

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073120\
 Data File : VN062720.D
 Acq On : 1 Aug 2020 6:00
 Operator : JC/MD
 Sample : L3518-38
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-11

Quant Time: Aug 01 06:58:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072120W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 21 18:48:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	146138	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	266722	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	270430	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	99554	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	126652	55.79	ug/l	0.00
Spiked Amount			Recovery	=	111.58%	
35) Dibromofluoromethane	7.55	113	88341	50.42	ug/l	0.00
Spiked Amount			Recovery	=	100.84%	
50) Toluene-d8	10.06	98	351761	50.32	ug/l	0.00
Spiked Amount			Recovery	=	100.64%	
62) 4-Bromofluorobenzene	12.38	95	130270	50.97	ug/l	0.00
Spiked Amount			Recovery	=	101.94%	

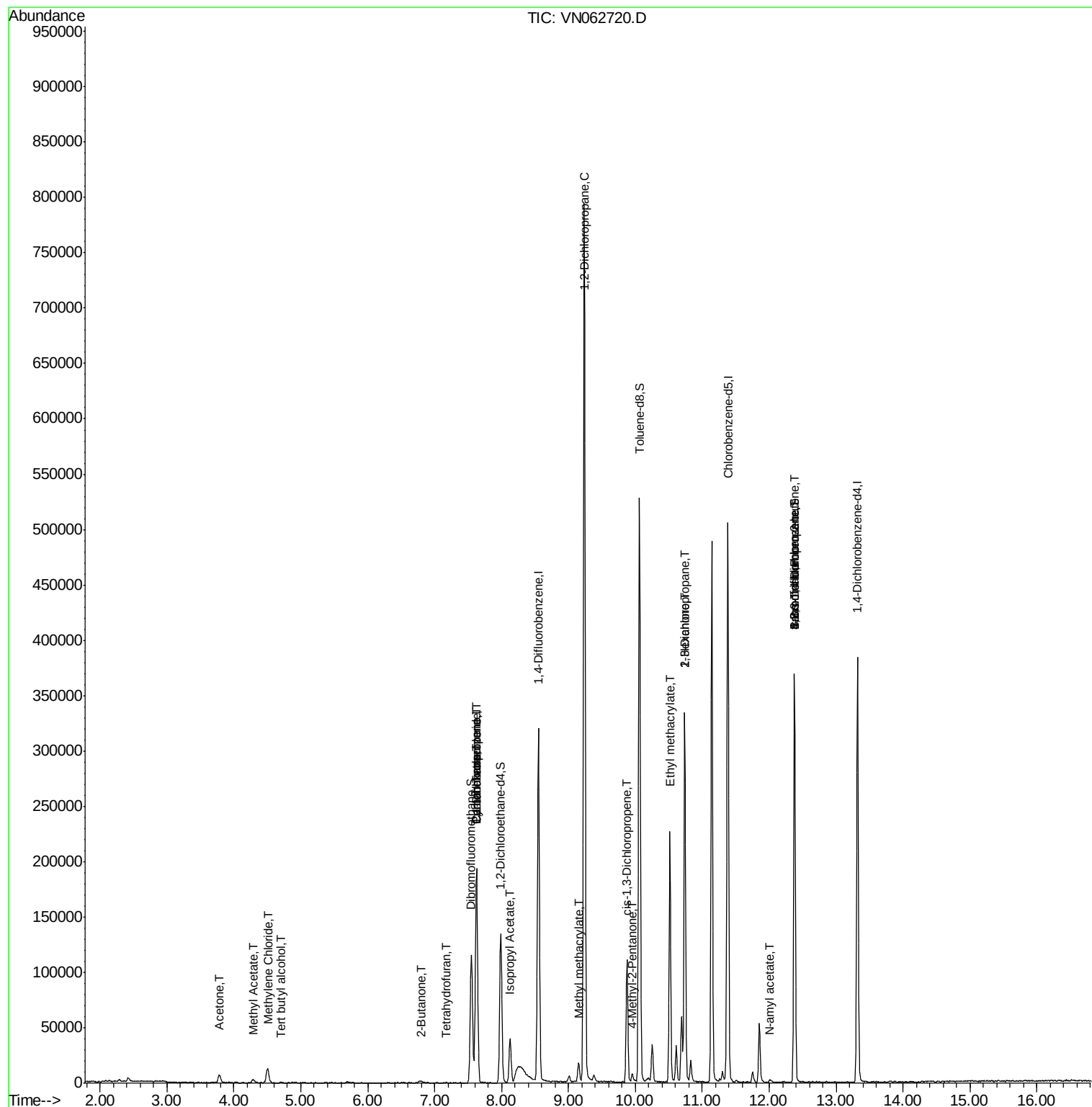
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.70	59	216	0.598	ug/l #	73
16) Acetone	3.78	43	12935	15.141	ug/l	97
18) Methyl Acetate	4.29	43	5856	2.708	ug/l #	86
20) Methylene Chloride	4.51	84	9844	4.804	ug/l	87
25) 2-Butanone	6.81	43	1835	1.410	ug/l #	79
29) Tetrahydrofuran	7.18	42	223	0.253	ug/l #	38
31) Cyclohexane	7.63	56	3598	1.076	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	13012	4.577	ug/l #	46
38) Carbon Tetrachloride	7.63	117	15836	5.795	ug/l #	18
43) Isopropyl Acetate	8.13	43	46626	9.438	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	777	0.322	ug/l #	44
48) Methyl methacrylate	9.15	41	2924	1.245	ug/l #	15
51) 4-Methyl-2-Pentanone	9.96	43	4852	1.641	ug/l	94
54) cis-1,3-Dichloropropene	9.87	75	18513	5.122	ug/l #	67
56) Ethyl methacrylate	10.52	69	999	2.046	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3105	0.874	ug/l #	42
59) 2-Hexanone	10.74	43	49596	24.397	ug/l #	53
71) Bromoform	12.37	173	492	0.307	ug/l #	1
74) N-amyl acetate	12.00	43	2403	0.684	ug/l #	45
76) 1,2,3-Trichloropropane	12.38	75	72181	28.485	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	72181	79.295	ug/l #	12

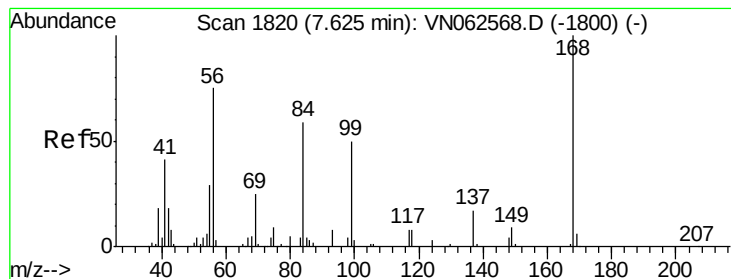
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jul 21 18:48:59 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VN062720.D

Acq: 1 Aug 2020 6:00

Instrument :

MSVOA_N

ClientSampled :

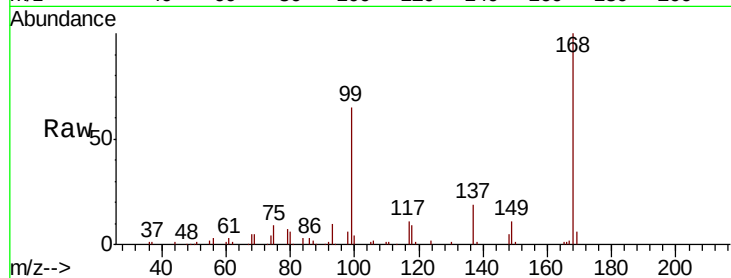
TP-11

Tot Ion:168 Resp: 146138

Ion Ratio Lower Upper

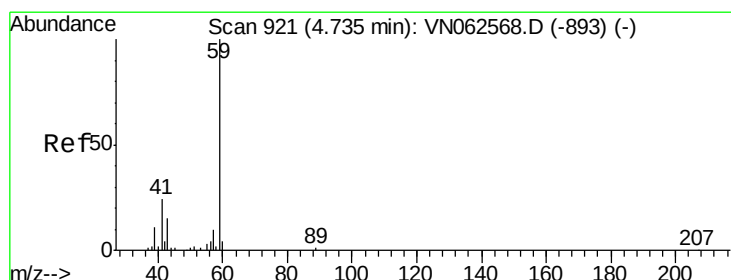
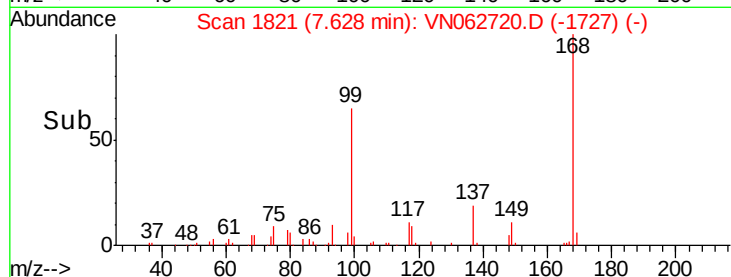
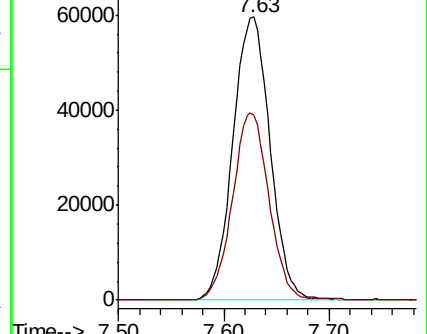
168 100

99 65.3 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 0.598 ug/l

RT: 4.70 min Scan# 911

Delta R.T. -0.03 min

Lab File: VN062720.D

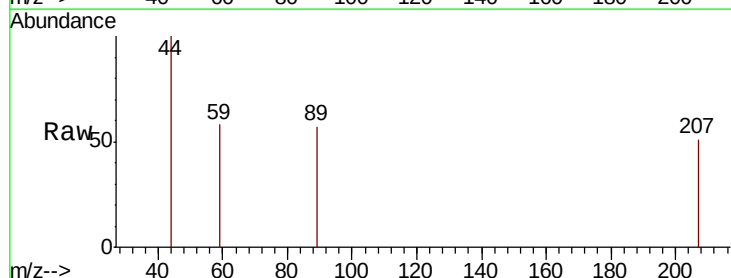
Acq: 1 Aug 2020 6:00

Tgt Ion: 59 Resp: 216

Ion Ratio Lower Upper

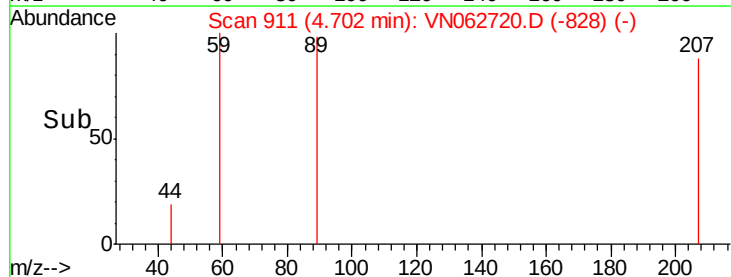
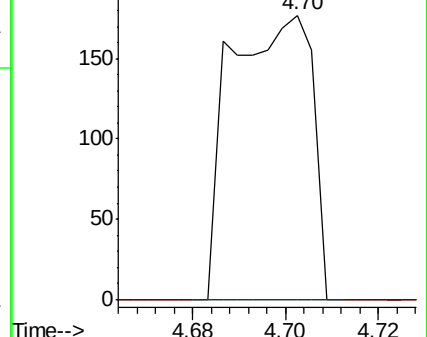
59 100

