

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091820\
 Data File : VN063471.D
 Acq On : 18 Sep 2020 20:36
 Operator : JC/MD
 Sample : L3952-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 40556

Quant Time: Sep 21 03:07:26 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	240391	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	441493	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	448277	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	233571	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	197440	48.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.50%	
35) Dibromofluoromethane	7.55	113	139452	45.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.26%	
50) Toluene-d8	10.06	98	585498	50.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.90%	
62) 4-Bromofluorobenzene	12.38	95	251588	59.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.44%	

Target Compounds

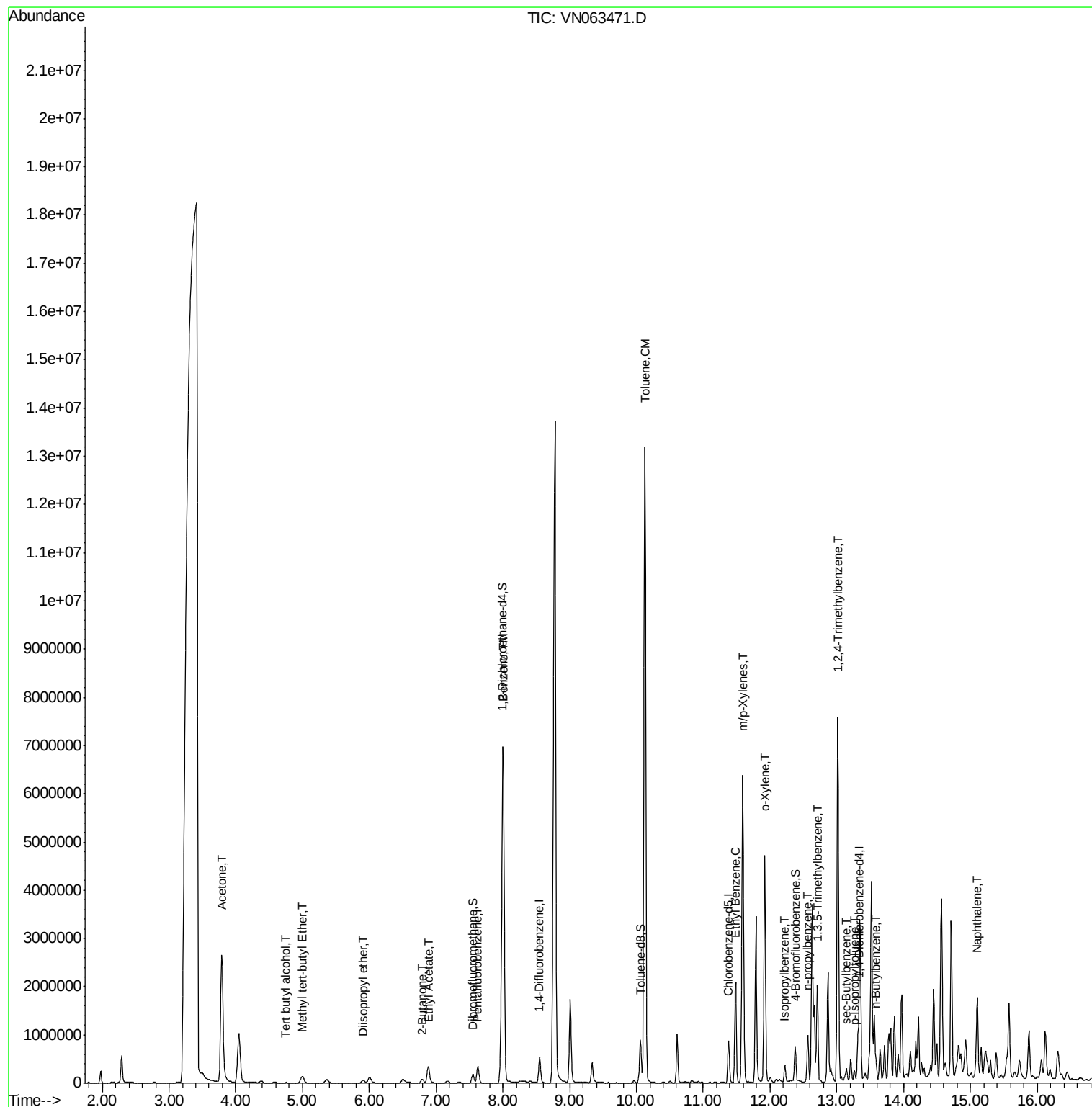
						Qvalue
11) Tert butyl alcohol	4.75	59	14254	25.144	ug/l #	72
16) Acetone	3.79	43	4509185	3428.702	ug/l	98
19) Methyl tert-butyl Ether	4.99	73	220405	21.799	ug/l	99
22) Diisopropyl ether	5.91	45	68153	6.228	ug/l	90
25) 2-Butanone	6.79	43	130620	64.579	ug/l	100
37) Ethyl Acetate	6.88	43	561896	121.721	ug/l	98
40) Benzene	8.00	78	6584693	490.419	ug/l	93
52) Toluene	10.13	92	6331094	784.269	ug/l #	72
67) Ethyl Benzene	11.49	91	1488611	83.071	ug/l	99
68) m/p-Xylenes	11.59	106	1961448	303.583	ug/l	95
69) o-Xylene	11.92	106	1244818	202.252	ug/l	98
73) Isopropylbenzene	12.23	105	220575	11.785	ug/l	100
78) n-propylbenzene	12.57	91	757428	34.744	ug/l	99
80) 1,3,5-Trimethylbenzene	12.71	105	933082	59.784	ug/l	100
84) 1,2,4-Trimethylbenzene	13.02	105	4123463	261.558	ug/l	95
85) sec-Butylbenzene	13.15	105	160636	9.316	ug/l	89
86) p-Isopropyltoluene	13.26	119	102731	6.755	ug/l	99
89) n-Butylbenzene	13.59	91	185788	13.253	ug/l #	76
95) Naphthalene	15.10	128	1321116	88.534	ug/l	100

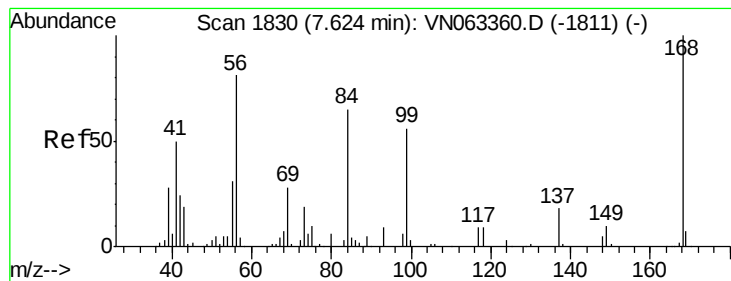
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Sep 16 13:05:20 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063471.D

Acq: 18 Sep 2020 20:36

Instrument :

MSVOA_N

ClientSampleId :

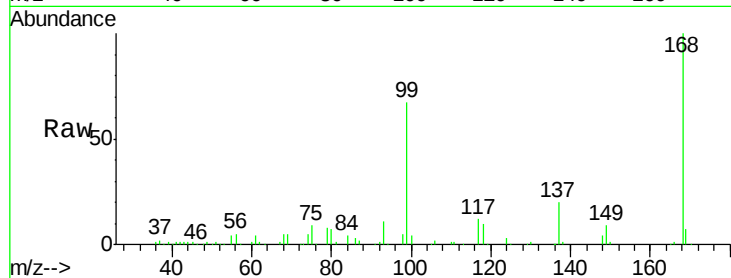
40556

Tot Ion:168 Resp: 240391

Ion Ratio Lower Upper

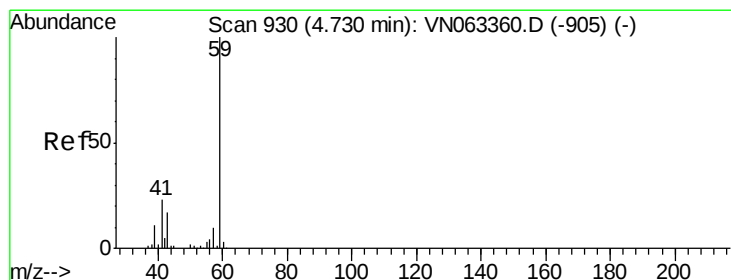
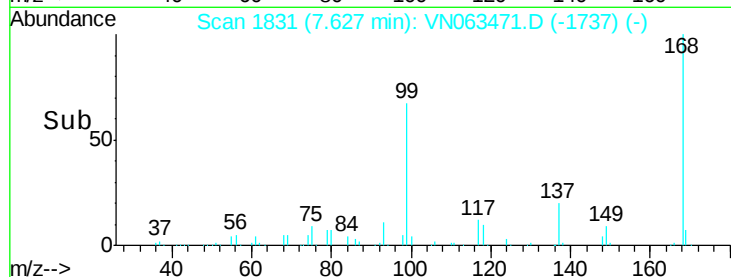
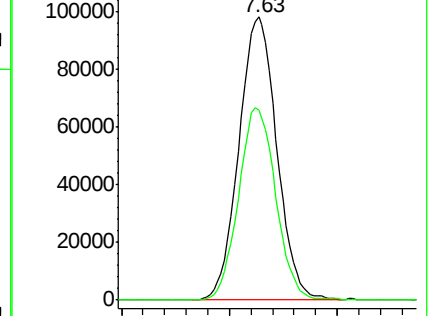
168 100

