

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092120\
 Data File : VN063515.D
 Acq On : 22 Sep 2020 4:06
 Operator : JC/MD
 Sample : L4082-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE134D3-20200915

Quant Time: Sep 22 05:00:36 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	229872	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	428663	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	432901	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	180916	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	186302	47.61	ug/l	0.00
Spiked Amount			Recovery	=	95.22%	
35) Dibromofluoromethane	7.55	113	139233	46.92	ug/l	0.00
Spiked Amount			Recovery	=	93.84%	
50) Toluene-d8	10.06	98	550224	49.31	ug/l	0.00
Spiked Amount			Recovery	=	98.62%	
62) 4-Bromofluorobenzene	12.38	95	217499	53.17	ug/l	0.00
Spiked Amount			Recovery	=	106.34%	

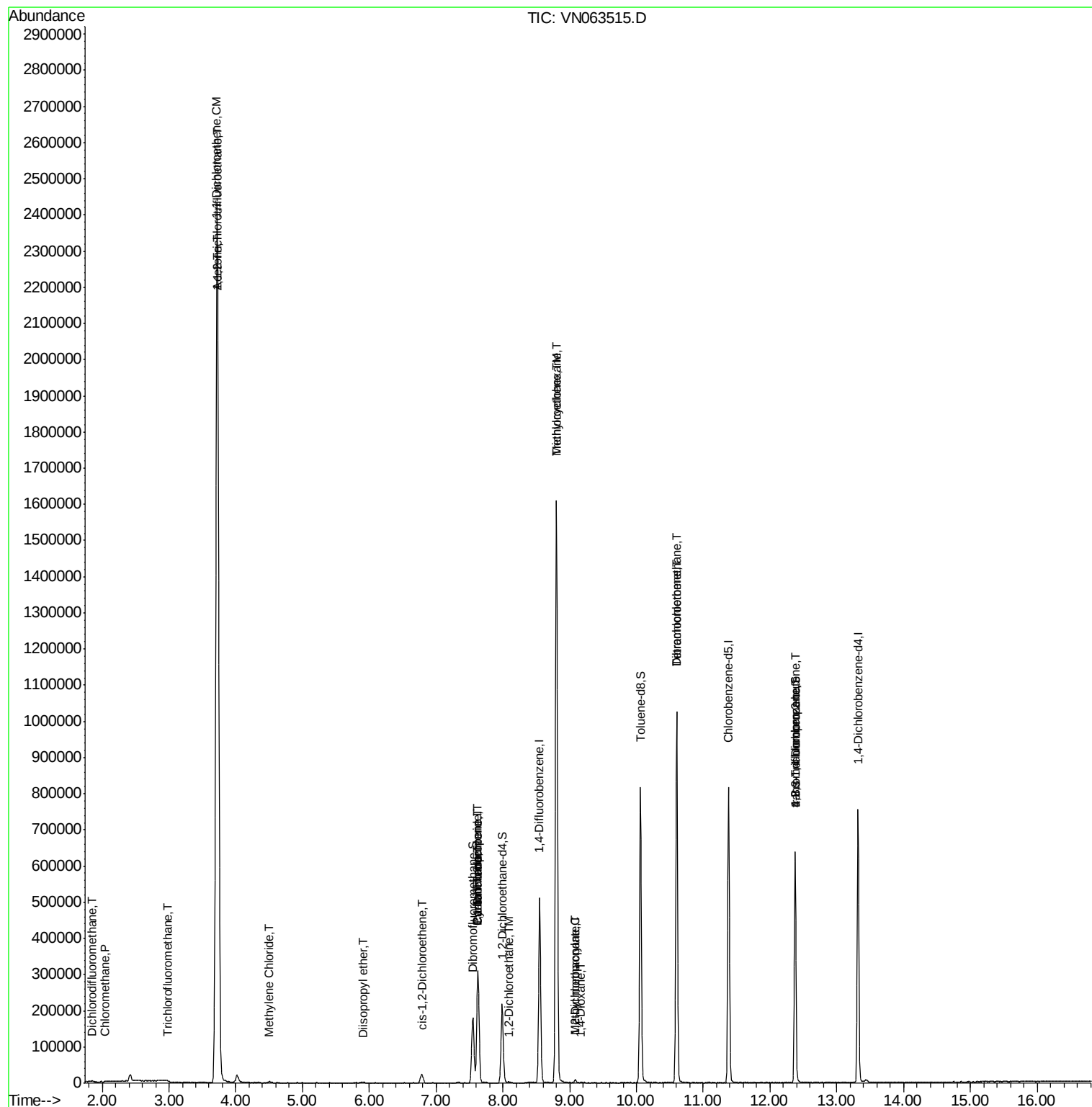
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	704	0.270	ug/l	73
3) Chloromethane	2.04	50	1914	0.556	ug/l	90
7) Trichlorofluoromethane	2.98	101	939	0.206	ug/l #	69
9) 1,1,2-Trichlorotrifluoroet	3.72	101	1492655	582.819	ug/l	99
12) 1,1-Dichloroethene	3.70	96	10880	4.194	ug/l	90
16) Acetone	3.72	43	22936	18.238	ug/l #	72
20) Methylene Chloride	4.50	84	1951	0.612	ug/l #	68
22) Diisopropyl ether	5.90	45	2110	0.202	ug/l #	77
27) cis-1,2-Dichloroethene	6.78	96	13553	4.166	ug/l	88
31) Cyclohexane	7.62	56	6573	1.216	ug/l #	23
36) 1,1-Dichloropropene	7.63	75	20482	4.485	ug/l #	51
38) Carbon Tetrachloride	7.63	117	24850	5.331	ug/l #	17
39) Methylcyclohexane	8.80	83	7075	1.427	ug/l #	1
42) 1,2-Dichloroethane	8.09	62	1906	0.364	ug/l #	78
44) Trichloroethene	8.80	130	538438	170.287	ug/l	98
45) 1,2-Dichloropropane	9.08	63	2664	0.750	ug/l	93
48) Methyl methacrylate	9.09	41	2031	0.516	ug/l #	39
49) 1,4-Dioxane	9.16	88	1640	29.023	ug/l #	78
60) Dibromochloromethane	10.60	129	209250	59.493	ug/l #	10
64) Tetrachloroethene	10.60	164	208434	70.710	ug/l	100
76) 1,2,3-Trichloropropane	12.38	75	123203	27.513	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	123203	75.431	ug/l #	7

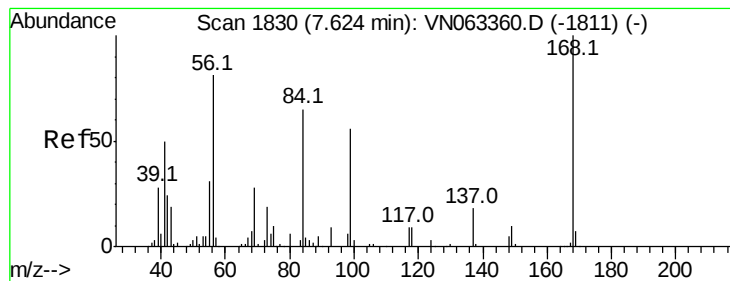
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092120\
Data File : VN063515.D
Acq On : 22 Sep 2020 4:06
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Sample : L4082-10
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Quant Time: Sep 22 05:00:36 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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063515.D

Acq: 22 Sep 2020 4:06

Instrument :

MSVOA_N

ClientSampleId :

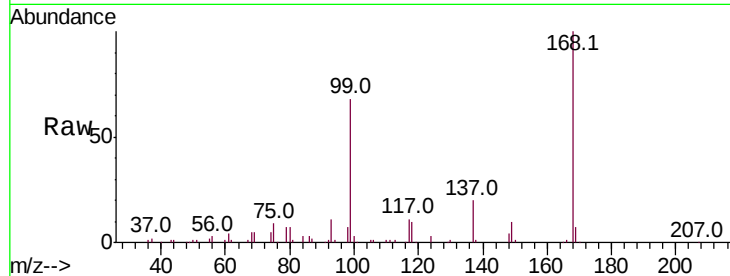
RE134D3-20200915

Tot Ion:168 Resp: 229872

Ion Ratio Lower Upper

168 100

99 67.8 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): VN063360.D (-1811) (-)

Ion 98.90 (98.60 to 99.60): VN063360.D (-1811) (-)

7.63

100000

80000

60000

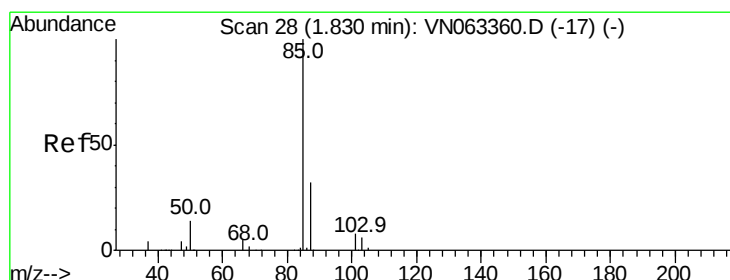
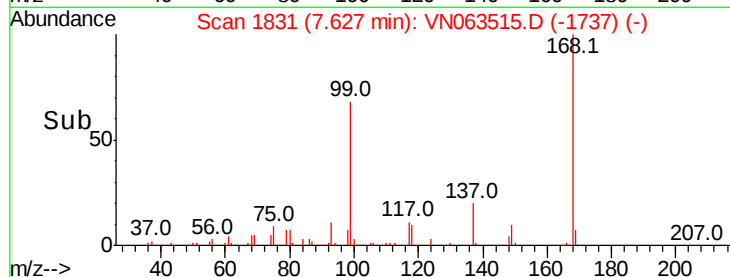
40000

20000

0

7.50 7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 0.270 ug/l

RT: 1.83 min Scan# 29

Delta R.T. 0.00 min

Lab File: VN063515.D

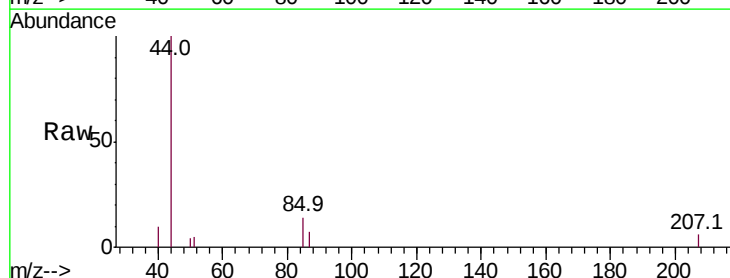
Acq: 22 Sep 2020 4:06

Tgt Ion: 85 Resp: 704

Ion Ratio Lower Upper

85 100

87 47.0 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VN063360.D (-17) (-)

Ion 86.90 (86.60 to 87.60): VN063360.D (-17) (-)