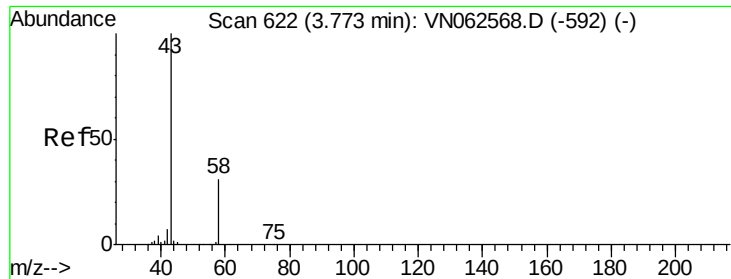
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 15.141 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN062720.D

Acq: 1 Aug 2020 6:00

Instrument :

MSVOA_N

ClientSampled :

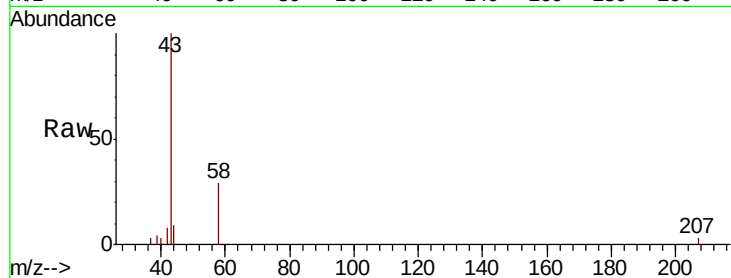
TP-11

Tot Ion: 43 Resp: 12935

Ion Ratio Lower Upper

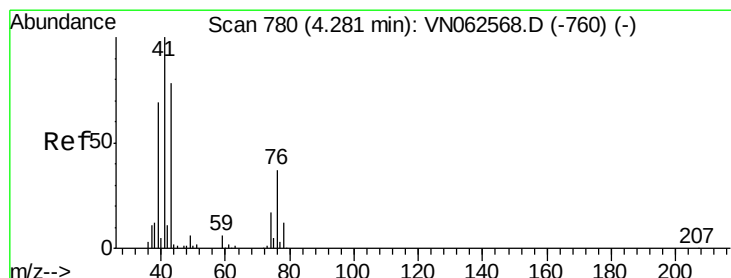
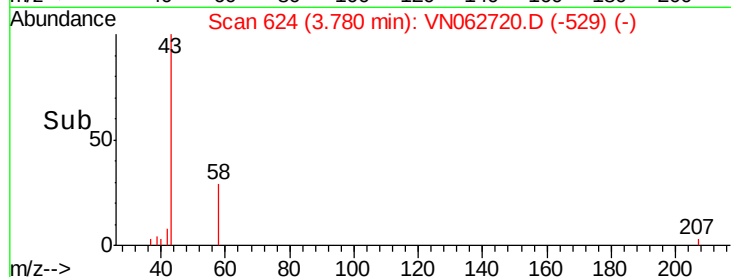
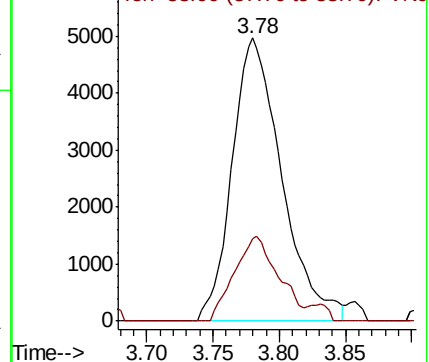
43 100

58 29.3 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 2.708 ug/l

RT: 4.29 min Scan# 783

Delta R.T. 0.01 min

Lab File: VN062720.D

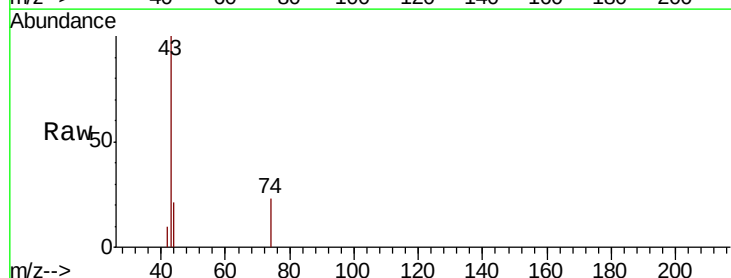
Acq: 1 Aug 2020 6:00

Tgt Ion: 43 Resp: 5856

Ion Ratio Lower Upper

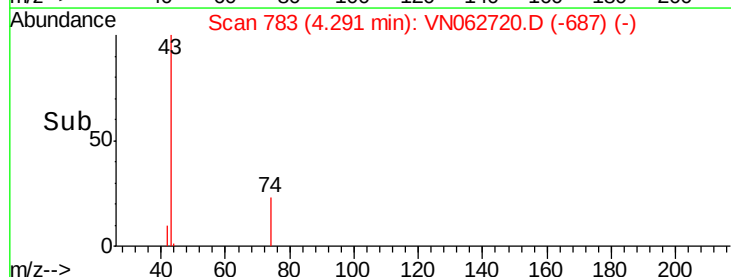
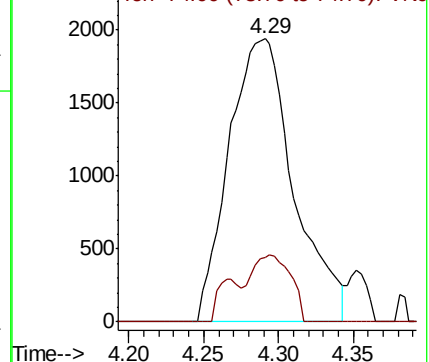
43 100

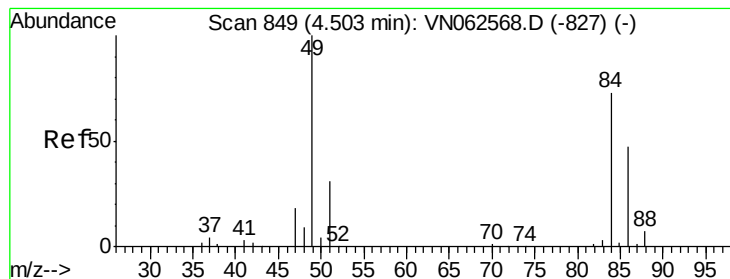
74 14.4 16.6 24.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methvlene Chloride

Concen: 4.804 ug/l

RT: 4.51 min Scan# 850

Delta R.T. 0.00 min

Lab File: VN062720.D

Acq: 1 Aug 2020 6:00

Instrument :

MSVOA_N

ClientSampleId :

TP-11

Tot Ion: 84 Resp: 9844

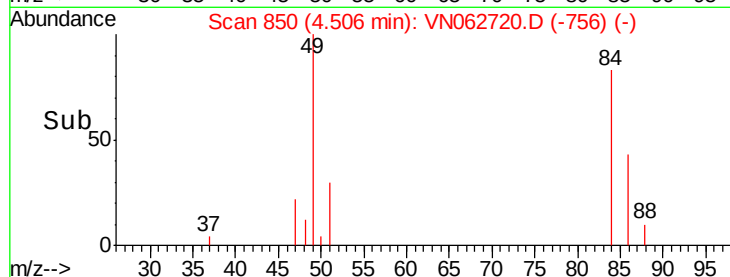
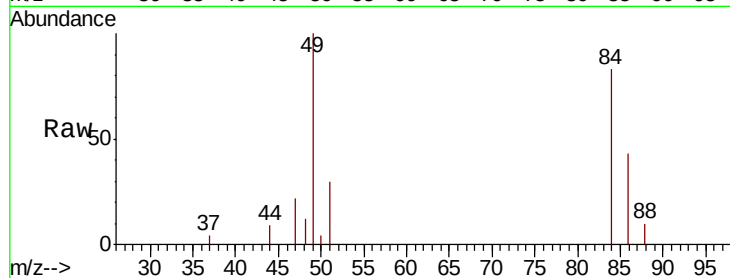
Ion Ratio Lower Upper

84 100

49 120.7 109.4 164.0

51 35.9 33.6 50.4

86 52.0 51.4 77.2

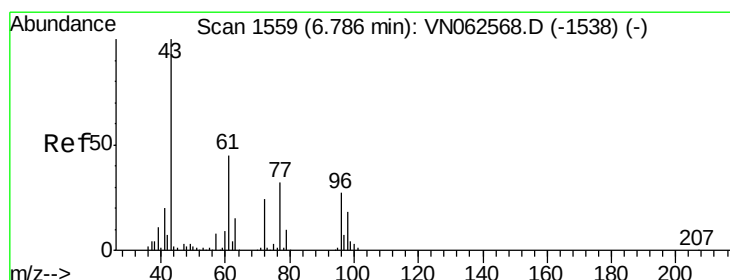
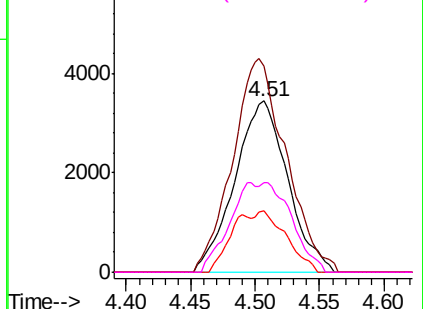


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 1.410 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.02 min

