

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062220\
 Data File : VN062010.D
 Acq On : 22 Jun 2020 19:31
 Operator : JC/MD
 Sample : L3043-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE139D2-20200616

Quant Time: Jun 23 05:19:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 17 01:19:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	145562	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	271427	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	259937	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	94240	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	103479	53.01	ug/l	0.00
Spiked Amount			Recovery	=	106.02%	
35) Dibromofluoromethane	7.55	113	88917	51.21	ug/l	0.00
Spiked Amount			Recovery	=	102.42%	
50) Toluene-d8	10.06	98	343533	50.32	ug/l	0.00
Spiked Amount			Recovery	=	100.64%	
62) 4-Bromofluorobenzene	12.38	95	110975	47.39	ug/l	0.00
Spiked Amount			Recovery	=	94.78%	

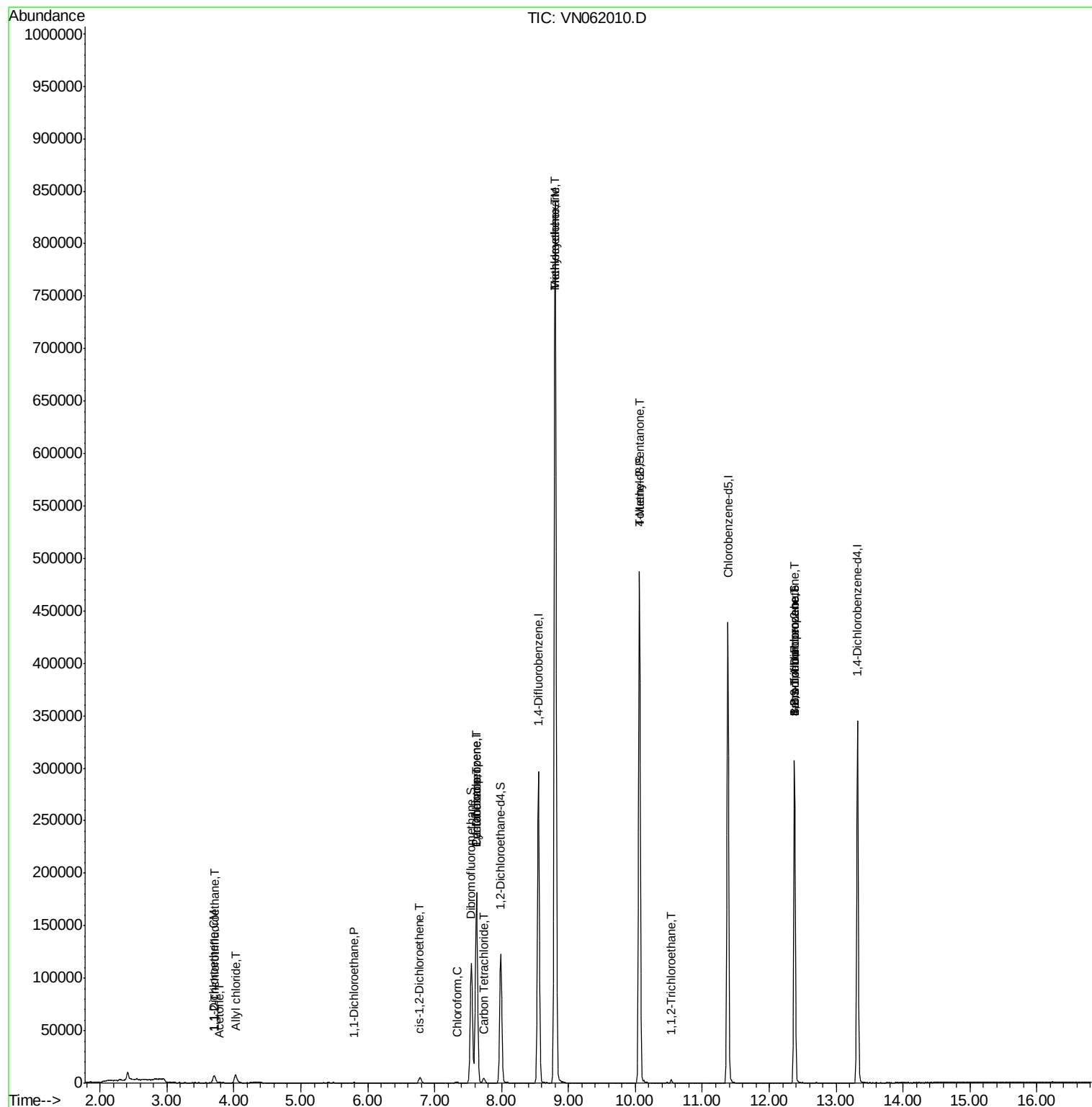
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) 1,1,2-Trichlorotrifluoroet	3.72	101	2725	1.846	ug/l	95
12) 1,1-Dichloroethene	3.69	96	2798	1.892	ug/l	96
14) Allyl chloride	4.02	41	1368	0.697	ug/l #	63
16) Acetone	3.78	43	1016	1.762	ug/l #	40
24) 1,1-Dichloroethane	5.80	63	900	0.306	ug/l #	82
27) cis-1,2-Dichloroethene	6.79	96	2878	1.468	ug/l	61
30) Chloroform	7.34	83	1351	0.430	ug/l	96
31) Cyclohexane	7.63	56	3120	1.213	ug/l #	21
36) 1,1-Dichloropropene	7.63	75	11749	4.746	ug/l #	48
38) Carbon Tetrachloride	7.74	117	3594	1.466	ug/l #	96
39) Methylcyclohexane	8.80	83	3830	1.437	ug/l #	1
44) Trichloroethene	8.80	130	314674	159.435	ug/l	99
51) 4-Methyl-2-Pentanone	10.06	43	1271	0.660	ug/l #	1
55) 1,1,2-Trichloroethane	10.53	97	1183	0.638	ug/l	93
71) Bromoform	12.38	173	897	0.643	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	55868	30.196	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	55868	82.358	ug/l #	14

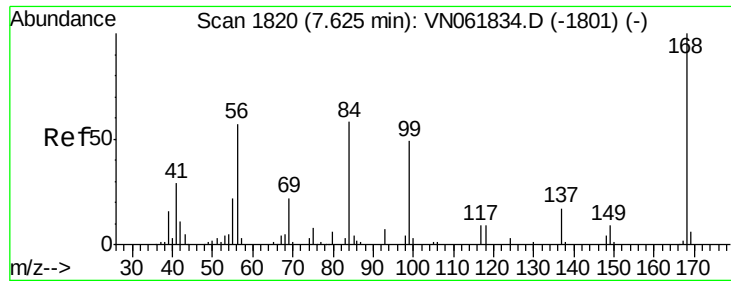
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062010.D

Acq: 22 Jun 2020 19:31

Instrument :

MSVOA_N

ClientSampleId :

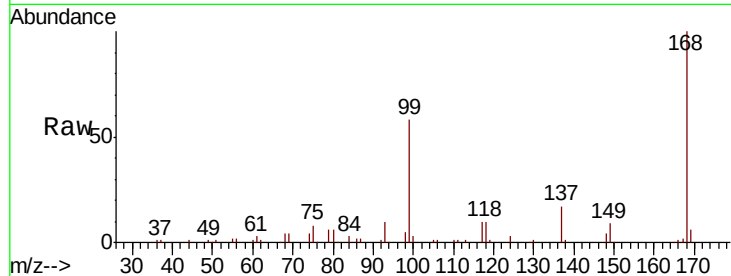
RE139D2-20200616

Tot Ion:168 Resp: 145562

Ion Ratio Lower Upper

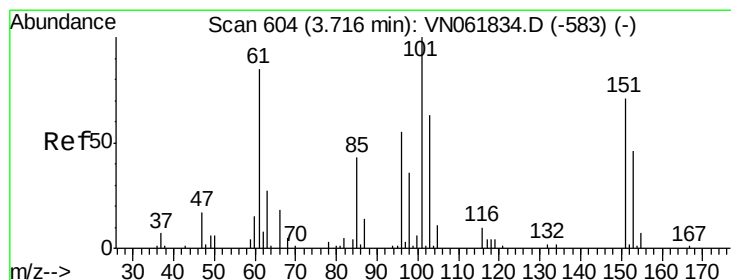
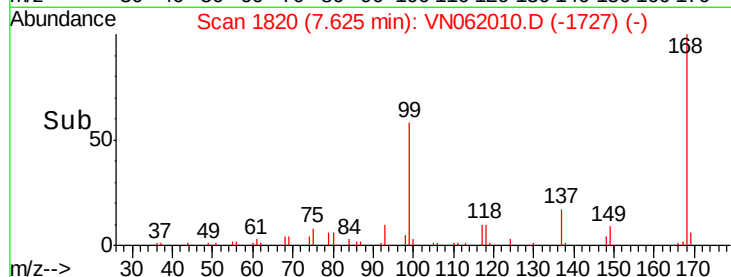
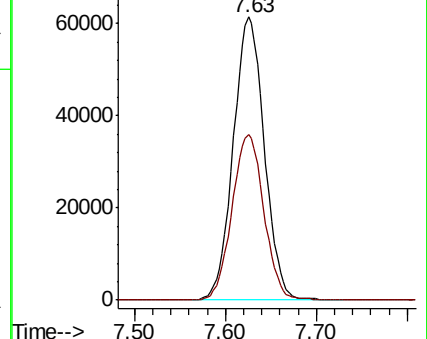
168 100

