

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073120\
 Data File : VN062704.D
 Acq On : 31 Jul 2020 23:33
 Operator : JC/MD
 Sample : L3518-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-5

Quant Time: Aug 01 06:11:44 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

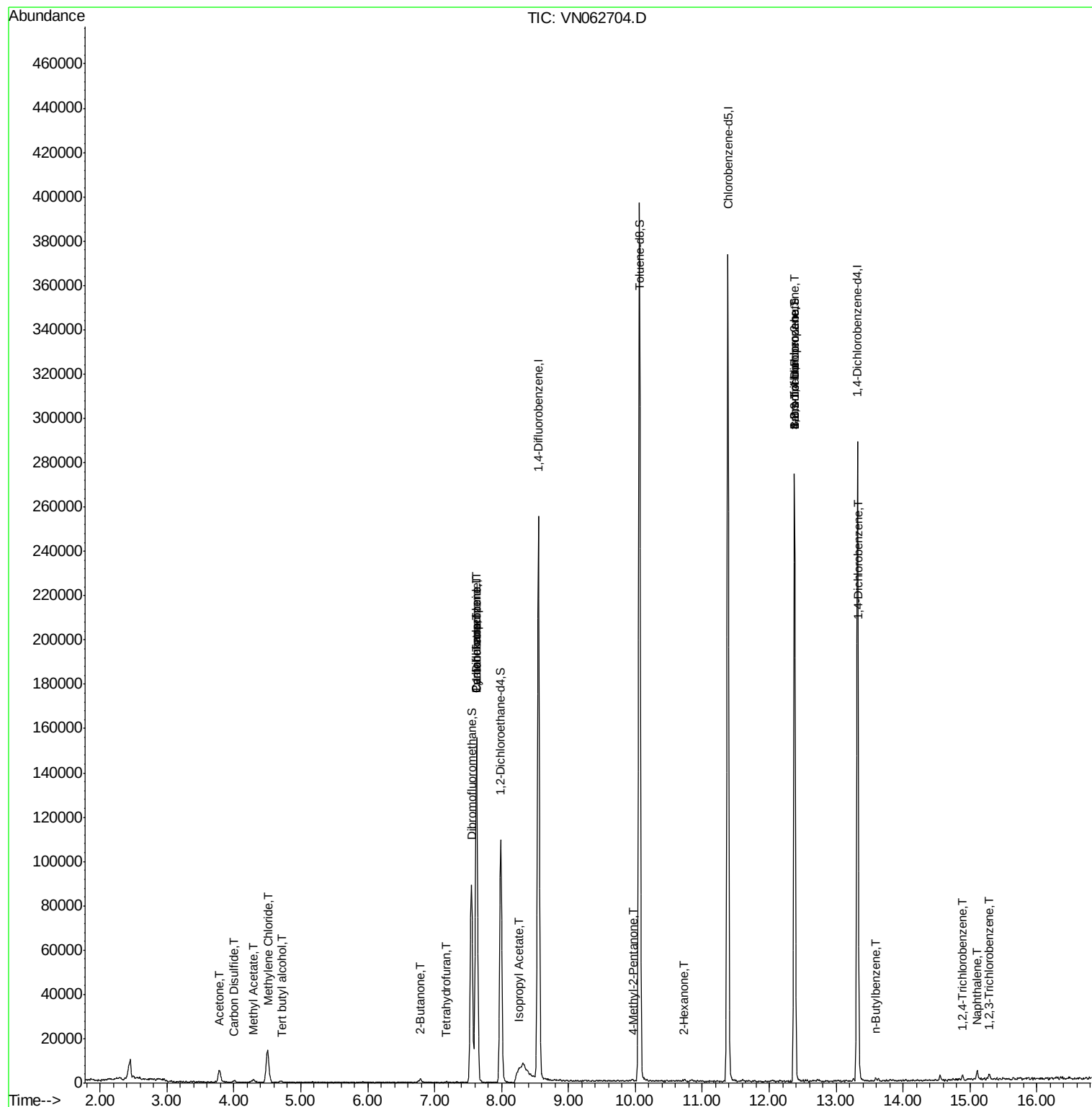
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	117706	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	210876	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	197959	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	72358	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	100402	54.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.82%	
35) Dibromofluoromethane	7.55	113	69663	50.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.58%	
50) Toluene-d8	10.06	98	268796	48.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.28%	
62) 4-Bromofluorobenzene	12.38	95	95616	47.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.64%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.70	59	70	0.241	ug/l #	73
16) Acetone	3.78	43	10097	14.674	ug/l	93
17) Carbon Disulfide	4.00	76	1225	0.296	ug/l #	75
18) Methyl Acetate	4.29	43	3285	1.886	ug/l #	64
20) Methylene Chloride	4.51	84	10869	6.586	ug/l	88
25) 2-Butanone	6.79	43	257	0.245	ug/l #	52
29) Tetrahydrofuran	7.17	42	290	0.409	ug/l #	38
31) Cyclohexane	7.63	56	2952	1.096	ug/l #	5
36) 1,1-Dichloropropene	7.62	75	10676	4.750	ug/l #	51
38) Carbon Tetrachloride	7.63	117	12825	5.936	ug/l #	17
43) Isopropyl Acetate	8.27	43	7036	1.801	ug/l #	55
51) 4-Methyl-2-Pentanone	9.96	43	1269	0.543	ug/l #	38
59) 2-Hexanone	10.72	43	1145	3.585	ug/l #	42
71) Bromoform	12.37	173	257	0.219	ug/l #	29
76) 1,2,3-Trichloropropane	12.38	75	52453	28.480	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	52453	79.281	ug/l #	12
88) 1,4-Dichlorobenzene	13.34	146	566	0.238	ug/l #	1
89) n-Butylbenzene	13.60	91	1219	0.313	ug/l #	76
93) 1,2,4-Trichlorobenzene	14.89	180	773	3.702	ug/l	82
94) Hexachlorobutadiene	14.99	225	175	Below Cal	#	19
95) Naphthalene	15.11	128	4453	5.041	ug/l #	91
96) 1,2,3-Trichlorobenzene	15.29	180	1044	0.960	ug/l	92

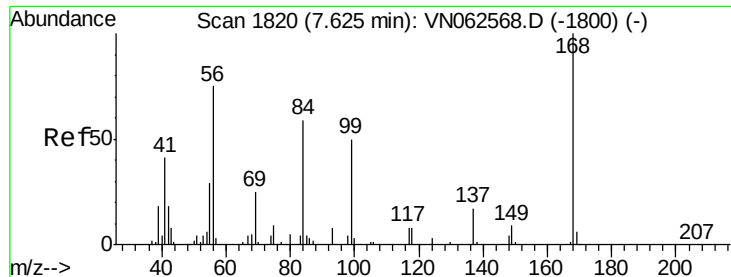
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN062704.D

Acq: 31 Jul 2020 23:33

Instrument :

MSVOA_N

ClientSampled :

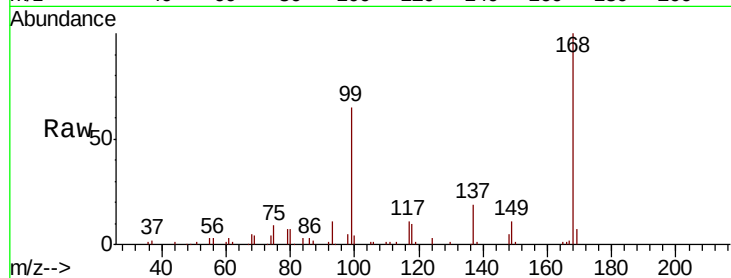
TP-5

Tot Ion:168 Resp: 117706

Ion Ratio Lower Upper

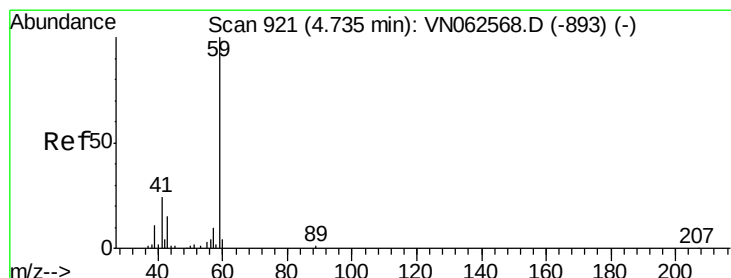
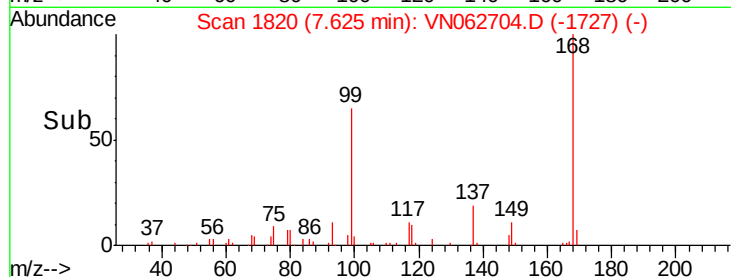
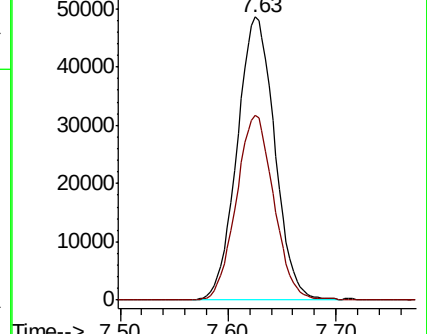
168 100

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): VN0



#11

Tert butyl alcohol

Concen: 0.241 ug/l

RT: 4.70 min Scan# 911

Delta R.T. -0.03 min

Lab File: VN062704.D

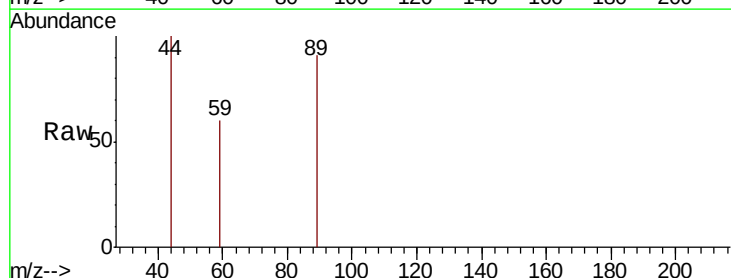
Acq: 31 Jul 2020 23:33

Tgt Ion: 59 Resp: 70

Ion Ratio Lower Upper

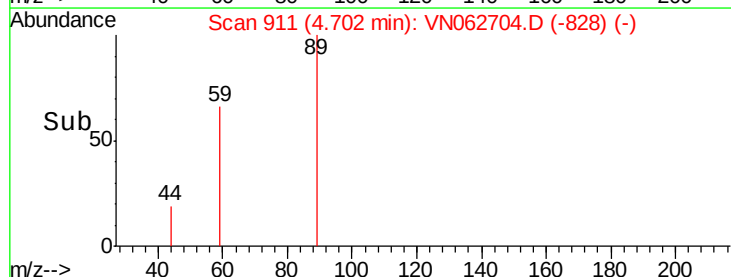
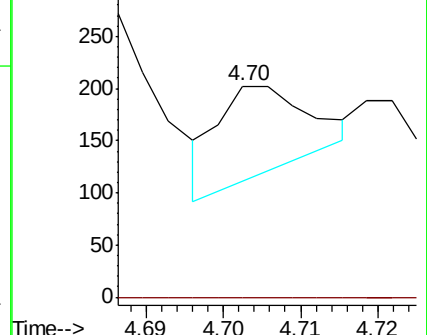
59 100