Lab File: VN062720.D

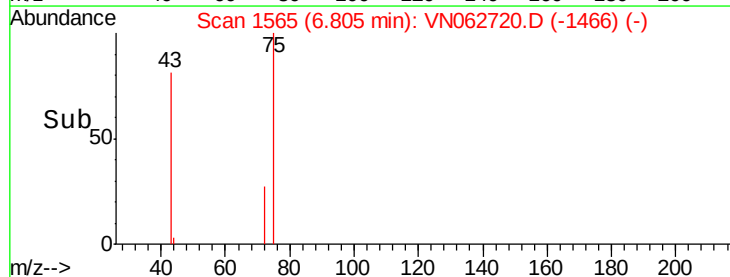
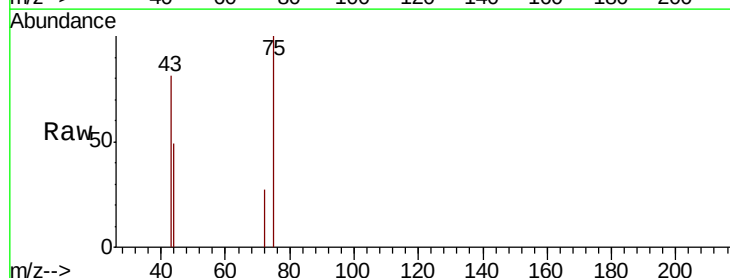
Acq: 1 Aug 2020 6:00

Tgt Ion: 43 Resp: 1835

Ion Ratio Lower Upper

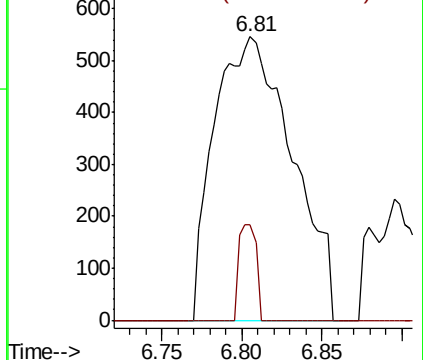
43 100

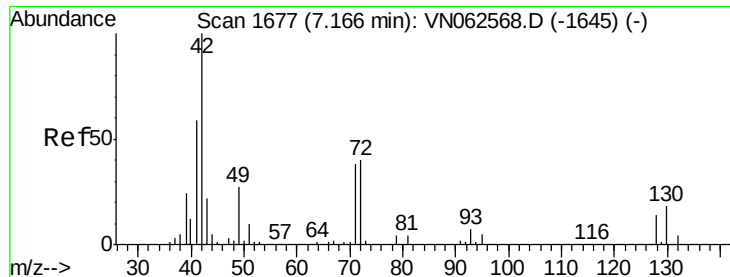
72 33.9 19.0 28.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.253 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. 0.01 min

Lab File: VN062720.D

Acq: 1 Aug 2020 6:00

Instrument :

MSVOA_N

ClientSampled :

TP-11

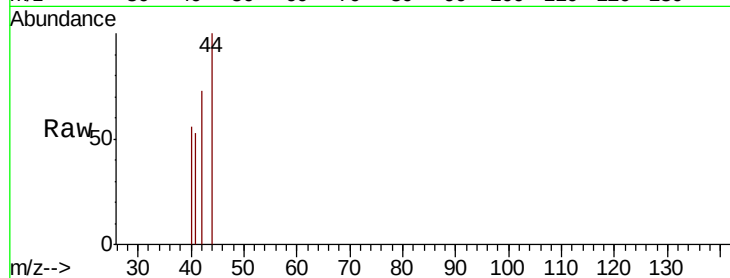
Tot Ion: 42 Resp: 223

Ion Ratio Lower Upper

42 100

72 0.0 30.7 46.1#

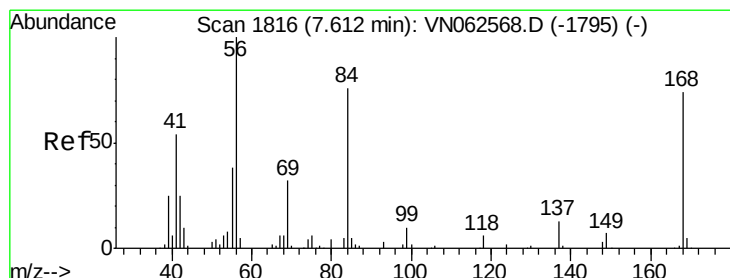
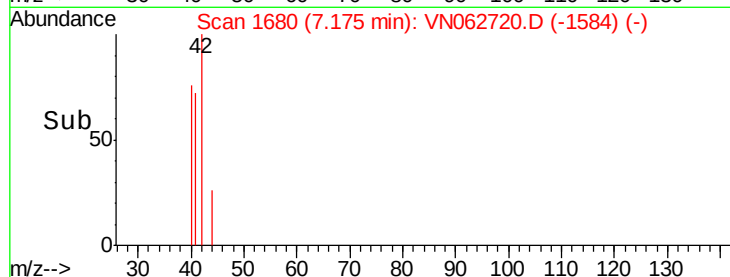
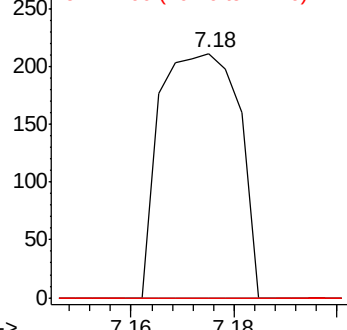
71 0.0 29.1 43.7#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.076 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN062720.D

Acq: 1 Aug 2020 6:00

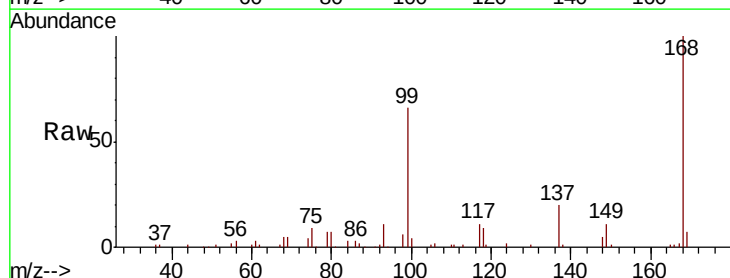
Tgt Ion: 56 Resp: 3598

Ion Ratio Lower Upper

56 100

69 194.2 25.3 37.9#

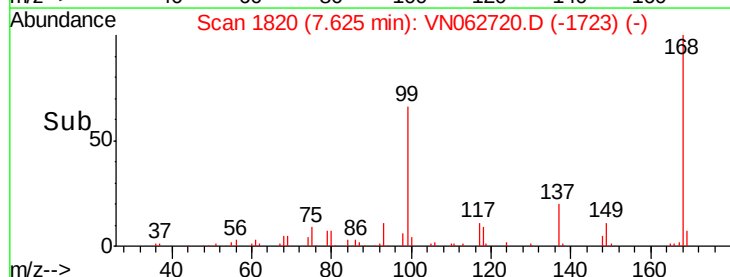
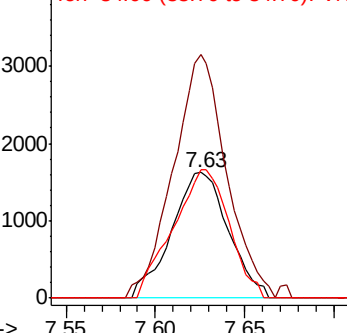
84 102.0 61.0 91.4#

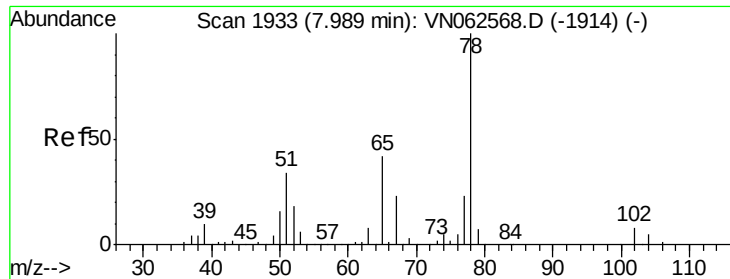


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

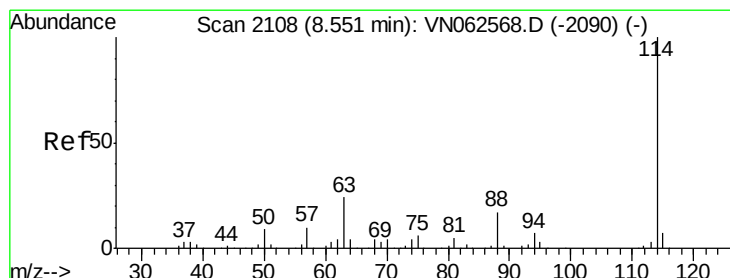
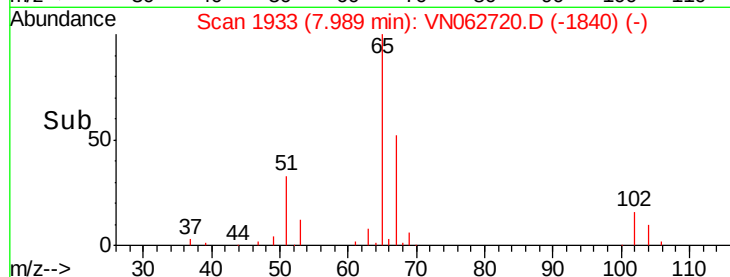
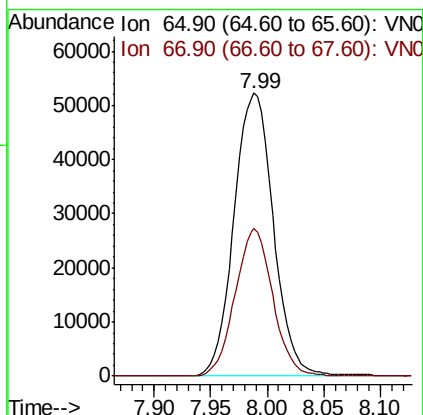
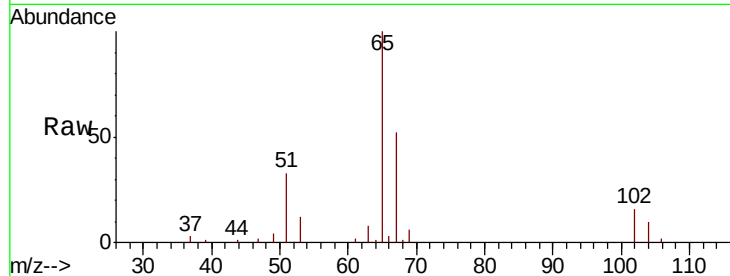




#33
 1,2-Dichloroethane-d4
 Concen: 55.789 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. -0.00 min
 Lab File: VN062720.D
 Acq: 1 Aug 2020 6:00

