

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122818\
 Data File : VF061233.D
 Acq On : 28 Dec 2018 13:53
 Operator : VA/AP
 Sample : J6515-01
 Misc : 5.67µ/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 S72-0050

Manual Integrations
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MMDadoda
 1/2/2019 11:52:13 AM

Quant Time: Jan 02 12:59:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	212779	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.61	114	398592	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.79	117	327934	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.56	152	159032	50.00	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	122399	44.72	ug/l	0.02
Spiked Amount	50.000		Recovery	=	89.44%	
35) Dibromofluoromethane	4.13	113	140461	43.99	ug/l	0.02
Spiked Amount	50.000		Recovery	=	87.98%	
50) Toluene-d8	7.57	98	339121	37.48	ug/l	0.01
Spiked Amount	50.000		Recovery	=	74.96%	
62) 4-Bromofluorobenzene	11.42	95	163171	39.12	ug/l	0.01
Spiked Amount	50.000		Recovery	=	78.24%	
Target Compounds						
					Qvalue	
39) Methylcyclohexane	5.47	83	84236	19.516	ug/l	90
52) Toluene	7.65	92	7709	1.126	ug/l	98
67) Ethyl Benzene	9.92	91	317667	25.738	ug/l	98
68) m/p-Xylenes	10.14	106	264617	60.923	ug/l	93
69) o-Xylene	10.72	106	5239	1.088	ug/l	87
73) Isopropylbenzene	11.14	105	185453	13.532	ug/l	98
78) n-propylbenzene	11.60	91	734241	45.719	ug/l	100
80) 1,3,5-Trimethylbenzene	11.84	105	1005917	89.140	ug/l	98
84) 1,2,4-Trimethylbenzene	12.21	105	2021638	179.649	ug/l	93
85) sec-Butylbenzene	12.31	105	155417	10.256	ug/l #	65
86) p-Isopropyltoluene	12.47	119	41924m	3.333	ug/l	
89) n-Butylbenzene	12.84	91	301127	20.959	ug/l #	20
95) Naphthalene	14.46	128	264452	38.719	ug/l	97

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

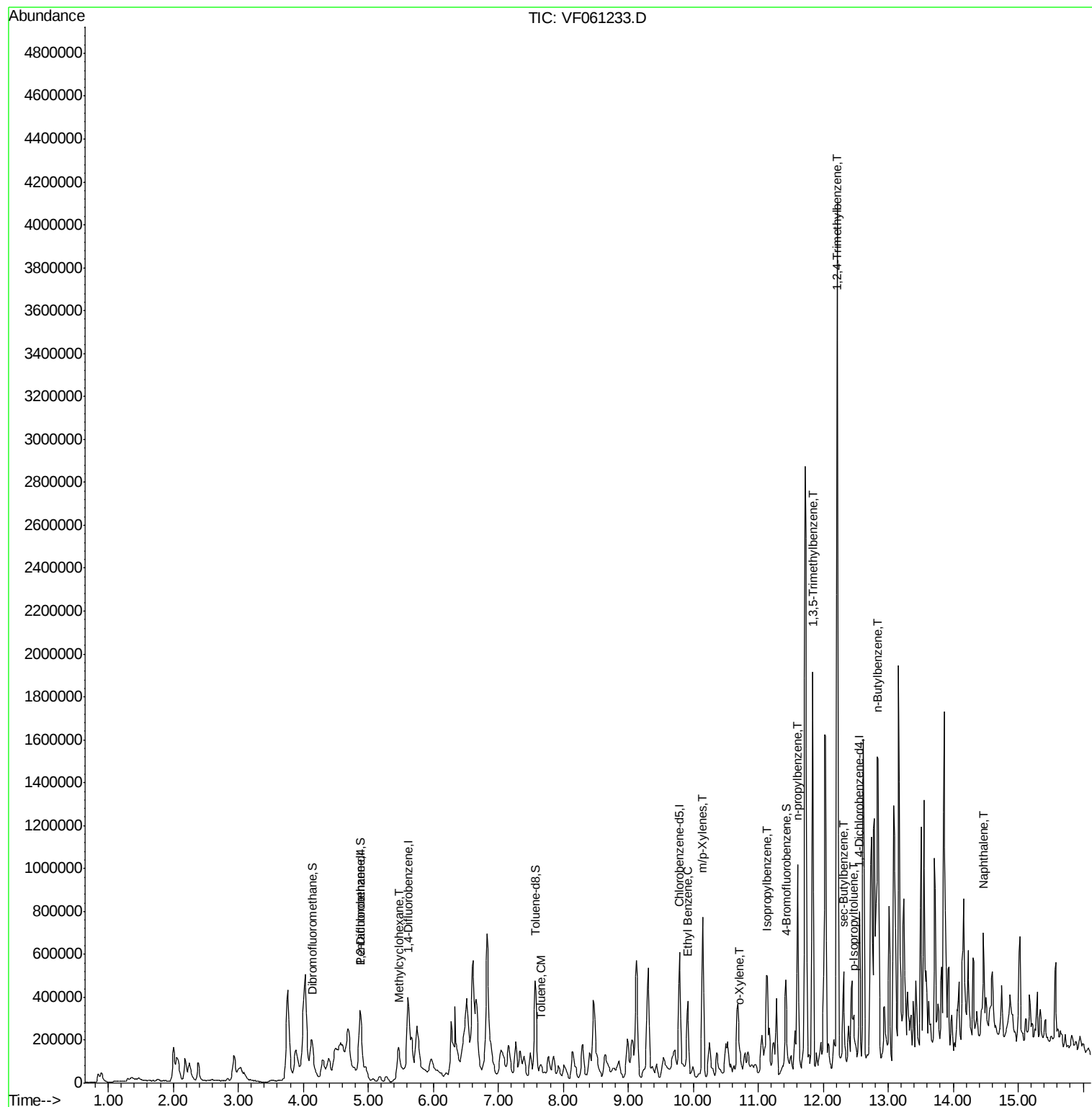
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF122818\
Data File : VF061233.D
Acq On : 28 Dec 2018 13:53
Operator : VA/AP
Sample : J6515-01
Misc : 5.67g/5mL/MSVOA-F/SOIL
ALS Vial : 10 Sample Multiplier: 1

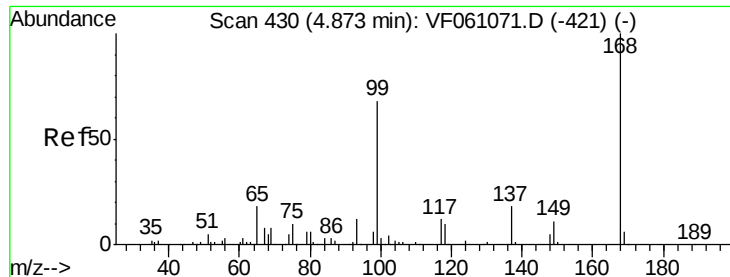
Instrument :
MSVOA_F
ClientSampleId :
S72-0050

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Quant Time: Jan 02 12:59:40 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.01 min

Lab File: VF061233.D

Acq: 28 Dec 2018 13:53

Instrument :

MSVOA_F

ClientSampleId :