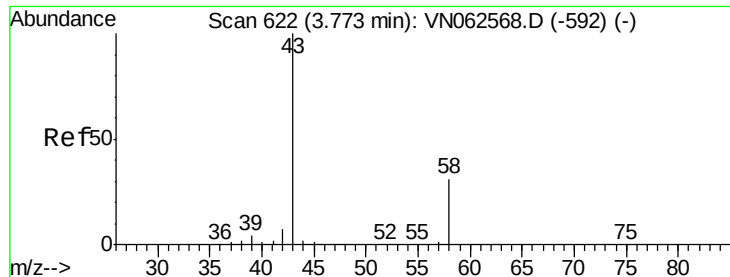
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 14.674 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN062704.D

Acq: 31 Jul 2020 23:33

Instrument :

MSVOA_N

ClientSampled :

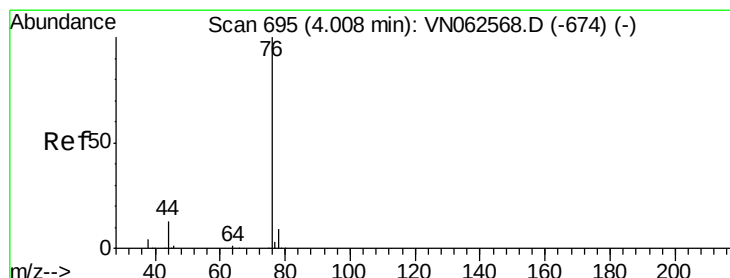
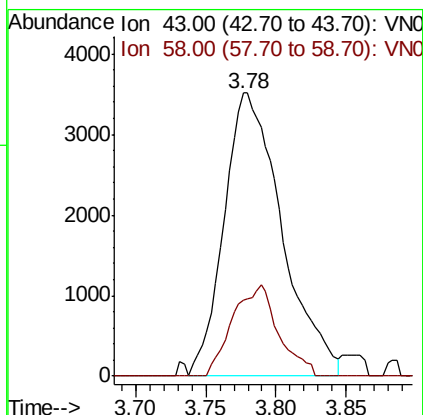
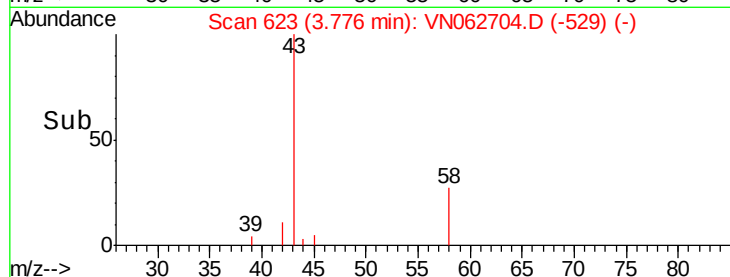
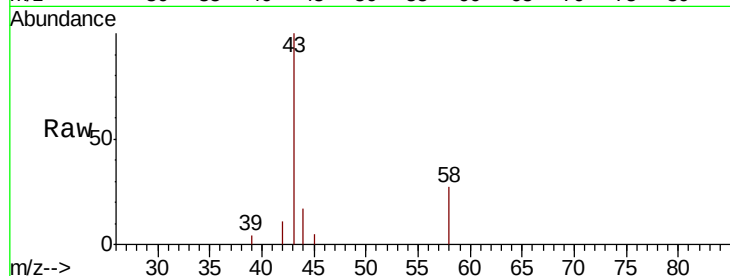
TP-5

Tot Ion: 43 Resp: 10097

Ion Ratio Lower Upper

43 100

58 26.7 24.6 37.0



#17

Carbon Disulfide

Concen: 0.296 ug/l

RT: 4.00 min Scan# 694

Delta R.T. -0.00 min

Lab File: VN062704.D

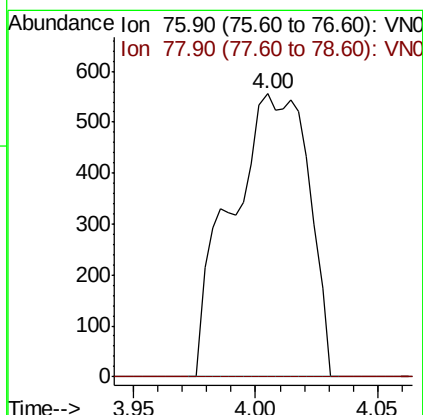
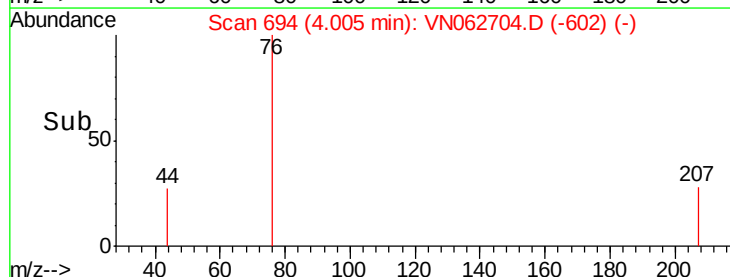
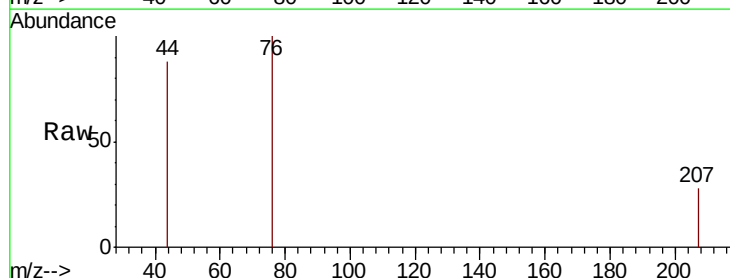
Acq: 31 Jul 2020 23:33

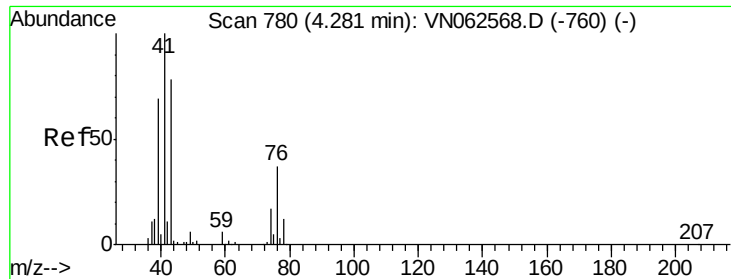
Tgt Ion: 76 Resp: 1225

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#

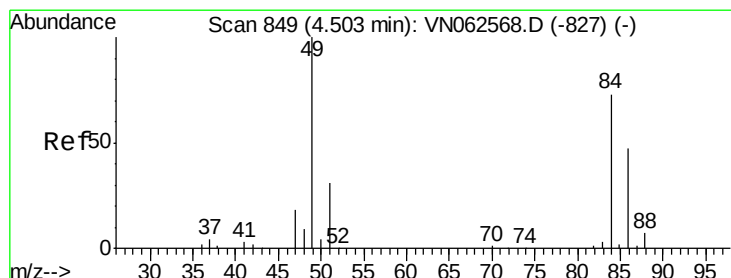
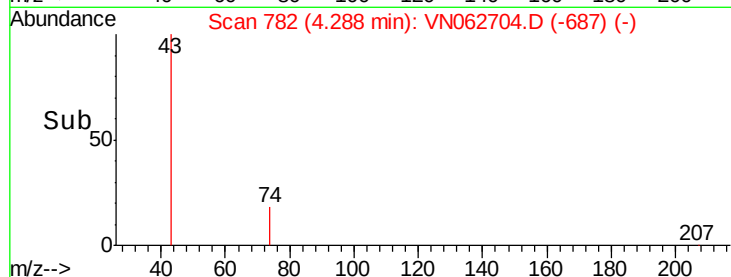
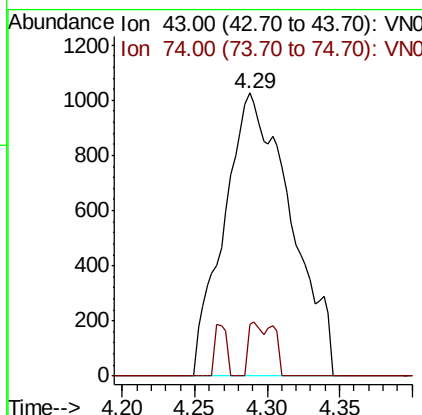
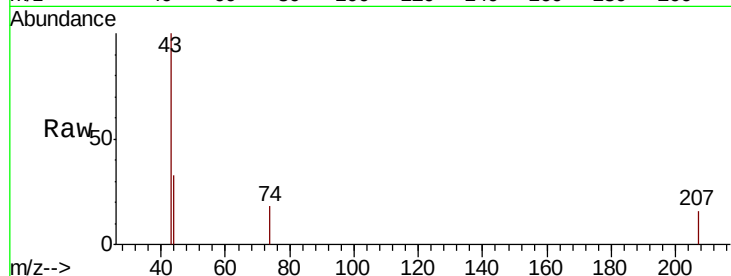




#18
Methyl Acetate
Concen: 1.886 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.01 min
Lab File: VN062704.D
Acq: 31 Jul 2020 23:33

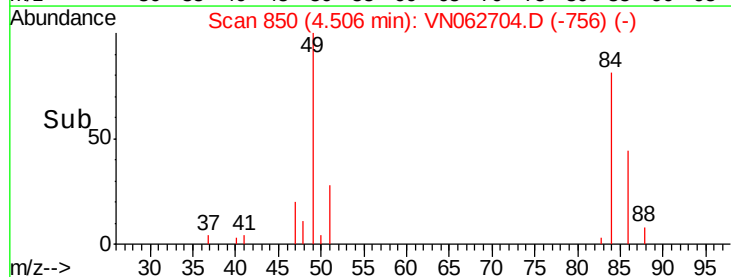
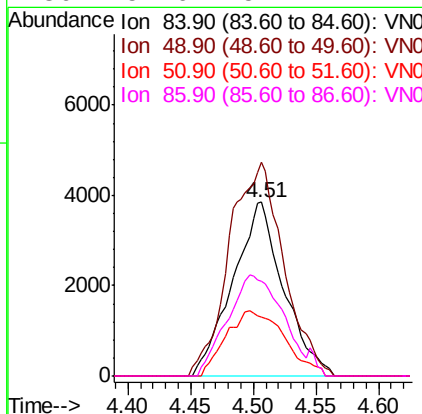
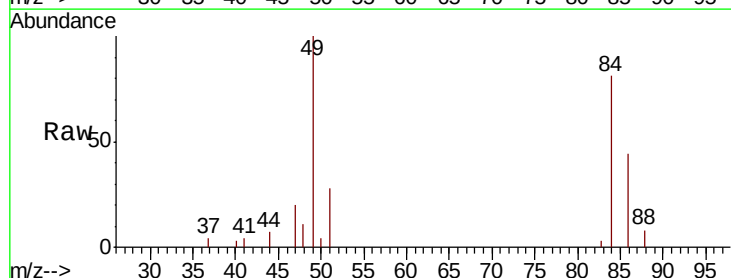
Instrument :
MSVOA_N
ClientSampleId :
TP-5

