

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092520\
 Data File : VN063682.D
 Acq On : 25 Sep 2020 16:43
 Operator : JC/MD
 Sample : L4119-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP05-20200921

Quant Time: Sep 28 02:03:11 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	200819	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	379413	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	394732	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	166148	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	178435	52.20	ug/l	0.00
Spiked Amount			Recovery	=	104.40%	
35) Dibromofluoromethane	7.55	113	128080	48.76	ug/l	0.00
Spiked Amount			Recovery	=	97.52%	
50) Toluene-d8	10.06	98	495628	50.18	ug/l	0.00
Spiked Amount			Recovery	=	100.36%	
62) 4-Bromofluorobenzene	12.38	95	193499	53.44	ug/l	0.00
Spiked Amount			Recovery	=	106.88%	

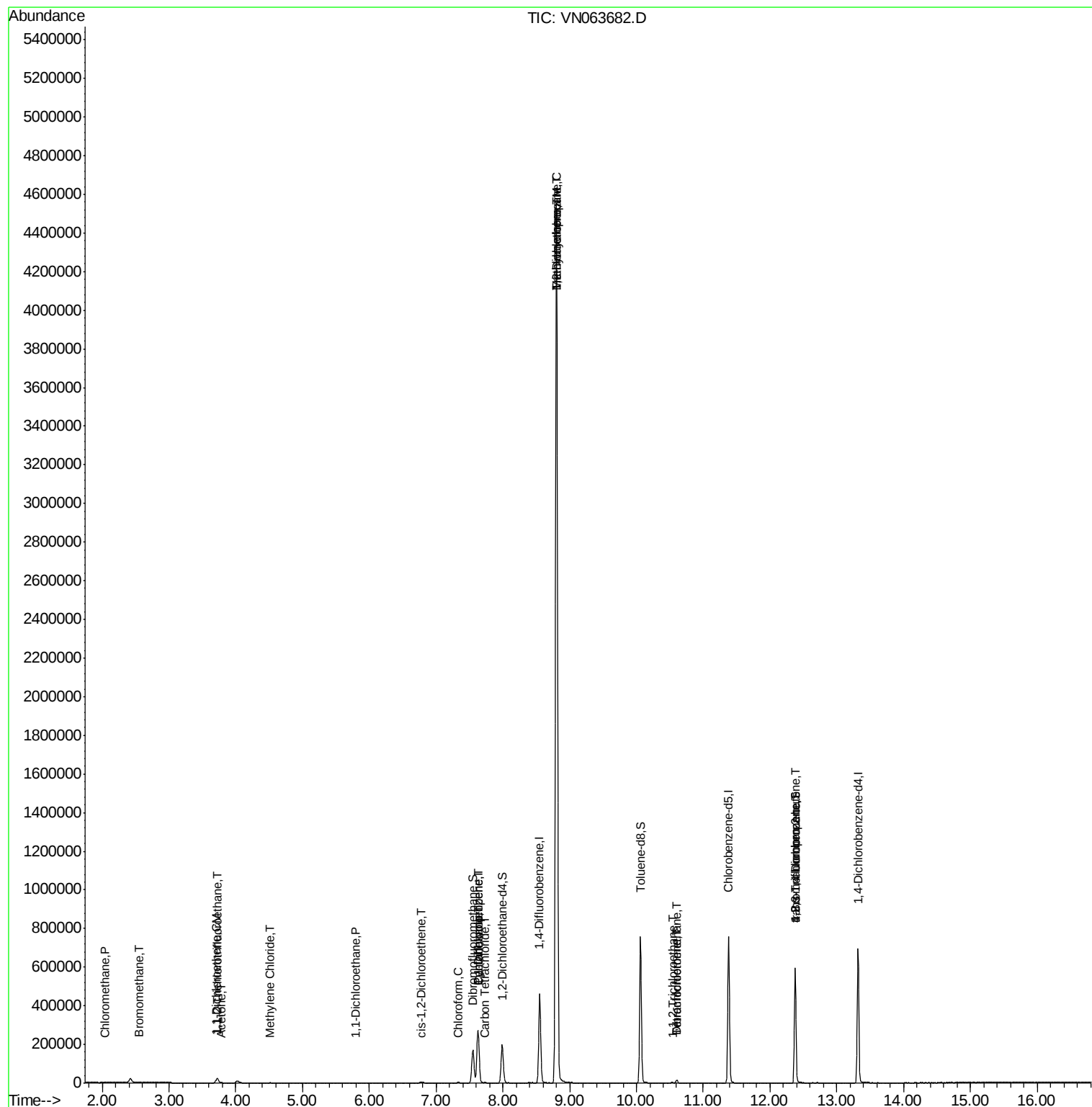
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	965	0.321	ug/l #	70
5) Bromomethane	2.55	94	409	0.258	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	3.72	101	13641	6.097	ug/l	99
12) 1,1-Dichloroethene	3.70	96	696	0.307	ug/l #	91
16) Acetone	3.79	43	2270	2.066	ug/l #	47
20) Methylene Chloride	4.50	84	794	0.285	ug/l #	76
24) 1,1-Dichloroethane	5.79	63	1456	0.292	ug/l #	84
27) cis-1,2-Dichloroethene	6.79	96	2938	1.034	ug/l #	1
30) Chloroform	7.33	83	2723	0.544	ug/l	100
31) Cyclohexane	7.62	56	5855	1.240	ug/l #	43
36) 1,1-Dichloropropene	7.62	75	19511	4.827	ug/l #	51
38) Carbon Tetrachloride	7.73	117	1061	0.257	ug/l #	62
39) Methylcyclohexane	8.80	83	21218	4.837	ug/l #	1
44) Trichloroethene	8.80	130	1511249	539.988	ug/l	100
45) 1,2-Dichloropropane	8.80	63	4841	1.540	ug/l #	1
55) 1,1,2-Trichloroethane	10.54	97	799	0.290	ug/l #	66
60) Dibromochloromethane	10.60	129	3078	0.989	ug/l #	10
64) Tetrachloroethene	10.60	164	2909	1.082	ug/l #	81
76) 1,2,3-Trichloropropane	12.38	75	111815	27.190	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	111815	74.544	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: VN063682.D

Acq: 25 Sep 2020 16:43

Instrument :

MSVOA_N

ClientSampleId :

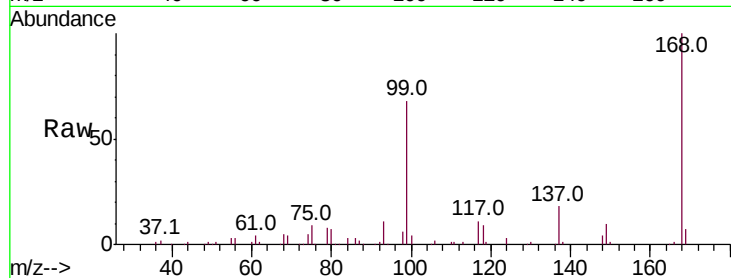
DUP05-20200921

Tot Ion:168 Resp: 200819

Ion Ratio Lower Upper

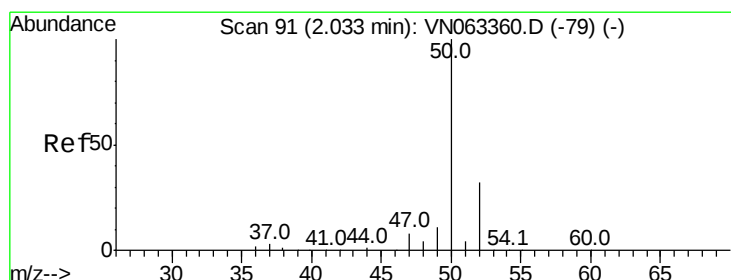
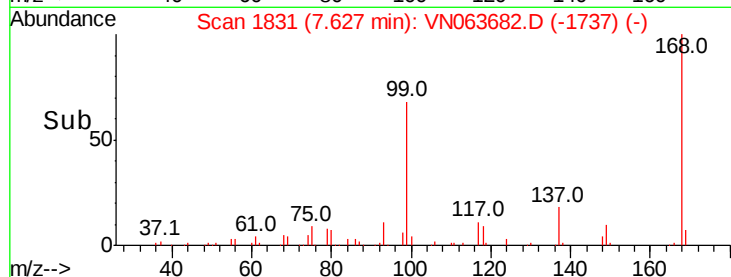
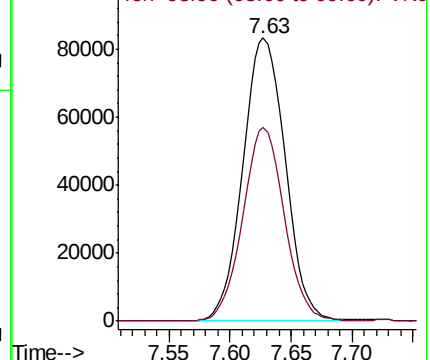
168 100

99 68.4 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: 0.321 ug/l

RT: 2.04 min Scan# 93

Delta R.T. 0.01 min

Lab File: VN063682.D

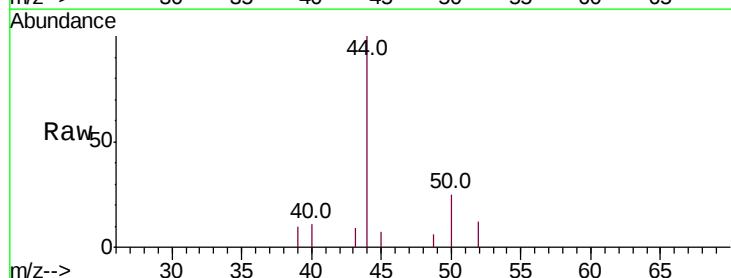
Acq: 25 Sep 2020 16:43

Tgt Ion: 50 Resp: 965

Ion Ratio Lower Upper

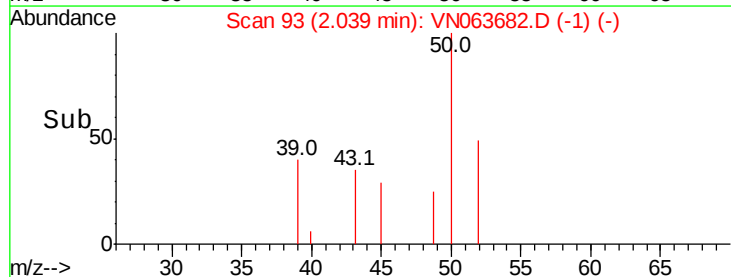
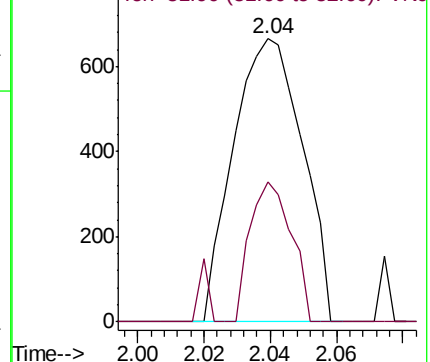
50 100