99 58.3 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.846 ug/l

RT: 3.72 min Scan# 605

Delta R.T. 0.00 min

Lab File: VN062010.D

Acq: 22 Jun 2020 19:31

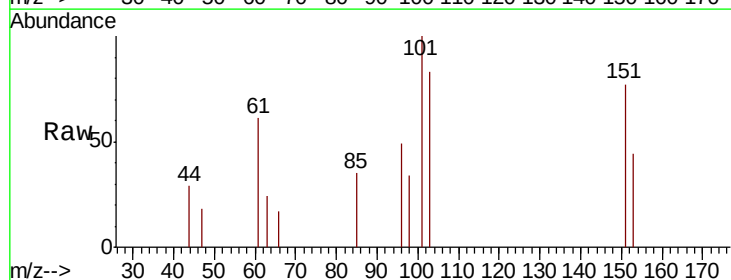
Tgt Ion:101 Resp: 2725

Ion Ratio Lower Upper

101 100

85 37.3 35.0 52.6

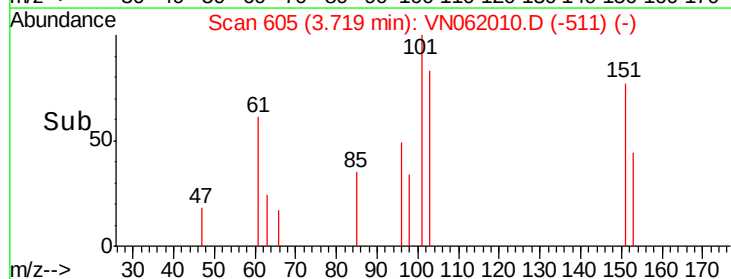
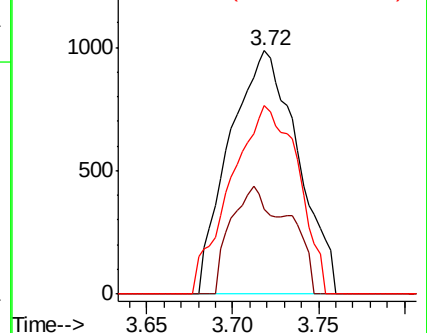
151 76.1 59.2 88.8

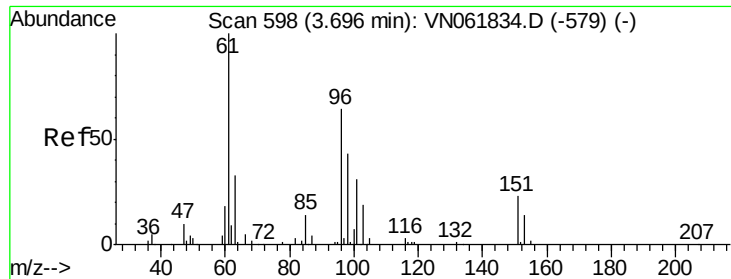


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V





#12

1,1-Dichloroethene

Concen: 1.892 ug/l

RT: 3.69 min Scan# 597

Delta R.T. -0.00 min

Lab File: VN062010.D

Acq: 22 Jun 2020 19:31

Instrument :

MSVOA_N

ClientSampleId :

RE139D2-20200616

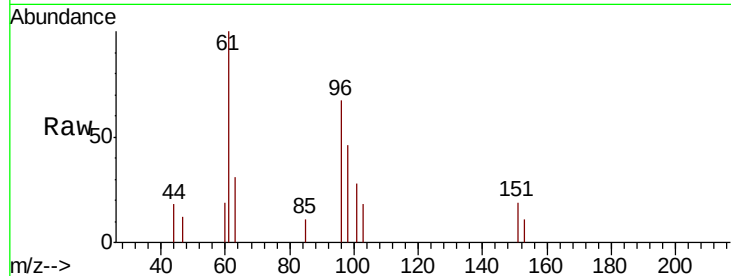
Tot Ion: 96 Resp: 2798

Ion Ratio Lower Upper

96 100

61 150.2 124.3 186.5

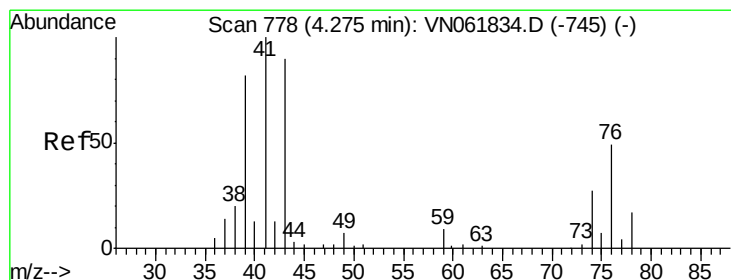
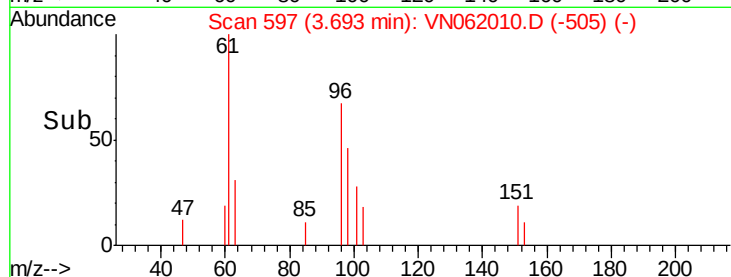
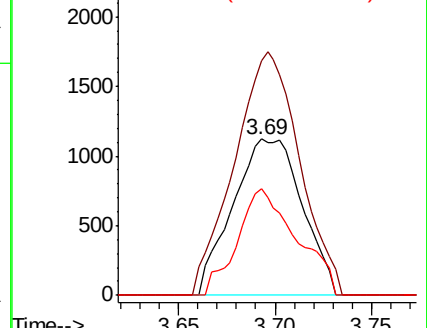
98 68.5 53.1 79.7



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



#14

Allyl chloride

Concen: 0.697 ug/l

RT: 4.02 min Scan# 699

Delta R.T. -0.25 min

Lab File: VN062010.D

Acq: 22 Jun 2020 19:31

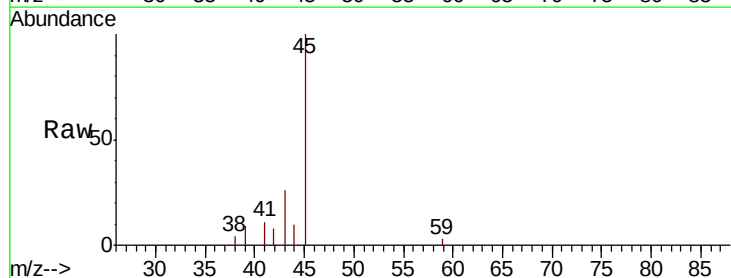
Tgt Ion: 41 Resp: 1368

Ion Ratio Lower Upper

41 100

39 90.0 60.2 90.2

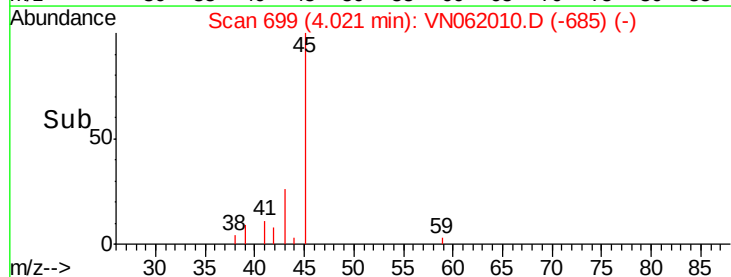
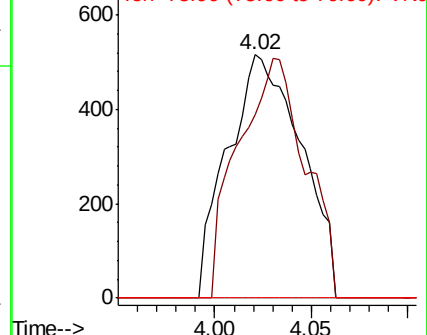
76 0.0 36.3 54.5#

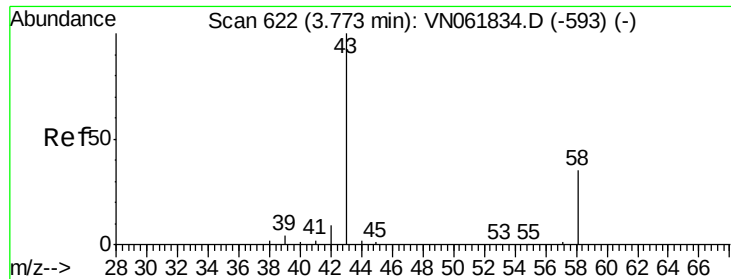


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#16

Acetone

Concen: 1.762 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN062010.D

Acq: 22 Jun 2020 19:31

Instrument :

MSVOA_N

ClientSampleId :