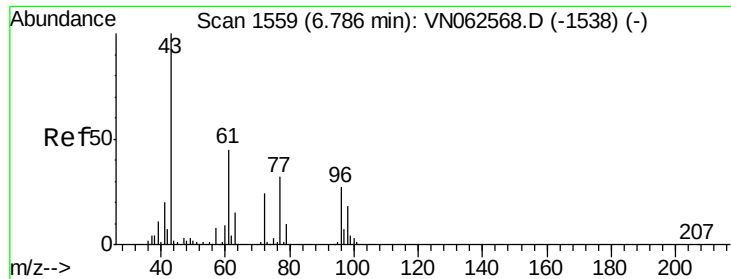
Tot Ion: 43 Resp: 3285
Ion Ratio Lower Upper
43 100
74 4.1 16.6 24.8#



#20
Methylene Chloride
Concen: 6.586 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.00 min
Lab File: VN062704.D
Acq: 31 Jul 2020 23:33

Tgt Ion: 84 Resp: 10869
Ion Ratio Lower Upper
84 100
49 123.0 109.4 164.0
51 34.0 33.6 50.4
86 54.6 51.4 77.2





#25

2-Butanone

Concen: 0.245 ug/l

RT: 6.79 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VN062704.D

Acq: 31 Jul 2020 23:33

Instrument :

MSVOA_N

ClientSampleId :

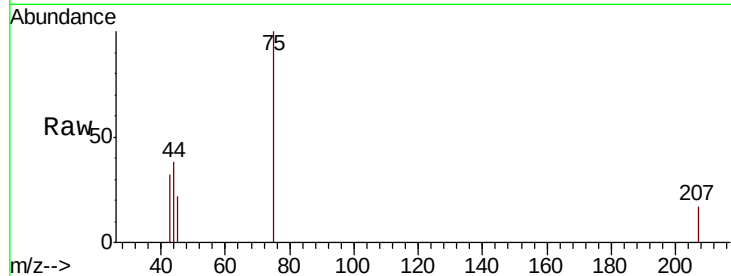
TP-5

Tot Ion: 43 Resp: 257

Ion Ratio Lower Upper

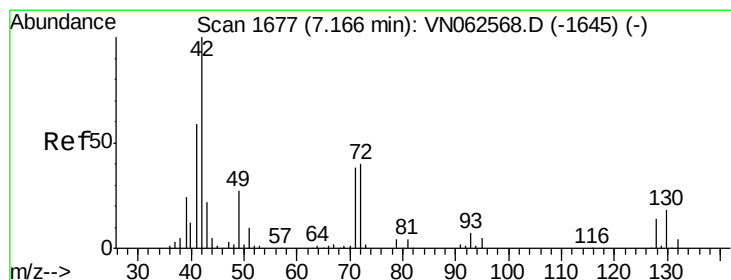
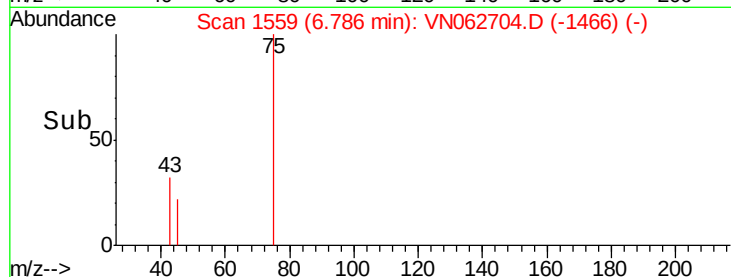
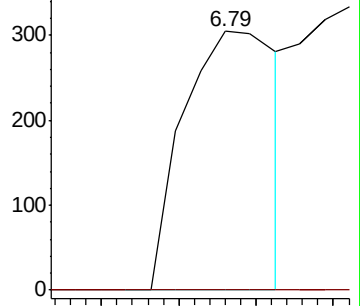
43 100

72 0.0 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: 0.409 ug/l

RT: 7.17 min Scan# 1679

Delta R.T. 0.01 min

Lab File: VN062704.D

Acq: 31 Jul 2020 23:33

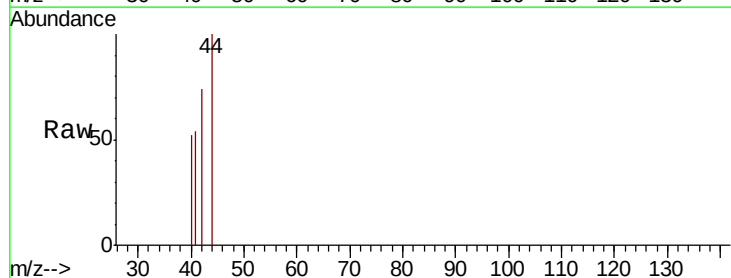
Tgt Ion: 42 Resp: 290

Ion Ratio Lower Upper

42 100

72 0.0 30.7 46.1#

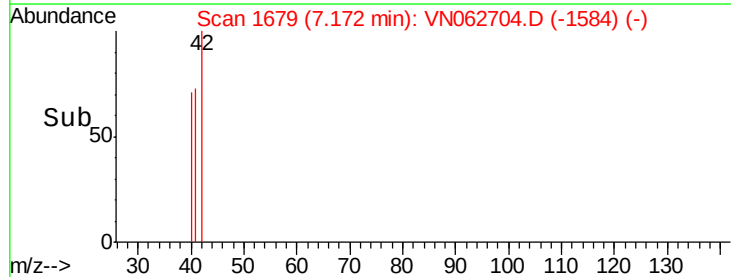
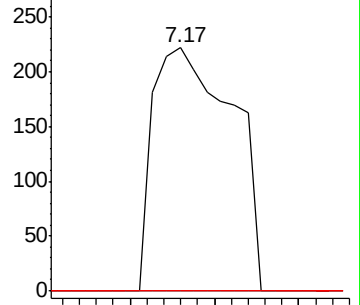
71 0.0 29.1 43.7#

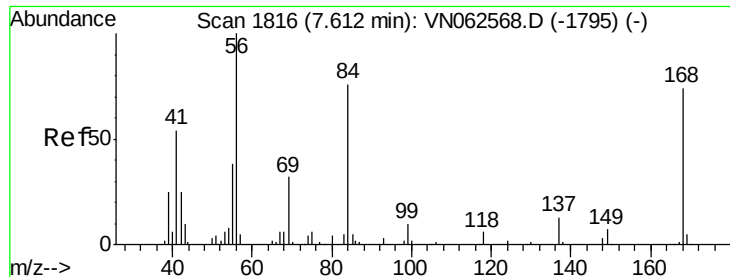


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

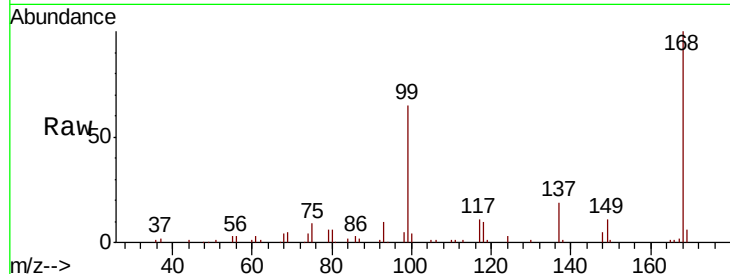




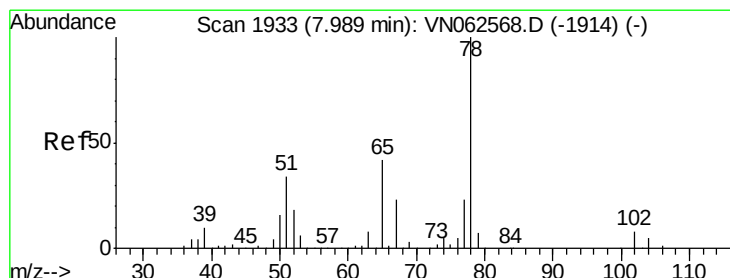
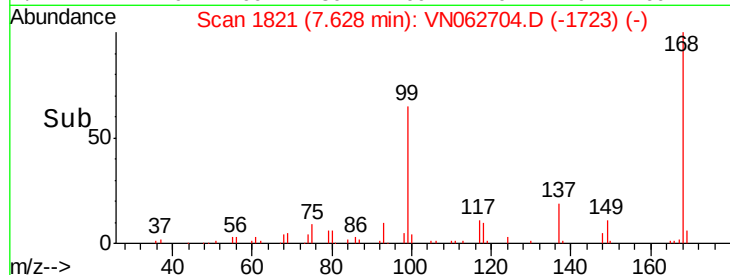
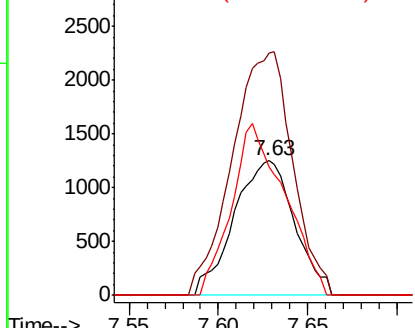
#31
Cyclohexane
Concen: 1.096 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. 0.02 min
Lab File: VN062704.D
Acq: 31 Jul 2020 23:33

Instrument :
MSVOA_N
ClientSampled :
TP-5

Tot Ion: 56 Resp: 2952
Ion Ratio Lower Upper
56 100
69 180.4 25.3 37.9#
84 95.5 61.0 91.4#

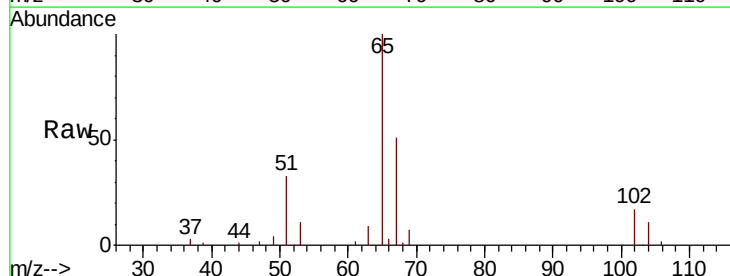


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

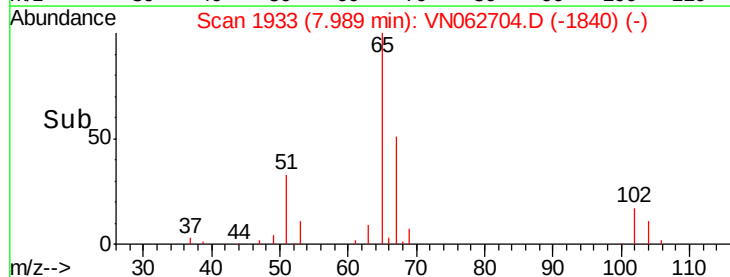
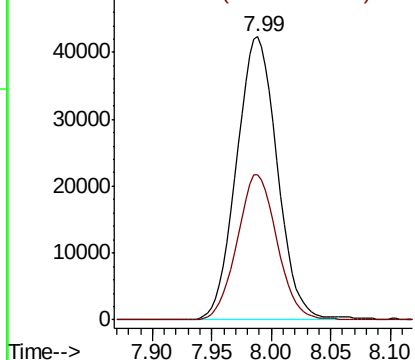


