

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092220\
 Data File : VN063538.D
 Acq On : 22 Sep 2020 17:20
 Operator : JC/MD
 Sample : L4082-19DL 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D3-20200916DL

Quant Time: Sep 23 04:02:12 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	206627	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	381358	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	388163	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	176085	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	173947	49.45	ug/l	0.00
Spiked Amount			Recovery	=	98.90%	
35) Dibromofluoromethane	7.55	113	126856	48.05	ug/l	0.00
Spiked Amount			Recovery	=	96.10%	
50) Toluene-d8	10.06	98	493936	49.76	ug/l	0.00
Spiked Amount			Recovery	=	99.52%	
62) 4-Bromofluorobenzene	12.38	95	204154	56.10	ug/l	0.00
Spiked Amount			Recovery	=	112.20%	

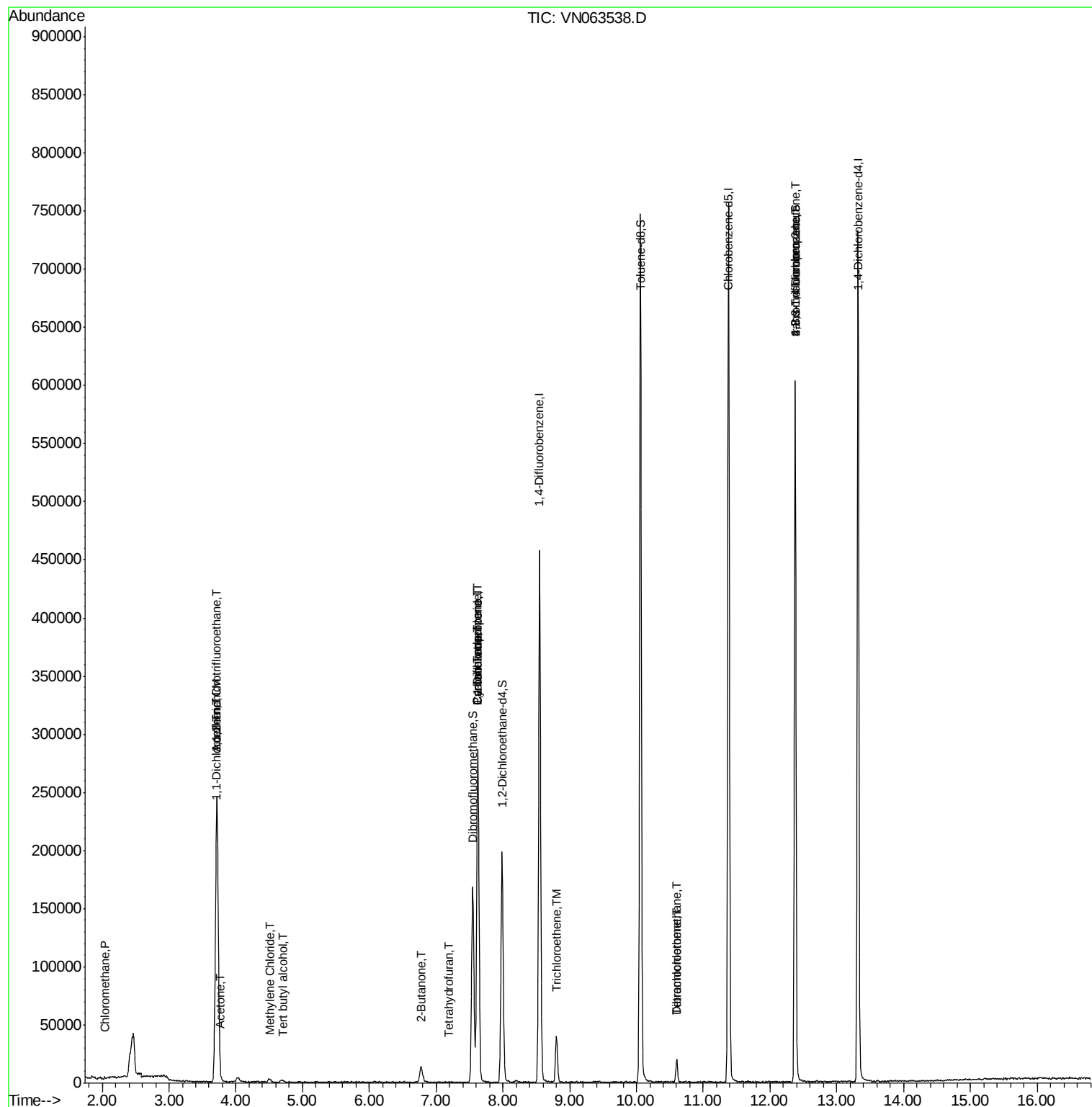
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	722	0.233	ug/l #	54
9) 1,1,2-Trichlorotrifluoroet	3.72	101	152285	66.150	ug/l	98
11) Tert butyl alcohol	4.70	59	135	0.277	ug/l #	72
12) 1,1-Dichloroethene	3.69	96	752	0.323	ug/l #	33
13) Acrolein	3.71	56	67	0.371	ug/l #	13
16) Acetone	3.78	43	628	0.556	ug/l #	84
20) Methylene Chloride	4.52	84	1626	0.568	ug/l #	60
25) 2-Butanone	6.78	43	788	0.453	ug/l #	51
29) Tetrahydrofuran	7.18	42	272	0.229	ug/l #	36
31) Cyclohexane	7.63	56	6798	1.399	ug/l #	44
36) 1,1-Dichloropropene	7.62	75	18460	4.544	ug/l #	52
38) Carbon Tetrachloride	7.63	117	23689	5.712	ug/l #	17
44) Trichloroethene	8.80	130	13711	4.874	ug/l	99
60) Dibromochloromethane	10.60	129	3918	1.252	ug/l #	10
64) Tetrachloroethene	10.60	164	4338	1.641	ug/l	95
76) 1,2,3-Trichloropropane	12.38	75	114053	26.169	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	114053	71.745	ug/l #	7

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063538.D

Acq: 22 Sep 2020 17:20

Instrument :

MSVOA_N

ClientSampleId :

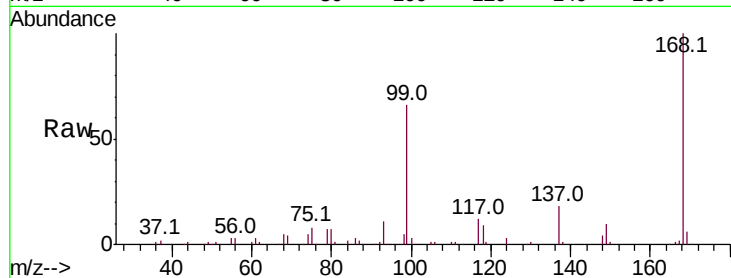
RE131D3-20200916DL

Tot Ion:168 Resp: 206627

Ion Ratio Lower Upper

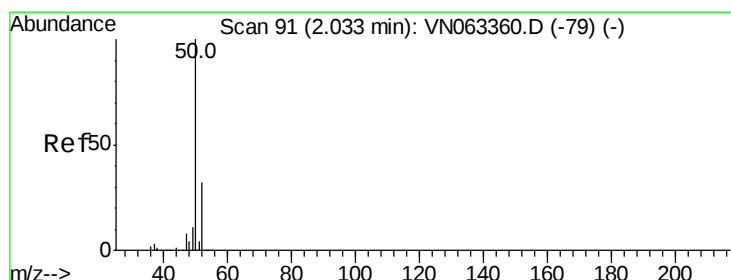
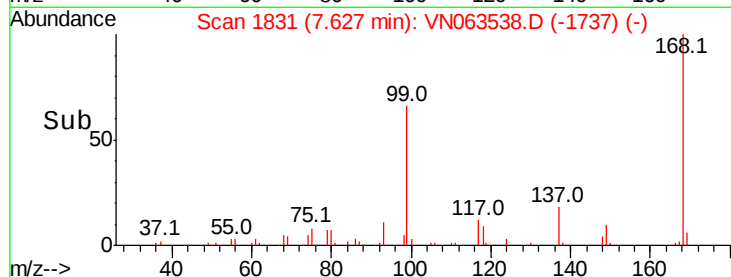
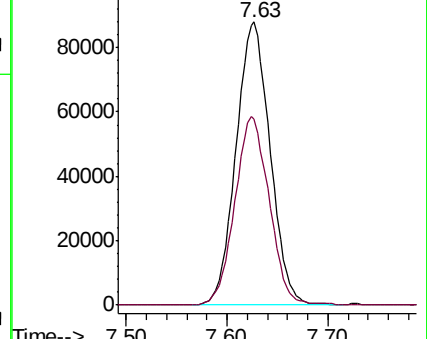
168 100

