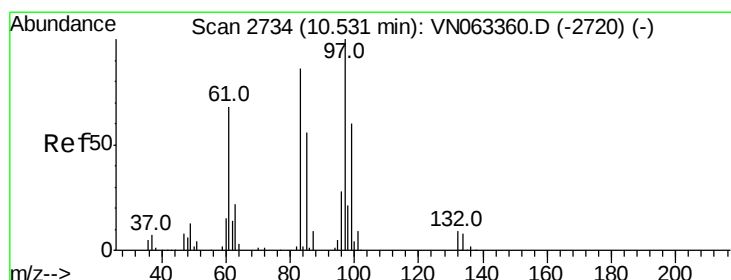
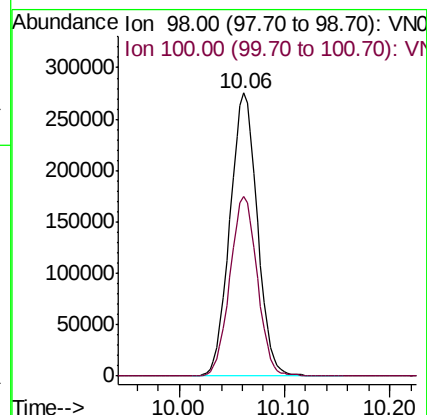
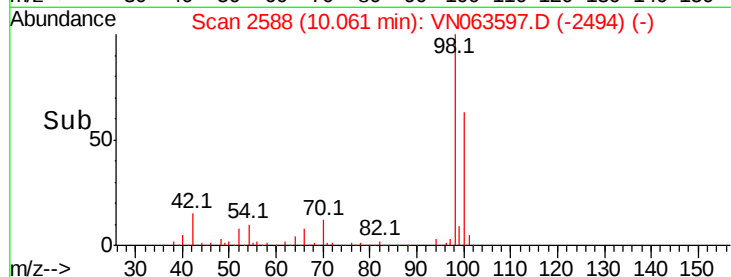
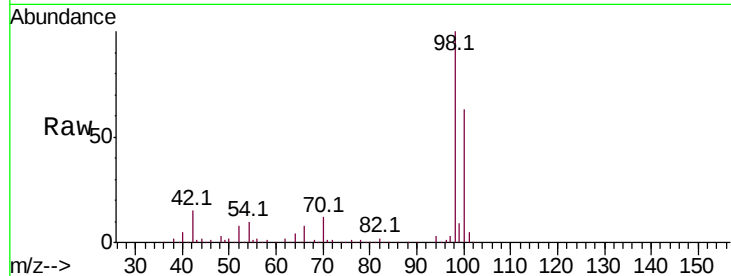
RE120D2-20200916