1.83

500

400

300

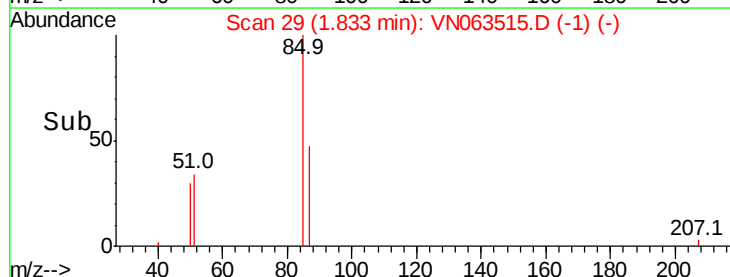
200

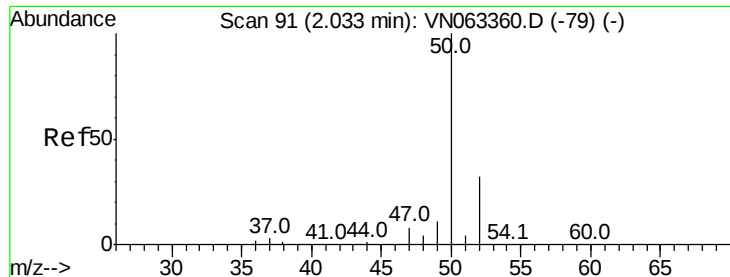
100

0

1.80 1.82 1.84 1.86

Time-->





#3

Chloromethane

Concen: 0.556 ug/l

RT: 2.04 min Scan# 92

Delta R.T. 0.00 min

Lab File: VN063515.D

Acq: 22 Sep 2020 4:06

Instrument :

MSVOA_N

ClientSampleId :

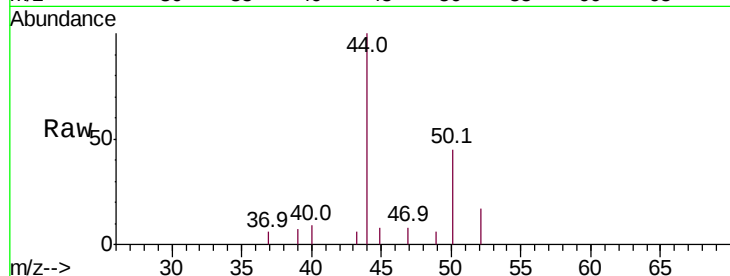
RE134D3-20200915

Tot Ion: 50 Resp: 1914

Ion Ratio Lower Upper

50 100

52 37.8 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.04

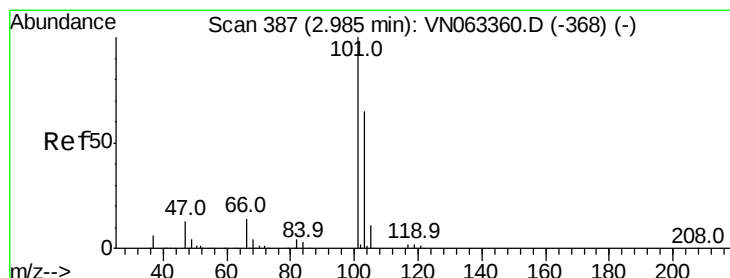
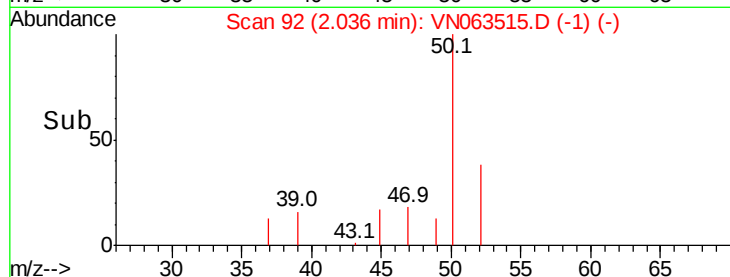
1500

1000

500

0

Time-->



#7

Trichlorofluoromethane

Concen: 0.206 ug/l

RT: 2.98 min Scan# 387

Delta R.T. -0.00 min

Lab File: VN063515.D

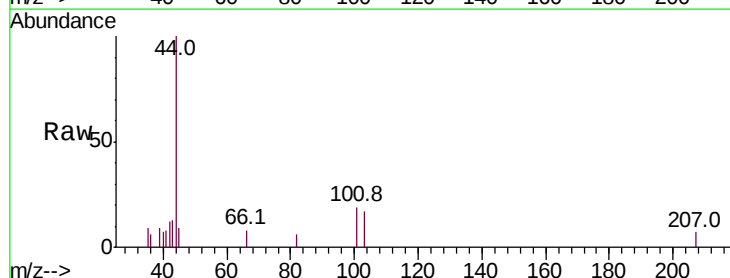
Acq: 22 Sep 2020 4:06

Tgt Ion: 101 Resp: 939

Ion Ratio Lower Upper

101 100

103 89.9 52.3 78.5#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

2.98

500

400

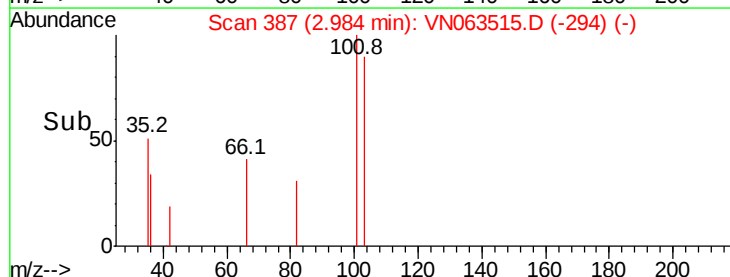
300

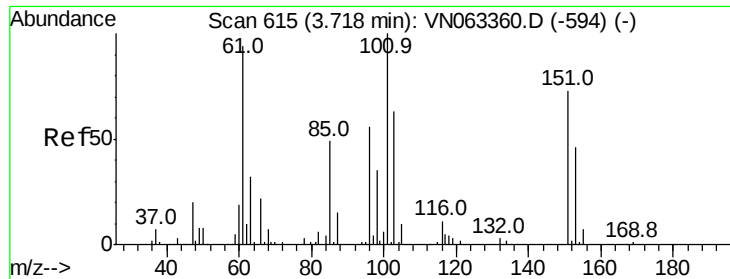
200

100

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 582.819 ug/l

RT: 3.72 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN063515.D

Acq: 22 Sep 2020 4:06

Instrument :

MSVOA_N

ClientSampleId :

RE134D3-20200915

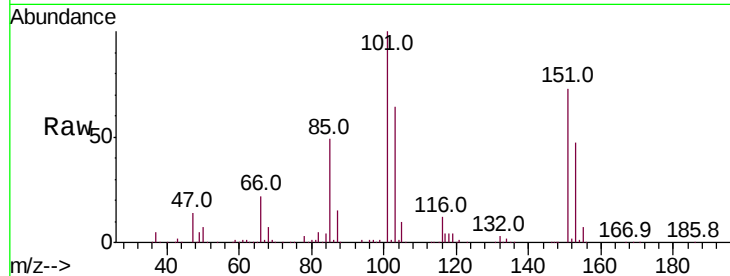
Tot Ion:101 Resp: 1492655

Ion Ratio Lower Upper

101 100

85 48.1 37.7 56.5

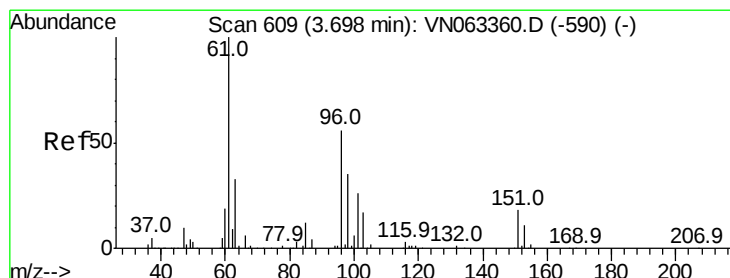
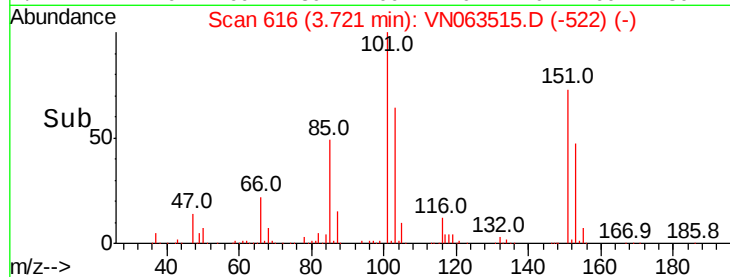
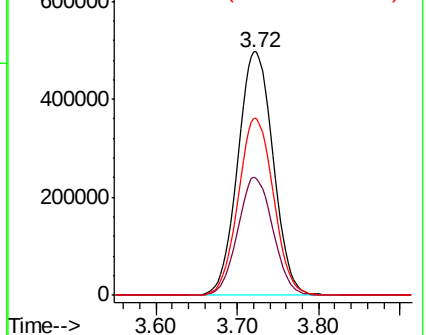
151 72.4 57.7 86.5



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#12

1,1-Dichloroethene

Concen: 4.194 ug/l

RT: 3.70 min Scan# 611

Delta R.T. 0.01 min

Lab File: VN063515.D

Acq: 22 Sep 2020 4:06

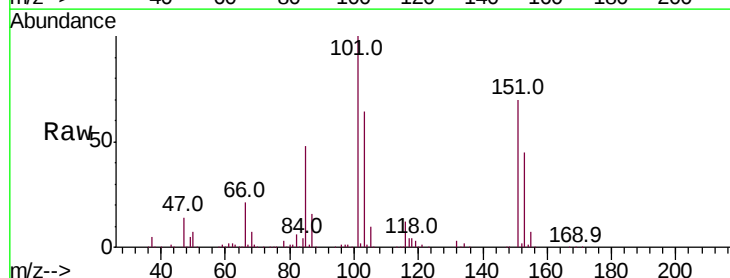
Tgt Ion: 96 Resp: 10880

Ion Ratio Lower Upper

96 100

61 164.3 143.4 215.2

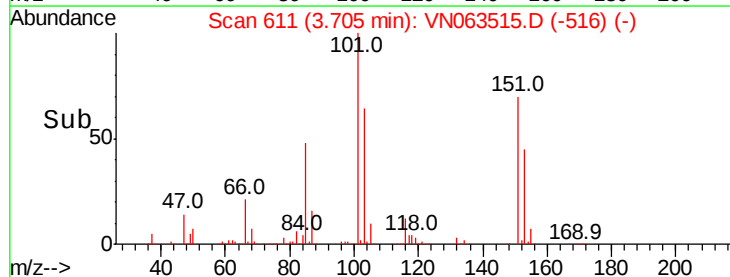
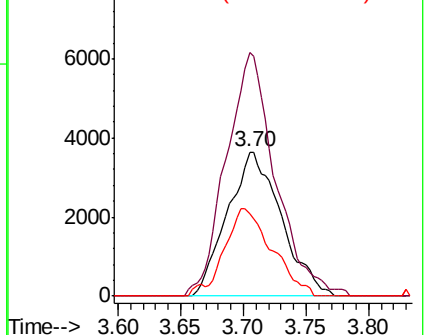
98 57.0 50.6 76.0