99 67.0 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 25.144 ug/l

RT: 4.75 min Scan# 937

Delta R.T. 0.02 min

Lab File: VN063471.D

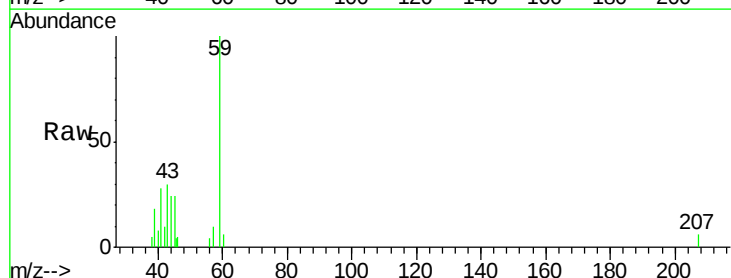
Acq: 18 Sep 2020 20:36

Tgt Ion: 59 Resp: 14254

Ion Ratio Lower Upper

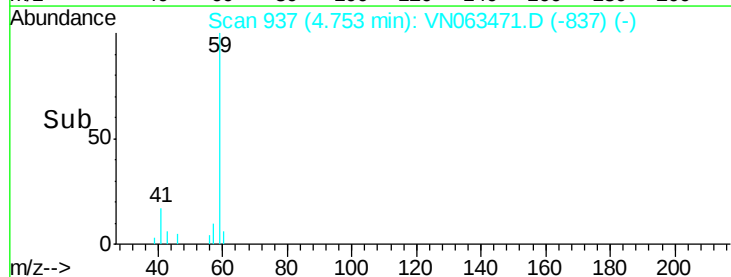
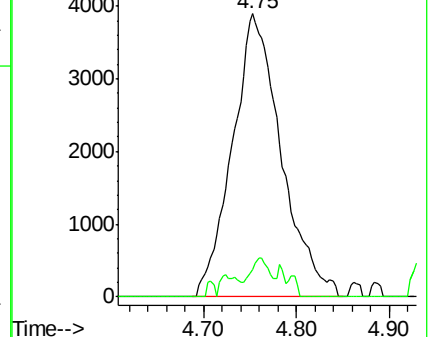
59 100

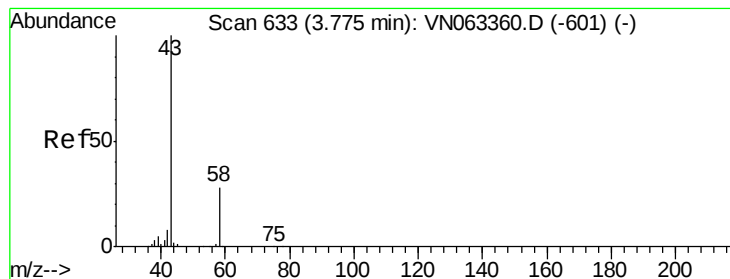
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 3428.702 ug/l

RT: 3.79 min Scan# 638

Delta R.T. 0.02 min

Lab File: VN063471.D

Acq: 18 Sep 2020 20:36

Instrument :

MSVOA_N

ClientSampleId :

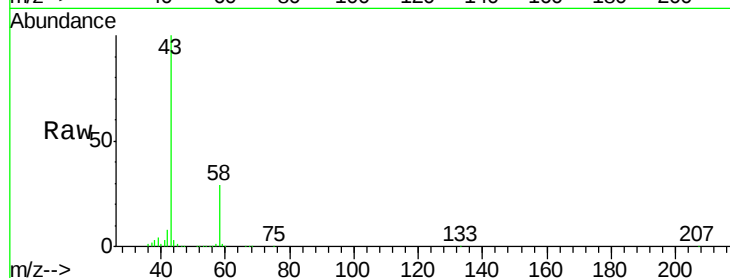
40556

Tot Ion: 43 Resp: 4509185

Ion Ratio Lower Upper

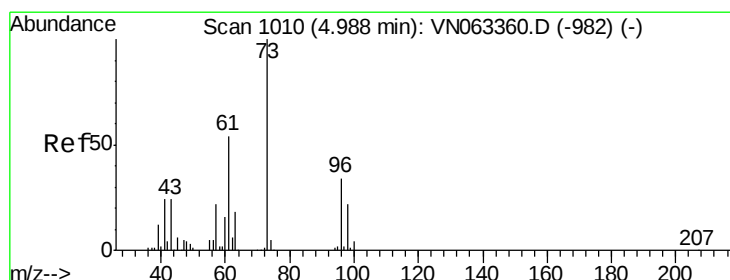
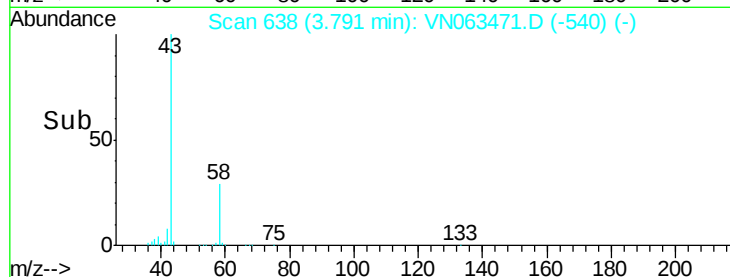
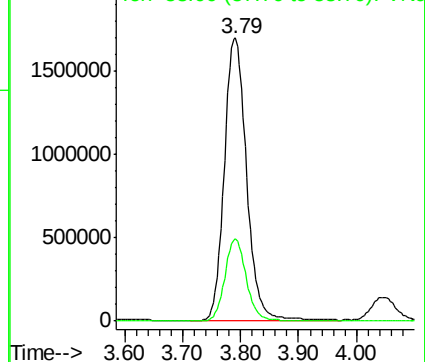
43 100

58 29.0 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#19

Methyl tert-butyl Ether

Concen: 21.799 ug/l

RT: 4.99 min Scan# 1012

Delta R.T. 0.01 min

Lab File: VN063471.D

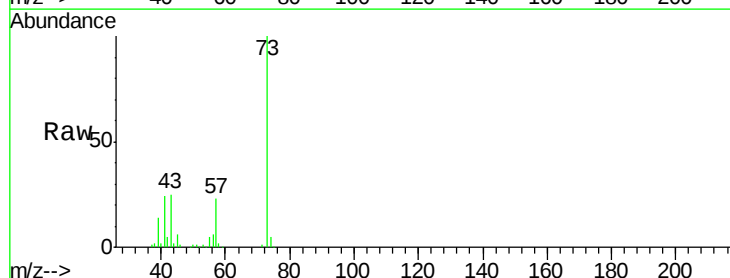
Acq: 18 Sep 2020 20:36

Tgt Ion: 73 Resp: 220405

Ion Ratio Lower Upper

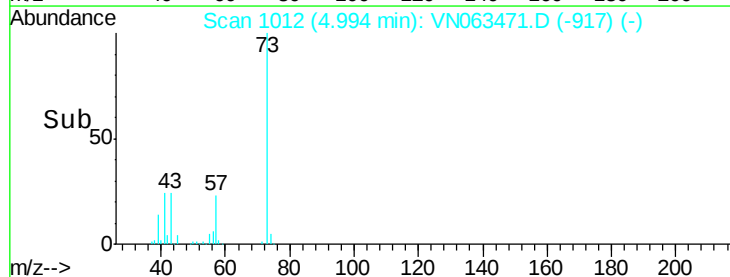
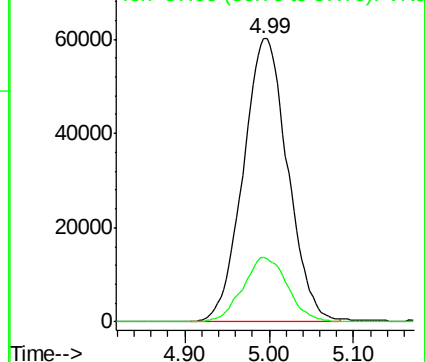
73 100

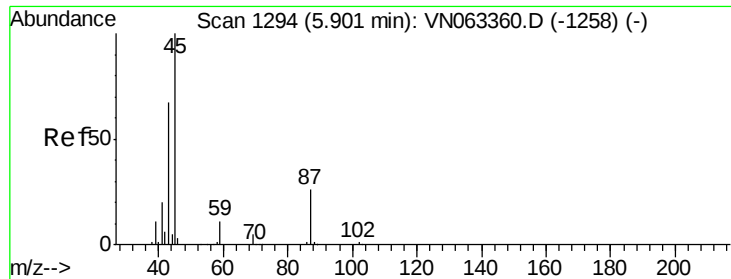
57 22.8 17.9 26.9



Abundance Ion 73.00 (72.70 to 73.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

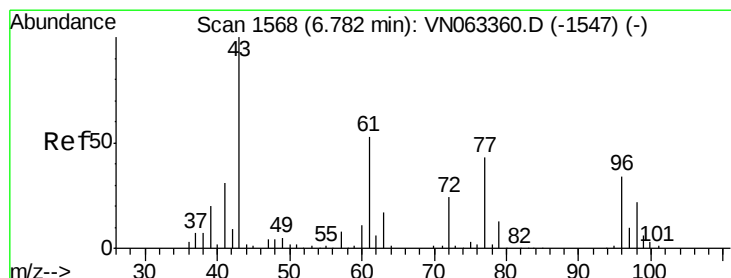
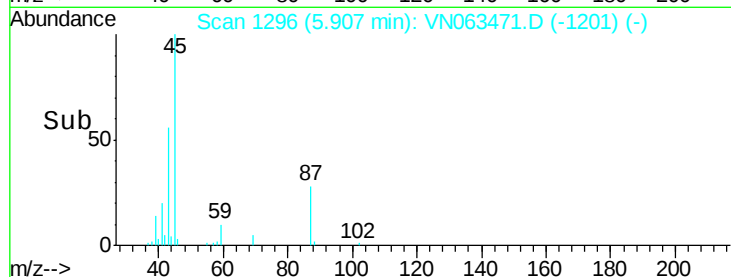
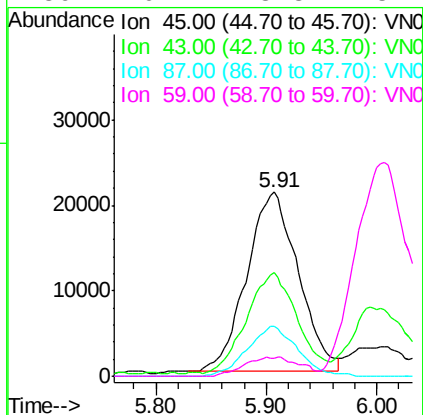
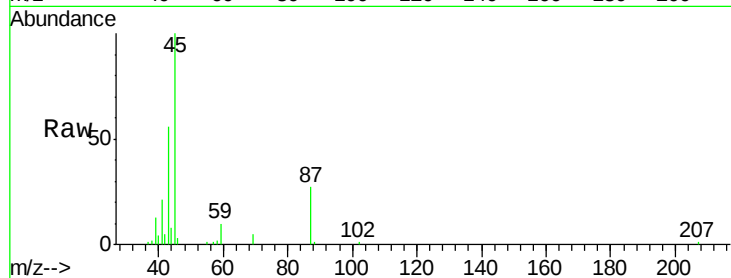




#22
Diisopropyl ether
Concen: 6.228 ug/l
RT: 5.91 min Scan# 1296
Delta R.T. 0.01 min
Lab File: VN063471.D
Acq: 18 Sep 2020 20:36