S72-0050

Tot Ion:168 Resp: 212779

Ion Ratio Lower Upper

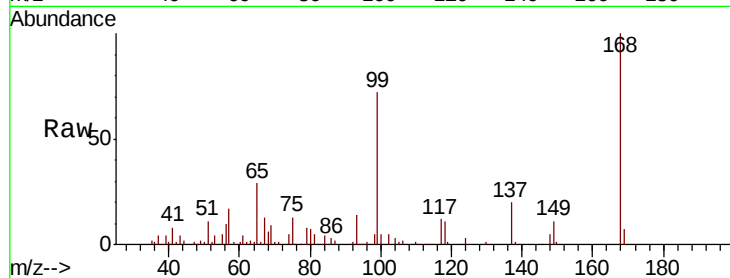
168 100

99 71.8 54.4 81.6

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

60000

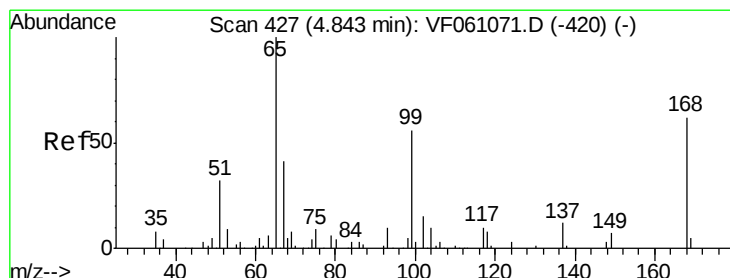
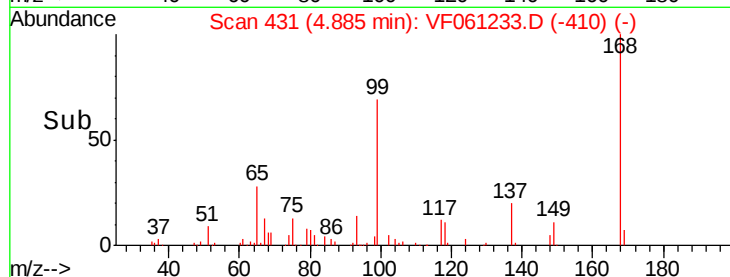
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#33

1,2-Dichloroethane-d4

Concen: 44.725 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.02 min

Lab File: VF061233.D

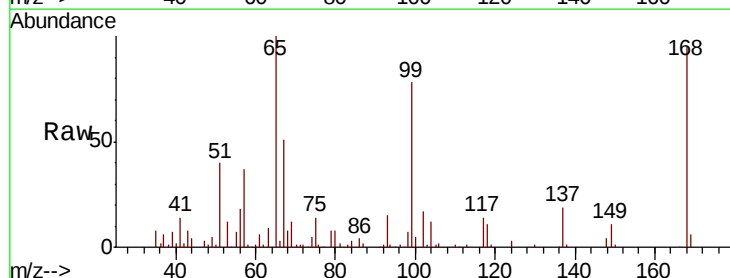
Acq: 28 Dec 2018 13:53

Tgt Ion: 65 Resp: 122399

Ion Ratio Lower Upper

65 100

67 51.4 0.0 94.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

4.86

50000

40000

30000

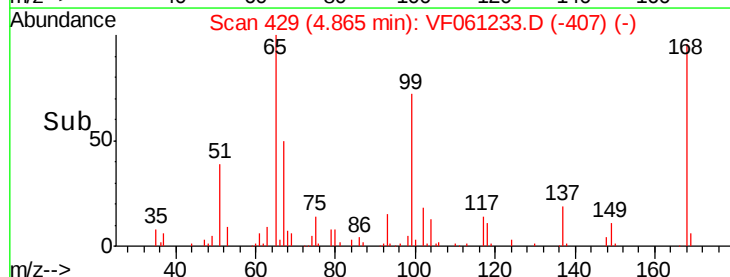
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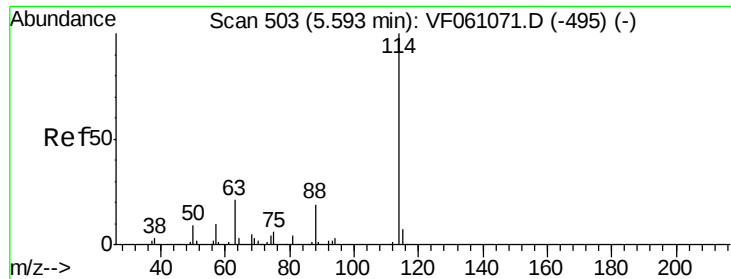
10000

0

Time-->

4.70 4.80 4.90 5.00





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. 0.02 min

Lab File: VF061233.D

Acq: 28 Dec 2018 13:53

Instrument :

MSVOA_F

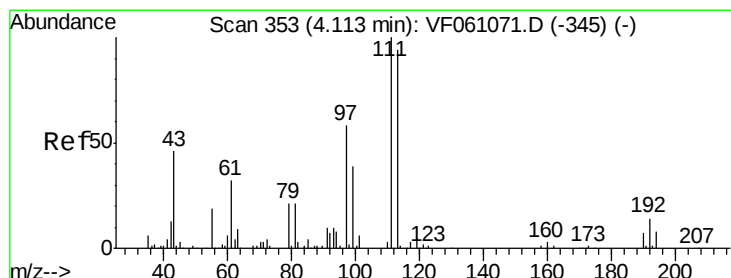
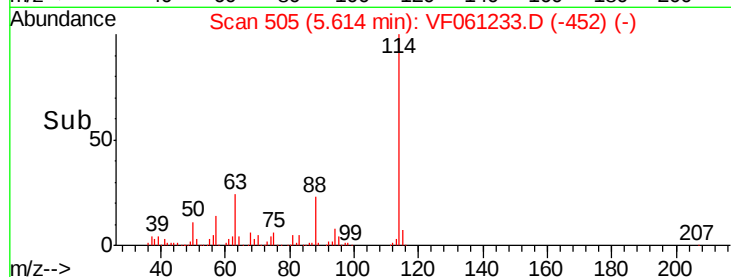
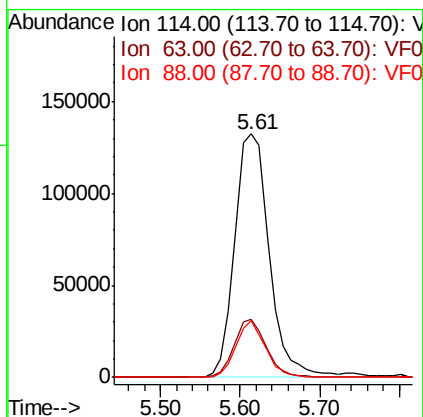
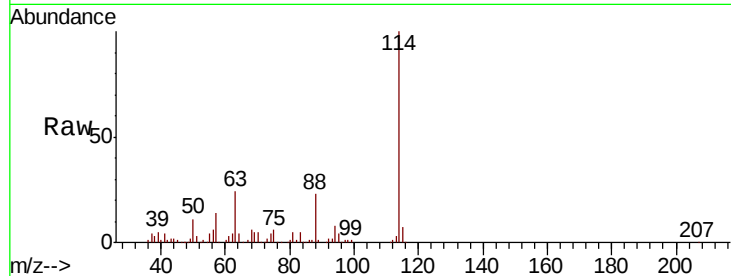
ClientSampleId :

S72-0050

Tot Ion	Ratio	Resp	Lower	Upper
114	100	398592		
63	24.1	0.0	41.6	
88	23.3	0.0	38.0	

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#35

Dibromofluoromethane

Concen: 43.991 ug/l

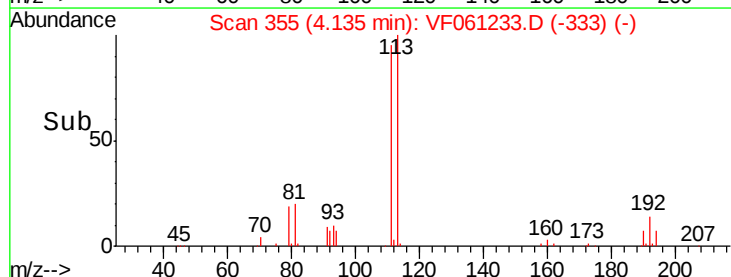
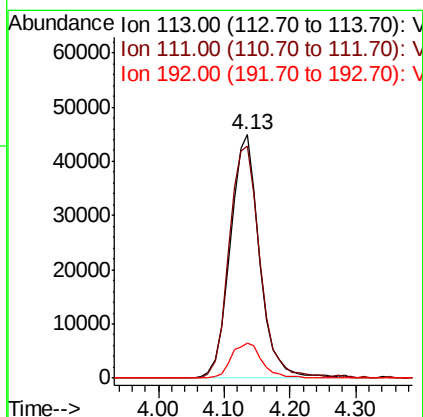
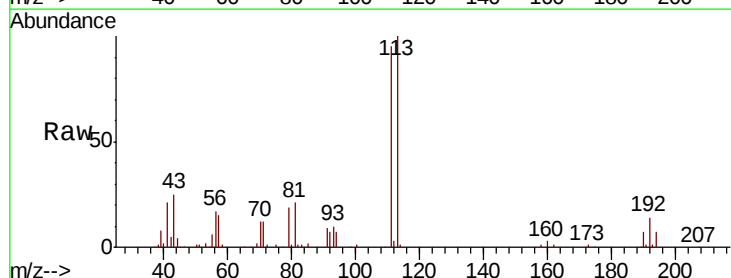
RT: 4.13 min Scan# 355