99 65.6 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: 0.233 ug/l

RT: 2.04 min Scan# 92

Delta R.T. 0.00 min

Lab File: VN063538.D

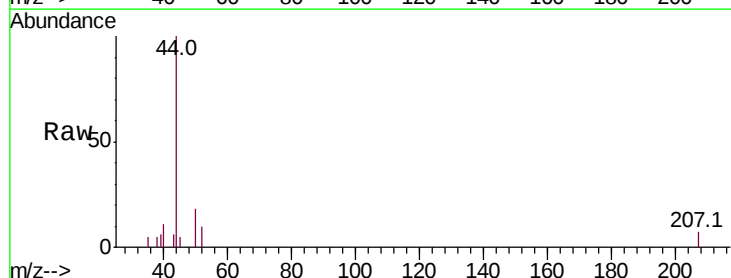
Acq: 22 Sep 2020 17:20

Tgt Ion: 50 Resp: 722

Ion Ratio Lower Upper

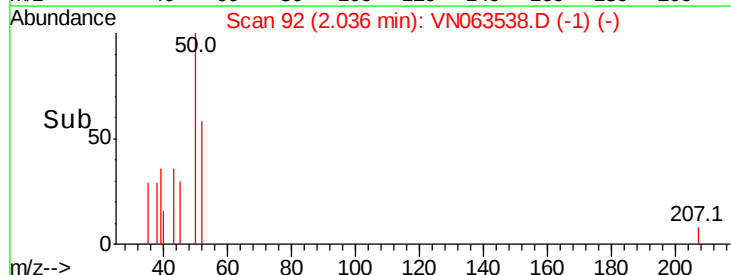
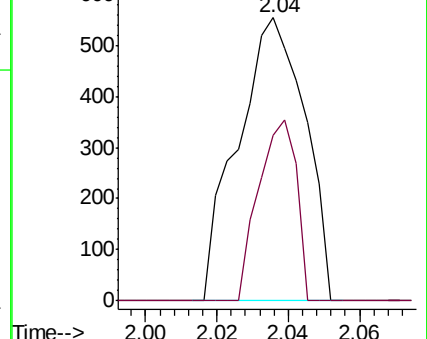
50 100

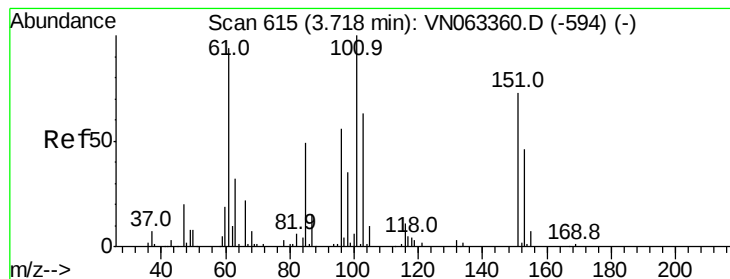
52 58.3 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#9

1,1,2-Trichlorotrifluoroethane

Concen: 66.150 ug/l

RT: 3.72 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN063538.D

Acq: 22 Sep 2020 17:20

Instrument :

MSVOA_N

ClientSampleId :

RE131D3-20200916DL

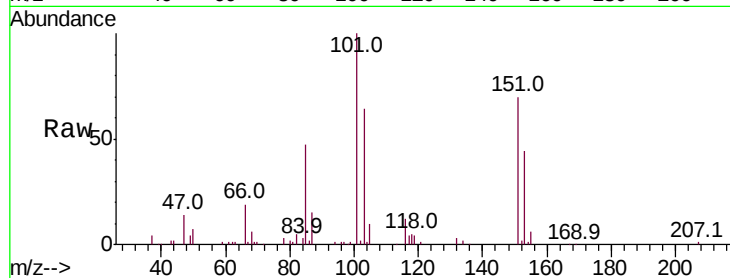
Tot Ion:101 Resp: 152285

Ion Ratio Lower Upper

101 100

85 47.7 37.7 56.5

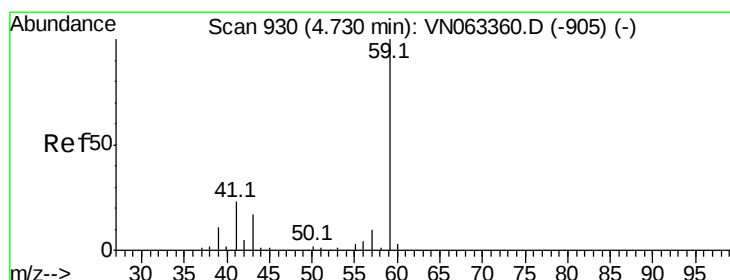
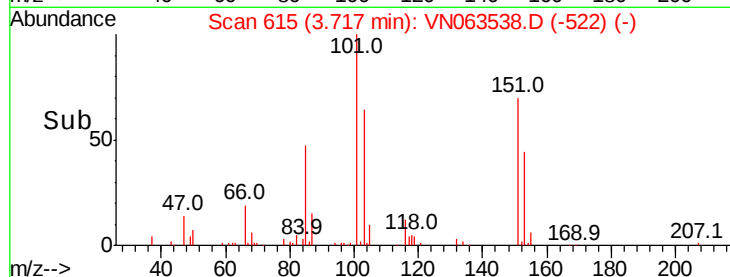
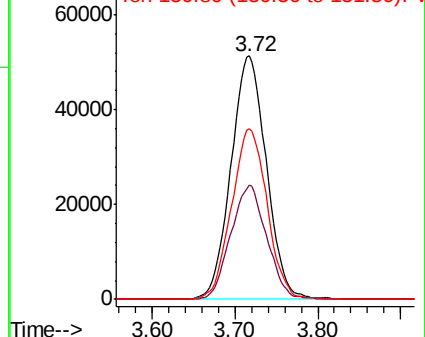
151 70.5 57.7 86.5



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 0.277 ug/l

RT: 4.70 min Scan# 920

Delta R.T. -0.03 min

Lab File: VN063538.D

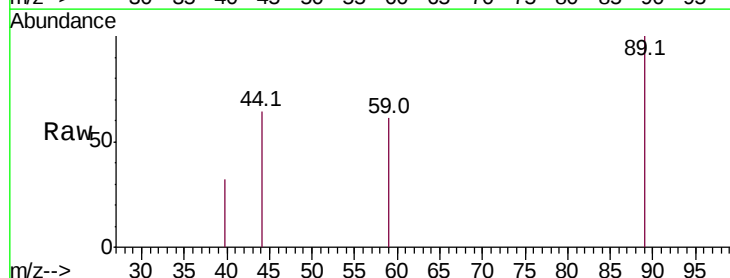
Acq: 22 Sep 2020 17:20

Tgt Ion: 59 Resp: 135

Ion Ratio Lower Upper

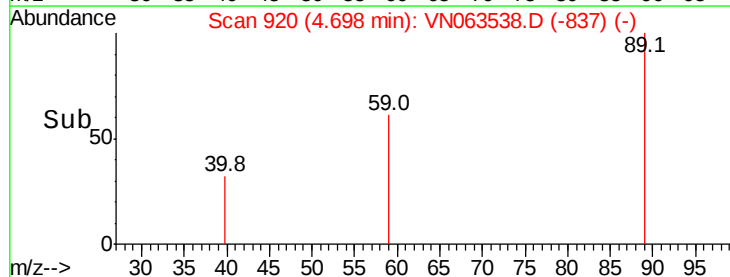
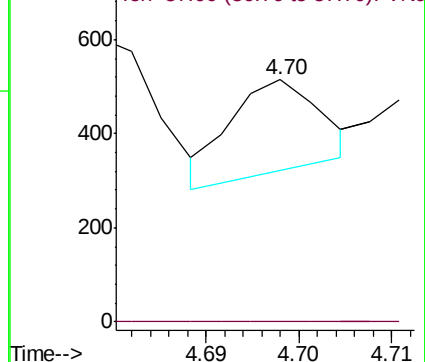
59 100

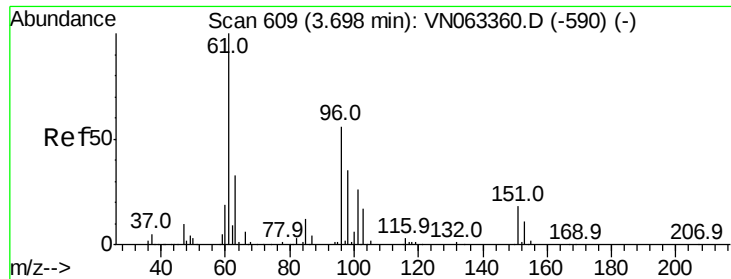
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#12

1,1-Dichloroethene

Concen: 0.323 ug/l

RT: 3.69 min Scan# 608

Delta R.T. -0.00 min

Lab File: VN063538.D

Acq: 22 Sep 2020 17:20

Instrument :

MSVOA_N

ClientSampleId :

