

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092120\
 Data File : VN063521.D
 Acq On : 22 Sep 2020 6:29
 Operator : JC/MD
 Sample : L4082-19
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D3-20200916

Quant Time: Sep 22 06:54:02 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	7.62	168	223987	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	420133	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	416458	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	179081	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	189086	49.59	ug/l	0.00
Spiked Amount			Recovery	=	99.18%	
35) Dibromofluoromethane	7.55	113	133804	46.00	ug/l	0.00
Spiked Amount			Recovery	=	92.00%	
50) Toluene-d8	10.06	98	536221	49.03	ug/l	0.00
Spiked Amount			Recovery	=	98.06%	
62) 4-Bromofluorobenzene	12.38	95	209733	52.31	ug/l	0.00
Spiked Amount			Recovery	=	104.62%	

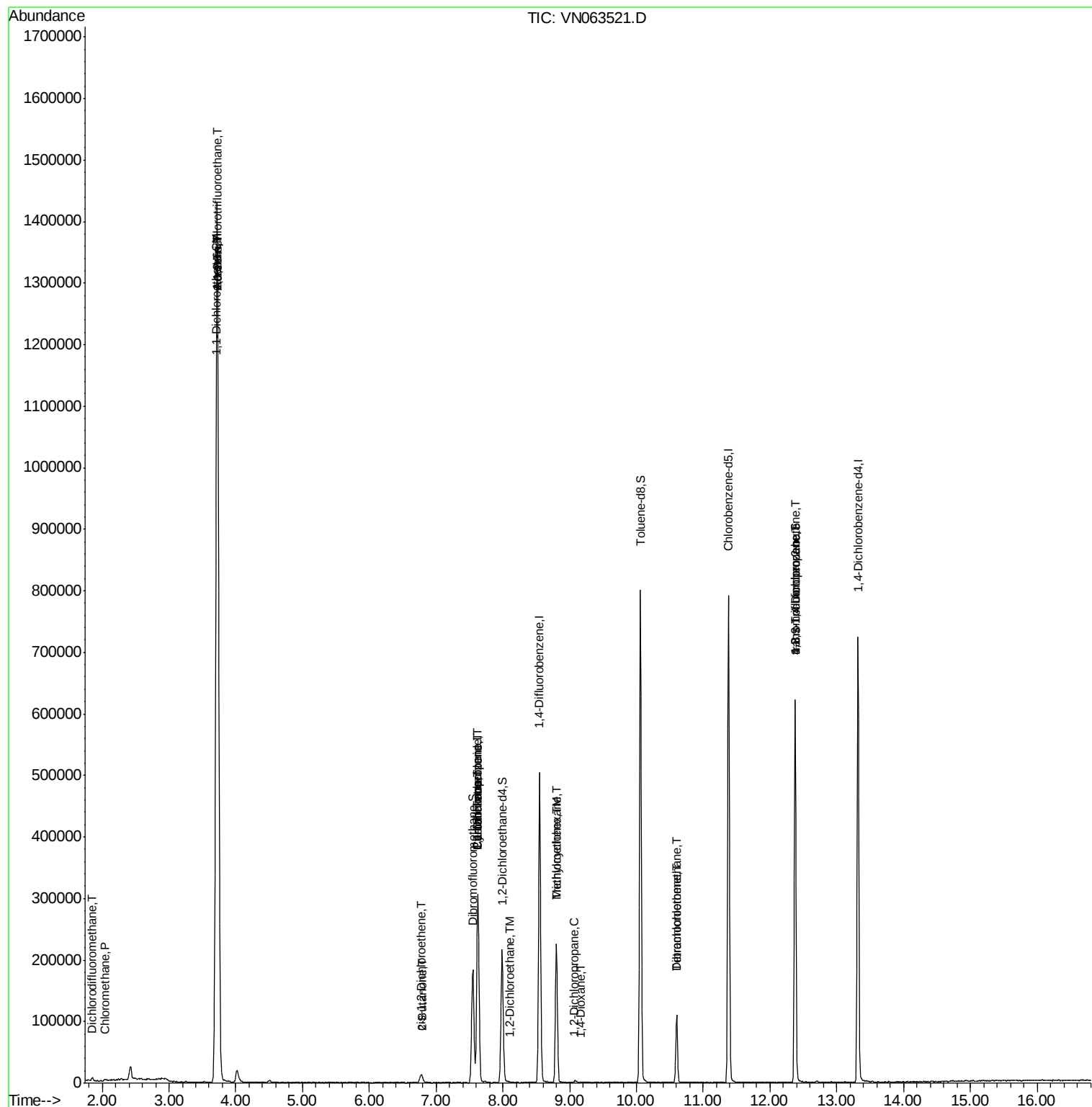
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.84	85	638	0.251	ug/l #	43
3) Chloromethane	2.04	50	1799	0.536	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	3.72	101	868683	348.096	ug/l	98
12) 1,1-Dichloroethene	3.70	96	7196	2.847	ug/l #	77
13) Acrolein	3.72	56	64	0.327	ug/l #	13
16) Acetone	3.72	43	15403	12.570	ug/l #	65
25) 2-Butanone	6.79	43	430	0.228	ug/l #	51
27) cis-1,2-Dichloroethene	6.79	96	3300	1.041	ug/l	41
31) Cyclohexane	7.62	56	6850	1.301	ug/l #	26
36) 1,1-Dichloropropene	7.63	75	20530	4.587	ug/l #	51
38) Carbon Tetrachloride	7.62	117	26194	5.733	ug/l #	17
39) Methylcyclohexane	8.80	83	1302	0.268	ug/l #	1
42) 1,2-Dichloroethane	8.09	62	1534	0.299	ug/l #	78
44) Trichloroethene	8.80	130	73977	23.871	ug/l	98
45) 1,2-Dichloropropane	9.08	63	1243	0.357	ug/l	93
49) 1,4-Dioxane	9.17	88	372	6.717	ug/l #	72
60) Dibromochloromethane	10.60	129	22588	6.553	ug/l #	10
64) Tetrachloroethene	10.60	164	23271	8.206	ug/l	93
76) 1,2,3-Trichloropropane	12.38	75	118727	26.786	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	118727	73.436	ug/l #	7

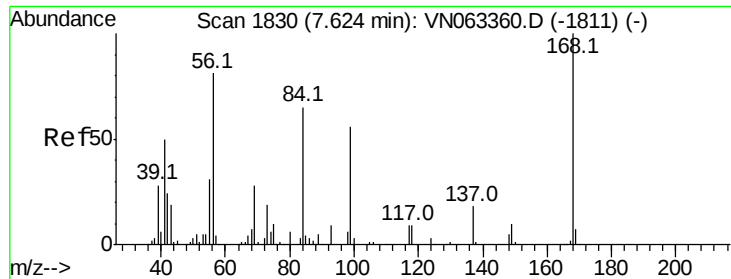
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN063521.D

Acq: 22 Sep 2020 6:29

Instrument :

MSVOA_N

ClientSampleId :

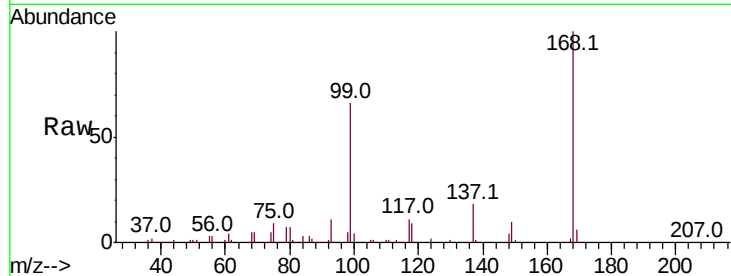
RE131D3-20200916

Tot Ion:168 Resp: 223987

Ion Ratio Lower Upper

168 100

99 65.8 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.62

100000

80000

60000

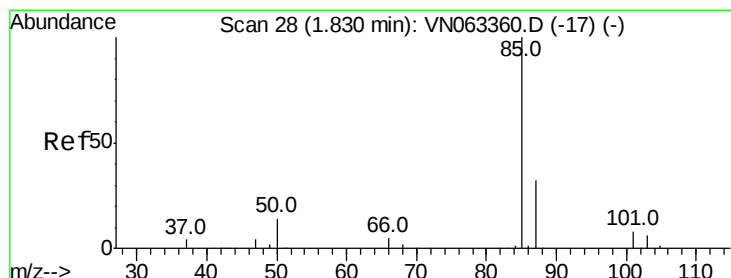
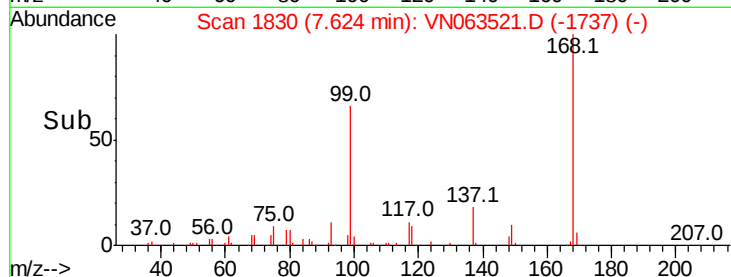
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 0.251 ug/l