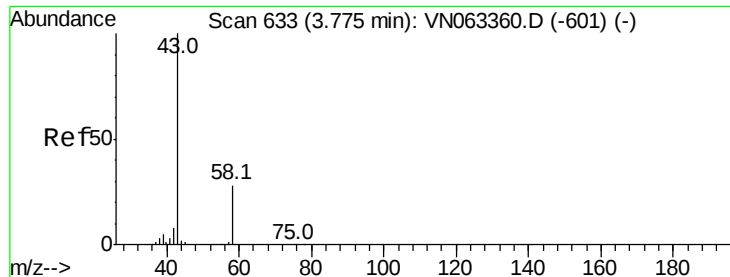


Abundance Ion 95.90 (95.60 to 96.60): VN

Ion 60.90 (60.60 to 61.60): VN

Ion 97.90 (97.60 to 98.60): VN





#16

Acetone

Concen: 18.238 ug/l

RT: 3.72 min Scan# 616

Delta R.T. -0.05 min

Lab File: VN063515.D

Acq: 22 Sep 2020 4:06

Instrument :

MSVOA_N

ClientSampleId :

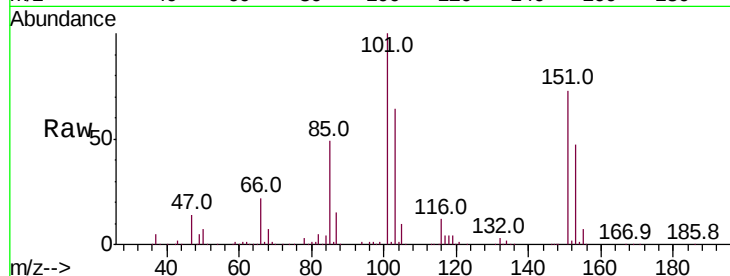
RE134D3-20200915

Tot Ion: 43 Resp: 22936

Ion Ratio Lower Upper

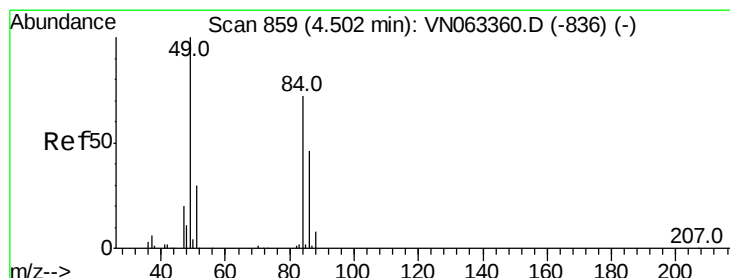
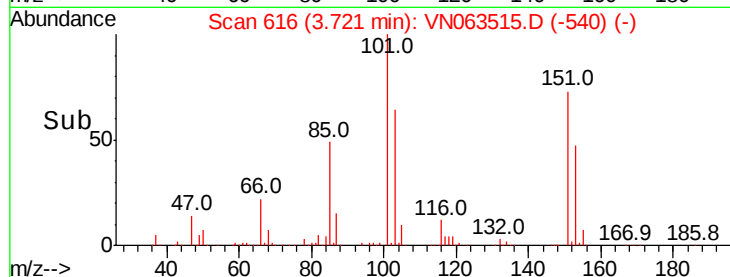
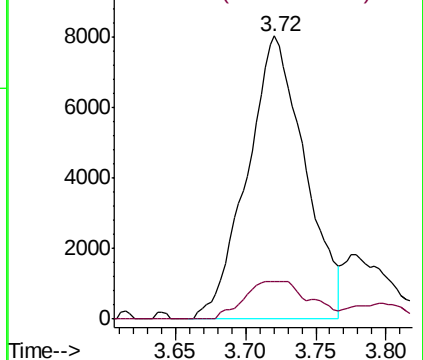
43 100

58 13.3 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: 0.612 ug/l

RT: 4.50 min Scan# 858

Delta R.T. -0.00 min

Lab File: VN063515.D

Acq: 22 Sep 2020 4:06

Tgt Ion: 84 Resp: 1951

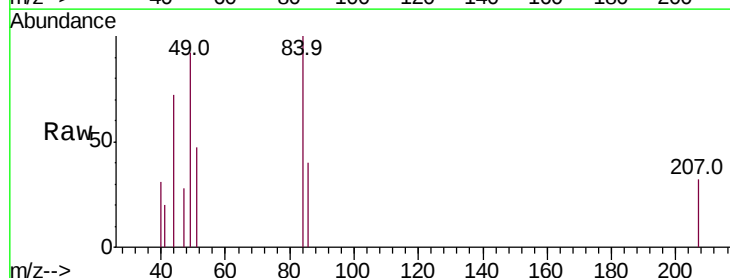
Ion Ratio Lower Upper

84 100

49 91.6 110.7 166.1#

51 47.2 32.9 49.3

86 40.0 51.1 76.7#

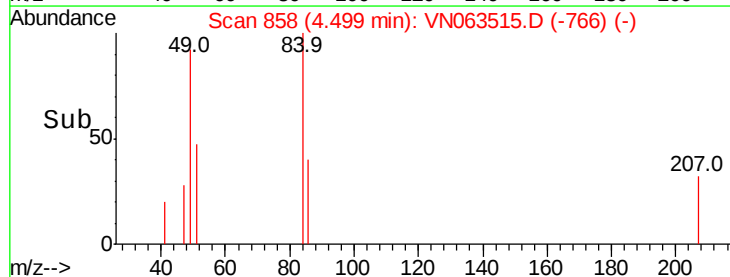
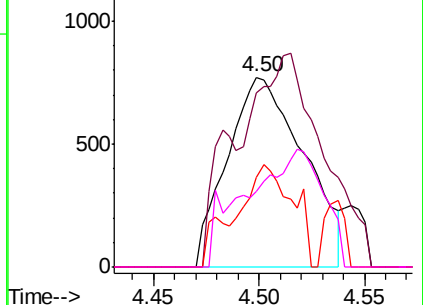


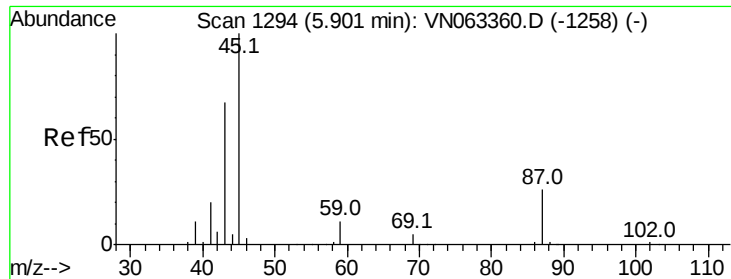
Abundance Ion 83.90 (83.60 to 84.60): VN0

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

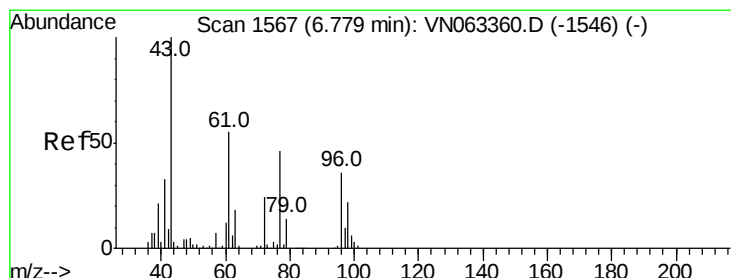
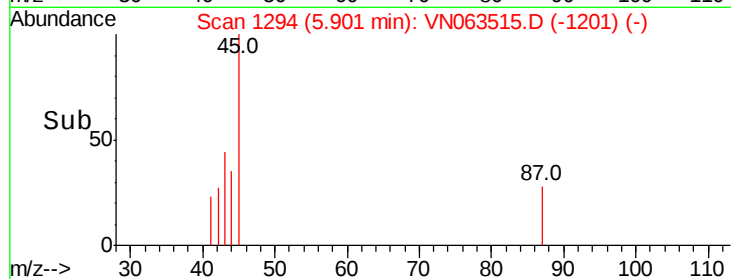
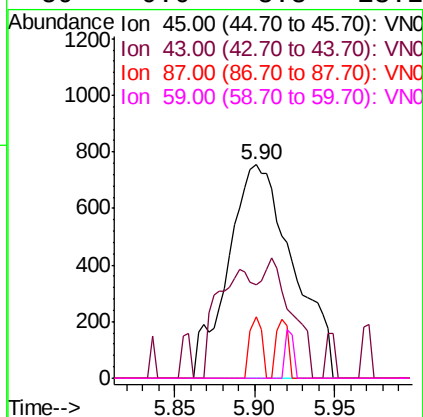
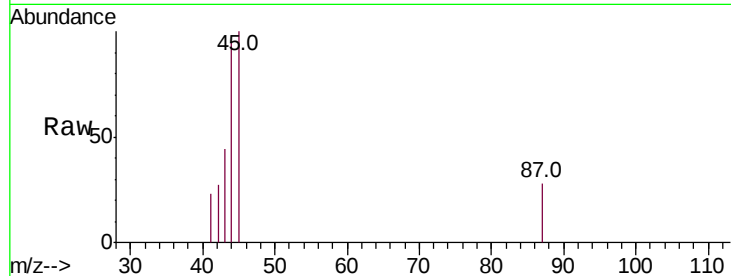




#22
Diisopropyl ether
Concen: 0.202 ug/l
RT: 5.90 min Scan# 1294
Delta R.T. -0.00 min
Lab File: VN063515.D
Acq: 22 Sep 2020 4:06

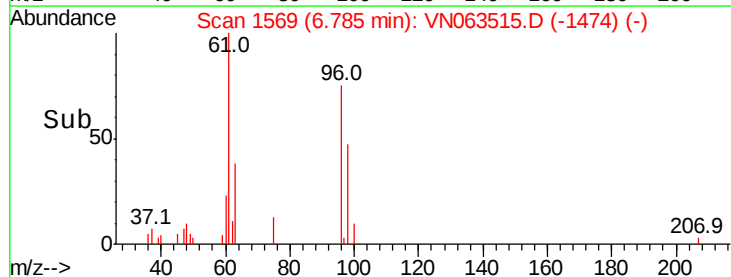
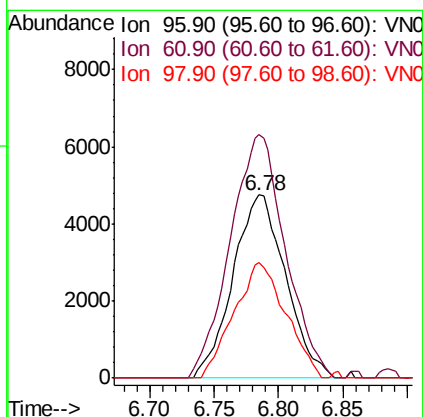
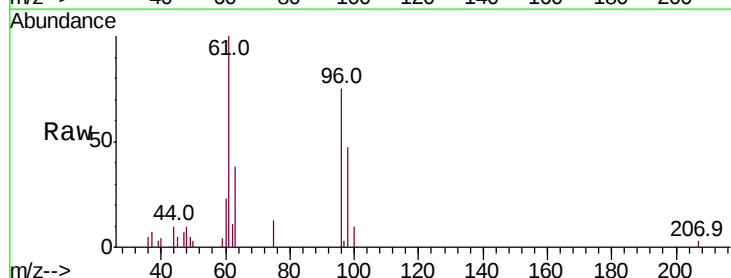
Instrument :
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RE134D3-20200915

