

Data Path : Z:\voasrv\HPCHEM1\MSVOA_F\Data\VF122018\
 Data File : VF061105.D
 Acq On : 20 Dec 2018 13:50
 Operator : VA/AP
 Sample : J6377-03
 Misc : 2.97g/5mL/MSVOA-F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD014-0006-01

Manual Integrations
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 1/3/2019 11:36:58 AM

Quant Time: Jan 03 11:02:25 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	4.87	168	170116	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	269440	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.79	117	151470	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.56	152	29244	50.00	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	91076	41.63	ug/l	0.01
Spiked Amount 50.000			Recovery	=	83.26%	
35) Dibromofluoromethane	4.13	113	91394	42.34	ug/l	0.01
Spiked Amount 50.000			Recovery	=	84.68%	
50) Toluene-d8	7.57	98	194084	31.73	ug/l	0.01
Spiked Amount 50.000			Recovery	=	63.46%	
62) 4-Bromofluorobenzene	11.41	95	42575	15.10	ug/l	0.00
Spiked Amount 50.000			Recovery	=	30.20%	
Target Compounds						
						Qvalue
31) Cyclohexane	3.70	56	1470803m	460.212	ug/l	
39) Methylcyclohexane	5.47	83	1268280m	434.675	ug/l	
40) Benzene	4.64	78	114465	16.366	ug/l	98
52) Toluene	7.64	92	137362	29.669	ug/l	99
65) Chlorobenzene	9.82	112	1993227	636.984	ug/l	96
67) Ethyl Benzene	9.92	91	437055	76.666	ug/l	100
68) m/p-Xylenes	10.24	106	15320354	7636.404	ug/l #	45
69) o-Xylene	10.72	106	126597	56.896	ug/l	94
73) Isopropylbenzene	11.13	105	314408	124.760	ug/l	96
80) 1,3,5-Trimethylbenzene	11.83	105	635978	306.478	ug/l	98
83) tert-Butylbenzene	12.14	119	8612	4.033	ug/l #	24
84) 1,2,4-Trimethylbenzene	12.21	105	1760070	850.547	ug/l	92
85) sec-Butylbenzene	12.31	105	41759m	14.985	ug/l	
86) p-Isopropyltoluene	12.46	119	182296m	78.812	ug/l	
87) 1,3-Dichlorobenzene	12.48	146	137400	167.878	ug/l	98
88) 1,4-Dichlorobenzene	12.57	146	1285196	1290.160	ug/l	90
89) n-Butylbenzene	12.85	91	76720	30.070	ug/l #	67
91) 1,2-Dichlorobenzene	12.94	146	10195	10.512	ug/l	96
95) Naphthalene	14.46	128	262971	209.380	ug/l	98

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

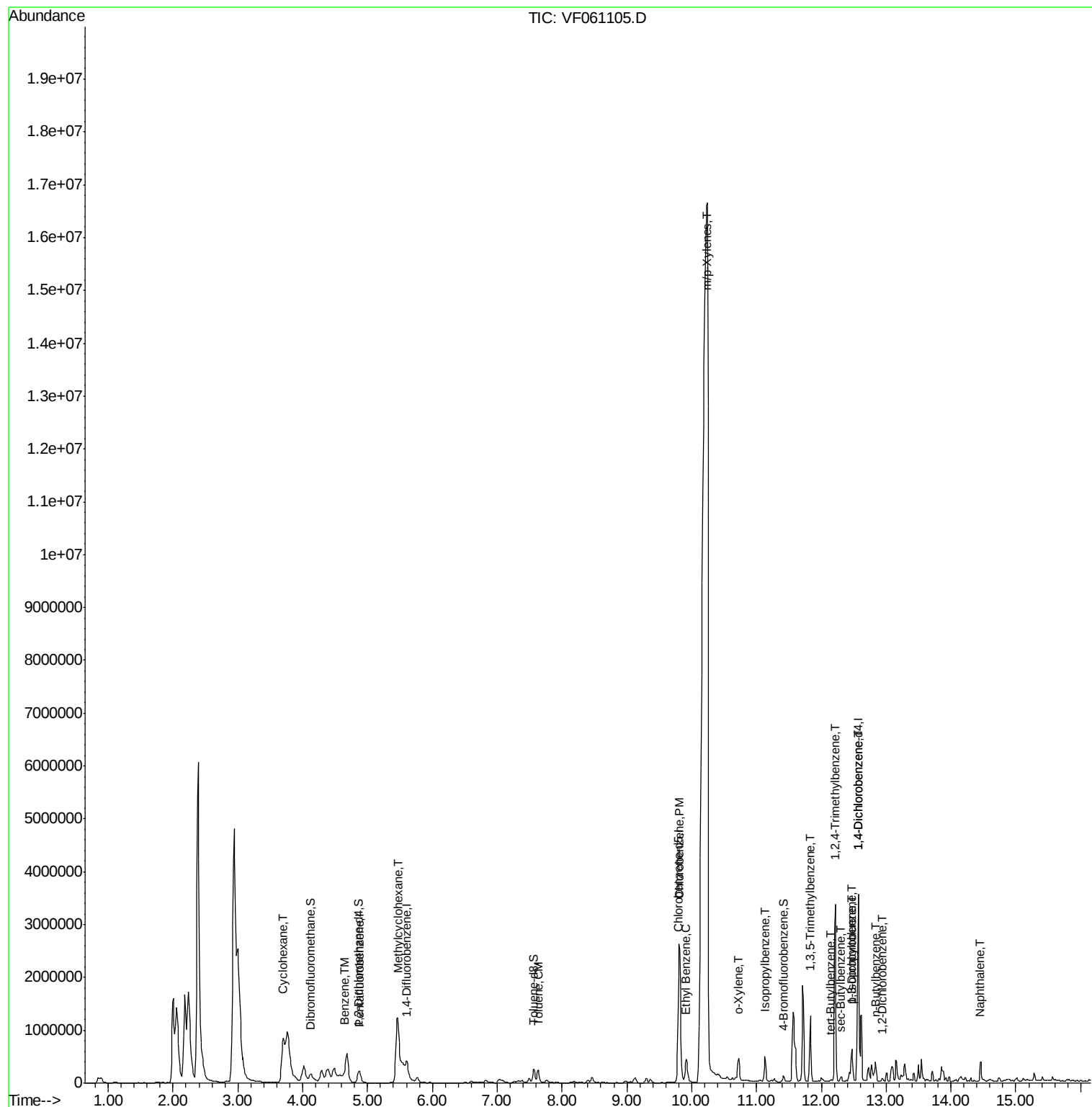
Data Path : Z:\voasrv\HPCHEM1\MSVOA_F\Data\VF122018\
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Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.00 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

Instrument :

MSVOA_F

ClientSampleId :

P001-SD014-0006-01

Tgt Ion: 168 Resp: 170116

Ion Ratio Lower Upper

168 100

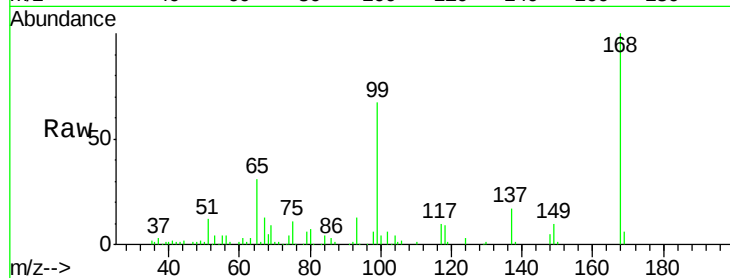
99 67.3 54.4 81.6

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

60000

50000

40000

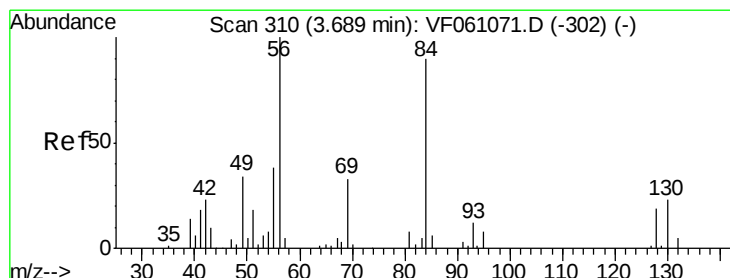
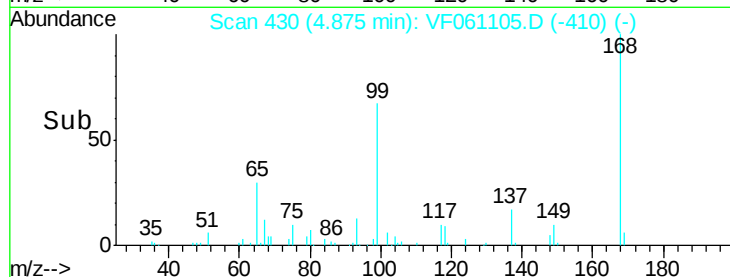
30000