RE131D3-20200916DL

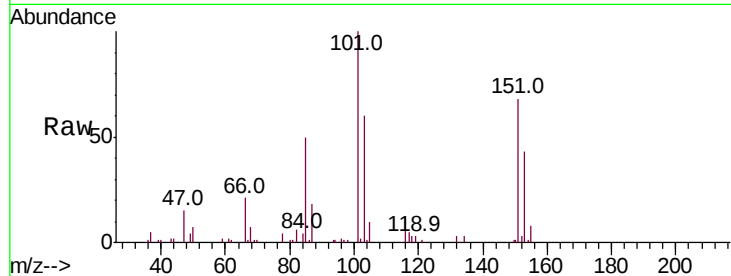
Tot Ion: 96 Resp: 752

Ion Ratio Lower Upper

96 100

61 87.4 143.4 215.2#

98 121.4 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

800

600

400

200

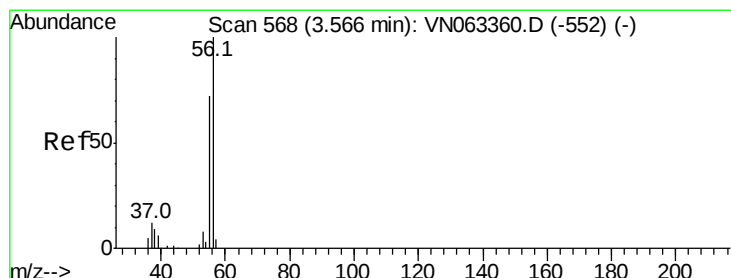
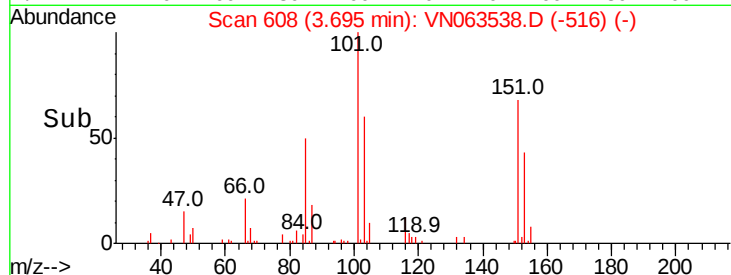
0

3.68

3.70

3.72

Time-->



#13

Acrolein

Concen: 0.371 ug/l

RT: 3.71 min Scan# 614

Delta R.T. 0.15 min

Lab File: VN063538.D

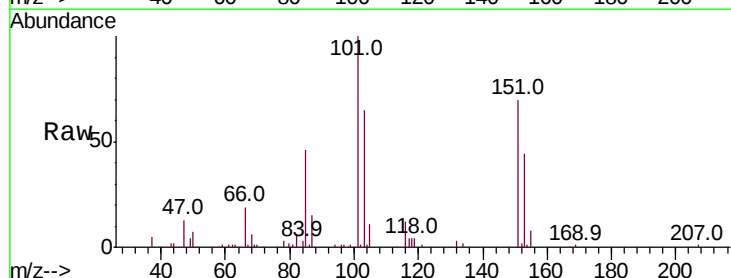
Acq: 22 Sep 2020 17:20

Tgt Ion: 56 Resp: 67

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

200

150

100

50

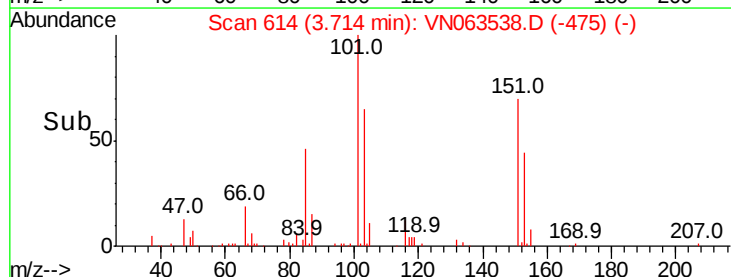
0

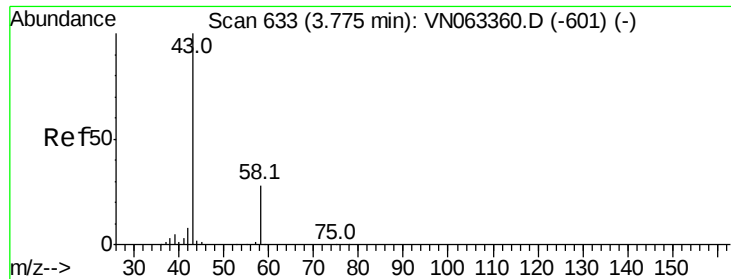
3.70

3.71

3.72

Time-->





#16

Acetone

Concen: 0.556 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063538.D

Acq: 22 Sep 2020 17:20

Instrument :

MSVOA_N

ClientSampleId :

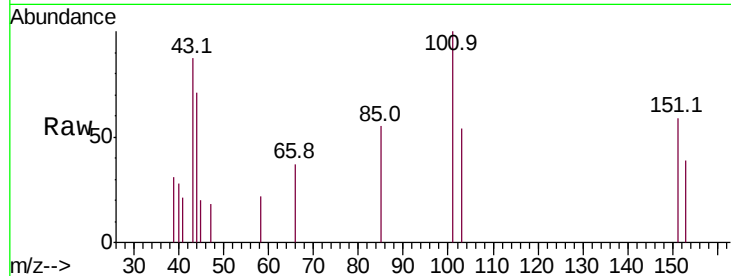
RE131D3-20200916DL

Tot Ion: 43 Resp: 628

Ion Ratio Lower Upper

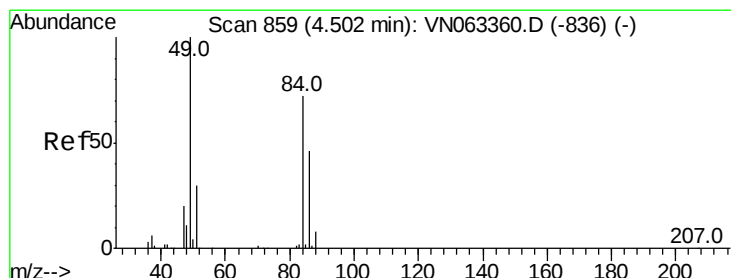
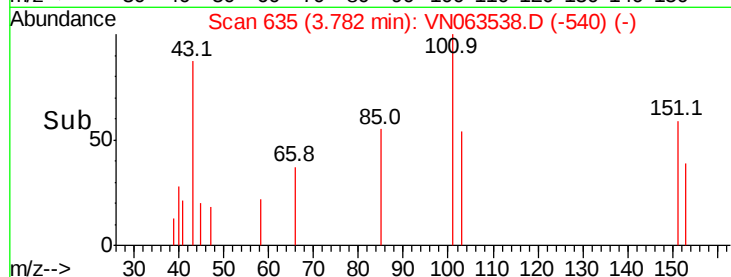
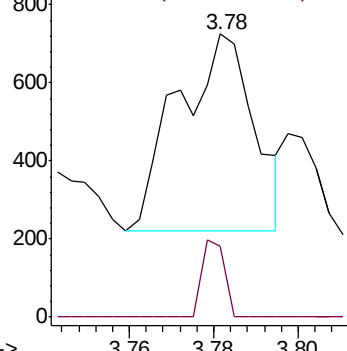
43 100

58 36.4 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#20

Methylene Chloride

Concen: 0.568 ug/l

RT: 4.52 min Scan# 864

Delta R.T. 0.02 min

Lab File: VN063538.D

Acq: 22 Sep 2020 17:20

Tgt Ion: 84 Resp: 1626

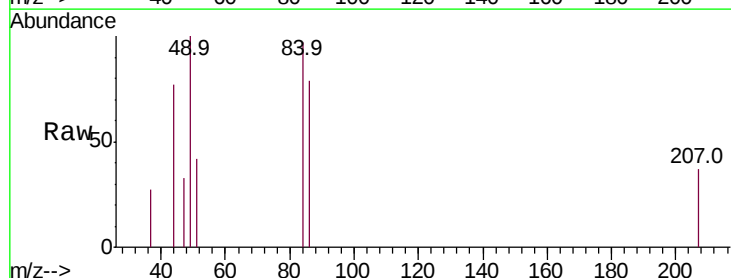
Ion Ratio Lower Upper

84 100

49 67.4 110.7 166.1#

51 42.6 32.9 49.3

86 81.0 51.1 76.7#

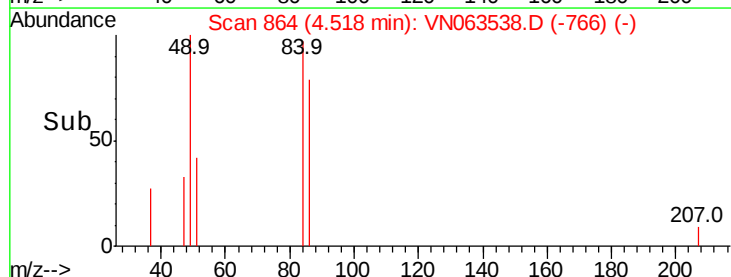
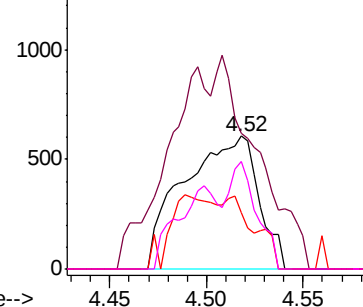


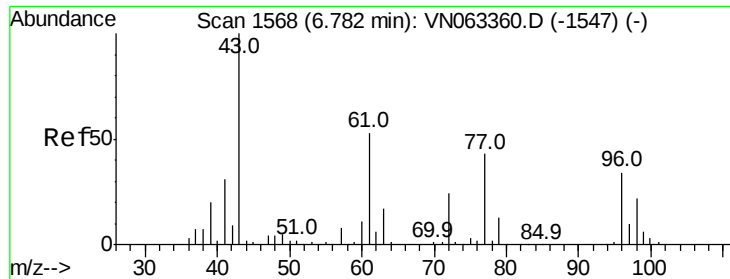
Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0