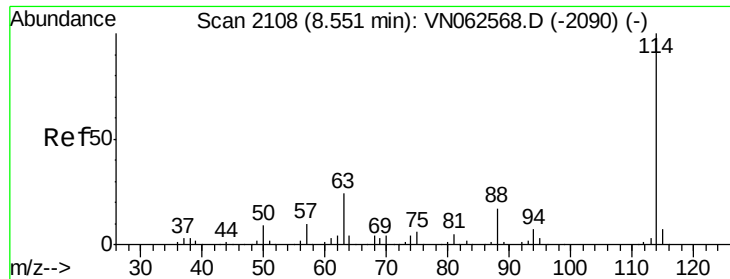
#33
1,2-Dichloroethane-d4
Concen: 54.909 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. -0.00 min
Lab File: VN062704.D
Acq: 31 Jul 2020 23:33

Tgt Ion: 65 Resp: 100402
Ion Ratio Lower Upper
65 100
67 50.3 0.0 106.0



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

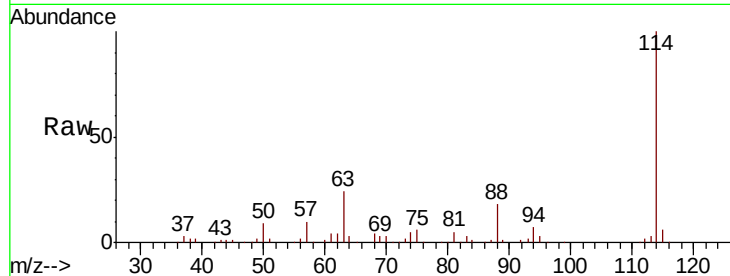




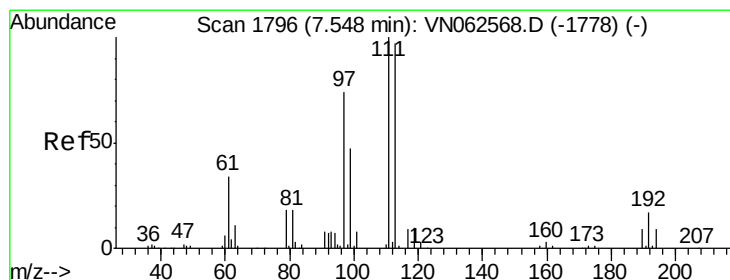
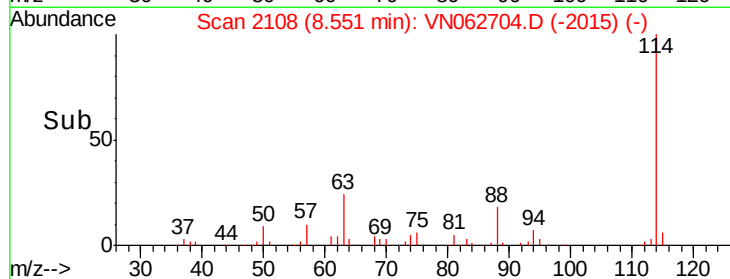
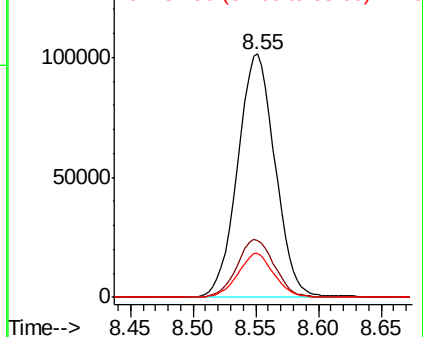
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. -0.00 min
Lab File: VN062704.D
Acq: 31 Jul 2020 23:33

Instrument :
MSVOA_N
ClientSampled :
TP-5

Tot Ion:114 Resp: 210876
Ion Ratio Lower Upper
114 100
63 23.5 0.0 48.4
88 18.1 0.0 33.8

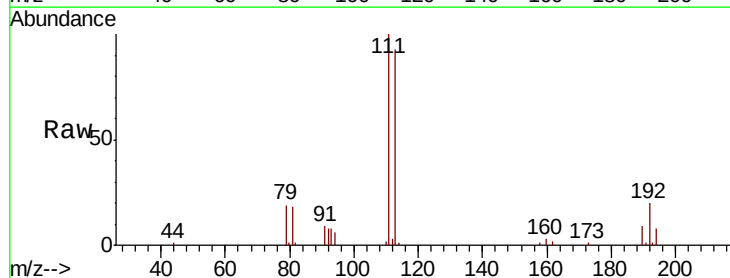


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

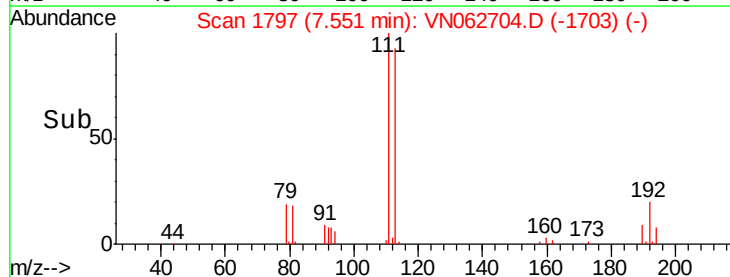
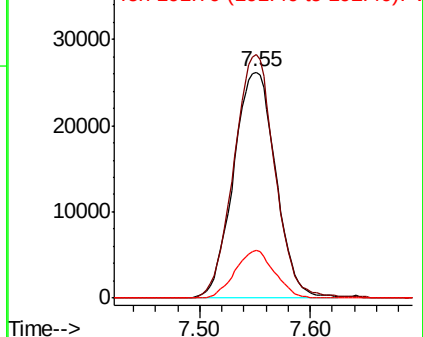


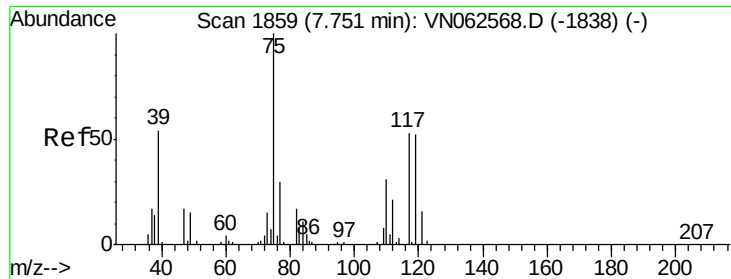
#35
Dibromofluoromethane
Concen: 50.293 ug/l
RT: 7.55 min Scan# 1797
Delta R.T. 0.00 min
Lab File: VN062704.D
Acq: 31 Jul 2020 23:33

Tgt Ion:113 Resp: 69663
Ion Ratio Lower Upper
113 100
111 104.4 82.7 124.1
192 19.5 14.8 22.2



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: 4.750 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.13 min

Lab File: VN062704.D

Acq: 31 Jul 2020 23:33

Instrument :

MSVOA_N

ClientSampled :

TP-5

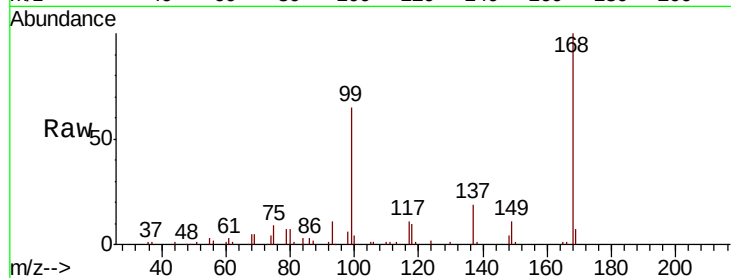
Tot Ion: 75 Resp: 10676

Ion Ratio Lower Upper

75 100

110 8.1 16.0 48.0#

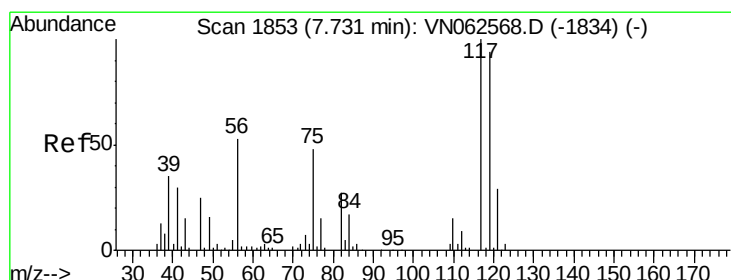
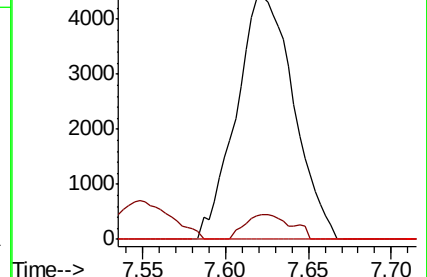
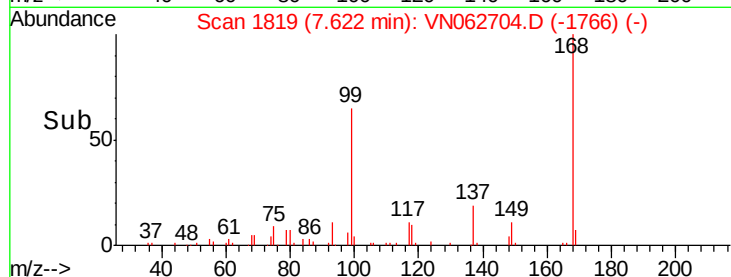
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VN062704.D (-1766) (-)

Ion 109.90 (109.60 to 110.60): VN062704.D (-1766) (-)

Ion 76.90 (76.60 to 77.60): VN062704.D (-1766) (-)



