

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092520\
 Data File : VN063688.D
 Acq On : 25 Sep 2020 19:06
 Operator : JC/MD
 Sample : L4119-04DL 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE122D1-20200921DL

Quant Time: Sep 28 02:04:20 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	183910	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	342981	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	350793	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	156060	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	162145	51.79	ug/l	0.00
Spiked Amount			Recovery	=	103.58%	
35) Dibromofluoromethane	7.55	113	116766	49.18	ug/l	0.00
Spiked Amount			Recovery	=	98.36%	
50) Toluene-d8	10.06	98	441790	49.48	ug/l	0.00
Spiked Amount			Recovery	=	98.96%	
62) 4-Bromofluorobenzene	12.38	95	180156	55.04	ug/l	0.00
Spiked Amount			Recovery	=	110.08%	

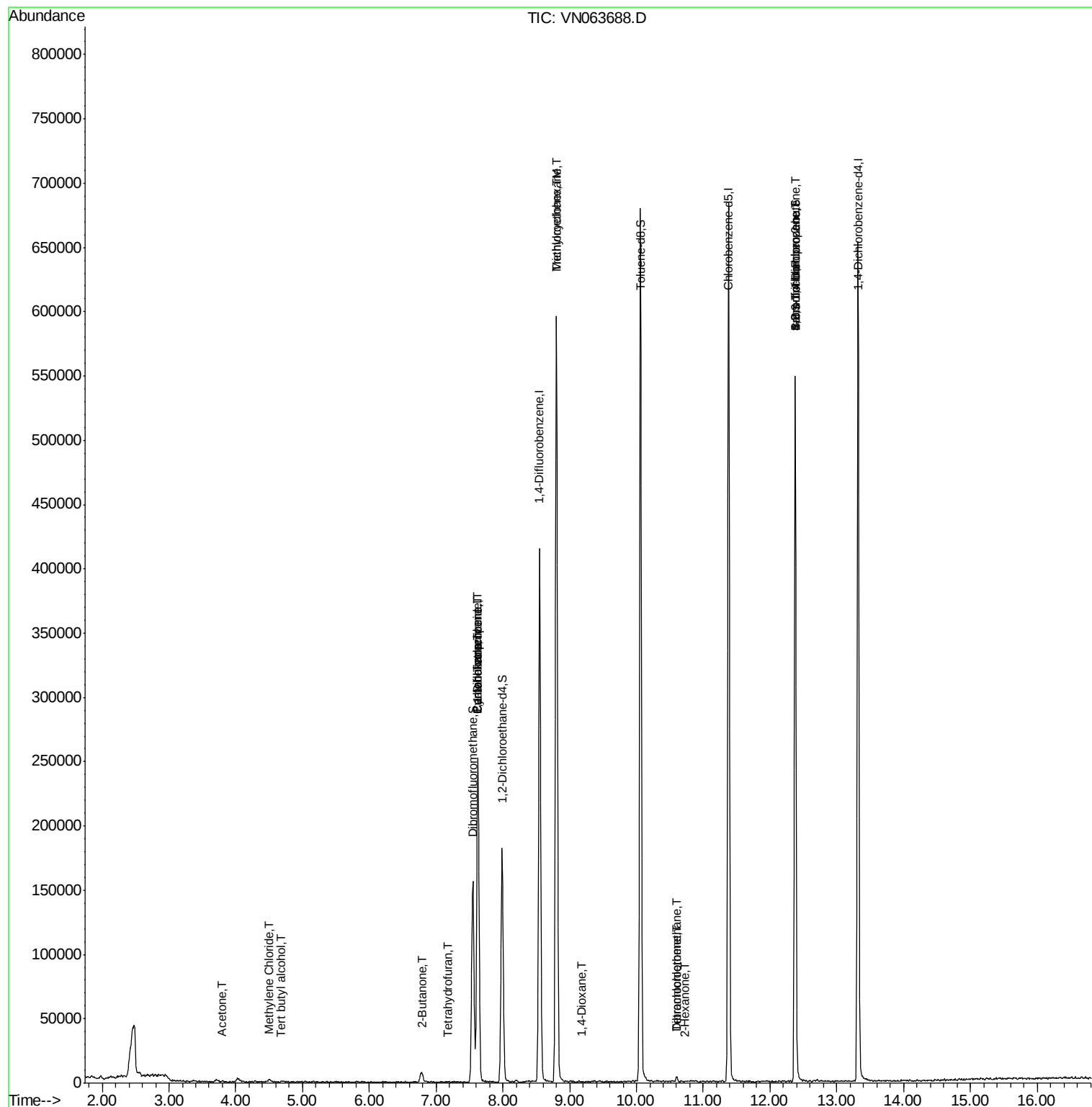
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.69	59	350	0.807	ug/l #	72
16) Acetone	3.78	43	250	0.248	ug/l #	47
20) Methylene Chloride	4.50	84	1230	0.483	ug/l #	76
25) 2-Butanone	6.78	43	385	0.249	ug/l #	51
29) Tetrahydrofuran	7.18	42	263	0.249	ug/l #	36
31) Cyclohexane	7.62	56	5433	1.257	ug/l #	39
36) 1,1-Dichloropropene	7.62	75	17390	4.759	ug/l #	51
38) Carbon Tetrachloride	7.62	117	20663	5.540	ug/l #	19
39) Methylcyclohexane	8.80	83	3128	0.789	ug/l #	1
44) Trichloroethene	8.80	130	200421	79.220	ug/l	98
49) 1,4-Dioxane	9.18	88	156	3.450	ug/l #	14
59) 2-Hexanone	10.73	43	642	0.247	ug/l #	28
60) Dibromochloromethane	10.60	129	568	0.202	ug/l #	10
64) Tetrachloroethene	10.60	164	876	0.367	ug/l #	78
71) Bromoform	12.38	173	658	0.324	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	101453	26.265	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	101453	72.008	ug/l #	7

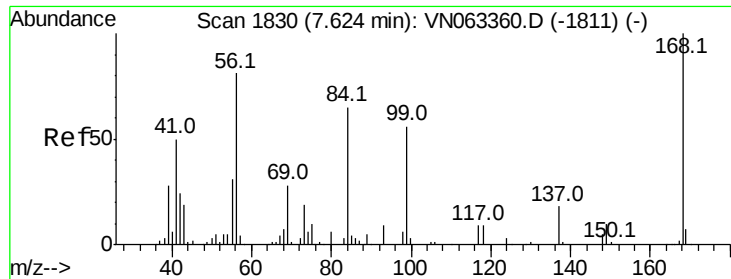
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063688.D

Acq: 25 Sep 2020 19:06

Instrument :

MSVOA_N

ClientSampleId :

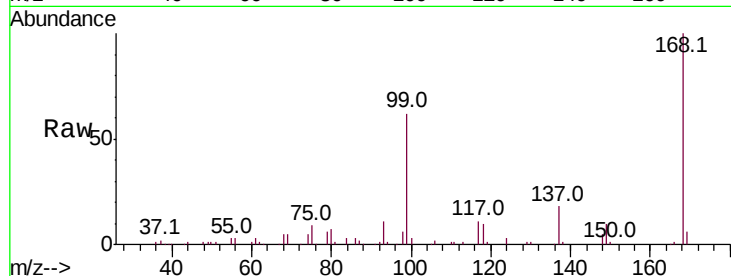
RE122D1-20200921DL

Tot Ion:168 Resp: 183910

Ion Ratio Lower Upper

168 100

99 62.3 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

80000

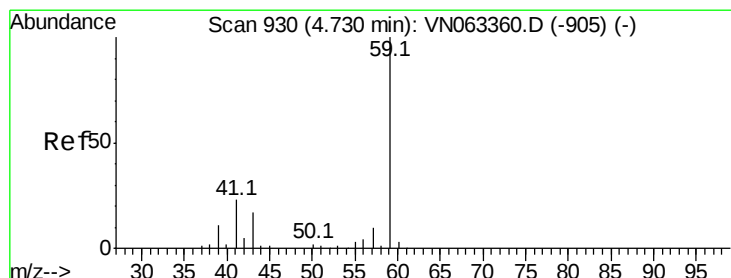
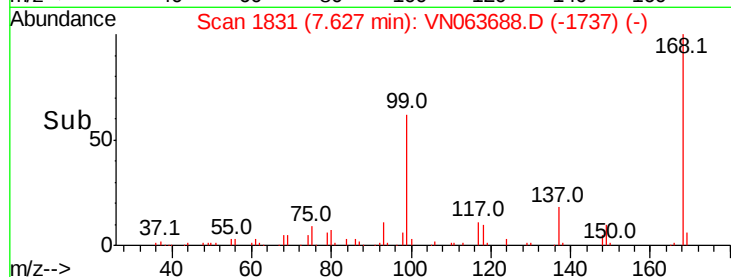
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.807 ug/l