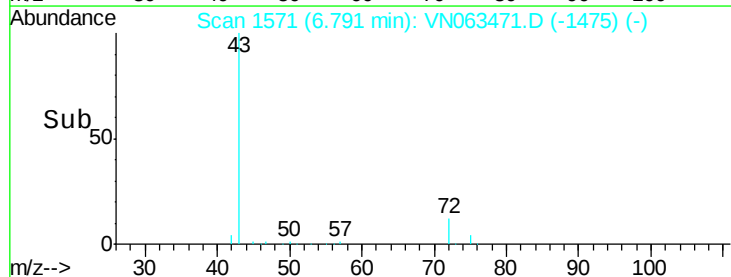
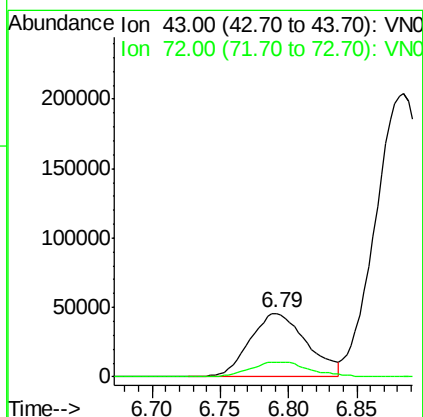
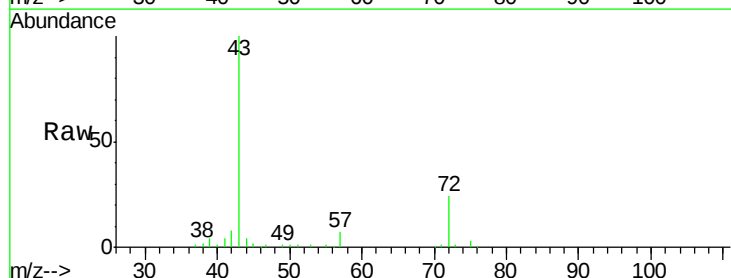
Instrument :
MSVOA_N
ClientSampleId :
40556

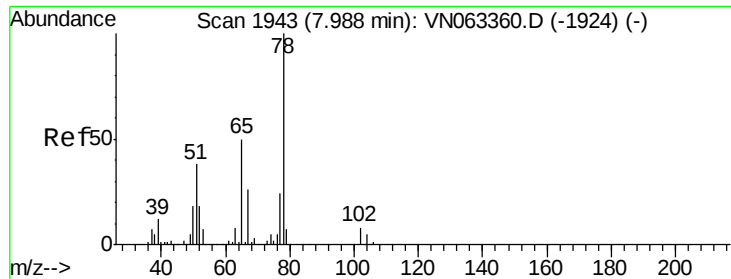
Tot Ion:	45	Resp:	68153
Ion	Ratio	Lower	Upper
45	100		
43	55.6	53.5	80.3
87	28.1	21.2	31.8
59	10.2	8.8	13.2



#25
2-Butanone
Concen: 64.579 ug/l
RT: 6.79 min Scan# 1571
Delta R.T. 0.01 min
Lab File: VN063471.D
Acq: 18 Sep 2020 20:36

Tgt Ion:	43	Resp:	130620
Ion	Ratio	Lower	Upper
43	100		
72	24.0	19.2	28.8

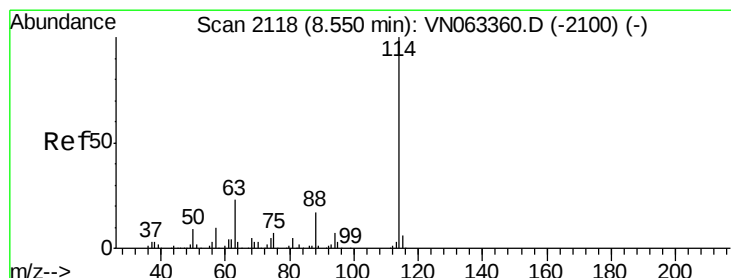
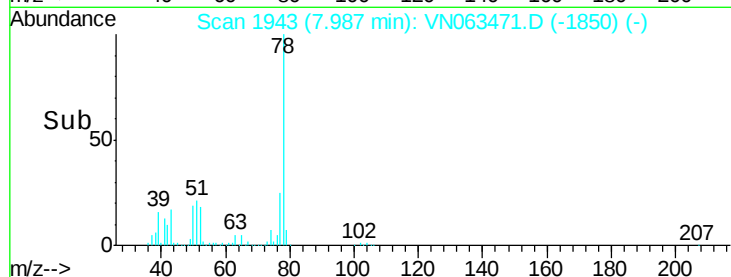
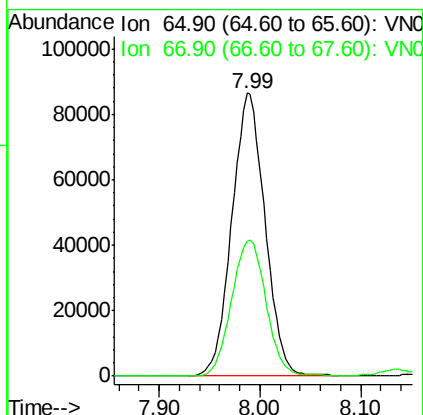
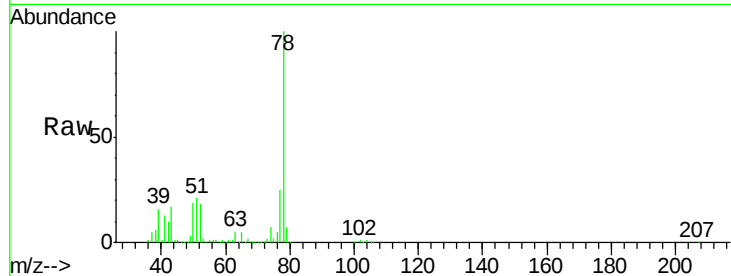




#33
 1,2-Dichloroethane-d4
 Concen: 48.249 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN063471.D
 Acq: 18 Sep 2020 20:36

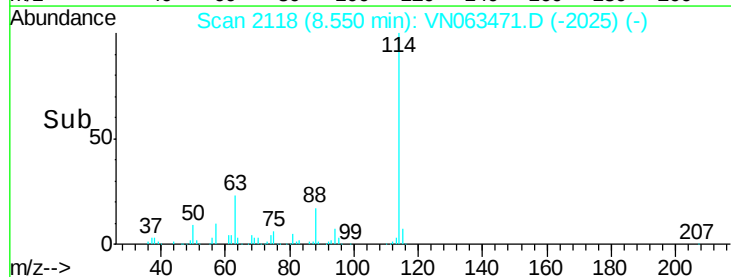
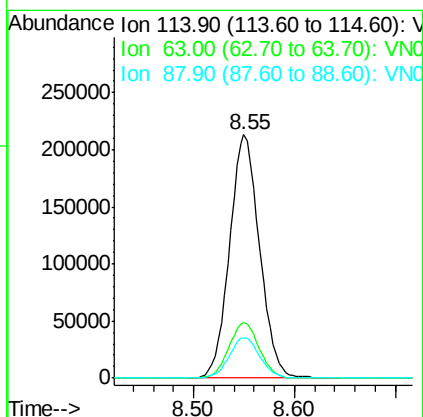
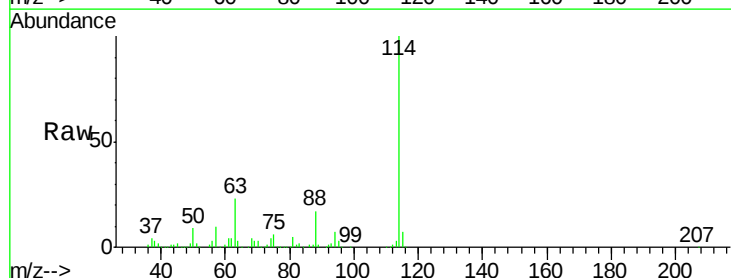
Instrument :
 MSVOA_N
 ClientSampleId :
 40556

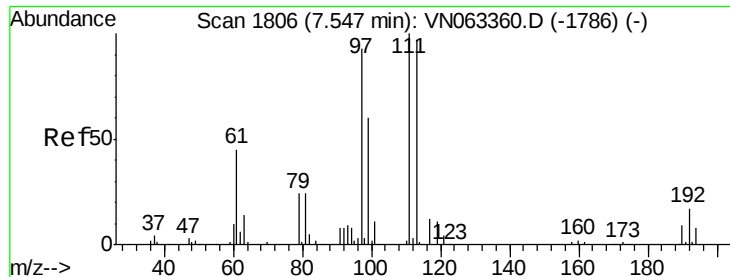
Tot Ion: 65 Resp: 197440
 Ion Ratio Lower Upper
 65 100
 67 50.0 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063471.D
 Acq: 18 Sep 2020 20:36

Tgt Ion: 114 Resp: 441493
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 46.4
 88 16.7 0.0 33.2

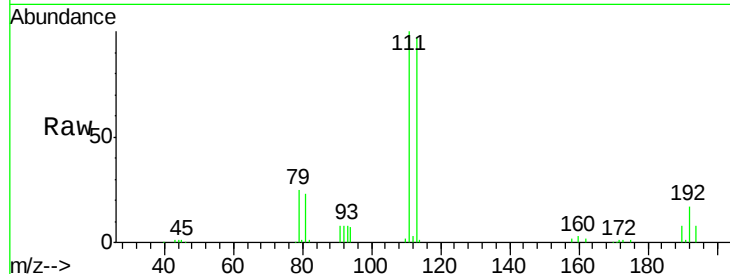




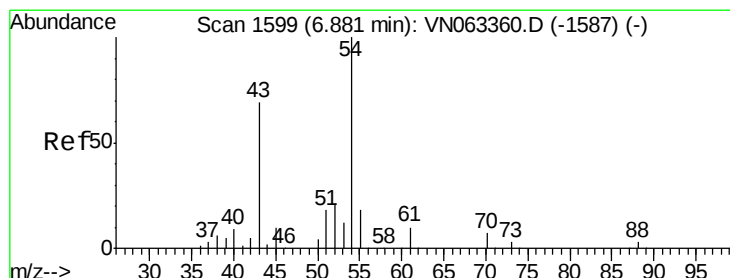
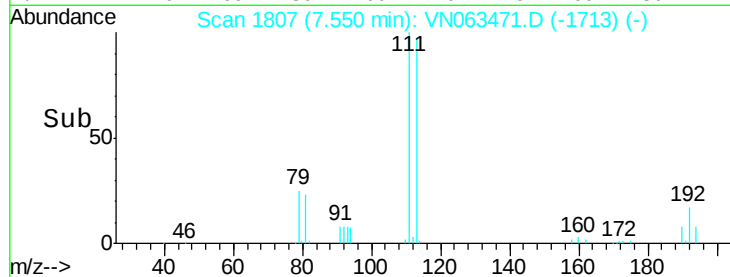
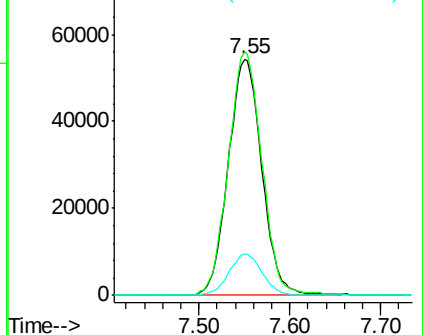
#35
Dibromofluoromethane
Concen: 45.627 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN063471.D
Acq: 18 Sep 2020 20:36