RT: 1.84 min Scan# 30

Delta R.T. 0.01 min

Lab File: VN063521.D

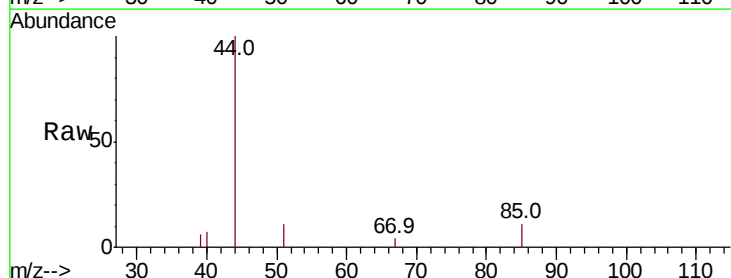
Acq: 22 Sep 2020 6:29

Tgt Ion: 85 Resp: 638

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.6#



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.84

500

400

300

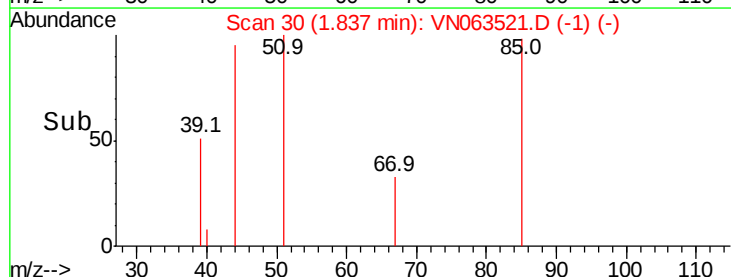
200

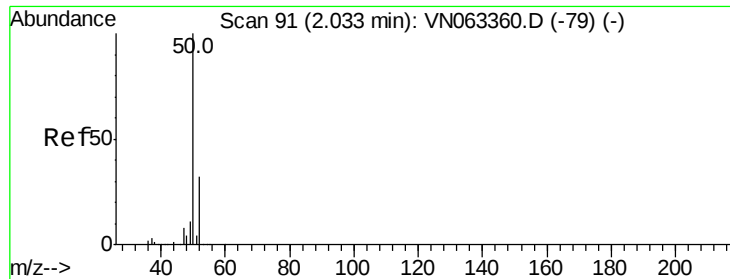
100

0

1.80 1.82 1.84 1.86

Time-->





#3

Chloromethane

Concen: 0.536 ug/l

RT: 2.04 min Scan# 93

Delta R.T. 0.01 min

Lab File: VN063521.D

Acq: 22 Sep 2020 6:29

Instrument :

MSVOA_N

ClientSampleId :

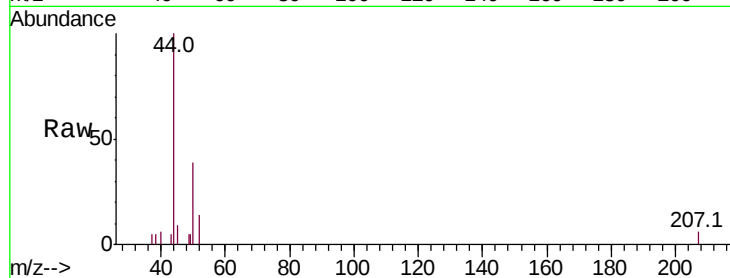
RE131D3-20200916

Tot Ion: 50 Resp: 1799

Ion Ratio Lower Upper

50 100

52 36.7 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN063360.D (-79) (-)

Ion 51.90 (51.60 to 52.60): VN063360.D (-79) (-)

2.04

1500

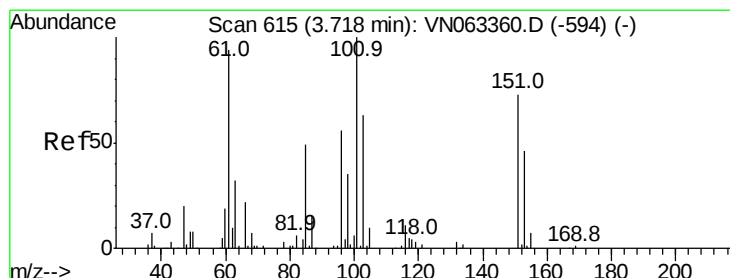
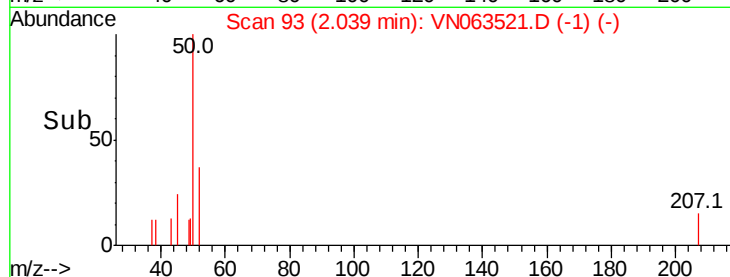
1000

500

0

Time-->

2.00 2.02 2.04 2.06 2.08



#9

1,1,2-Trichlorotrifluoroethane

Concen: 348.096 ug/l

RT: 3.72 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN063521.D

Acq: 22 Sep 2020 6:29

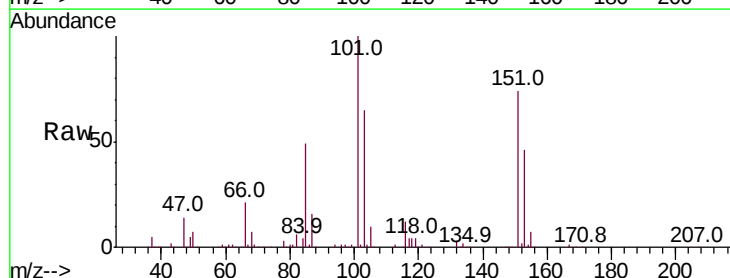
Tgt Ion: 101 Resp: 868683

Ion Ratio Lower Upper

101 100

85 48.8 37.7 56.5

151 73.0 57.7 86.5



Abundance Ion 100.90 (100.60 to 101.60): VN063360.D (-594) (-)

Ion 84.90 (84.60 to 85.60): VN063360.D (-594) (-)

Ion 150.80 (150.50 to 151.50): VN063360.D (-594) (-)

3.72

400000

300000

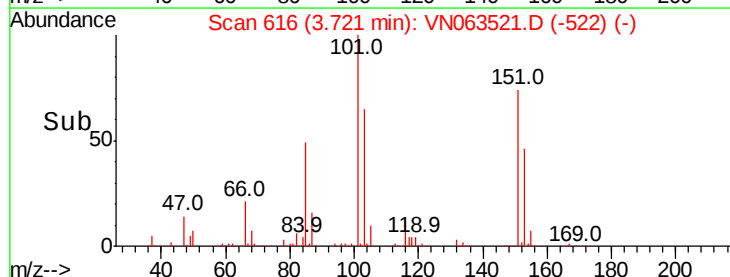
200000

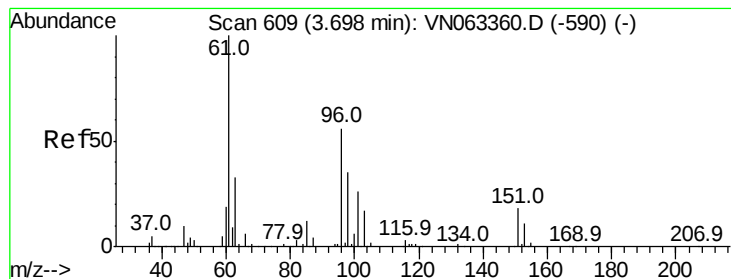
100000

0

Time-->

3.60 3.70 3.80





#12

1,1-Dichloroethene

Concen: 2.847 ug/l

RT: 3.70 min Scan# 609

Delta R.T. -0.00 min

Lab File: VN063521.D

Acq: 22 Sep 2020 6:29

Instrument :

MSVOA_N

ClientSampleId :

RE131D3-20200916

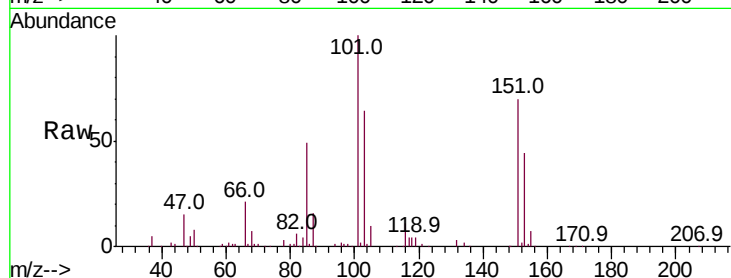
Tot Ion: 96 Resp: 7196

Ion Ratio Lower Upper

96 100

61 142.4 143.4 215.2#

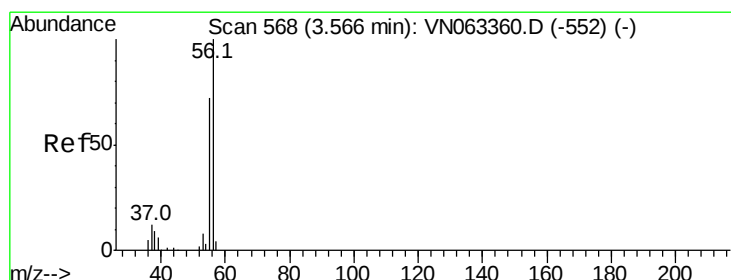
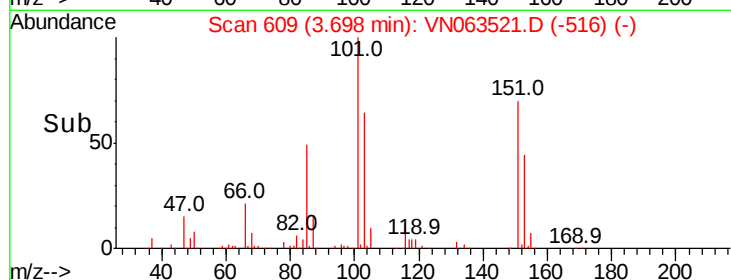
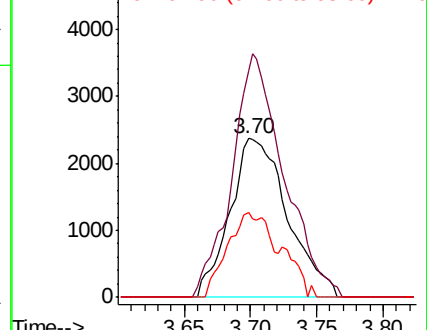
98 53.2 50.6 76.0