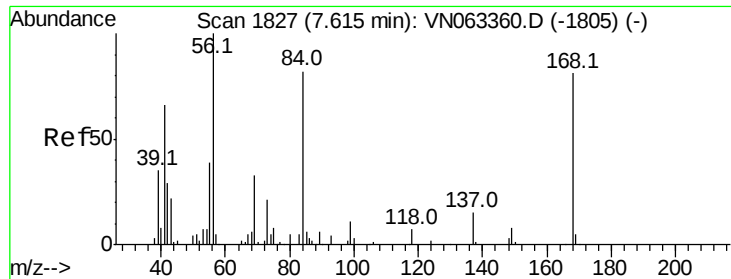
Tot Ion:	45	Resp:	2110
Ion	Ratio	Lower	Upper
45	100		
43	43.7	53.5	80.3#
87	28.5	21.2	31.8
59	0.0	8.8	13.2#



#27
cis-1,2-Dichloroethene
Concen: 4.166 ug/l
RT: 6.78 min Scan# 1569
Delta R.T. 0.01 min
Lab File: VN063515.D
Acq: 22 Sep 2020 4:06

Tgt Ion:	96	Resp:	13553
Ion	Ratio	Lower	Upper
96	100		
61	138.8	0.0	319.6
98	61.8	0.0	127.8

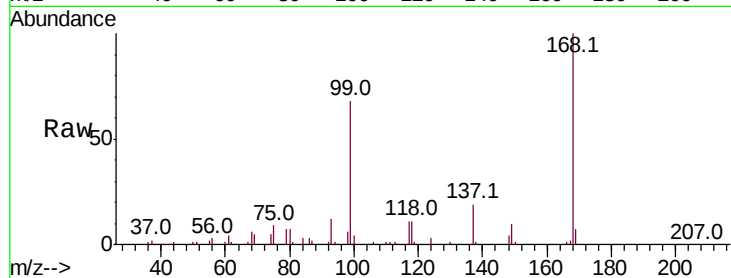




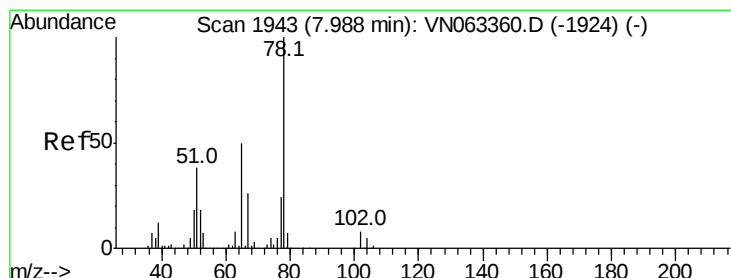
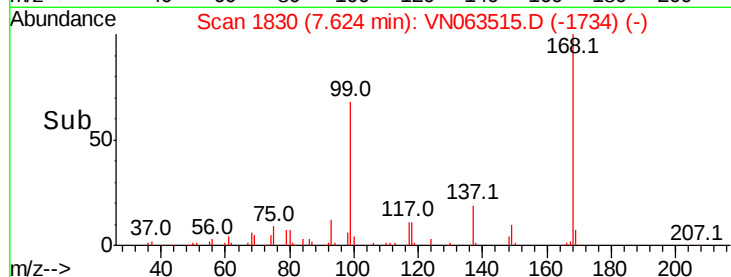
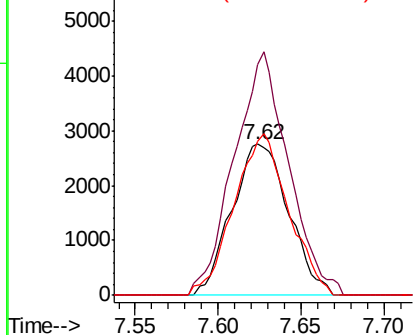
#31
Cyclohexane
Concen: 1.216 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN063515.D
Acq: 22 Sep 2020 4:06

Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20200915

Tot Ion: 56 Resp: 6573
Ion Ratio Lower Upper
56 100
69 152.5 26.1 39.1#
84 101.4 65.4 98.2#

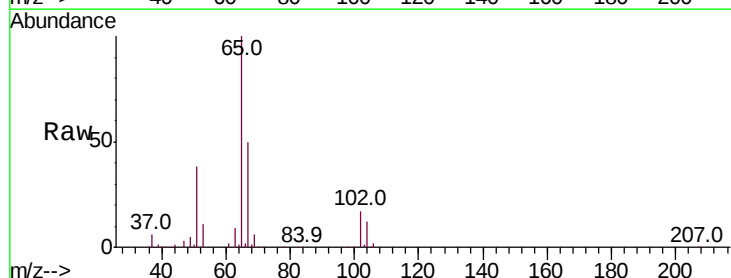


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

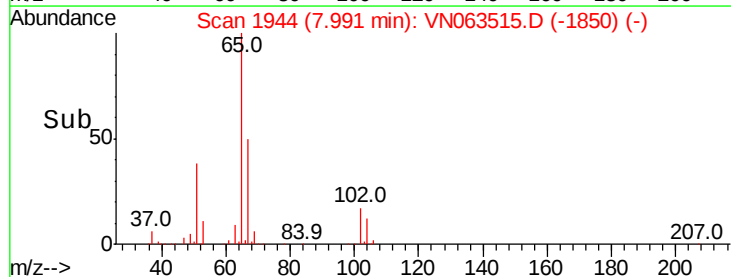
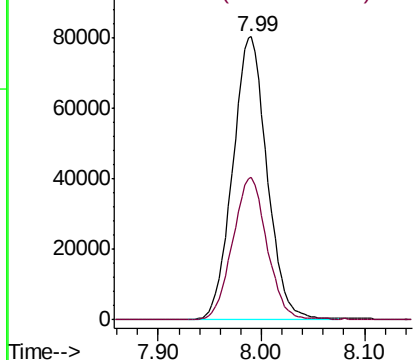


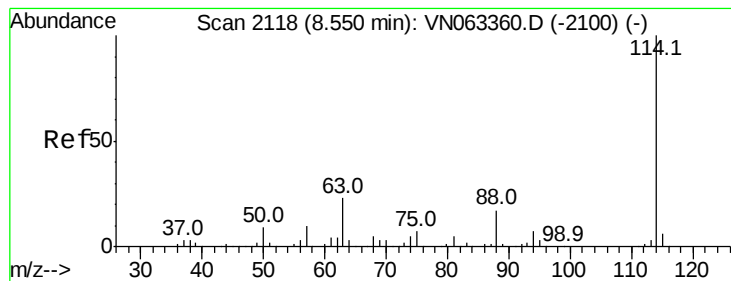
#33
1,2-Dichloroethane-d4
Concen: 47.611 ug/l
RT: 7.99 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN063515.D
Acq: 22 Sep 2020 4:06

Tgt Ion: 65 Resp: 186302
Ion Ratio Lower Upper
65 100
67 50.2 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063515.D

Acq: 22 Sep 2020 4:06

Instrument :

MSVOA_N

ClientSampleId :

RE134D3-20200915

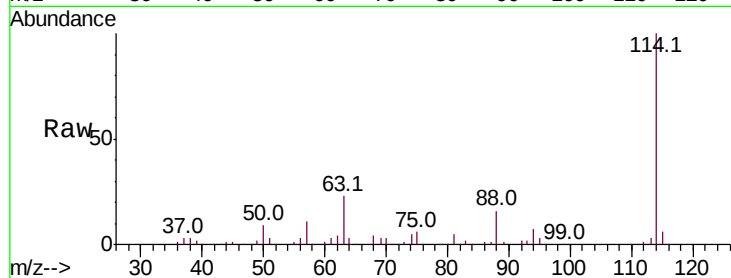
Tot Ion:114 Resp: 428663

Ion Ratio Lower Upper

114 100

63 23.2 0.0 46.4

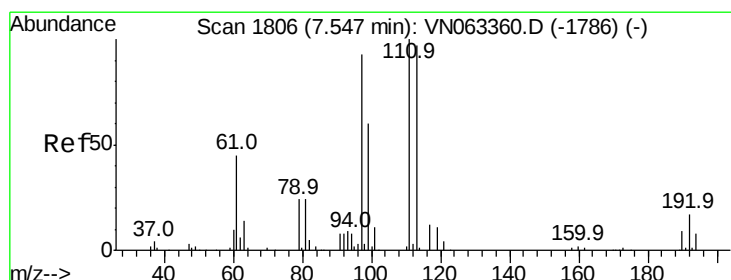
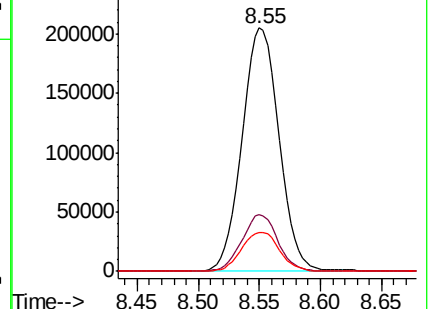
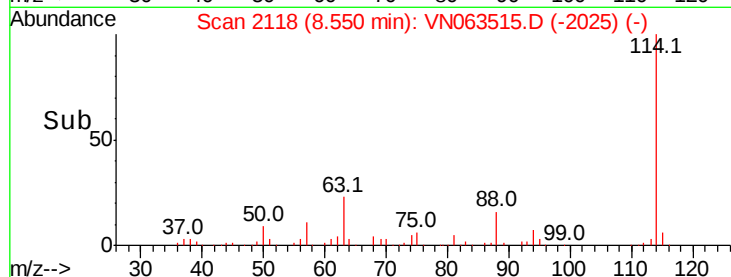
88 16.0 0.0 33.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 46.919 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063515.D