Instrument :
MSVOA_N
ClientSampleId :
40556

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.9	124.3
192	17.3	13.9	20.9

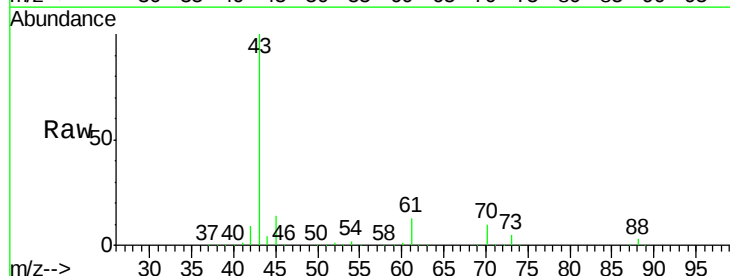


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

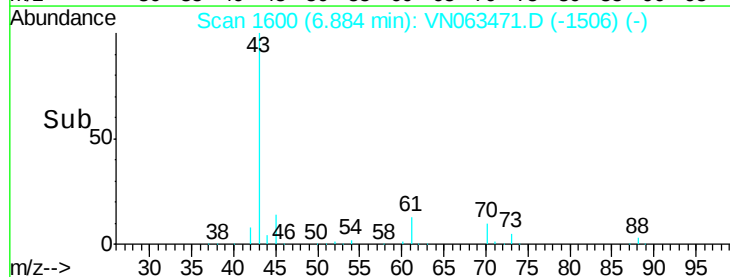
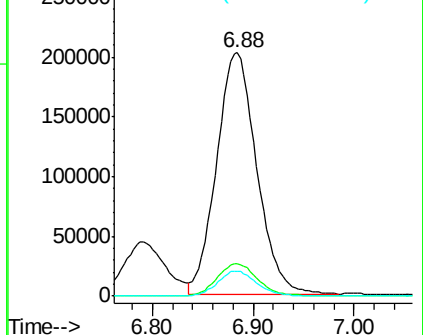


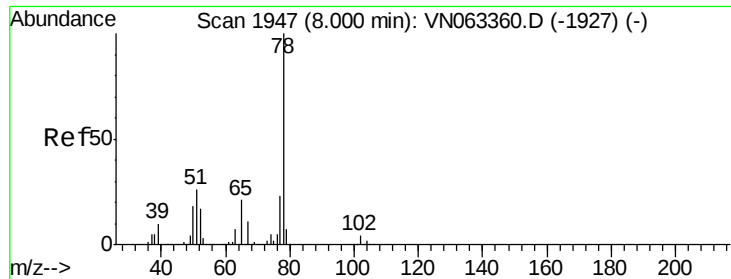
#37
Ethyl Acetate
Concen: 121.721 ug/l
RT: 6.88 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VN063471.D
Acq: 18 Sep 2020 20:36

Tgt Ion	Ratio	Lower	Upper
43	100		
61	13.5	10.6	15.8
70	10.2	7.2	10.8



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 70.00 (69.70 to 70.70): VNO





#40

Benzene

Concen: 490.419 ug/l

RT: 8.00 min Scan# 1948

Delta R.T. 0.00 min

Lab File: VN063471.D

Acq: 18 Sep 2020 20:36

Instrument :

MSVOA_N

ClientSampleId :

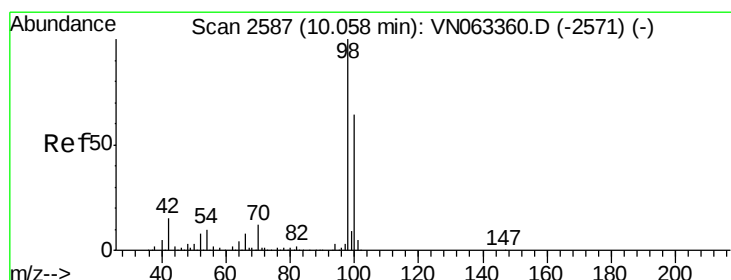
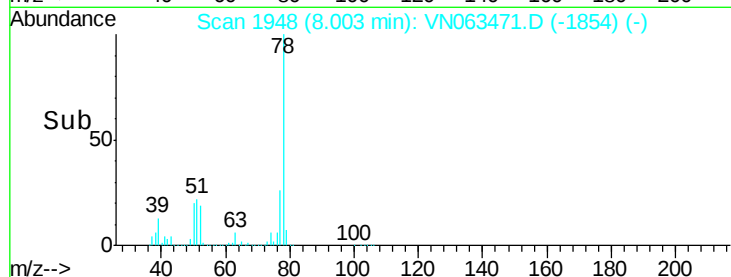
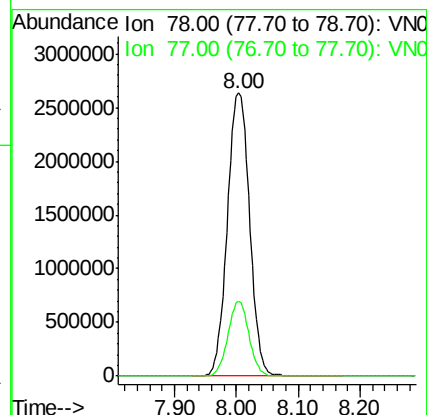
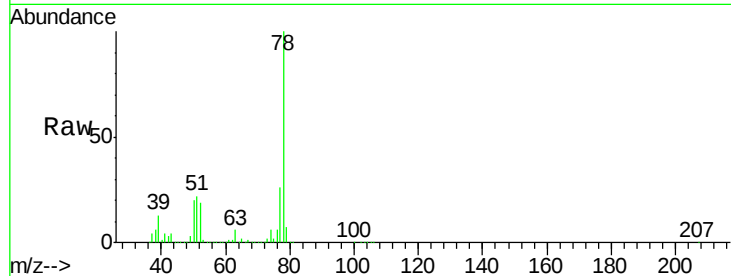
40556

Tot Ion: 78 Resp: 6584693

Ion Ratio Lower Upper

78 100

77 26.4 18.3 27.5



#50

Toluene-d8

Concen: 50.946 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063471.D

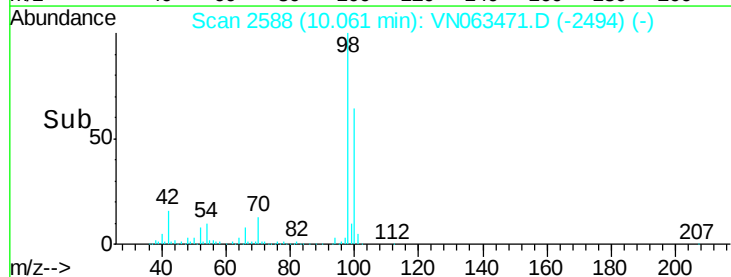
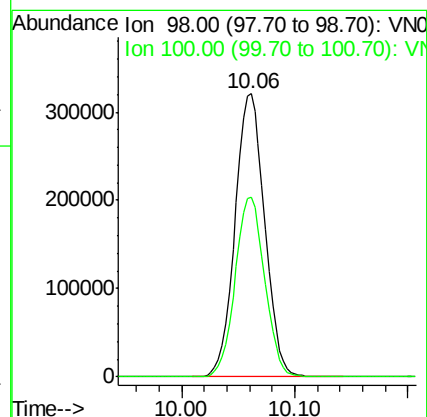
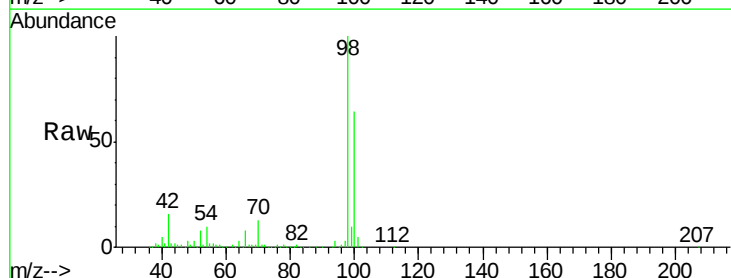
Acq: 18 Sep 2020 20:36

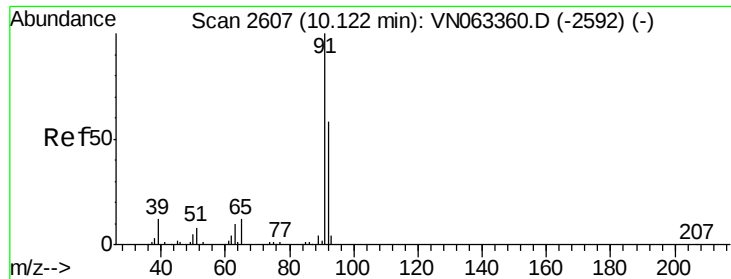
Tgt Ion: 98 Resp: 585498

Ion Ratio Lower Upper

98 100

100 63.2 50.7 76.1





#52

Toluene

Concen: 784.269 ug/l

RT: 10.13 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN063471.D

Acq: 18 Sep 2020 20:36

Instrument :

MSVOA_N

ClientSampleId :