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: 0.327 ug/l

RT: 3.72 min Scan# 617

Delta R.T. 0.16 min

Lab File: VN063521.D

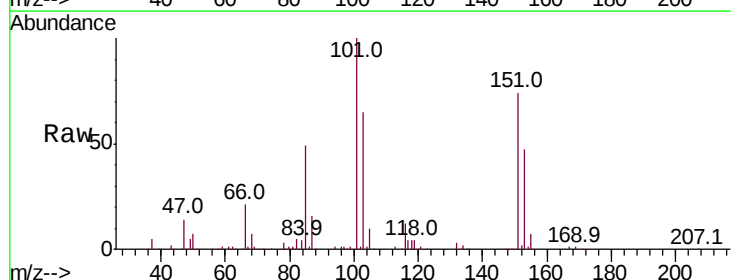
Acq: 22 Sep 2020 6:29

Tgt Ion: 56 Resp: 64

Ion Ratio Lower Upper

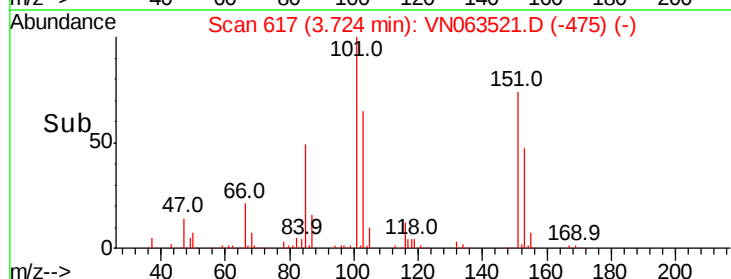
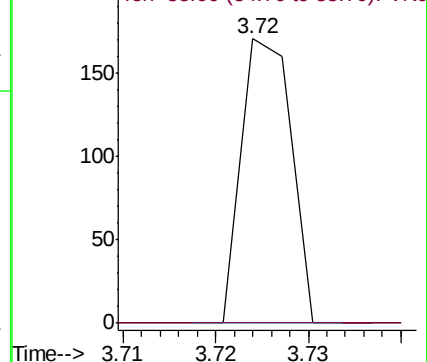
56 100

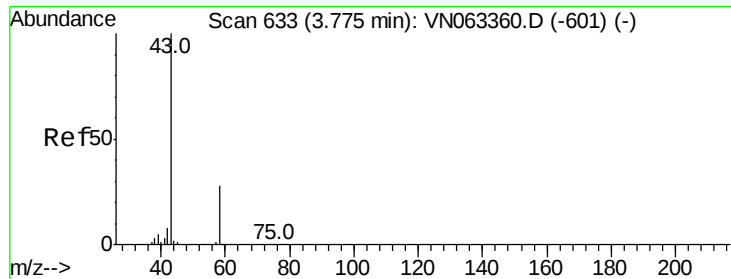
55 0.0 58.2 87.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 12.570 ug/l

RT: 3.72 min Scan# 617

Delta R.T. -0.05 min

Lab File: VN063521.D

Acq: 22 Sep 2020 6:29

Instrument :

MSVOA_N

ClientSampleId :

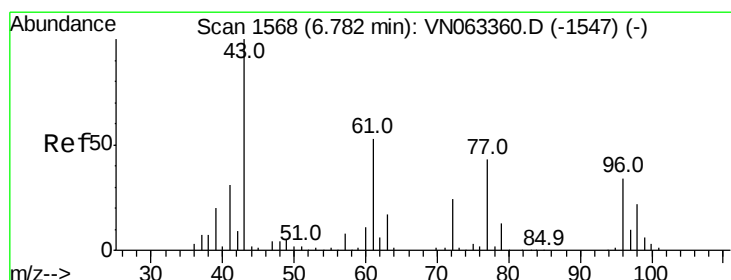
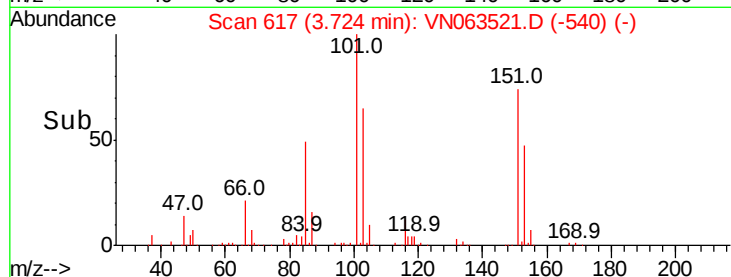
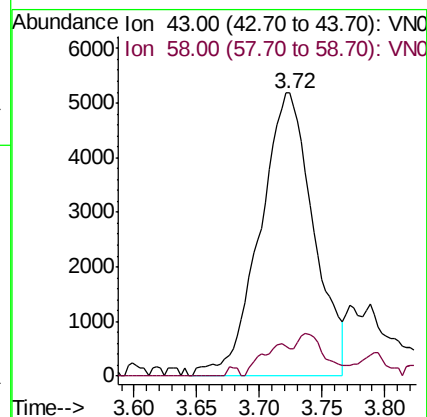
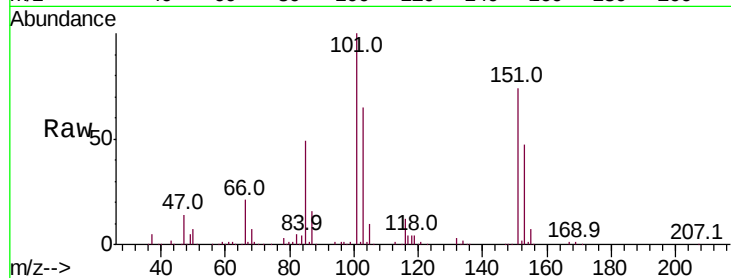
RE131D3-20200916

Tot Ion: 43 Resp: 15403

Ion Ratio Lower Upper

43 100

58 9.5 22.3 33.5#



#25

2-Butanone

Concen: 0.228 ug/l

RT: 6.79 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VN063521.D

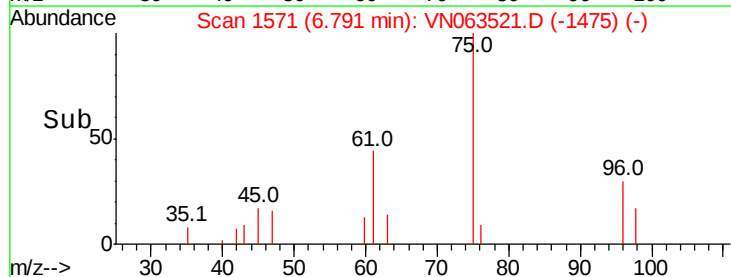
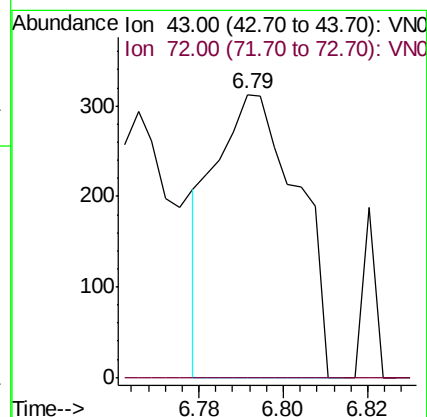
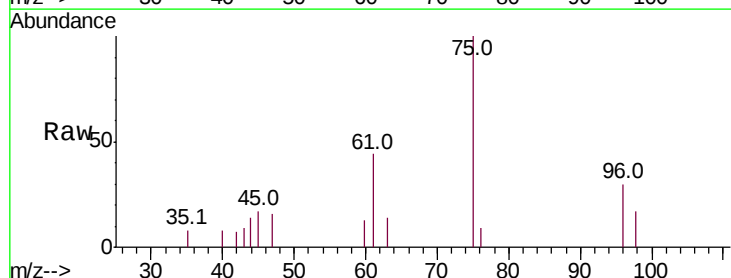
Acq: 22 Sep 2020 6:29

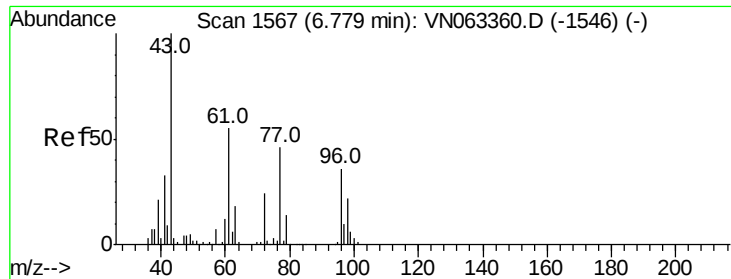
Tgt Ion: 43 Resp: 430

Ion Ratio Lower Upper

43 100

72 0.0 19.2 28.8#

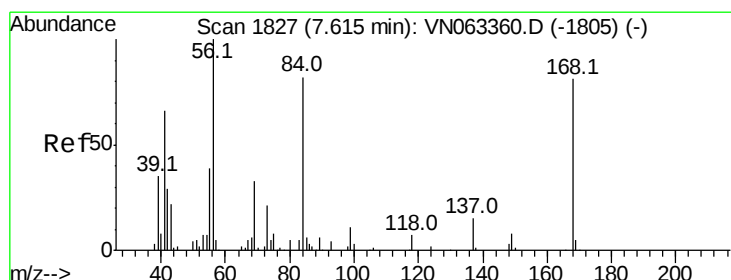
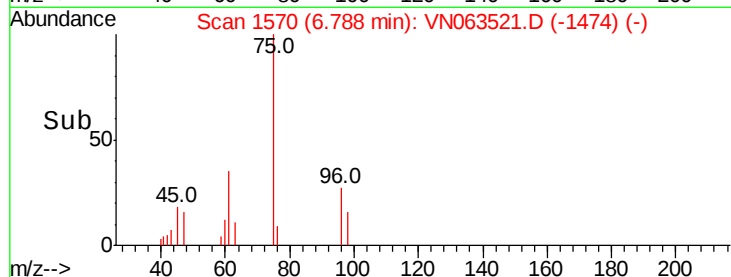
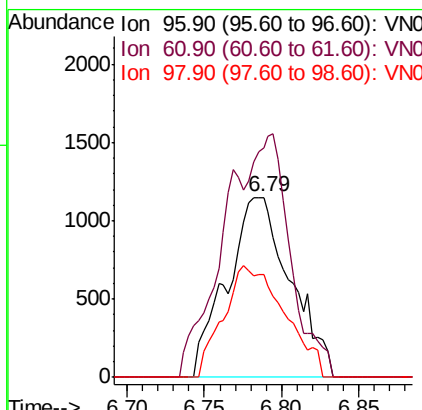
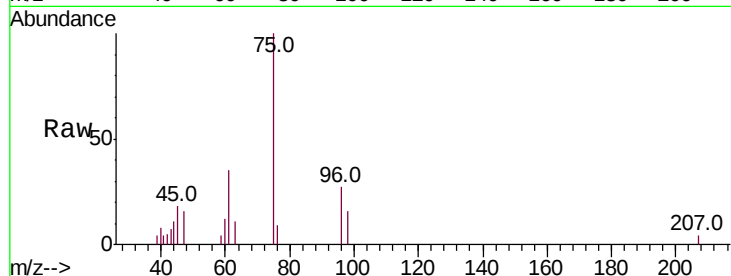