Acq: 22 Sep 2020 4:06

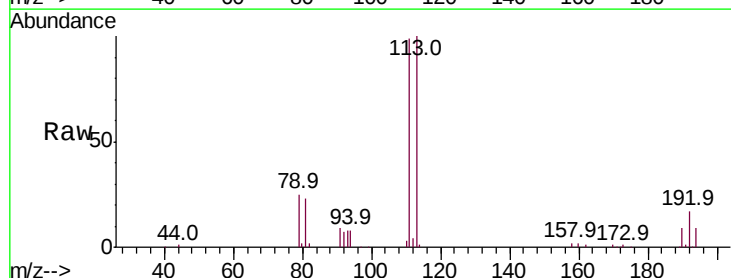
Tgt Ion:113 Resp: 139233

Ion Ratio Lower Upper

113 100

111 101.1 82.9 124.3

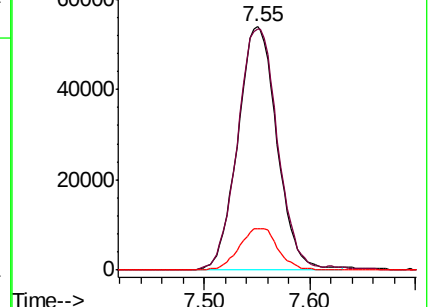
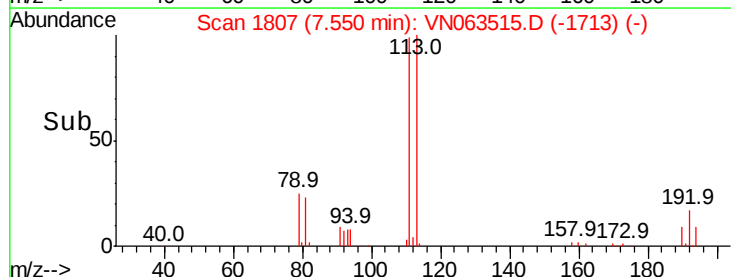
192 16.9 13.9 20.9

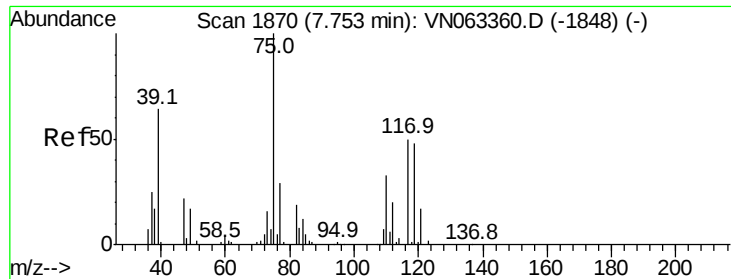


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

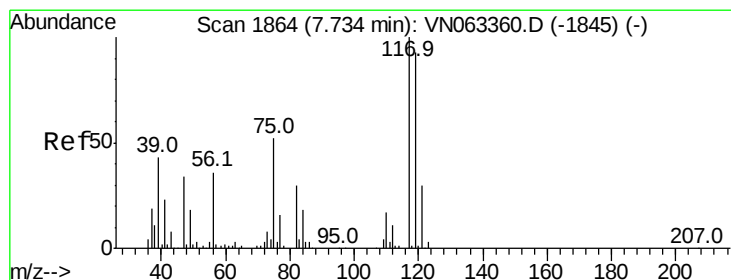
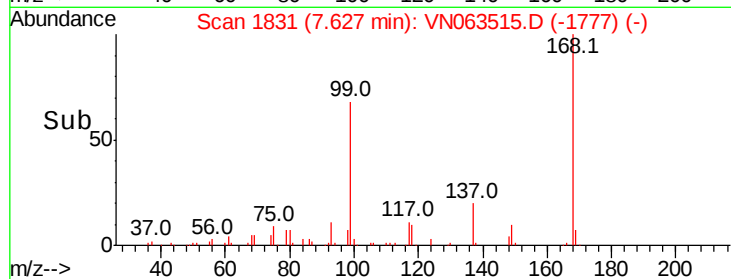
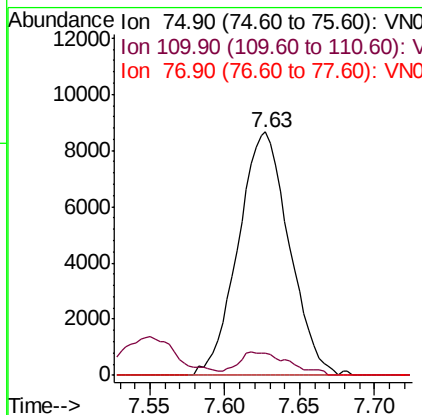
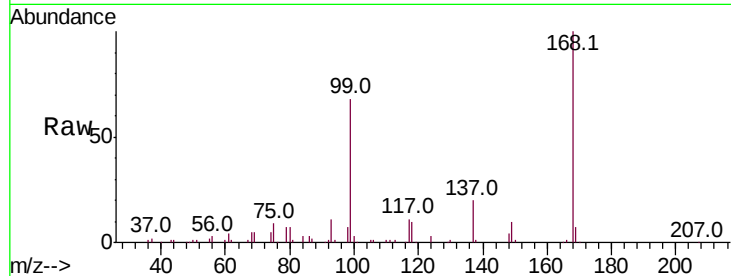




#36
 1,1-Dichloropropene
 Concen: 4.485 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063515.D
 Acq: 22 Sep 2020 4:06

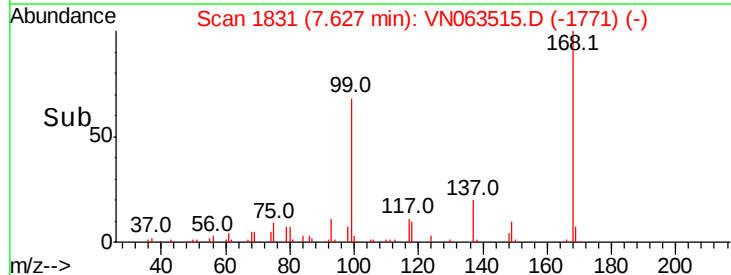
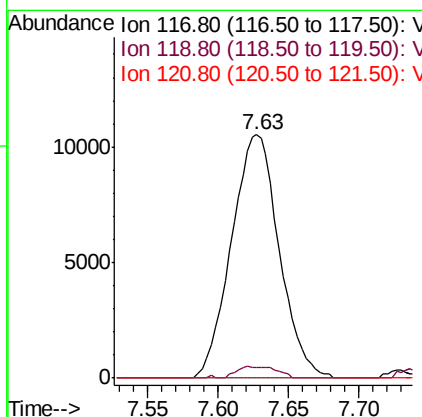
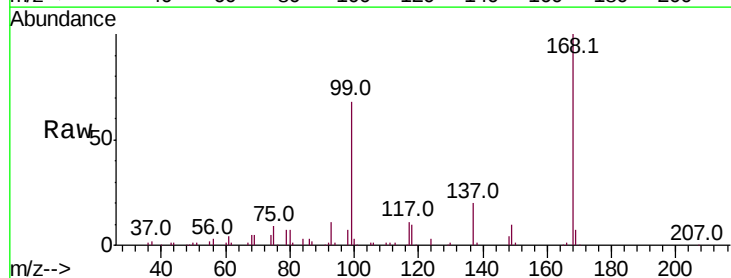
Instrument :
 MSVOA_N
 ClientSampleId :
 RE134D3-20200915

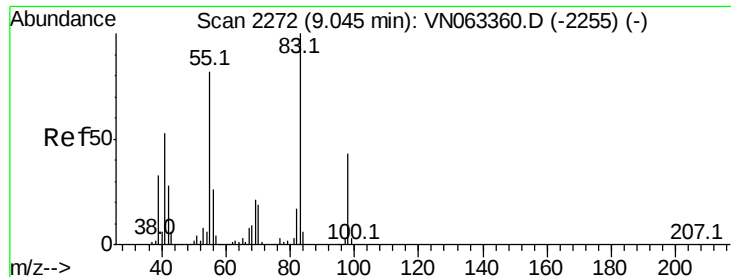
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.5	16.5	49.5#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.331 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN063515.D
 Acq: 22 Sep 2020 4:06

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.2	74.5	111.7#
121	0.0	24.1	36.1#

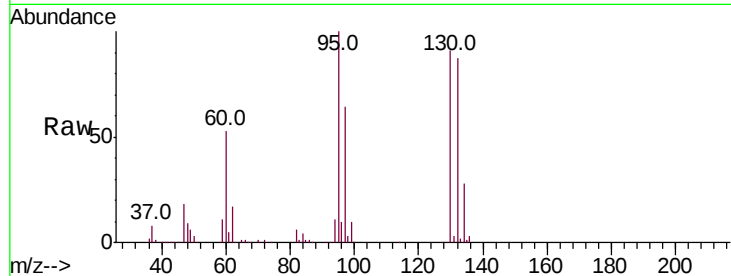




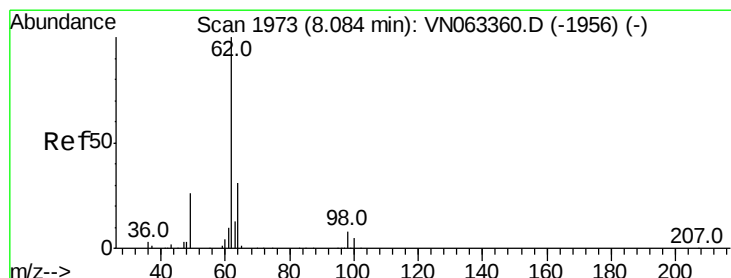
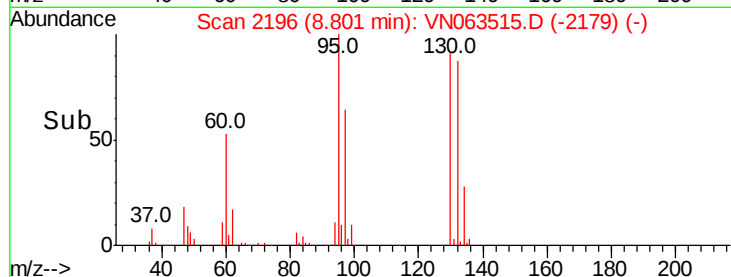
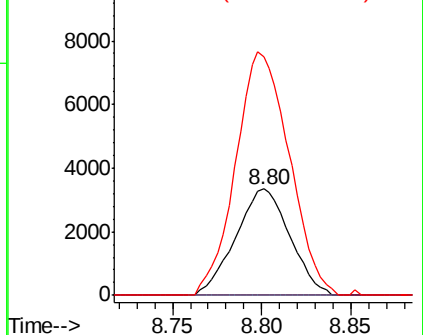
#39
Methvlcvclohexane
Concen: 1.427 ug/l
RT: 8.80 min Scan# 2196
Delta R.T. -0.24 min
Lab File: VN063515.D
Acq: 22 Sep 2020 4:06

Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20200915

Tot Ion: 83 Resp: 7075
Ion Ratio Lower Upper
83 100
55 0.0 65.5 98.3#
98 224.7 34.2 51.4#