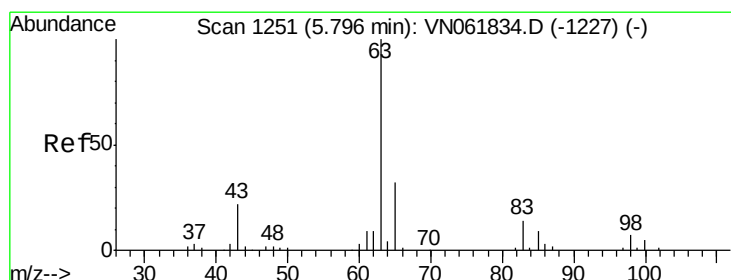
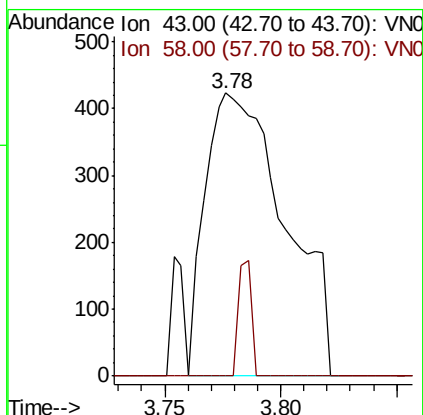
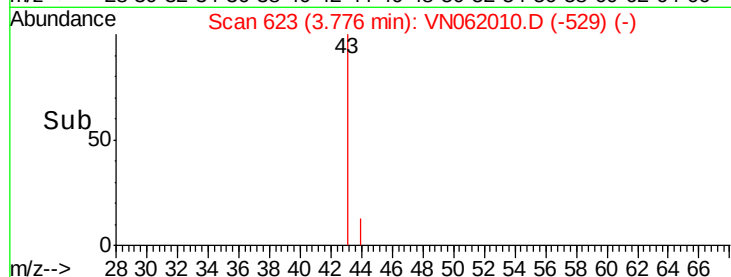
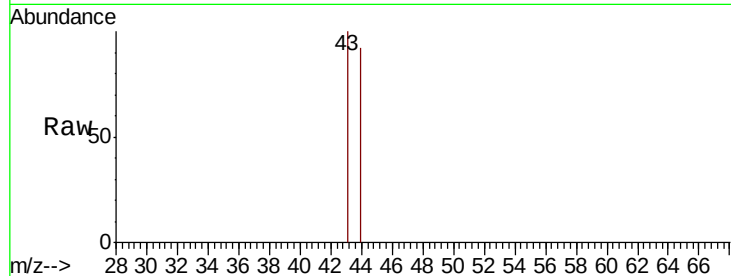
RE139D2-20200616

Tot Ion: 43 Resp: 1016

Ion Ratio Lower Upper

43 100

58 0.0 27.8 41.8#



#24

1,1-Dichloroethane

Concen: 0.306 ug/l

RT: 5.80 min Scan# 1253

Delta R.T. 0.01 min

Lab File: VN062010.D

Acq: 22 Jun 2020 19:31

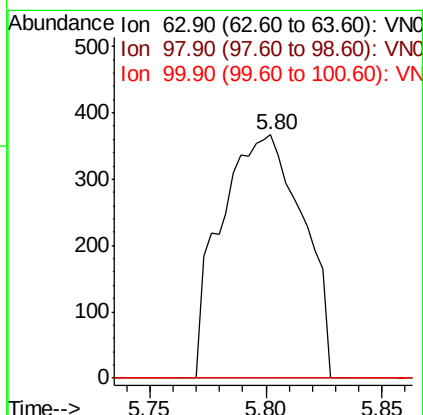
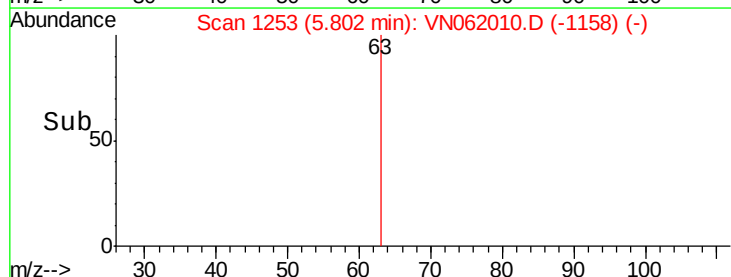
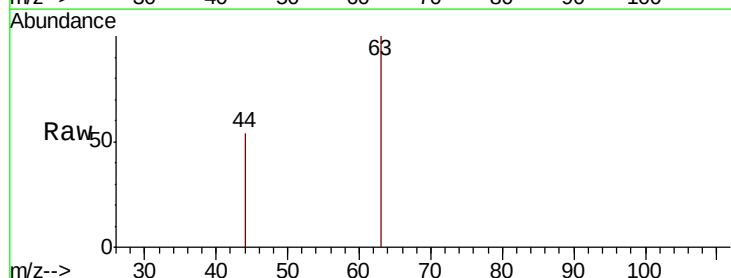
Tgt Ion: 63 Resp: 900

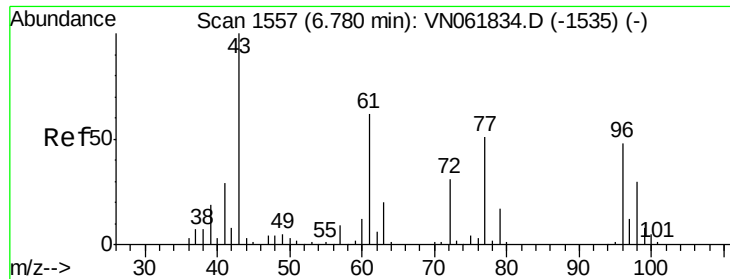
Ion Ratio Lower Upper

63 100

98 0.0 3.5 10.4#

100 0.0 2.5 7.4#

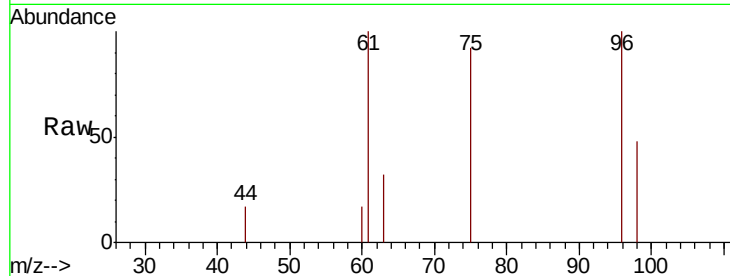




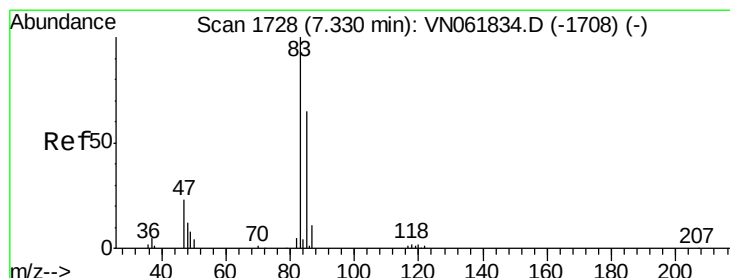
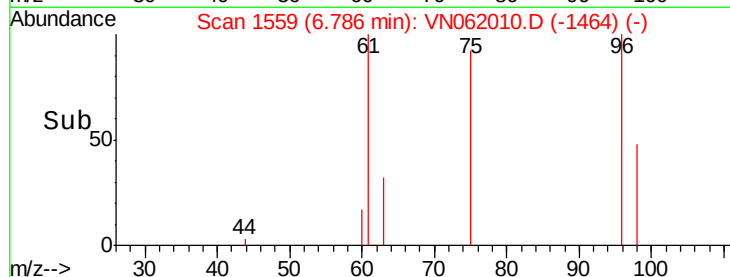
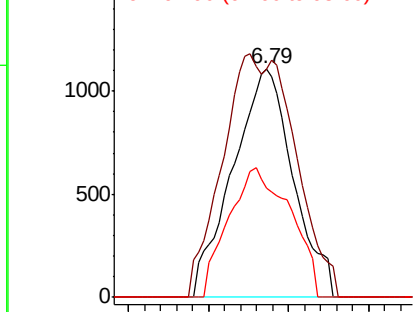
#27
 cis-1,2-Dichloroethene
 Concen: 1.468 ug/l
 RT: 6.79 min Scan# 1559
 Delta R.T. 0.01 min
 Lab File: VN062010.D
 Acq: 22 Jun 2020 19:31

Instrument :
 MSVOA_N
 ClientSampleId :
 RE139D2-20200616

Tot Ion: 96 Resp: 2878
 Ion Ratio Lower Upper
 96 100
 61 68.9 0.0 265.6
 98 57.9 0.0 128.2

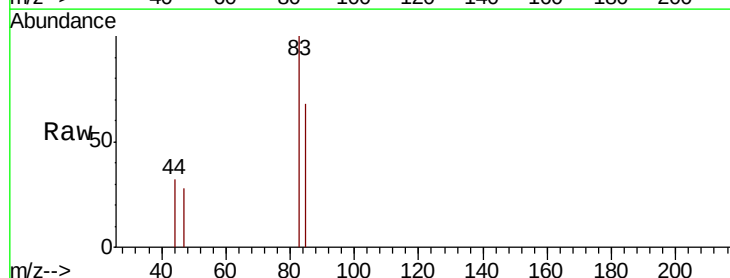


Abundance Ion 95.90 (95.60 to 96.60): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0

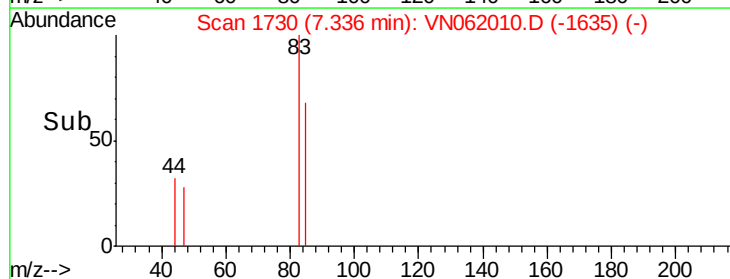
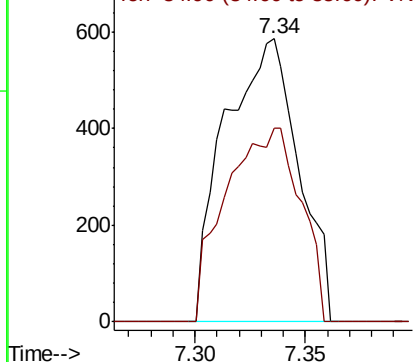