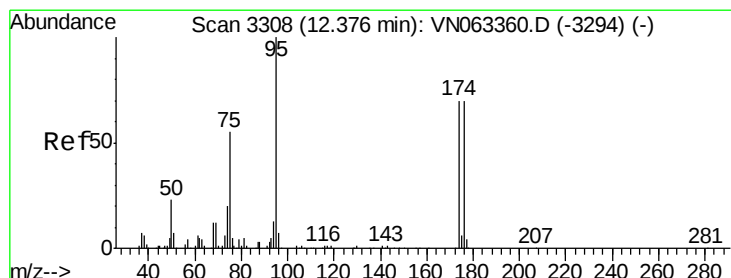
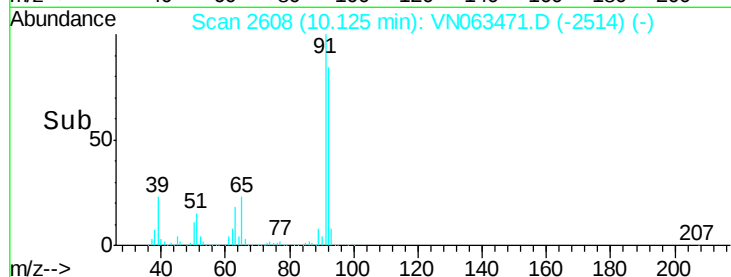
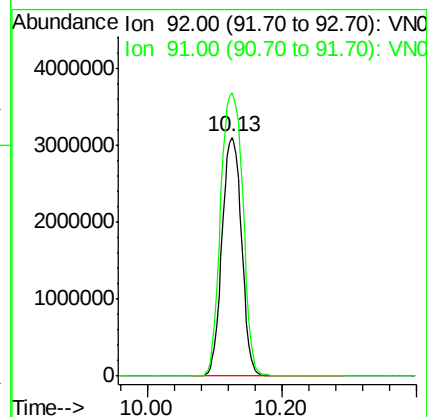
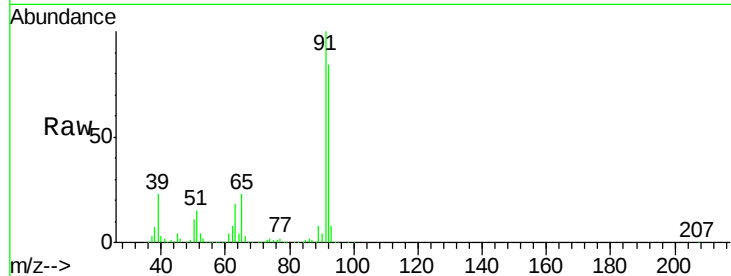
40556

Tot Ion: 92 Resp: 6331094

Ion Ratio Lower Upper

92 100

91 135.0 139.7 209.5#



#62

4-Bromofluorobenzene

Concen: 59.718 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063471.D

Acq: 18 Sep 2020 20:36

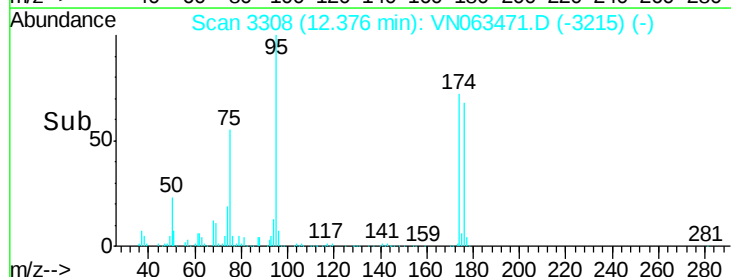
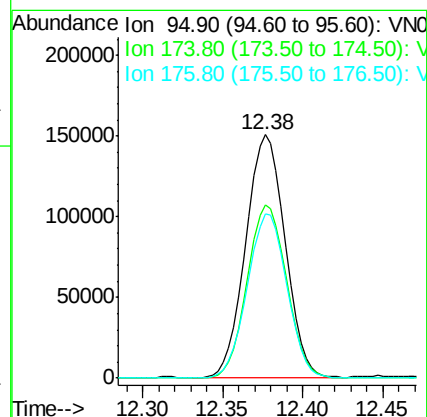
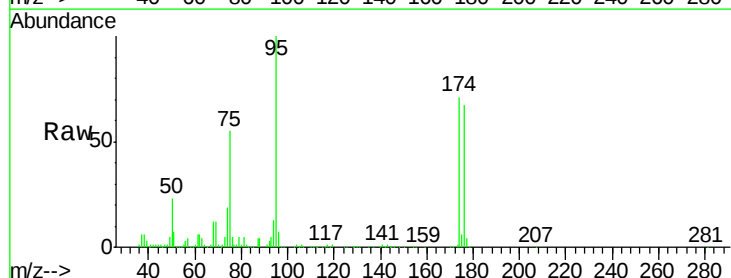
Tgt Ion: 95 Resp: 251588

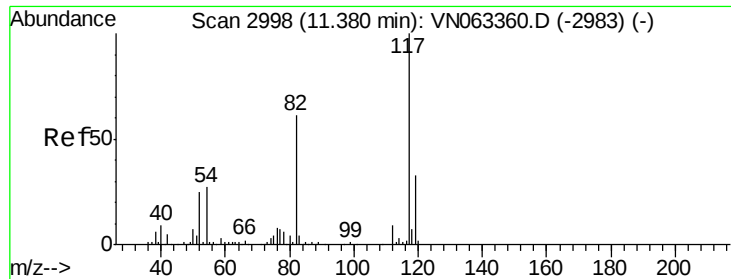
Ion Ratio Lower Upper

95 100

174 72.0 0.0 140.8

176 68.6 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: VN063471.D

Acq: 18 Sep 2020 20:36

Instrument :

MSVOA_N

ClientSampled :

40556

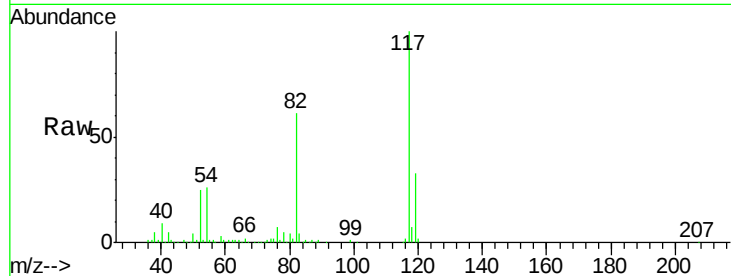
Tot Ion:117 Resp: 448277

Ion Ratio Lower Upper

117 100

82 60.6 49.2 73.8

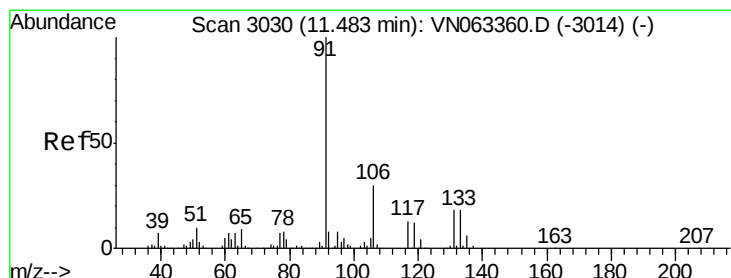
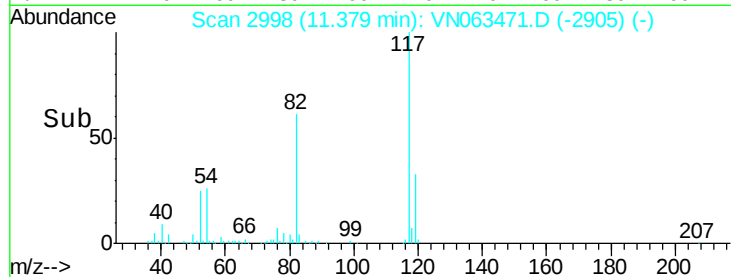
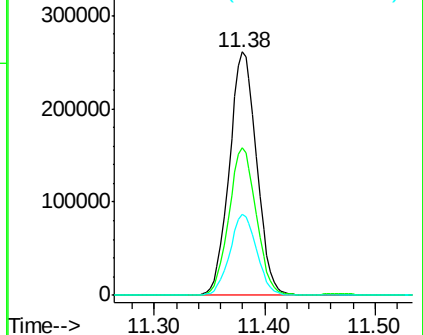
119 33.1 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#67

Ethyl Benzene

Concen: 83.071 ug/l

RT: 11.49 min Scan# 3031

Delta R.T. 0.00 min

Lab File: VN063471.D

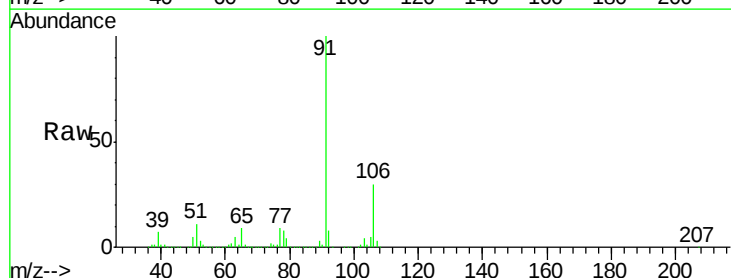
Acq: 18 Sep 2020 20:36

Tgt Ion: 91 Resp: 1488611

Ion Ratio Lower Upper

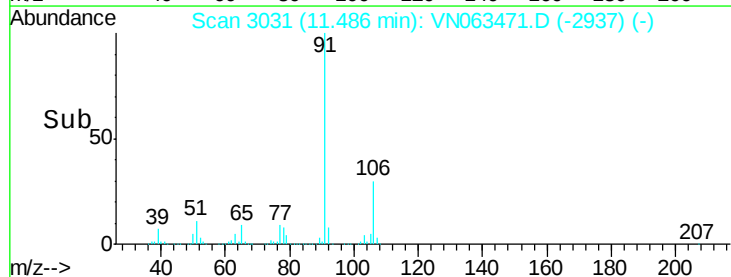
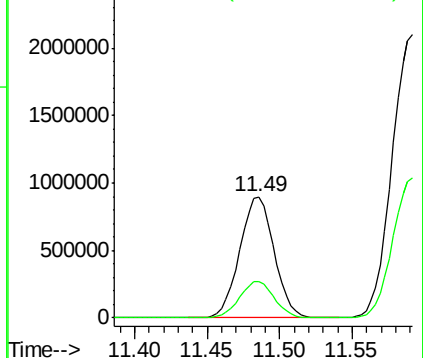
91 100