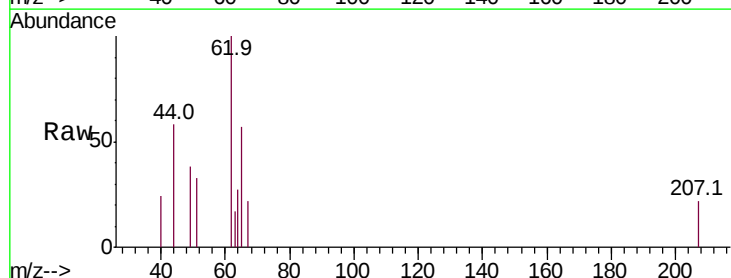


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

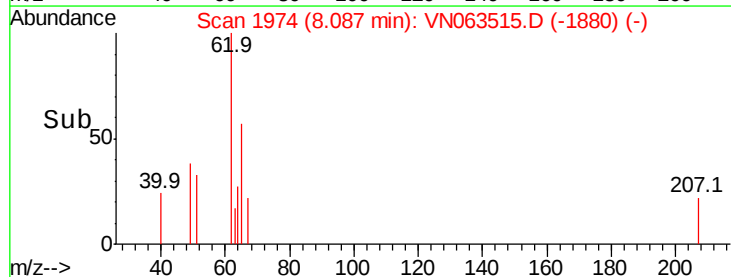
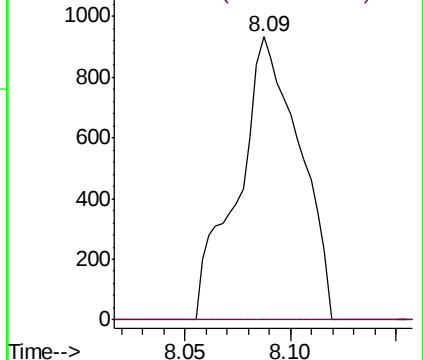


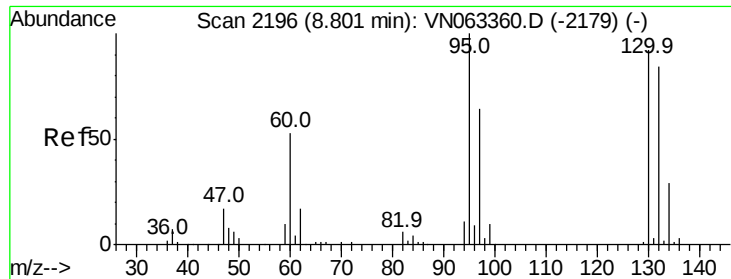
#42
1,2-Dichloroethane
Concen: 0.364 ug/l
RT: 8.09 min Scan# 1974
Delta R.T. 0.00 min
Lab File: VN063515.D
Acq: 22 Sep 2020 4:06

Tgt Ion: 62 Resp: 1906
Ion Ratio Lower Upper
62 100
98 0.0 0.0 15.6



Abundance Ion 61.90 (61.60 to 62.60): VN0
Ion 97.90 (97.60 to 98.60): VN0





#44

Trichloroethene

Concen: 170.287 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN063515.D

Acq: 22 Sep 2020 4:06

Instrument :

MSVOA_N

ClientSampleId :

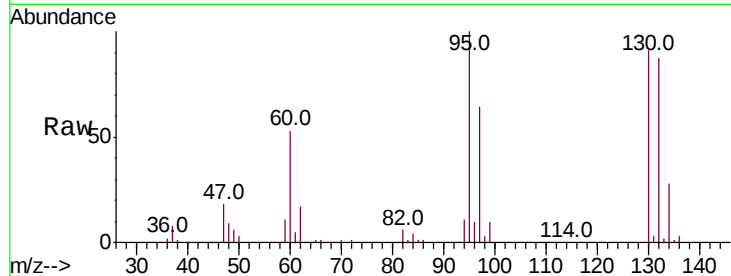
RE134D3-20200915

Tot Ion:130 Resp: 538438

Ion Ratio Lower Upper

130 100

95 110.4 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

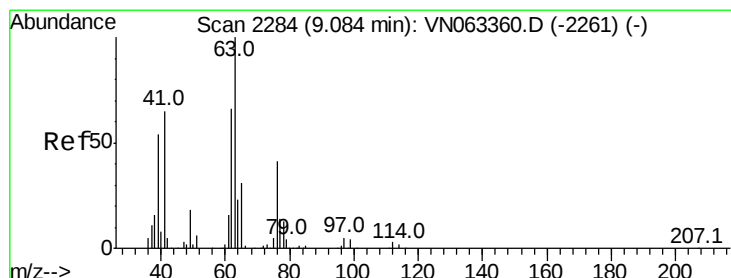
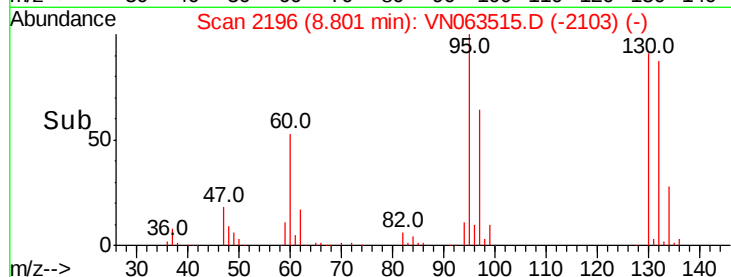
300000

200000

100000

0

Time-->



#45

1,2-Dichloropropane

Concen: 0.750 ug/l

RT: 9.08 min Scan# 2284

Delta R.T. -0.00 min

Lab File: VN063515.D

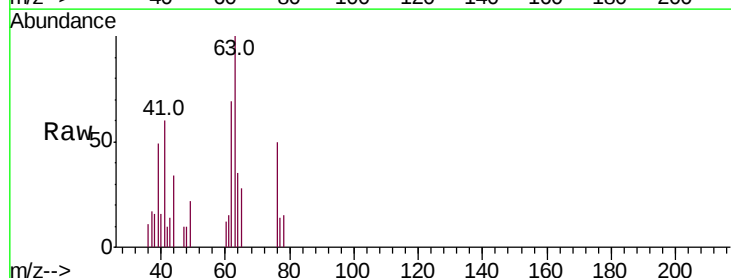
Acq: 22 Sep 2020 4:06

Tgt Ion: 63 Resp: 2664

Ion Ratio Lower Upper

63 100

65 27.6 25.0 37.6



Abundance Ion 62.90 (62.60 to 63.60): VN063360.D (-2261) (-)

Ion 64.90 (64.60 to 65.60): VN063360.D (-2261) (-)

9.08

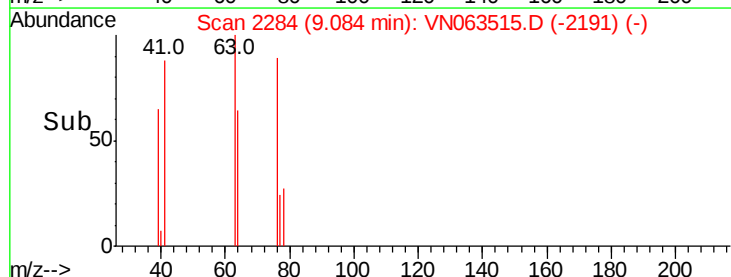
1500

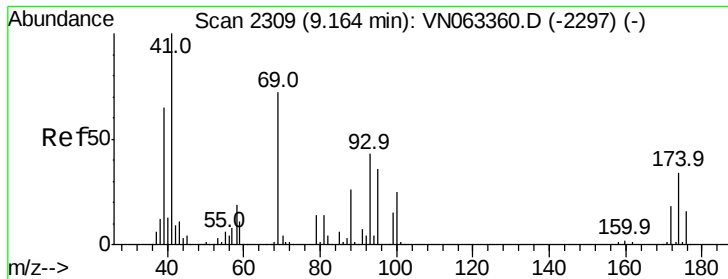
1000

500

0

Time-->





#48

Methvl methacrylate

Concen: 0.516 ug/l

RT: 9.09 min Scan# 2285

Delta R.T. -0.08 min

Lab File: VN063515.D

Acq: 22 Sep 2020 4:06

Instrument :

MSVOA_N

ClientSampleId :

RE134D3-20200915

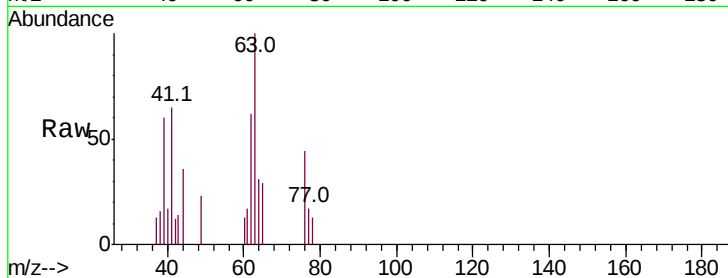
Tot Ion: 41 Resp: 2031

Ion Ratio Lower Upper

41 100

69 0.0 59.3 88.9#

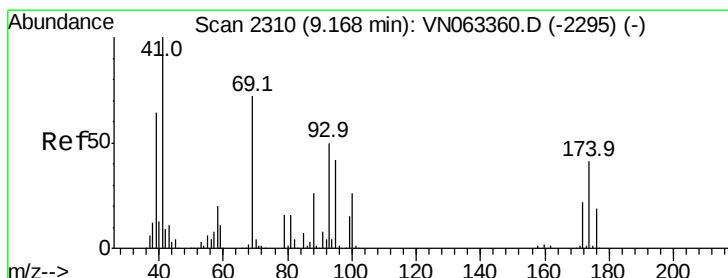
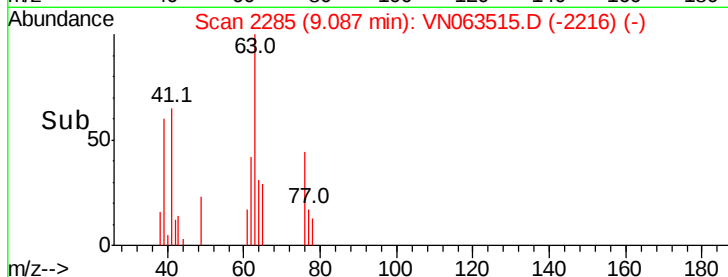
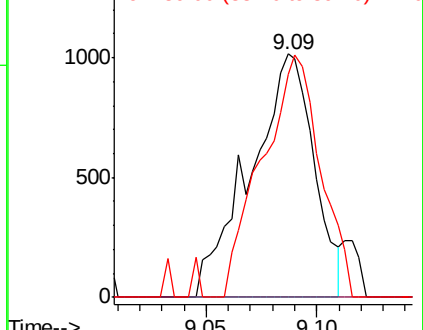
39 91.7 52.9 79.3#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#49