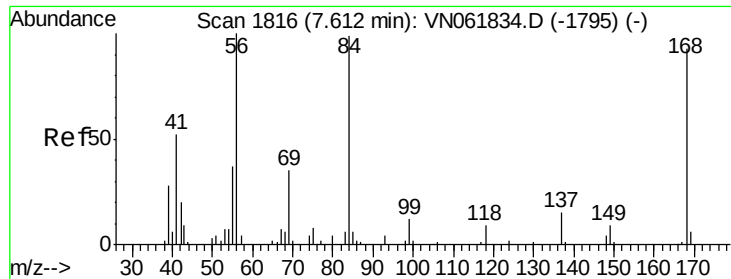
#30
 Chloroform
 Concen: 0.430 ug/l
 RT: 7.34 min Scan# 1730
 Delta R.T. 0.01 min
 Lab File: VN062010.D
 Acq: 22 Jun 2020 19:31

Tgt Ion: 83 Resp: 1351
 Ion Ratio Lower Upper
 83 100
 85 68.3 52.0 78.0



Abundance Ion 82.90 (82.60 to 83.60): VN0
 Ion 84.90 (84.60 to 85.60): VN0

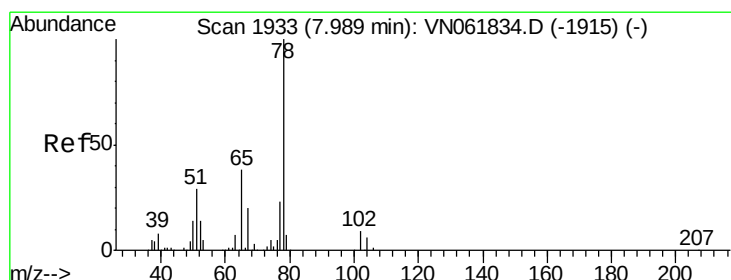
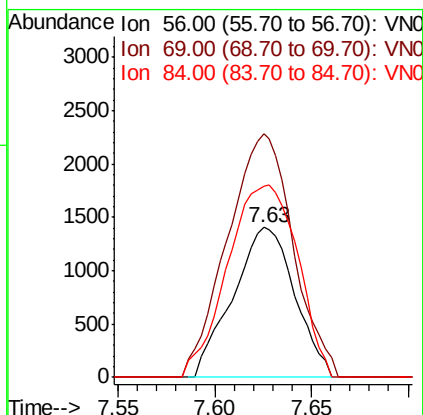
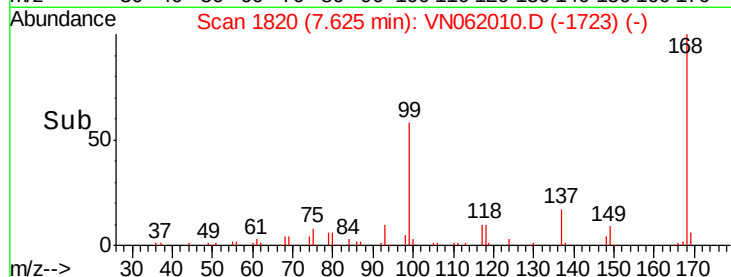
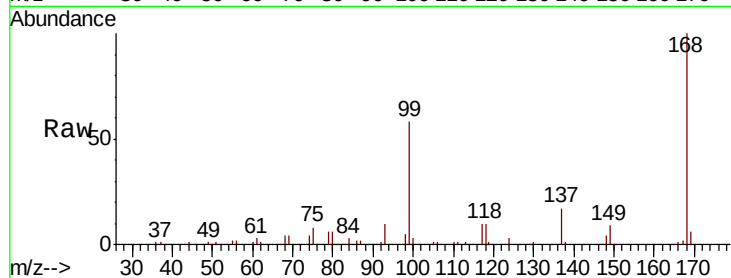




#31
Cyclohexane
Concen: 1.213 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN062010.D
Acq: 22 Jun 2020 19:31

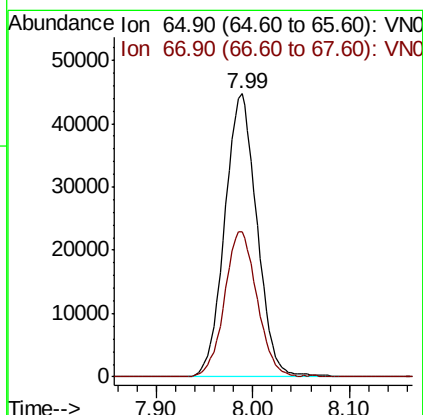
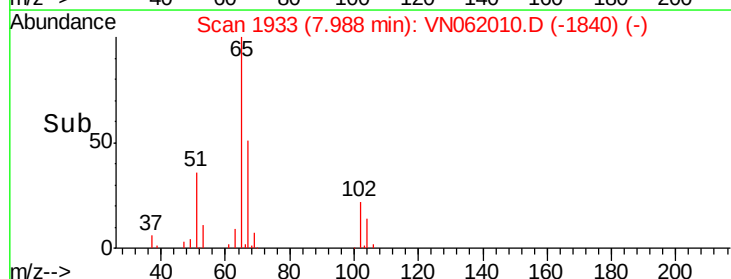
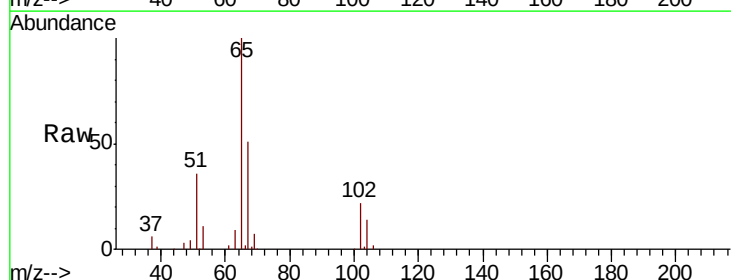
Instrument :
MSVOA_N
ClientSampleId :
RE139D2-20200616

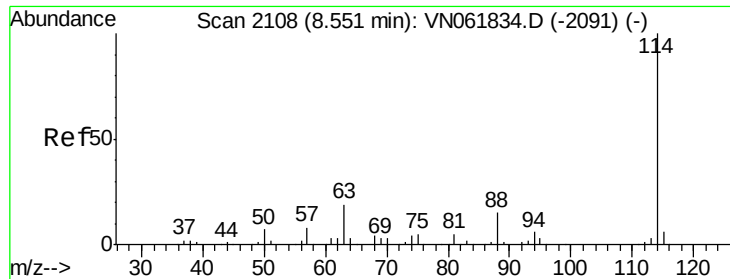
Tot Ion: 56 Resp: 3120
Ion Ratio Lower Upper
56 100
69 162.3 27.7 41.5#
84 127.5 79.1 118.7#



#33
1,2-Dichloroethane-d4
Concen: 53.006 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. -0.00 min
Lab File: VN062010.D
Acq: 22 Jun 2020 19:31

Tgt Ion: 65 Resp: 103479
Ion Ratio Lower Upper
65 100
67 51.7 0.0 106.2

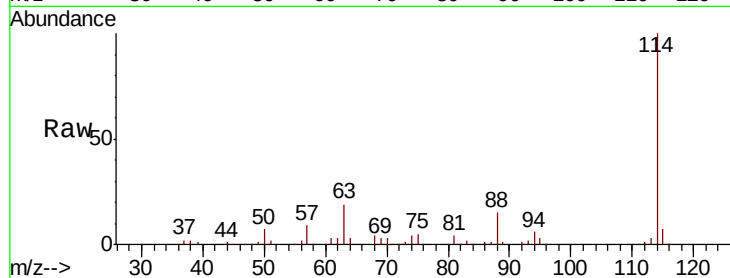




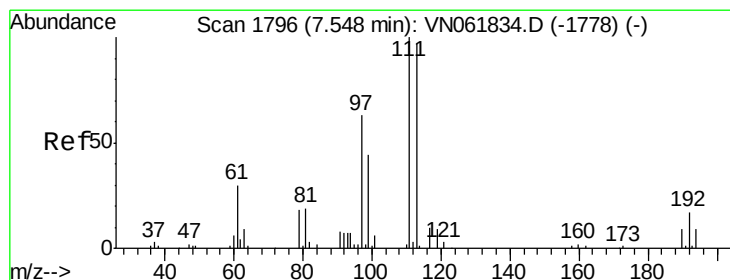
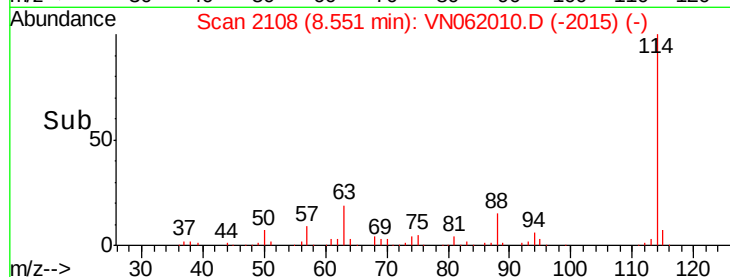
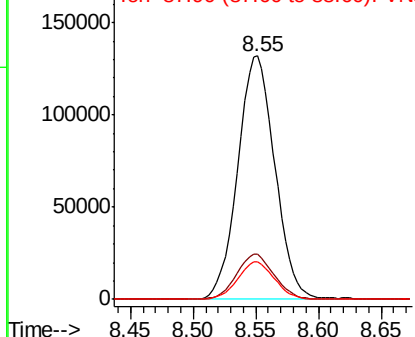
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. -0.00 min
Lab File: VN062010.D
Acq: 22 Jun 2020 19:31

Instrument :
MSVOA_N
ClientSampleId :
RE139D2-20200616

Tot Ion:114 Resp: 271427
Ion Ratio Lower Upper
114 100
63 18.5 0.0 37.6
88 15.4 0.0 31.0