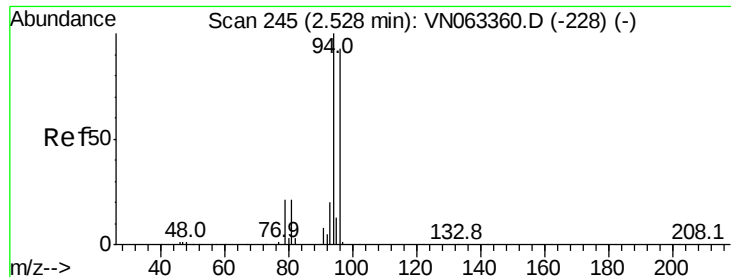
52 49.3 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#5

Bromomethane

Concen: 0.258 ug/l

RT: 2.55 min Scan# 252

Delta R.T. 0.02 min

Lab File: VN063682.D

Acq: 25 Sep 2020 16:43

Instrument :

MSVOA_N

ClientSampleId :

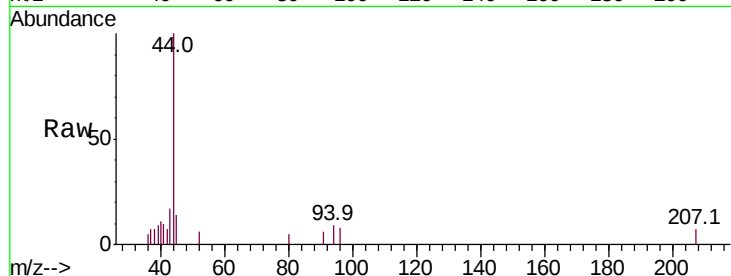
DUP05-20200921

Tot Ion: 94 Resp: 409

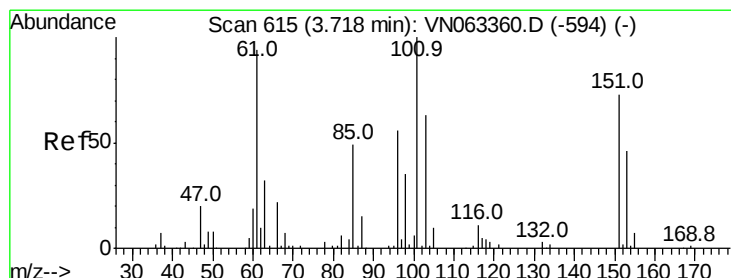
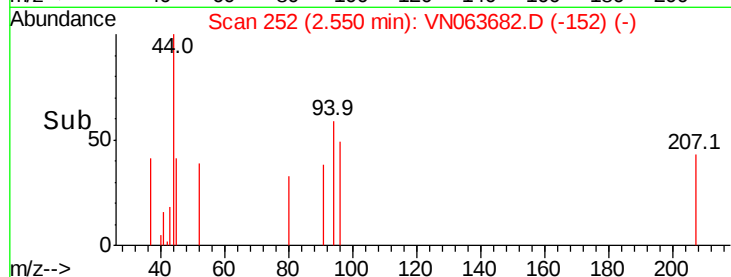
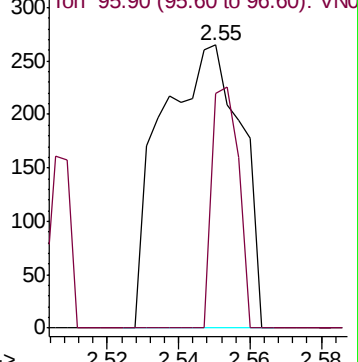
Ion Ratio Lower Upper

94 100

96 83.0 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VN063360.D (-228) (-)



#9

1,1,2-Trichlorotrifluoroethane

Concen: 6.097 ug/l

RT: 3.72 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN063682.D

Acq: 25 Sep 2020 16:43

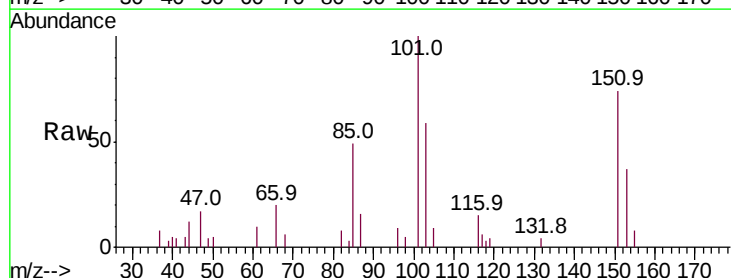
Tgt Ion: 101 Resp: 13641

Ion Ratio Lower Upper

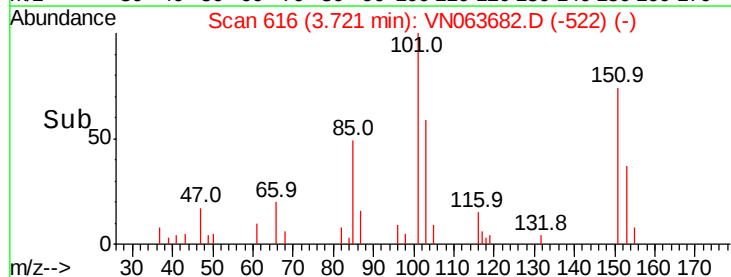
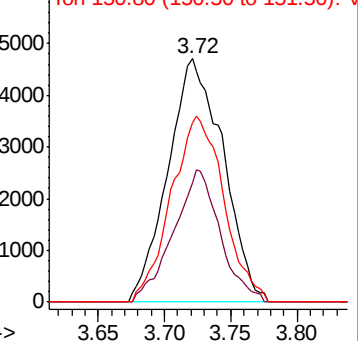
101 100

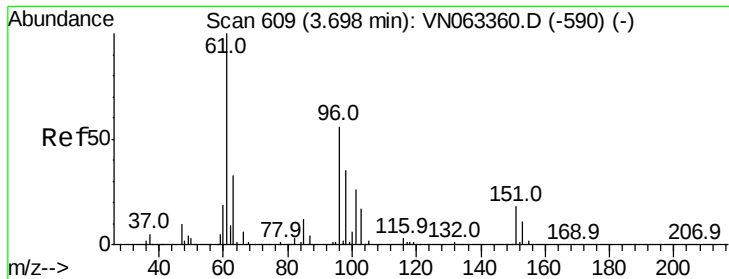
85 45.9 37.7 56.5

151 72.8 57.7 86.5



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





#12

1,1-Dichloroethene

Concen: 0.307 ug/l

RT: 3.70 min Scan# 609

Delta R.T. -0.00 min

Lab File: VN063682.D

Acq: 25 Sep 2020 16:43

Instrument :

MSVOA_N

ClientSampleId :

DUP05-20200921

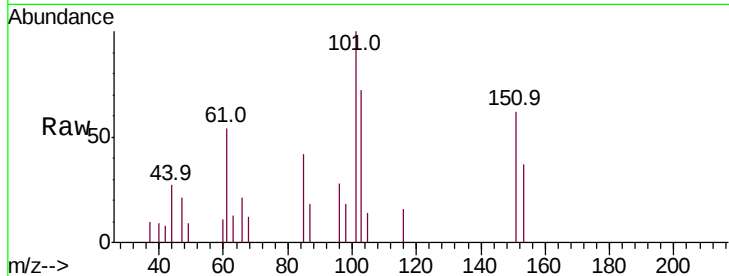
Tot Ion: 96 Resp: 696

Ion Ratio Lower Upper

96 100

61 187.9 143.4 215.2

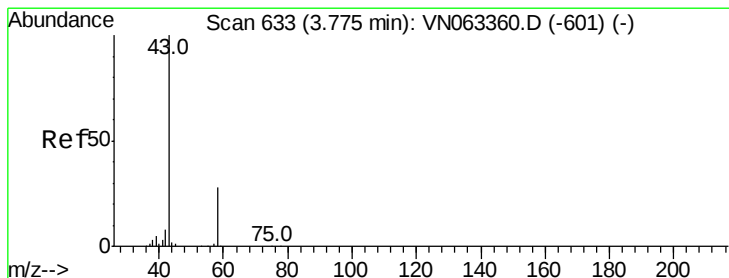
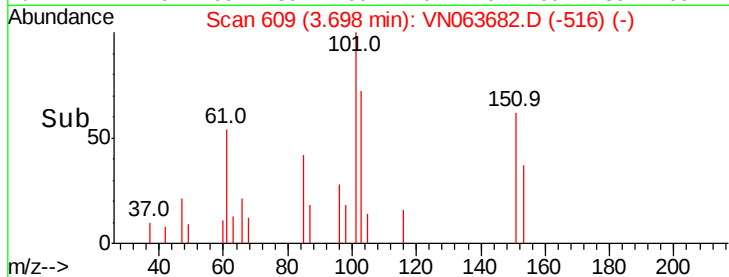
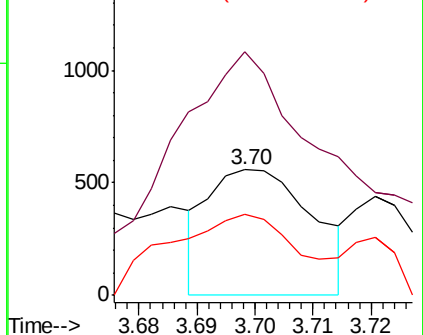
98 76.9 50.6 76.0#