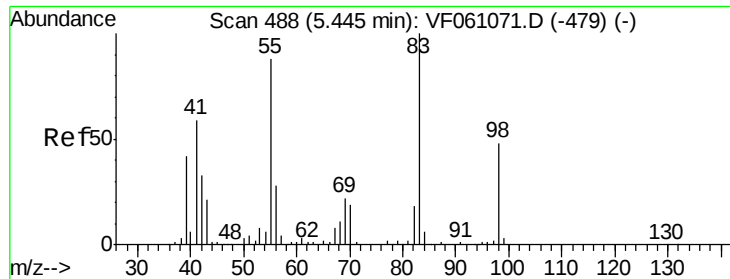
Delta R.T. 0.02 min

Lab File: VF061233.D

Acq: 28 Dec 2018 13:53

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	140461		
111	95.1	85.2	127.8	
192	14.1	12.8	19.2	





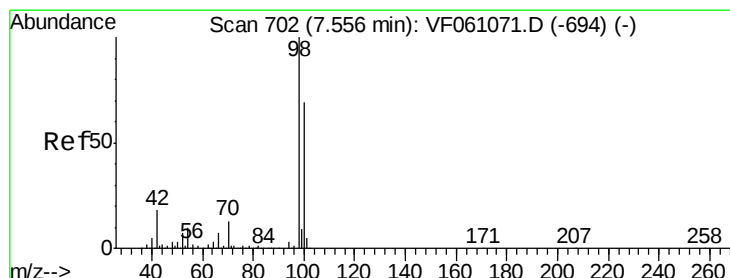
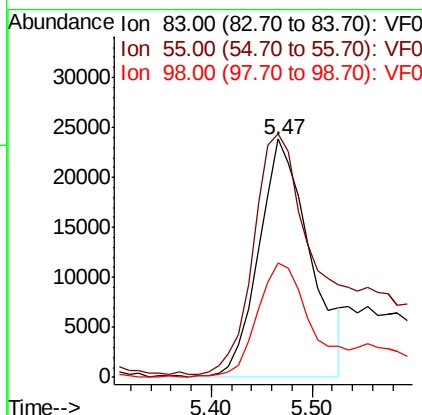
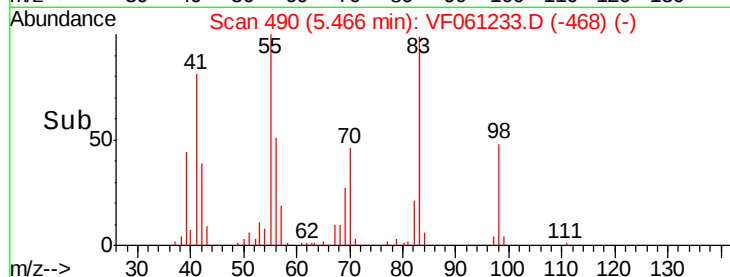
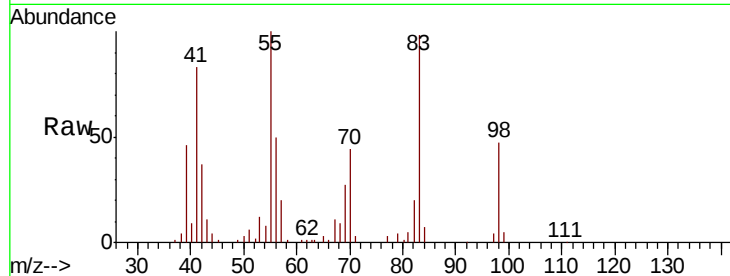
#39
Methvlcvclohexane
Concen: 19.516 ug/l
RT: 5.47 min Scan# 490
Delta R.T. 0.02 min
Lab File: VF061233.D
Acq: 28 Dec 2018 13:53

Instrument :
MSVOA_F
ClientSampleId :
S72-0050

Tot Ion	Ratio	Lower	Upper
83	100		
55	102.2	70.6	105.8
98	48.2	38.5	57.7

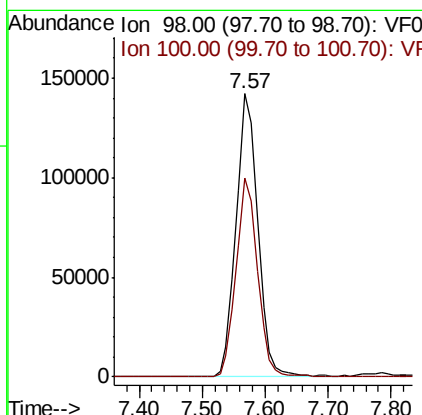
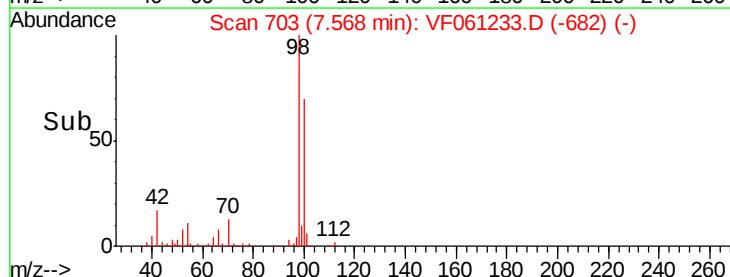
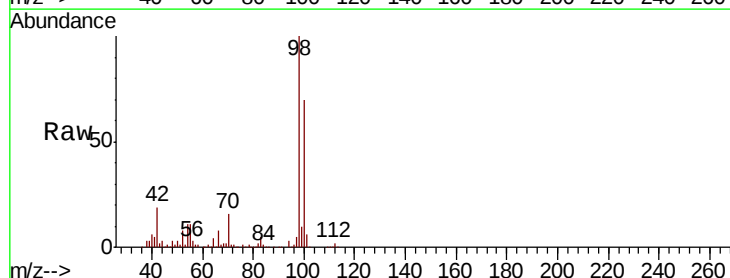
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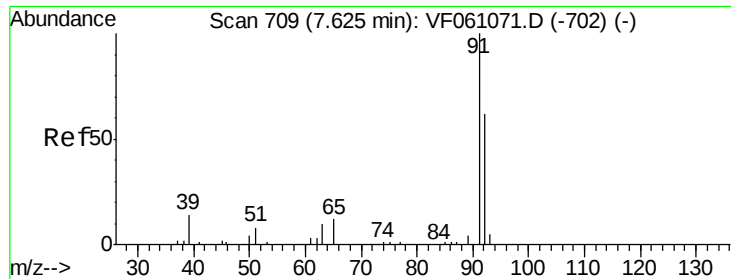
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#50
Toluene-d8
Concen: 37.478 ug/l
RT: 7.57 min Scan# 703
Delta R.T. 0.01 min
Lab File: VF061233.D
Acq: 28 Dec 2018 13:53

Tgt Ion	Ratio	Lower	Upper
98	100		
100	70.1	55.3	82.9





#52

Toluene

Concen: 1.126 ug/l

RT: 7.65 min Scan# 711

Delta R.T. 0.02 min

Lab File: VF061233.D

Acq: 28 Dec 2018 13:53

Instrument :

MSVOA_F

ClientSampleId :