#38

Carbon Tetrachloride

Concen: 5.936 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062704.D

Acq: 31 Jul 2020 23:33

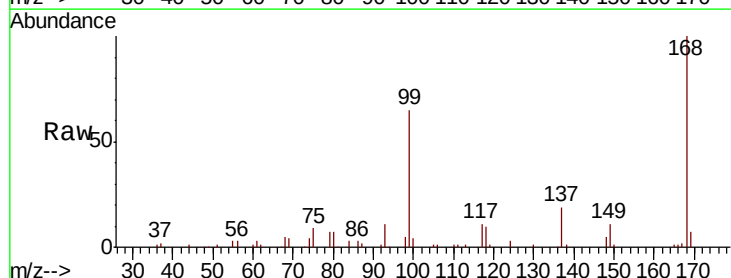
Tgt Ion: 117 Resp: 12825

Ion Ratio Lower Upper

117 100

119 5.3 74.8 112.2#

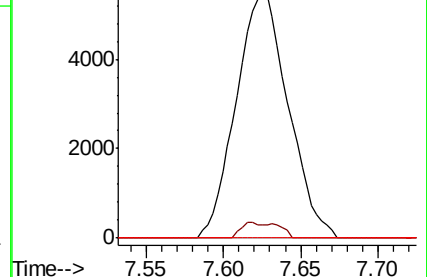
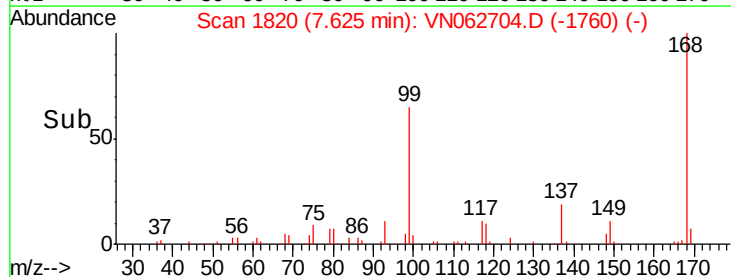
121 0.0 23.0 34.6#

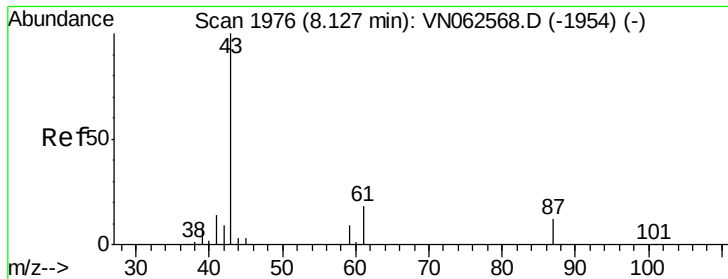


Abundance Ion 116.80 (116.50 to 117.50): VN062704.D (-1760) (-)

Ion 118.80 (118.50 to 119.50): VN062704.D (-1760) (-)

Ion 120.80 (120.50 to 121.50): VN062704.D (-1760) (-)





#43

Isopropyl Acetate

Concen: 1.801 ug/l

RT: 8.27 min Scan# 2019

Delta R.T. 0.14 min

Lab File: VN062704.D

Acq: 31 Jul 2020 23:33

Instrument :

MSVOA_N

ClientSampled :

TP-5

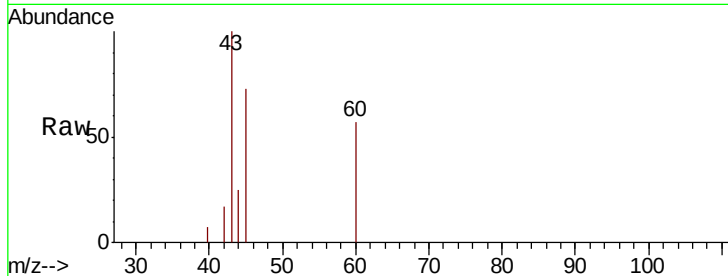
Tot Ion: 43 Resp: 7036

Ion Ratio Lower Upper

43 100

61 0.0 20.8 31.2#

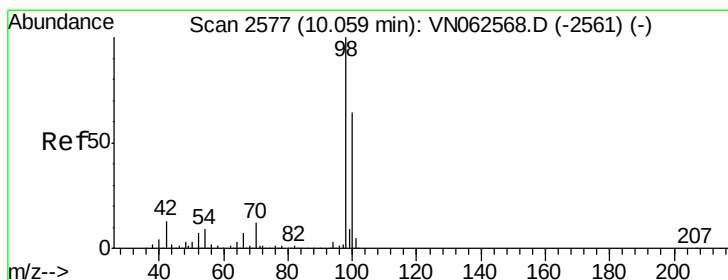
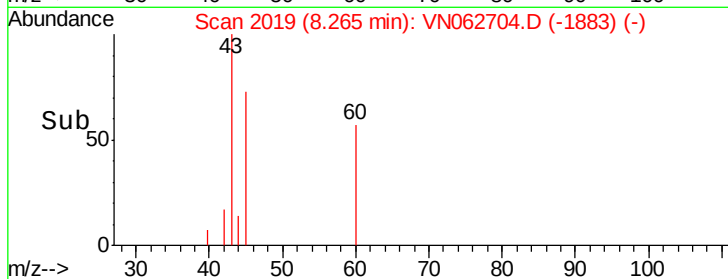
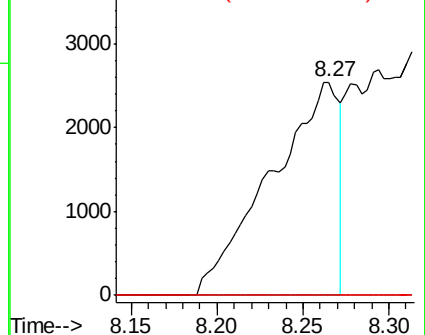
87 0.0 9.2 13.8#



Abundance Ion 43.00 (42.70 to 43.70): VN062704.D (-2019) (-)

Ion 61.00 (60.70 to 61.70): VN062704.D (-2019) (-)

Ion 87.00 (86.70 to 87.70): VN062704.D (-2019) (-)



#50

Toluene-d8

Concen: 48.636 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062704.D

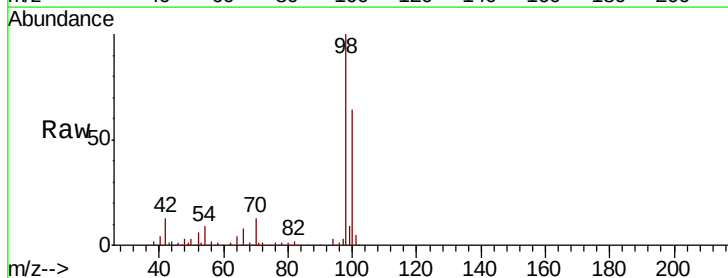
Acq: 31 Jul 2020 23:33

Tgt Ion: 98 Resp: 268796

Ion Ratio Lower Upper

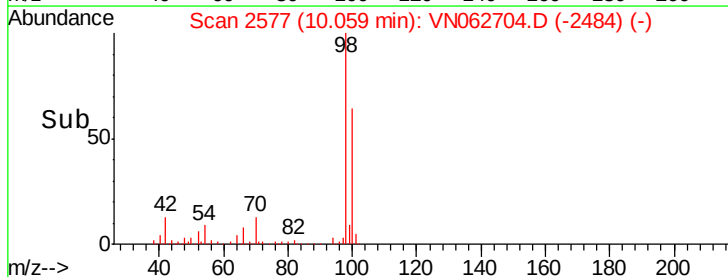
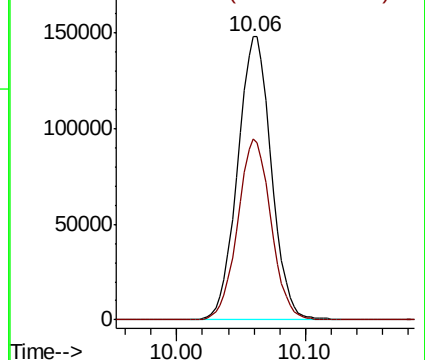
98 100

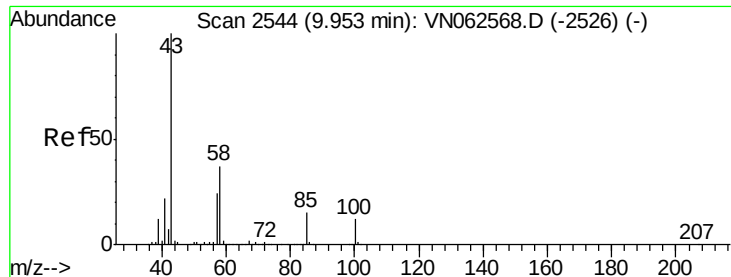
100 63.2 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VN062704.D (-2577) (-)

Ion 100.00 (99.70 to 100.70): VN062704.D (-2577) (-)

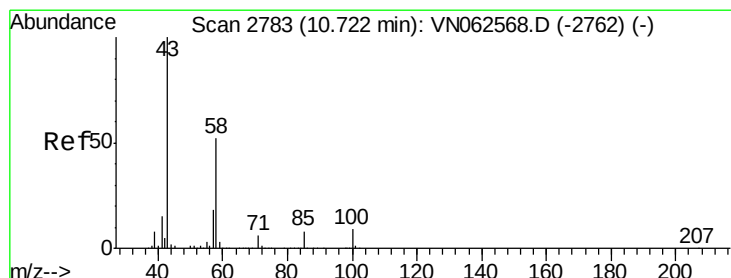
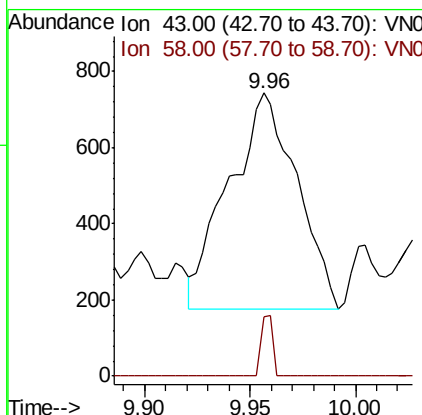
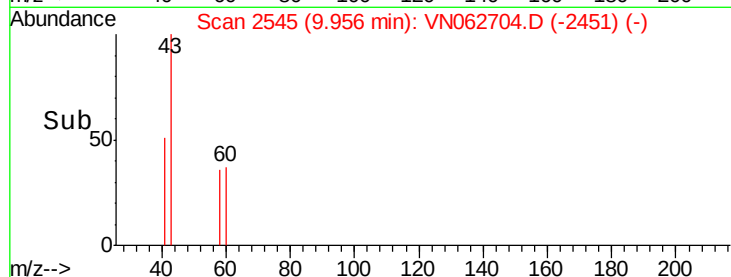
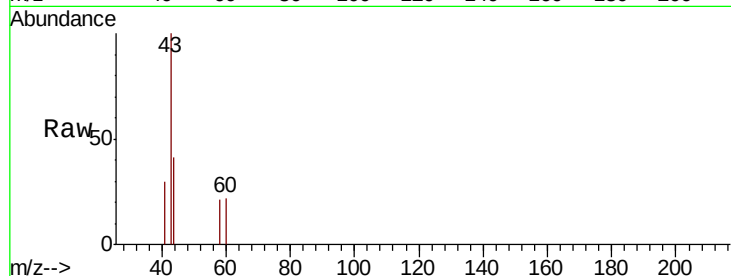