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



#16

Acetone

Concen: 2.066 ug/l

RT: 3.79 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN063682.D

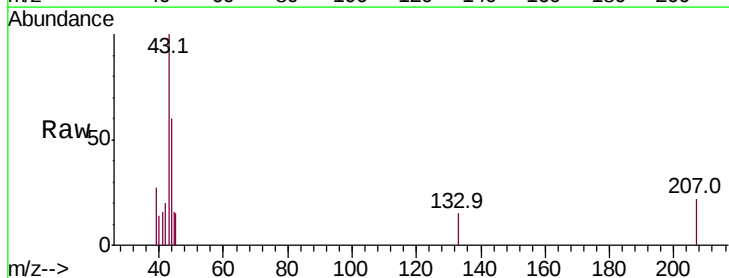
Acq: 25 Sep 2020 16:43

Tgt Ion: 43 Resp: 2270

Ion Ratio Lower Upper

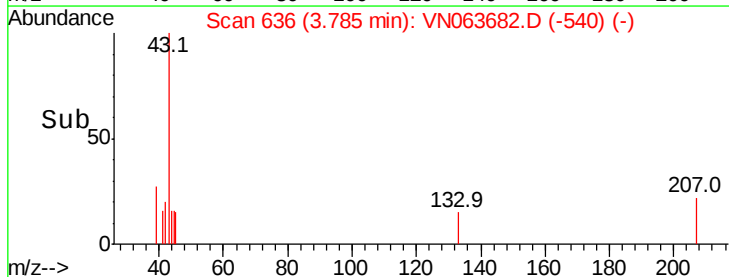
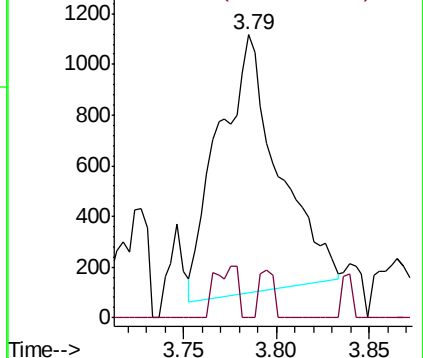
43 100

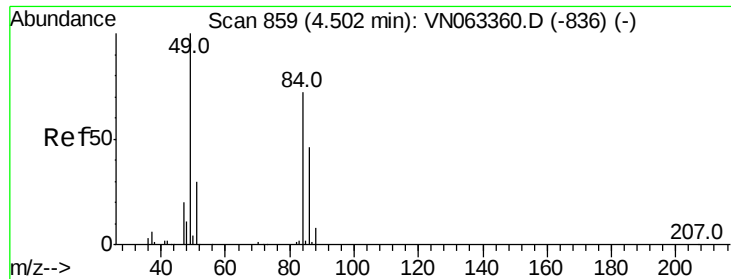
58 0.0 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#20

Methylene Chloride

Concen: 0.285 ug/l

RT: 4.50 min Scan# 859

Delta R.T. -0.00 min

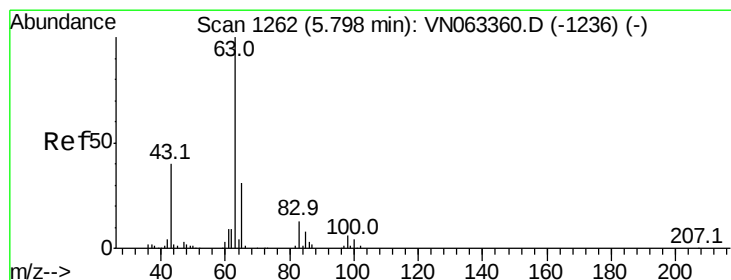
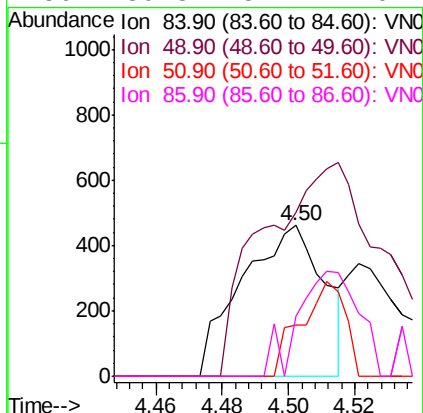
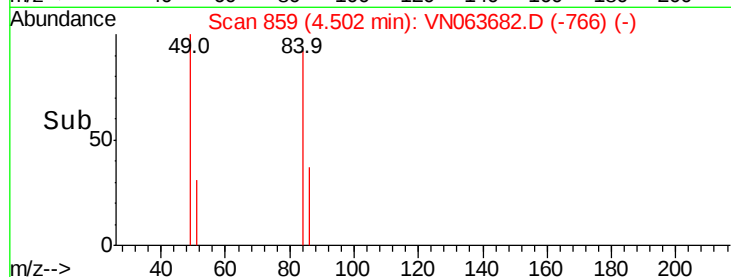
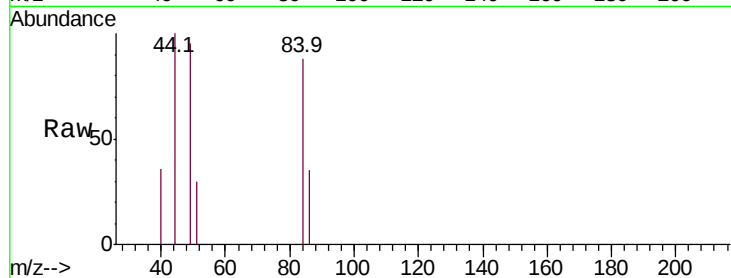
Lab File: VN063682.D

Acq: 25 Sep 2020 16:43

Instrument :
MSVOA_N
ClientSampleId :
DUP05-20200921

Tot Ion: 84 Resp: 794

Ion	Ratio	Lower	Upper
84	100		
49	108.4	110.7	166.1#
51	33.5	32.9	49.3
86	39.8	51.1	76.7#



#24

1,1-Dichloroethane

Concen: 0.292 ug/l

RT: 5.79 min Scan# 1260

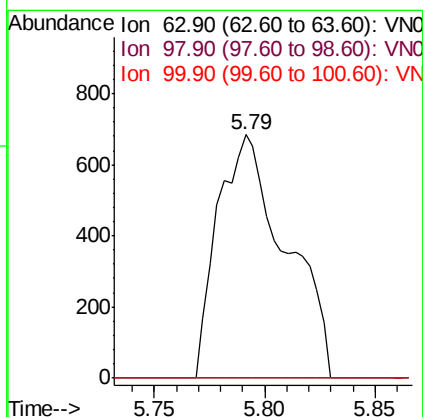
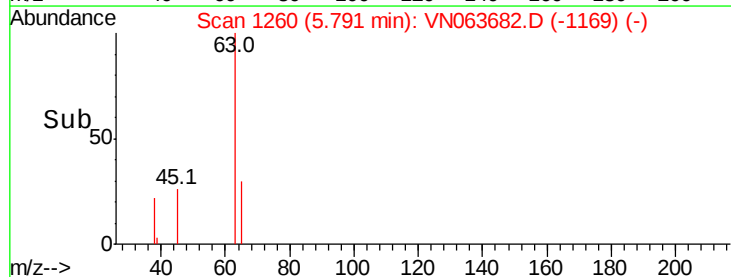
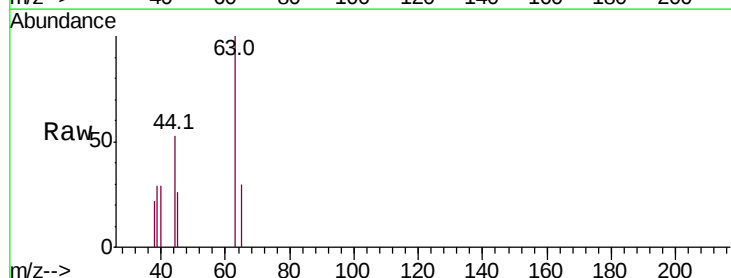
Delta R.T. -0.01 min

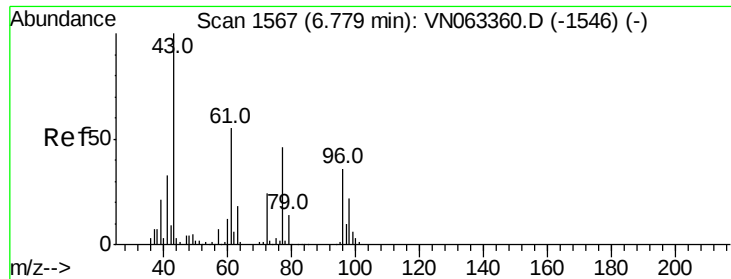
Lab File: VN063682.D

Acq: 25 Sep 2020 16:43

Tgt Ion: 63 Resp: 1456

Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.9	8.8#
100	0.0	2.1	6.3#

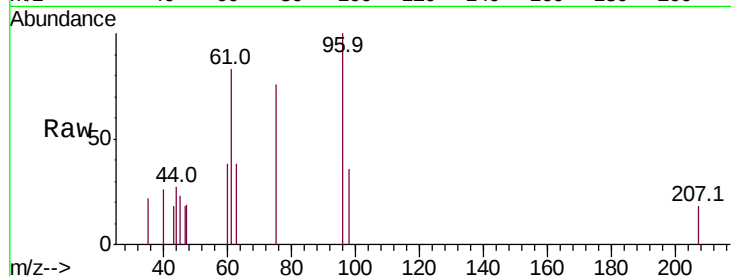




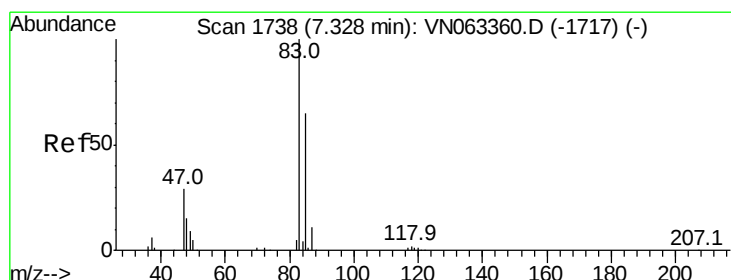
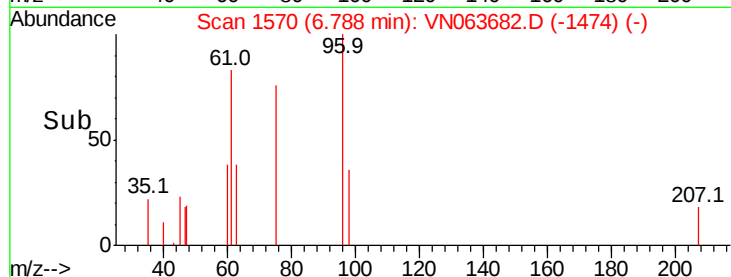
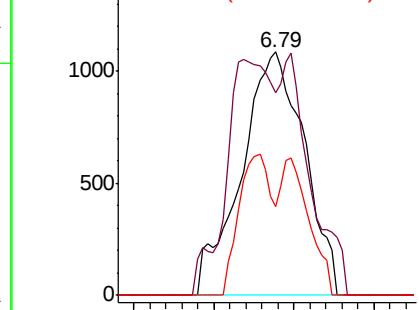
#27
 cis-1,2-Dichloroethene
 Concen: 1.034 ug/l
 RT: 6.79 min Scan# 1570
 Delta R.T. 0.01 min
 Lab File: VN063682.D
 Acq: 25 Sep 2020 16:43