1,4-Dioxane

Concen: 29.023 ug/l

RT: 9.16 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN063515.D

Acq: 22 Sep 2020 4:06

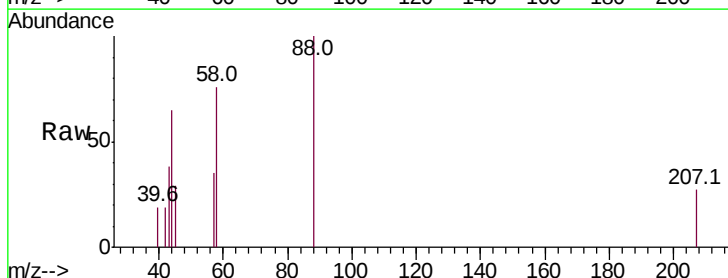
Tgt Ion: 88 Resp: 1640

Ion Ratio Lower Upper

88 100

43 13.1 32.6 49.0#

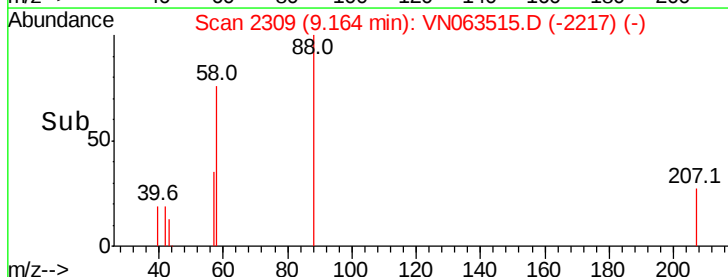
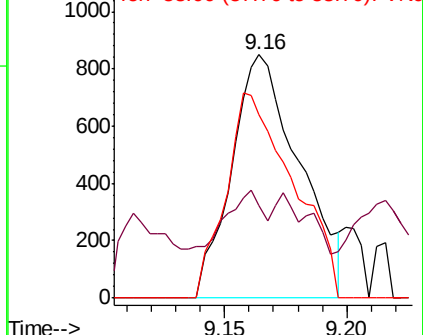
58 83.0 60.0 90.0

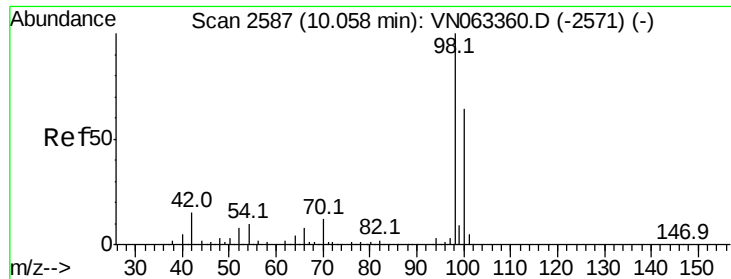


Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

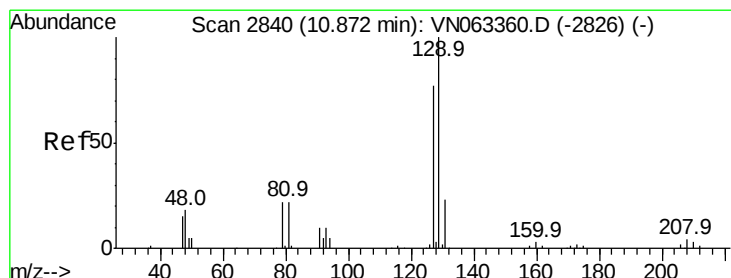
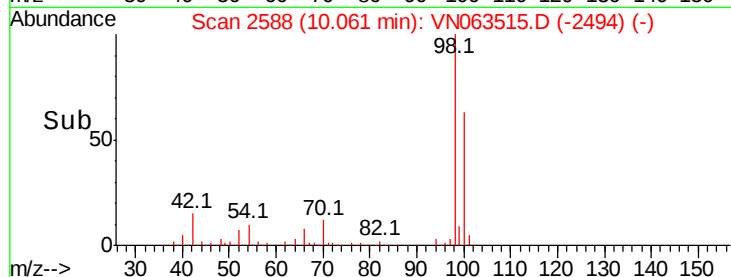
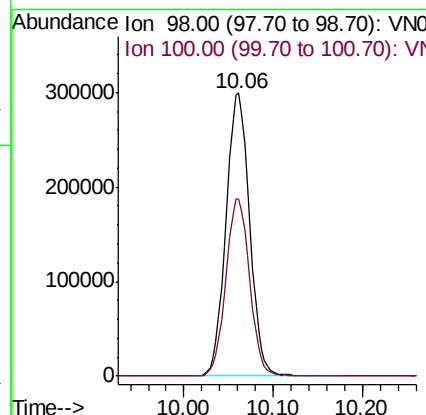
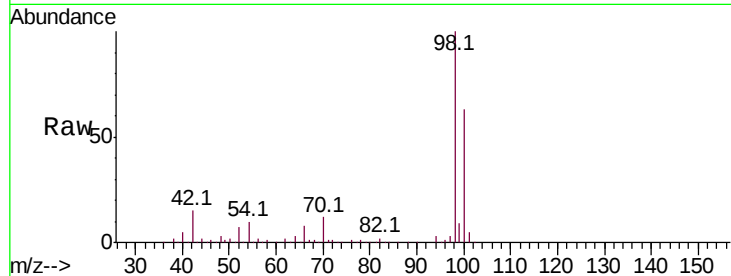




#50
Toluene-d8
Concen: 49.310 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063515.D
Acq: 22 Sep 2020 4:06

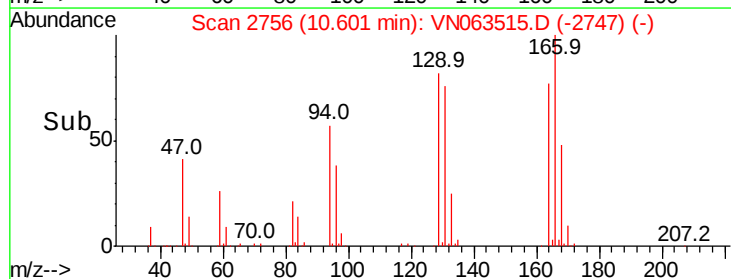
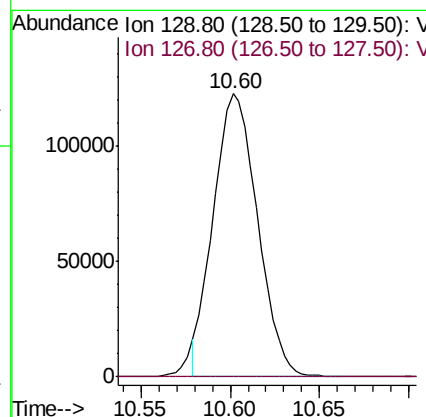
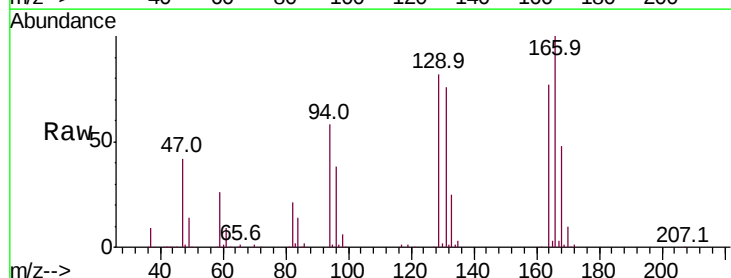
Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20200915

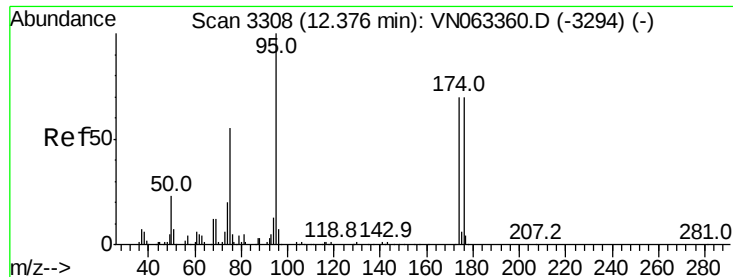
Tot Ion: 98 Resp: 550224
Ion Ratio Lower Upper
98 100
100 63.1 50.7 76.1



#60
Dibromochloromethane
Concen: 59.493 ug/l
RT: 10.60 min Scan# 2756
Delta R.T. -0.27 min
Lab File: VN063515.D
Acq: 22 Sep 2020 4:06

Tgt Ion: 129 Resp: 209250
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.3#

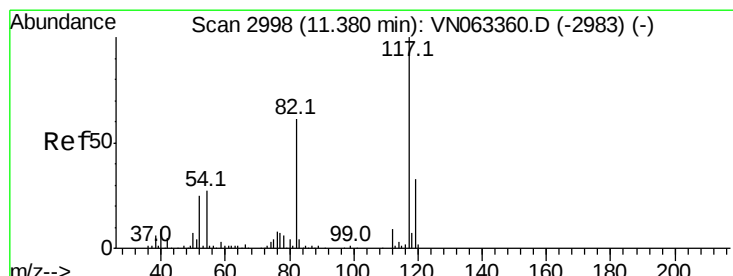
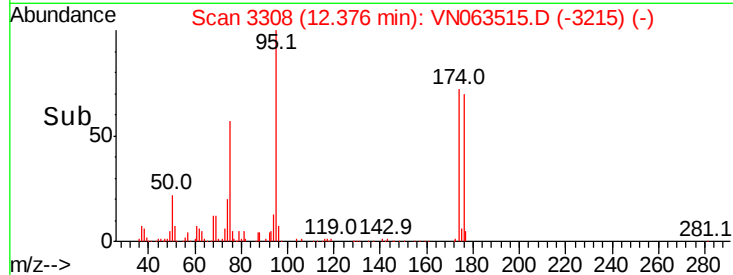
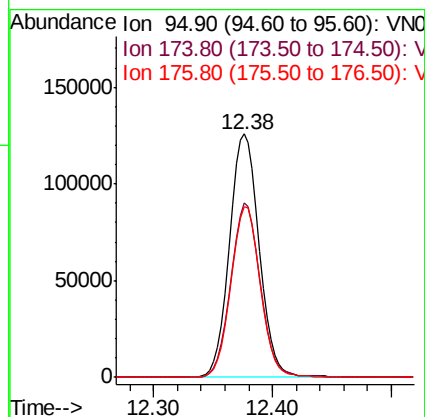
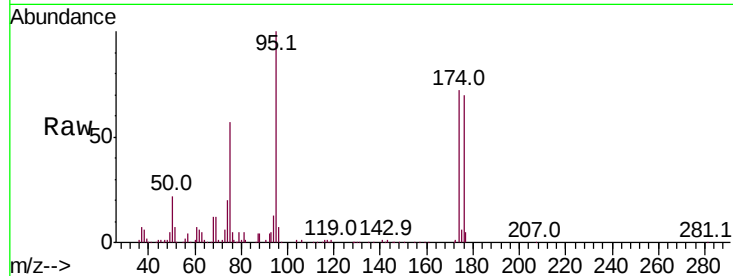




#62
4-Bromofluorobenzene
Concen: 53.172 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063515.D
Acq: 22 Sep 2020 4:06