RT: 4.69 min Scan# 917

Delta R.T. -0.04 min

Lab File: VN063688.D

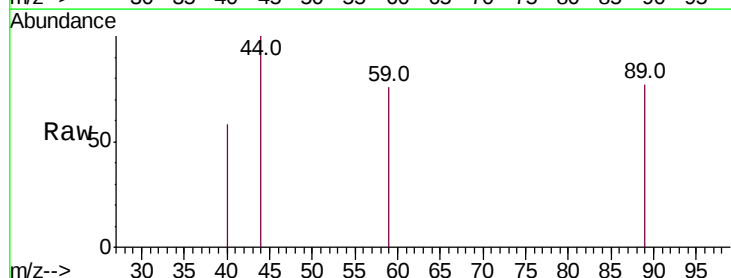
Acq: 25 Sep 2020 19:06

Tgt Ion: 59 Resp: 350

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

400

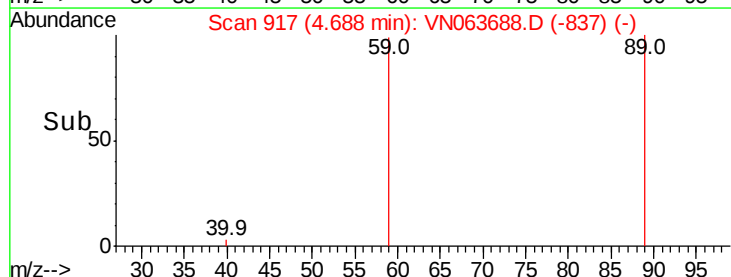
300

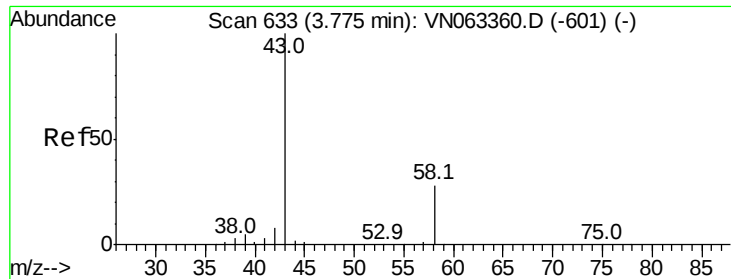
200

100

0

Time--> 4.66 4.68 4.70





#16

Acetone

Concen: 0.248 ug/l

RT: 3.78 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN063688.D

Acq: 25 Sep 2020 19:06

Instrument :

MSVOA_N

ClientSampleId :

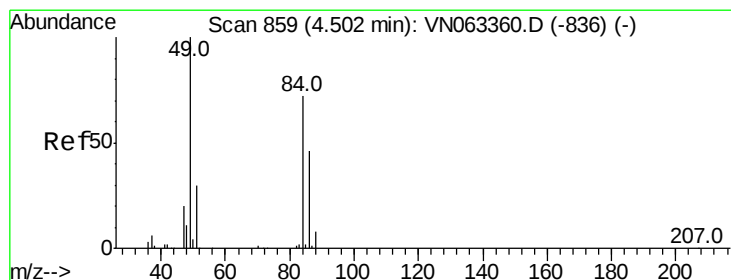
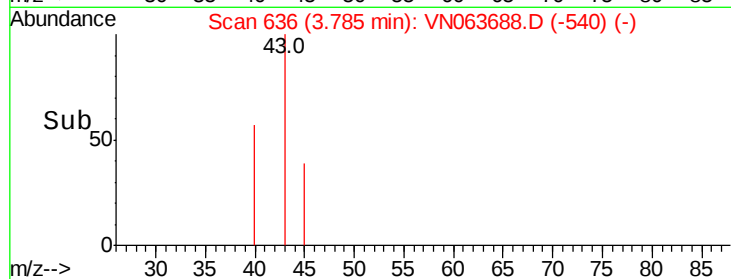
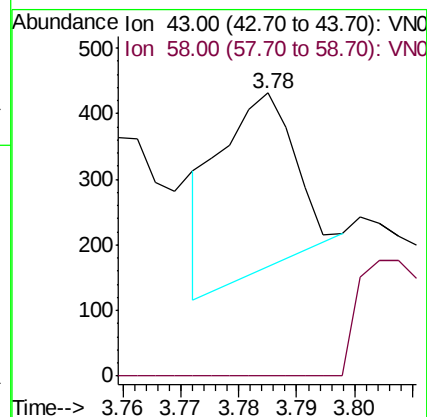
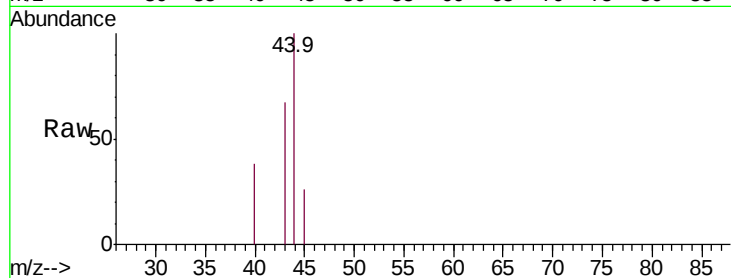
RE122D1-20200921DL

Tot Ion: 43 Resp: 250

Ion Ratio Lower Upper

43 100

58 0.0 22.3 33.5#



#20

Methylene Chloride

Concen: 0.483 ug/l

RT: 4.50 min Scan# 857

Delta R.T. -0.01 min

Lab File: VN063688.D

Acq: 25 Sep 2020 19:06

Tgt Ion: 84 Resp: 1230

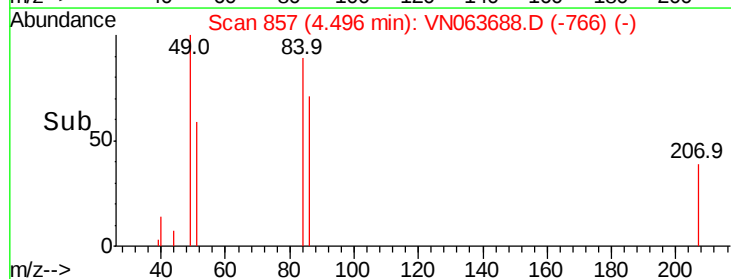
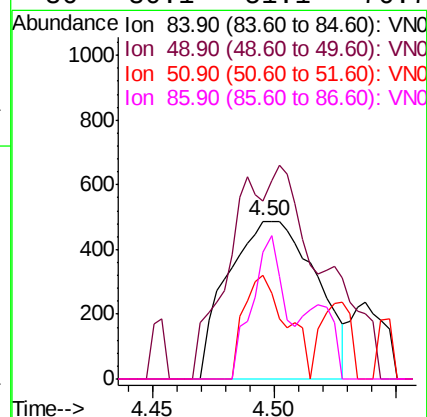
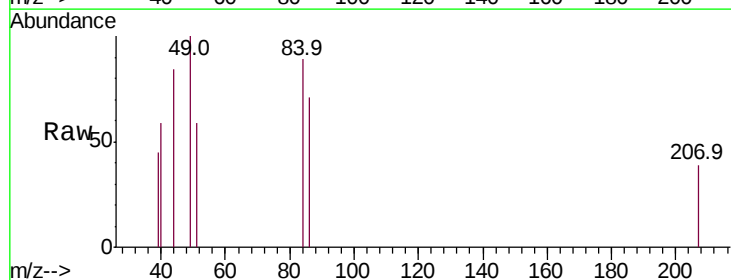
Ion Ratio Lower Upper

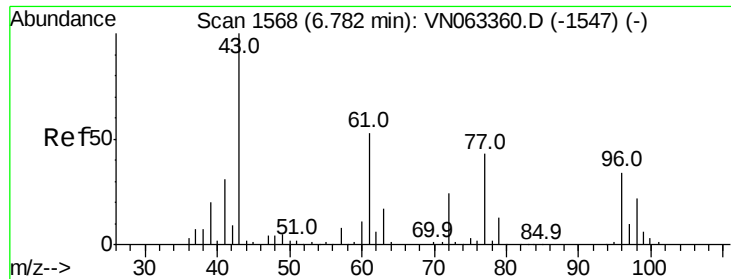
84 100

49 112.3 110.7 166.1

51 65.8 32.9 49.3#

86 80.1 51.1 76.7#

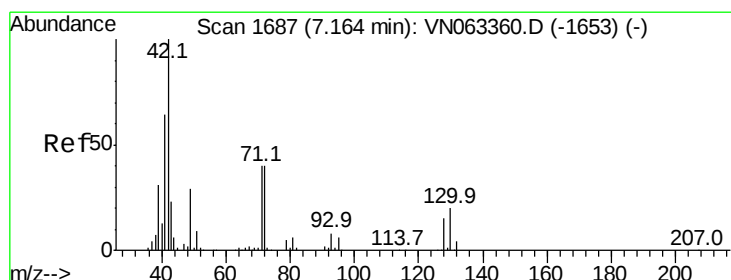
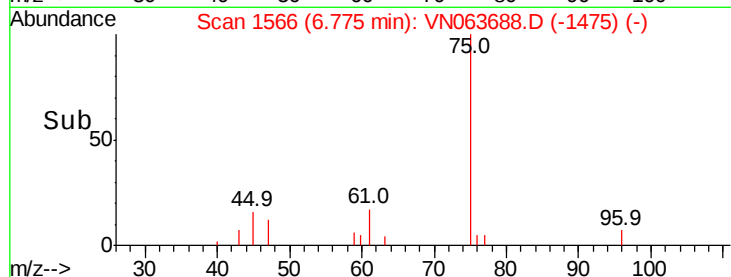
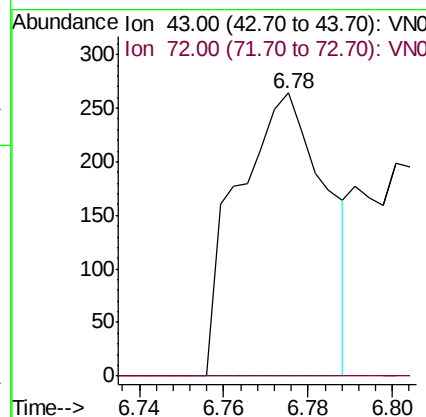
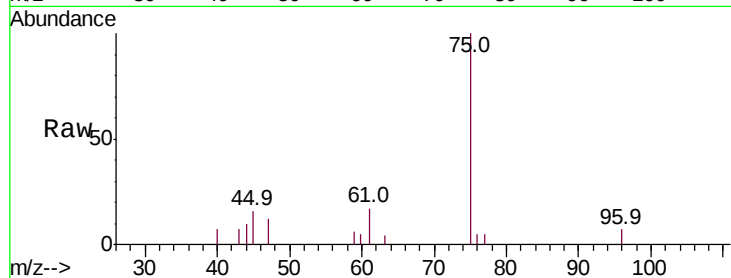