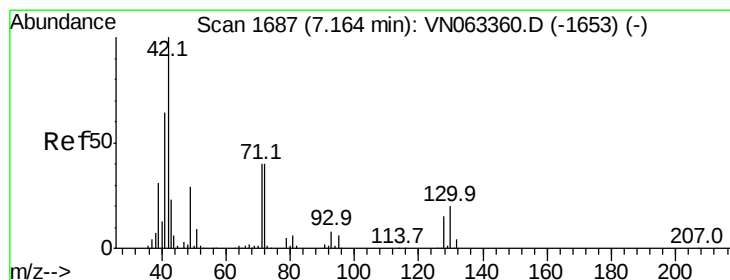
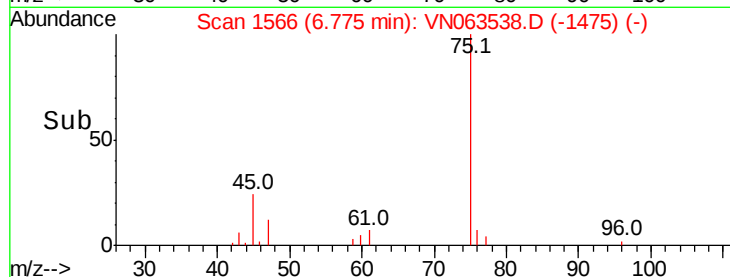
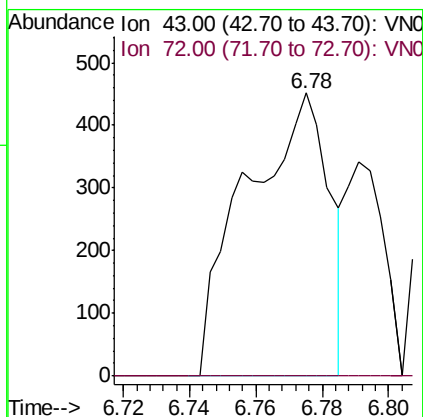
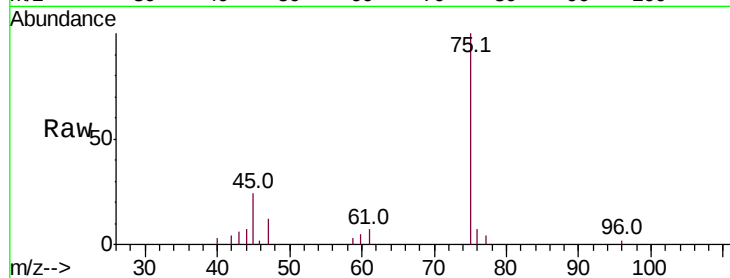




#25
2-Butanone
Concen: 0.453 ug/l
RT: 6.78 min Scan# 1566
Delta R.T. -0.01 min
Lab File: VN063538.D
Acq: 22 Sep 2020 17:20

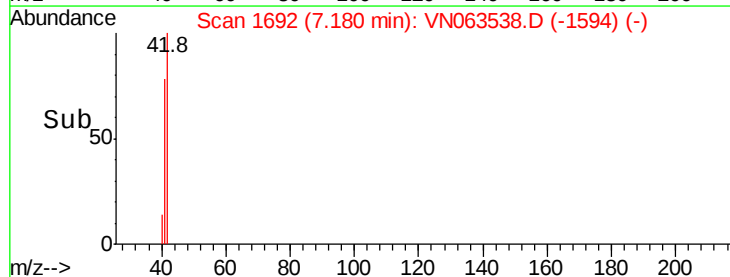
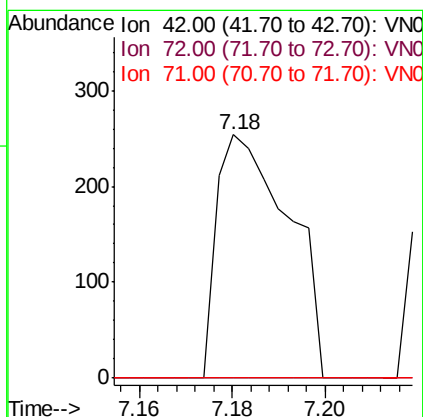
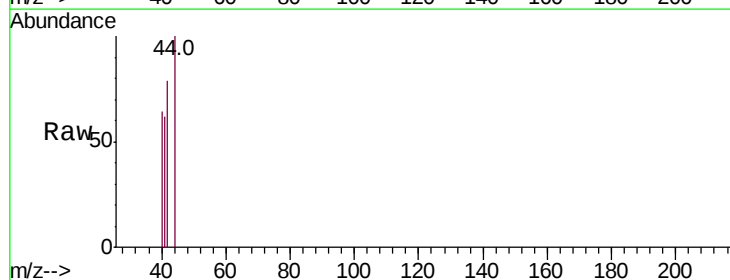
Instrument :
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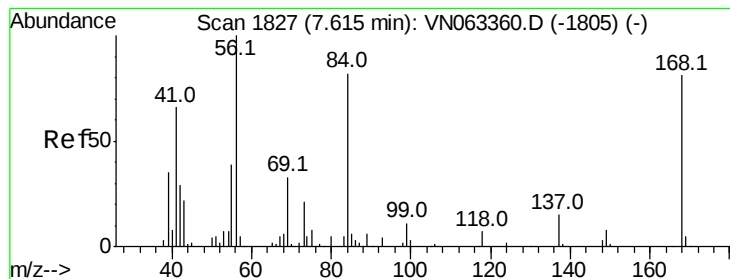
Tot Ion: 43 Resp: 788
Ion Ratio Lower Upper
43 100
72 0.0 19.2 28.8#



#29
Tetrahydrofuran
Concen: 0.229 ug/l
RT: 7.18 min Scan# 1692
Delta R.T. 0.02 min
Lab File: VN063538.D
Acq: 22 Sep 2020 17:20

Tgt Ion: 42 Resp: 272
Ion Ratio Lower Upper
42 100
72 0.0 32.1 48.1#
71 0.0 31.2 46.8#





#31

Cyclohexane

Concen: 1.399 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063538.D

Acq: 22 Sep 2020 17:20

Instrument :

MSVOA_N

ClientSampleId :

RE131D3-20200916DL

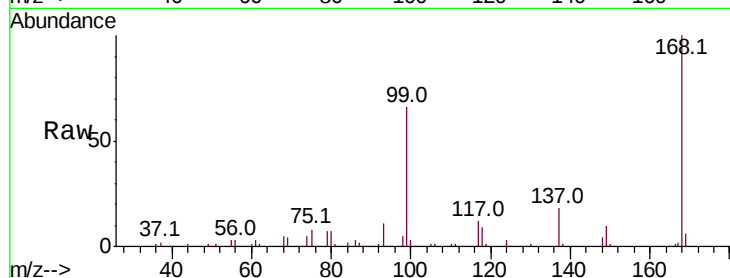
Tot Ion: 56 Resp: 6798

Ion Ratio Lower Upper

56 100

69 131.6 26.1 39.1#

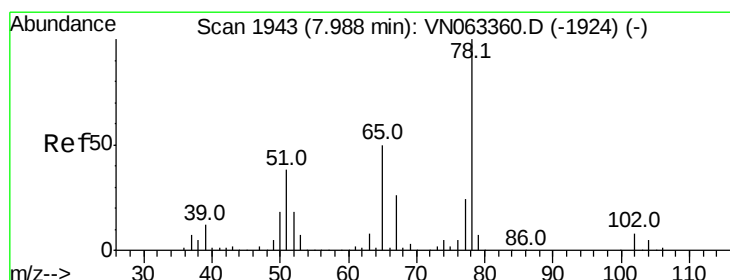
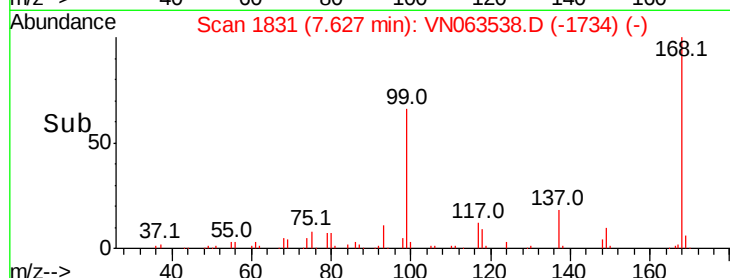
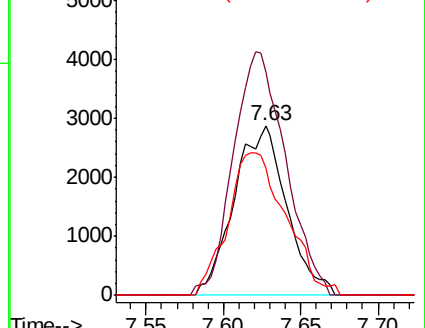
84 74.6 65.4 98.2



Abundance Ion 56.00 (55.70 to 56.70): VN063538.D (-1831) (-)

Ion 69.00 (68.70 to 69.70): VN063538.D (-1831) (-)

Ion 84.00 (83.70 to 84.70): VN063538.D (-1831) (-)