S72-0050

Tot Ion: 92 Resp: 7709

Ion Ratio Lower Upper

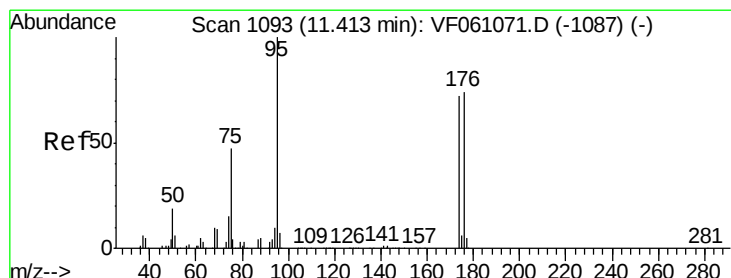
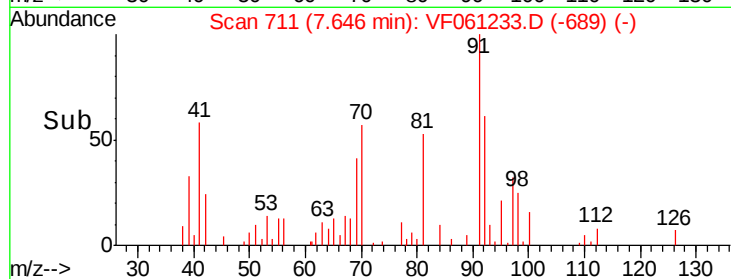
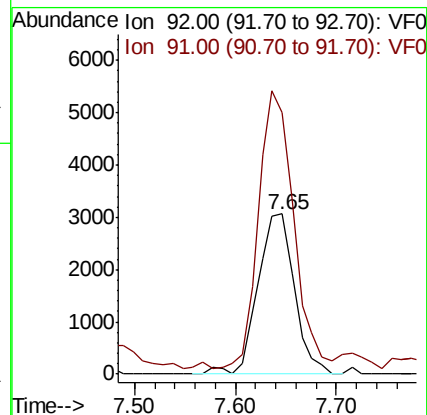
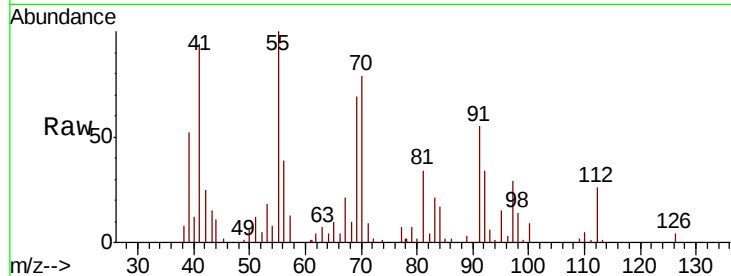
92 100

91 163.2 128.8 193.2

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#62

4-Bromofluorobenzene

Concen: 39.116 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VF061233.D

Acq: 28 Dec 2018 13:53

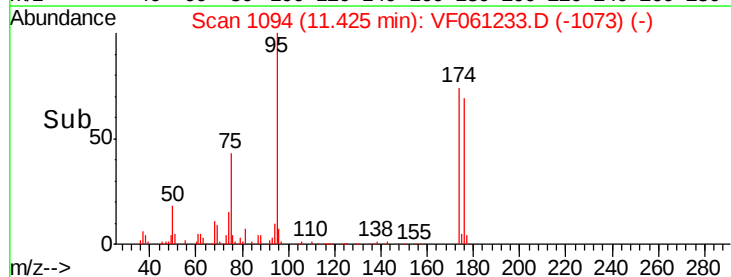
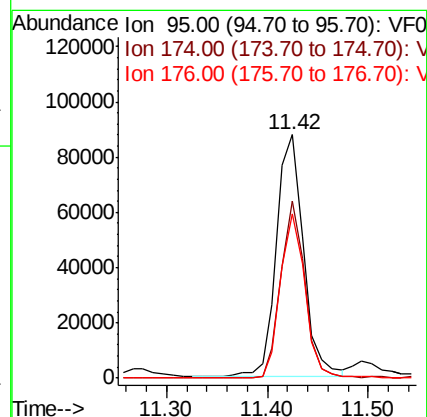
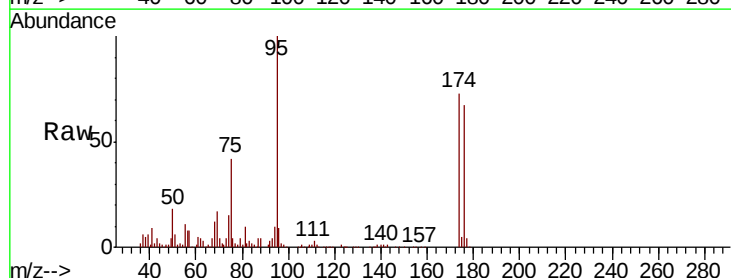
Tgt Ion: 95 Resp: 163171

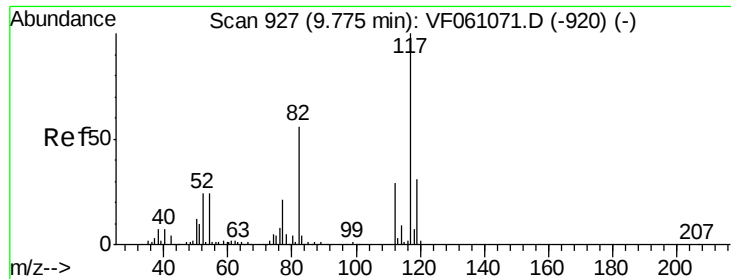
Ion Ratio Lower Upper

95 100

174 72.6 0.0 143.8

176 67.4 0.0 147.6





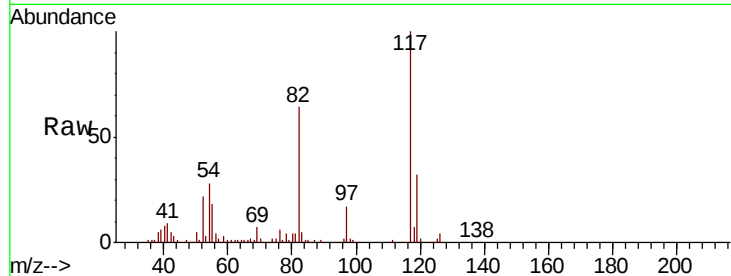
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 928
Delta R.T. 0.01 min
Lab File: VF061233.D
Acq: 28 Dec 2018 13:53

Instrument :
MSVOA_F
ClientSampleId :
S72-0050

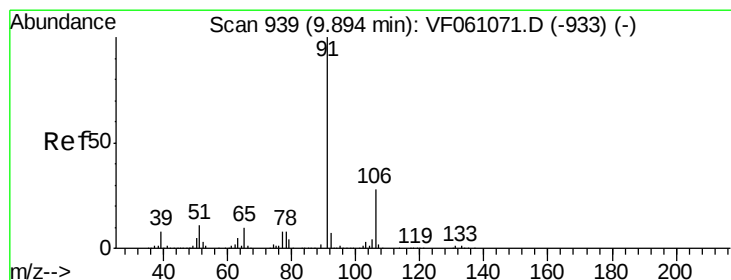
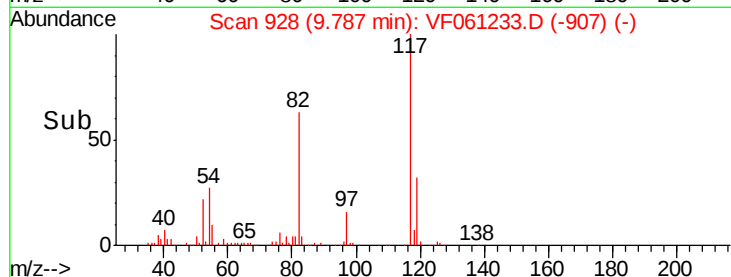
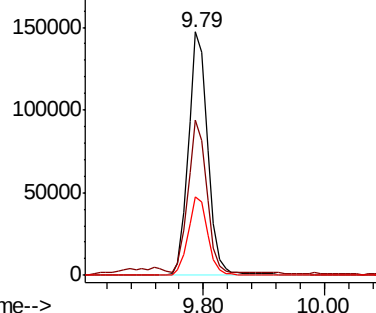
Tot Ion	Ratio	Resp	Lower	Upper
117	100	327934		
82	63.6	45.0	67.4	
119	32.0	24.8	37.2	