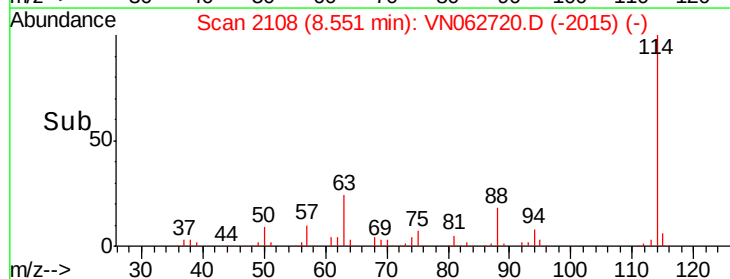
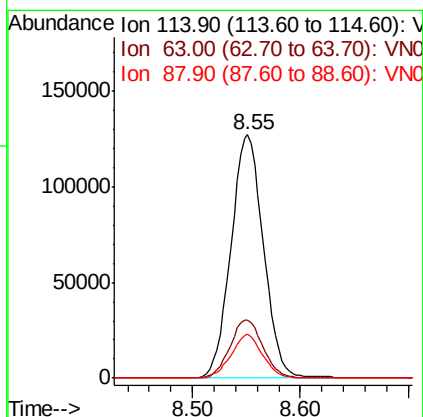
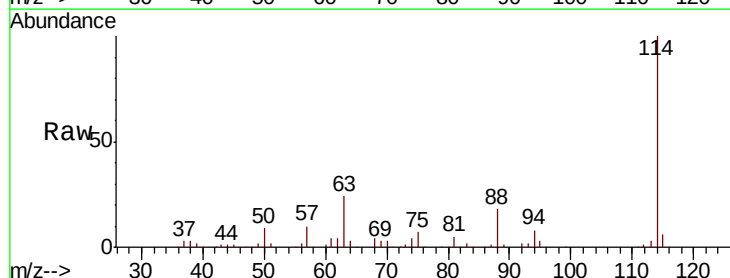
Instrument :
 MSVOA_N
 ClientSampled :
 TP-11

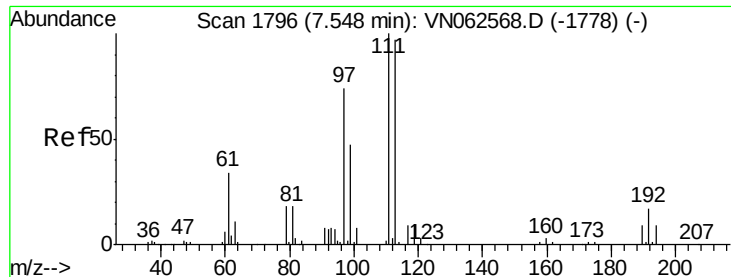
Tot Ion: 65 Resp: 126652
 Ion Ratio Lower Upper
 65 100
 67 49.8 0.0 106.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062720.D
 Acq: 1 Aug 2020 6:00

Tgt Ion: 114 Resp: 266722
 Ion Ratio Lower Upper
 114 100
 63 23.8 0.0 48.4
 88 17.9 0.0 33.8

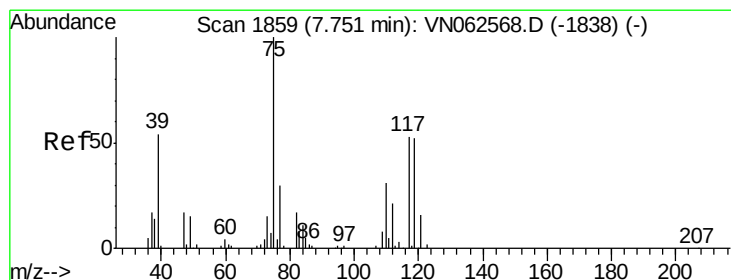
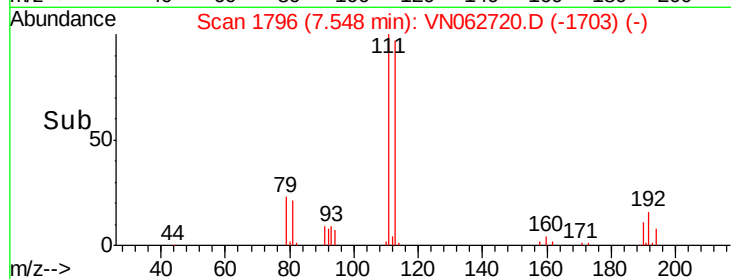
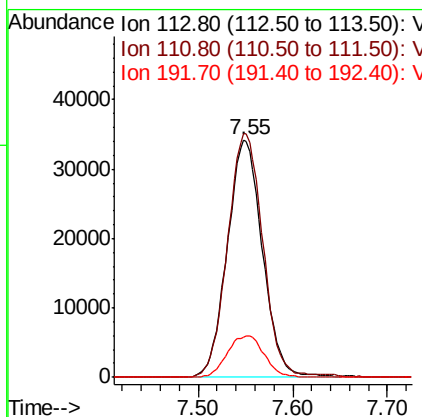
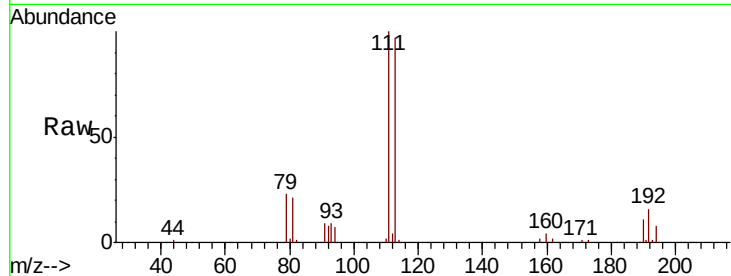




#35
 Dibromofluoromethane
 Concen: 50.423 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN062720.D
 Acq: 1 Aug 2020 6:00

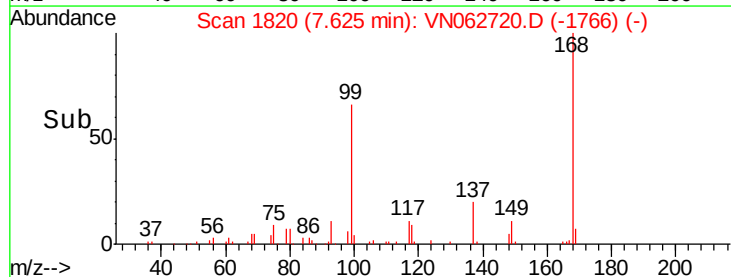
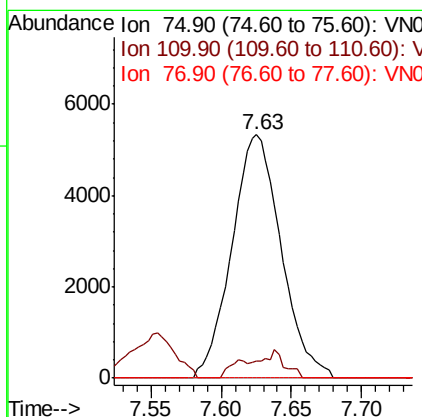
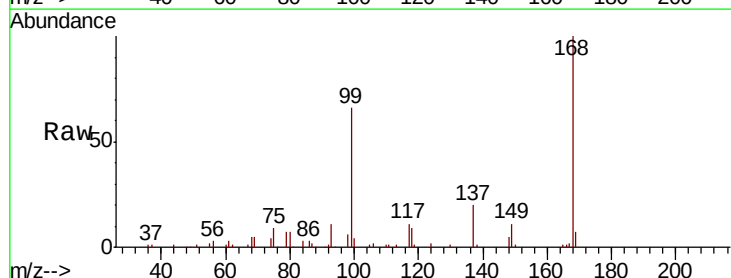
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-11

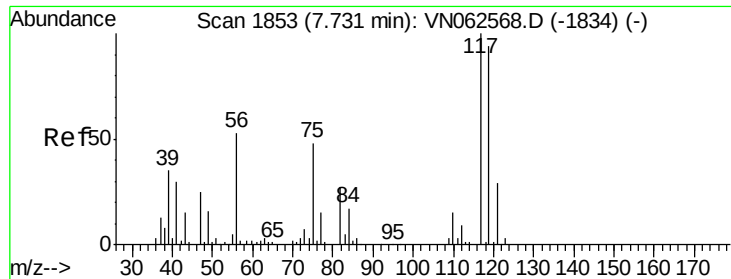
Tot Ion:113 Resp: 88341
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.7 124.1
 192 18.2 14.8 22.2



#36
 1,1-Dichloropropene
 Concen: 4.577 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062720.D
 Acq: 1 Aug 2020 6:00

Tgt Ion: 75 Resp: 13012
 Ion Ratio Lower Upper
 75 100
 110 2.8 16.0 48.0#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 5.795 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.10 min

Lab File: VN062720.D

Acq: 1 Aug 2020 6:00

Instrument :

MSVOA_N

ClientSampled :

TP-11

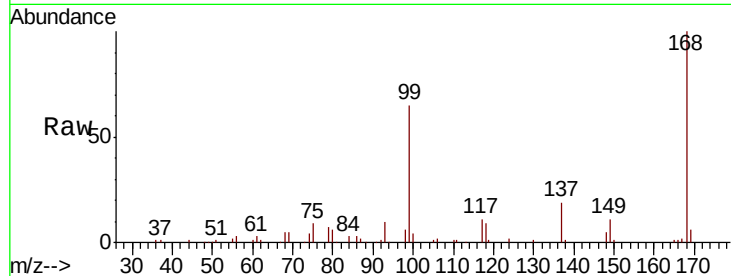
Tot Ion:117 Resp: 15836

Ion Ratio Lower Upper

117 100

119 6.5 74.8 112.2#

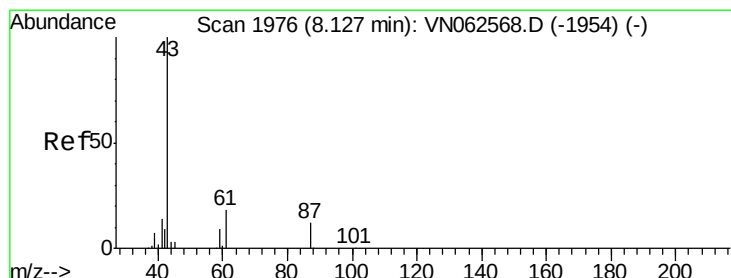
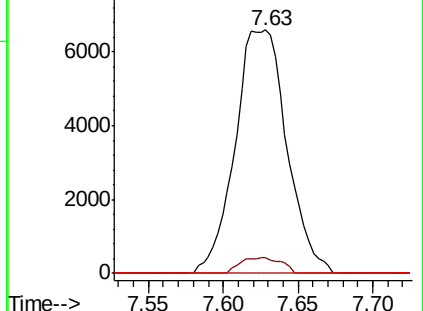
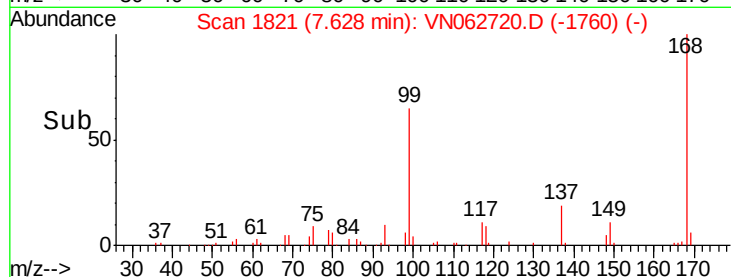
121 0.0 23.0 34.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 9.438 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062720.D