20000

10000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#31

Cyclohexane

Concen: 460.212 ug/l m

RT: 3.70 min Scan# 311

Delta R.T. 0.01 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

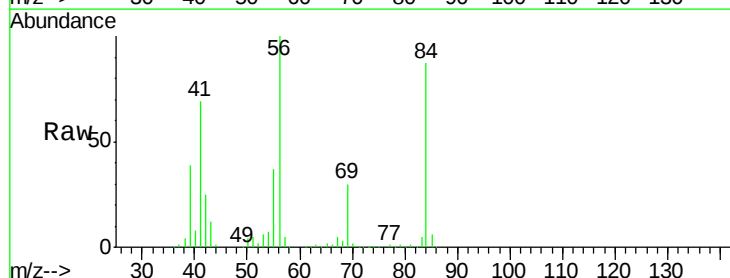
Tgt Ion: 56 Resp: 1470803

Ion Ratio Lower Upper

56 100

69 30.2 26.0 39.0

84 87.1 71.4 107.2



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0

3.70

250000

200000

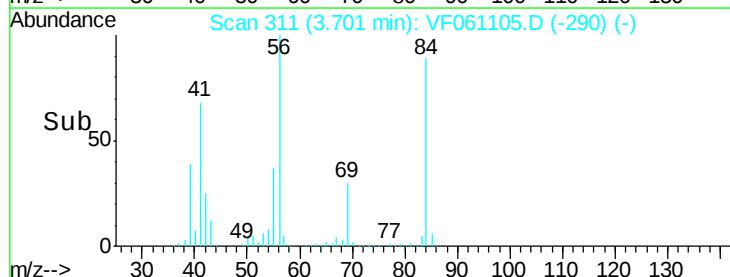
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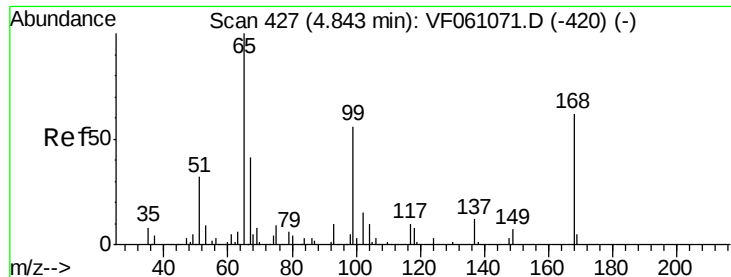
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50000

0

Time--> 3.50 3.60 3.70 3.80 3.90





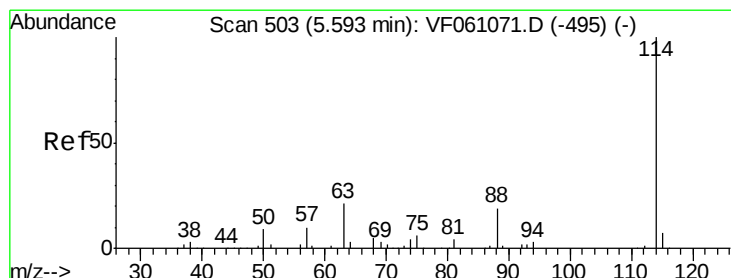
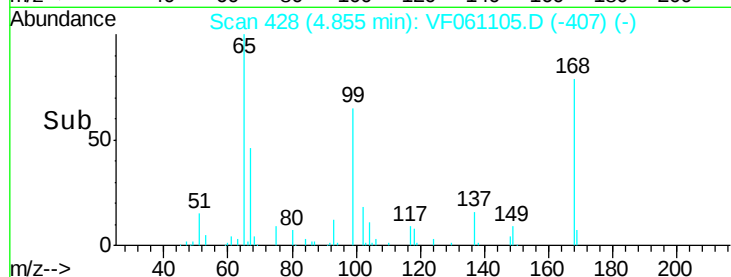
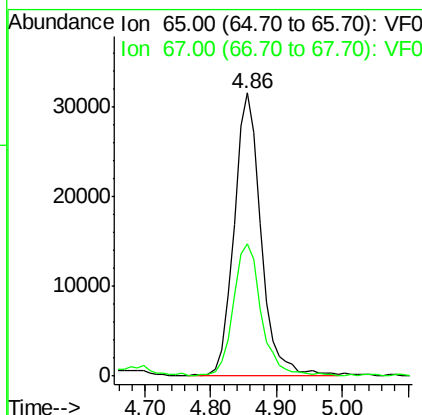
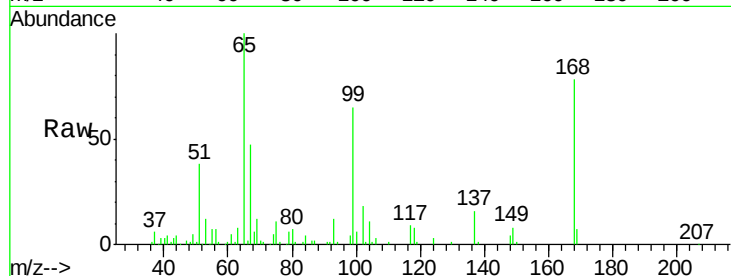
#33
 1,2-Dichloroethane-d4
 Concen: 41.626 ug/l
 RT: 4.86 min Scan# 428
 Delta R.T. 0.01 min
 Lab File: VF061105.D
 Acq: 20 Dec 2018 13:50

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD014-0006-01

Tgt Ion: 65 Resp: 91076
 Ion Ratio Lower Upper
 65 100
 67 46.6 0.0 94.6

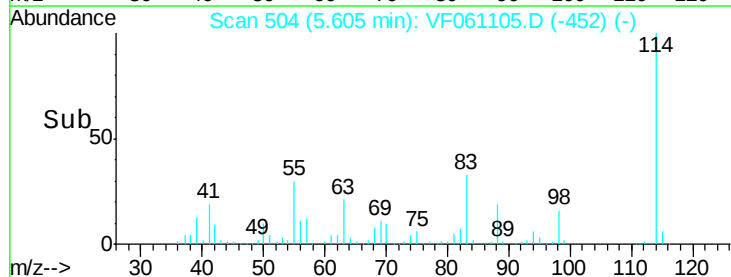
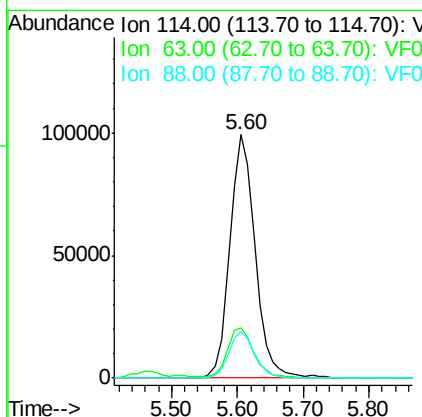
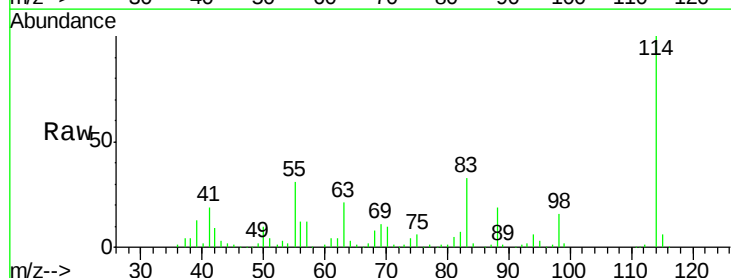
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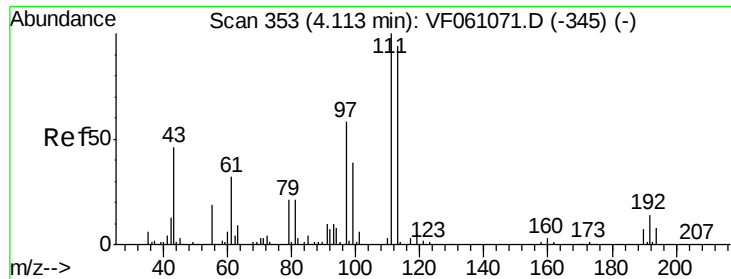
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. 0.01 min
 Lab File: VF061105.D
 Acq: 20 Dec 2018 13:50

Tgt Ion: 114 Resp: 269440
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 41.6
 88 19.1 0.0 38.0