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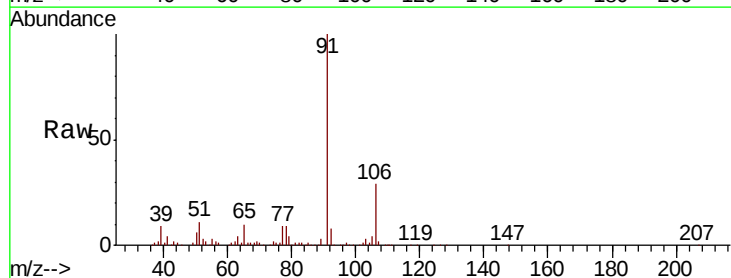


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

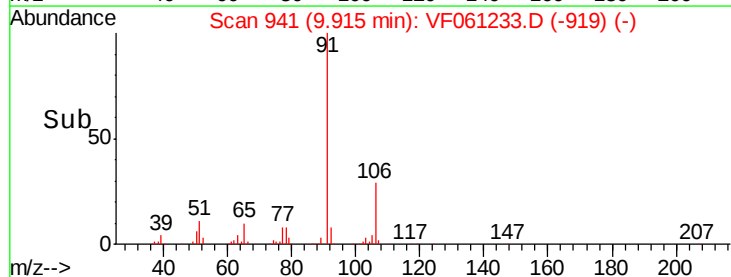
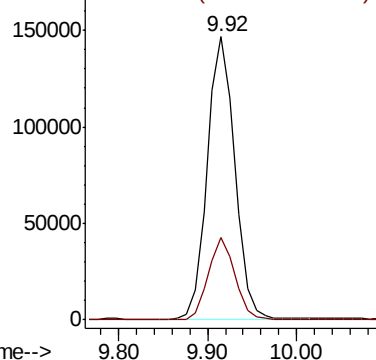


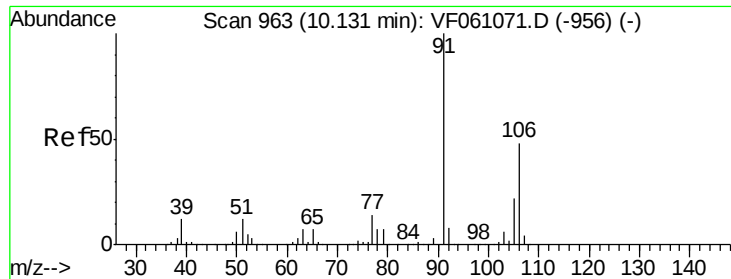
#67
Ethyl Benzene
Concen: 25.738 ug/l
RT: 9.92 min Scan# 941
Delta R.T. 0.02 min
Lab File: VF061233.D
Acq: 28 Dec 2018 13:53

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	317667		
106	29.0	22.5	33.7	



Abundance Ion 91.00 (90.70 to 91.70): VF0
Ion 106.00 (105.70 to 106.70): V





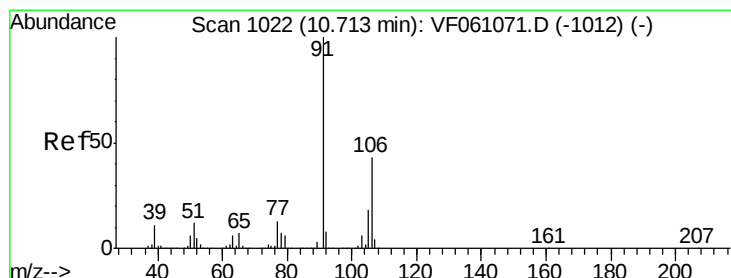
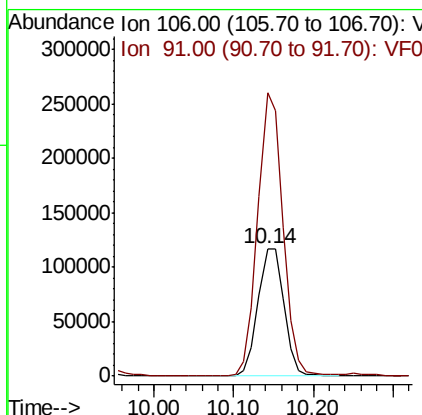
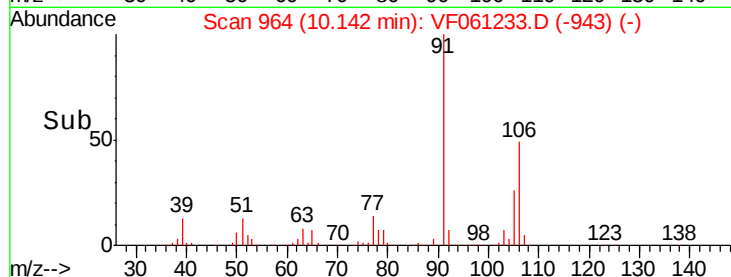
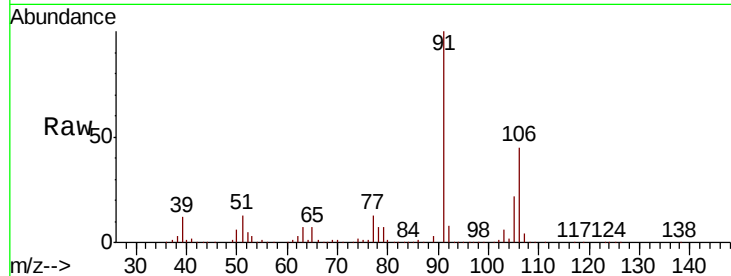
#68
m/p-Xylenes
Concen: 60.923 ug/l
RT: 10.14 min Scan# 964
Delta R.T. 0.01 min
Lab File: VF061233.D
Acq: 28 Dec 2018 13:53

Instrument :
MSVOA_F
ClientSampleId :
S72-0050

Tot Ion:106 Resp: 264617
Ion Ratio Lower Upper
106 100
91 221.9 168.2 252.2

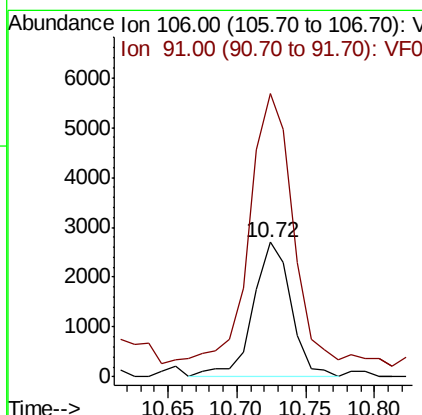
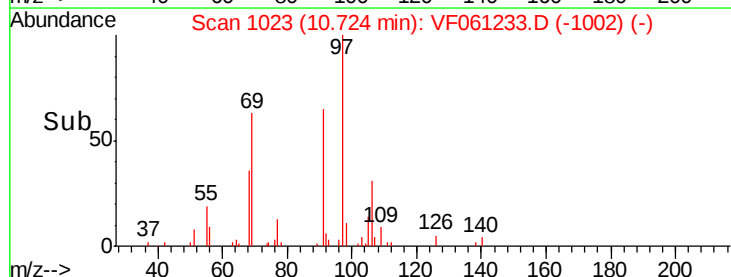
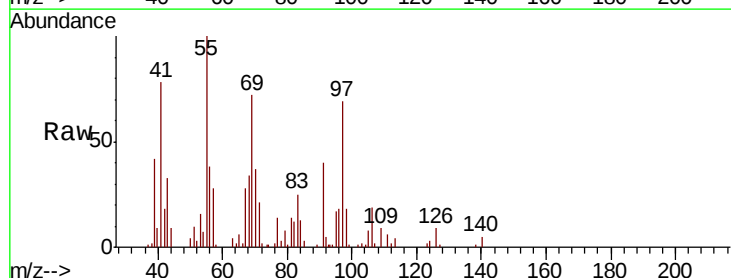
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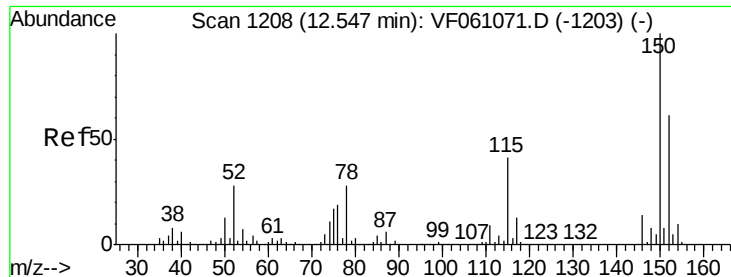
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#69
o-Xylene
Concen: 1.088 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. 0.01 min
Lab File: VF061233.D
Acq: 28 Dec 2018 13:53