#27
 cis-1,2-Dichloroethene
 Concen: 1.041 ug/l
 RT: 6.79 min Scan# 1570
 Delta R.T. 0.01 min
 Lab File: VN063521.D
 Acq: 22 Sep 2020 6:29

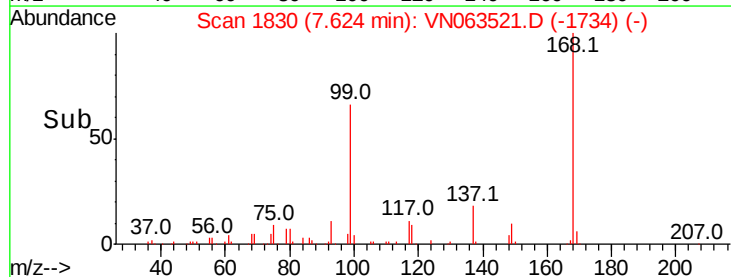
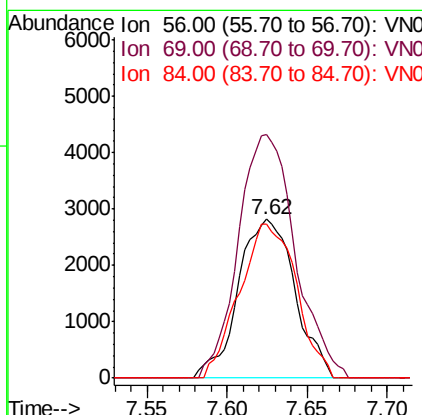
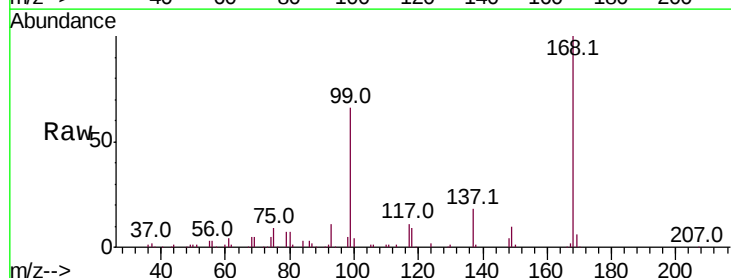
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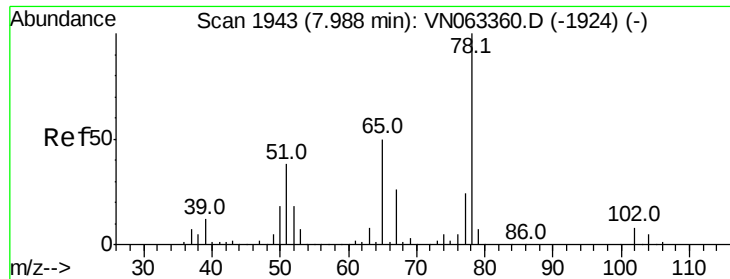
Tot Ion: 96 Resp: 3300
 Ion Ratio Lower Upper
 96 100
 61 53.8 0.0 319.6
 98 59.3 0.0 127.8



#31
 Cyclohexane
 Concen: 1.301 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. 0.01 min
 Lab File: VN063521.D
 Acq: 22 Sep 2020 6:29

Tgt Ion: 56 Resp: 6850
 Ion Ratio Lower Upper
 56 100
 69 153.4 26.1 39.1#
 84 97.2 65.4 98.2

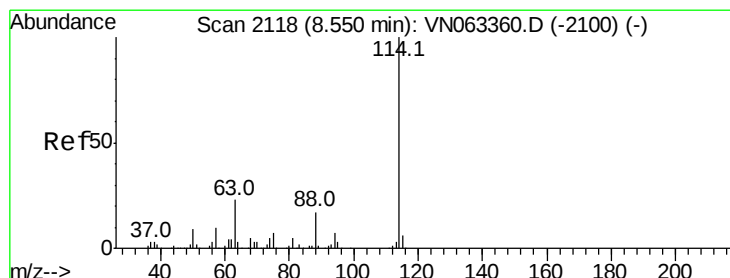
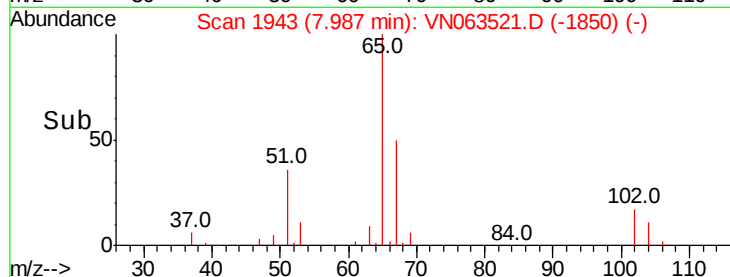
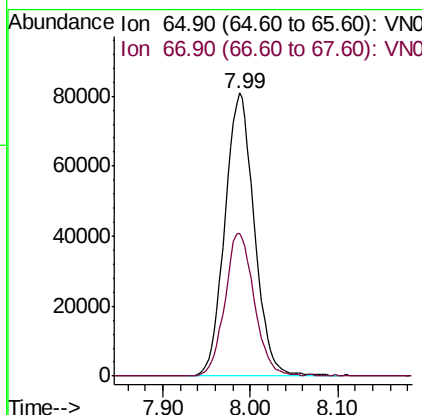
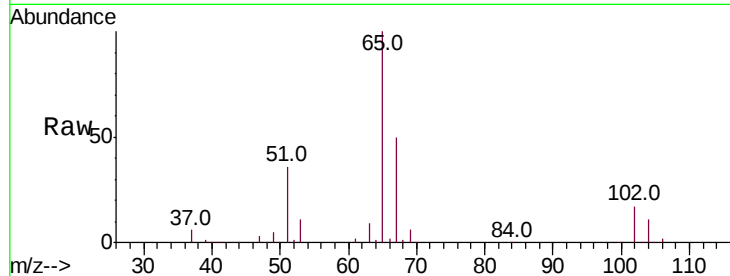




#33
 1,2-Dichloroethane-d4
 Concen: 49.592 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN063521.D
 Acq: 22 Sep 2020 6:29

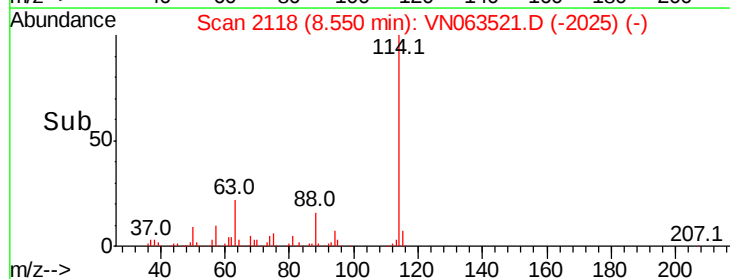
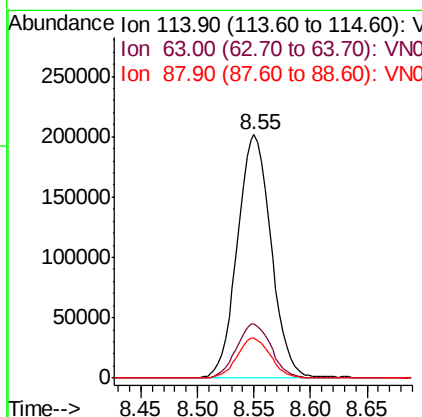
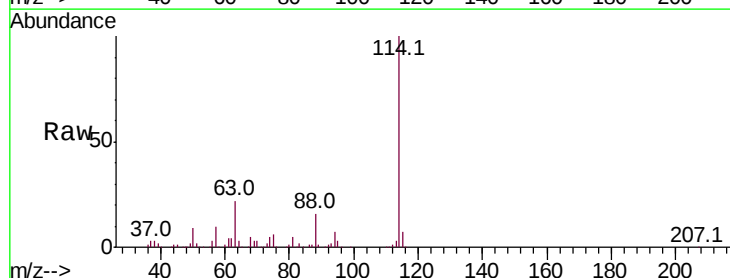
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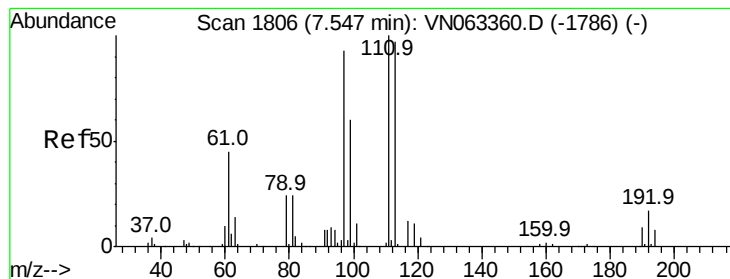
Tot Ion: 65 Resp: 189086
 Ion Ratio Lower Upper
 65 100
 67 50.2 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063521.D
 Acq: 22 Sep 2020 6:29

Tgt Ion: 114 Resp: 420133
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 46.4
 88 16.2 0.0 33.2





#35

Dibromofluoromethane

Concen: 46.005 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063521.D

Acq: 22 Sep 2020 6:29

Instrument :

MSVOA_N

ClientSampleId :