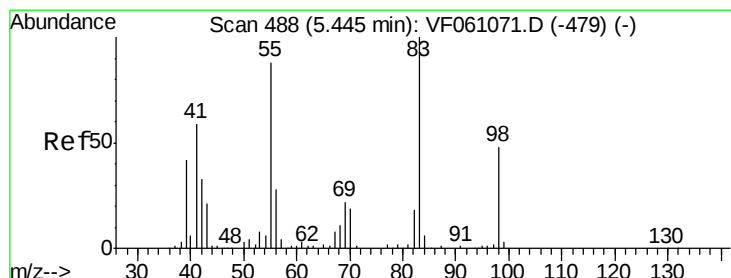
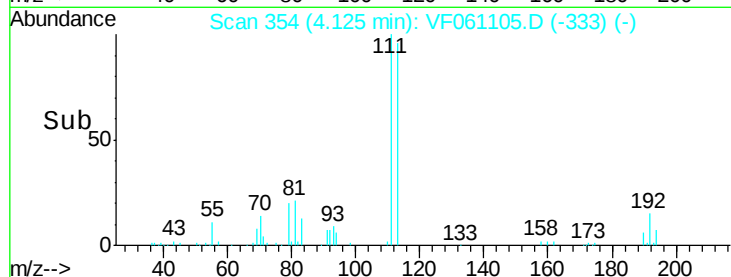
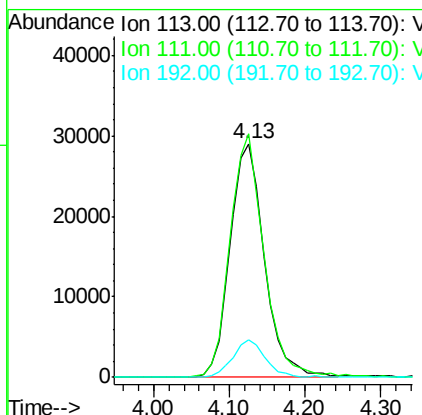
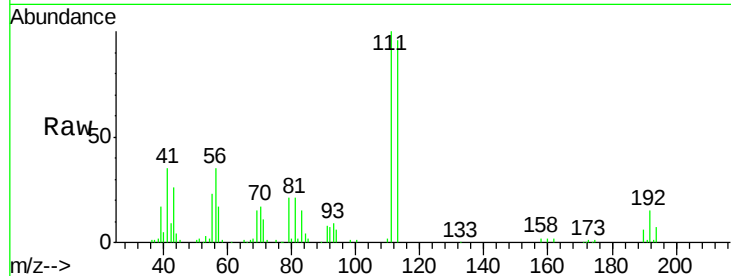
#35
Dibromofluoromethane
Concen: 42.344 ug/l
RT: 4.13 min Scan# 354
Delta R.T. 0.01 min
Lab File: VF061105.D
Acq: 20 Dec 2018 13:50

Instrument :
MSVOA_F
ClientSampleId :
P001-SD014-0006-01

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.2	85.2	127.8
192	16.1	12.8	19.2

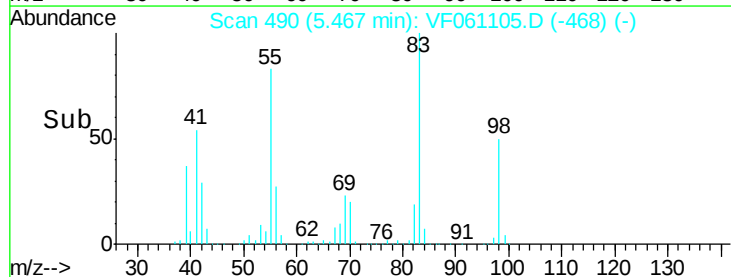
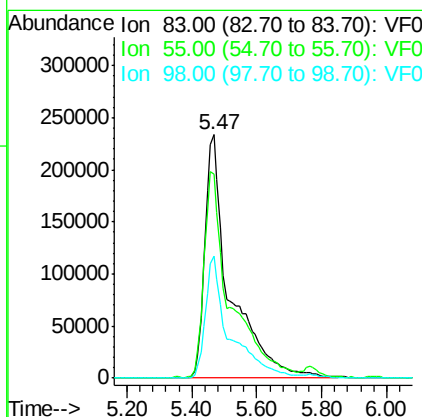
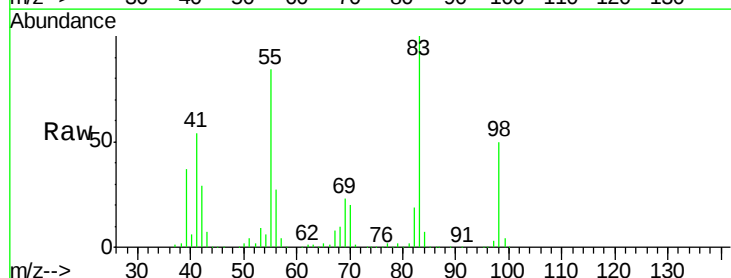
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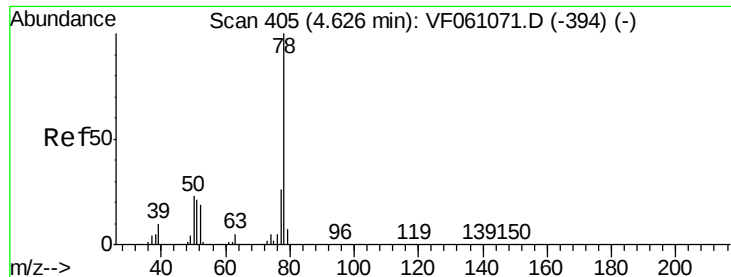
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#39
Methylcyclohexane
Concen: 434.675 ug/l m
RT: 5.47 min Scan# 490
Delta R.T. 0.02 min
Lab File: VF061105.D
Acq: 20 Dec 2018 13:50

Tgt Ion	Ratio	Lower	Upper
83	100		
55	83.5	70.6	105.8
98	50.3	38.5	57.7





#40

Benzene

Concen: 16.366 ug/l

RT: 4.64 min Scan# 406

Delta R.T. 0.01 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

Instrument :

MSVOA_F

ClientSampleId :

P001-SD014-0006-01

Tgt Ion: 78 Resp: 114465

Ion Ratio Lower Upper

78 100

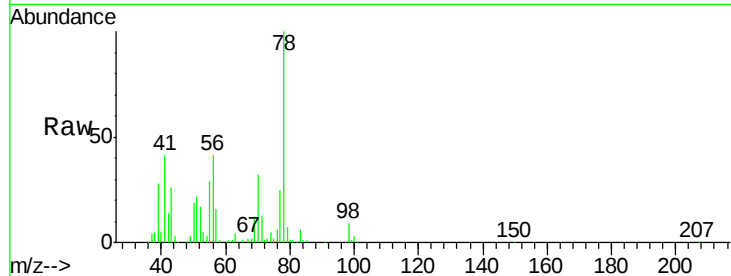
77 24.8 20.7 31.1

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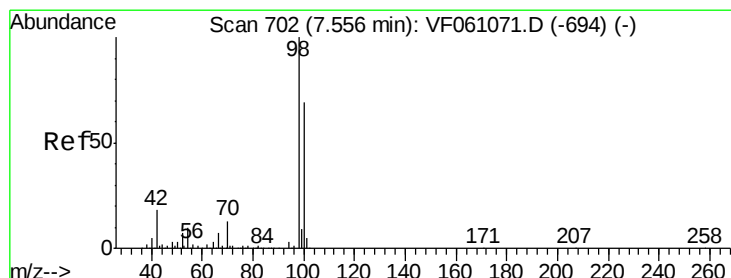
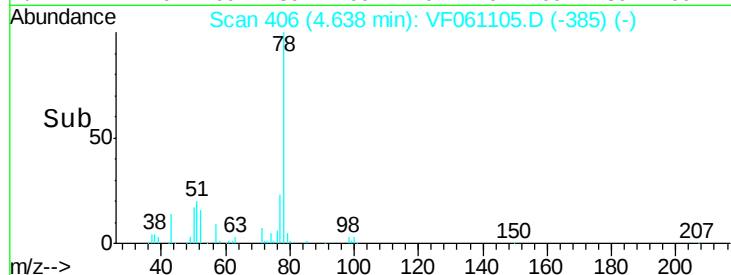
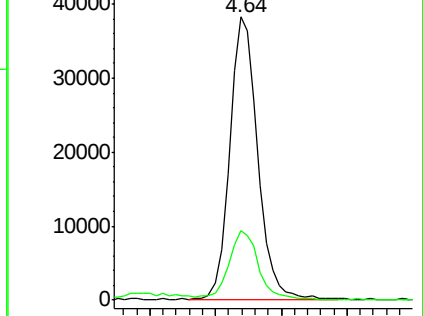
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Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0



#50

Toluene-d8

Concen: 31.731 ug/l

RT: 7.57 min Scan# 703

Delta R.T. 0.01 min

Lab File: VF061105.D

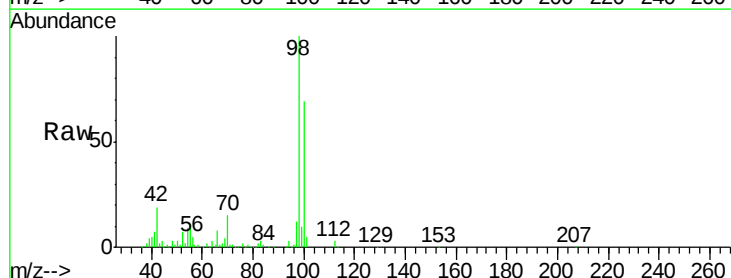
Acq: 20 Dec 2018 13:50

Tgt Ion: 98 Resp: 194084

Ion Ratio Lower Upper

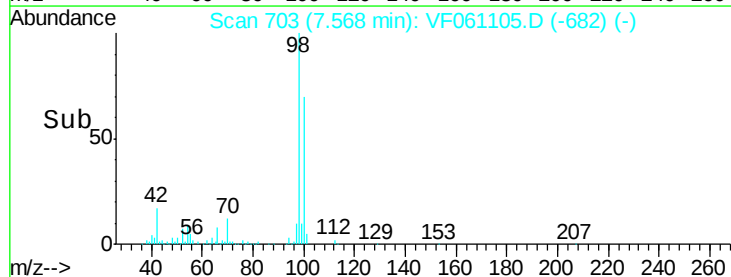
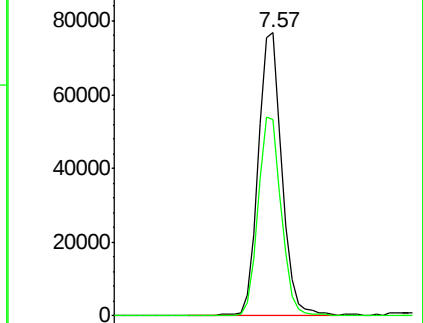
98 100