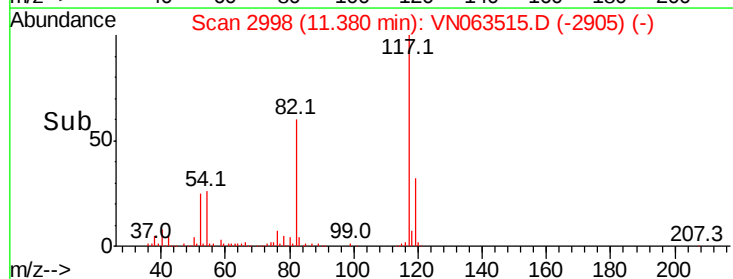
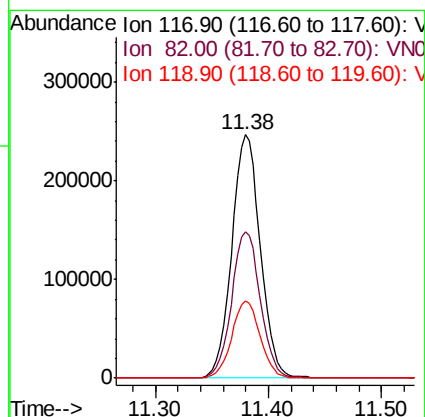
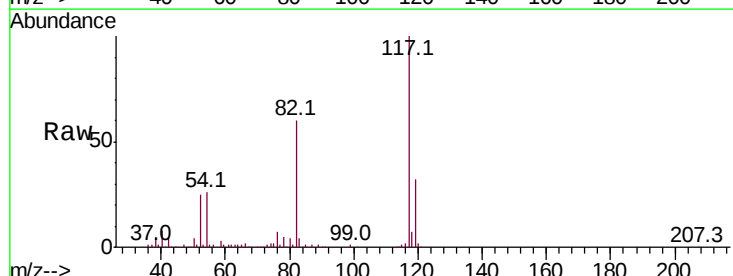
Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20200915

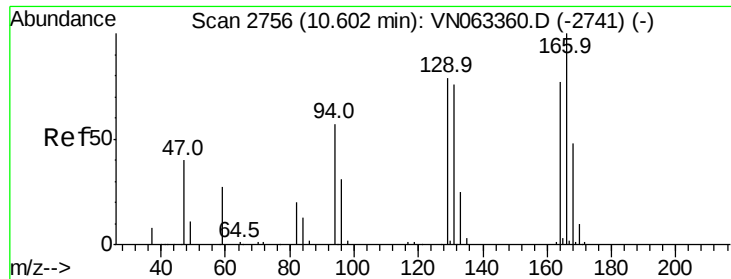
Tot Ion: 95 Resp: 217499
Ion Ratio Lower Upper
95 100
174 70.8 0.0 140.8
176 69.7 0.0 137.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063515.D
Acq: 22 Sep 2020 4:06

Tgt Ion: 117 Resp: 432901
Ion Ratio Lower Upper
117 100
82 60.3 49.2 73.8
119 31.8 26.2 39.4





#64

Tetrachloroethene

Concen: 70.710 ug/l

RT: 10.60 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VN063515.D

Acq: 22 Sep 2020 4:06

Instrument :

MSVOA_N

ClientSampleId :

RE134D3-20200915

Tot Ion:164 Resp: 208434

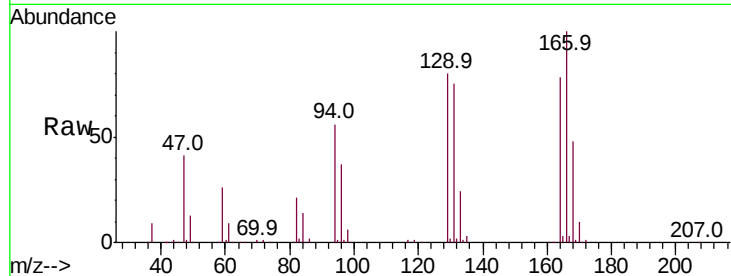
Ion Ratio Lower Upper

164 100

166 128.8 103.4 155.0

129 102.6 81.8 122.6

131 97.0 78.2 117.4

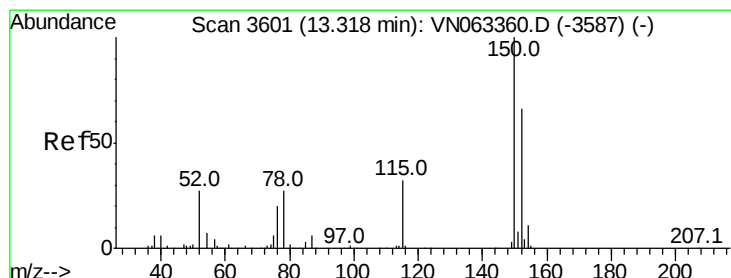
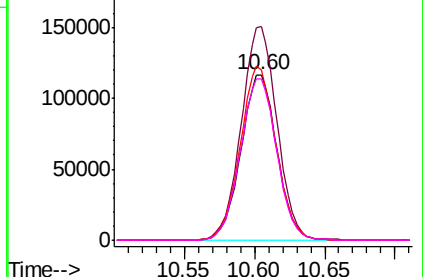
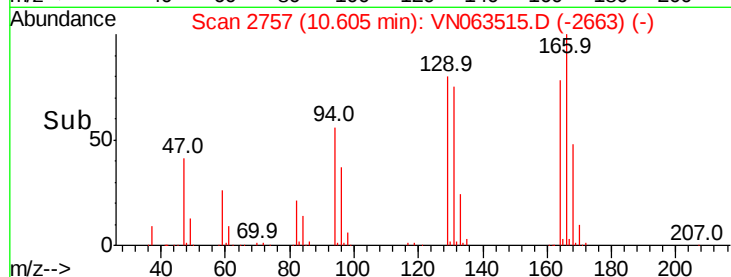


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063515.D

Acq: 22 Sep 2020 4:06

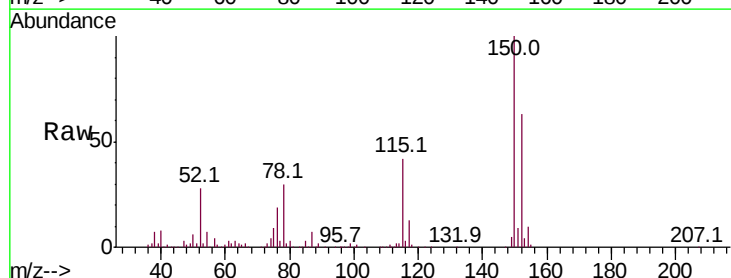
Tgt Ion:152 Resp: 180916

Ion Ratio Lower Upper

152 100

115 65.6 32.2 96.6

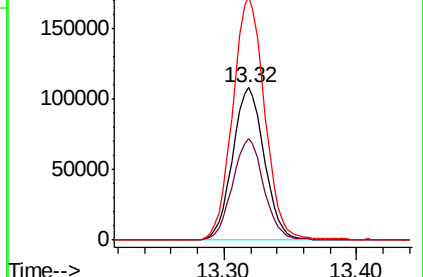
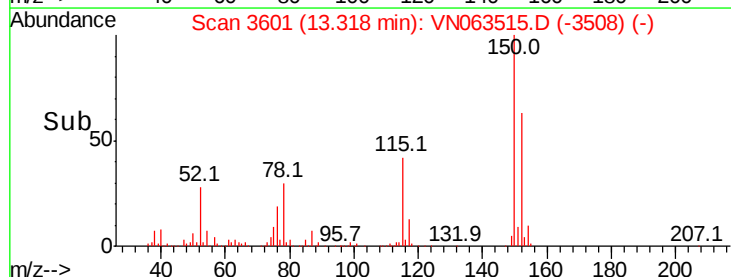
150 160.1 0.0 343.4

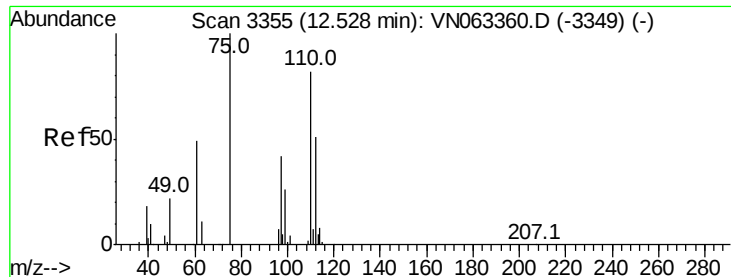


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.513 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063515.D

Acq: 22 Sep 2020 4:06

Instrument :

MSVOA_N

ClientSampleId :

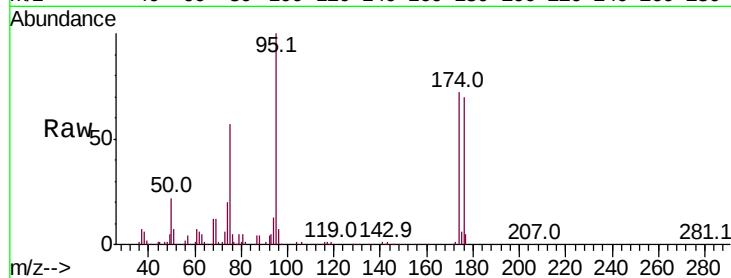
RE134D3-20200915

Tot Ion: 75 Resp: 123203

Ion Ratio Lower Upper

75 100

77 1.1 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

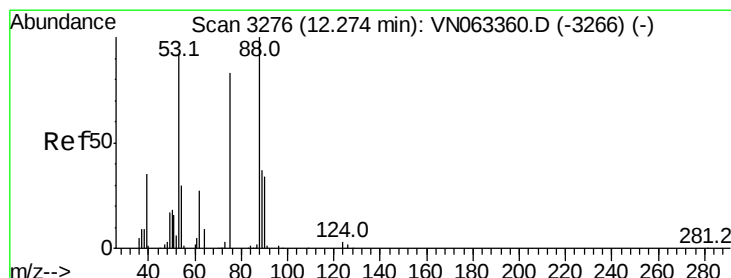
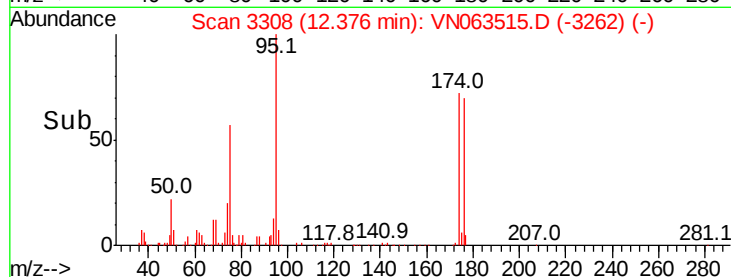
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 75.431 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063515.D

Acq: 22 Sep 2020 4:06

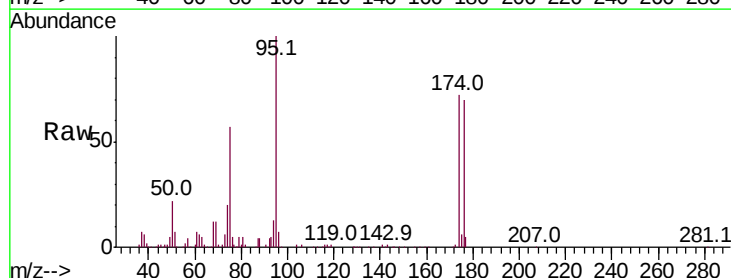
Tgt Ion: 75 Resp: 123203

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

100000

80000

60000

40000

20000

0

Time-->