#33

1,2-Dichloroethane-d4

Concen: 49.454 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063538.D

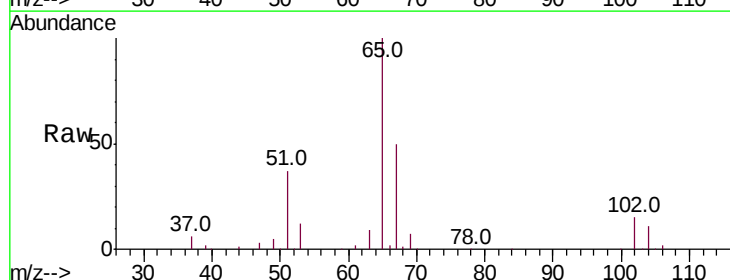
Acq: 22 Sep 2020 17:20

Tgt Ion: 65 Resp: 173947

Ion Ratio Lower Upper

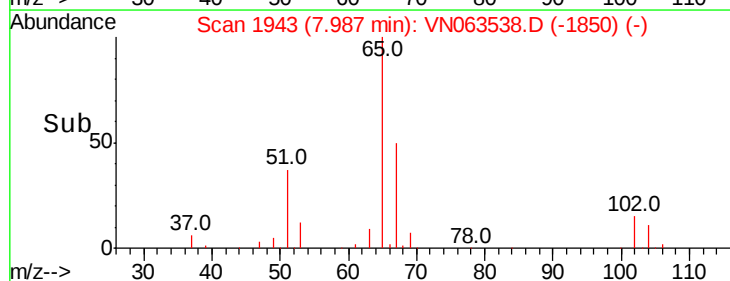
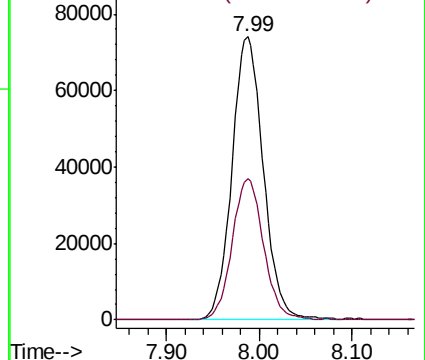
65 100

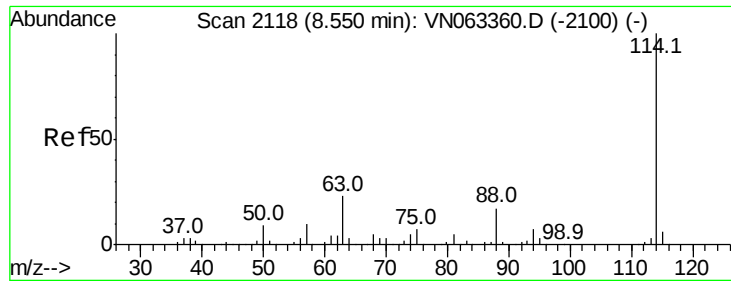
67 49.8 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN063538.D (-1943) (-)

Ion 66.90 (66.60 to 67.60): VN063538.D (-1943) (-)

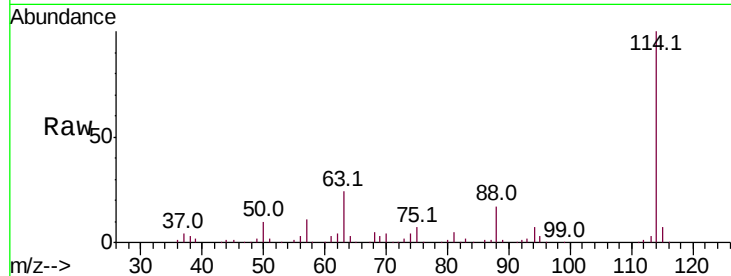




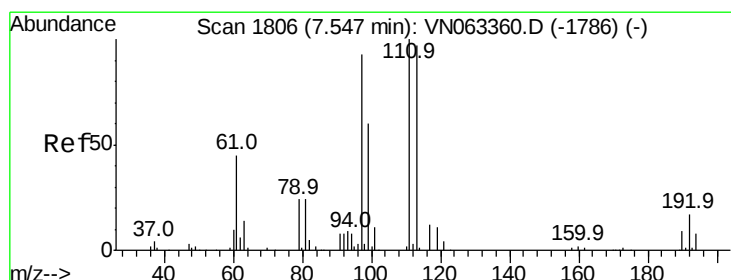
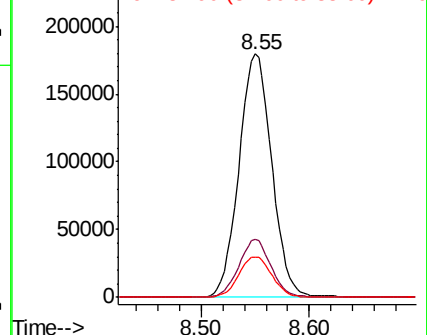
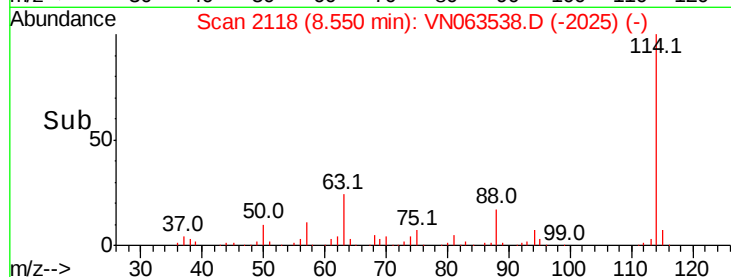
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063538.D
 Acq: 22 Sep 2020 17:20

Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D3-20200916DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.0	0.0	46.4
88	16.7	0.0	33.2

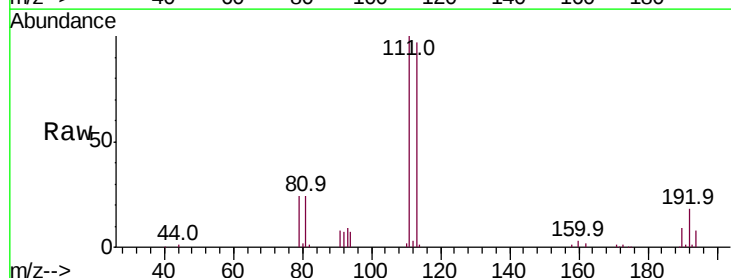


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

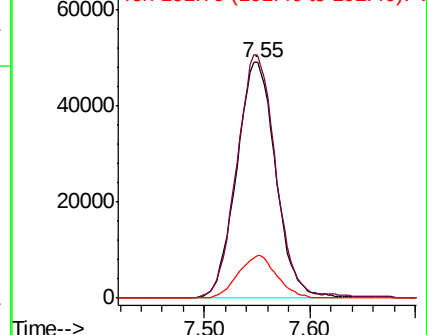
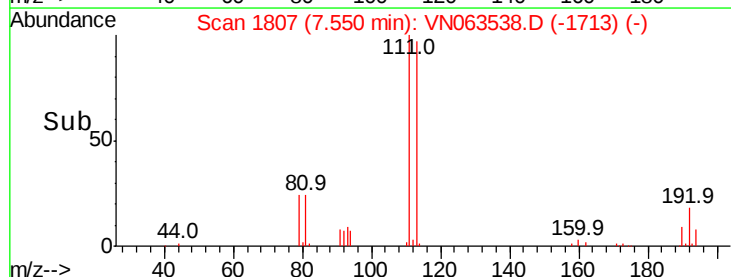


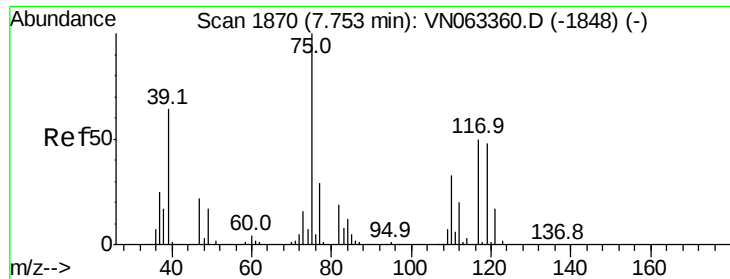
#35
 Dibromofluoromethane
 Concen: 48.050 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063538.D
 Acq: 22 Sep 2020 17:20

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.9	82.9	124.3
192	17.7	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: 4.544 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. -0.13 min

Lab File: VN063538.D

Acq: 22 Sep 2020 17:20

Instrument :

MSVOA_N

ClientSampleId :