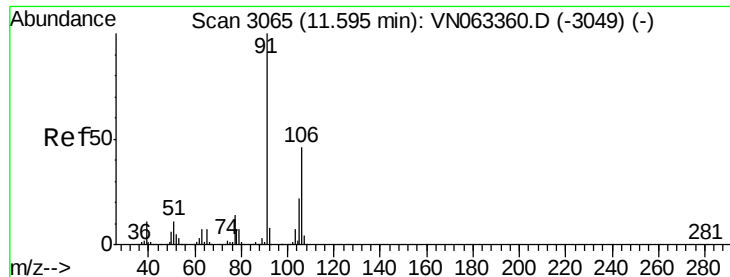
106 30.1 23.8 35.6



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 303.583 ug/l

RT: 11.59 min Scan# 3064

Delta R.T. -0.00 min

Lab File: VN063471.D

Acq: 18 Sep 2020 20:36

Instrument :

MSVOA_N

ClientSampled :

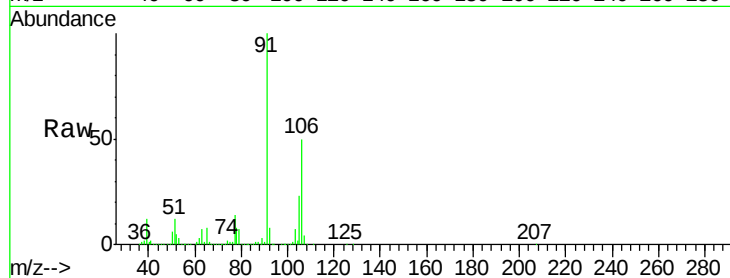
40556

Tot Ion:106 Resp: 1961448

Ion Ratio Lower Upper

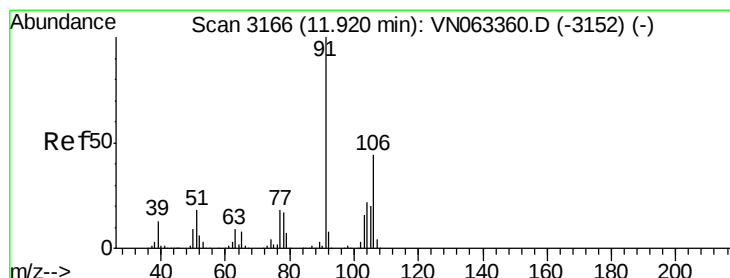
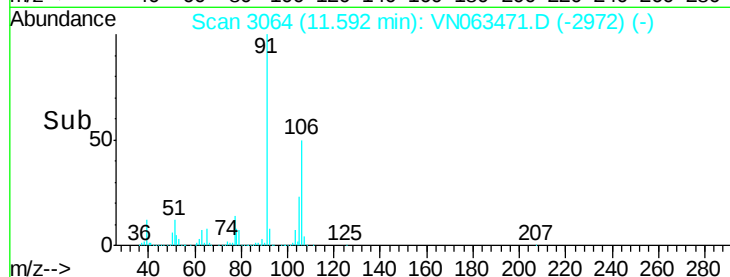
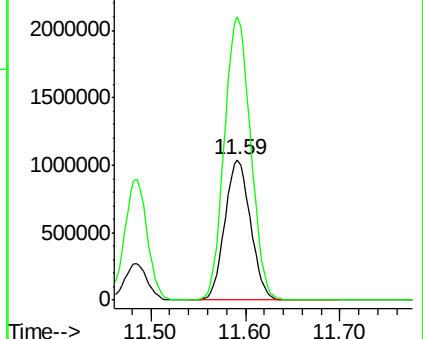
106 100

91 206.2 171.2 256.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#69

o-Xylene

Concen: 202.252 ug/l

RT: 11.92 min Scan# 3167

Delta R.T. 0.00 min

Lab File: VN063471.D

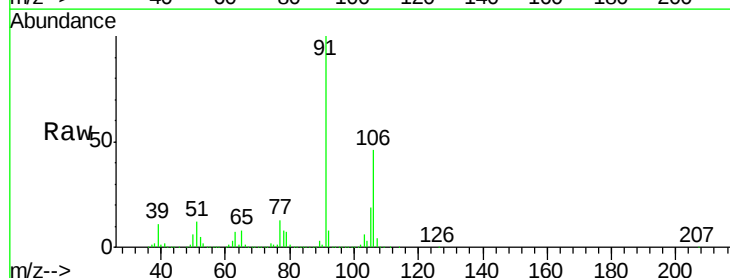
Acq: 18 Sep 2020 20:36

Tgt Ion:106 Resp: 1244818

Ion Ratio Lower Upper

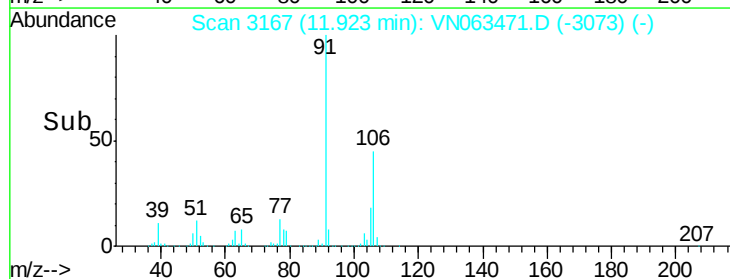
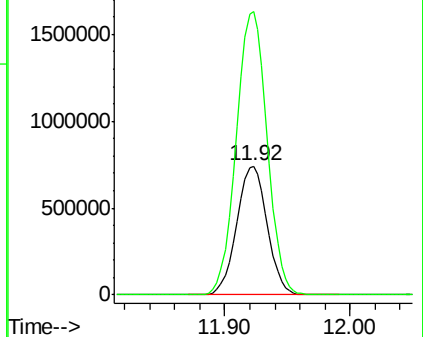
106 100

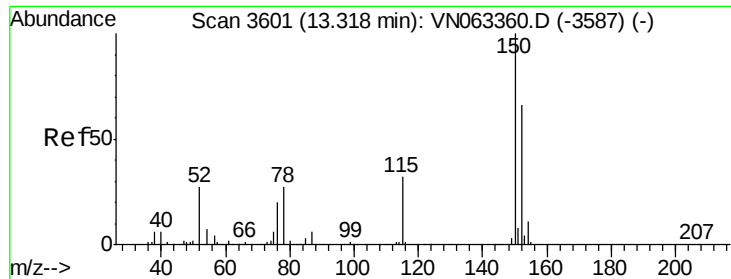
91 223.3 113.6 340.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063471.D

Acq: 18 Sep 2020 20:36

Instrument :

MSVOA_N

ClientSampled :

40556

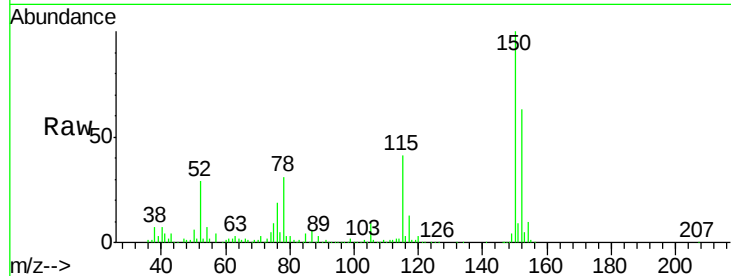
Tot Ion:152 Resp: 233571

Ion Ratio Lower Upper

152 100

115 66.0 32.2 96.6

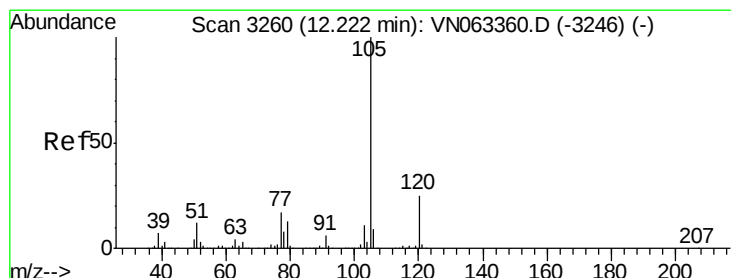
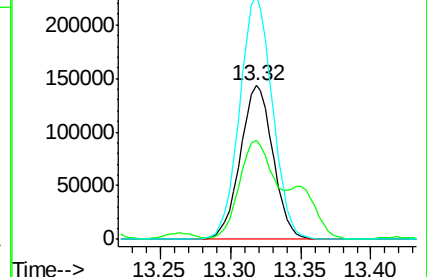
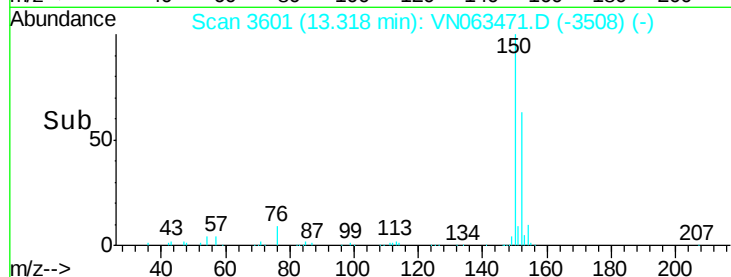
150 158.4 0.0 343.4



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



#73

Isopropylbenzene

Concen: 11.785 ug/l

RT: 12.23 min Scan# 3261

Delta R.T. 0.00 min

Lab File: VN063471.D

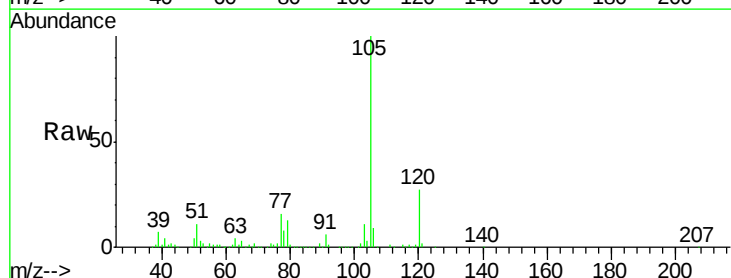
Acq: 18 Sep 2020 20:36

Tgt Ion:105 Resp: 220575

Ion Ratio Lower Upper

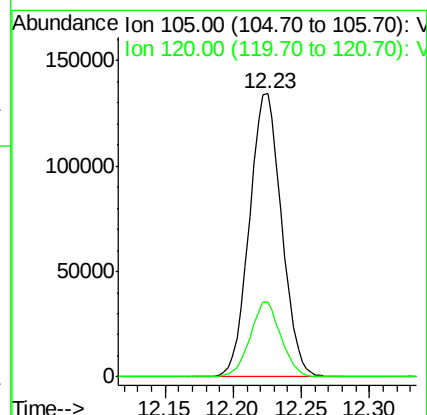
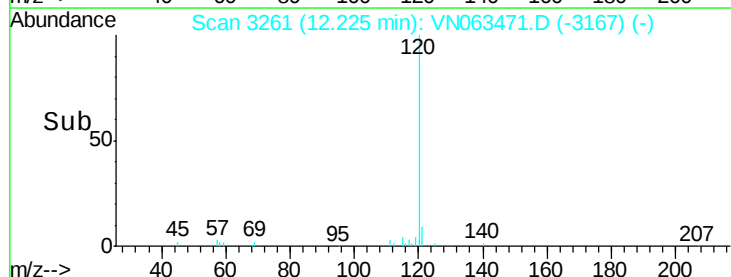
105 100