Tot Ion: 98 Resp: 495582

Ion Ratio Lower Upper

98 100

100 63.3 50.7 76.1



#55

1,1,2-Trichloroethane

Concen: 0.424 ug/l

RT: 10.53 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VN063597.D

Acq: 23 Sep 2020 18:30

Tgt Ion: 97 Resp: 1157

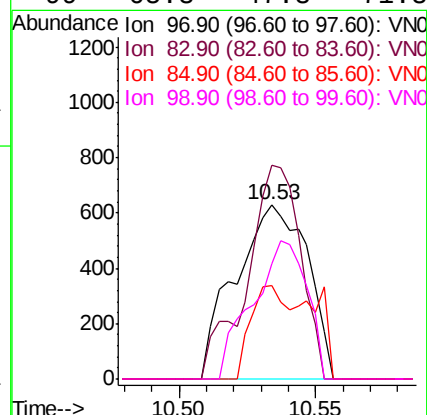
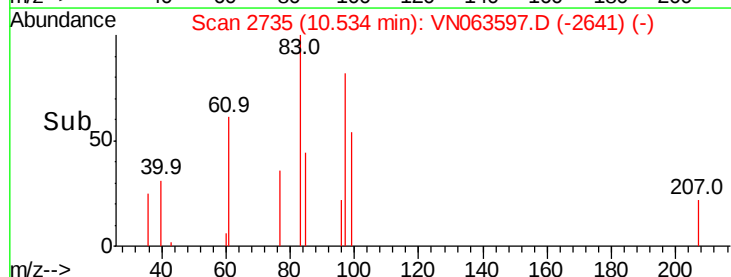
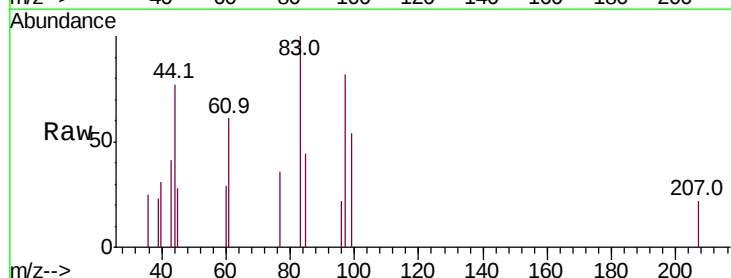
Ion Ratio Lower Upper

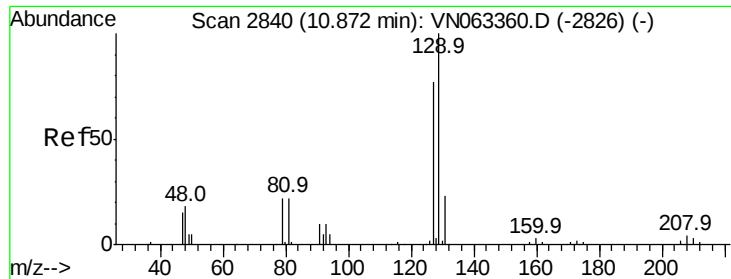
97 100

83 122.3 68.9 103.3#

85 53.4 44.8 67.2

99 65.8 47.8 71.8





#60

Dibromochloromethane

Concen: 5.973 ug/l

RT: 10.60 min Scan# 2756

Delta R.T. -0.27 min

Lab File: VN063597.D

Acq: 23 Sep 2020 18:30

Instrument :

MSVOA_N

ClientSampleId :

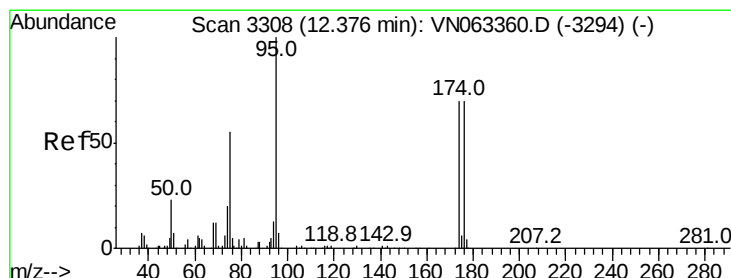
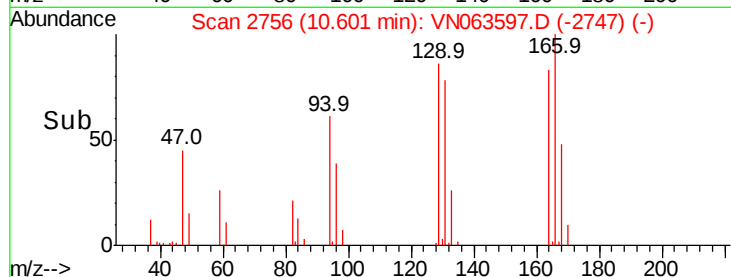
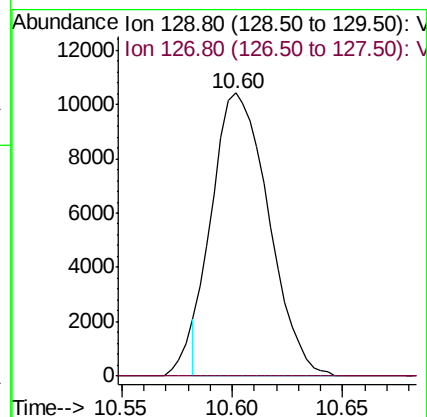
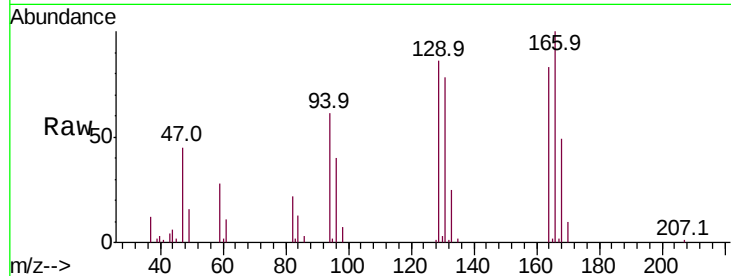
RE120D2-20200916