RE131D3-20200916DL

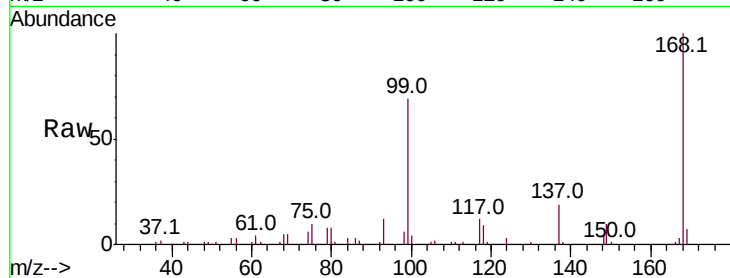
Tot Ion: 75 Resp: 18460

Ion Ratio Lower Upper

75 100

110 9.7 16.5 49.5#

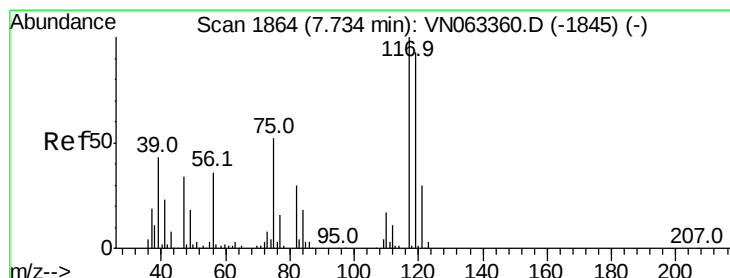
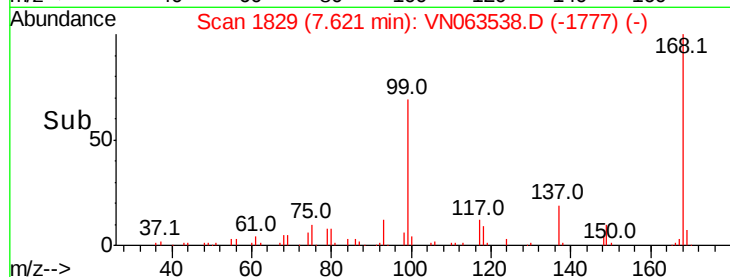
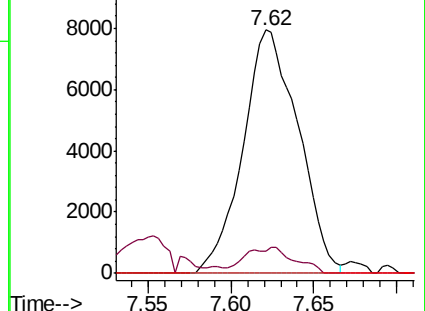
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VN063538.D (-1777) (-)

Ion 109.90 (109.60 to 110.60): VN063538.D (-1777) (-)

Ion 76.90 (76.60 to 77.60): VN063538.D (-1777) (-)



#38

Carbon Tetrachloride

Concen: 5.712 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063538.D

Acq: 22 Sep 2020 17:20

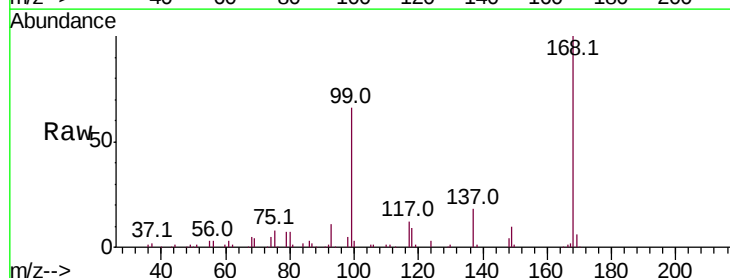
Tgt Ion: 117 Resp: 23689

Ion Ratio Lower Upper

117 100

119 4.4 74.5 111.7#

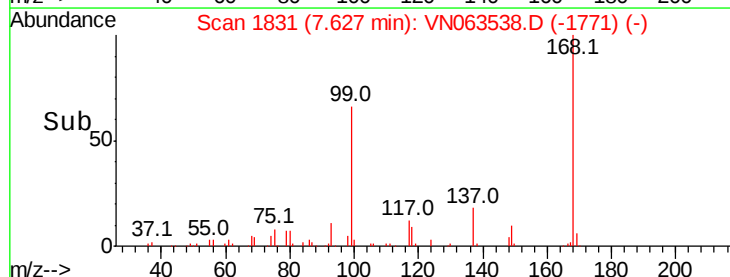
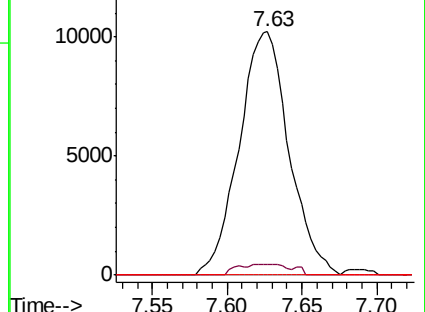
121 0.0 24.1 36.1#

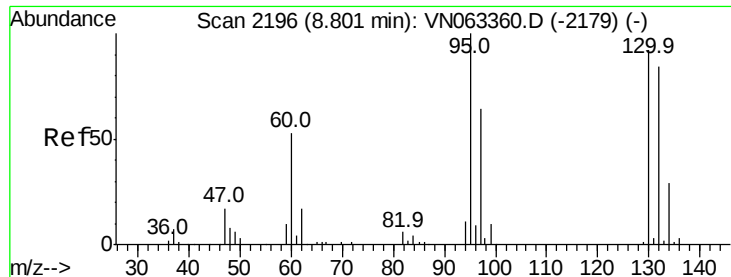


Abundance Ion 116.80 (116.50 to 117.50): VN063538.D (-1771) (-)

Ion 118.80 (118.50 to 119.50): VN063538.D (-1771) (-)

Ion 120.80 (120.50 to 121.50): VN063538.D (-1771) (-)





#44

Trichloroethene

Concen: 4.874 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN063538.D

Acq: 22 Sep 2020 17:20

Instrument :

MSVOA_N

ClientSampleId :

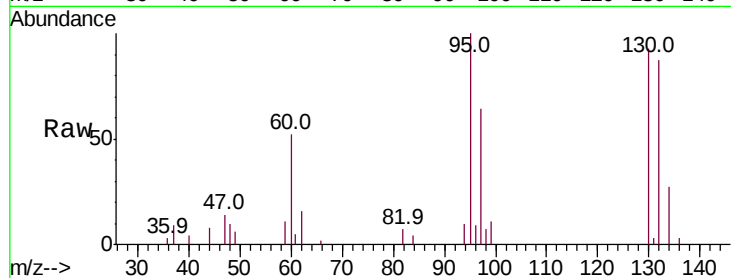
RE131D3-20200916DL

Tot Ion:130 Resp: 13711

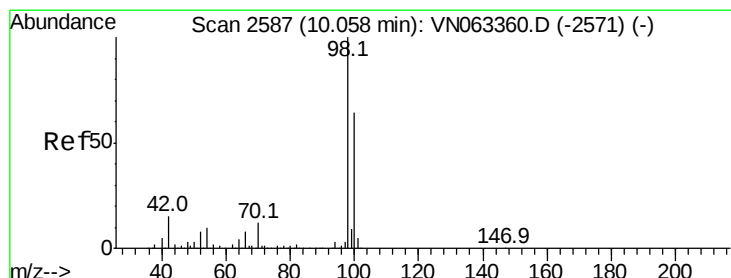
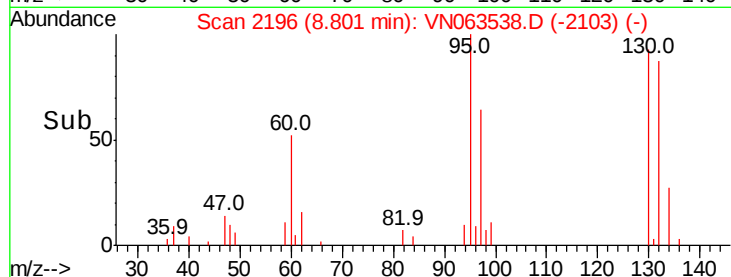
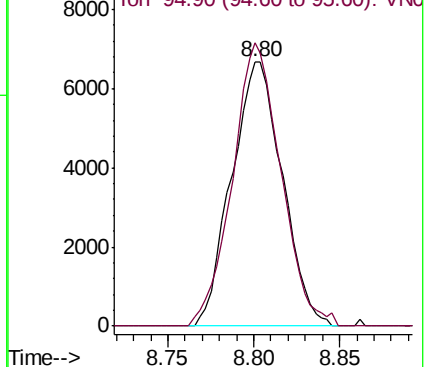
Ion Ratio Lower Upper

130 100

95 107.2 0.0 217.4



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



#50

Toluene-d8

Concen: 49.756 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063538.D

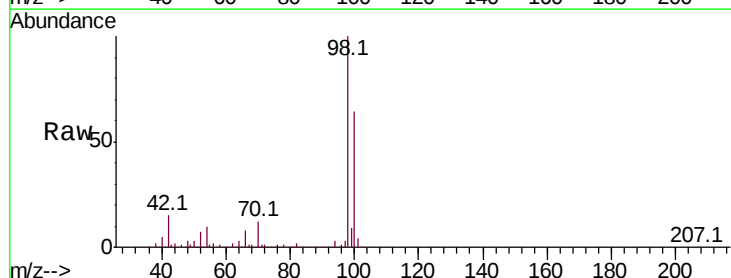
Acq: 22 Sep 2020 17:20

Tgt Ion: 98 Resp: 493936

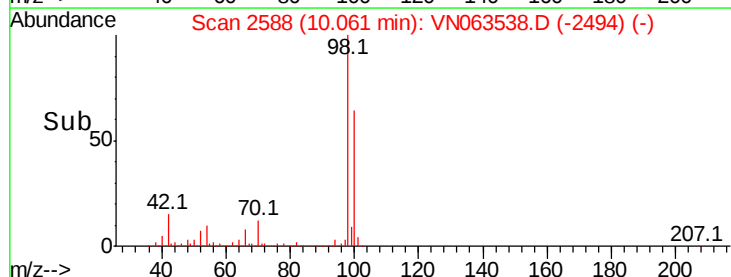
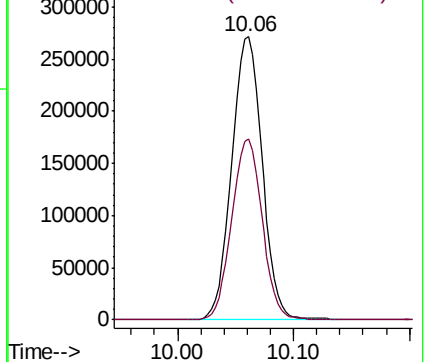
Ion Ratio Lower Upper