#25
2-Butanone
Concen: 0.249 ug/l
RT: 6.78 min Scan# 1566
Delta R.T. -0.01 min
Lab File: VN063688.D
Acq: 25 Sep 2020 19:06

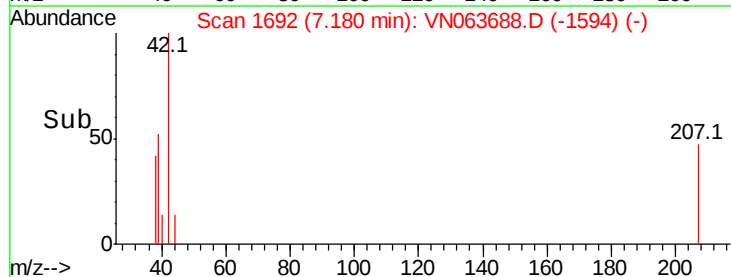
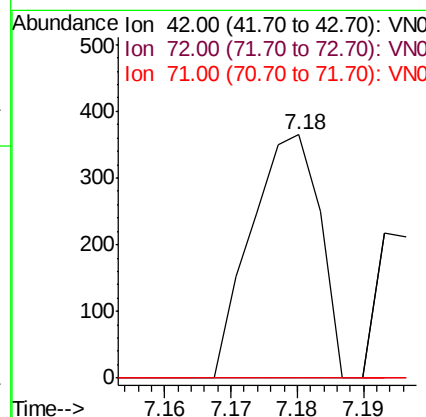
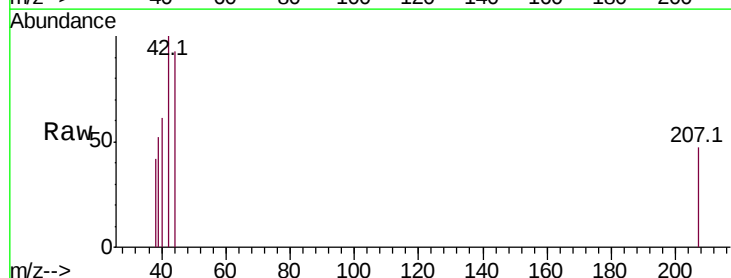
Instrument :
MSVOA_N
ClientSampleId :
RE122D1-20200921DL

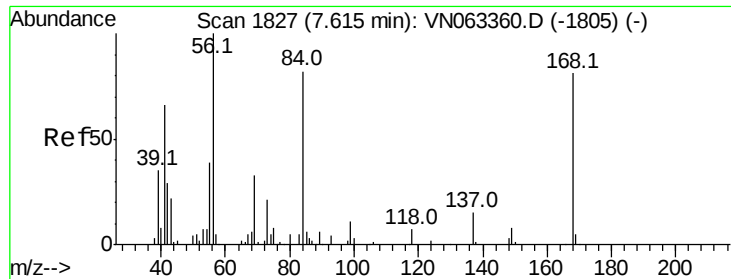
Tot Ion: 43 Resp: 385
Ion Ratio Lower Upper
43 100
72 0.0 19.2 28.8#



#29
Tetrahydrofuran
Concen: 0.249 ug/l
RT: 7.18 min Scan# 1692
Delta R.T. 0.02 min
Lab File: VN063688.D
Acq: 25 Sep 2020 19:06

Tgt Ion: 42 Resp: 263
Ion Ratio Lower Upper
42 100
72 0.0 32.1 48.1#
71 0.0 31.2 46.8#

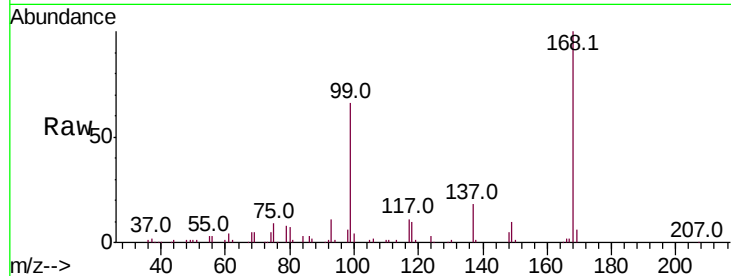




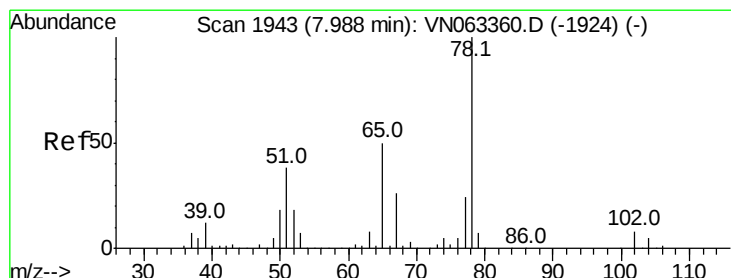
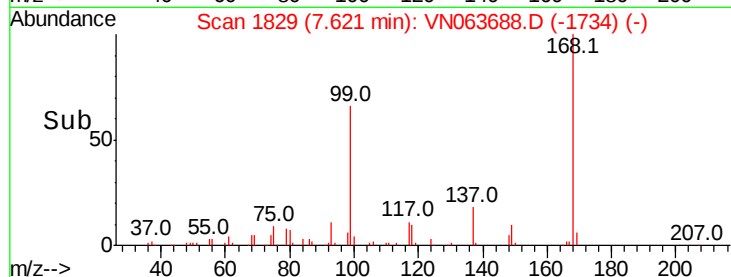
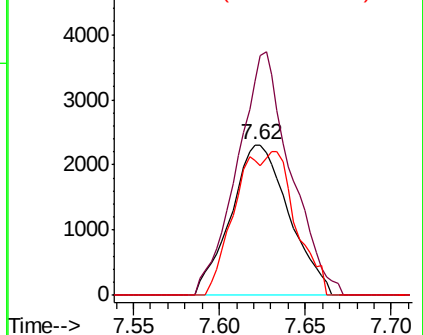
#31
Cyclohexane
Concen: 1.257 ug/l
RT: 7.62 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VN063688.D
Acq: 25 Sep 2020 19:06

Instrument :
MSVOA_N
ClientSampleId :
RE122D1-20200921DL

Tot Ion: 56 Resp: 5433
Ion Ratio Lower Upper
56 100
69 141.9 26.1 39.1#
84 89.1 65.4 98.2

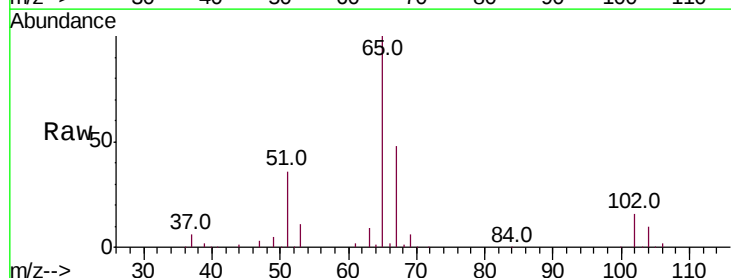


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

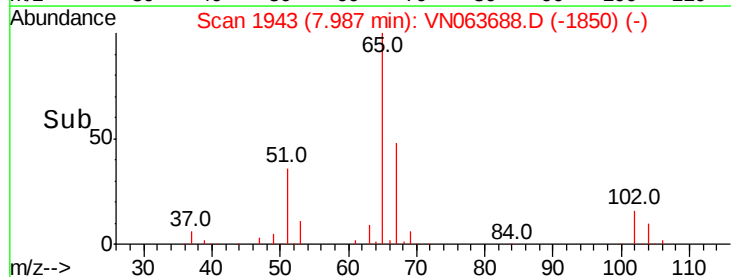
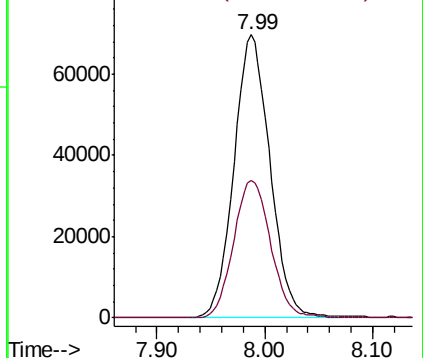