Tot Ion:129 Resp: 18410

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.3#



#62

4-Bromofluorobenzene

Concen: 53.409 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063597.D

Acq: 23 Sep 2020 18:30

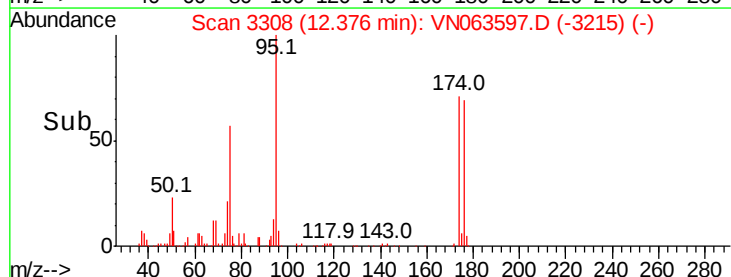
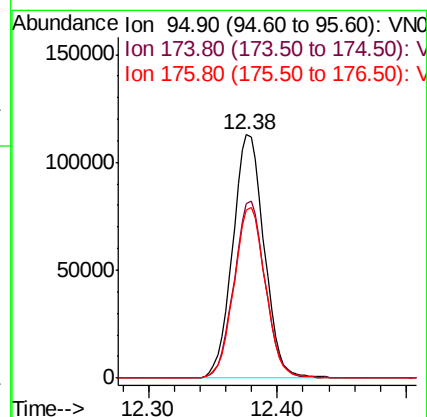
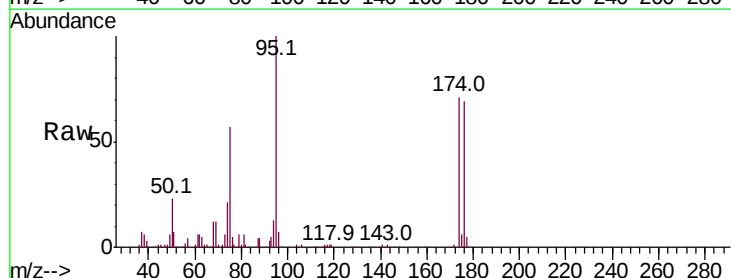
Tgt Ion: 95 Resp: 191441