Acq: 1 Aug 2020 6:00

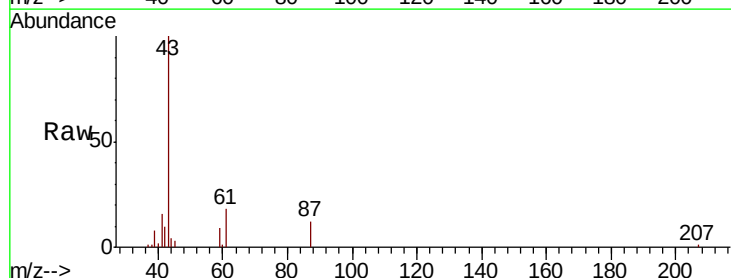
Tgt Ion: 43 Resp: 46626

Ion Ratio Lower Upper

43 100

61 18.5 20.8 31.2#

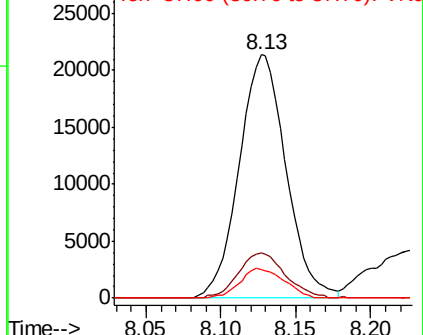
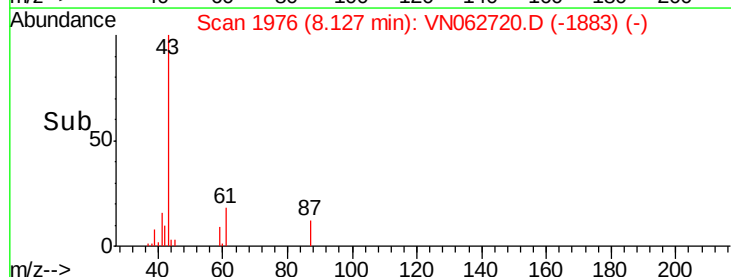
87 11.5 9.2 13.8

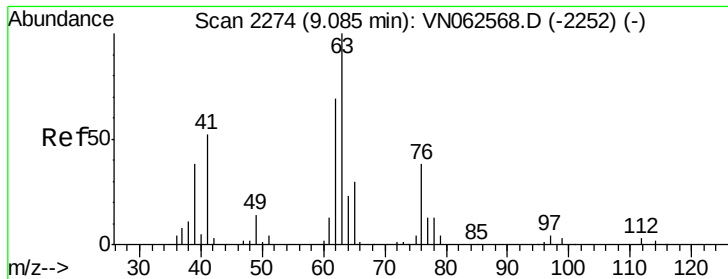


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.322 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN062720.D

Acq: 1 Aug 2020 6:00

Instrument :

MSVOA_N

ClientSampleId :

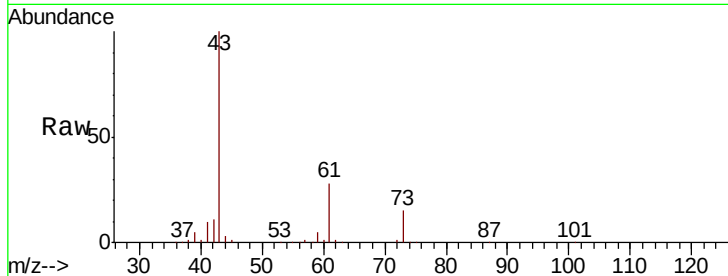
TP-11

Tot Ion: 63 Resp: 777

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.23

600

500

400

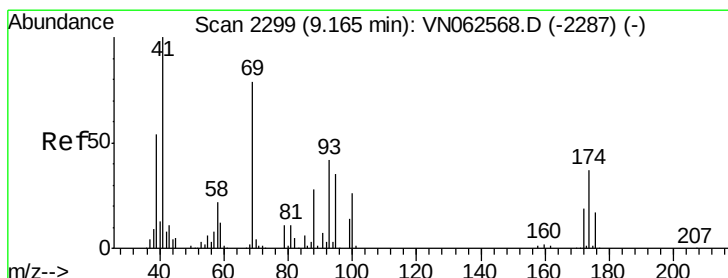
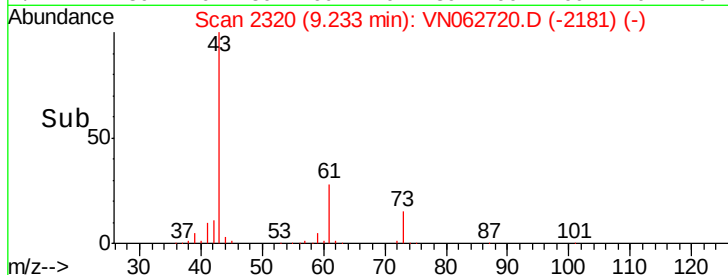
300

200

100

0

Time-->



#48

Methyl methacrylate

Concen: 1.245 ug/l

RT: 9.15 min Scan# 2293

Delta R.T. -0.02 min

Lab File: VN062720.D

Acq: 1 Aug 2020 6:00

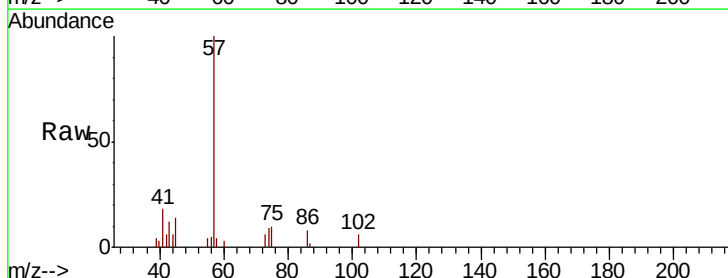
Tgt Ion: 41 Resp: 2924

Ion Ratio Lower Upper

41 100

69 0.0 64.4 96.6#

39 0.0 43.5 65.3#



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

40000

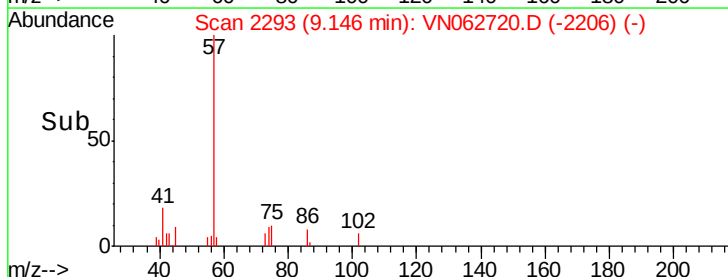
30000

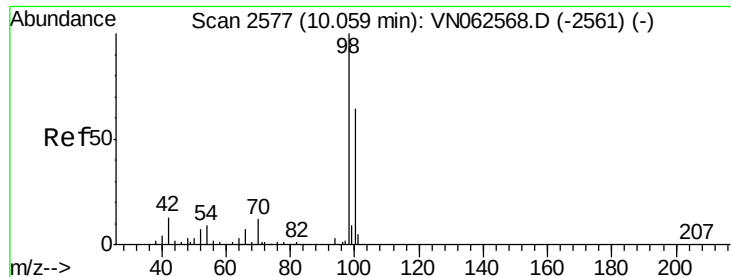
20000

10000

0

Time-->





#50

Toluene-d8

Concen: 50.321 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062720.D

Acq: 1 Aug 2020 6:00

Instrument :

MSVOA_N

ClientSampled :

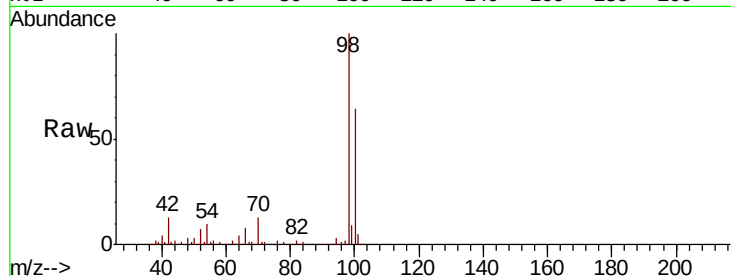
TP-11

Tot Ion: 98 Resp: 351761

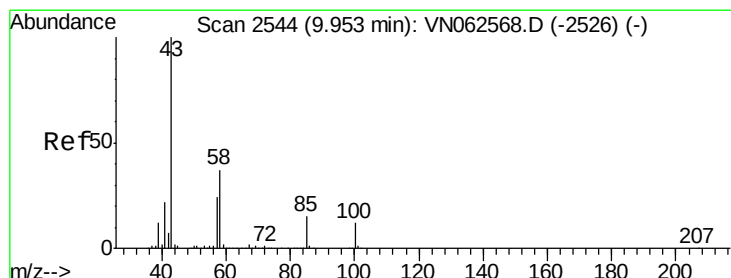
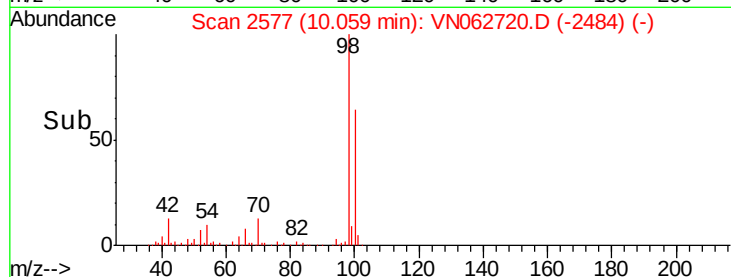
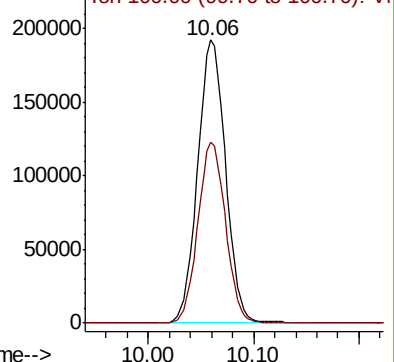
Ion Ratio Lower Upper