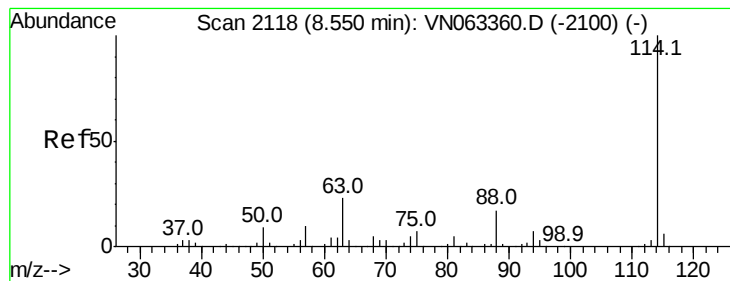
#33
1,2-Dichloroethane-d4
Concen: 51.793 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN063688.D
Acq: 25 Sep 2020 19:06

Tgt Ion: 65 Resp: 162145
Ion Ratio Lower Upper
65 100
67 50.0 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: VN063688.D

Acq: 25 Sep 2020 19:06

Instrument :

MSVOA_N

ClientSampleId :

RE122D1-20200921DL

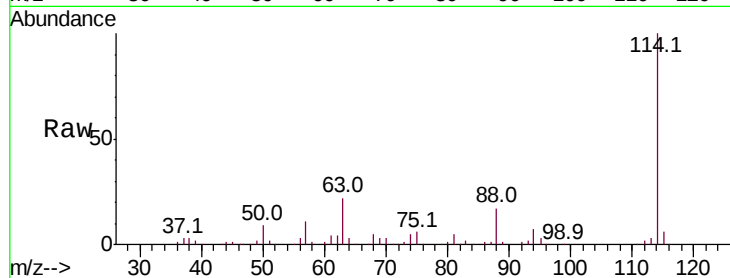
Tot Ion:114 Resp: 342981

Ion Ratio Lower Upper

114 100

63 22.1 0.0 46.4

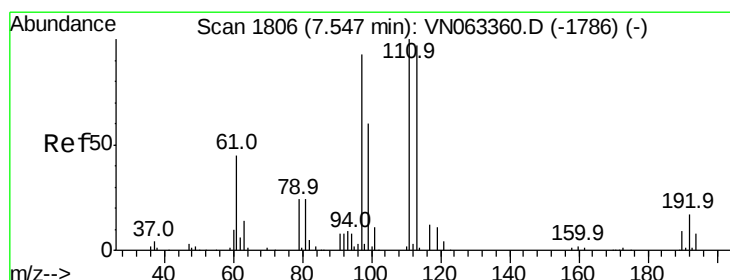
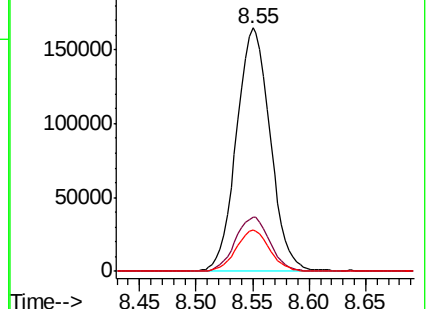
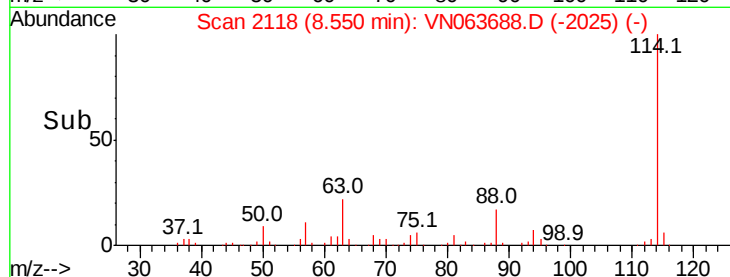
88 16.7 0.0 33.2



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: 49.177 ug/l

RT: 7.55 min Scan# 1806

Delta R.T. -0.00 min

Lab File: VN063688.D

Acq: 25 Sep 2020 19:06

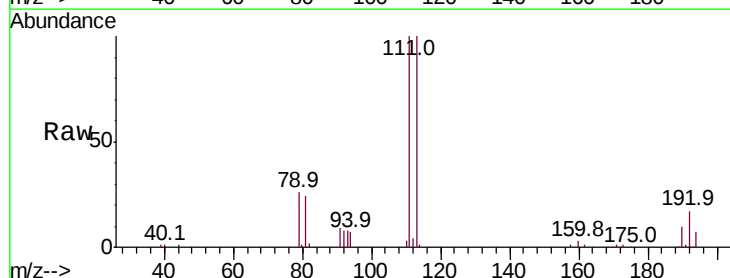
Tgt Ion:113 Resp: 116766

Ion Ratio Lower Upper

113 100

111 100.3 82.9 124.3

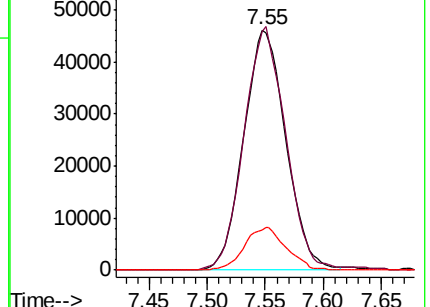
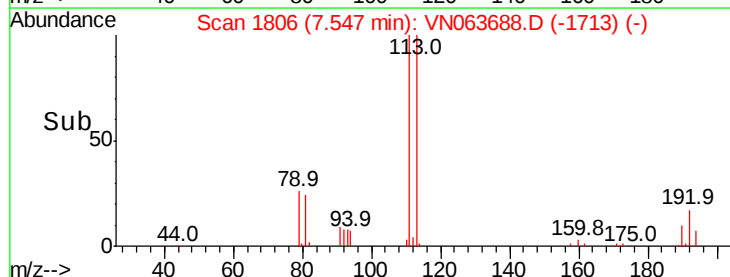
192 17.6 13.9 20.9

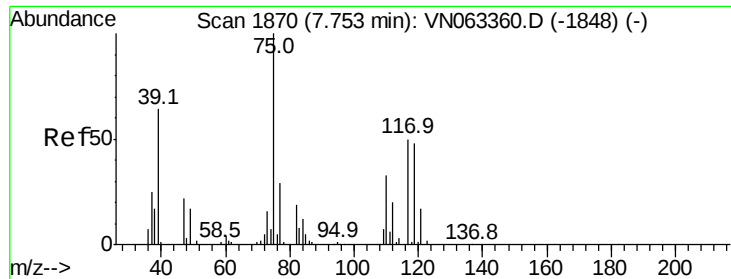


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

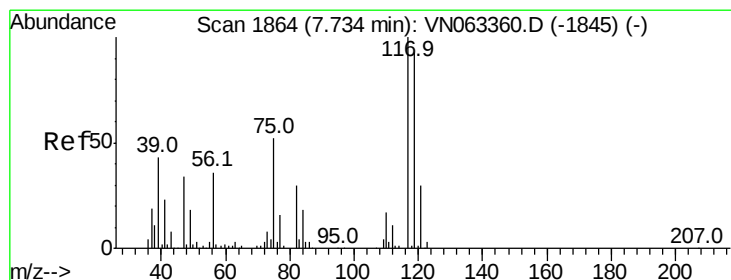
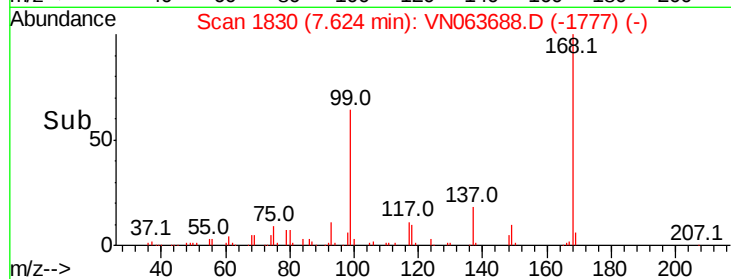
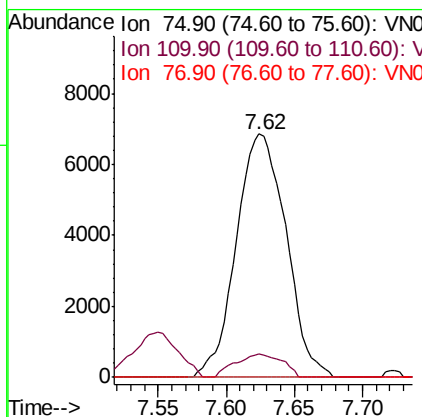
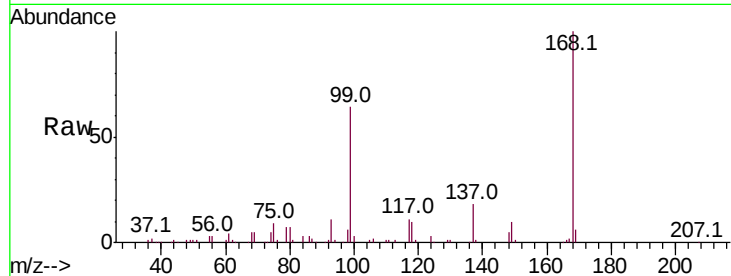




#36
 1,1-Dichloropropene
 Concen: 4.759 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063688.D
 Acq: 25 Sep 2020 19:06