RE131D3-20200916

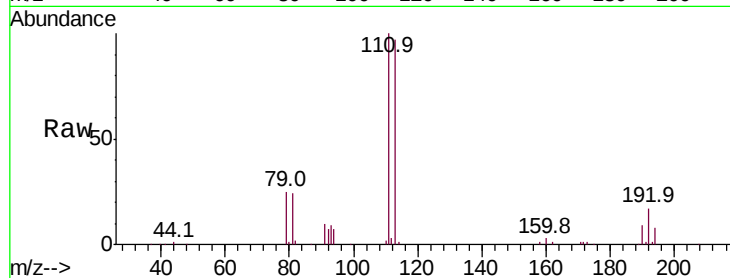
Tot Ion:113 Resp: 133804

Ion Ratio Lower Upper

113 100

111 105.3 82.9 124.3

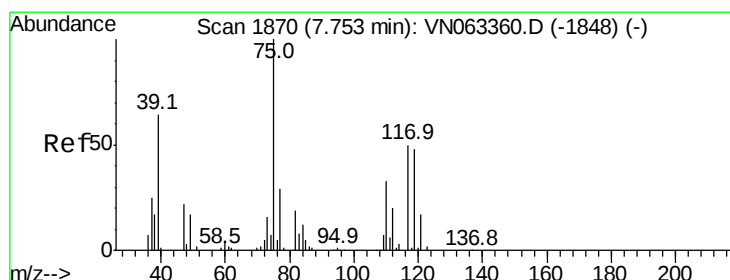
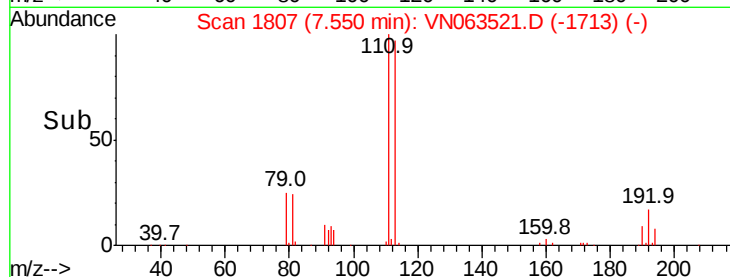
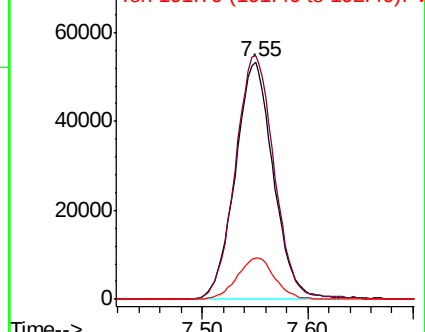
192 17.2 13.9 20.9



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: 4.587 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063521.D

Acq: 22 Sep 2020 6:29

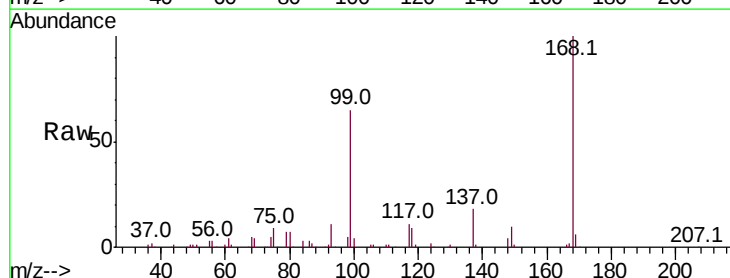
Tgt Ion: 75 Resp: 20530

Ion Ratio Lower Upper

75 100

110 9.5 16.5 49.5#

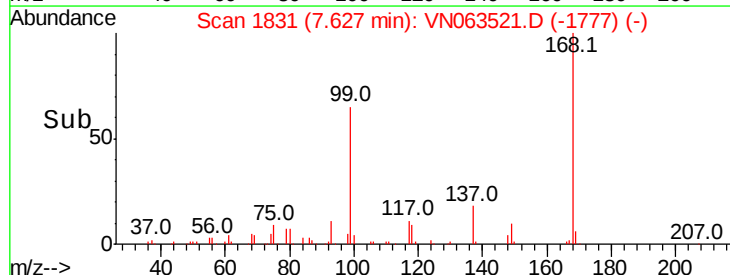
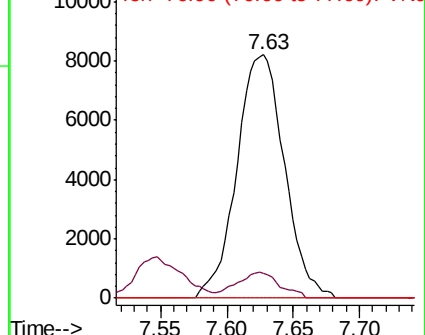
77 0.0 24.6 36.8#

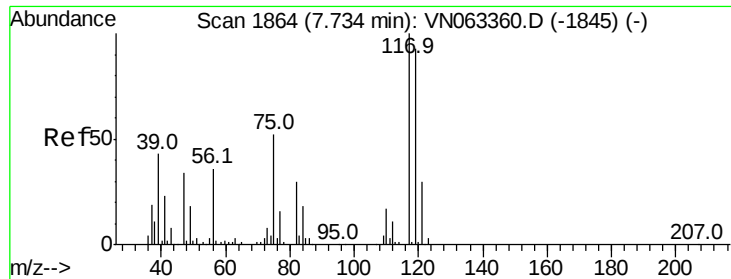


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.733 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063521.D

Acq: 22 Sep 2020 6:29

Instrument :

MSVOA_N

ClientSampleId :

RE131D3-20200916

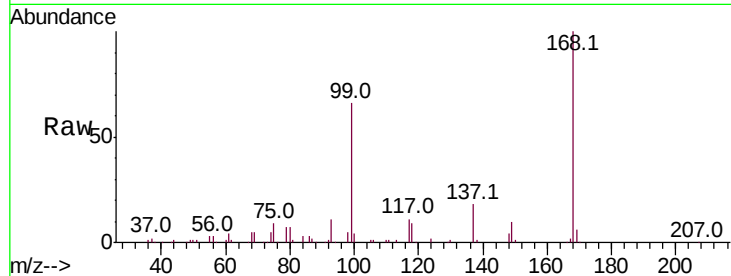
Tot Ion:117 Resp: 26194

Ion Ratio Lower Upper

117 100

119 4.5 74.5 111.7#

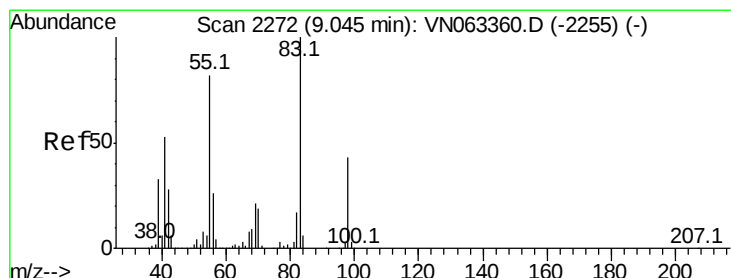
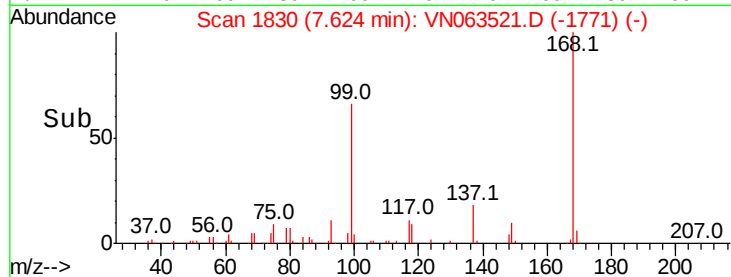
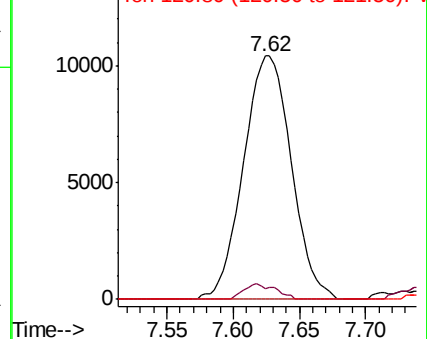
121 0.0 24.1 36.1#



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: 0.268 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.24 min

Lab File: VN063521.D

Acq: 22 Sep 2020 6:29

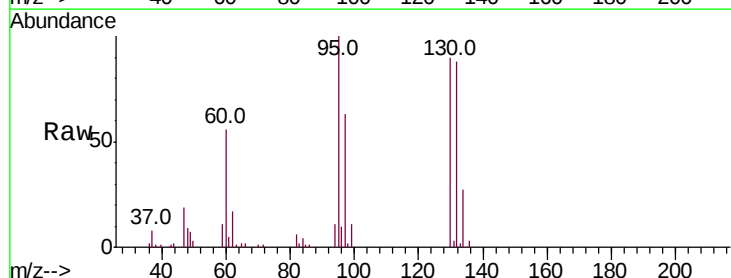
Tgt Ion: 83 Resp: 1302

Ion Ratio Lower Upper

83 100

55 0.0 65.5 98.3#

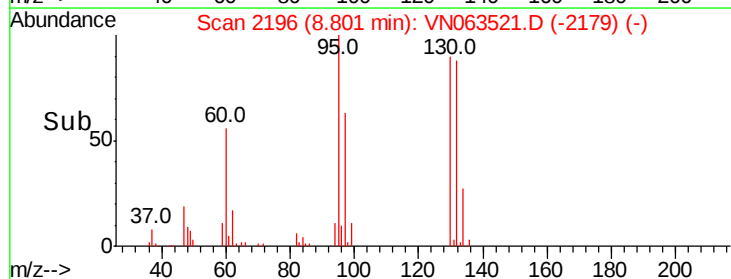
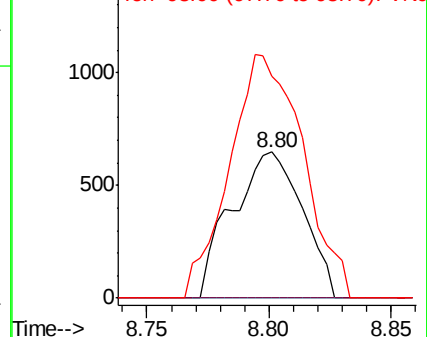
98 128.5 34.2 51.4#

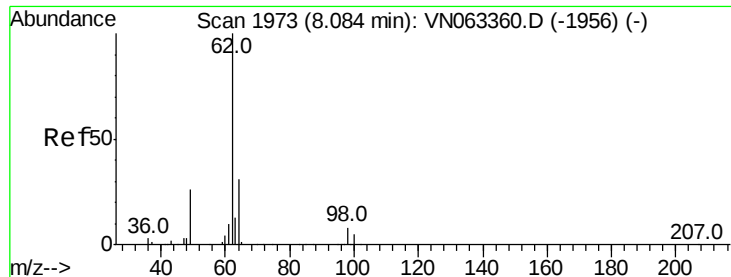


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V





#42

1,2-Dichloroethane

Concen: 0.299 ug/l

RT: 8.09 min Scan# 1976

Delta R.T. 0.01 min

Lab File: VN063521.D

Acq: 22 Sep 2020 6:29

Instrument :