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP05-20200921

Tot Ion: 96 Resp: 2938
 Ion Ratio Lower Upper
 96 100
 61 0.0 0.0 319.6
 98 26.0 0.0 127.8

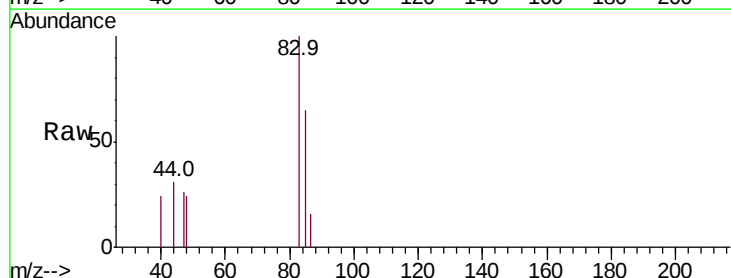


Abundance Ion 95.90 (95.60 to 96.60): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0

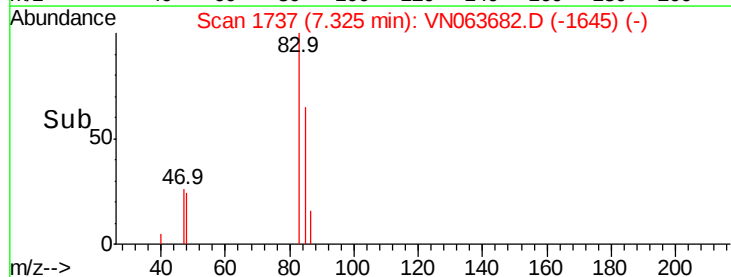
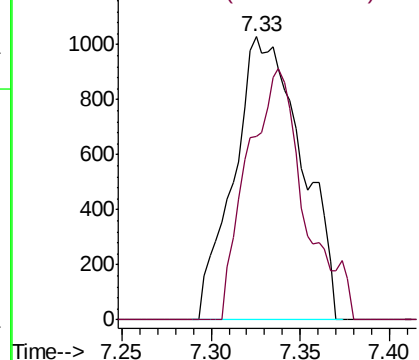


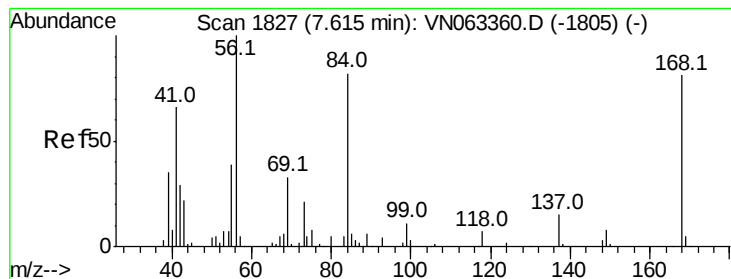
#30
 Chloroform
 Concen: 0.544 ug/l
 RT: 7.33 min Scan# 1737
 Delta R.T. -0.00 min
 Lab File: VN063682.D
 Acq: 25 Sep 2020 16:43

Tgt Ion: 83 Resp: 2723
 Ion Ratio Lower Upper
 83 100
 85 64.9 52.1 78.1



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





#31

Cyclohexane

Concen: 1.240 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063682.D

Acq: 25 Sep 2020 16:43

Instrument :

MSVOA_N

ClientSampleId :

DUP05-20200921

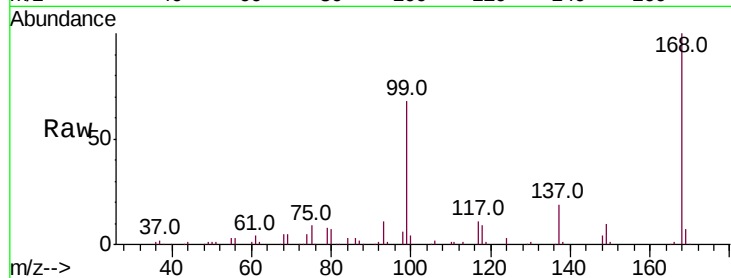
Tot Ion: 56 Resp: 5855

Ion Ratio Lower Upper

56 100

69 131.9 26.1 39.1#

84 90.5 65.4 98.2

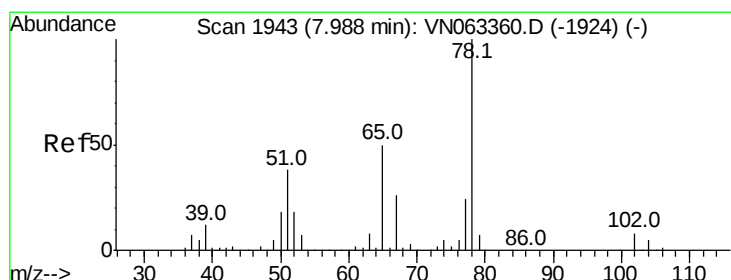
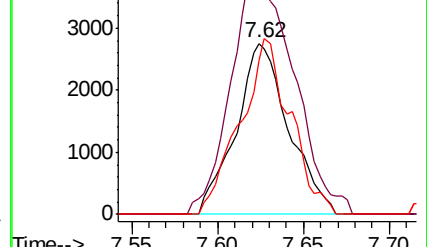
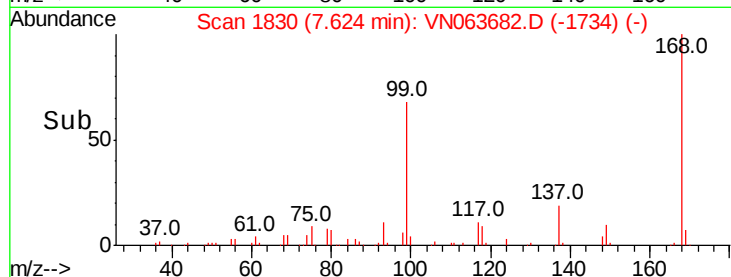


Abundance Ion 56.00 (55.70 to 56.70): VN063360.D (-1805) (-)

Ion 69.00 (68.70 to 69.70): VN063360.D (-1805) (-)

Ion 84.00 (83.70 to 84.70): VN063360.D (-1805) (-)

Time-->



#33

1,2-Dichloroethane-d4

Concen: 52.197 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063682.D

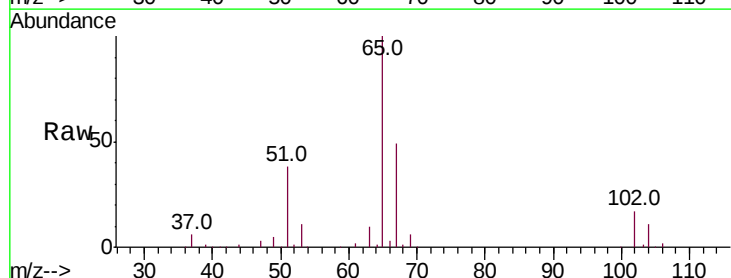
Acq: 25 Sep 2020 16:43

Tgt Ion: 65 Resp: 178435

Ion Ratio Lower Upper

65 100

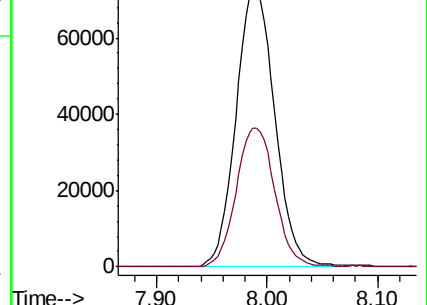
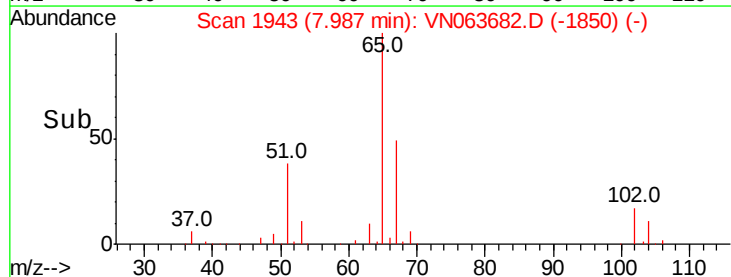
67 49.7 0.0 104.2

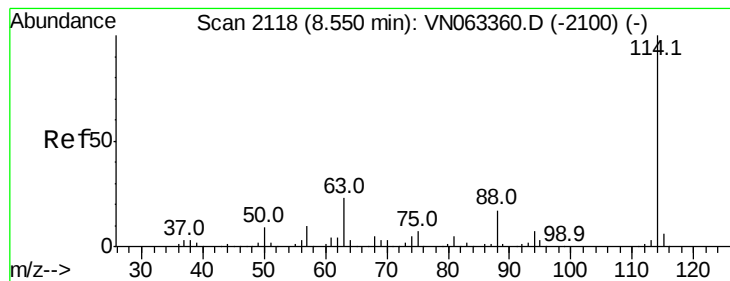


Abundance Ion 64.90 (64.60 to 65.60): VN063360.D (-1924) (-)

Ion 66.90 (66.60 to 67.60): VN063360.D (-1924) (-)

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063682.D

Acq: 25 Sep 2020 16:43

Instrument :