Tgt Ion:106 Resp: 5239
Ion Ratio Lower Upper
106 100
91 210.0 115.9 347.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1209

Delta R.T. 0.01 min

Lab File: VF061233.D

Acq: 28 Dec 2018 13:53

Instrument :

MSVOA_F

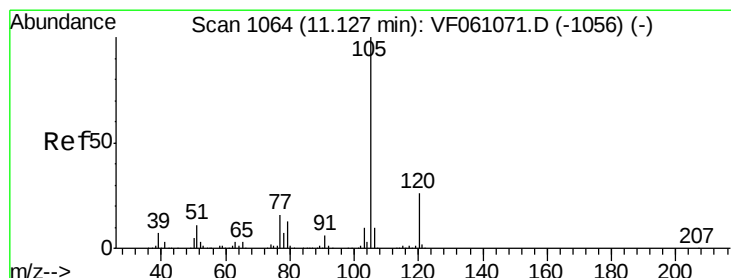
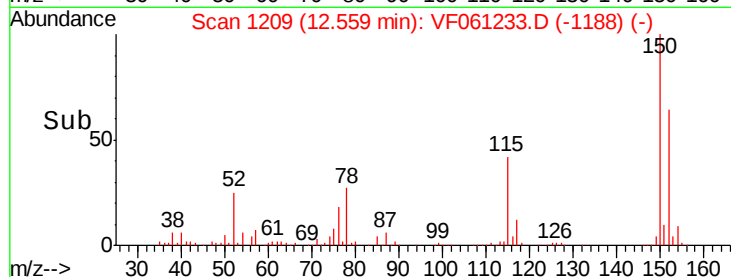
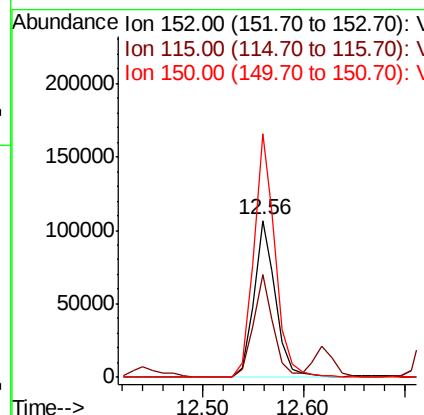
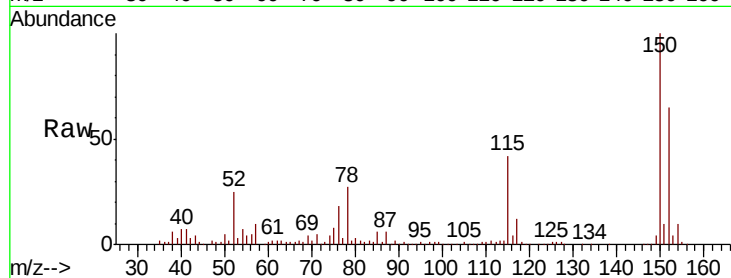
ClientSampled :

S72-0050

Tot Ion	Ratio	Lower	Upper
152	100		
115	65.5	33.3	99.9
150	155.0	0.0	328.2

Manual Integrations
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#73

Isopropylbenzene

Concen: 13.532 ug/l

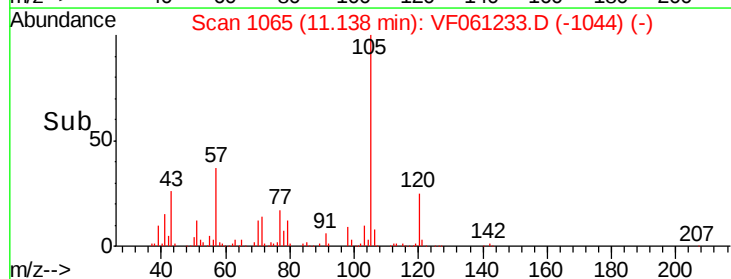
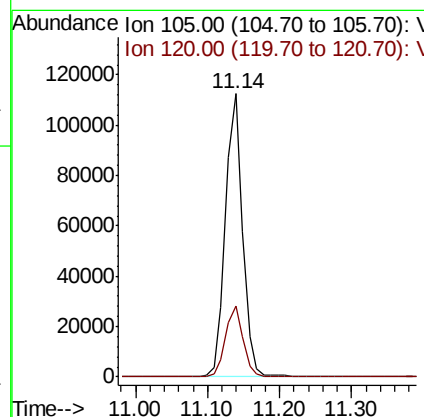
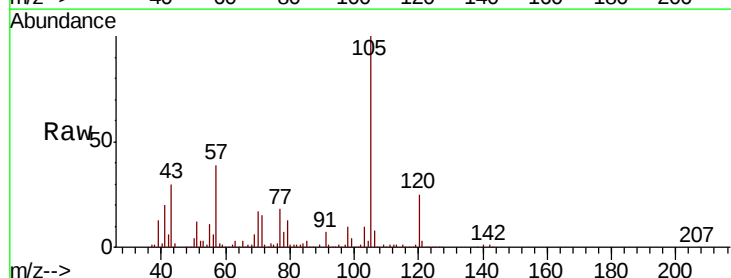
RT: 11.14 min Scan# 1065

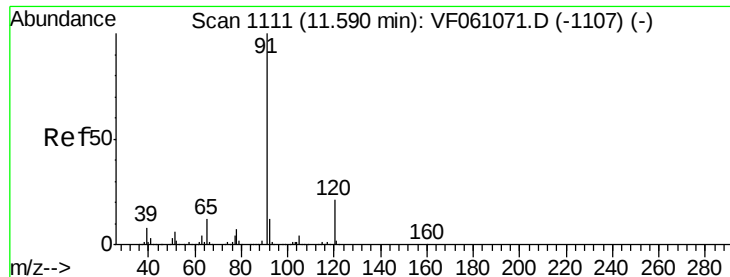
Delta R.T. 0.01 min

Lab File: VF061233.D

Acq: 28 Dec 2018 13:53

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.1	13.0	39.0





#78

n-propylbenzene

Concen: 45.719 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF061233.D

Acq: 28 Dec 2018 13:53

Instrument :

MSVOA_F

ClientSampled :

S72-0050

Tot Ion: 91 Resp: 734241

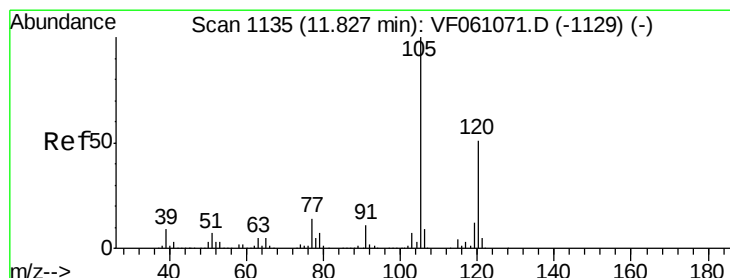
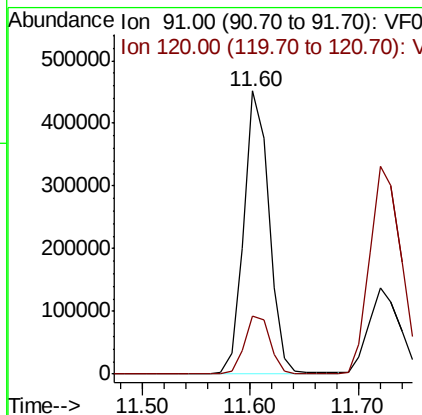
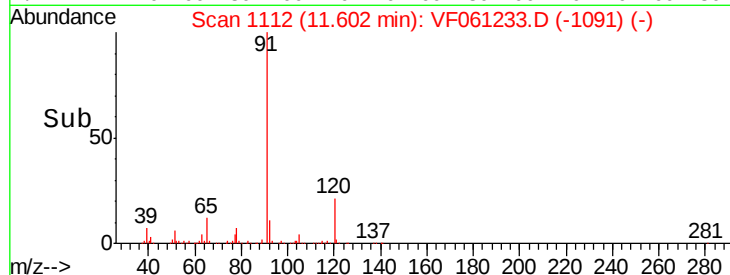
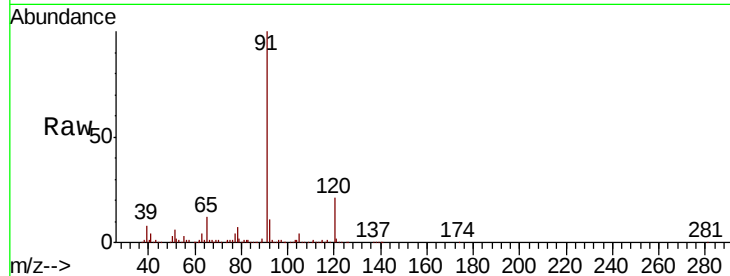
Ion Ratio Lower Upper