MSVOA_N

ClientSampleId :

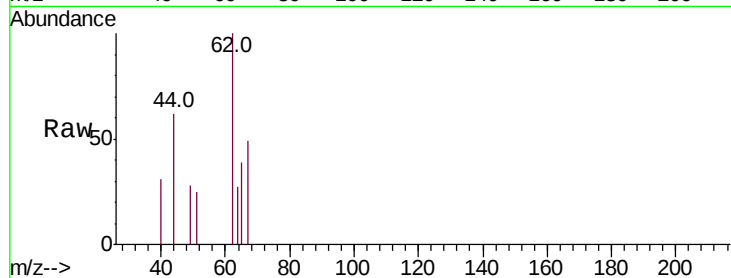
RE131D3-20200916

Tot Ion: 62 Resp: 1534

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) (-)

8.09

600

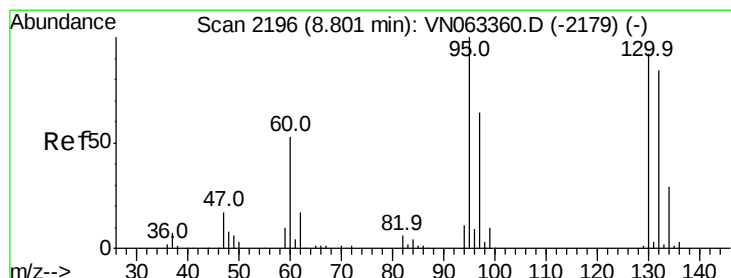
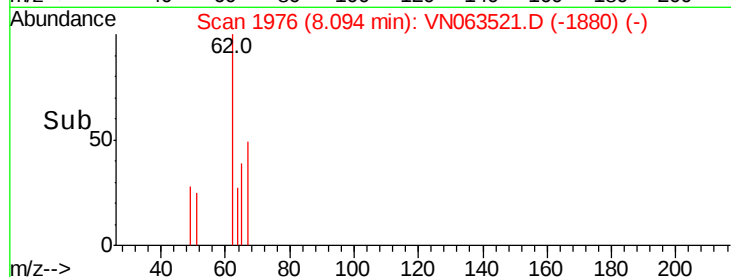
400

200

0

8.05 8.10 8.15

Time-->



#44

Trichloroethene

Concen: 23.871 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN063521.D

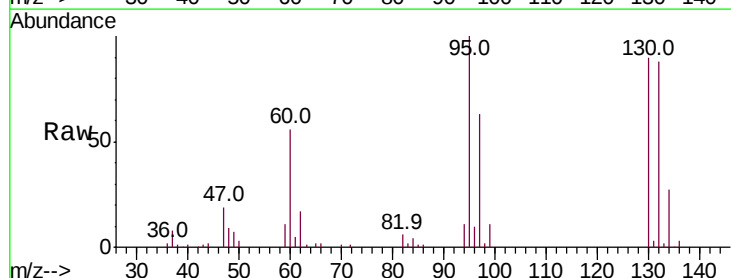
Acq: 22 Sep 2020 6:29

Tgt Ion:130 Resp: 73977

Ion Ratio Lower Upper

130 100

95 110.8 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

40000

30000

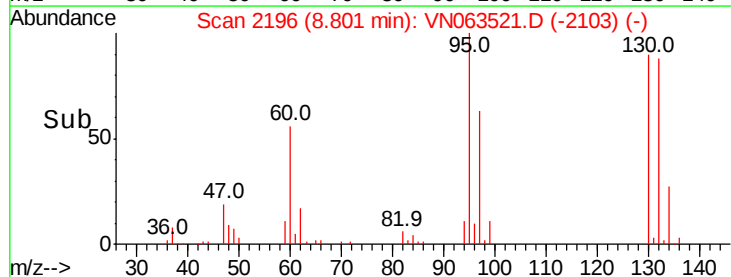
20000

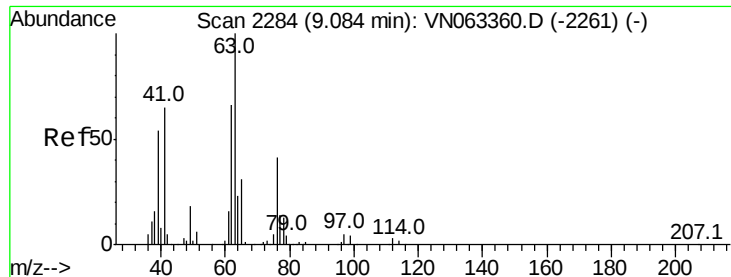
10000

0

8.70 8.75 8.80 8.85

Time-->





#45

1,2-Dichloropropane

Concen: 0.357 ug/l

RT: 9.08 min Scan# 2283

Delta R.T. -0.00 min

Lab File: VN063521.D

Acq: 22 Sep 2020 6:29

Instrument :

MSVOA_N

ClientSampleId :

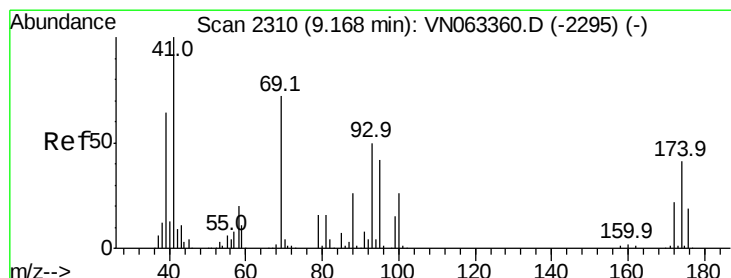
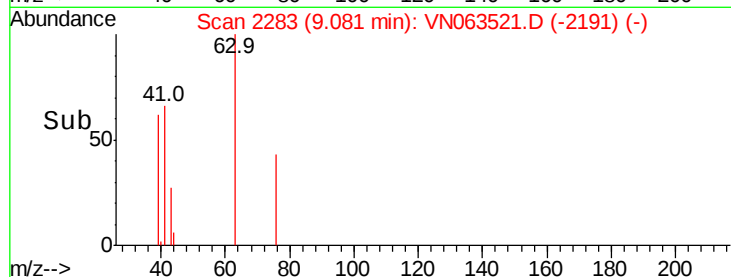
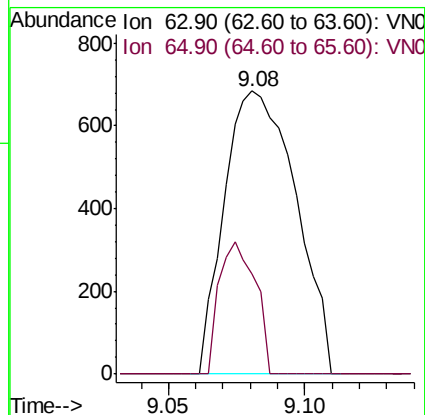
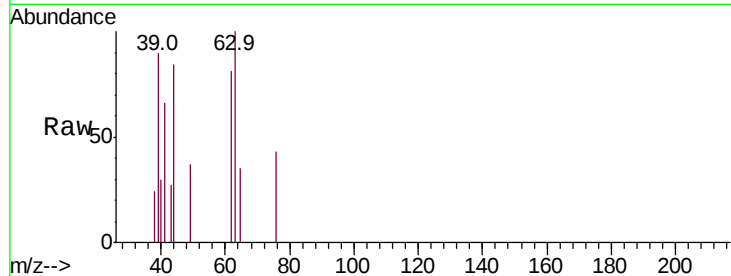
RE131D3-20200916

Tot Ion: 63 Resp: 1243

Ion Ratio Lower Upper

63 100

65 35.4 25.0 37.6



#49

1,4-Dioxane

Concen: 6.717 ug/l

RT: 9.17 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN063521.D

Acq: 22 Sep 2020 6:29

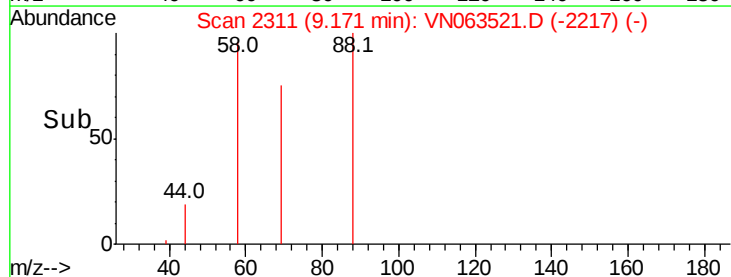
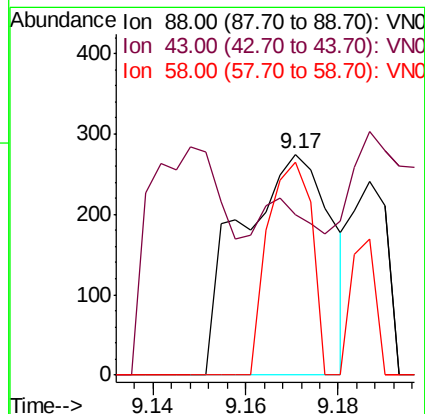
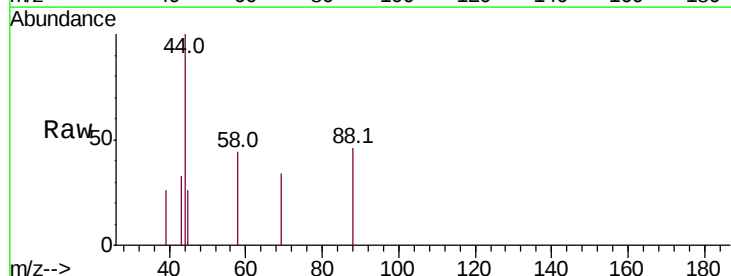
Tgt Ion: 88 Resp: 372

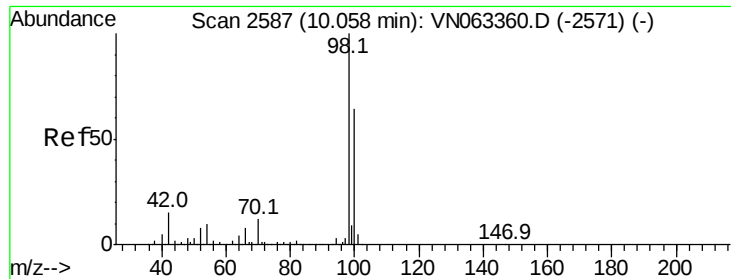
Ion Ratio Lower Upper

88 100

43 51.6 32.6 49.0#

58 46.8 60.0 90.0#





#50

Toluene-d8

Concen: 49.031 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN063521.D

Acq: 22 Sep 2020 6:29

Instrument :