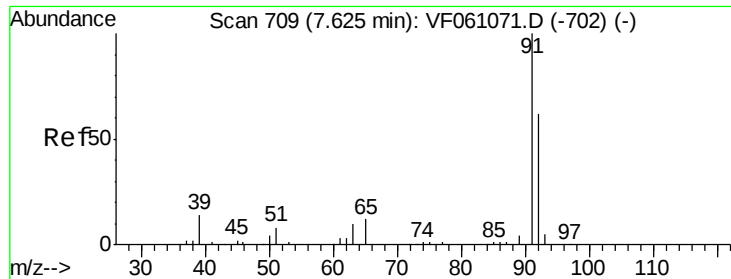
100 69.4 55.3 82.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#52

Toluene

Concen: 29.669 ug/l

RT: 7.64 min Scan# 710

Delta R.T. 0.01 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

Instrument :

MSVOA_F

ClientSampleId :

P001-SD014-0006-01

Tgt Ion: 92 Resp: 137362

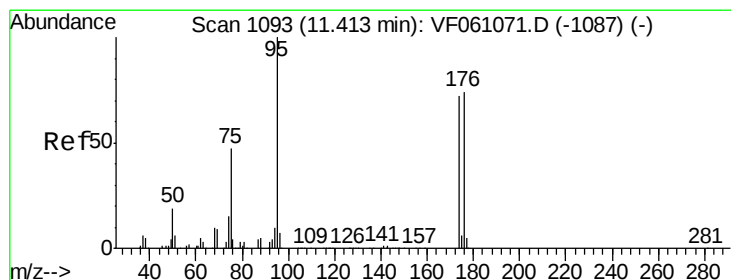
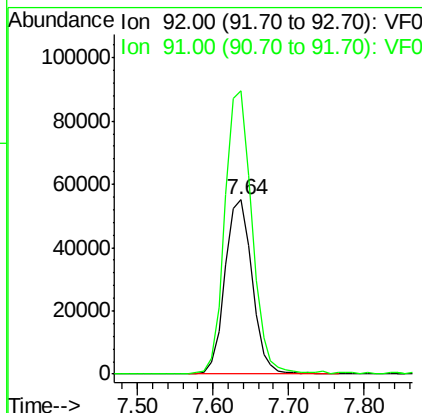
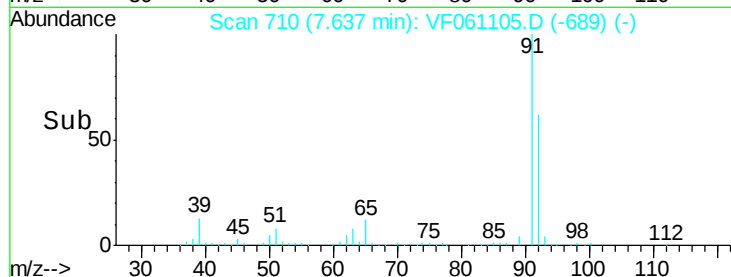
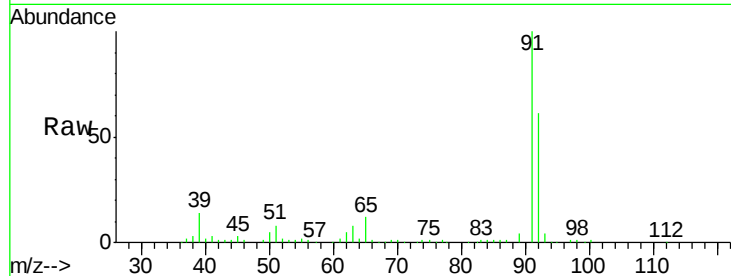
Ion Ratio Lower Upper

92 100

91 162.7 128.8 193.2

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#62

4-Bromofluorobenzene

Concen: 15.099 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.00 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

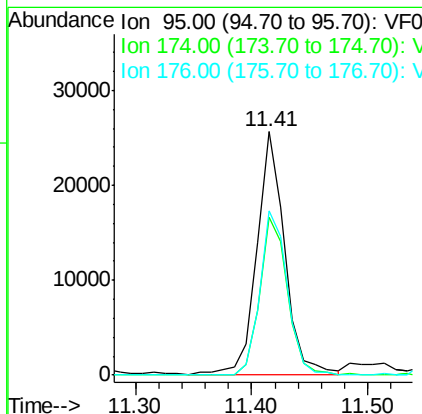
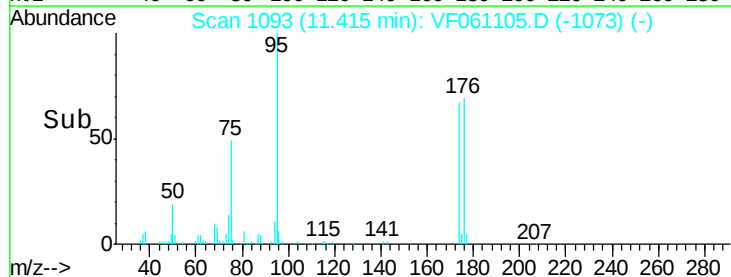
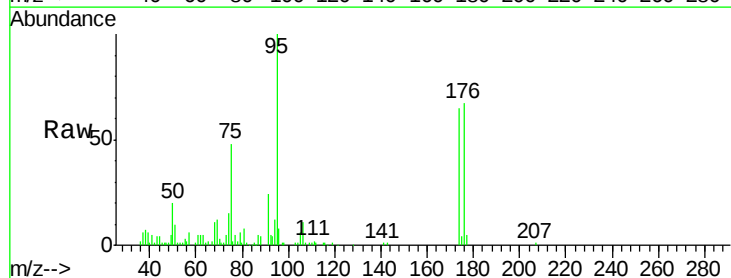
Tgt Ion: 95 Resp: 42575

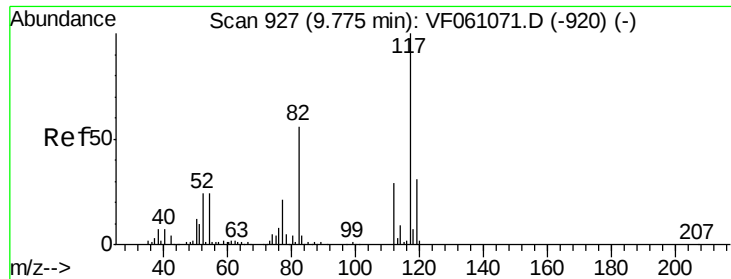
Ion Ratio Lower Upper

95 100

174 64.9 0.0 143.8

176 67.3 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: VF061105.D

Acq: 20 Dec 2018 13:50

Instrument :

MSVOA_F

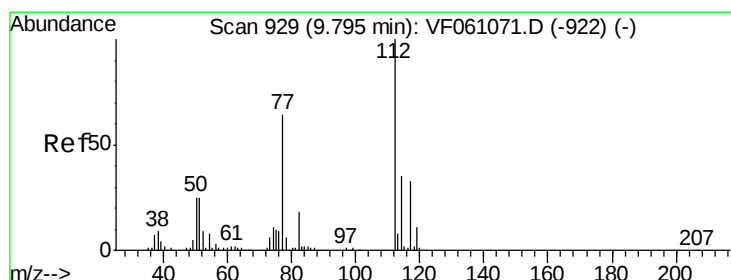
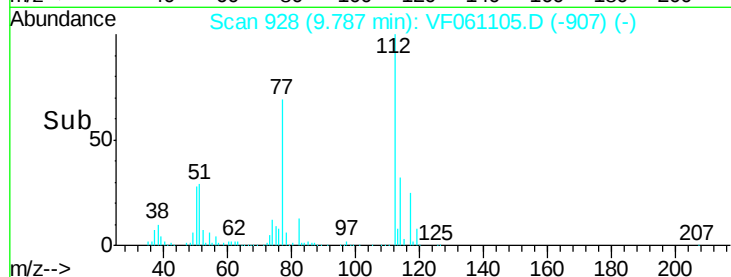
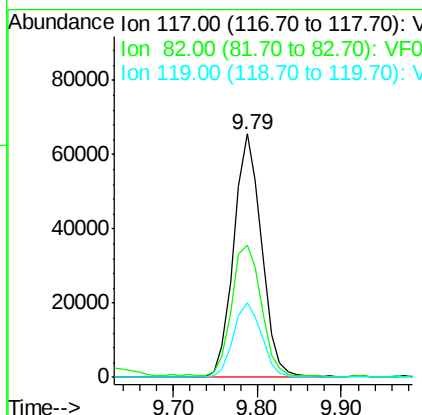
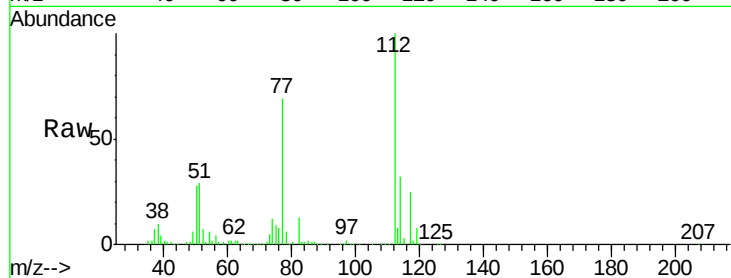
ClientSampleId :