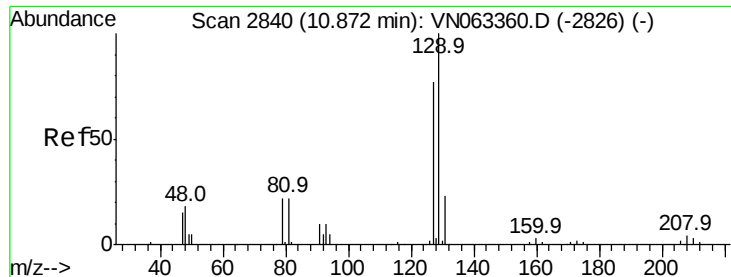
98 100

100 63.8 50.7 76.1



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





#60

Dibromochloromethane

Concen: 1.252 ug/l

RT: 10.60 min Scan# 2757

Delta R.T. -0.27 min

Lab File: VN063538.D

Acq: 22 Sep 2020 17:20

Instrument :

MSVOA_N

ClientSampleId :

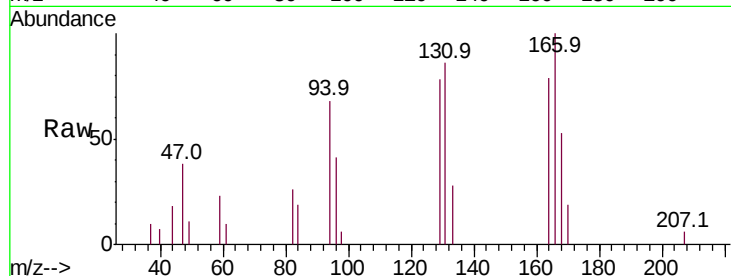
RE131D3-20200916DL

Tot Ion:129 Resp: 3918

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

2500

2000

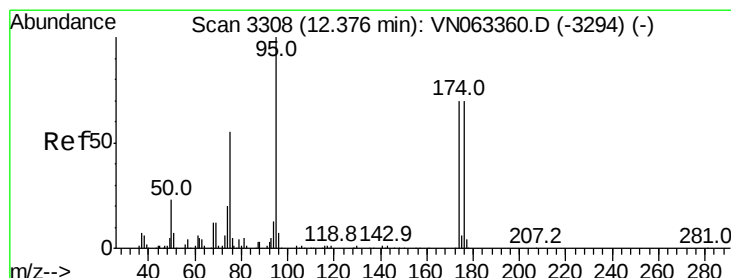
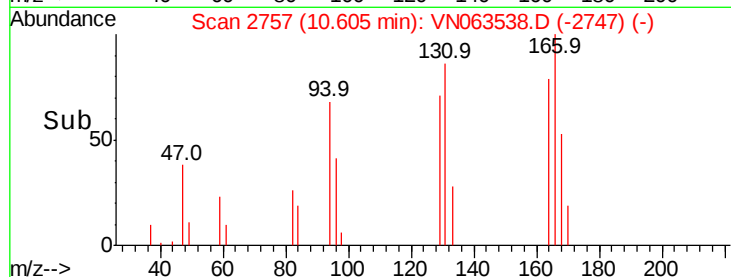
1500

1000

500

0

Time--> 10.55 10.60 10.65



#62

4-Bromofluorobenzene

Concen: 56.100 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063538.D

Acq: 22 Sep 2020 17:20

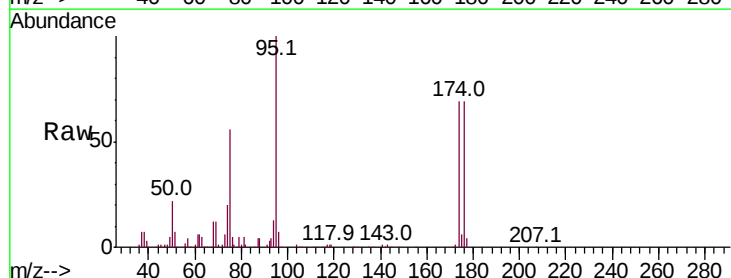
Tgt Ion: 95 Resp: 204154

Ion Ratio Lower Upper

95 100

174 71.6 0.0 140.8

176 69.6 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

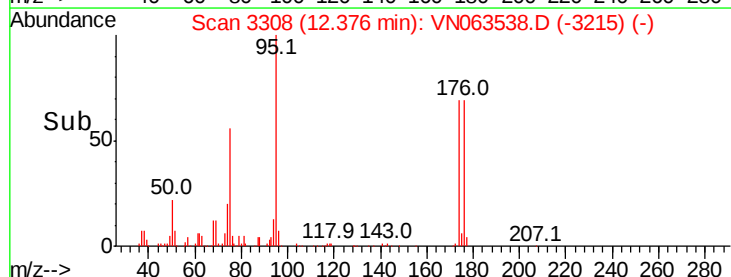
150000

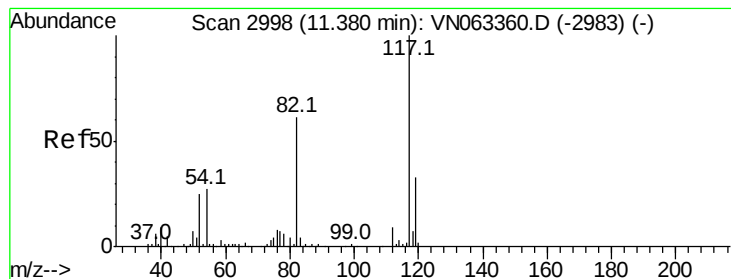
100000

50000

0

Time--> 12.30 12.35 12.40 12.45





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063538.D

Acq: 22 Sep 2020 17:20

Instrument :

MSVOA_N

ClientSampleId :

RE131D3-20200916DL

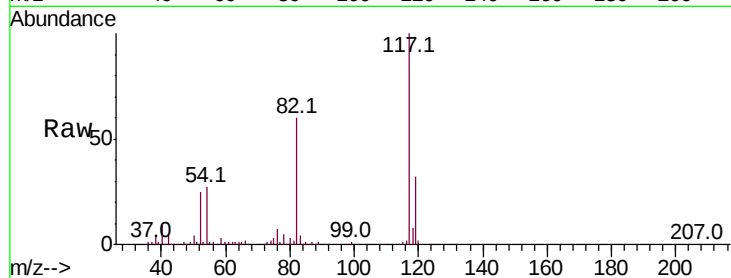
Tot Ion:117 Resp: 388163

Ion Ratio Lower Upper

117 100

82 60.2 49.2 73.8

119 32.2 26.2 39.4

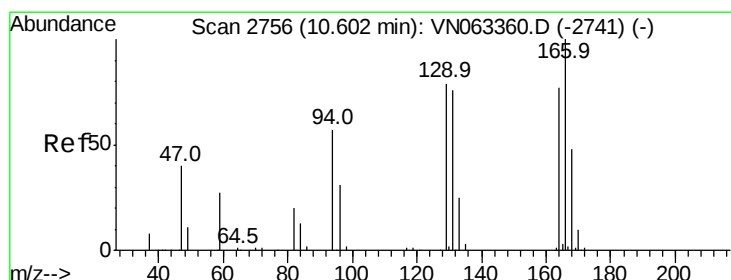
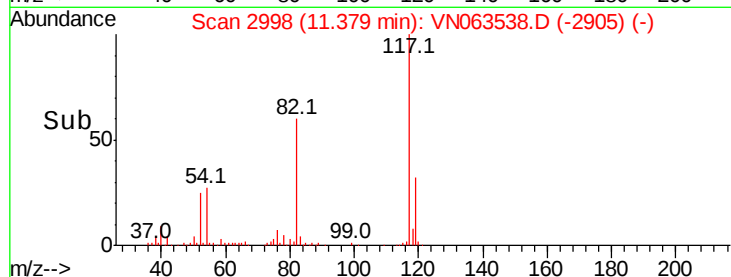
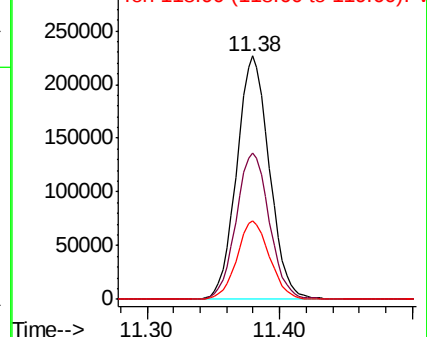