#51
 4-Methyl-2-Pentanone
 Concen: 0.543 ug/l
 RT: 9.96 min Scan# 2545
 Delta R.T. 0.00 min
 Lab File: VN062704.D
 Acq: 31 Jul 2020 23:33

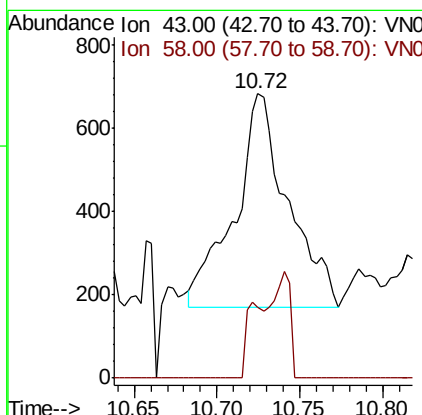
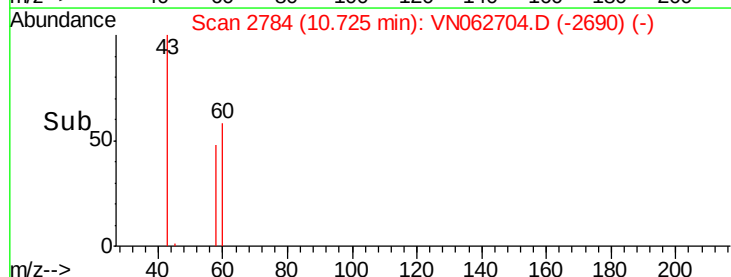
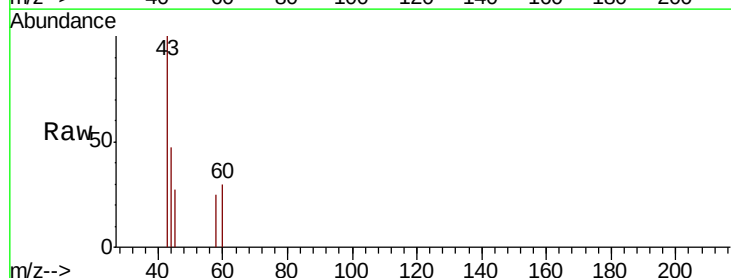
Instrument :
 MSVOA_N
 ClientSampled :
 TP-5

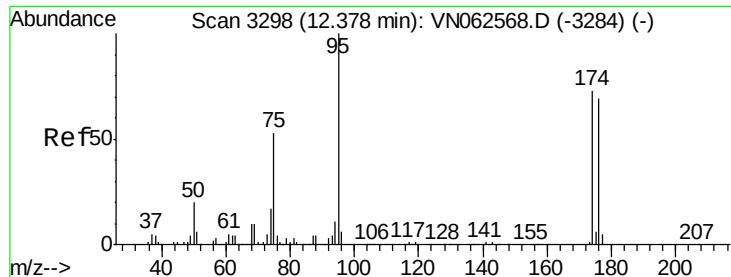
Tot Ion: 43 Resp: 1269
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.8 44.6#



#59
 2-Hexanone
 Concen: 3.585 ug/l
 RT: 10.72 min Scan# 2784
 Delta R.T. 0.00 min
 Lab File: VN062704.D
 Acq: 31 Jul 2020 23:33

Tgt Ion: 43 Resp: 1145
 Ion Ratio Lower Upper
 43 100
 58 11.4 26.0 78.0#

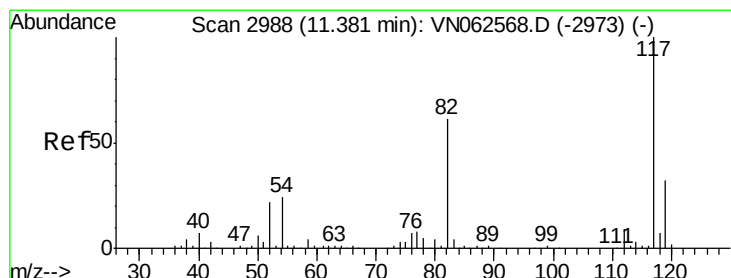
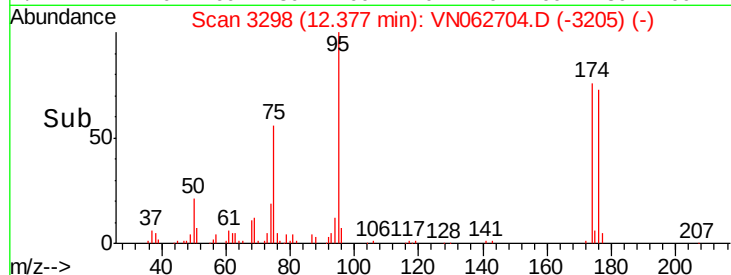
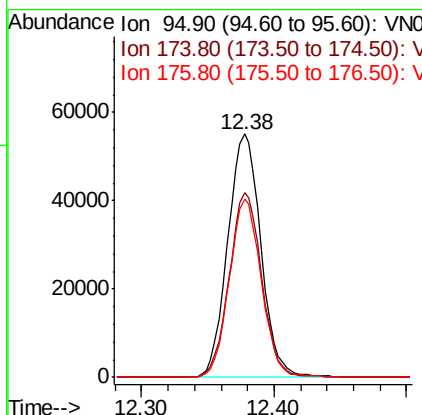
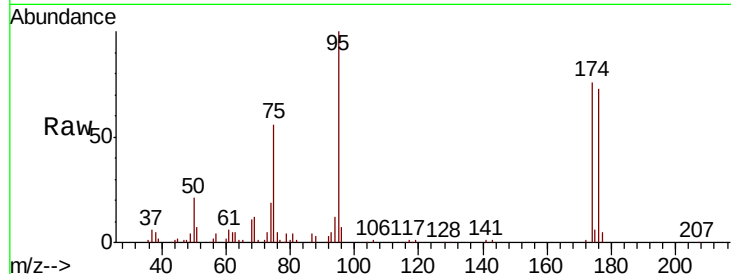




#62
4-Bromofluorobenzene
Concen: 47.316 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062704.D
Acq: 31 Jul 2020 23:33

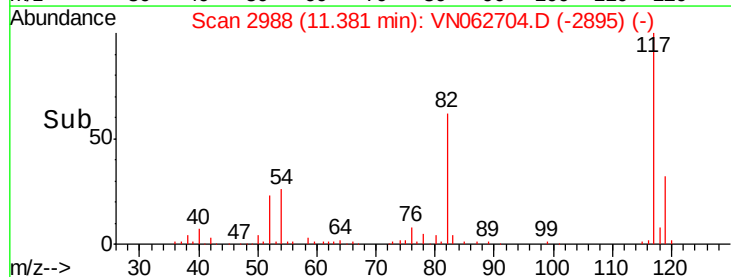
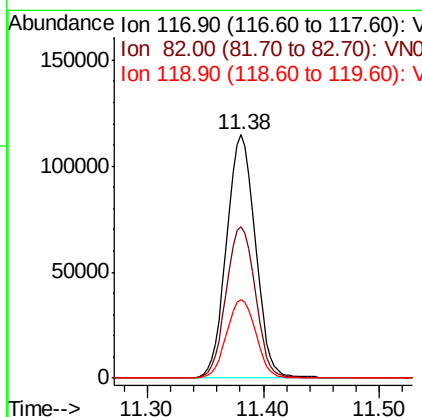
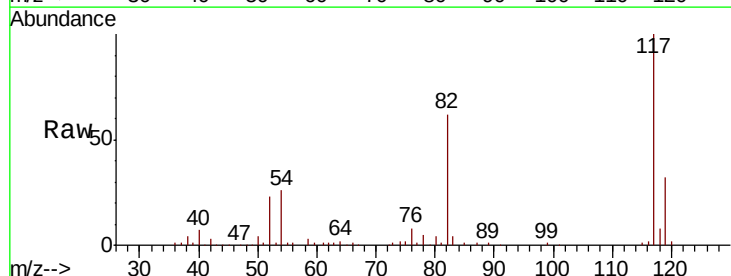
Instrument :
MSVOA_N
ClientSampleId :
TP-5

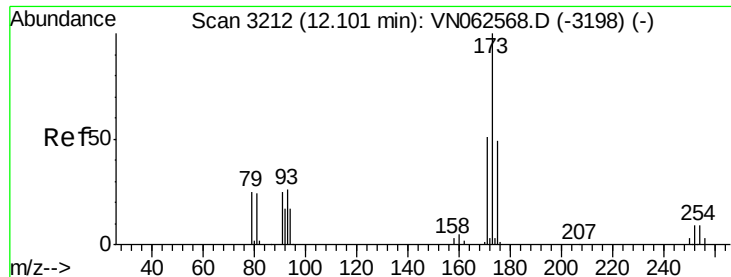
Tot Ion: 95 Resp: 95616
Ion Ratio Lower Upper
95 100
174 74.4 0.0 144.6
176 70.7 0.0 139.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062704.D
Acq: 31 Jul 2020 23:33

Tgt Ion: 117 Resp: 197959
Ion Ratio Lower Upper
117 100
82 62.3 49.0 73.6
119 32.4 25.4 38.2





#71

Bromoform

Concen: 0.219 ug/l

RT: 12.37 min Scan# 3295

Delta R.T. 0.27 min

Lab File: VN062704.D

Acq: 31 Jul 2020 23:33

Instrument :

MSVOA_N

ClientSampled :

TP-5

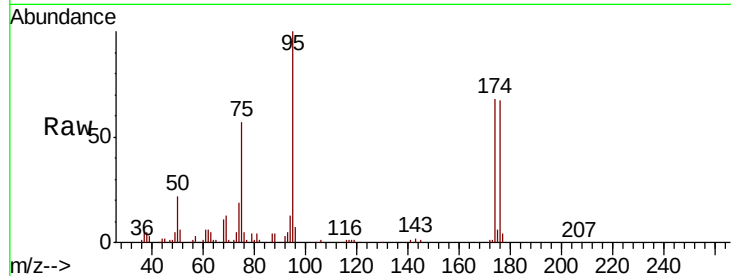
Tot Ion:173 Resp: 257

Ion Ratio Lower Upper

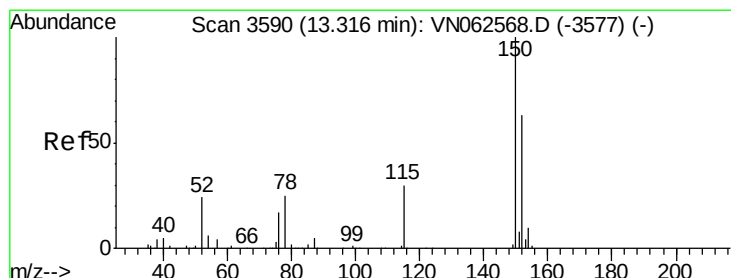
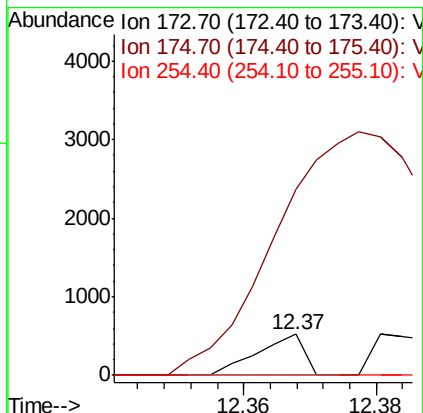
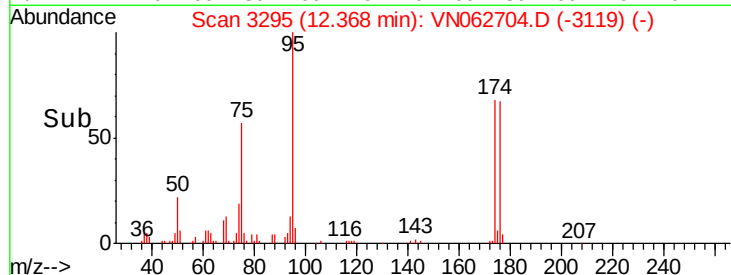
173 100