P001-SD014-0006-01

Tgt Ion:	117	Resp:	151470
Ion Ratio	Lower	Upper	
117	100		
82	54.6	45.0	67.4
119	30.6	24.8	37.2

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#65

Chlorobenzene

Concen: 636.984 ug/l

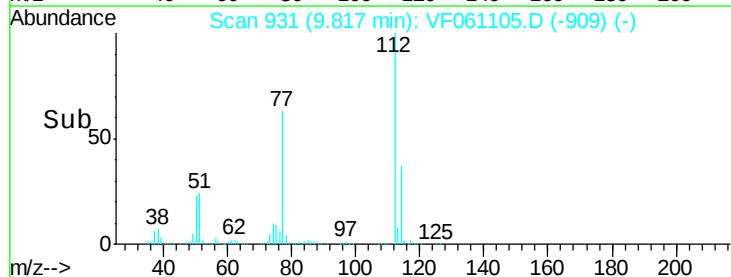
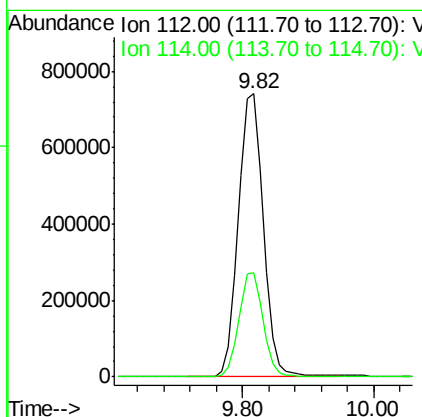
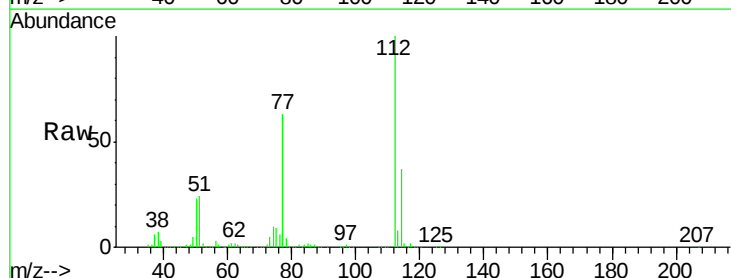
RT: 9.82 min Scan# 931

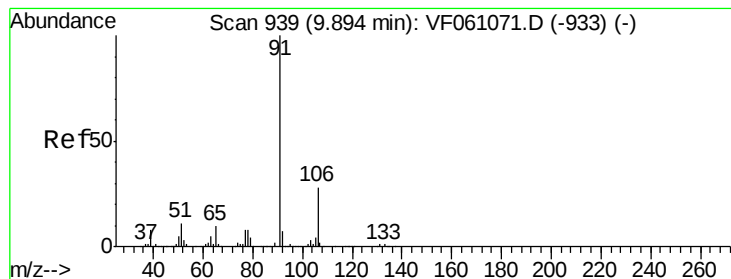
Delta R.T. 0.02 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

Tgt Ion:	112	Resp:	1993227
Ion Ratio	Lower	Upper	
112	100		
114	36.9	27.8	41.6





#67

Ethyl Benzene

Concen: 76.666 ug/l

RT: 9.92 min Scan# 941

Delta R.T. 0.02 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

Instrument :

MSVOA_F

ClientSampleId :

P001-SD014-0006-01

Tgt Ion: 91 Resp: 437055

Ion Ratio Lower Upper

91 100

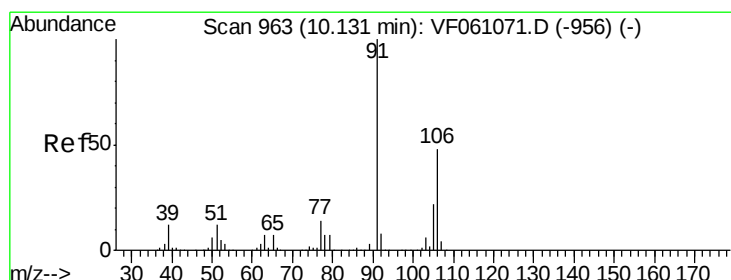
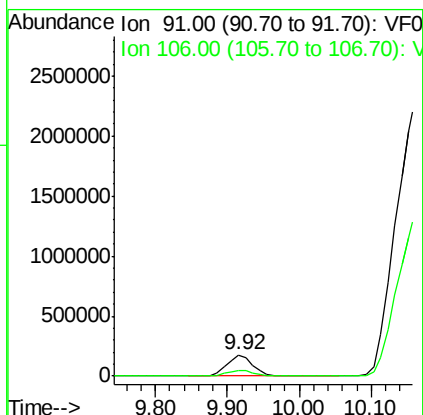
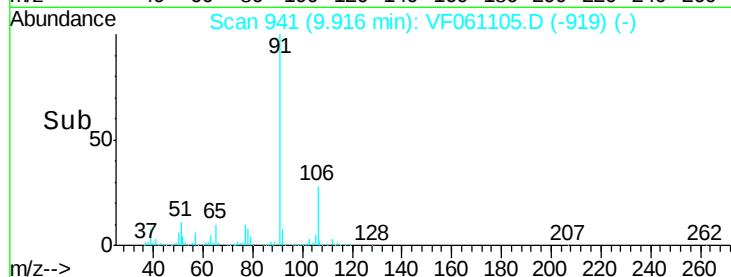
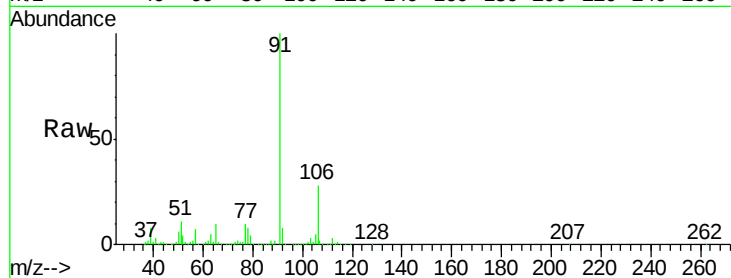
106 28.1 22.5 33.7

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#68

m/p-Xylenes

Concen: 7636.404 ug/l

RT: 10.24 min Scan# 974

Delta R.T. 0.11 min

Lab File: VF061105.D

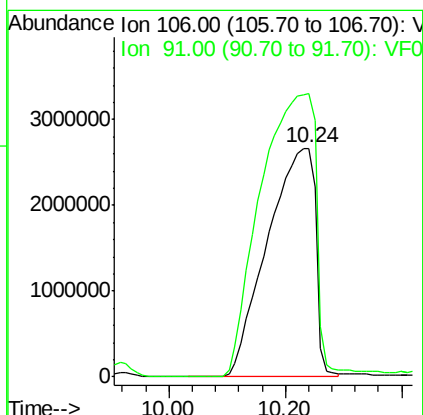
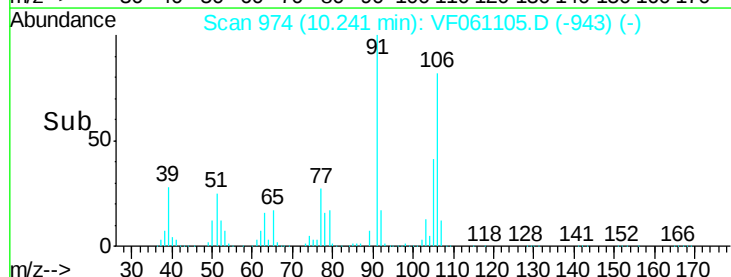
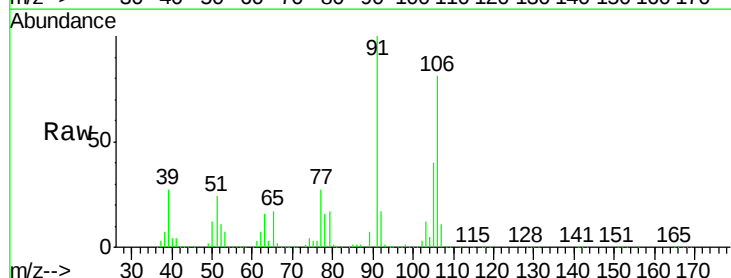
Acq: 20 Dec 2018 13:50