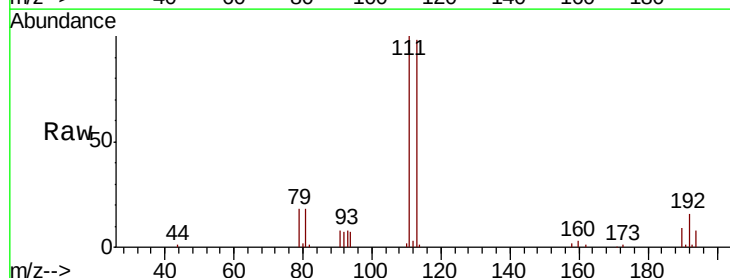


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

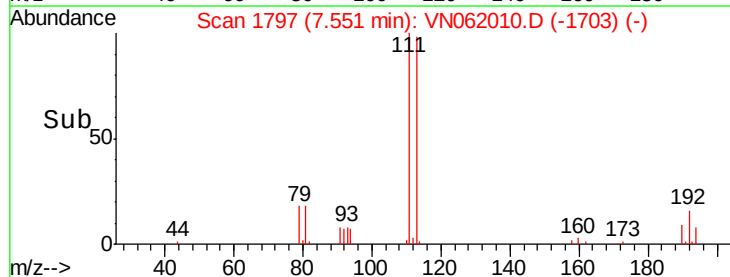
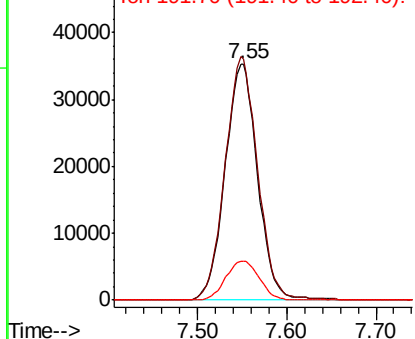


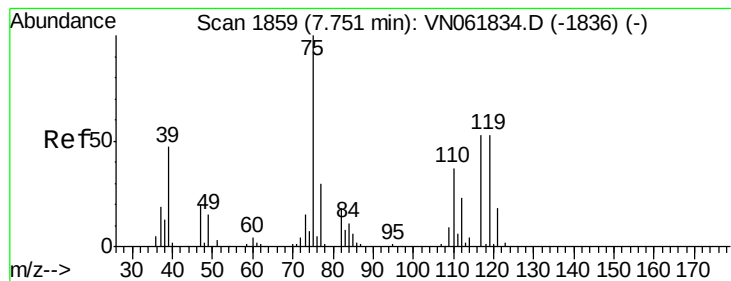
#35
Dibromofluoromethane
Concen: 51.206 ug/l
RT: 7.55 min Scan# 1797
Delta R.T. 0.00 min
Lab File: VN062010.D
Acq: 22 Jun 2020 19:31

Tgt Ion:113 Resp: 88917
Ion Ratio Lower Upper
113 100
111 103.1 83.7 125.5
192 17.0 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: 4.746 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.12 min

Lab File: VN062010.D

Acq: 22 Jun 2020 19:31

Instrument :

MSVOA_N

ClientSampleId :

RE139D2-20200616

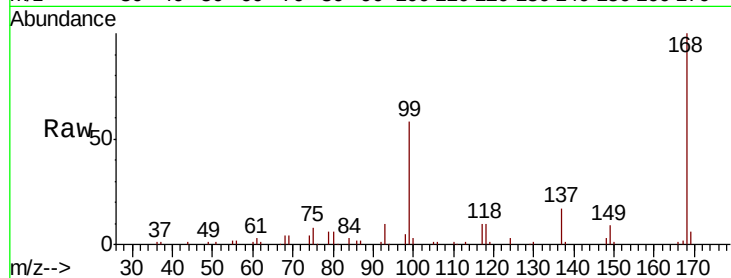
Tot Ion: 75 Resp: 11749

Ion Ratio Lower Upper

75 100

110 7.7 18.2 54.6#

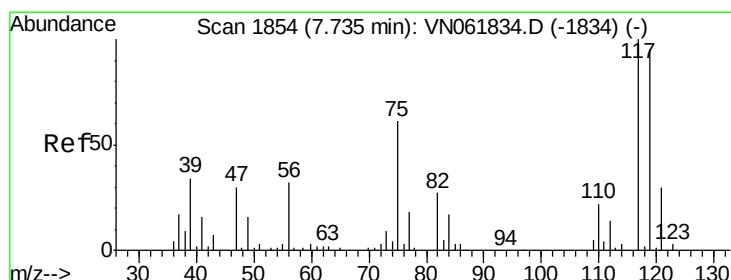
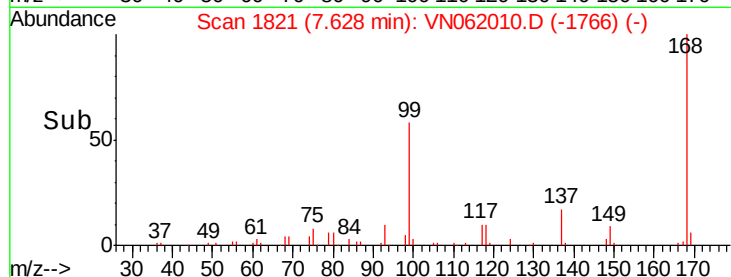
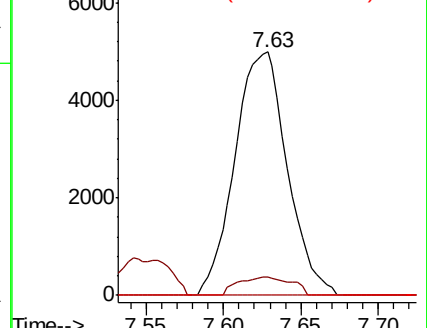
77 0.0 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VN061834.D (-1836) (-)

Ion 109.90 (109.60 to 110.60): VN061834.D (-1836) (-)

Ion 76.90 (76.60 to 77.60): VN061834.D (-1836) (-)



#38

Carbon Tetrachloride

Concen: 1.466 ug/l

RT: 7.74 min Scan# 1855

Delta R.T. 0.00 min

Lab File: VN062010.D

Acq: 22 Jun 2020 19:31

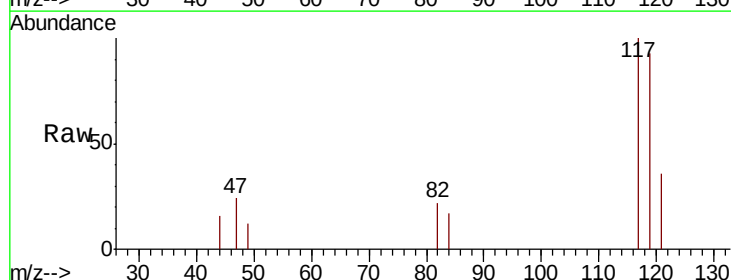
Tgt Ion: 117 Resp: 3594

Ion Ratio Lower Upper

117 100

119 92.7 75.8 113.6

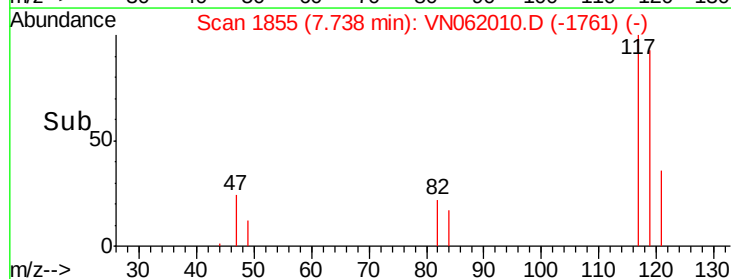
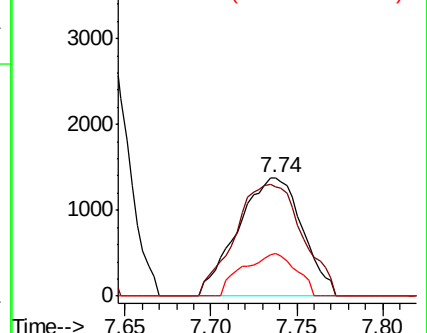
121 35.8 23.8 35.6#

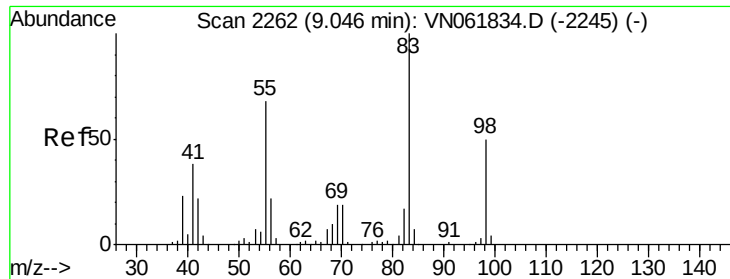


Abundance Ion 116.80 (116.50 to 117.50): VN061834.D (-1834) (-)

Ion 118.80 (118.50 to 119.50): VN061834.D (-1834) (-)

Ion 120.80 (120.50 to 121.50): VN061834.D (-1834) (-)