175 0.0 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: VN062704.D

Acq: 31 Jul 2020 23:33

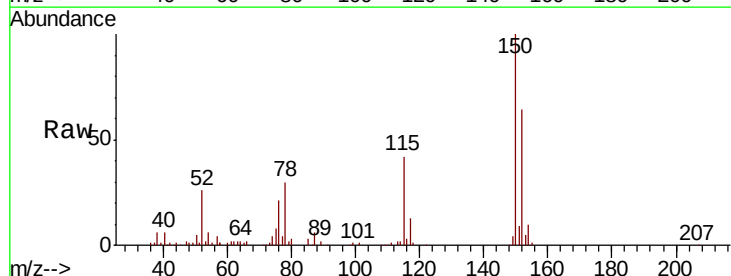
Tgt Ion:152 Resp: 72358

Ion Ratio Lower Upper

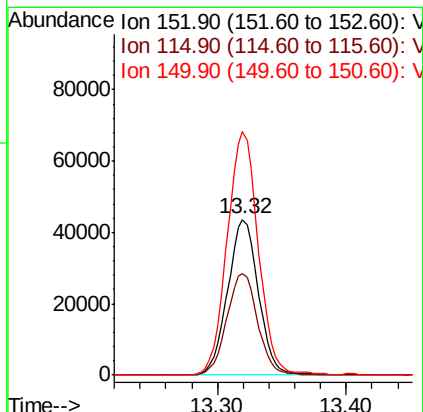
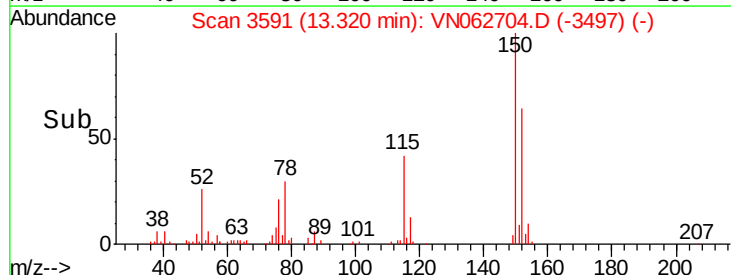
152 100

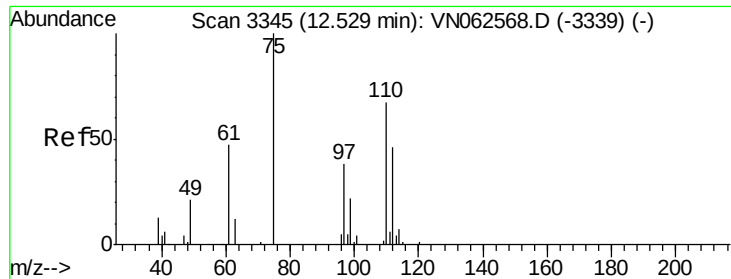
115 65.1 31.8 95.4

150 158.1 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





#76

1,2,3-Trichloropropane

Concen: 28.480 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062704.D

Acq: 31 Jul 2020 23:33

Instrument :

MSVOA_N

ClientSampleId :

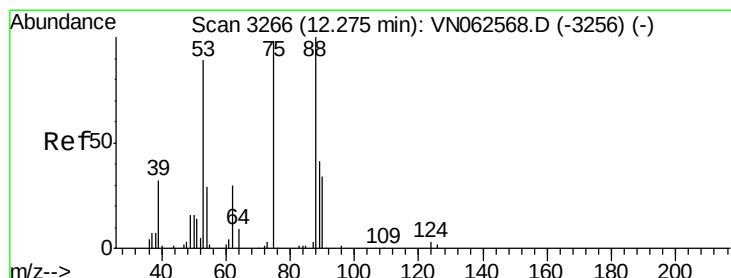
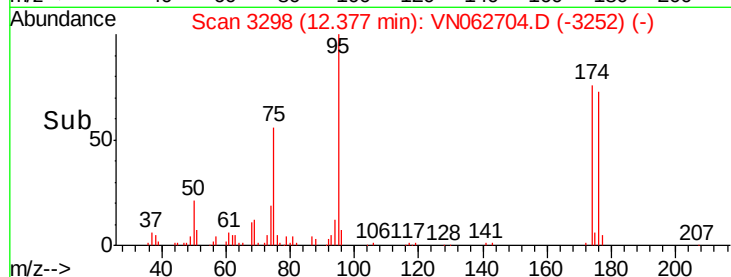
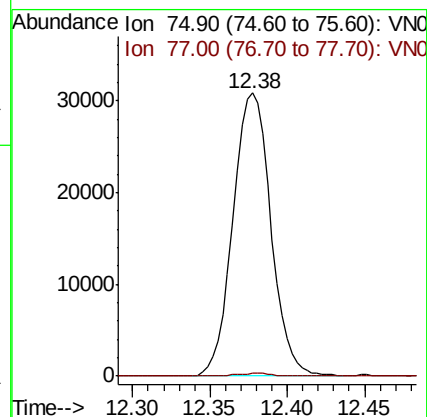
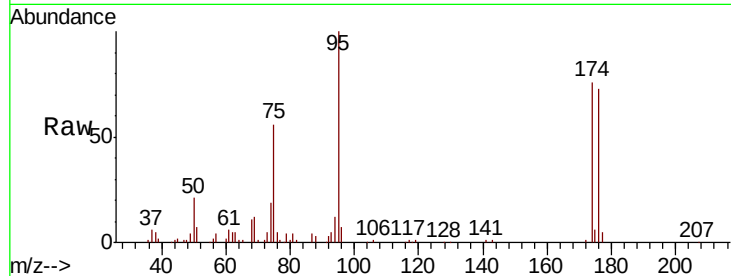
TP-5

Tot Ion: 75 Resp: 52453

Ion Ratio Lower Upper

75 100

77 0.9 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 79.281 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062704.D

Acq: 31 Jul 2020 23:33

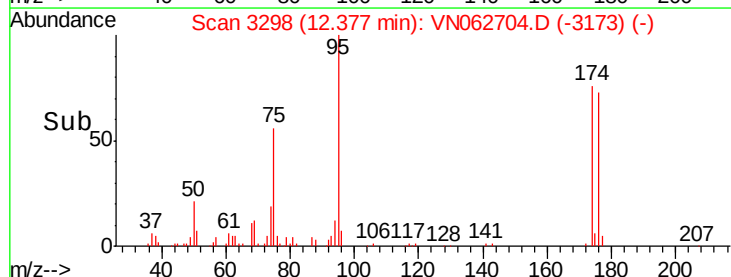
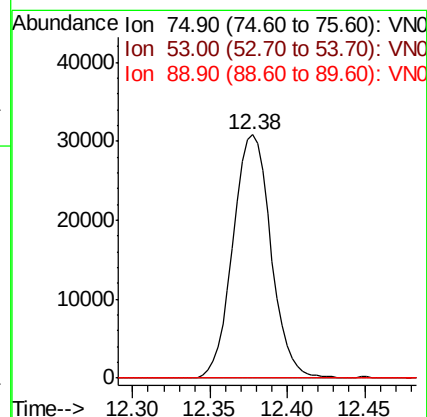
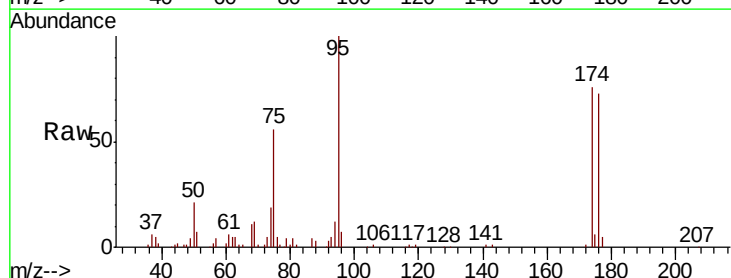
Tgt Ion: 75 Resp: 52453

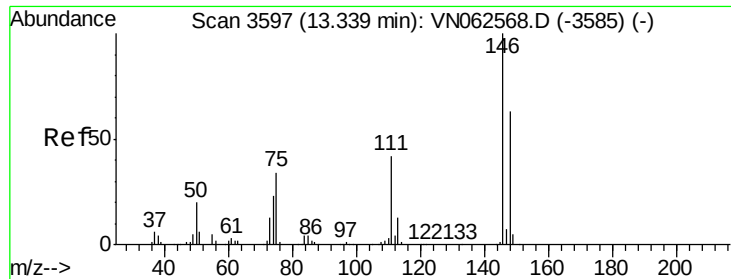
Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

89 0.0 34.5 51.7#

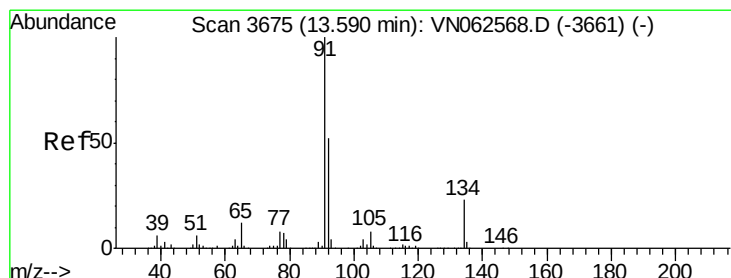
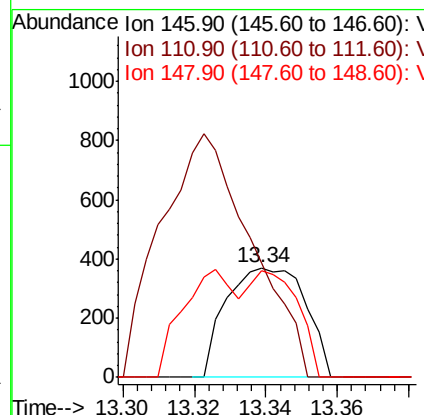
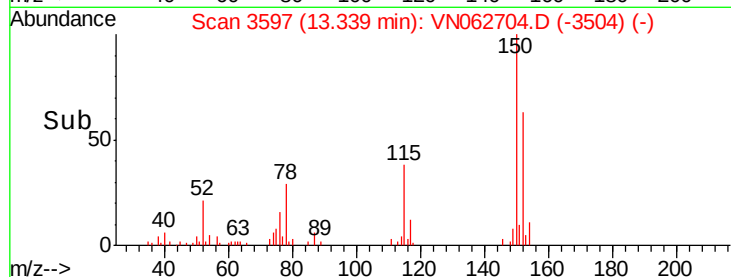
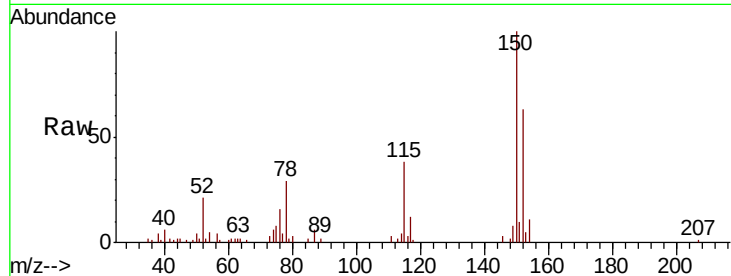