91 100

120 20.7 10.4 31.2

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#80

1,3,5-Trimethylbenzene

Concen: 89.140 ug/l

RT: 11.84 min Scan# 1136

Delta R.T. 0.01 min

Lab File: VF061233.D

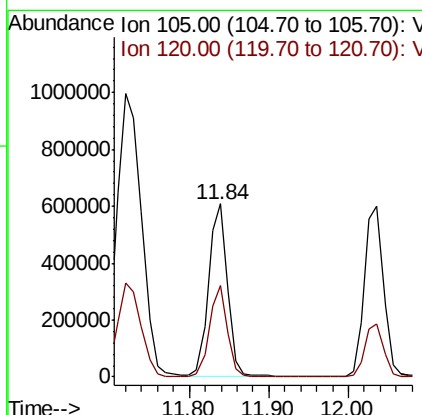
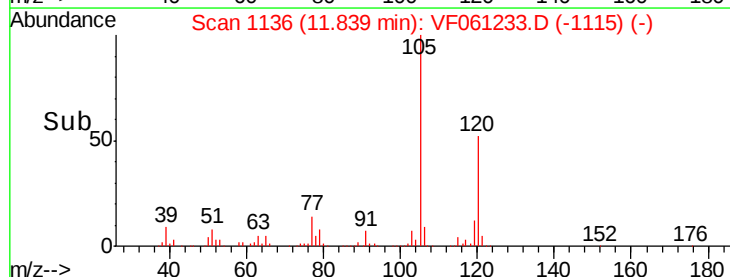
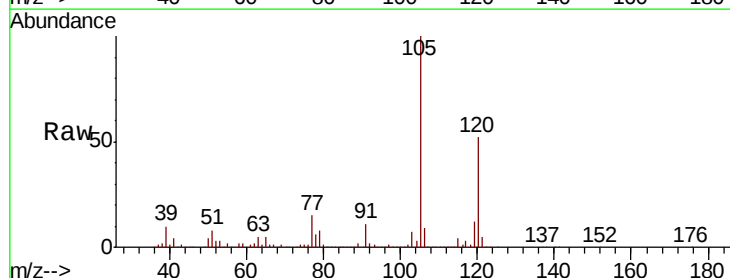
Acq: 28 Dec 2018 13:53

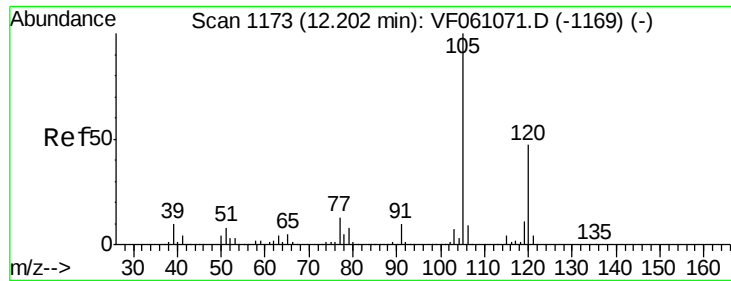
Tgt Ion: 105 Resp: 1005917

Ion Ratio Lower Upper

105 100

120 52.5 25.4 76.4





#84

1,2,4-Trimethylbenzene

Concen: 179.649 ug/l

RT: 12.21 min Scan# 1174

Delta R.T. 0.01 min

Lab File: VF061233.D

Acq: 28 Dec 2018 13:53

Instrument :

MSVOA_F

ClientSampleId :

S72-0050

Tot Ion:105 Resp: 2021638

Ion Ratio Lower Upper

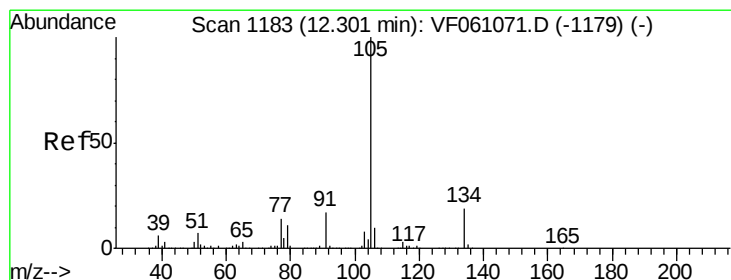
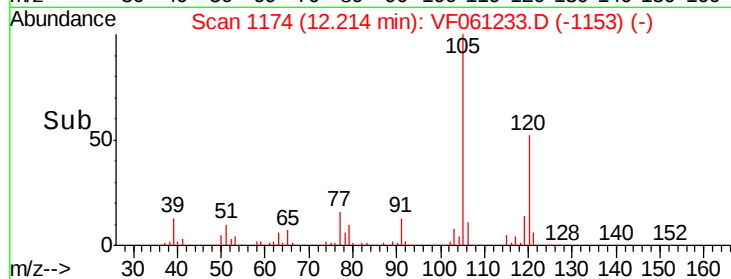
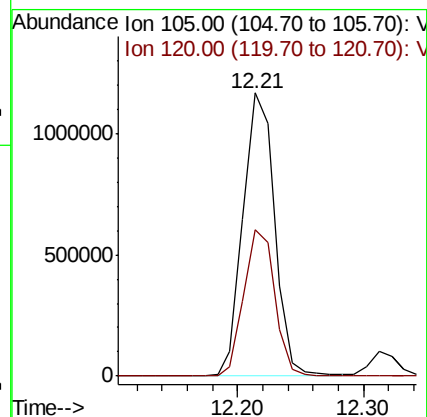
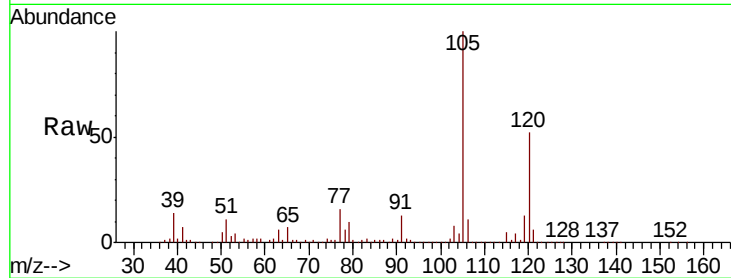
105 100