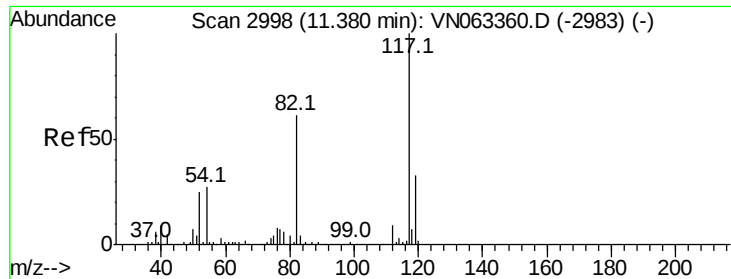
Ion Ratio Lower Upper

95 100

174 72.2 0.0 140.8

176 70.2 0.0 137.6

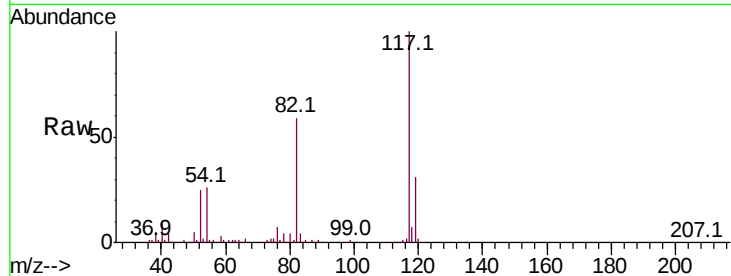




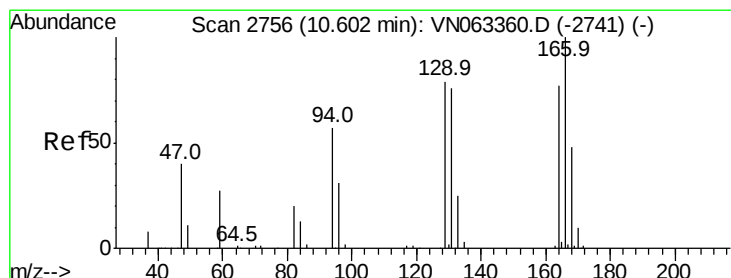
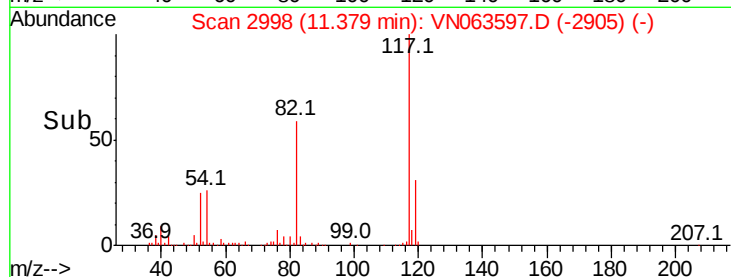
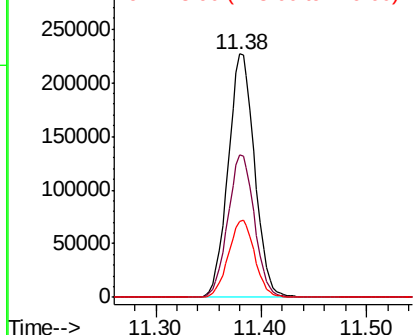
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063597.D
Acq: 23 Sep 2020 18:30

Instrument :
MSVOA_N
ClientSampleId :
RE120D2-20200916

Tot Ion:117 Resp: 393084
Ion Ratio Lower Upper
117 100
82 58.6 49.2 73.8
119 31.3 26.2 39.4