MSVOA_N

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DUP05-20200921

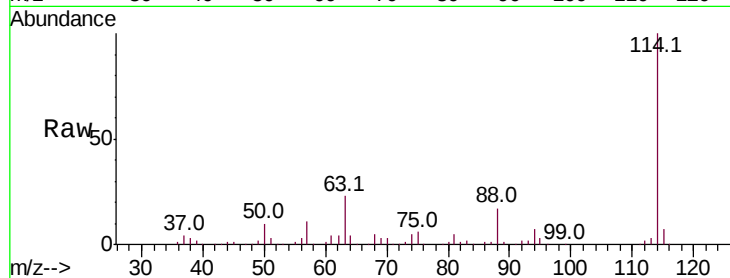
Tot Ion:114 Resp: 379413

Ion Ratio Lower Upper

114 100

63 23.0 0.0 46.4

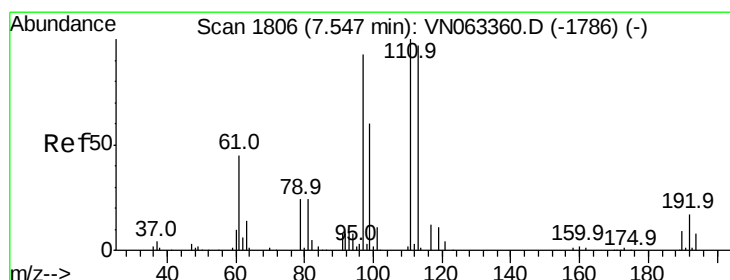
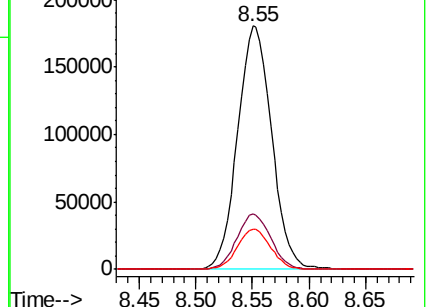
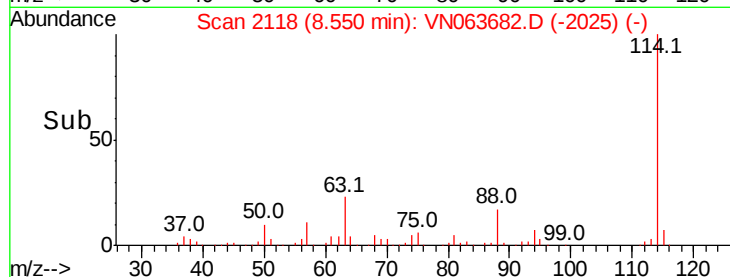
88 16.5 0.0 33.2



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: 48.763 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063682.D

Acq: 25 Sep 2020 16:43

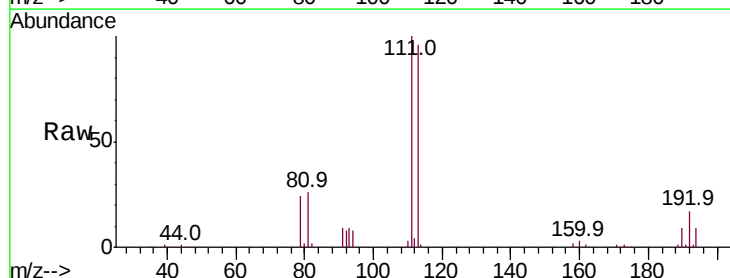
Tgt Ion:113 Resp: 128080

Ion Ratio Lower Upper

113 100

111 101.2 82.9 124.3

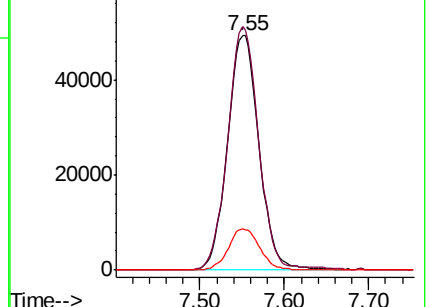
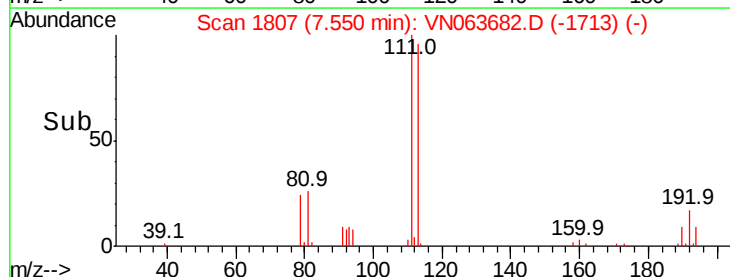
192 17.5 13.9 20.9

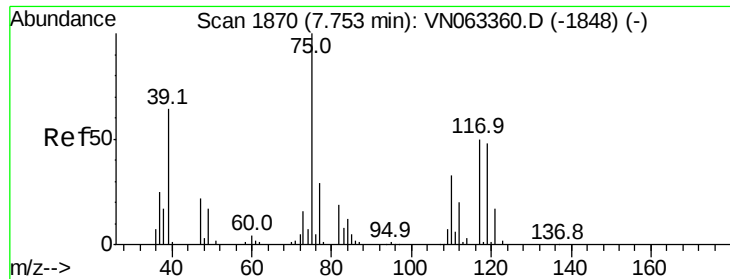


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.827 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. -0.13 min

Lab File: VN063682.D

Acq: 25 Sep 2020 16:43

Instrument :

MSVOA_N

ClientSampleId :

DUP05-20200921

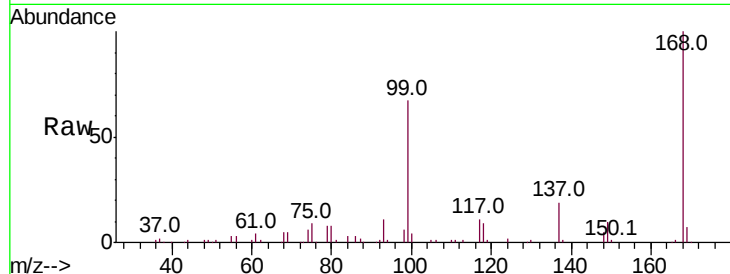
Tot Ion: 75 Resp: 19511

Ion Ratio Lower Upper

75 100

110 8.7 16.5 49.5#

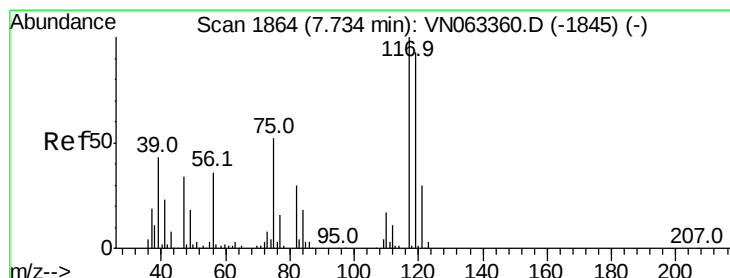
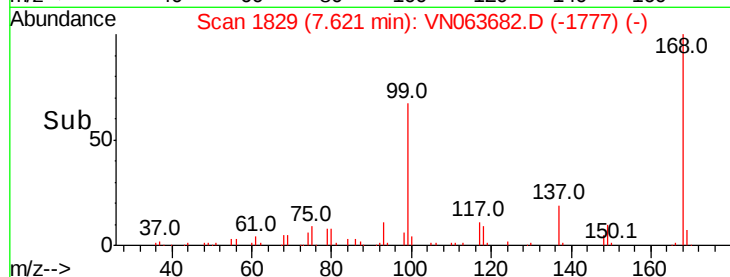
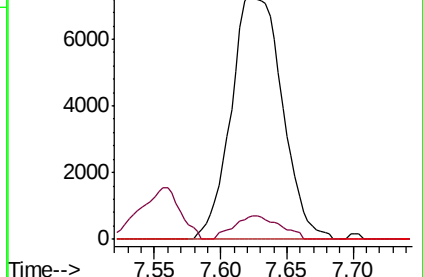
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VN063360.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN063360.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN063360.D (-1848) (-)



#38

Carbon Tetrachloride

Concen: 0.257 ug/l

RT: 7.73 min Scan# 1864

Delta R.T. -0.00 min

Lab File: VN063682.D

Acq: 25 Sep 2020 16:43

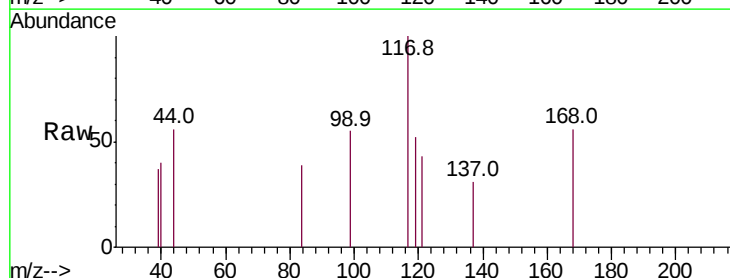
Tgt Ion: 117 Resp: 1061

Ion Ratio Lower Upper

117 100

119 51.7 74.5 111.7#

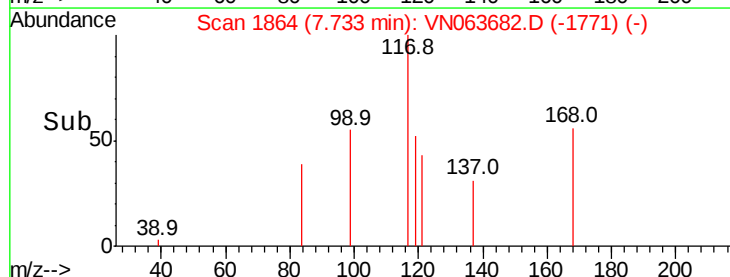
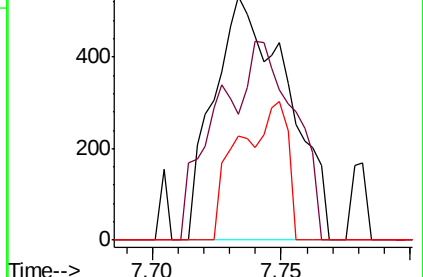
121 42.7 24.1 36.1#

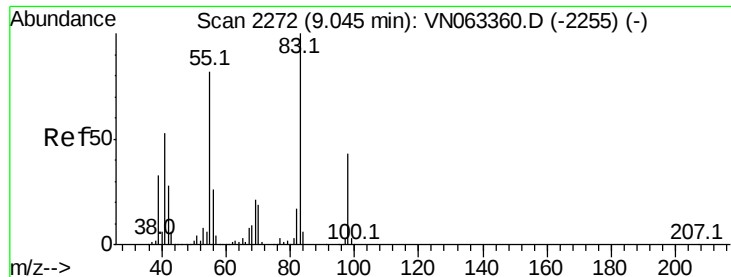


Abundance Ion 116.80 (116.50 to 117.50): VN063360.D (-1845) (-)

Ion 118.80 (118.50 to 119.50): VN063360.D (-1845) (-)

Ion 120.80 (120.50 to 121.50): VN063360.D (-1845) (-)