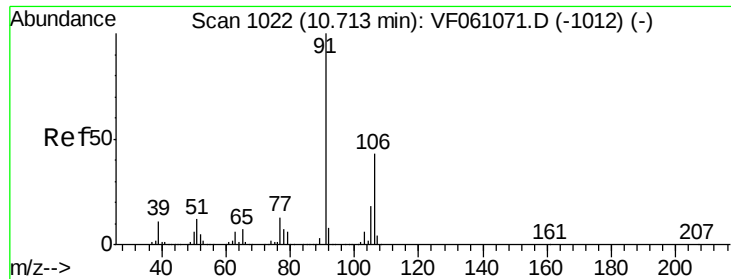
Tgt Ion: 106 Resp: 15320354

Ion Ratio Lower Upper

106 100

91 123.8 168.2 252.2#





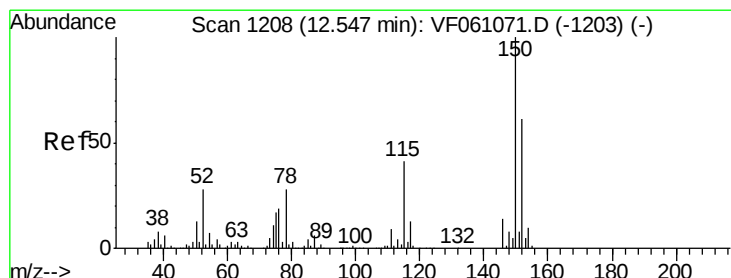
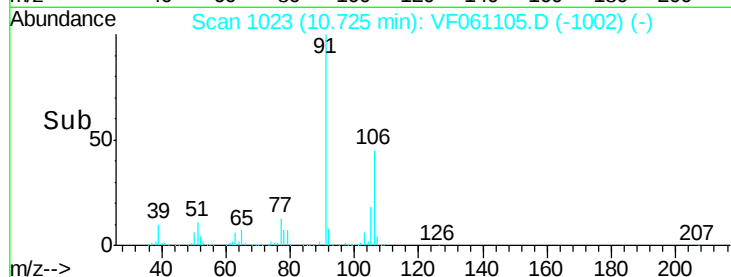
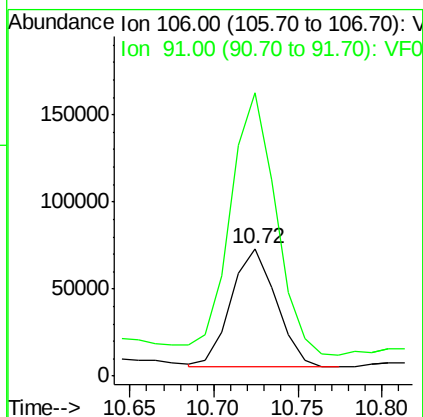
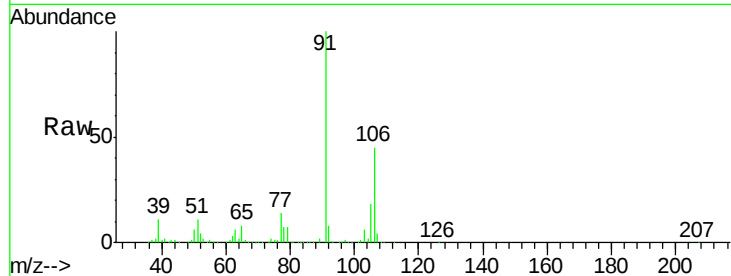
#69
o-Xylene
Concen: 56.896 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. 0.01 min
Lab File: VF061105.D
Acq: 20 Dec 2018 13:50

Instrument :
MSVOA_F
ClientSampleId :
P001-SD014-0006-01

Tgt Ion:106 Resp: 126597
Ion Ratio Lower Upper
106 100
91 222.0 115.9 347.7

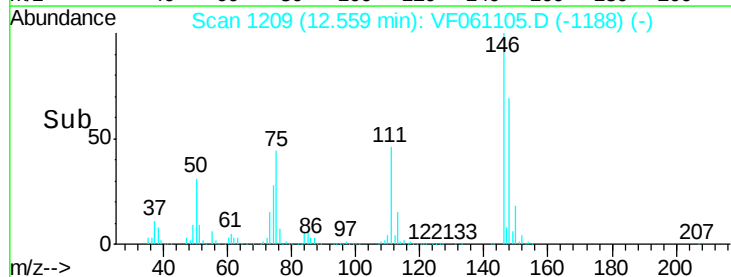
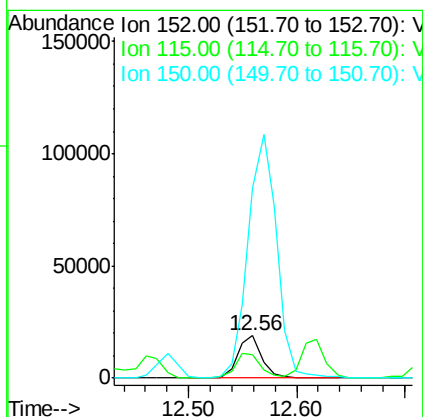
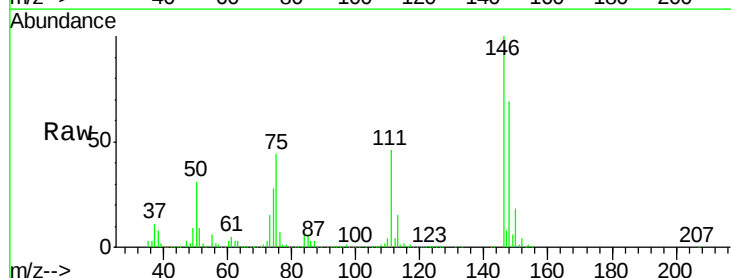
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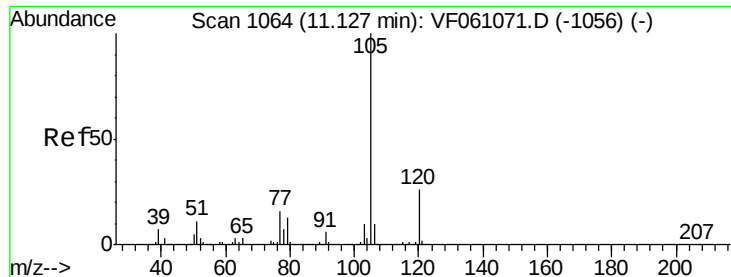
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1209
Delta R.T. 0.01 min
Lab File: VF061105.D
Acq: 20 Dec 2018 13:50

Tgt Ion:152 Resp: 29244
Ion Ratio Lower Upper
152 100
115 57.0 33.3 99.9
150 449.1 0.0 328.2#





#73

Isopropylbenzene

Concen: 124.760 ug/l

RT: 11.13 min Scan# 1064

Delta R.T. 0.00 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

Instrument :

MSVOA_F

ClientSampleId :

P001-SD014-0006-01

Tgt Ion:105 Resp: 314408

Ion Ratio Lower Upper

105 100

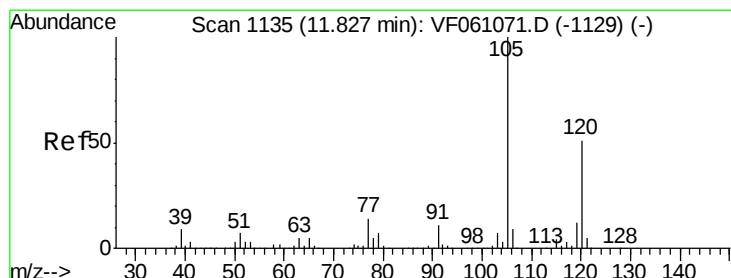
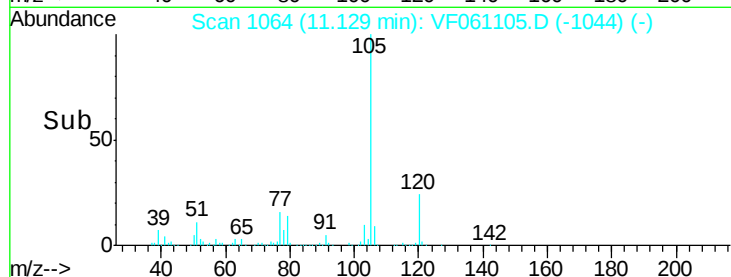
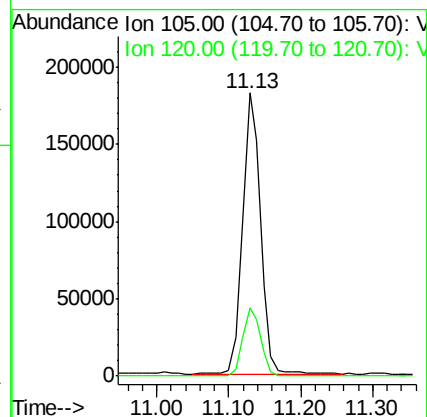
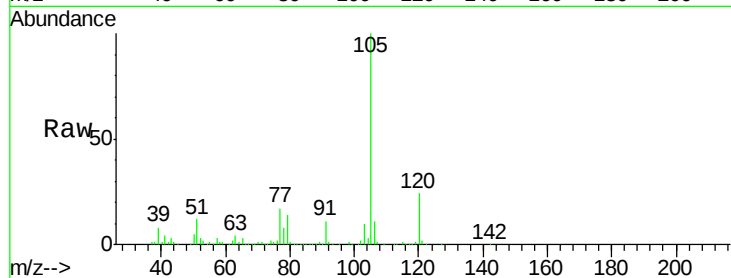
120 24.0 13.0 39.0