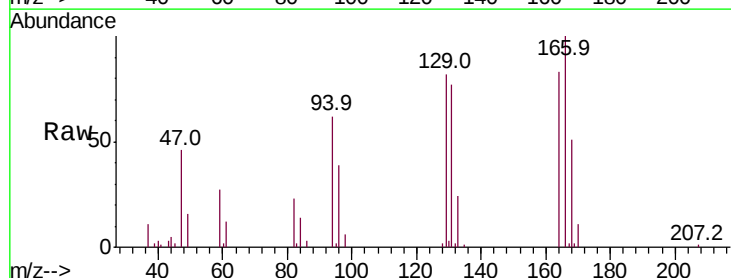


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

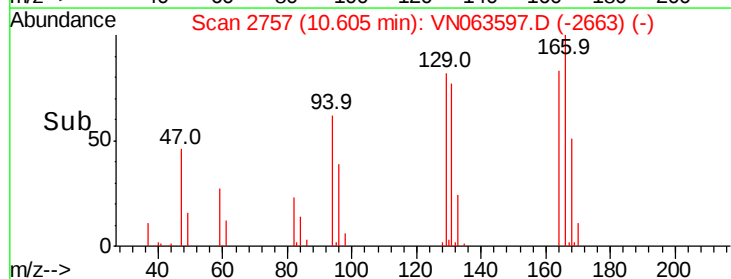
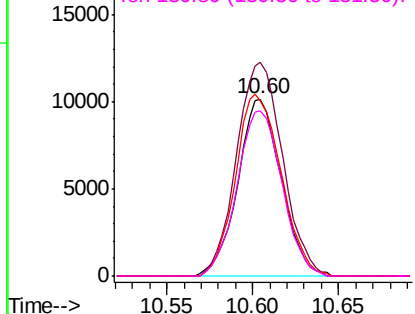


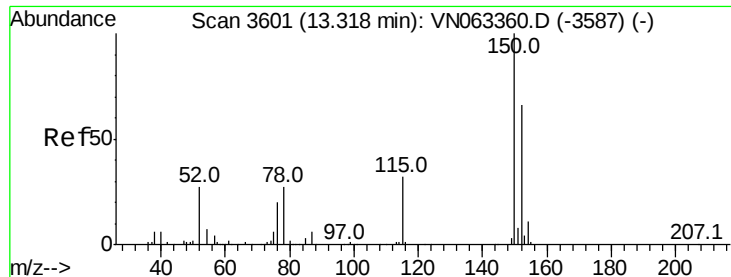
#64
Tetrachloroethene
Concen: 6.661 ug/l
RT: 10.60 min Scan# 2757
Delta R.T. 0.00 min
Lab File: VN063597.D
Acq: 23 Sep 2020 18:30

Tgt Ion:164 Resp: 17829
Ion Ratio Lower Upper
164 100
166 120.6 103.4 155.0
129 99.1 81.8 122.6
131 93.1 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# 3602

Delta R.T. 0.00 min

Lab File: VN063597.D

Acq: 23 Sep 2020 18:30

Instrument :

MSVOA_N

ClientSampleId :

RE120D2-20200916

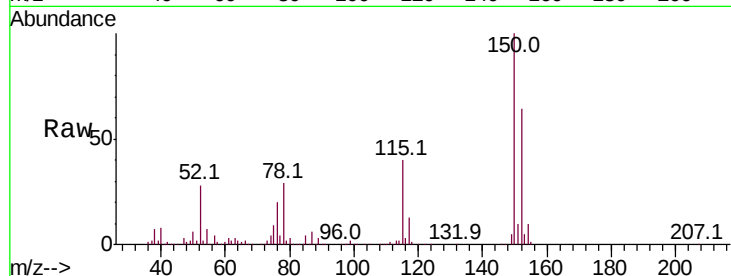
Tot Ion:152 Resp: 163665

Ion Ratio Lower Upper

152 100

115 63.3 32.2 96.6

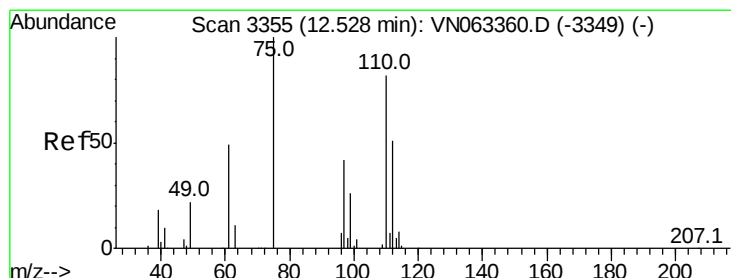
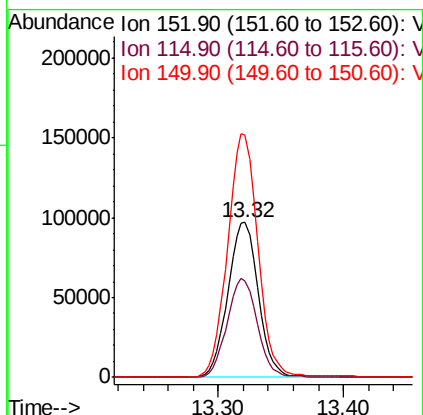
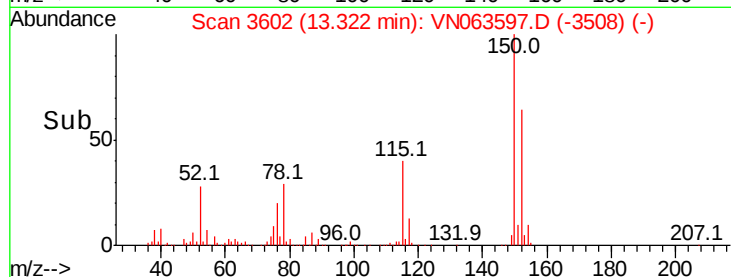
150 156.1 0.0 343.4