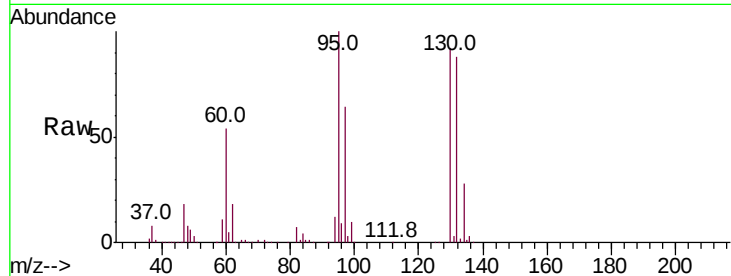




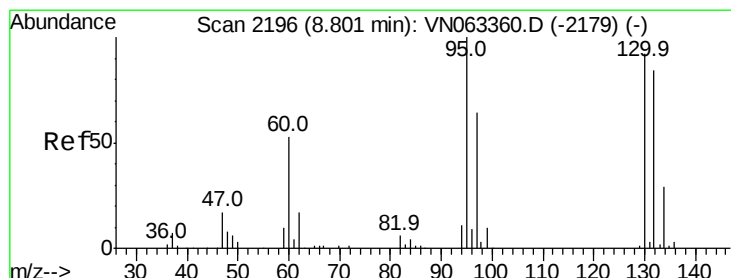
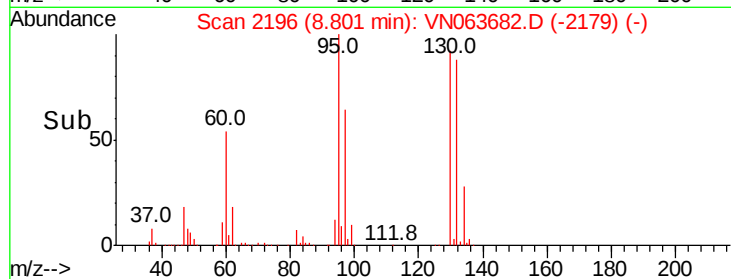
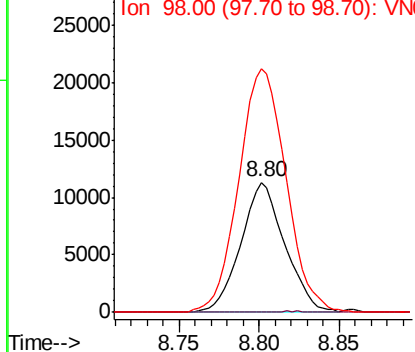
#39
Methylcyclohexane
Concen: 4.837 ug/l
RT: 8.80 min Scan# 2196
Delta R.T. -0.24 min
Lab File: VN063682.D
Acq: 25 Sep 2020 16:43

Instrument :
MSVOA_N
ClientSampleId :
DUP05-20200921

Tot Ion: 83 Resp: 21218
Ion Ratio Lower Upper
83 100
55 0.0 65.5 98.3#
98 187.5 34.2 51.4#

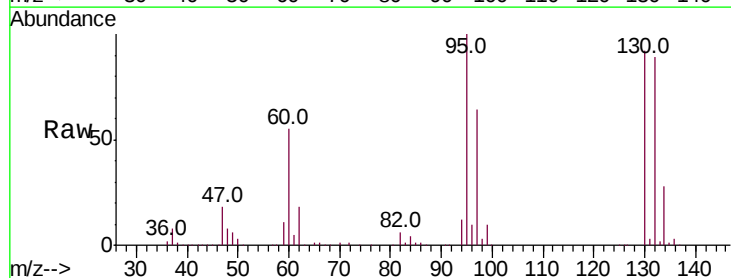


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

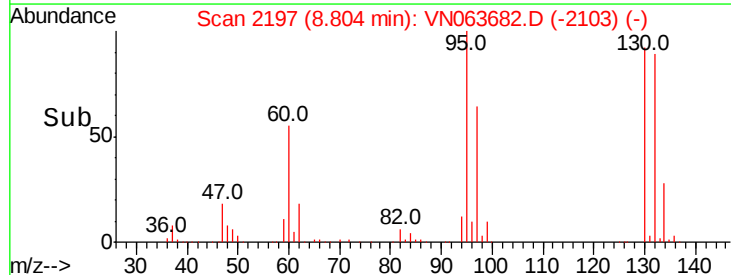
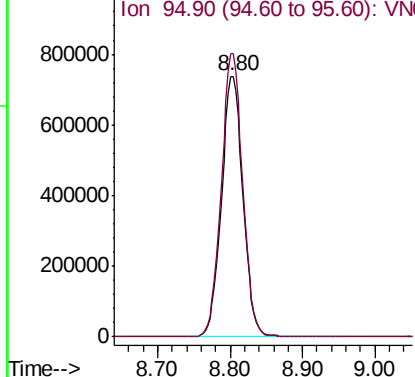


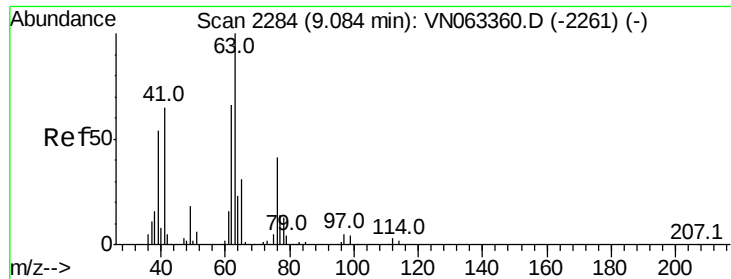
#44
Trichloroethene
Concen: 539.988 ug/l
RT: 8.80 min Scan# 2197
Delta R.T. 0.00 min
Lab File: VN063682.D
Acq: 25 Sep 2020 16:43

Tgt Ion:130 Resp: 1511249
Ion Ratio Lower Upper
130 100
95 108.5 0.0 217.4



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





#45

1,2-Dichloropropane

Concen: 1.540 ug/l

RT: 8.80 min Scan# 2197

Delta R.T. -0.28 min

Lab File: VN063682.D

Acq: 25 Sep 2020 16:43

Instrument :

MSVOA_N

ClientSampleId :

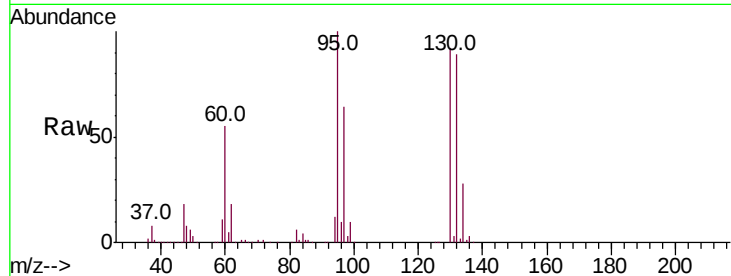
DUP05-20200921

Tot Ion: 63 Resp: 4841

Ion Ratio Lower Upper

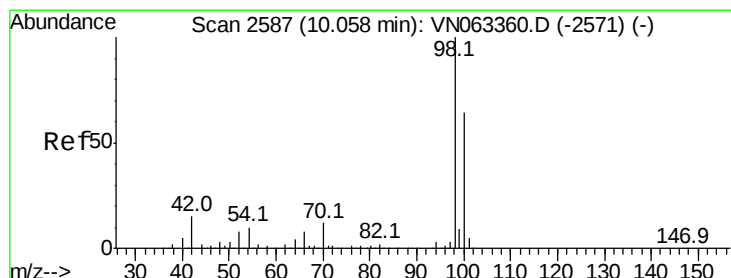
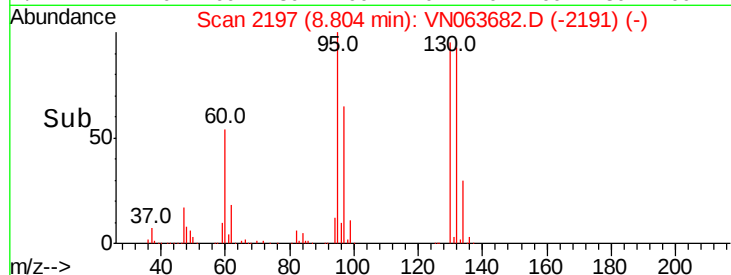
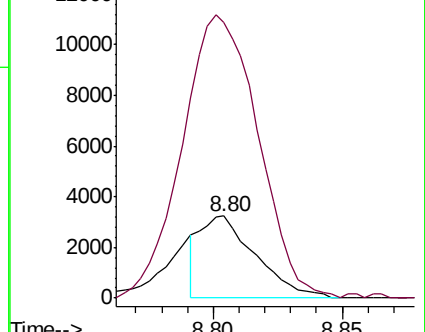
63 100

65 334.5 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#50

Toluene-d8

Concen: 50.183 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063682.D

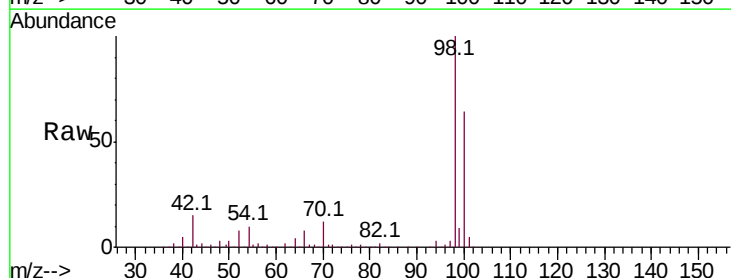
Acq: 25 Sep 2020 16:43

Tgt Ion: 98 Resp: 495628

Ion Ratio Lower Upper

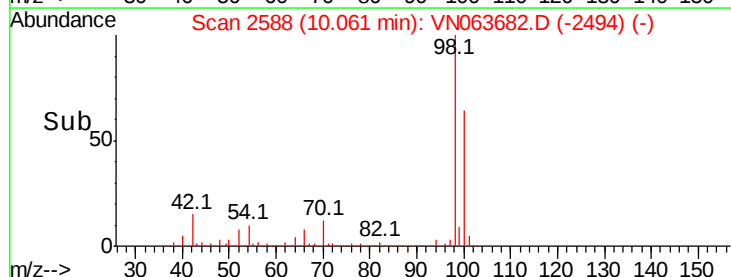
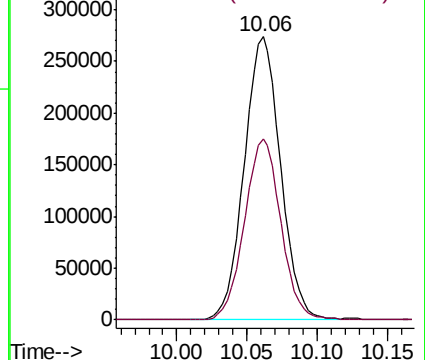
98 100