Abundance

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: 1.641 ug/l

RT: 10.60 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VN063538.D

Acq: 22 Sep 2020 17:20

Tgt Ion:164 Resp: 4338

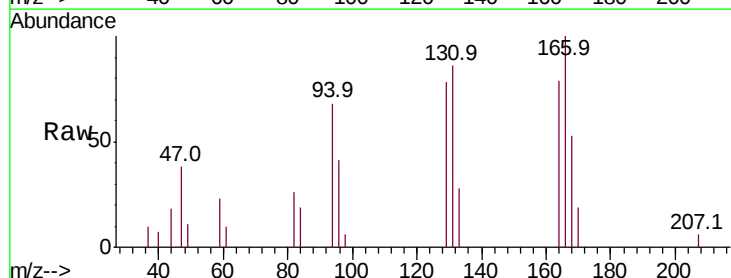
Ion Ratio Lower Upper

164 100

166 125.9 103.4 155.0

129 98.3 81.8 122.6

131 108.1 78.2 117.4



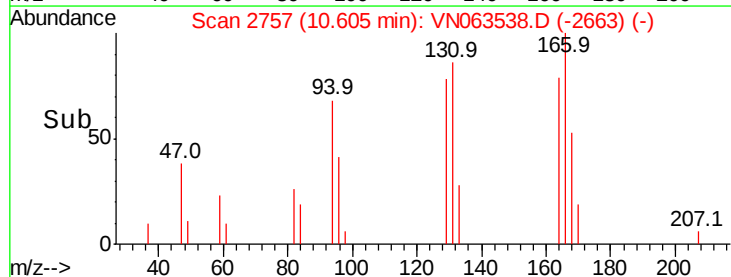
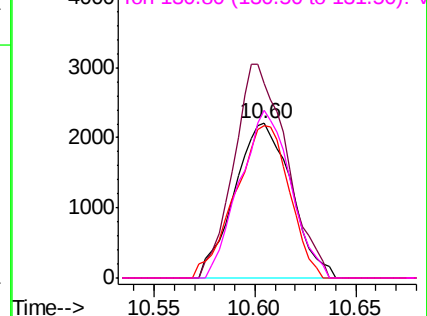
Abundance

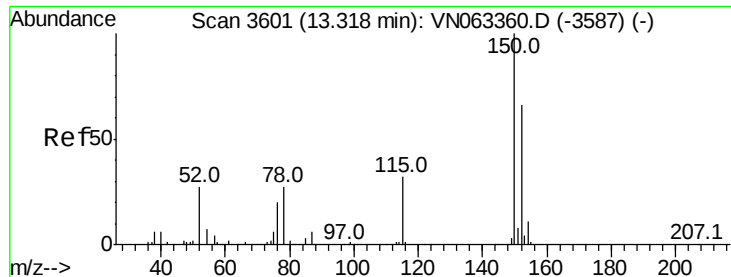
Ion 163.80 (163.50 to 164.50): V

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# 3601

Delta R.T. -0.00 min

Lab File: VN063538.D

Acq: 22 Sep 2020 17:20

Instrument :

MSVOA_N

ClientSampleId :

RE131D3-20200916DL

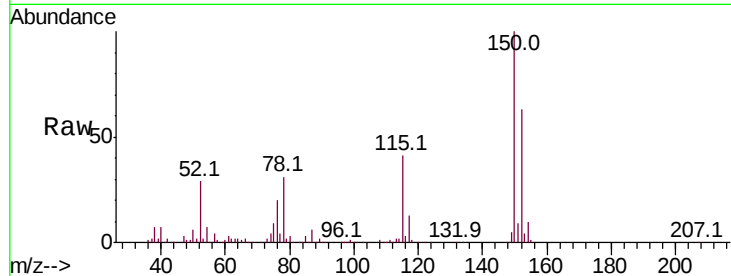
Tot Ion:152 Resp: 176085

Ion Ratio Lower Upper

152 100

115 64.1 32.2 96.6

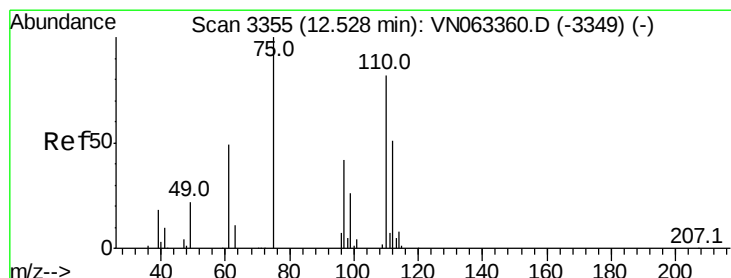
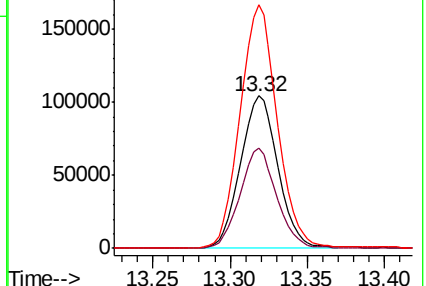
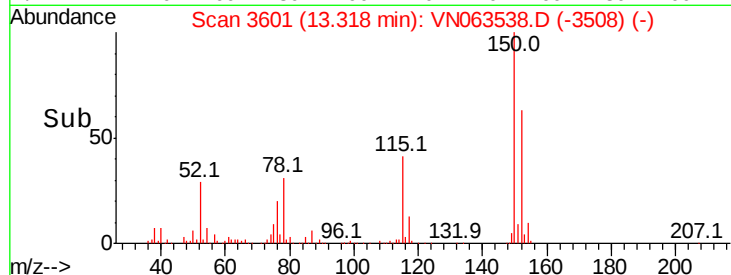
150 159.8 0.0 343.4



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: 26.169 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063538.D

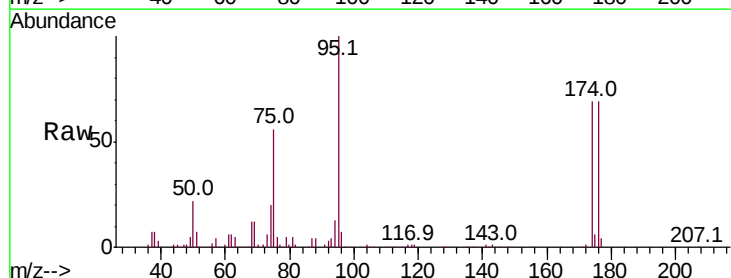
Acq: 22 Sep 2020 17:20

Tgt Ion: 75 Resp: 114053

Ion Ratio Lower Upper

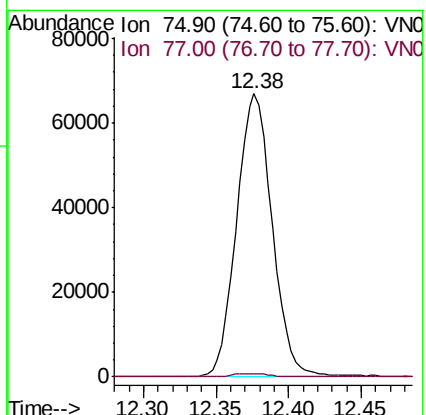
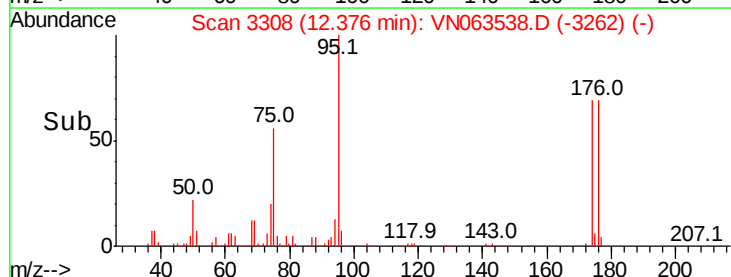
75 100

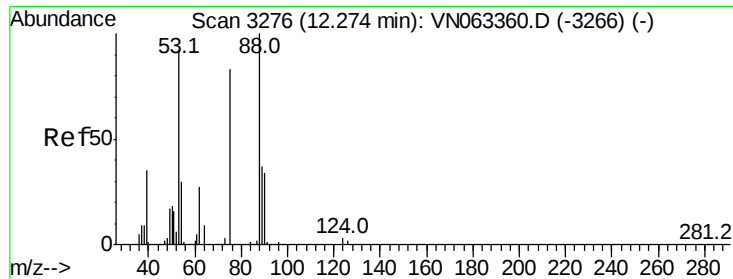
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 71.745 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063538.D

Acq: 22 Sep 2020 17:20

Instrument :

MSVOA_N

ClientSampleId :

RE131D3-20200916DL

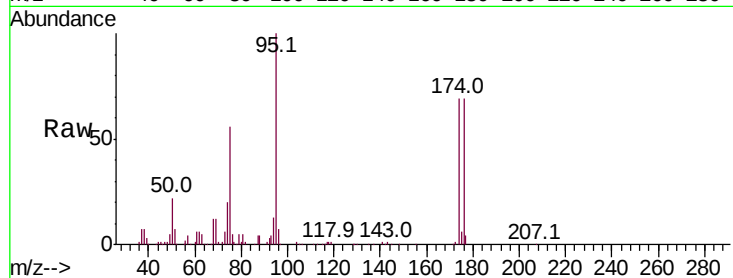
Tot Ion: 75 Resp: 114053

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