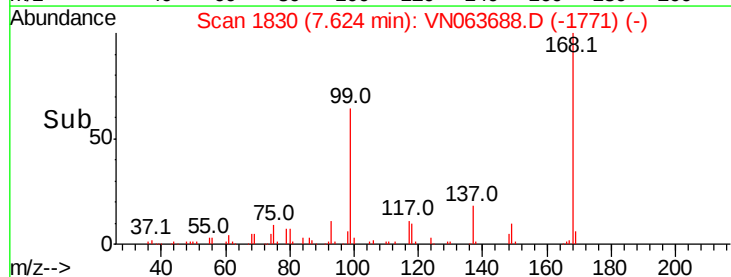
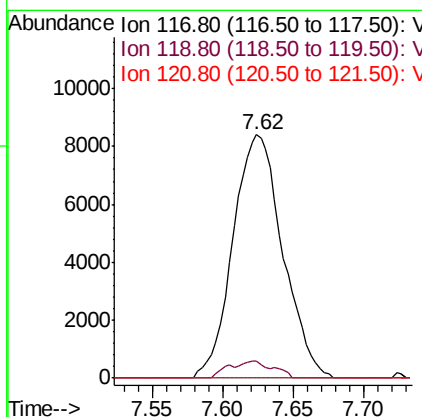
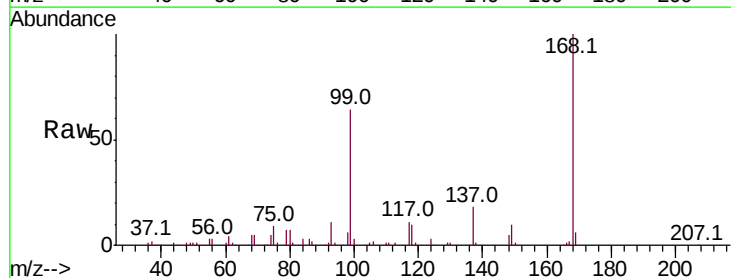
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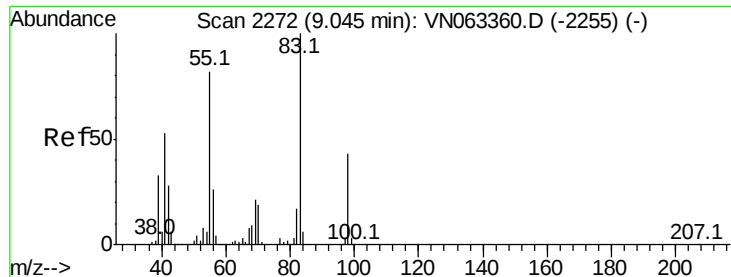
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.1	16.5	49.5#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.540 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.11 min
 Lab File: VN063688.D
 Acq: 25 Sep 2020 19:06

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.8	74.5	111.7#
121	0.0	24.1	36.1#





#39

Methylcyclohexane

Concen: 0.789 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.24 min

Lab File: VN063688.D

Acq: 25 Sep 2020 19:06

Instrument :

MSVOA_N

ClientSampleId :

RE122D1-20200921DL

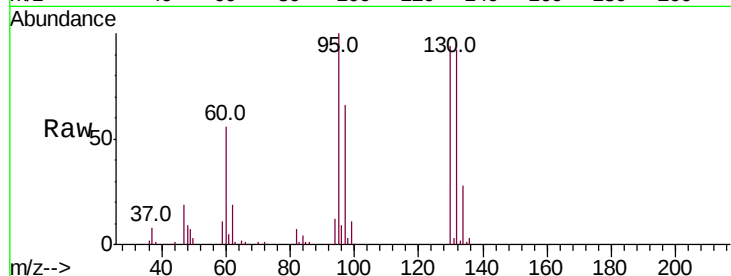
Tot Ion: 83 Resp: 3128

Ion Ratio Lower Upper

83 100

55 0.0 65.5 98.3#

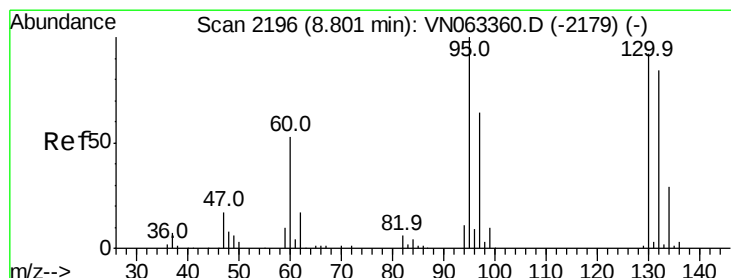
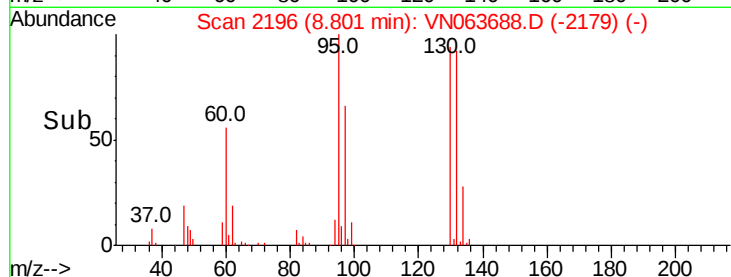
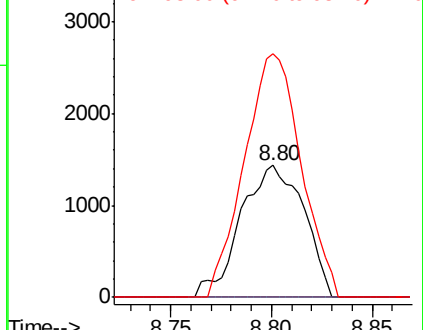
98 184.9 34.2 51.4#



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



#44

Trichloroethene

Concen: 79.220 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN063688.D

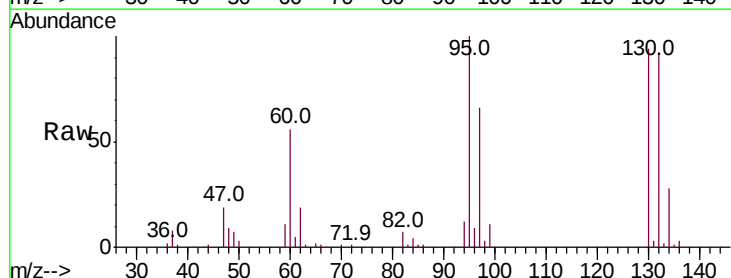
Acq: 25 Sep 2020 19:06

Tgt Ion:130 Resp: 200421

Ion Ratio Lower Upper

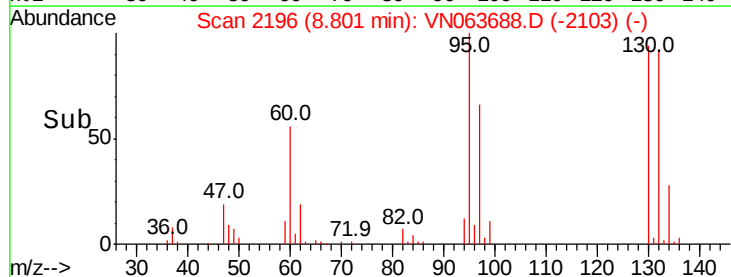
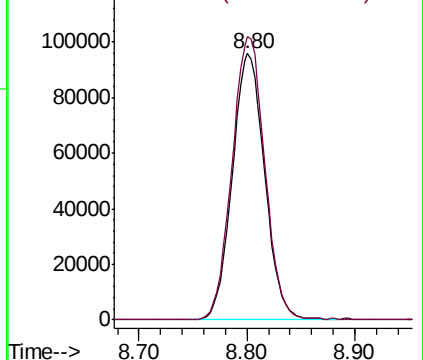
130 100

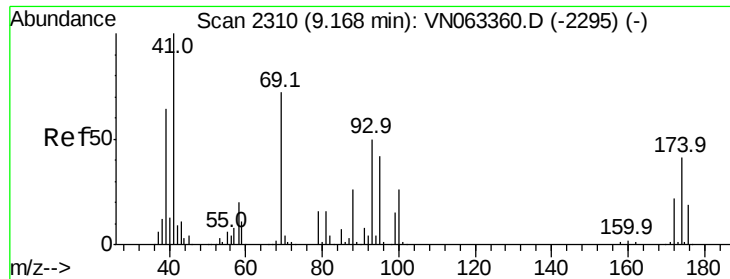
95 106.1 0.0 217.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0