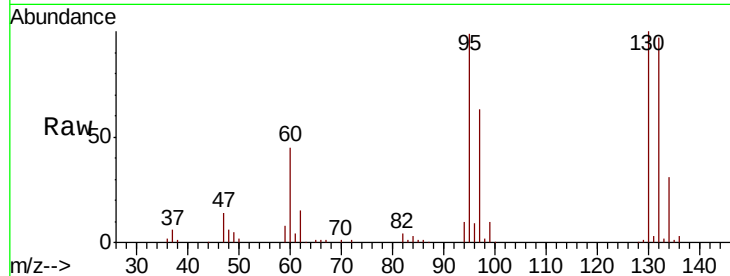




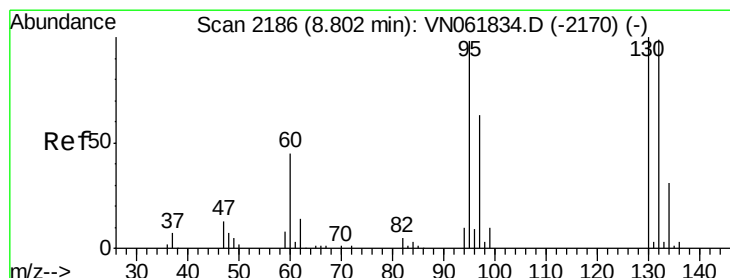
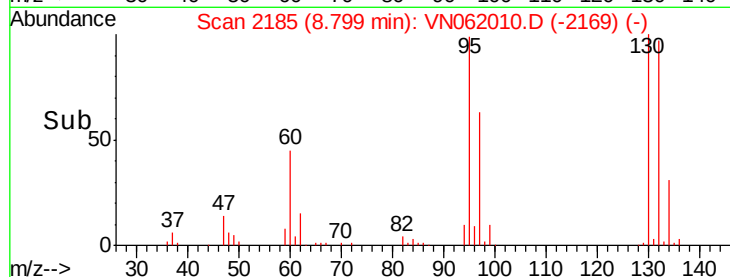
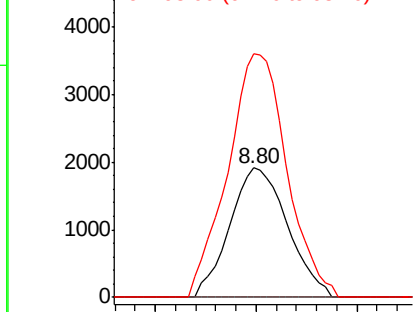
#39
Methylcyclohexane
Concen: 1.437 ug/l
RT: 8.80 min Scan# 2185
Delta R.T. -0.25 min
Lab File: VN062010.D
Acq: 22 Jun 2020 19:31

Instrument :
MSVOA_N
ClientSampleId :
RE139D2-20200616

Tot Ion: 83 Resp: 3830
Ion Ratio Lower Upper
83 100
55 0.0 54.2 81.4#
98 188.5 39.8 59.6#

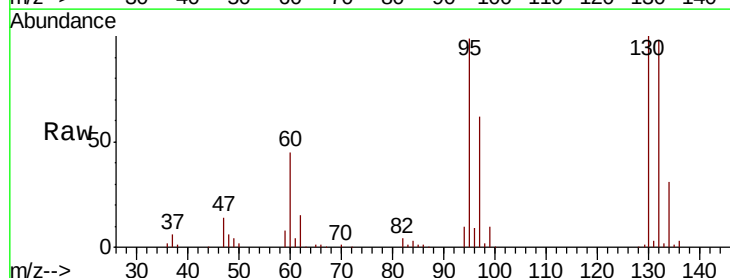


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

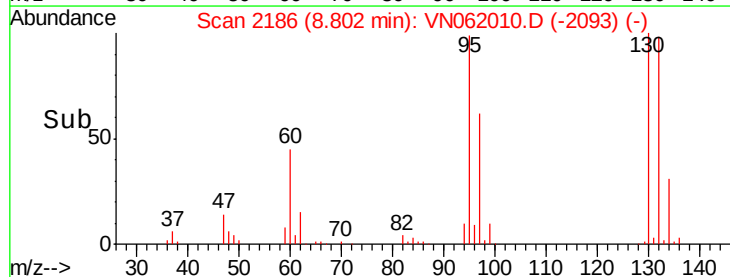
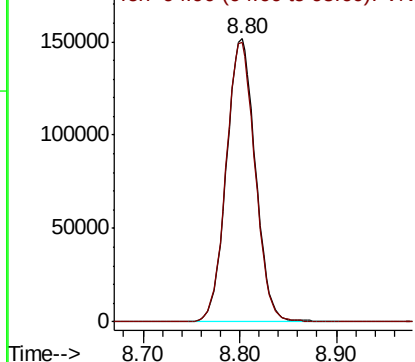


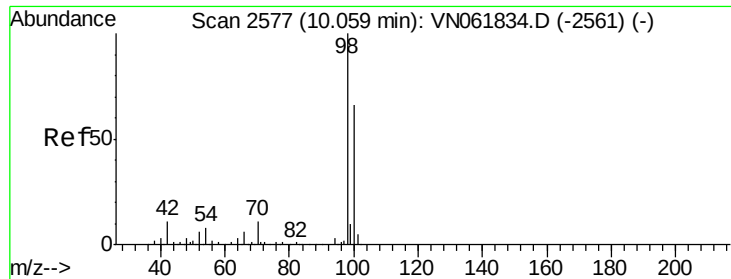
#44
Trichloroethene
Concen: 159.435 ug/l
RT: 8.80 min Scan# 2186
Delta R.T. -0.00 min
Lab File: VN062010.D
Acq: 22 Jun 2020 19:31

Tgt Ion:130 Resp: 314674
Ion Ratio Lower Upper
130 100
95 98.7 0.0 195.6



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VN0





#50

Toluene-d8

Concen: 50.322 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062010.D

Acq: 22 Jun 2020 19:31

Instrument :

MSVOA_N

ClientSampleId :

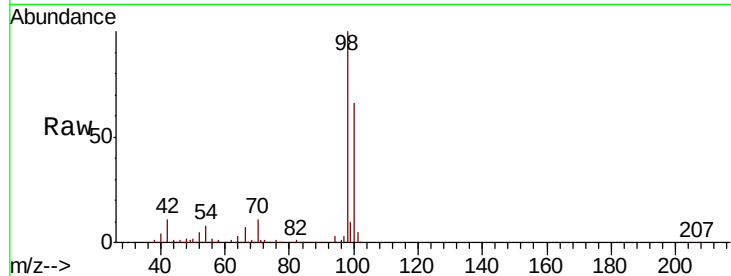
RE139D2-20200616

Tot Ion: 98 Resp: 343533

Ion Ratio Lower Upper

98 100

100 65.3 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN061834.D (-2561) (-)

Ion 100.00 (99.70 to 100.70): VN061834.D (-2561) (-)

10.06

200000

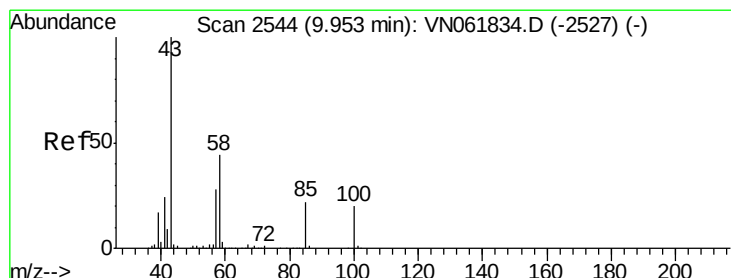
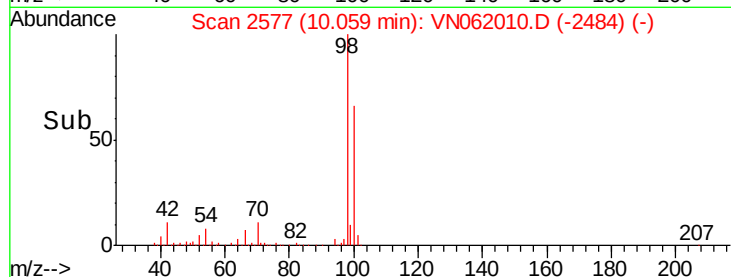
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.660 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.11 min

Lab File: VN062010.D

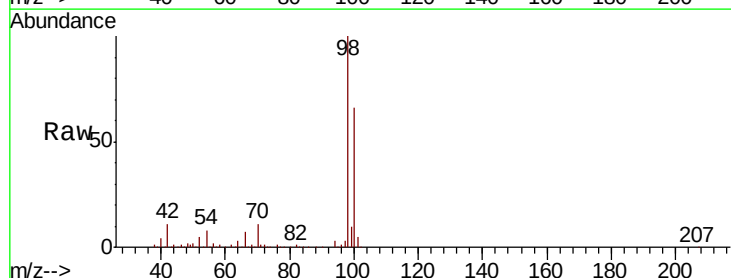
Acq: 22 Jun 2020 19:31

Tgt Ion: 43 Resp: 1271

Ion Ratio Lower Upper

43 100

58 183.2 34.6 52.0#



Abundance Ion 43.00 (42.70 to 43.70): VN061834.D (-2527) (-)

Ion 58.00 (57.70 to 58.70): VN061834.D (-2527) (-)