#88
 1,4-Dichlorobenzene
 Concen: 0.238 ug/l
 RT: 13.34 min Scan# 3597
 Delta R.T. -0.00 min
 Lab File: VN062704.D
 Acq: 31 Jul 2020 23:33

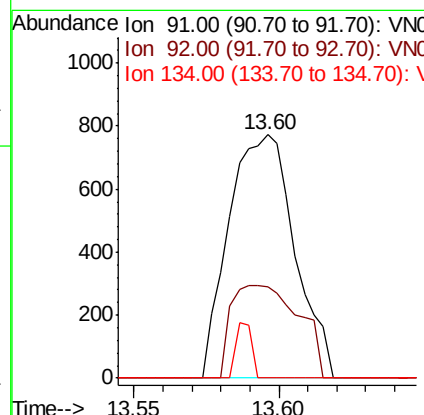
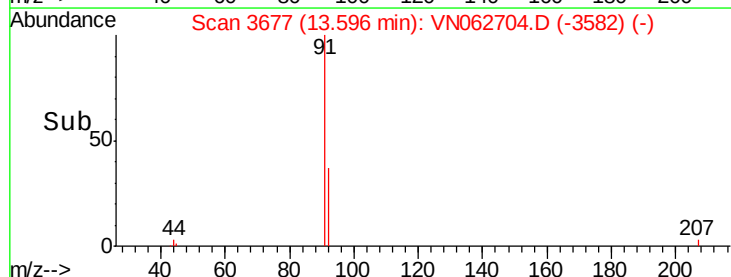
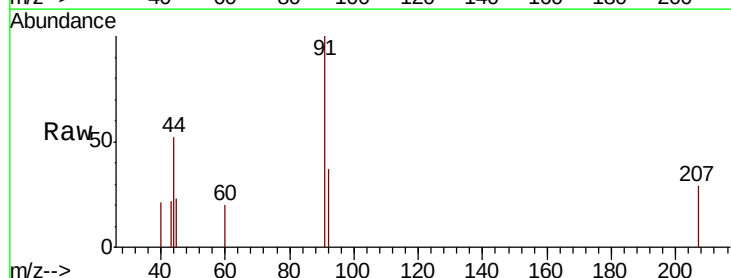
Instrument :
 MSVOA_N
 ClientSampled :
 TP-5

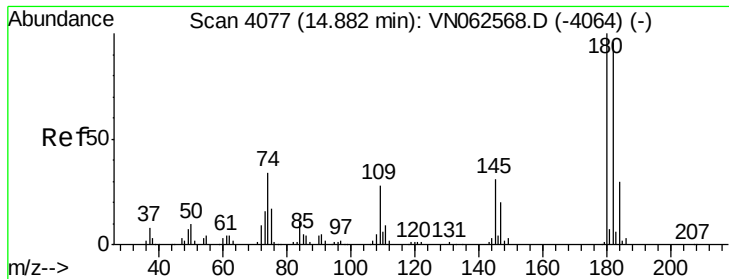
Tot Ion:146 Resp: 566
 Ion Ratio Lower Upper
 146 100
 111 255.1 21.1 63.1#
 148 66.6 31.6 94.8



#89
 n-Butylbenzene
 Concen: 0.313 ug/l
 RT: 13.60 min Scan# 3677
 Delta R.T. 0.01 min
 Lab File: VN062704.D
 Acq: 31 Jul 2020 23:33

Tgt Ion: 91 Resp: 1219
 Ion Ratio Lower Upper
 91 100
 92 39.0 25.8 77.3
 134 5.5 11.8 35.3#

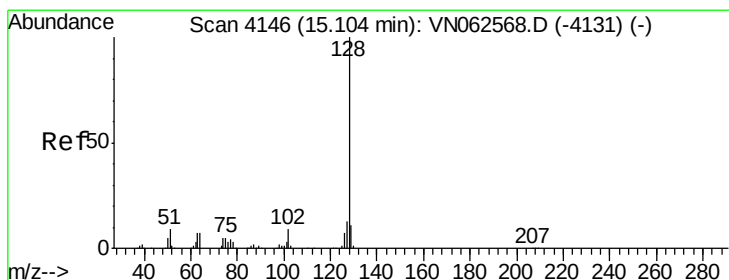
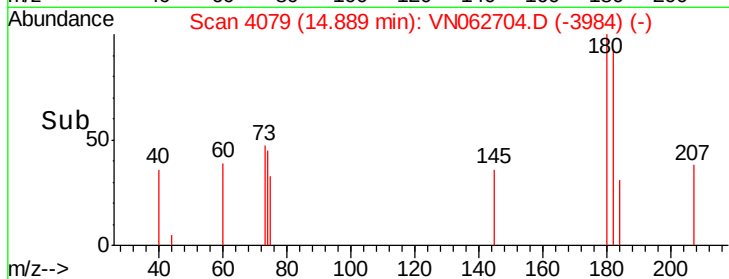
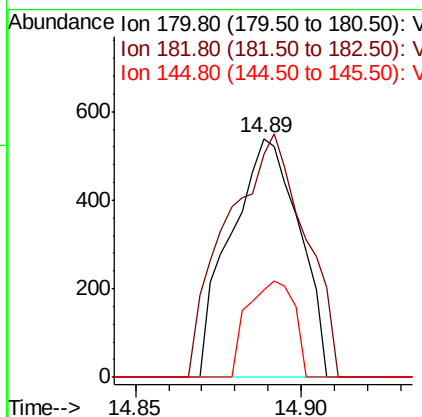
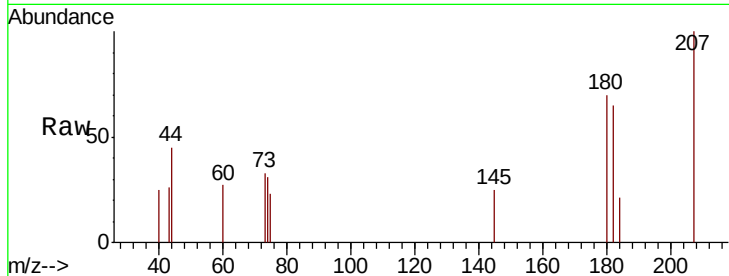




#93
 1,2,4-Trichlorobenzene
 Concen: 3.702 ug/l
 RT: 14.89 min Scan# 4079
 Delta R.T. 0.01 min
 Lab File: VN062704.D
 Acq: 31 Jul 2020 23:33

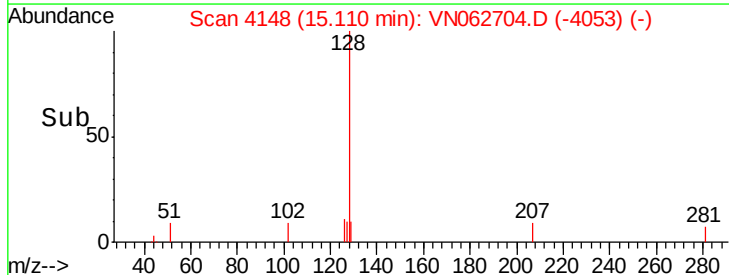
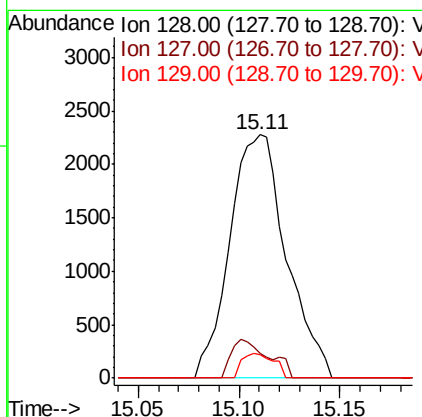
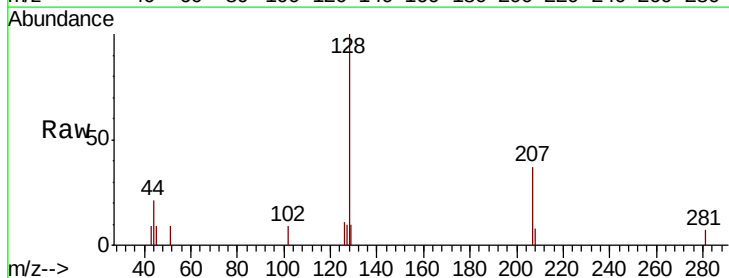
Instrument :
 MSVOA_N
 ClientSampled :
 TP-5

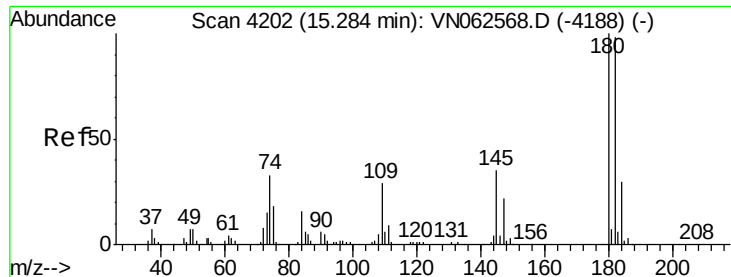
Tot Ion:180 Resp: 773
 Ion Ratio Lower Upper
 180 100
 182 116.6 47.8 143.3
 145 27.4 15.3 45.9



#95
 Naphthalene
 Concen: 5.041 ug/l
 RT: 15.11 min Scan# 4148
 Delta R.T. 0.01 min
 Lab File: VN062704.D
 Acq: 31 Jul 2020 23:33

Tgt Ion:128 Resp: 4453
 Ion Ratio Lower Upper
 128 100
 127 10.7 10.4 15.6
 129 5.8 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.960 ug/l
 RT: 15.29 min Scan# 4204
 Delta R.T. 0.01 min
 Lab File: VN062704.D
 Acq: 31 Jul 2020 23:33

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-5

Tot Ion:180 Resp: 1044
 Ion Ratio Lower Upper
 180 100
 182 92.6 48.1 144.3
 145 22.6 16.7 50.1