98 100

100 63.4 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VN062720.D (-2484) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.641 ug/l

RT: 9.96 min Scan# 2545

Delta R.T. 0.00 min

Lab File: VN062720.D

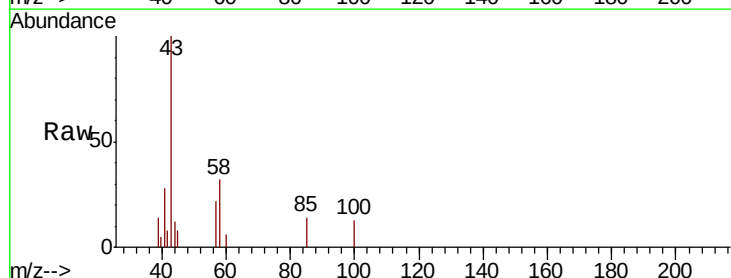
Acq: 1 Aug 2020 6:00

Tgt Ion: 43 Resp: 4852

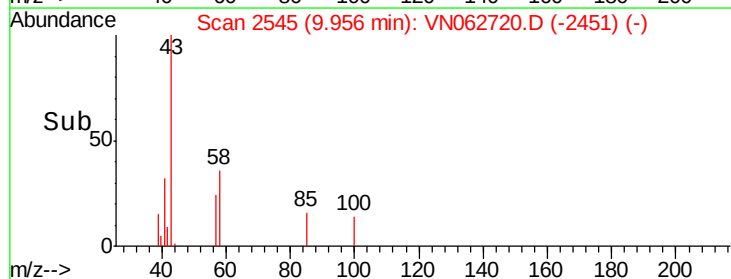
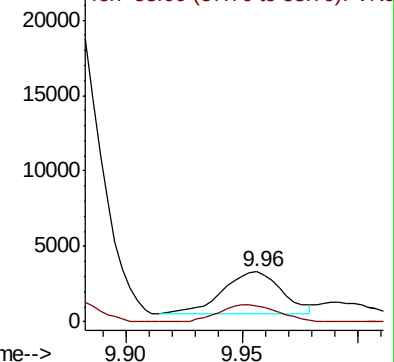
Ion Ratio Lower Upper

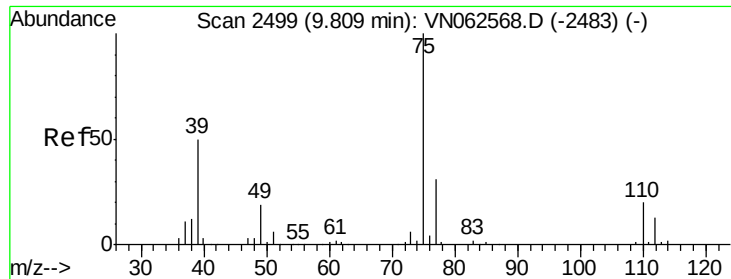
43 100

58 41.0 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN062720.D (-2451) (-)





#54

cis-1,3-Dichloropropene

Concen: 5.122 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.06 min

Lab File: VN062720.D

Acq: 1 Aug 2020 6:00

Instrument :

MSVOA_N

ClientSampled :

TP-11

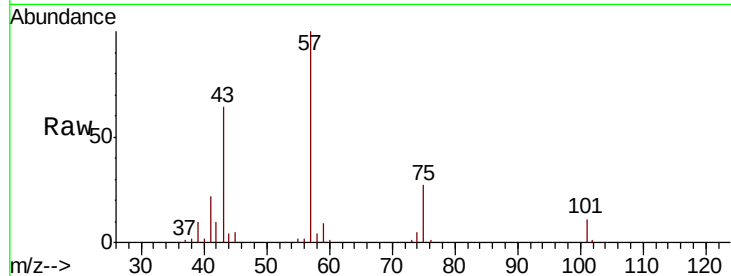
Tot Ion: 75 Resp: 18513

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

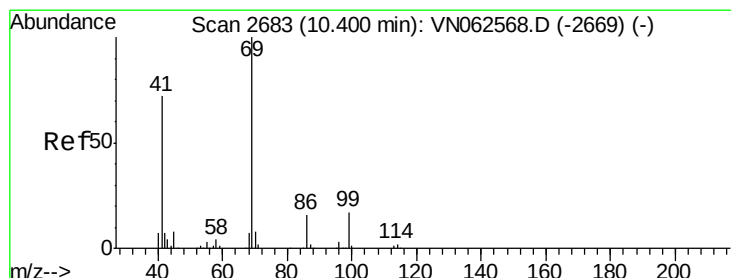
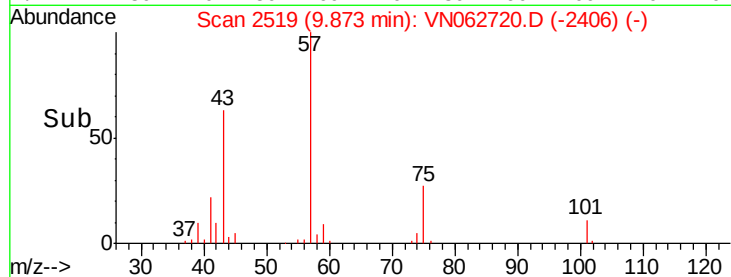
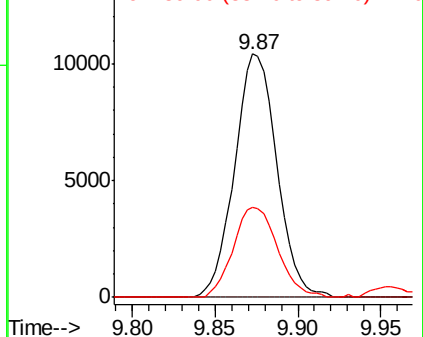
39 37.0 39.8 59.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 2.046 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.12 min

Lab File: VN062720.D

Acq: 1 Aug 2020 6:00

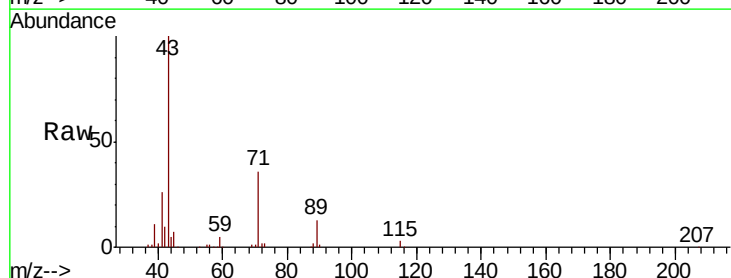
Tgt Ion: 69 Resp: 999

Ion Ratio Lower Upper

69 100

41 4317.2 57.2 85.8#

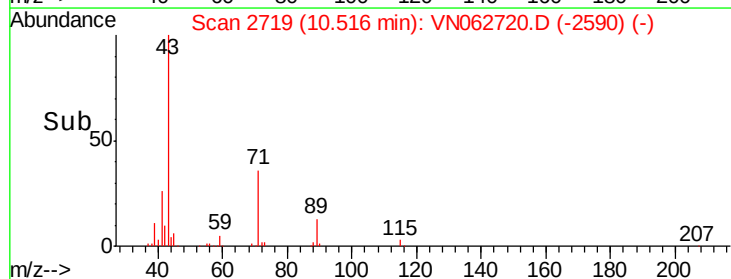
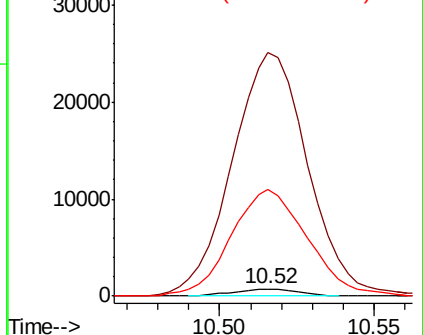
39 1892.8 28.6 43.0#

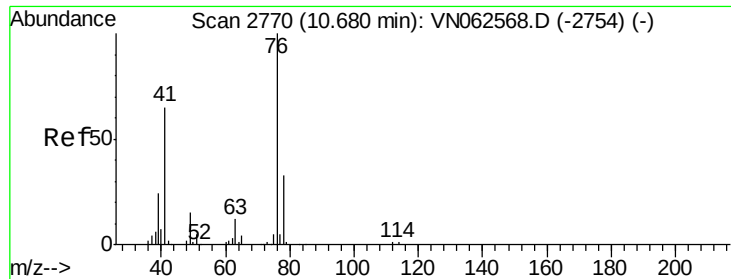


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 0.874 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062720.D

Acq: 1 Aug 2020 6:00

Instrument :

MSVOA_N

ClientSampled :

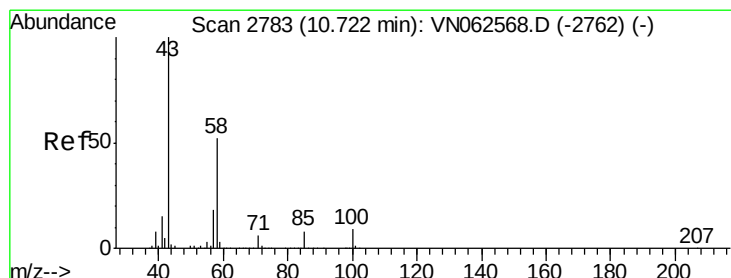
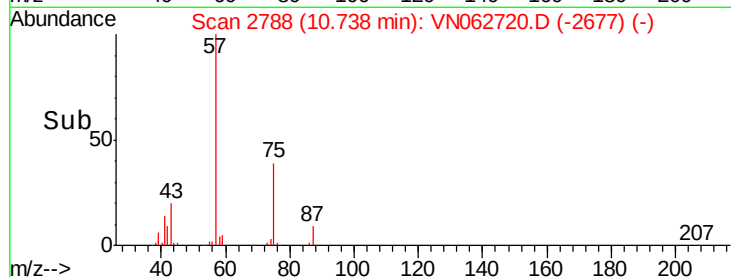
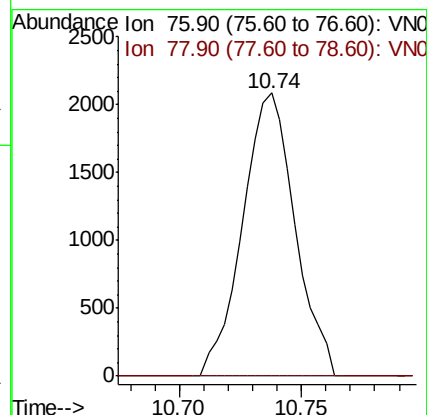
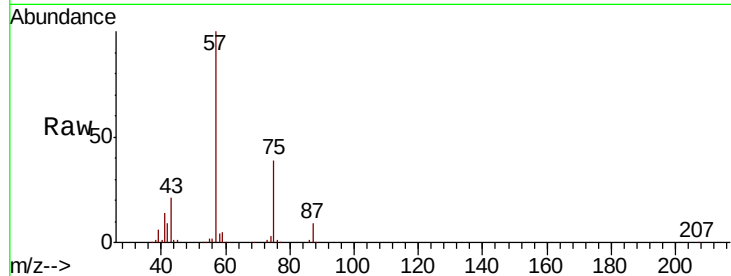
TP-11