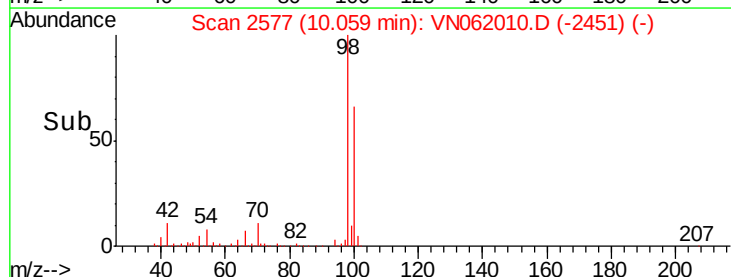
1500

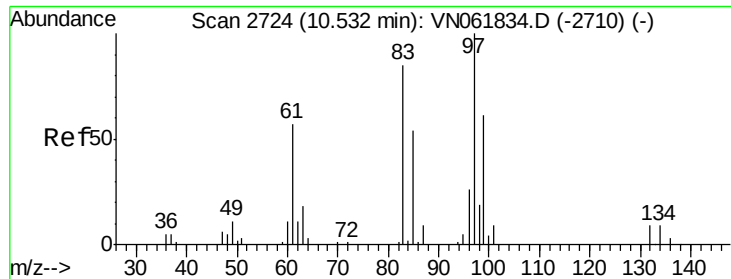
1000

500

0

Time-->

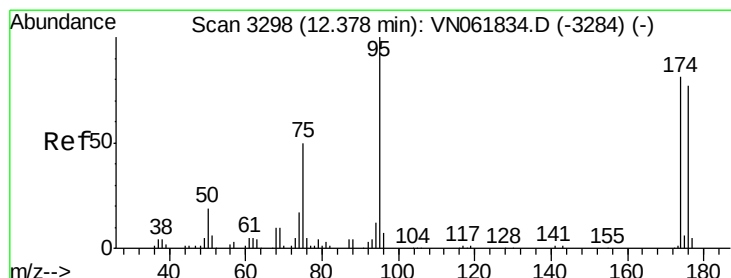
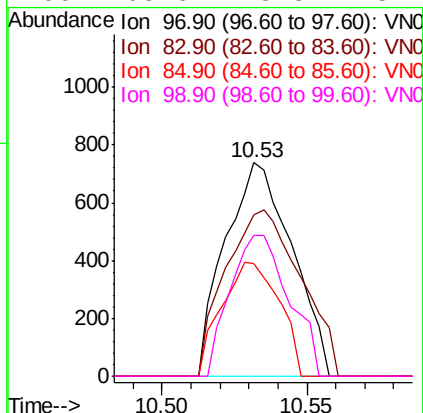
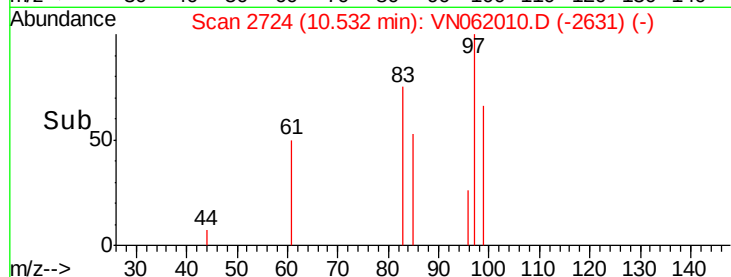
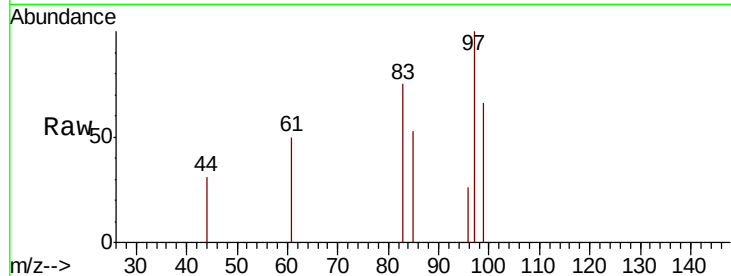




#55
 1,1,2-Trichloroethane
 Concen: 0.638 ug/l
 RT: 10.53 min Scan# 2724
 Delta R.T. -0.00 min
 Lab File: VN062010.D
 Acq: 22 Jun 2020 19:31

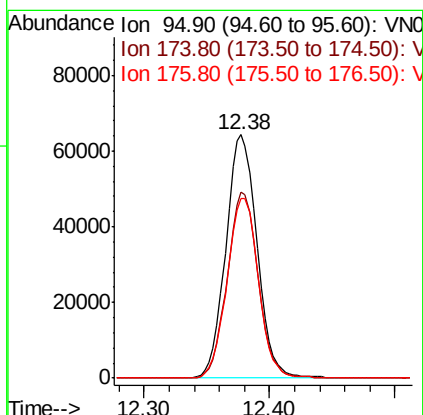
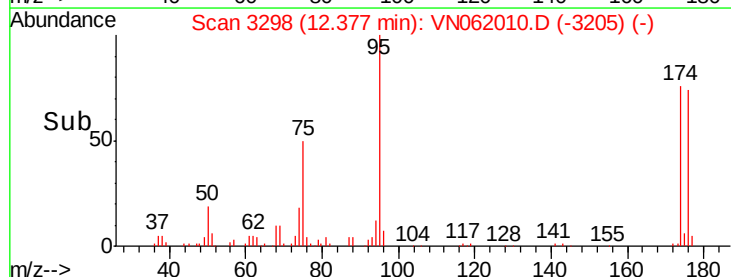
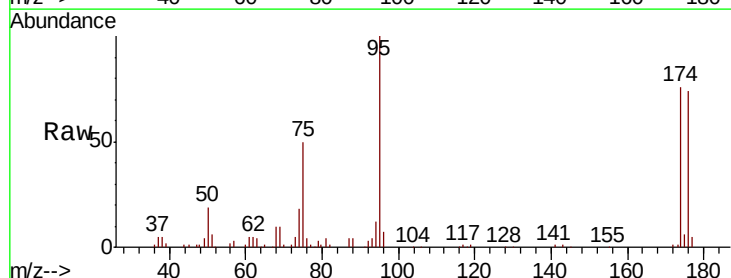
Instrument :
 MSVOA_N
 ClientSampleId :
 RE139D2-20200616

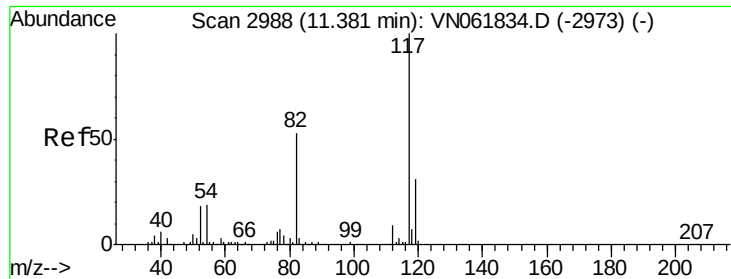
Tot Ion: 97 Resp: 1183
 Ion Ratio Lower Upper
 97 100
 83 75.2 67.7 101.5
 85 52.9 43.4 65.0
 99 65.6 48.8 73.2



#62
 4-Bromofluorobenzene
 Concen: 47.392 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.00 min
 Lab File: VN062010.D
 Acq: 22 Jun 2020 19:31

Tgt Ion: 95 Resp: 110975
 Ion Ratio Lower Upper
 95 100
 174 75.6 0.0 158.6
 176 74.4 0.0 152.0

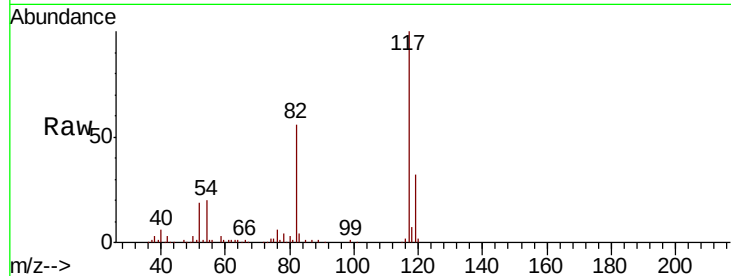




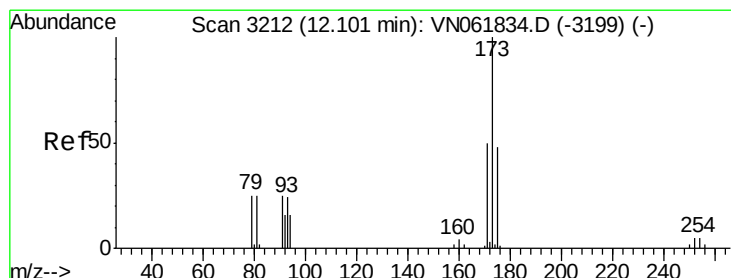
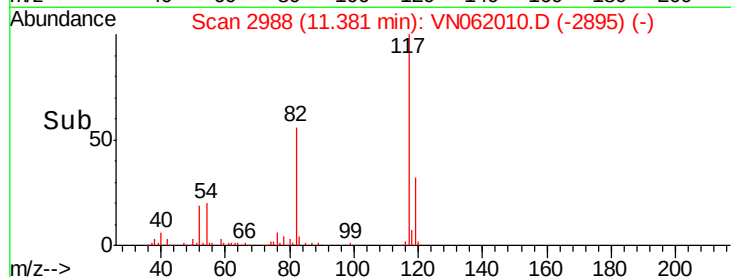
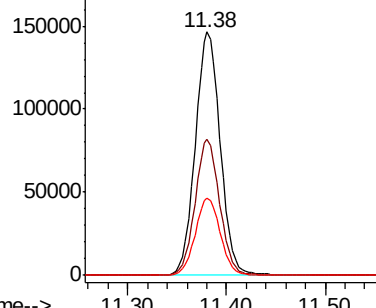
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062010.D
Acq: 22 Jun 2020 19:31

Instrument :
MSVOA_N
ClientSampleId :
RE139D2-20200616

Tot Ion:117 Resp: 259937
Ion Ratio Lower Upper
117 100
82 56.1 42.6 64.0
119 31.7 24.7 37.1