120 51.9 23.6 71.0

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#85

sec-Butylbenzene

Concen: 10.256 ug/l

RT: 12.31 min Scan# 1184

Delta R.T. 0.01 min

Lab File: VF061233.D

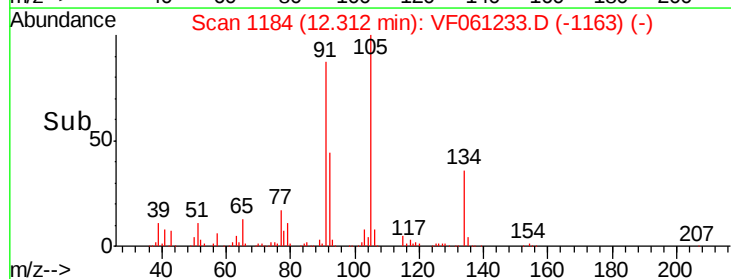
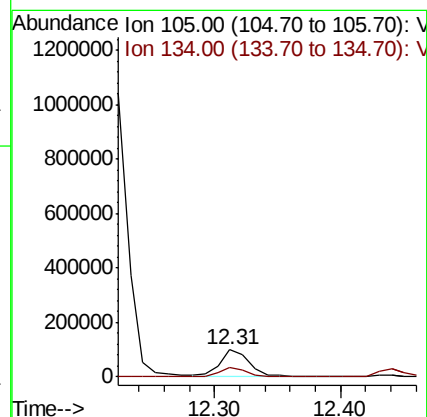
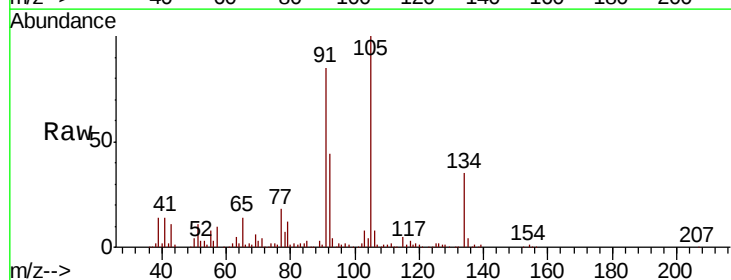
Acq: 28 Dec 2018 13:53

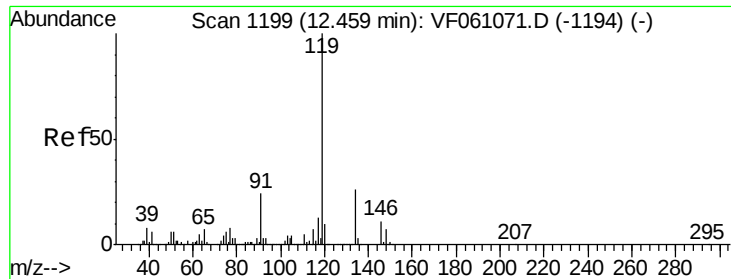
Tgt Ion:105 Resp: 155417

Ion Ratio Lower Upper

105 100

134 34.7 9.4 28.2#





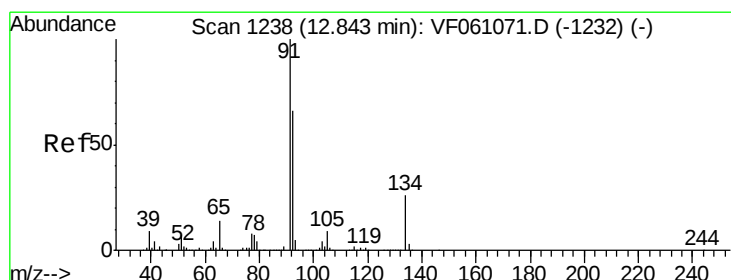
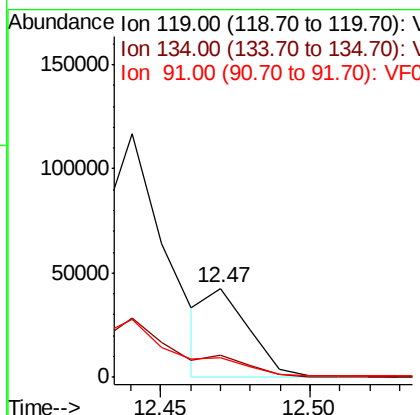
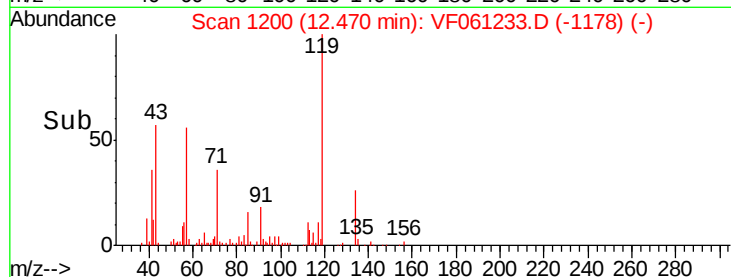
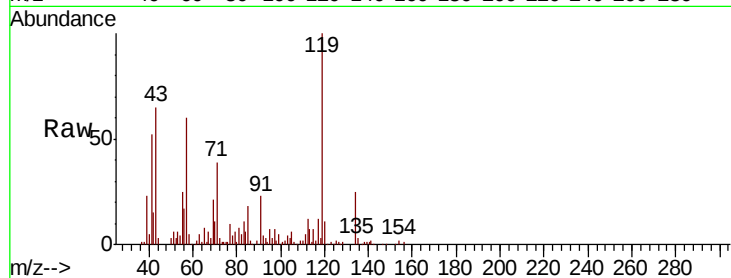
#86
p-Isopropyltoluene
Concen: 3.333 ug/l m
RT: 12.47 min Scan# 1200
Delta R.T. 0.01 min
Lab File: VF061233.D
Acq: 28 Dec 2018 13:53

Instrument :
MSVOA_F
ClientSampleId :
S72-0050

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.0	12.8	38.4
91	22.7	12.2	36.6

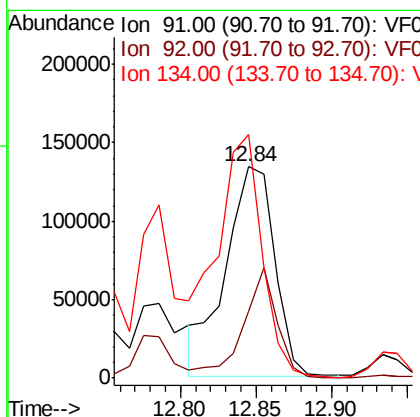
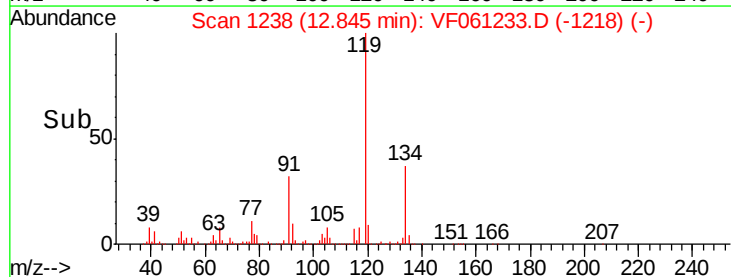
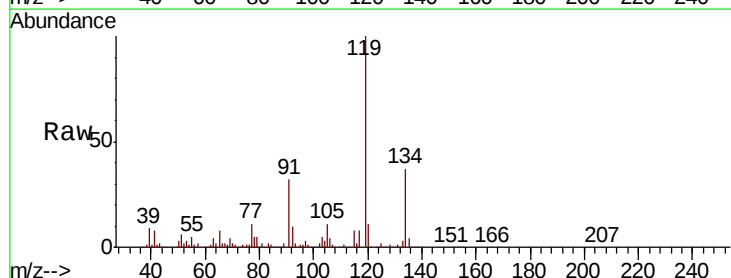
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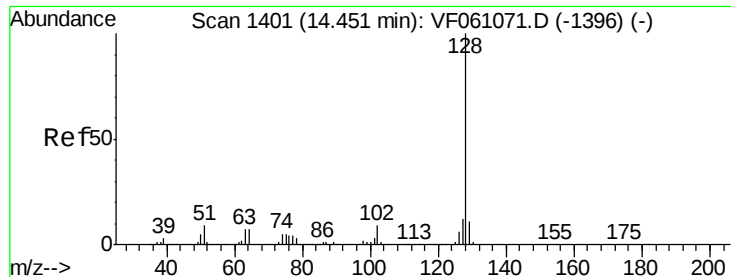
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#89
n-Butylbenzene
Concen: 20.959 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. 0.00 min
Lab File: VF061233.D
Acq: 28 Dec 2018 13:53

Tgt Ion	Ratio	Lower	Upper
91	100		
92	31.4	32.8	98.4#
134	115.1	13.2	39.5#





#95
Naphthalene
Concen: 38.719 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. 0.01 min
Lab File: VF061233.D
Acq: 28 Dec 2018 13:53

Instrument :
MSVOA_F
ClientSampleId :
S72-0050

Tot Ion	Ratio	Resp Lower	Upper
128	100		
127	12.9	9.4	14.2
129	11.9	8.8	13.2

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