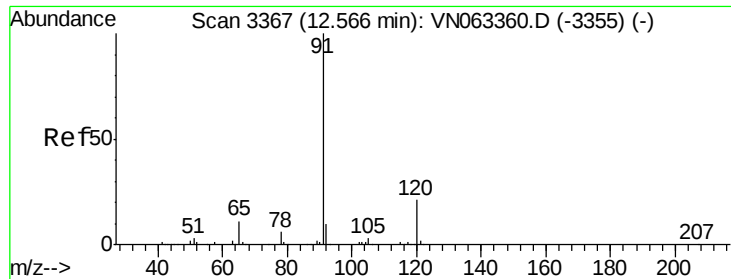
120 25.2 12.7 38.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 34.744 ug/l

RT: 12.57 min Scan# 3367

Delta R.T. -0.00 min

Lab File: VN063471.D

Acq: 18 Sep 2020 20:36

Instrument :

MSVOA_N

ClientSampled :

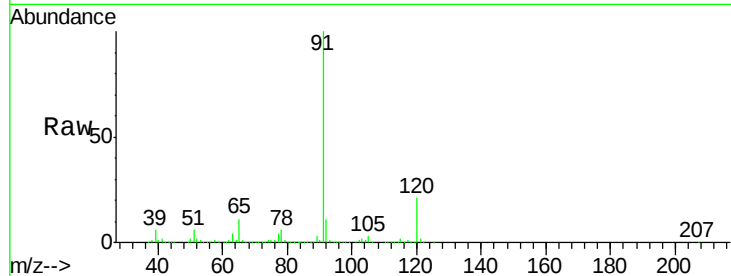
40556

Tot Ion: 91 Resp: 757428

Ion Ratio Lower Upper

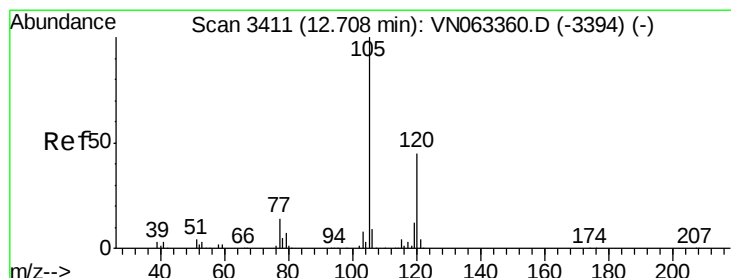
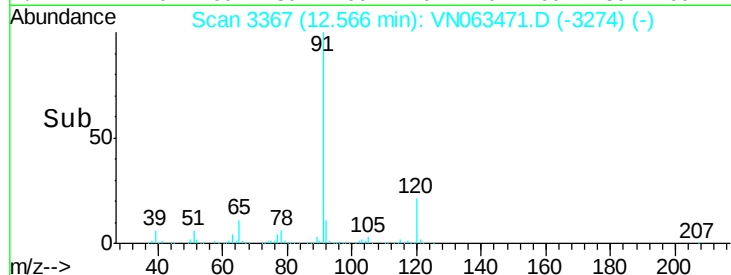
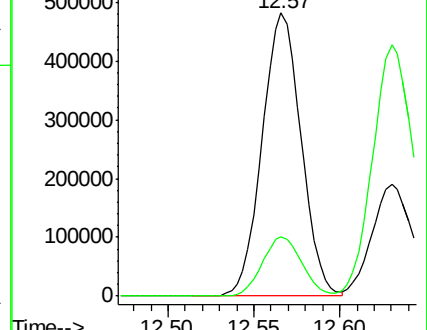
91 100

120 21.2 10.8 32.3



Abundance Ion 91.00 (90.70 to 91.70): VN063360.D (-3355) (-)

Ion 120.00 (119.70 to 120.70): VN063360.D (-3355) (-)



#80

1,3,5-Trimethylbenzene

Concen: 59.784 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. -0.00 min

Lab File: VN063471.D

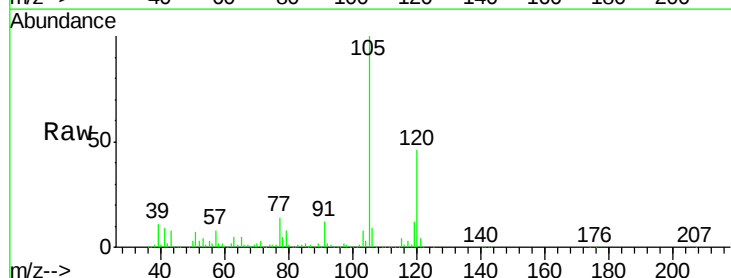
Acq: 18 Sep 2020 20:36

Tgt Ion: 105 Resp: 933082

Ion Ratio Lower Upper

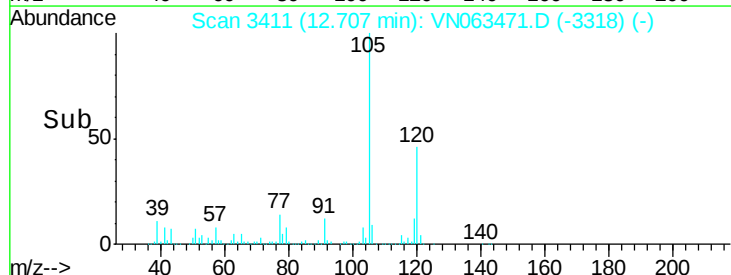
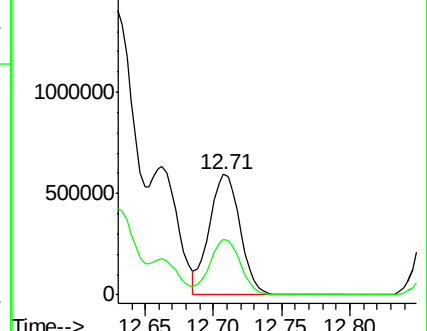
105 100

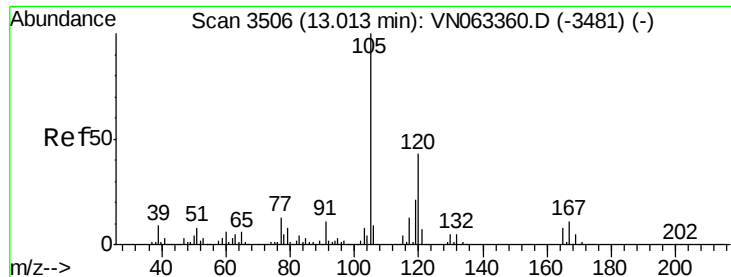
120 45.9 22.9 68.8



Abundance Ion 105.00 (104.70 to 105.70): VN063360.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN063360.D (-3394) (-)

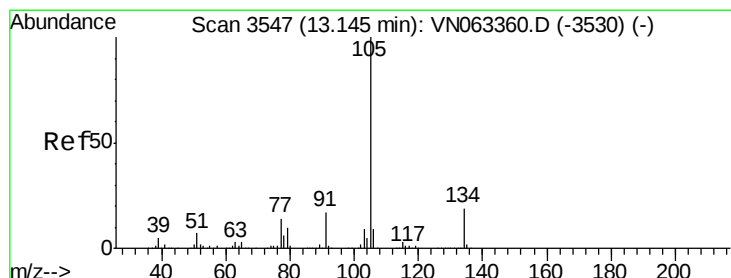
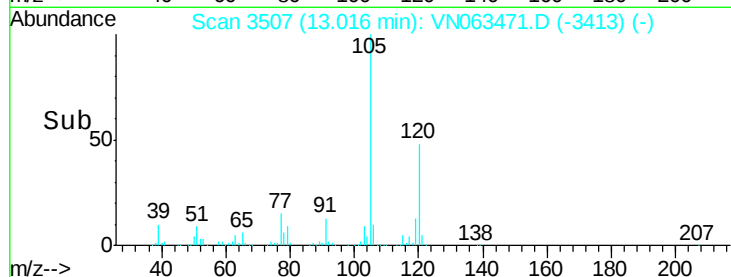
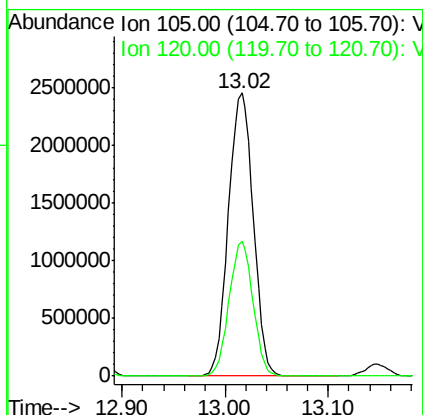
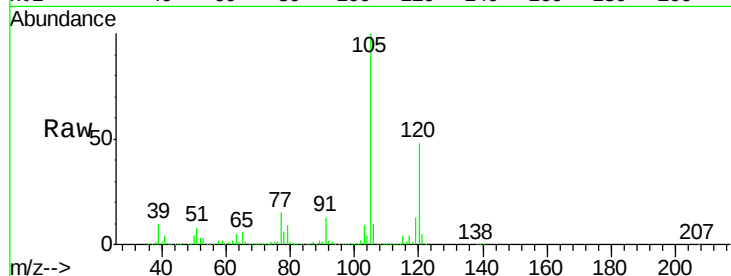




#84
 1,2,4-Trimethylbenzene
 Concen: 261.558 ug/l
 RT: 13.02 min Scan# 3507
 Delta R.T. 0.00 min
 Lab File: VN063471.D
 Acq: 18 Sep 2020 20:36