MSVOA_N

ClientSampleId :

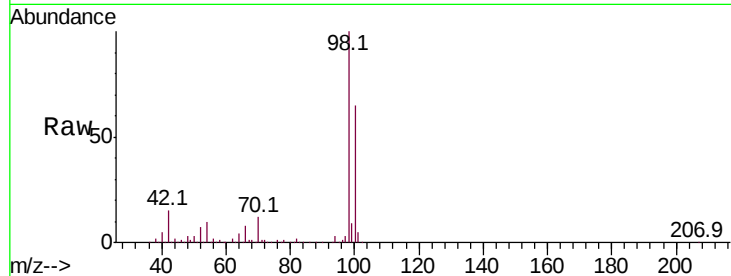
RE131D3-20200916

Tot Ion: 98 Resp: 536221

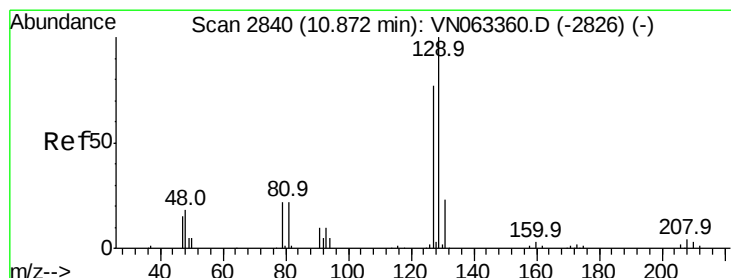
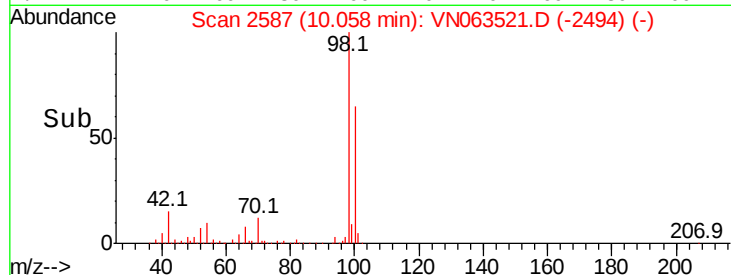
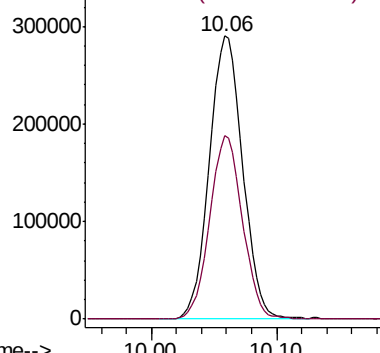
Ion Ratio Lower Upper

98 100

100 63.9 50.7 76.1



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



#60

Dibromochloromethane

Concen: 6.553 ug/l

RT: 10.60 min Scan# 2756

Delta R.T. -0.27 min

Lab File: VN063521.D

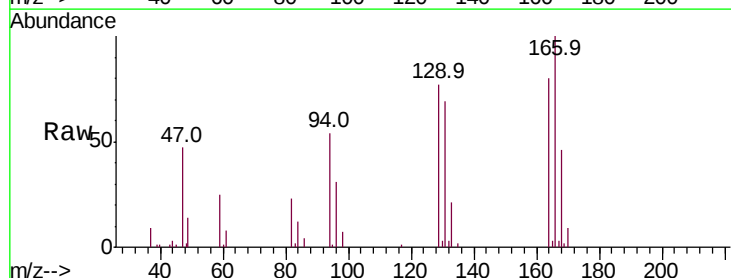
Acq: 22 Sep 2020 6:29

Tgt Ion: 129 Resp: 22588

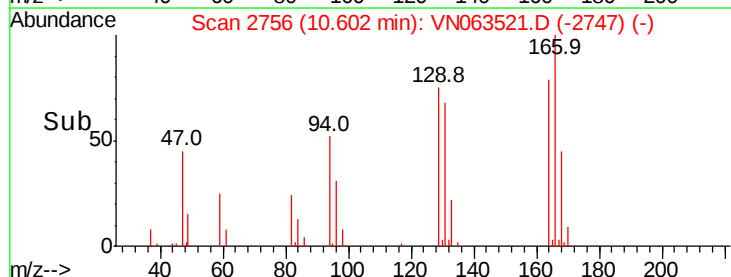
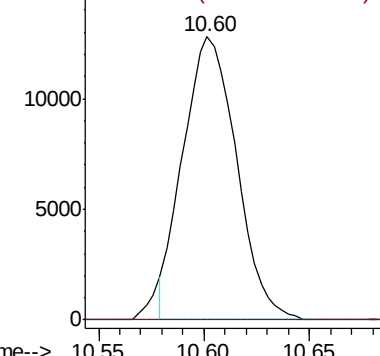
Ion Ratio Lower Upper

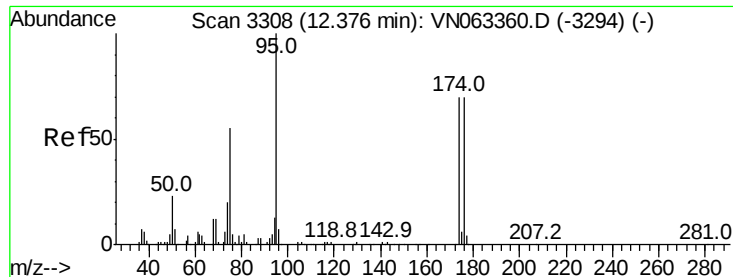
129 100

127 0.0 39.1 117.3#



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





#62

4-Bromofluorobenzene

Concen: 52.314 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

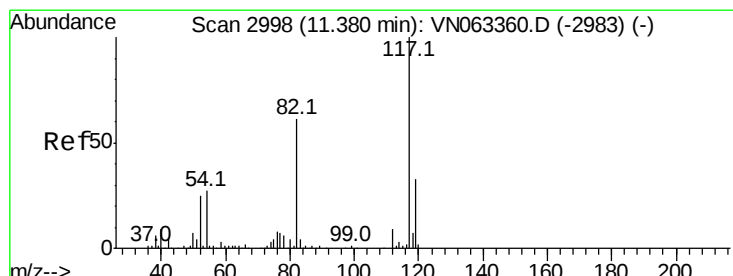
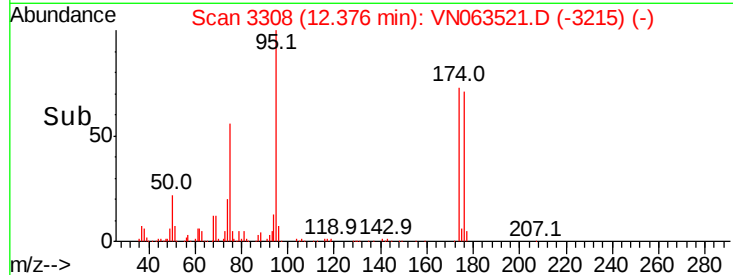
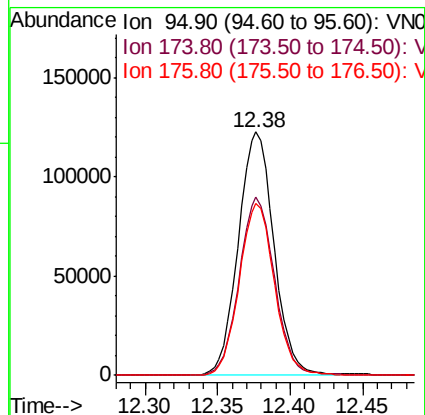
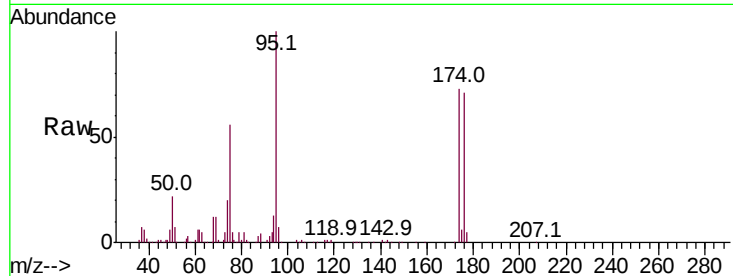
Lab File: VN063521.D

Acq: 22 Sep 2020 6:29

Instrument :
MSVOA_N
ClientSampleId :
RE131D3-20200916

Tot Ion: 95 Resp: 209733

Ion	Ratio	Lower	Upper
95	100		
174	72.8	0.0	140.8
176	69.7	0.0	137.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

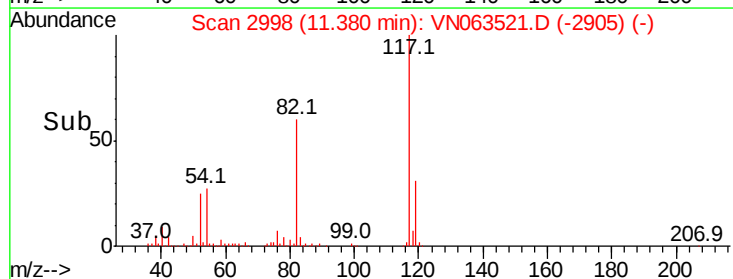
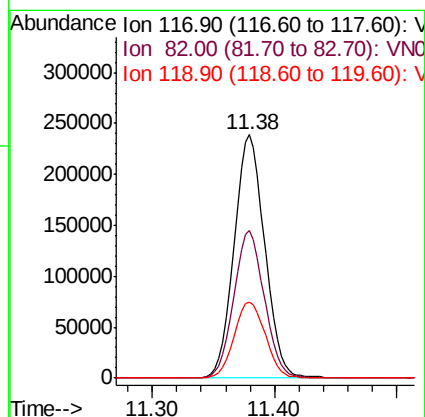
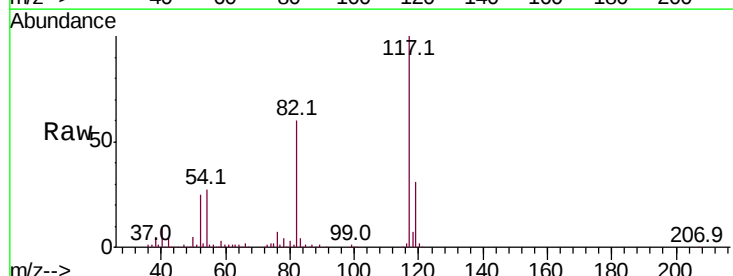
Delta R.T. -0.00 min