Tot Ion: 76 Resp: 3105

Ion Ratio Lower Upper

76 100

78 0.0 26.3 39.5#



#59

2-Hexanone

Concen: 24.397 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.02 min

Lab File: VN062720.D

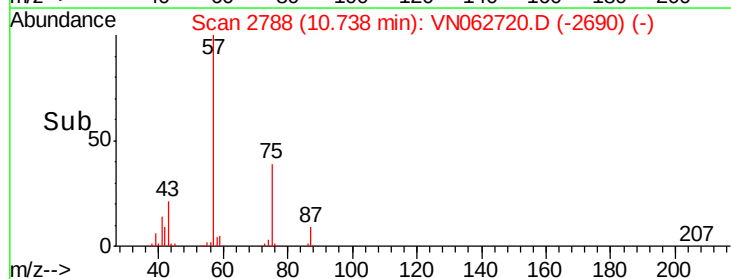
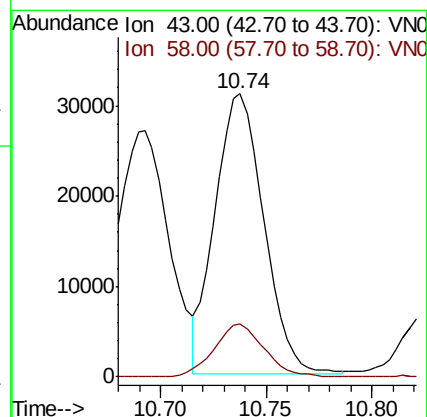
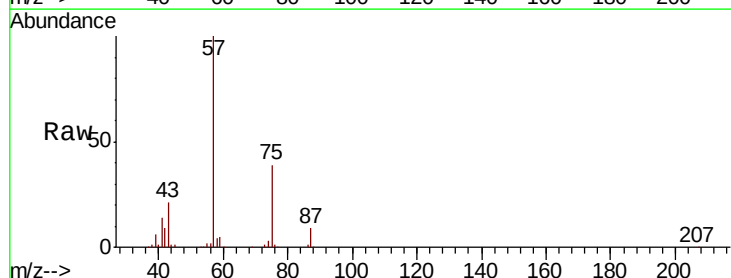
Acq: 1 Aug 2020 6:00

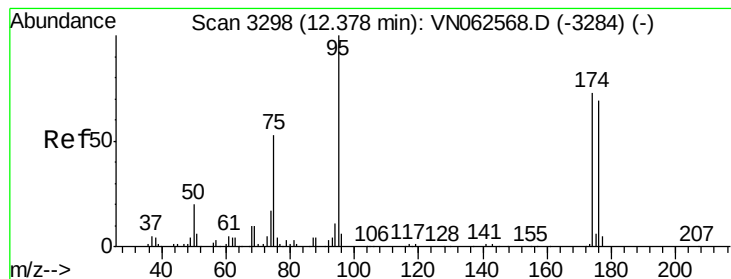
Tgt Ion: 43 Resp: 49596

Ion Ratio Lower Upper

43 100

58 19.3 26.0 78.0#





#62

4-Bromofluorobenzene

Concen: 50.967 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062720.D

Acq: 1 Aug 2020 6:00

Instrument :

MSVOA_N

ClientSampled :

TP-11

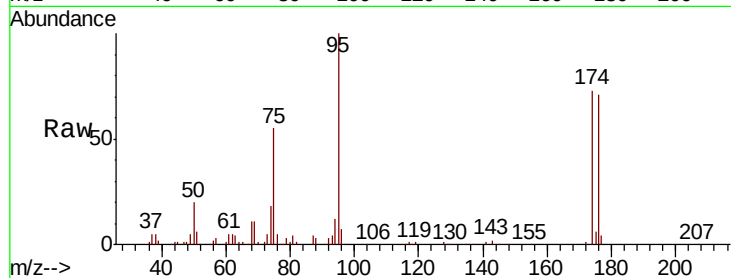
Tot Ion: 95 Resp: 130270

Ion Ratio Lower Upper

95 100

174 73.0 0.0 144.6

176 70.8 0.0 139.4

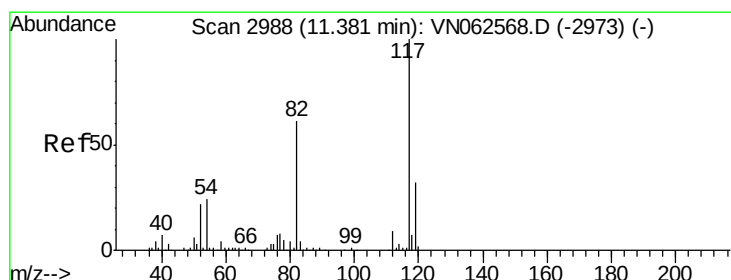
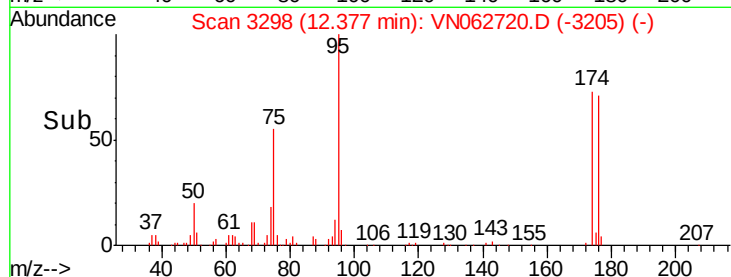
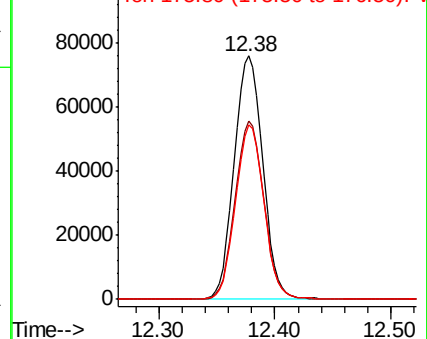


Abundance

Ion 94.90 (94.60 to 95.60): VN062720.D (-3205) (-)

Ion 173.80 (173.50 to 174.50): VN062720.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN062720.D (-3205) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN062720.D

Acq: 1 Aug 2020 6:00

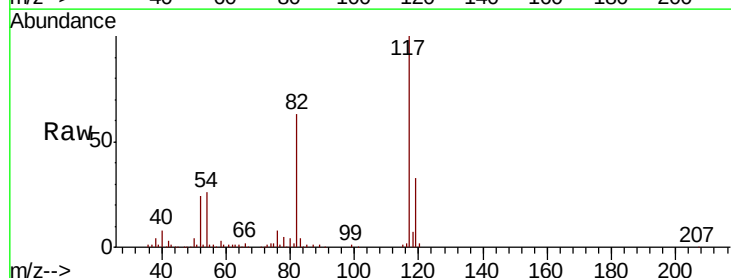
Tgt Ion: 117 Resp: 270430

Ion Ratio Lower Upper

117 100

82 63.3 49.0 73.6

119 32.6 25.4 38.2

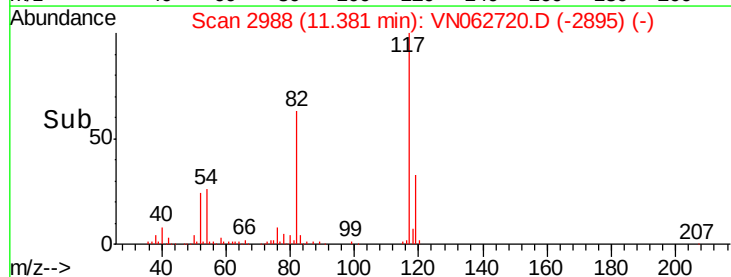
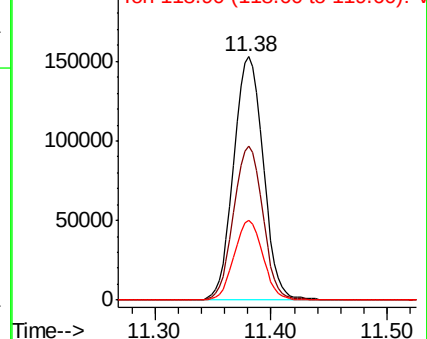


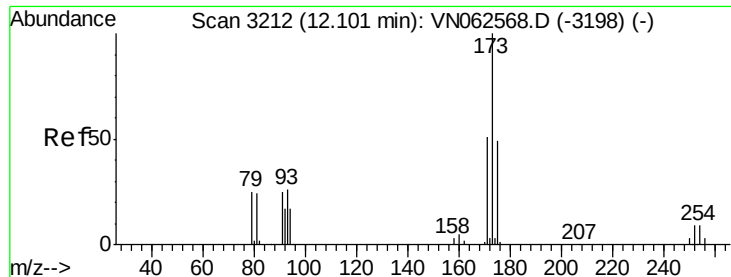
Abundance

Ion 116.90 (116.60 to 117.60): VN062720.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN062720.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN062720.D (-2895) (-)





#71

Bromoform

Concen: 0.307 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN062720.D

Acq: 1 Aug 2020 6:00

Instrument :

MSVOA_N

ClientSampled :