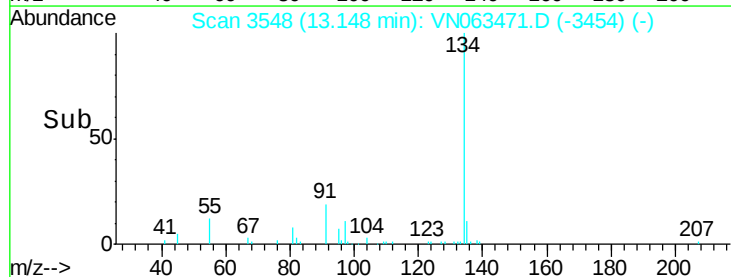
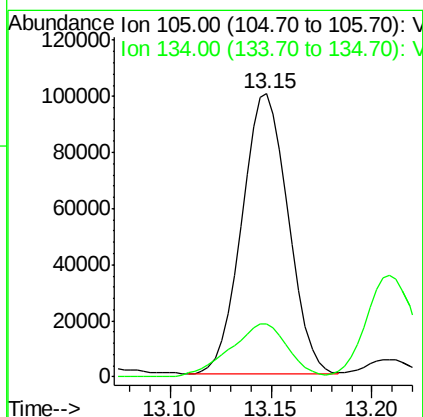
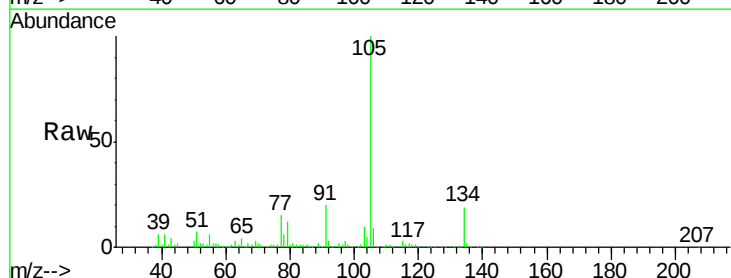
Instrument :
 MSVOA_N
 ClientSampled :
 40556

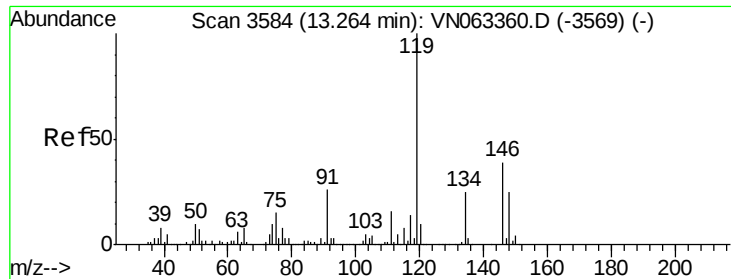
Tot Ion:105 Resp: 4123463
 Ion Ratio Lower Upper
 105 100
 120 45.9 21.3 63.9



#85
 sec-Butylbenzene
 Concen: 9.316 ug/l
 RT: 13.15 min Scan# 3548
 Delta R.T. 0.00 min
 Lab File: VN063471.D
 Acq: 18 Sep 2020 20:36

Tgt Ion:105 Resp: 160636
 Ion Ratio Lower Upper
 105 100
 134 23.6 9.3 27.7

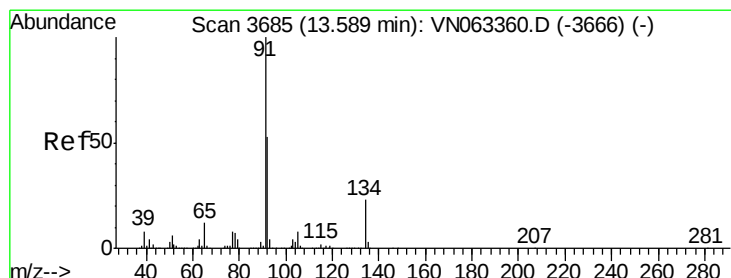
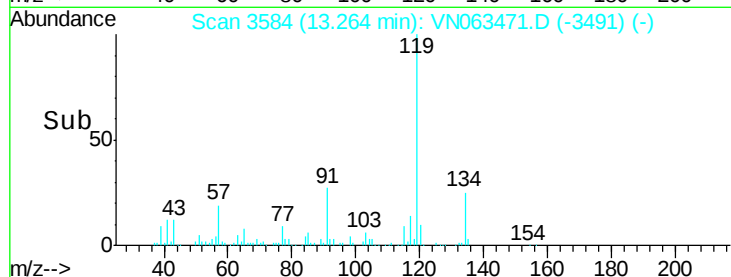
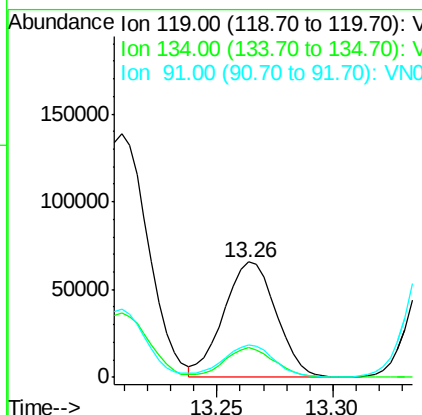
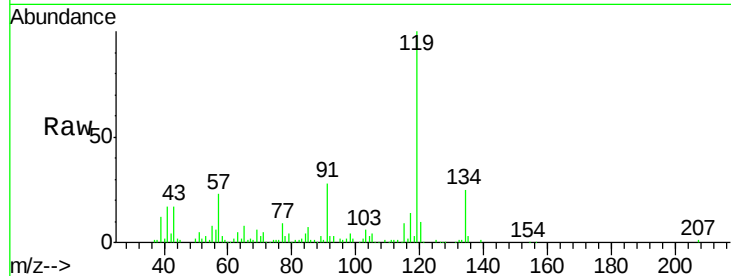




#86
p-Isopropyltoluene
Concen: 6.755 ug/l
RT: 13.26 min Scan# 3584
Delta R.T. -0.00 min
Lab File: VN063471.D
Acq: 18 Sep 2020 20:36

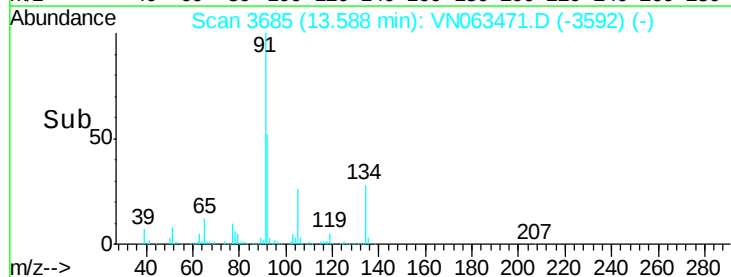
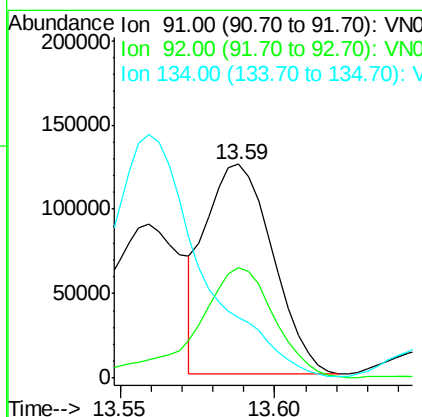
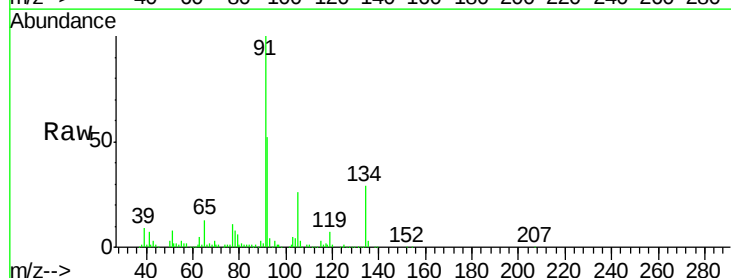
Instrument :
MSVOA_N
ClientSampled :
40556

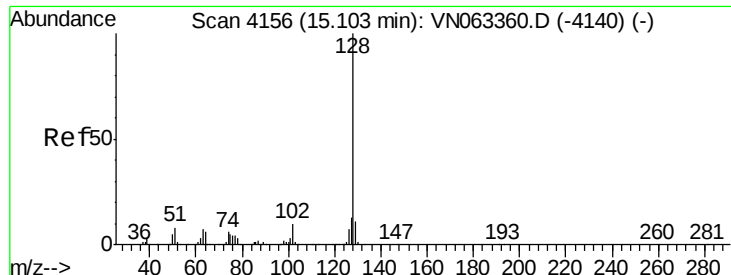
Tot Ion: 119 Resp: 102731
Ion Ratio Lower Upper
119 100
134 24.0 12.5 37.5
91 26.5 13.4 40.1



#89
n-Butylbenzene
Concen: 13.253 ug/l
RT: 13.59 min Scan# 3685
Delta R.T. -0.00 min
Lab File: VN063471.D
Acq: 18 Sep 2020 20:36

Tgt Ion: 91 Resp: 185788
Ion Ratio Lower Upper
91 100
92 61.2 26.0 78.0
134 0.0 11.7 35.0#





#95

Naphthalene

Concen: 88.534 ug/l

RT: 15.10 min Scan# 4156

Delta R.T. -0.00 min

Lab File: VN063471.D

Acq: 18 Sep 2020 20:36

Instrument :

MSVOA_N

ClientSampleId :

40556

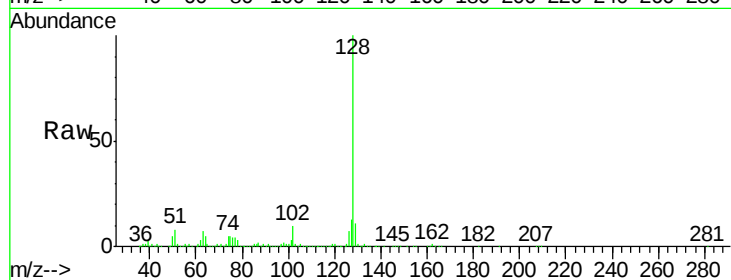
Tot Ion:128 Resp: 1321116

Ion Ratio Lower Upper

128 100

127 13.2 10.6 15.8

129 10.8 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