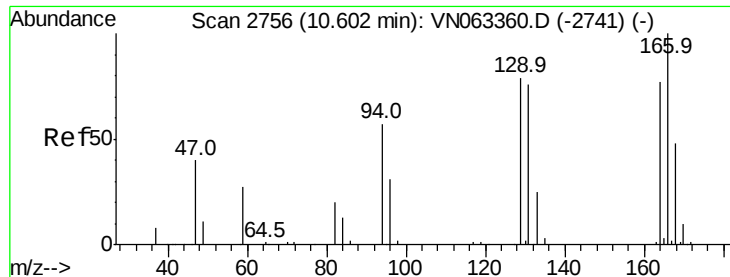
Lab File: VN063521.D

Acq: 22 Sep 2020 6:29

Tgt Ion: 117 Resp: 416458

Ion	Ratio	Lower	Upper
117	100		
82	60.5	49.2	73.8
119	31.2	26.2	39.4





#64

Tetrachloroethene

Concen: 8.206 ug/l

RT: 10.60 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VN063521.D

Acq: 22 Sep 2020 6:29

Instrument :

MSVOA_N

ClientSampleId :

RE131D3-20200916

Tot Ion:164 Resp: 23271

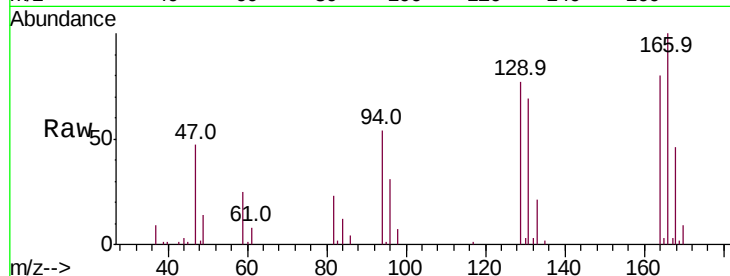
Ion Ratio Lower Upper

164 100

166 124.8 103.4 155.0

129 95.8 81.8 122.6

131 86.3 78.2 117.4

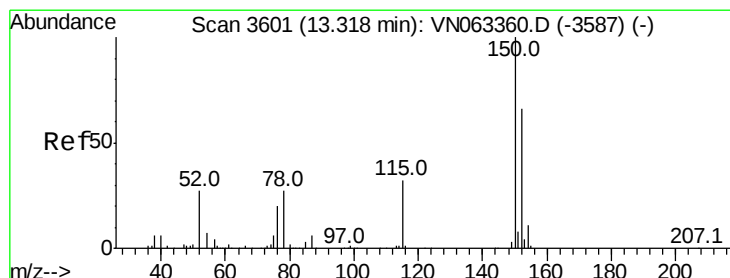
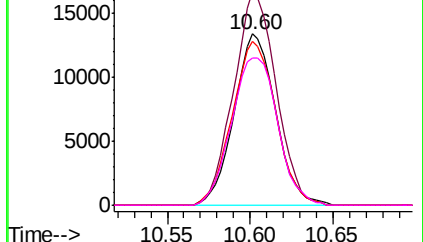
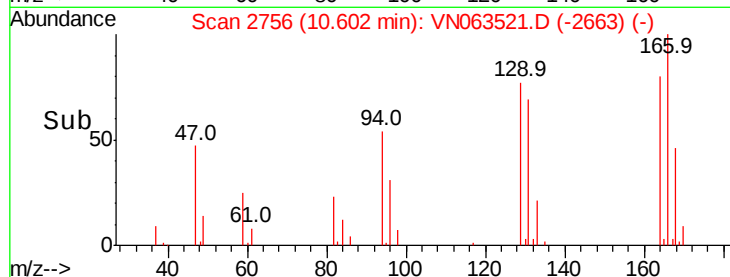


Abundance Ion 163.80 (163.50 to 164.50): V

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: VN063521.D

Acq: 22 Sep 2020 6:29

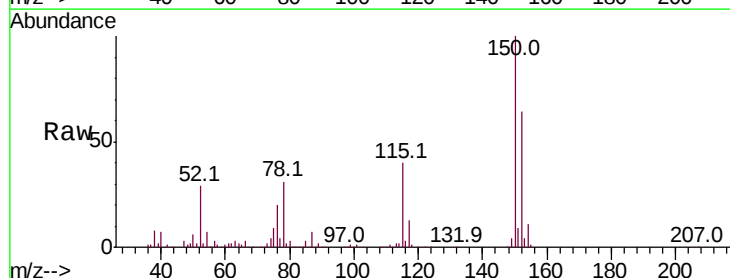
Tgt Ion:152 Resp: 179081

Ion Ratio Lower Upper

152 100

115 63.3 32.2 96.6

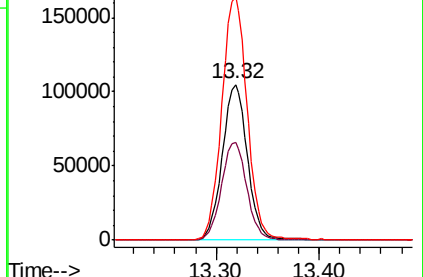
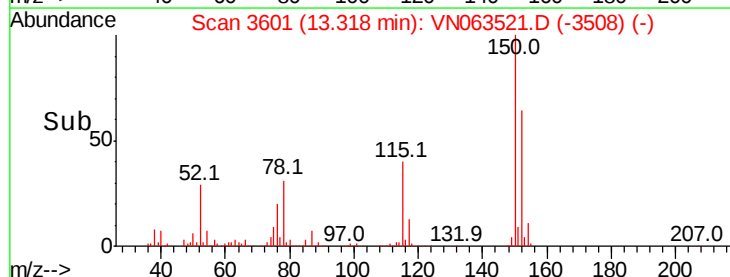
150 156.7 0.0 343.4

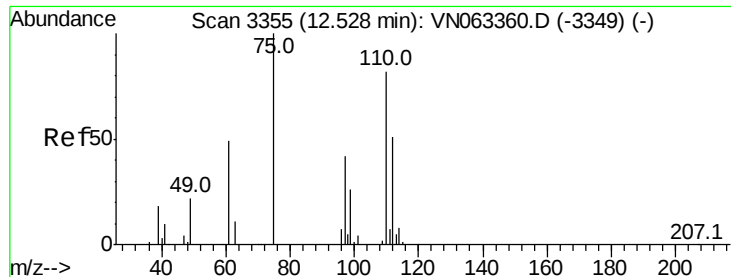


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.786 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063521.D

Acq: 22 Sep 2020 6:29

Instrument :

MSVOA_N

ClientSampleId :

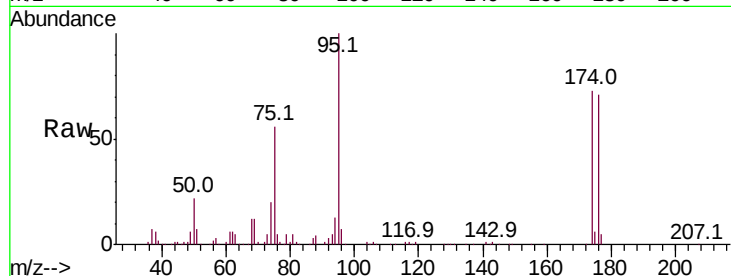
RE131D3-20200916

Tot Ion: 75 Resp: 118727

Ion Ratio Lower Upper

75 100

77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.38

80000

60000

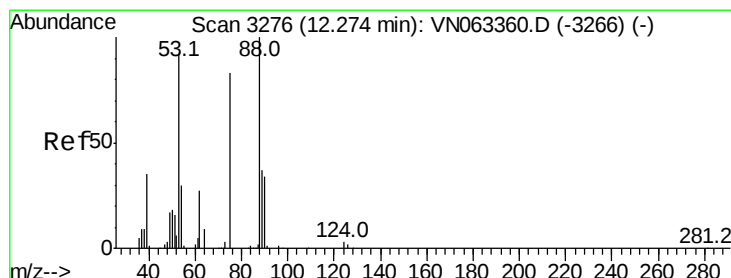
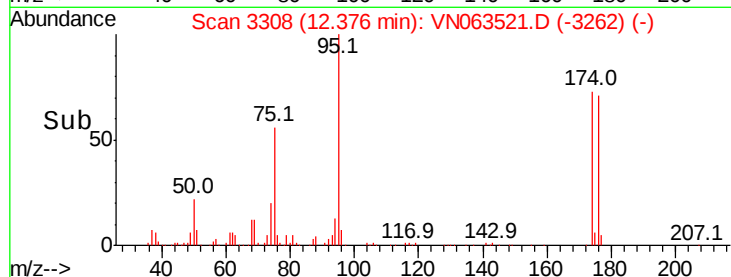
40000

20000

0

Time-->

12.30 12.35 12.40 12.45



#81

trans-1,4-Dichloro-2-butene

Concen: 73.436 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063521.D

Acq: 22 Sep 2020 6:29

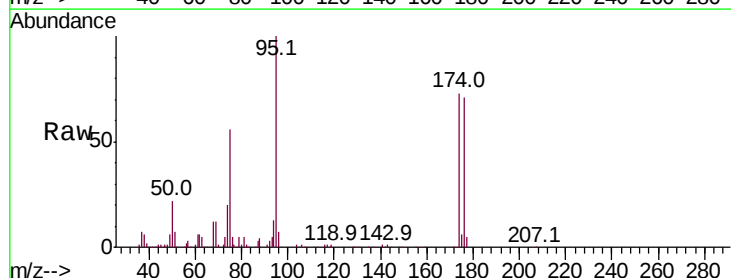
Tgt Ion: 75 Resp: 118727

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

12.38

80000

60000

40000

20000

0

Time-->

12.30 12.35 12.40 12.45