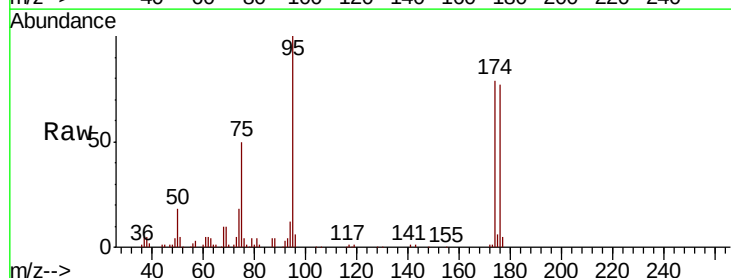


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

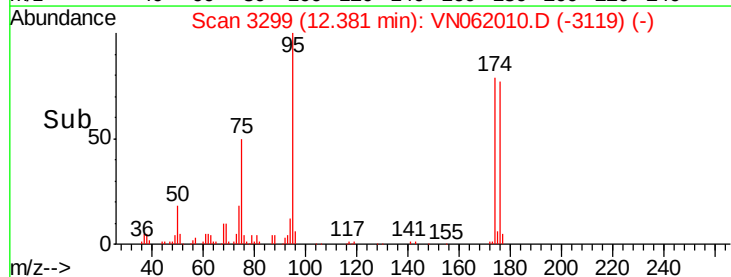
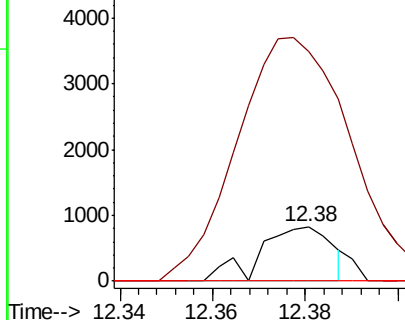


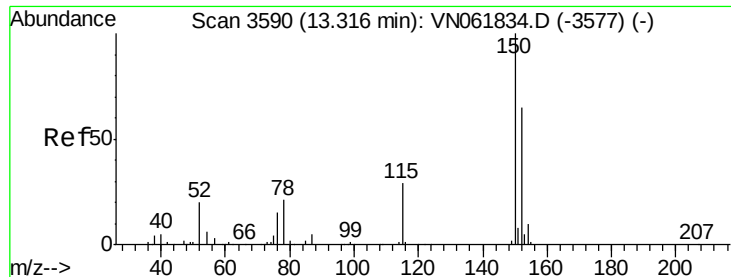
#71
Bromoform
Concen: 0.643 ug/l
RT: 12.38 min Scan# 3299
Delta R.T. 0.28 min
Lab File: VN062010.D
Acq: 22 Jun 2020 19:31

Tgt Ion:173 Resp: 897
Ion Ratio Lower Upper
173 100
175 587.0 23.9 71.7#
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# 3591

Delta R.T. 0.00 min

Lab File: VN062010.D

Acq: 22 Jun 2020 19:31

Instrument :

MSVOA_N

ClientSampleId :

RE139D2-20200616

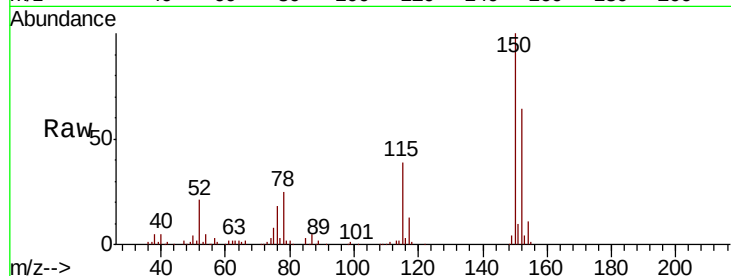
Tot Ion:152 Resp: 94240

Ion Ratio Lower Upper

152 100

115 60.2 29.1 87.3

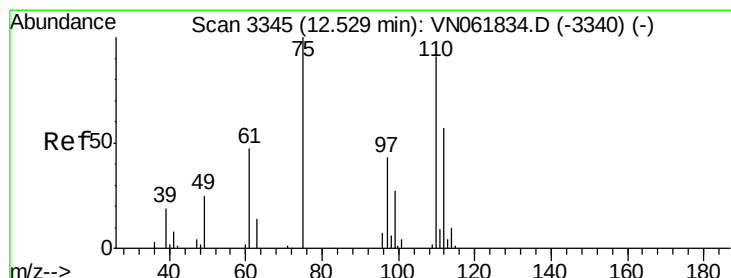
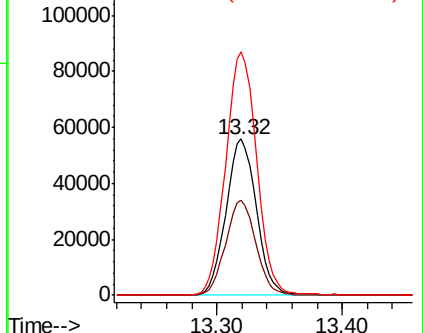
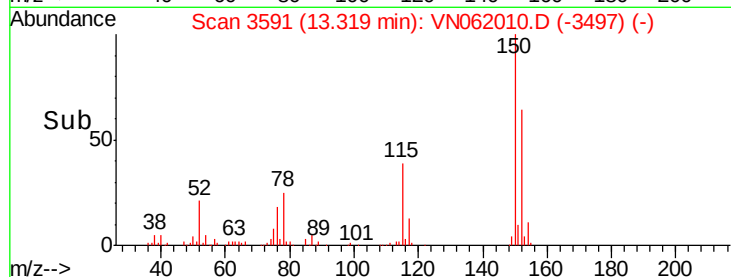
150 158.8 0.0 347.6



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: 30.196 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062010.D

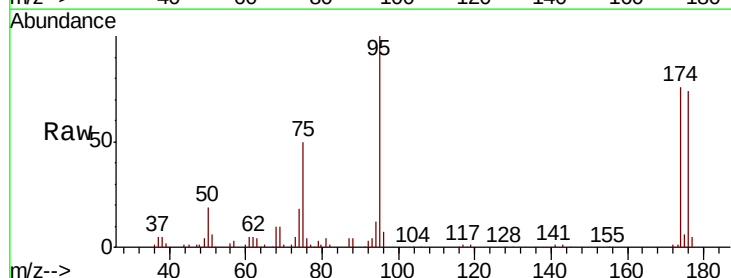
Acq: 22 Jun 2020 19:31

Tgt Ion: 75 Resp: 55868

Ion Ratio Lower Upper

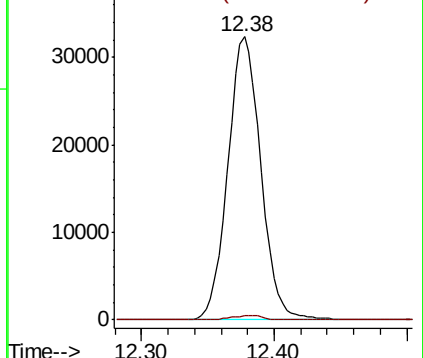
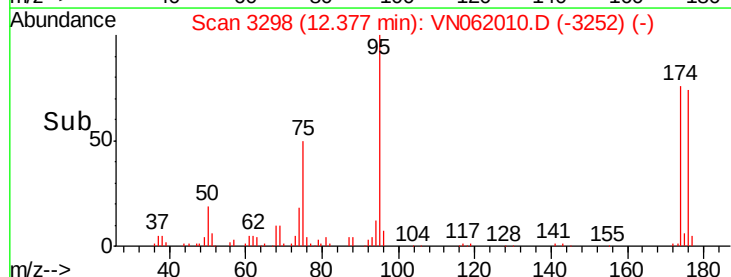
75 100

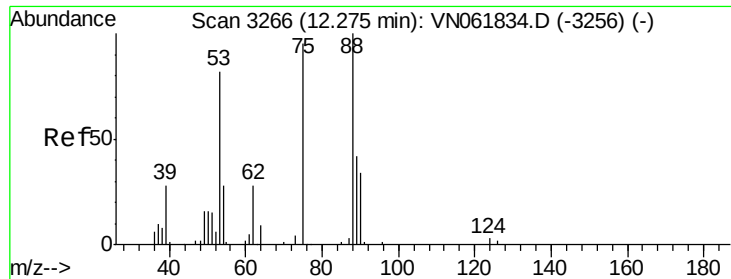
77 1.4 0.0 0.0#



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: 82.358 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062010.D

Acq: 22 Jun 2020 19:31

Instrument :

MSVOA_N

ClientSampleId :

RE139D2-20200616

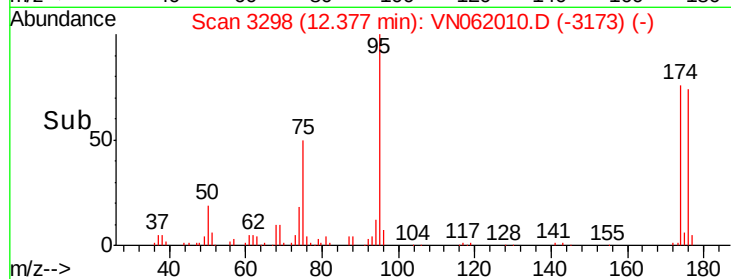
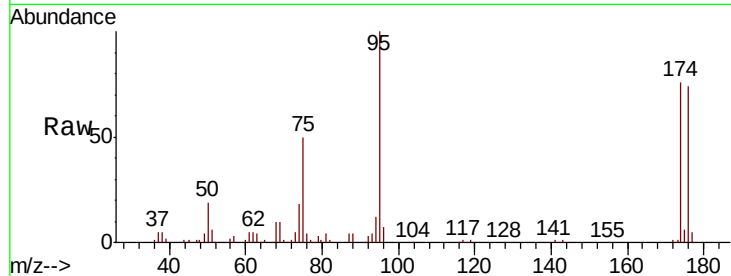
Tot Ion: 75 Resp: 55868

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

89 0.0 36.0 54.0#



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