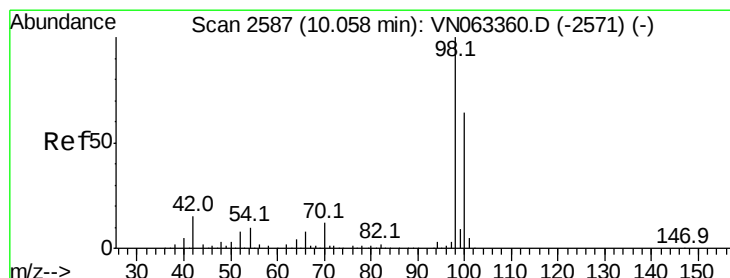
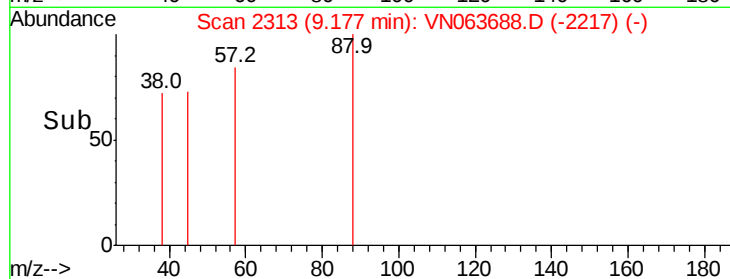
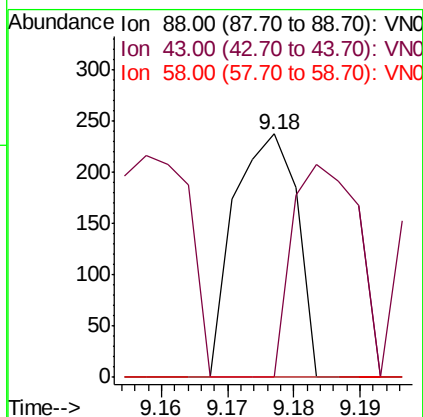
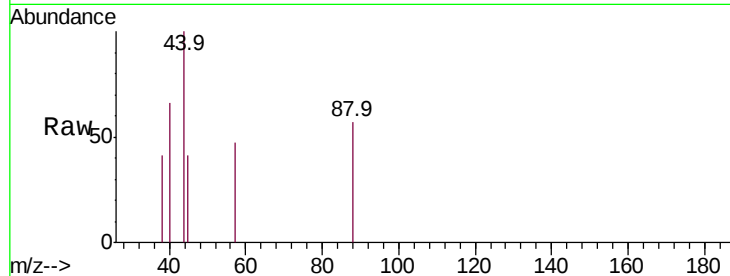




#49
1,4-Dioxane
Concen: 3.450 ug/l
RT: 9.18 min Scan# 2313
Delta R.T. 0.01 min
Lab File: VN063688.D
Acq: 25 Sep 2020 19:06

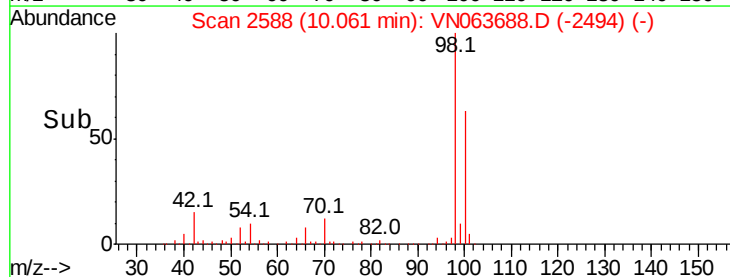
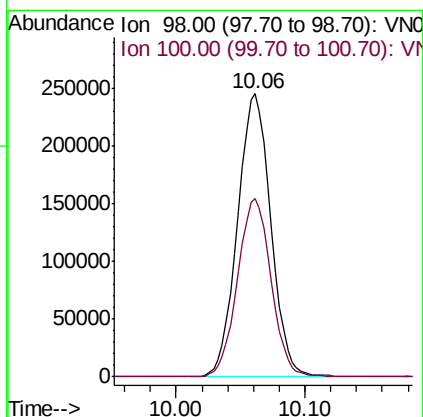
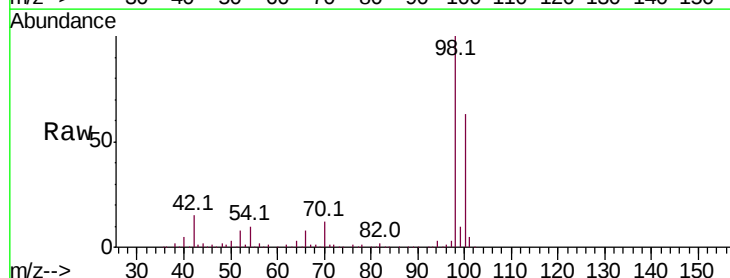
Instrument :
MSVOA_N
ClientSampleId :
RE122D1-20200921DL

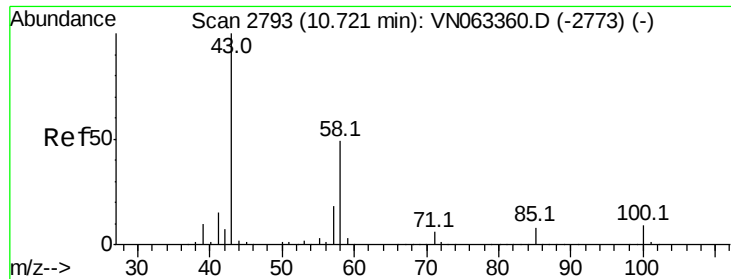
Tot Ion: 88 Resp: 156
Ion Ratio Lower Upper
88 100
43 91.7 32.6 49.0#
58 0.0 60.0 90.0#



#50
Toluene-d8
Concen: 49.483 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063688.D
Acq: 25 Sep 2020 19:06

Tgt Ion: 98 Resp: 441790
Ion Ratio Lower Upper
98 100
100 63.6 50.7 76.1





#59

2-Hexanone

Concen: 0.247 ug/l

RT: 10.73 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN063688.D

Acq: 25 Sep 2020 19:06

Instrument :

MSVOA_N

ClientSampleId :

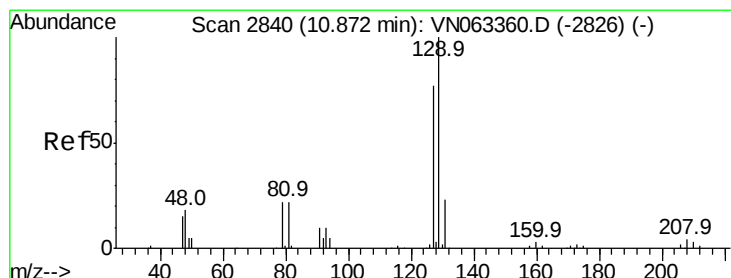
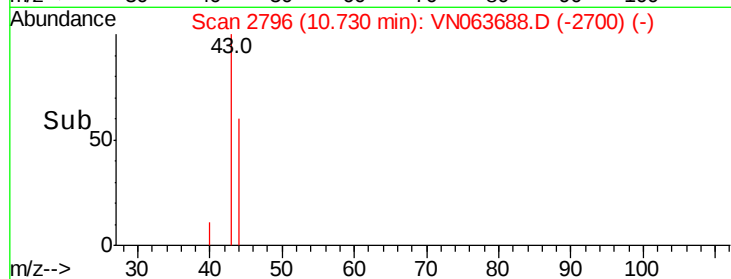
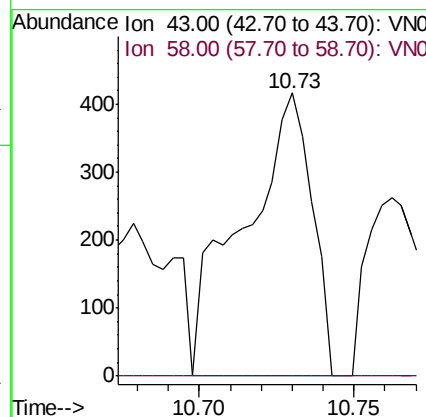
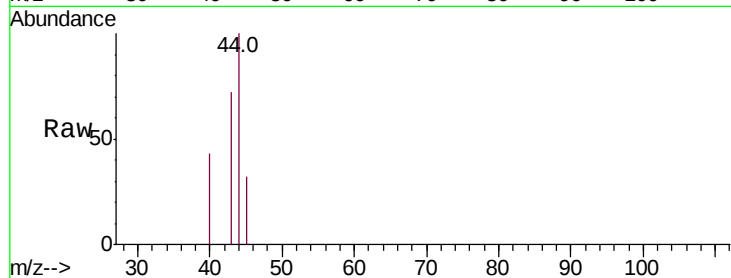
RE122D1-20200921DL

Tot Ion: 43 Resp: 642

Ion Ratio Lower Upper

43 100

58 0.0 24.7 74.1#



#60

Dibromochloromethane

Concen: 0.202 ug/l

RT: 10.60 min Scan# 2755

Delta R.T. -0.27 min

Lab File: VN063688.D

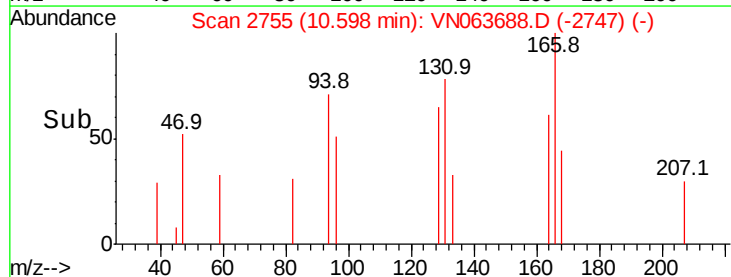
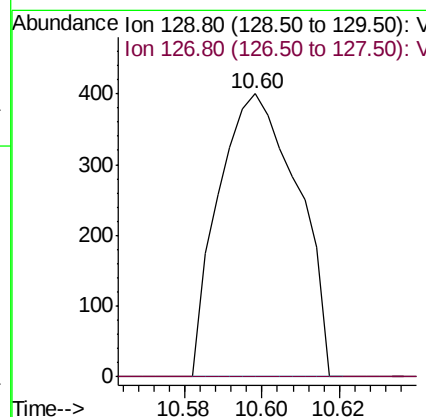
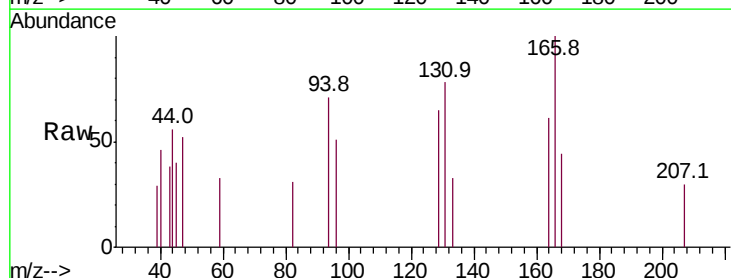
Acq: 25 Sep 2020 19:06