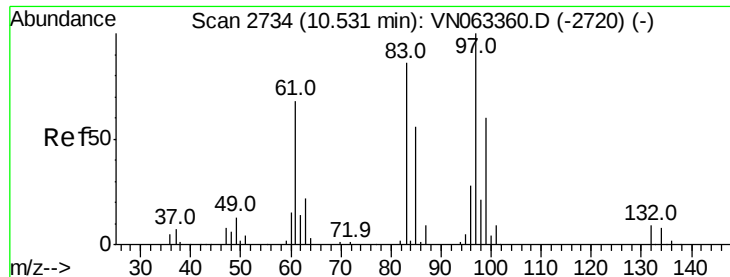
100 64.1 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

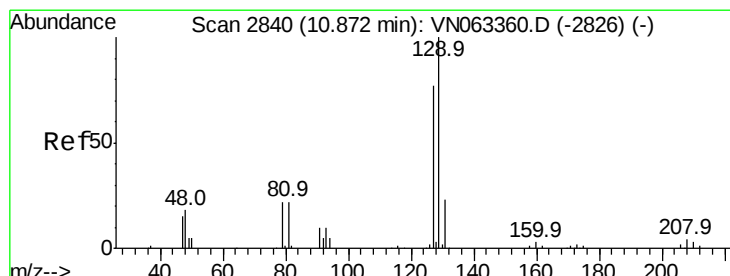
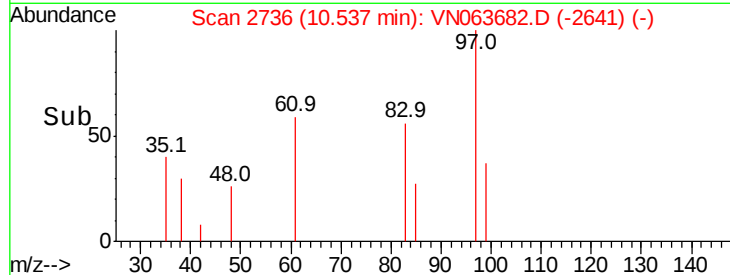
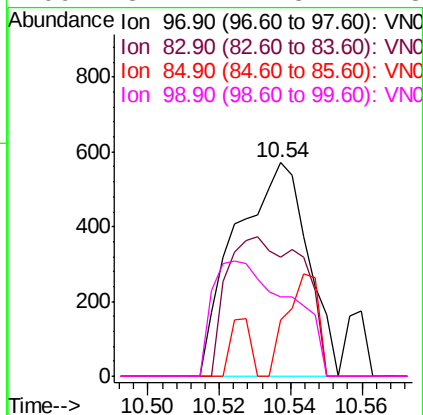
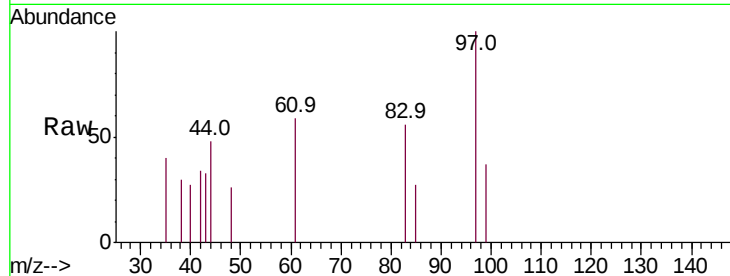




#55
 1,1,2-Trichloroethane
 Concen: 0.290 ug/l
 RT: 10.54 min Scan# 2736
 Delta R.T. 0.01 min
 Lab File: VN063682.D
 Acq: 25 Sep 2020 16:43

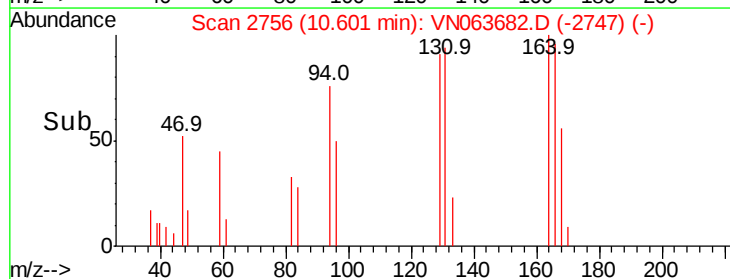
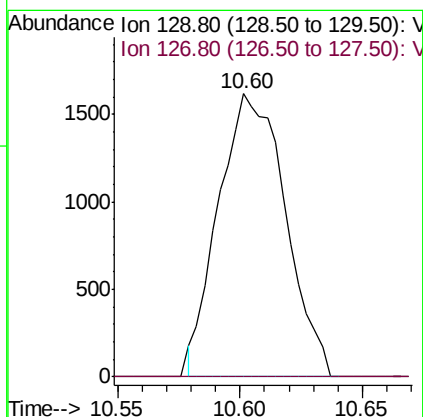
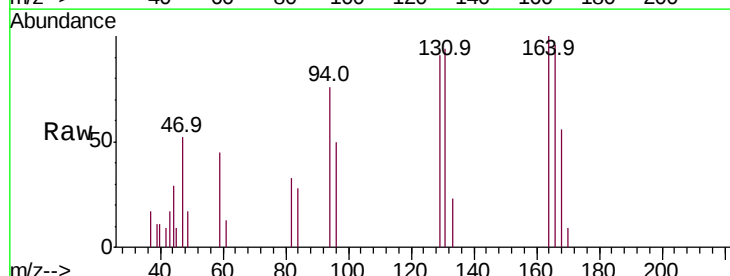
Instrument :
 MSVOA_N
 ClientSampleId :
 DUP05-20200921

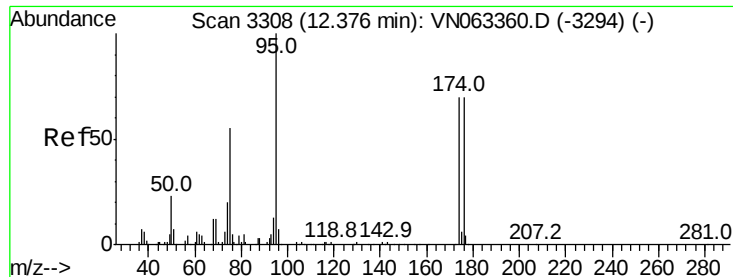
Tot Ion: 97 Resp: 799
 Ion Ratio Lower Upper
 97 100
 83 55.9 68.9 103.3#
 85 26.6 44.8 67.2#
 99 37.1 47.8 71.8#



#60
 Dibromochloromethane
 Concen: 0.989 ug/l
 RT: 10.60 min Scan# 2756
 Delta R.T. -0.27 min
 Lab File: VN063682.D
 Acq: 25 Sep 2020 16:43

Tgt Ion: 129 Resp: 3078
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.1 117.3#

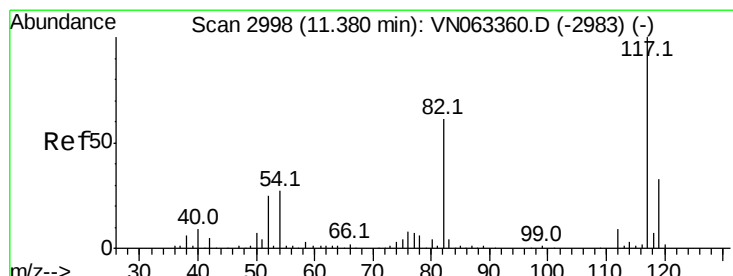
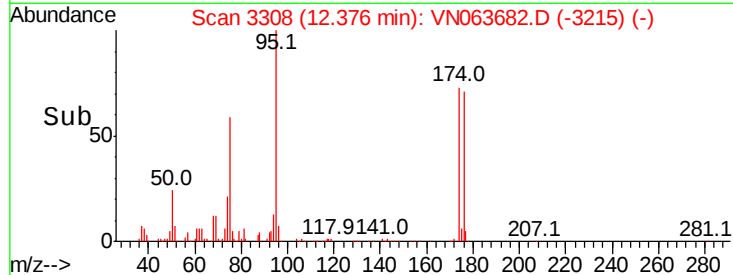
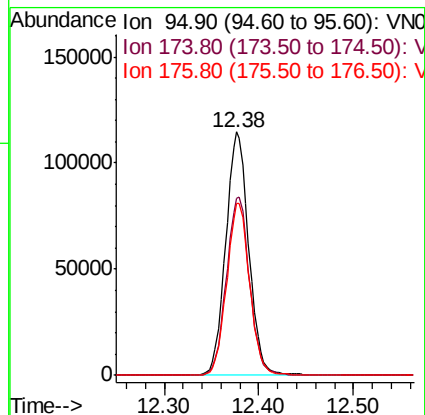
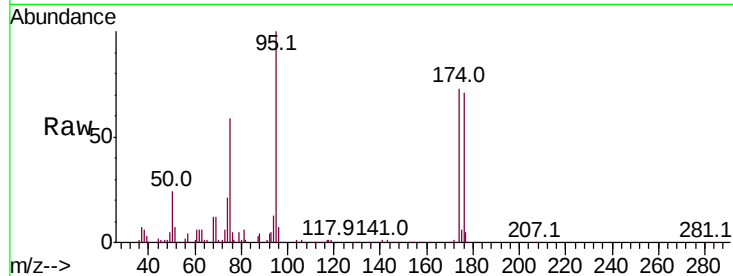




#62
4-Bromofluorobenzene
Concen: 53.445 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063682.D
Acq: 25 Sep 2020 16:43

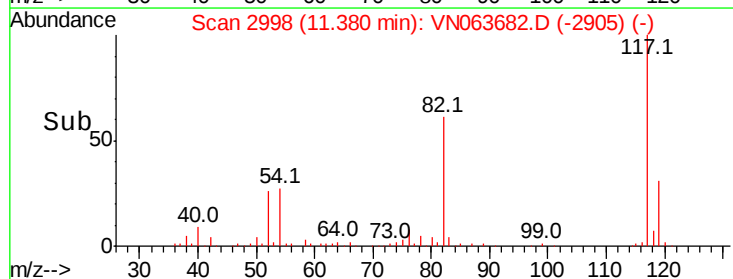
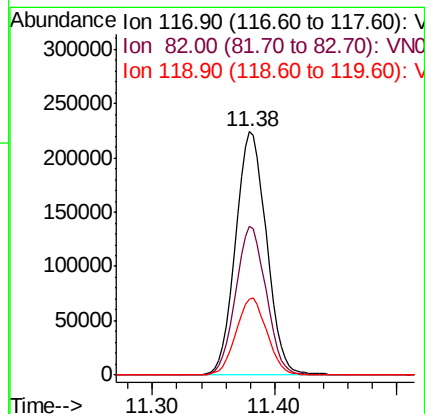
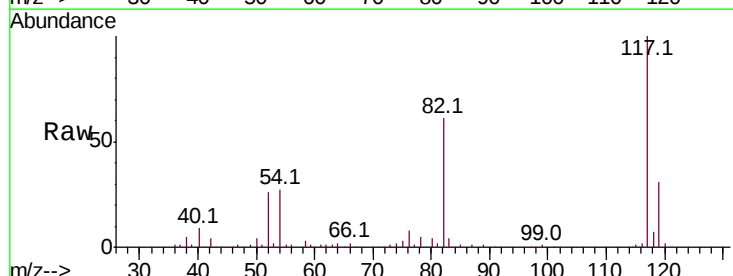
Instrument :
MSVOA_N
ClientSampleId :
DUP05-20200921