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: 26.817 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063597.D

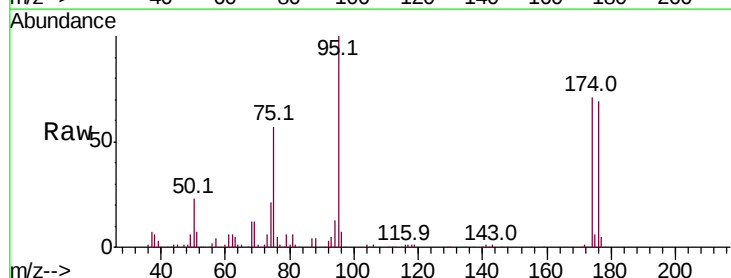
Acq: 23 Sep 2020 18:30

Tgt Ion: 75 Resp: 108632

Ion Ratio Lower Upper

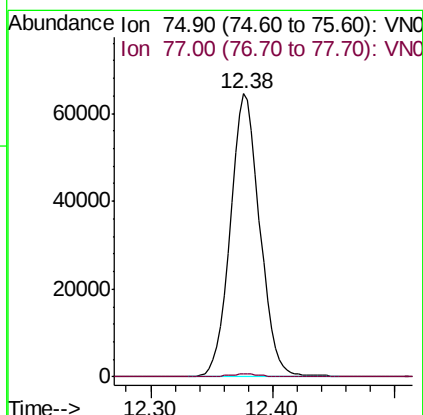
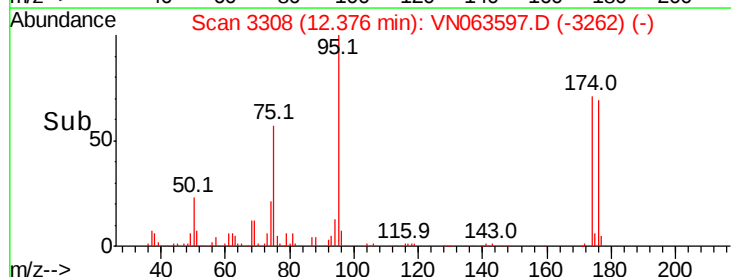
75 100

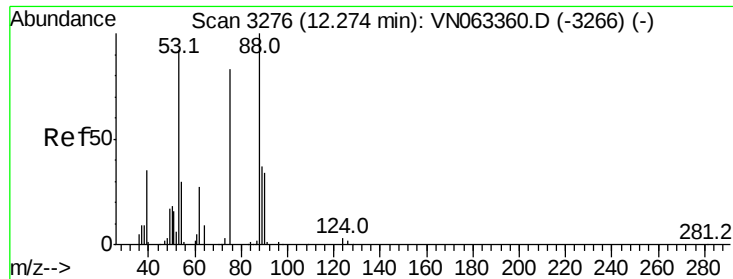
77 1.0 0.0 0.0#



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: 73.521 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063597.D

Acq: 23 Sep 2020 18:30

Instrument :

MSVOA_N

ClientSampleId :

RE120D2-20200916

Tot Ion: 75 Resp: 108632

Ion Ratio Lower Upper

75 100

53 0.1 85.7 128.5#

89 0.0 38.0 57.0#