TP-11

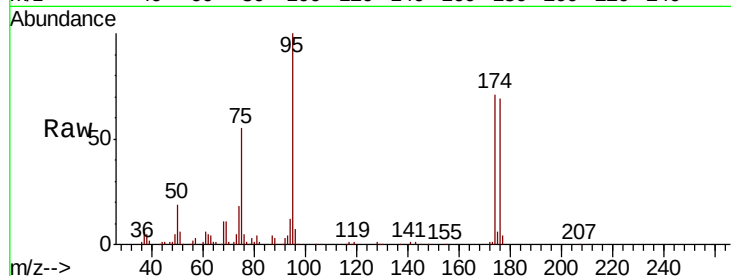
Tot Ion:173 Resp: 492

Ion Ratio Lower Upper

173 100

175 1232.5 24.1 72.2#

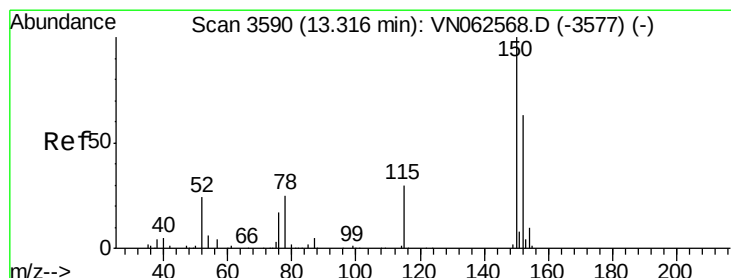
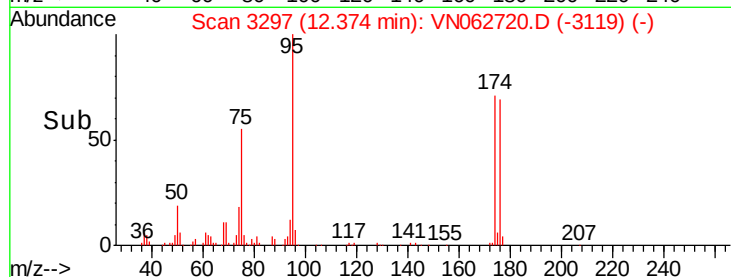
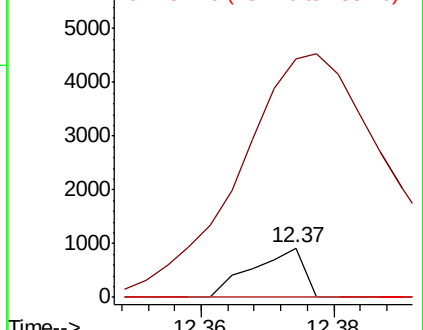
254 0.0 0.0 0.0



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: VN062720.D

Acq: 1 Aug 2020 6:00

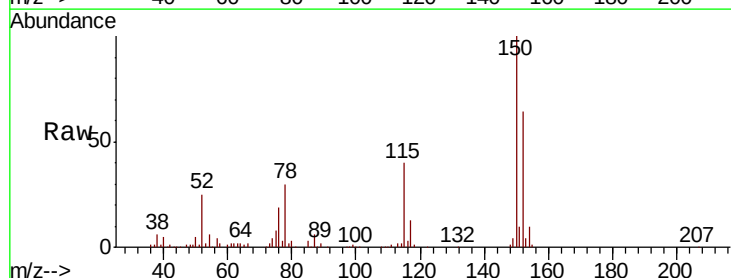
Tgt Ion:152 Resp: 99554

Ion Ratio Lower Upper

152 100

115 64.6 31.8 95.4

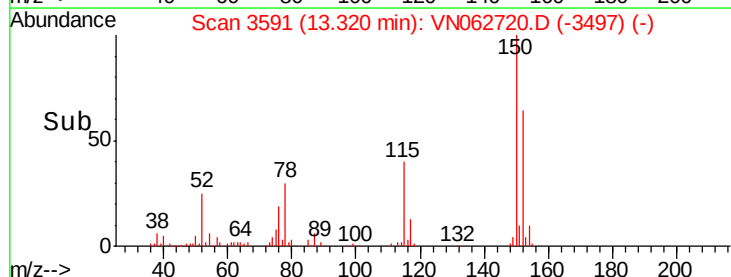
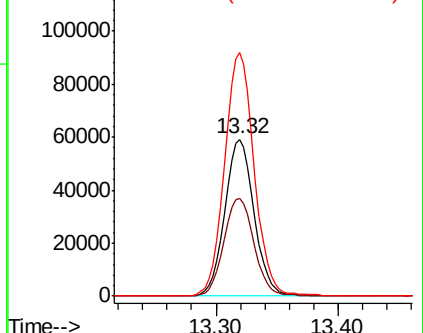
150 157.2 0.0 351.4

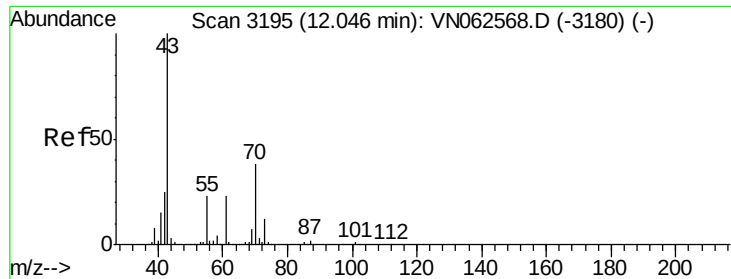


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

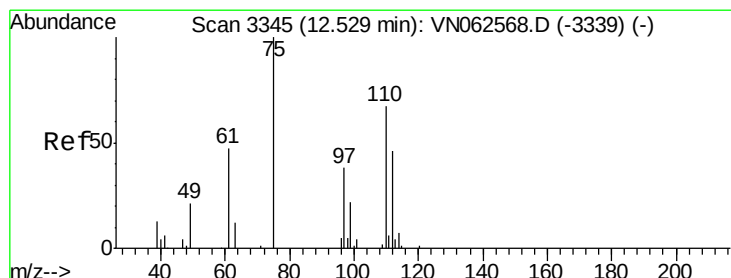
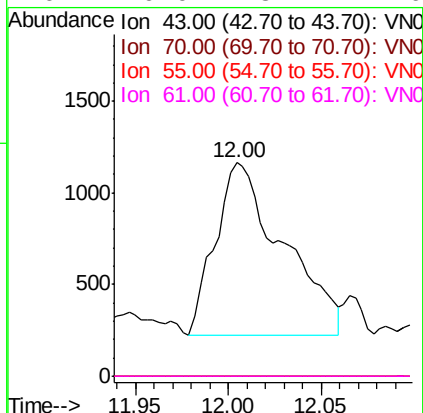
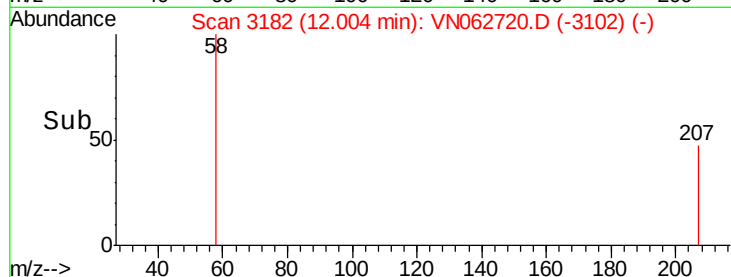
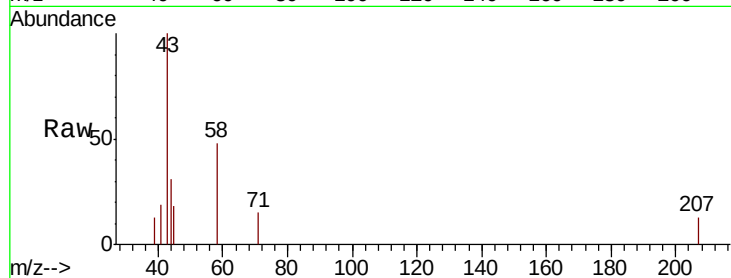




#74
N-amvl acetate
Concen: 0.684 ug/l
RT: 12.00 min Scan# 3182
Delta R.T. -0.04 min
Lab File: VN062720.D
Acq: 1 Aug 2020 6:00

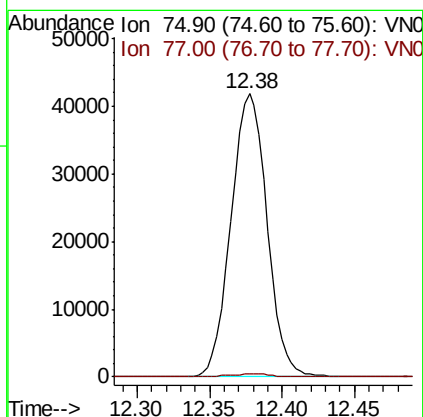
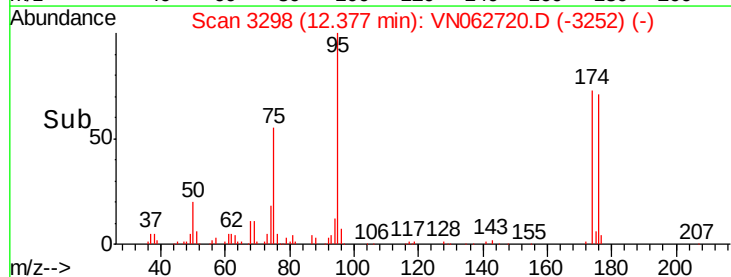
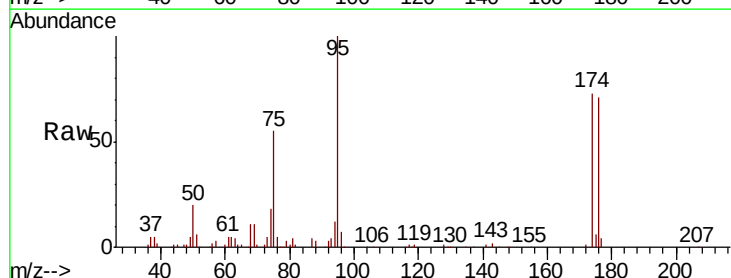
Instrument :
MSVOA_N
ClientSampleId :
TP-11

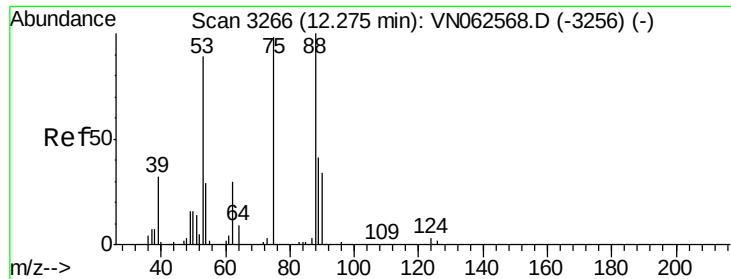
Tot Ion: 43 Resp: 2403
Ion Ratio Lower Upper
43 100
70 0.0 30.5 45.7#
55 0.0 19.0 28.6#
61 0.0 18.4 27.6#



#76
1,2,3-Trichloropropane
Concen: 28.485 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.15 min
Lab File: VN062720.D
Acq: 1 Aug 2020 6:00

Tgt Ion: 75 Resp: 72181
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 79.295 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062720.D

Acq: 1 Aug 2020 6:00

Instrument :

MSVOA_N

ClientSampleId :

TP-11

Tot Ion: 75 Resp: 72181

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

89 0.0 34.5 51.7#