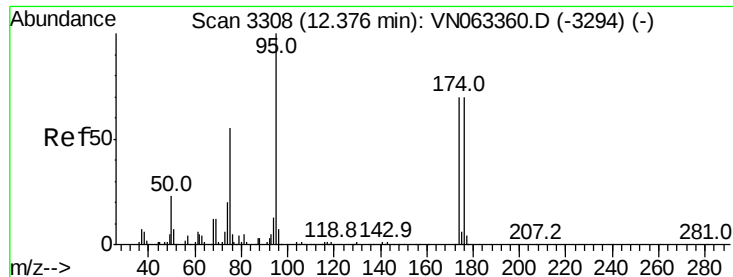
Tgt Ion: 129 Resp: 568

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.3#

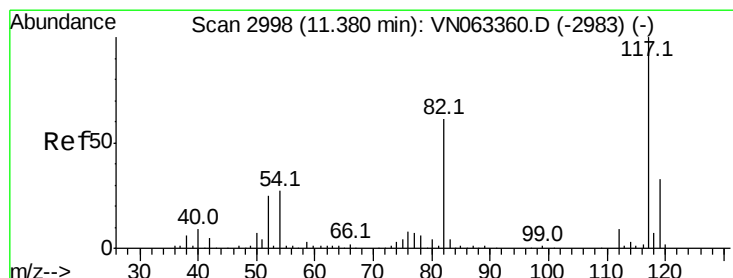
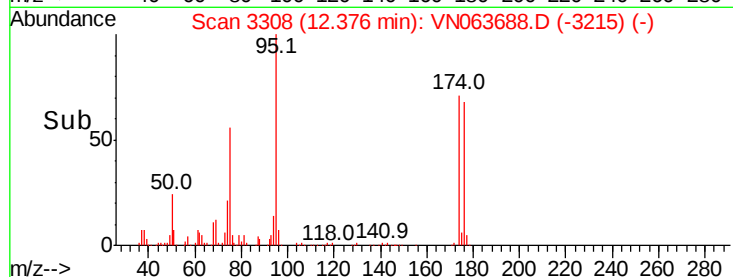
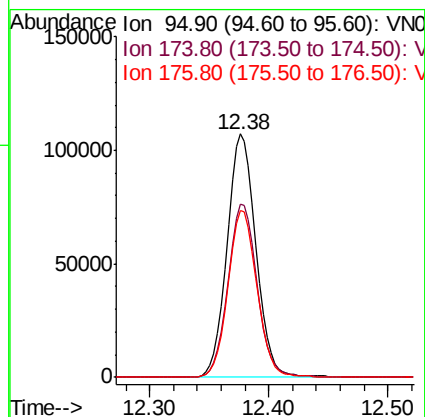
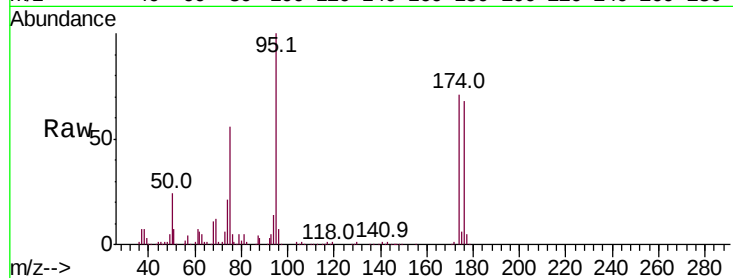




#62
4-Bromofluorobenzene
Concen: 55.045 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063688.D
Acq: 25 Sep 2020 19:06

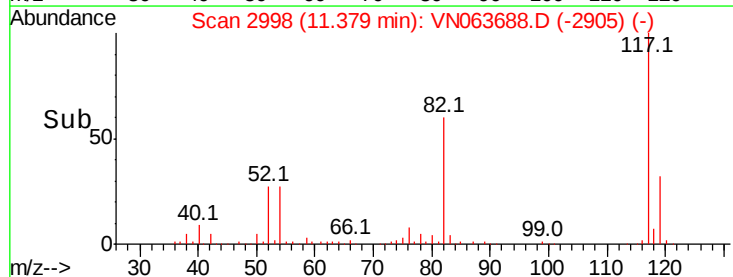
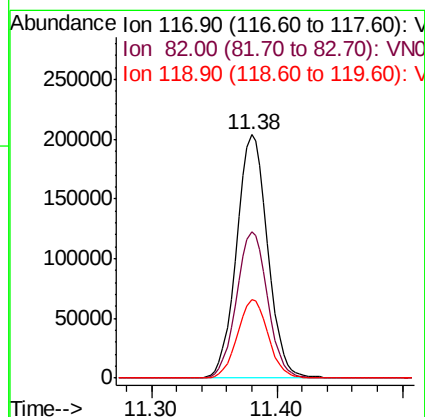
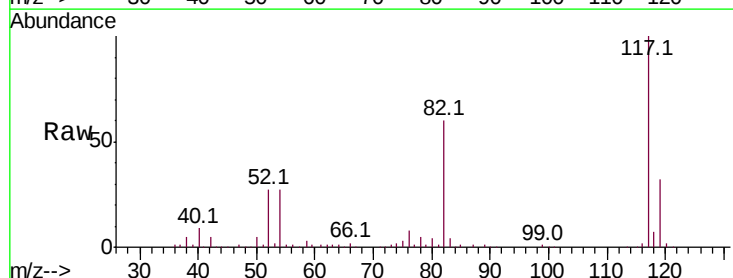
Instrument :
MSVOA_N
ClientSampleId :
RE122D1-20200921DL

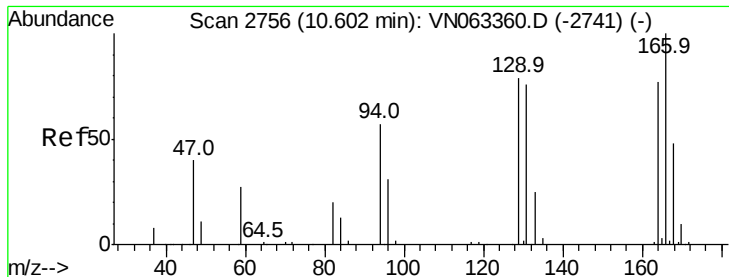
Tot Ion	Ratio	Lower	Upper
95	100		
174	71.8	0.0	140.8
176	68.9	0.0	137.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063688.D
Acq: 25 Sep 2020 19:06

Tgt Ion	Ratio	Lower	Upper
117	100		
82	60.1	49.2	73.8
119	32.1	26.2	39.4





#64

Tetrachloroethene

Concen: 0.367 ug/l

RT: 10.60 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VN063688.D

Acq: 25 Sep 2020 19:06

Instrument :

MSVOA_N

ClientSampleId :

RE122D1-20200921DL

Tot Ion:164 Resp: 876

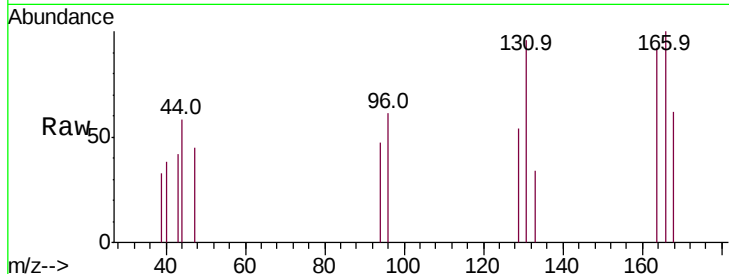
Ion Ratio Lower Upper

164 100

166 109.1 103.4 155.0

129 59.0 81.8 122.6#

131 104.6 78.2 117.4

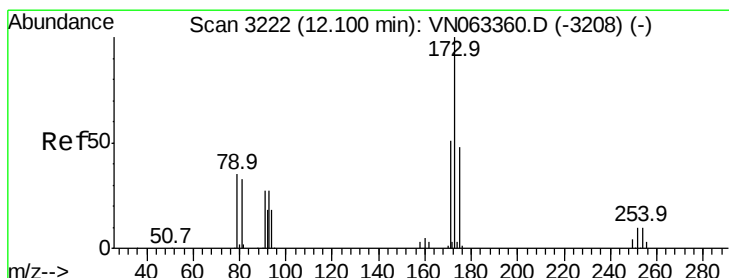
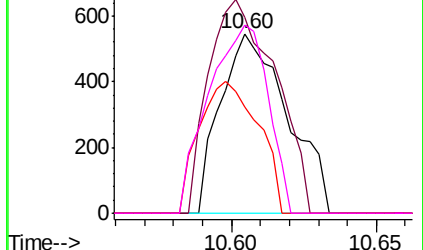
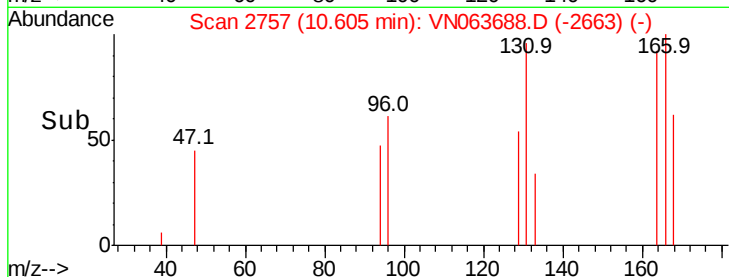