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#80

1,3,5-Trimethylbenzene

Concen: 306.478 ug/l

RT: 11.83 min Scan# 1135

Delta R.T. 0.00 min

Lab File: VF061105.D

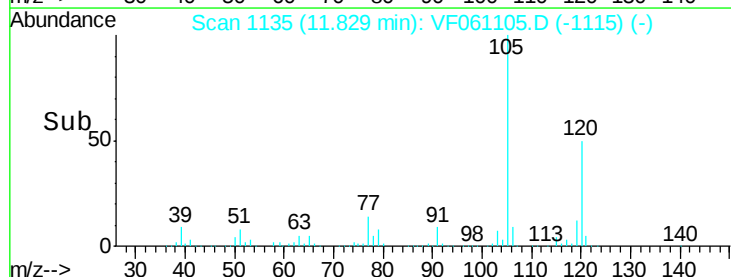
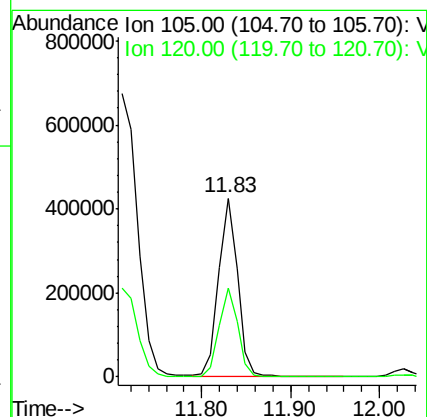
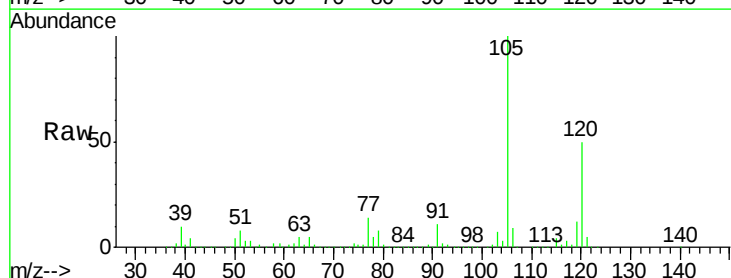
Acq: 20 Dec 2018 13:50

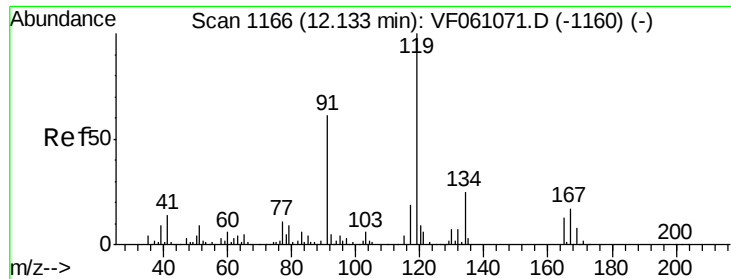
Tgt Ion:105 Resp: 635978

Ion Ratio Lower Upper

105 100

120 49.6 25.4 76.4





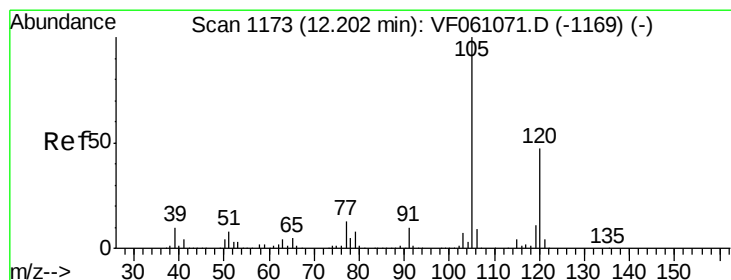
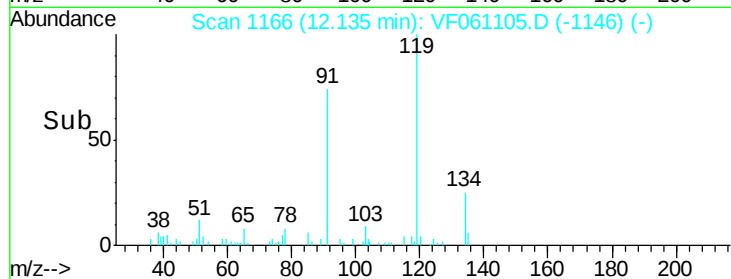
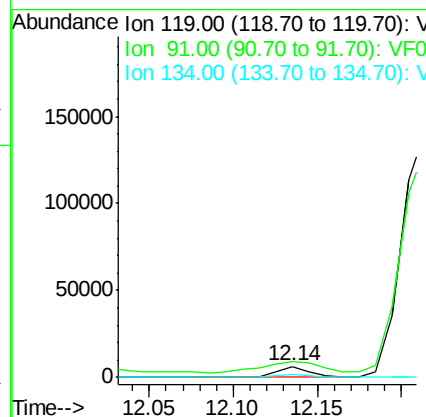
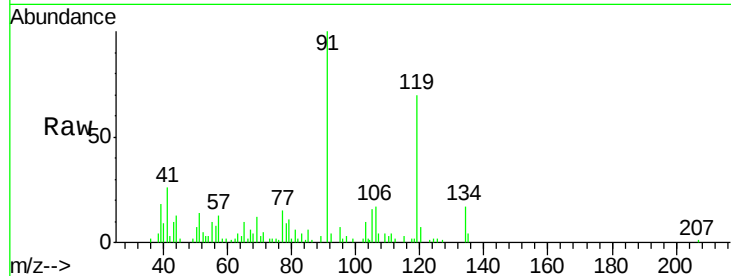
#83
 tert-Butylbenzene
 Concen: 4.033 ug/l
 RT: 12.14 min Scan# 1166
 Delta R.T. 0.00 min
 Lab File: VF061105.D
 Acq: 20 Dec 2018 13:50

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD014-0006-01

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	8612		
91	142.0	30.5	91.5#	
134	24.5	12.4	37.4	

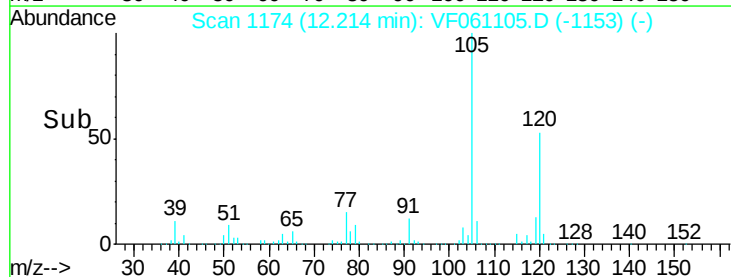
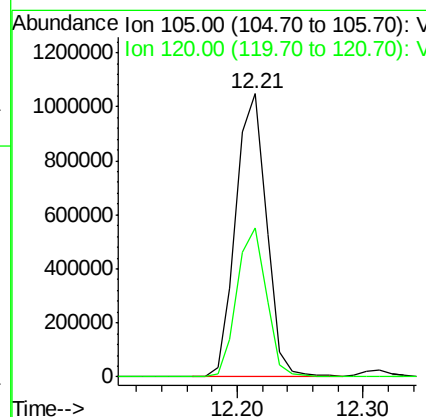
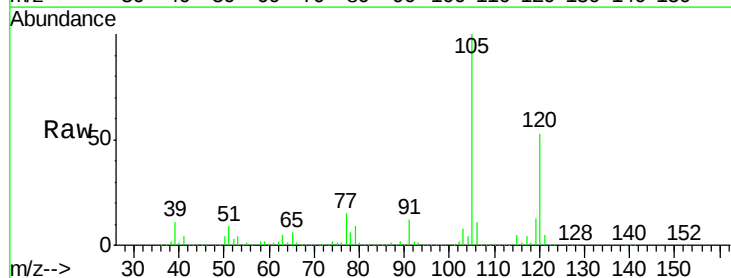
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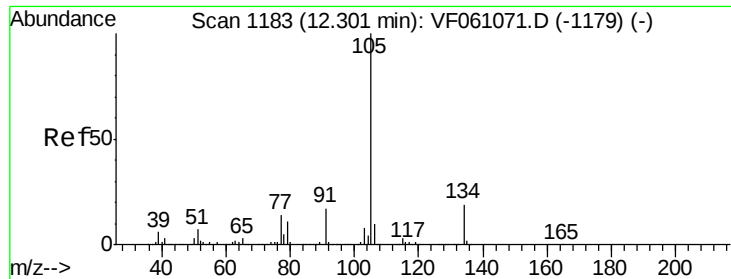
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#84
 1,2,4-Trimethylbenzene
 Concen: 850.547 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. 0.01 min
 Lab File: VF061105.D
 Acq: 20 Dec 2018 13:50