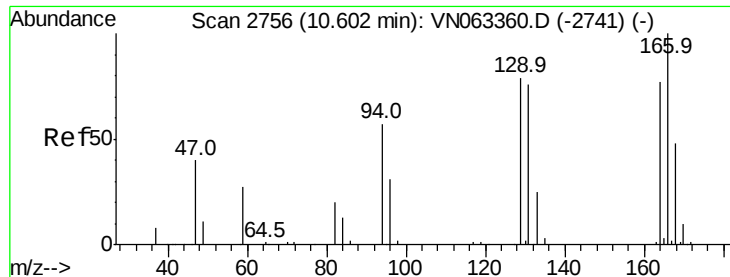
Tot Ion	95	Resp	193499
Ion Ratio	100		
Lower		0.0	140.8
Upper		0.0	137.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063682.D
Acq: 25 Sep 2020 16:43

Tgt Ion	117	Resp	394732
Ion Ratio	100		
Lower		49.2	73.8
Upper		26.2	39.4





#64

Tetrachloroethene

Concen: 1.082 ug/l

RT: 10.60 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VN063682.D

Acq: 25 Sep 2020 16:43

Instrument :

MSVOA_N

ClientSampleId :

DUP05-20200921

Tot Ion:164 Resp: 2909

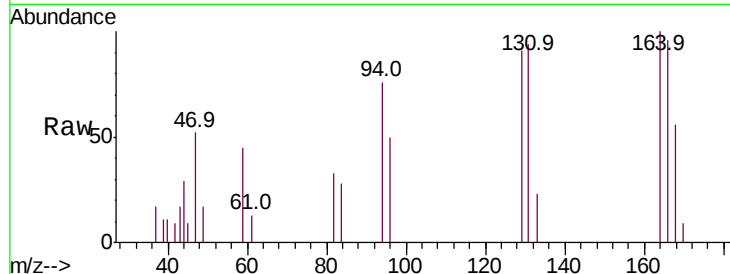
Ion Ratio Lower Upper

164 100

166 95.6 103.4 155.0#

129 90.6 81.8 122.6

131 85.7 78.2 117.4



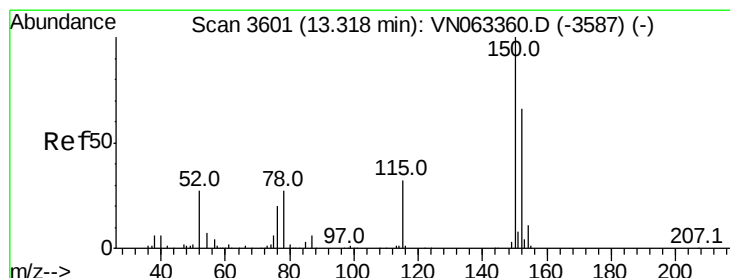
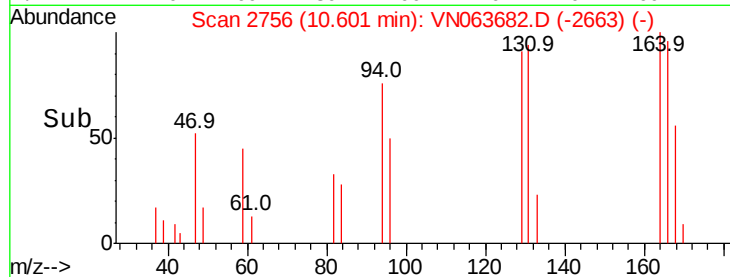
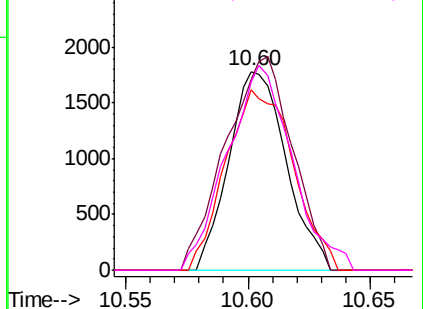
Abundance

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: VN063682.D

Acq: 25 Sep 2020 16:43

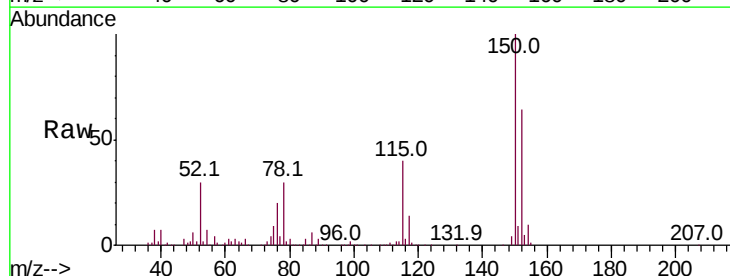
Tgt Ion:152 Resp: 166148

Ion Ratio Lower Upper

152 100

115 64.1 32.2 96.6

150 158.6 0.0 343.4

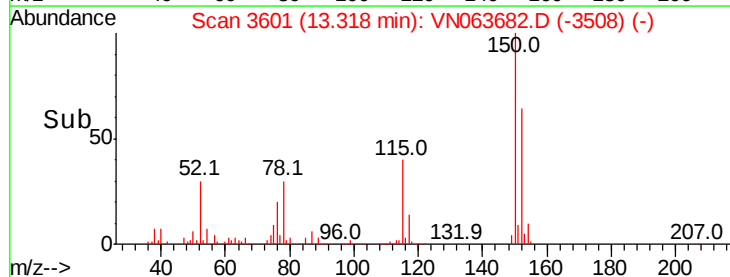
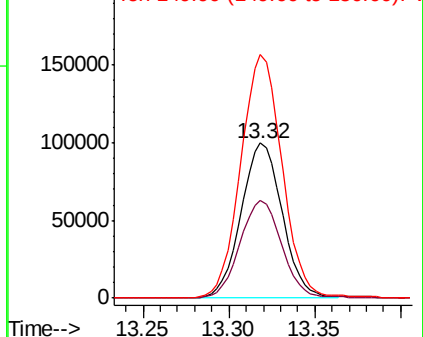


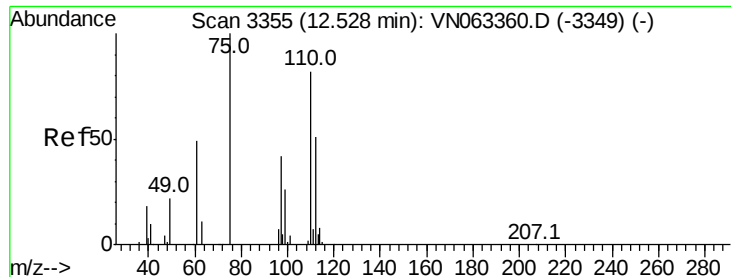
Abundance

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: 27.190 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063682.D

Acq: 25 Sep 2020 16:43

Instrument :

MSVOA_N

ClientSampleId :

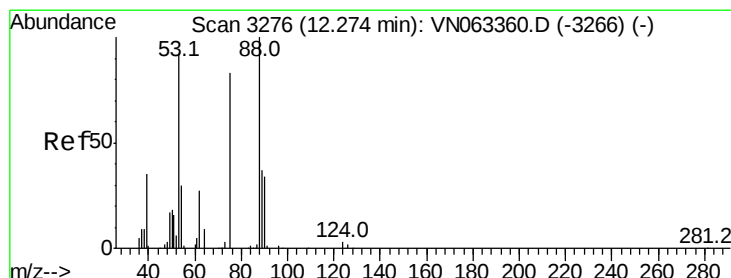
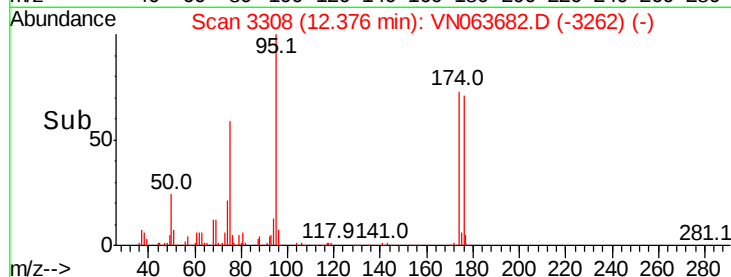
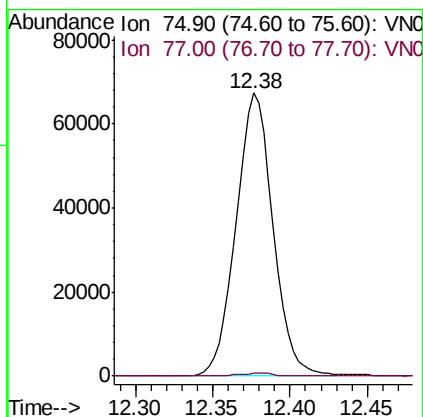
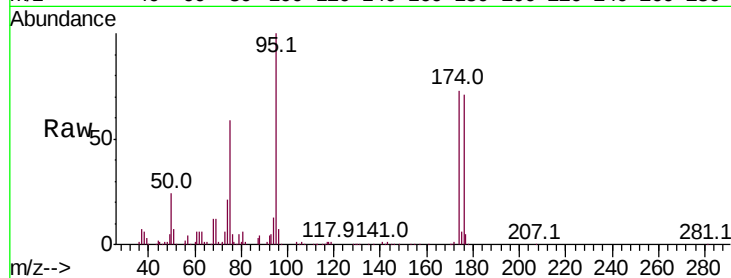
DUP05-20200921

Tot Ion: 75 Resp: 111815

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 74.544 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063682.D

Acq: 25 Sep 2020 16:43

Tgt Ion: 75 Resp: 111815

Ion Ratio Lower Upper

75 100

53 0.1 85.7 128.5#

89 0.0 38.0 57.0#