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 0.324 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.28 min

Lab File: VN063688.D

Acq: 25 Sep 2020 19:06

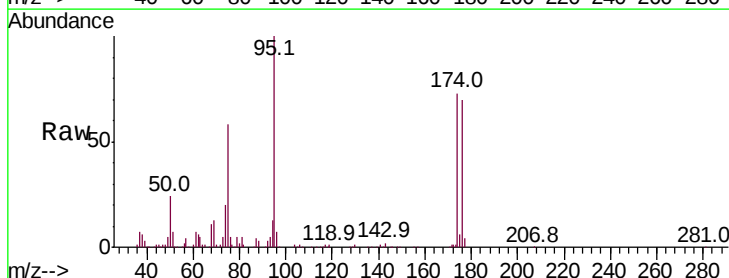
Tgt Ion:173 Resp: 658

Ion Ratio Lower Upper

173 100

175 1255.8 24.0 72.0#

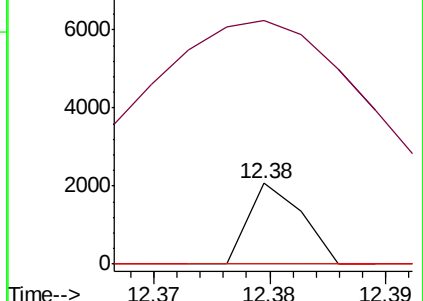
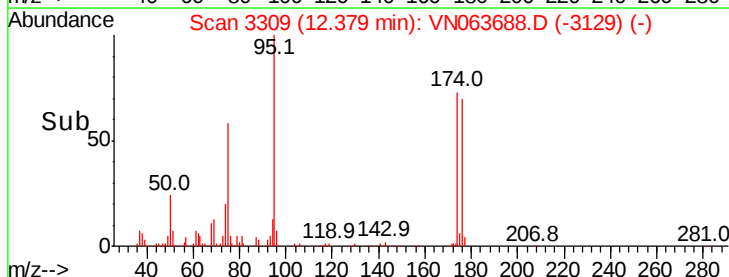
254 0.0 0.0 0.0

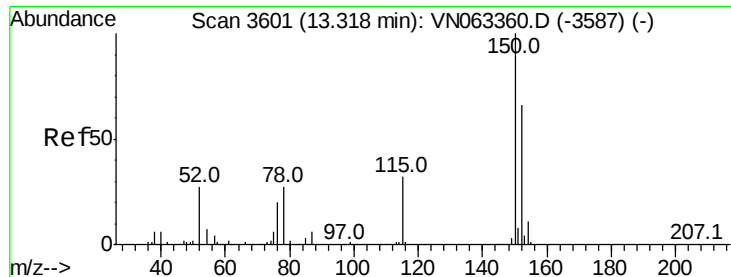


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063688.D

Acq: 25 Sep 2020 19:06

Instrument :

MSVOA_N

ClientSampleId :

RE122D1-20200921DL

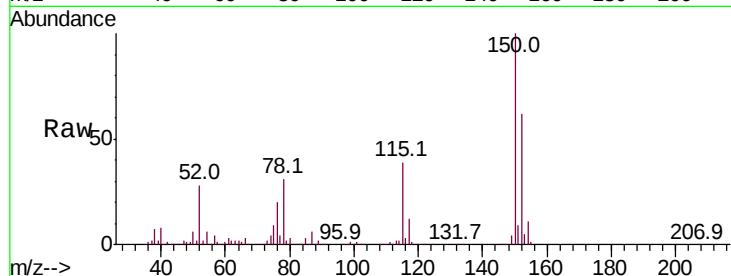
Tot Ion:152 Resp: 156060

Ion Ratio Lower Upper

152 100

115 63.8 32.2 96.6

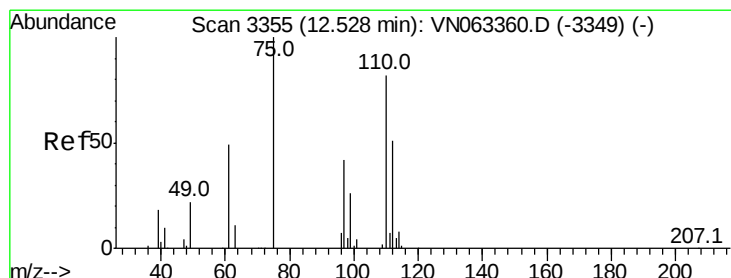
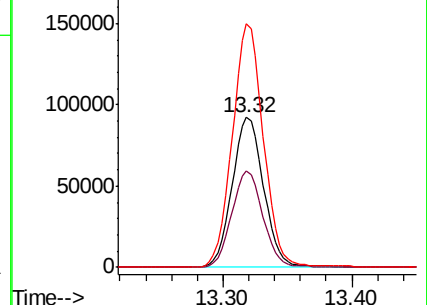
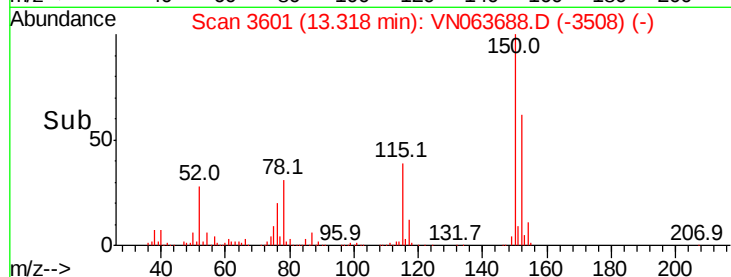
150 160.5 0.0 343.4



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: 26.265 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063688.D

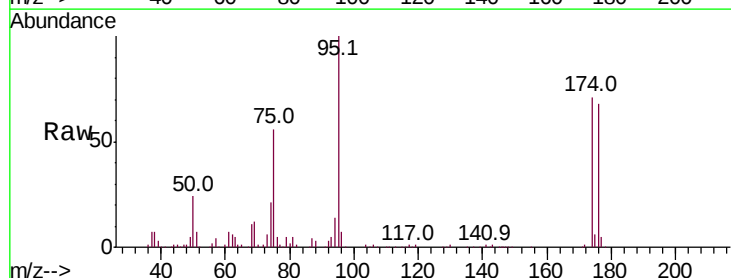
Acq: 25 Sep 2020 19:06

Tgt Ion: 75 Resp: 101453

Ion Ratio Lower Upper

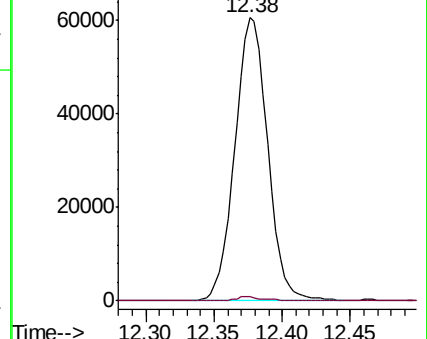
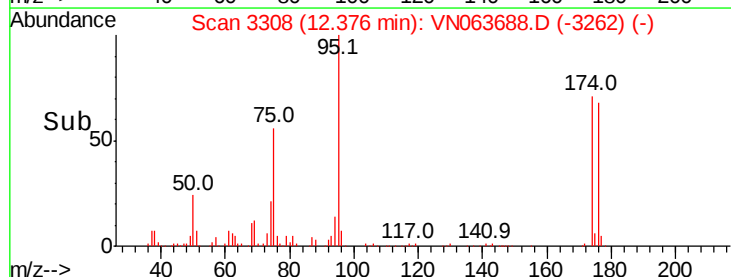
75 100

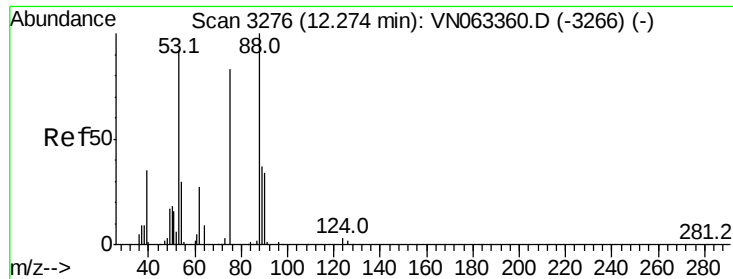
77 1.2 0.0 0.0#



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: 72.008 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063688.D

Acq: 25 Sep 2020 19:06

Instrument :

MSVOA_N

ClientSampleId :

RE122D1-20200921DL

Tot Ion: 75 Resp: 101453

Ion Ratio Lower Upper

75 100

53 0.1 85.7 128.5#

89 0.0 38.0 57.0#