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	1760070		
120	52.8	23.6	71.0	





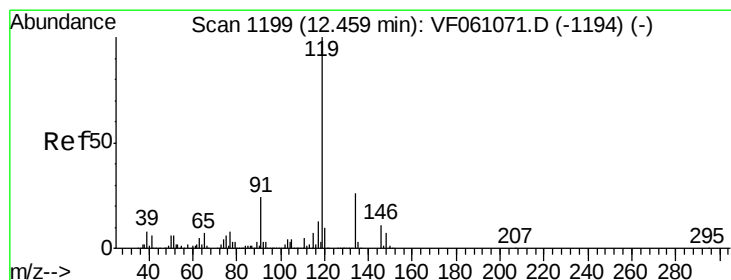
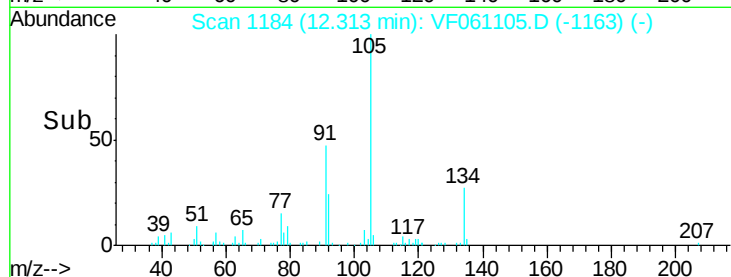
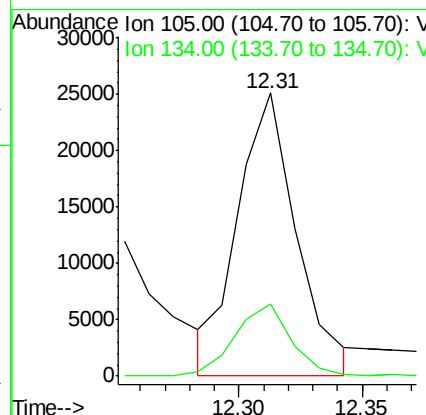
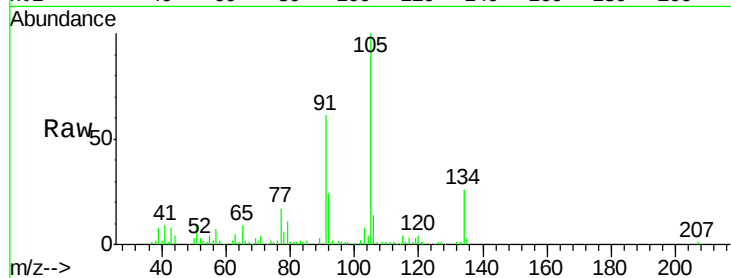
#85
 sec-Butylbenzene
 Concen: 14.985 ug/l m
 RT: 12.31 min Scan# 1184
 Delta R.T. 0.01 min
 Lab File: VF061105.D
 Acq: 20 Dec 2018 13:50

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD014-0006-01

Tgt Ion:105 Resp: 41759
 Ion Ratio Lower Upper
 105 100
 134 25.7 9.4 28.2

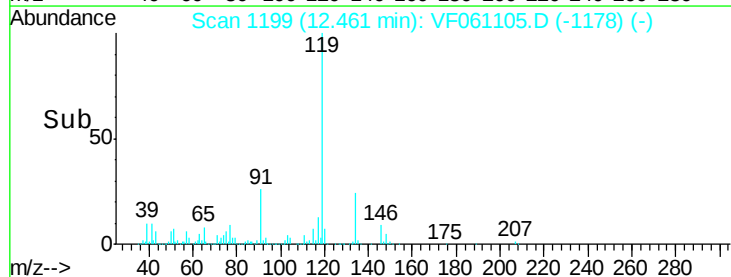
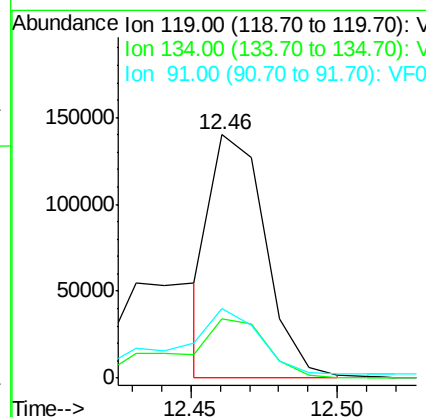
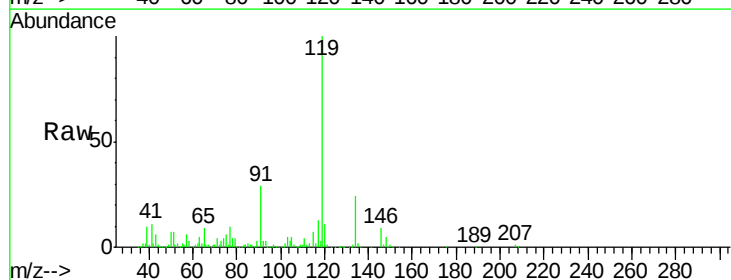
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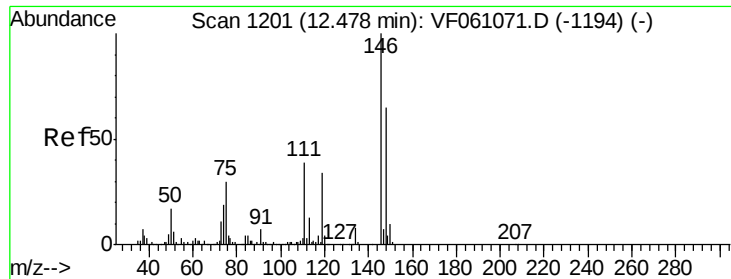
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#86
 p-Isopropyltoluene
 Concen: 78.812 ug/l m
 RT: 12.46 min Scan# 1199
 Delta R.T. 0.00 min
 Lab File: VF061105.D
 Acq: 20 Dec 2018 13:50

Tgt Ion:119 Resp: 182296
 Ion Ratio Lower Upper
 119 100
 134 24.2 12.8 38.4
 91 28.8 12.2 36.6





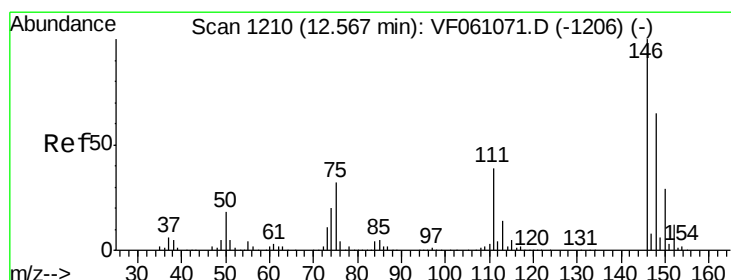
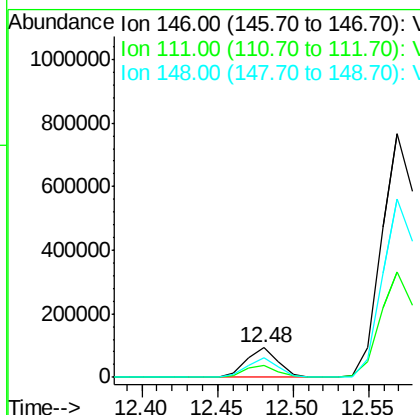
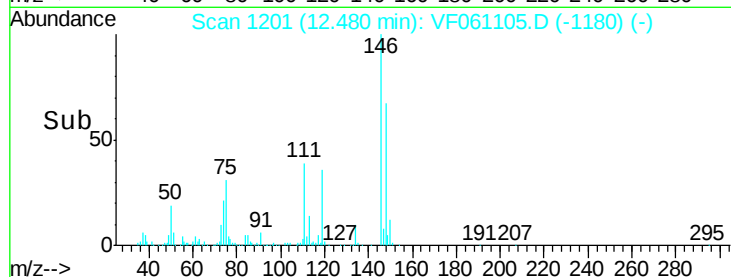
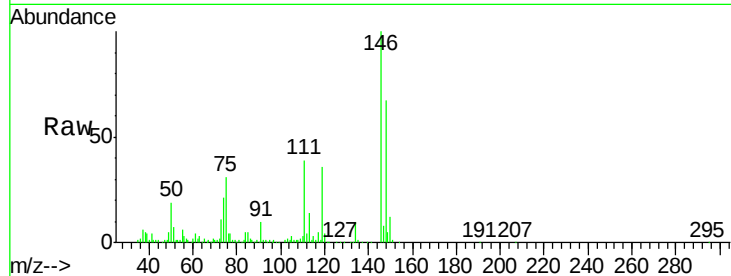
#87
 1,3-Dichlorobenzene
 Concen: 167.878 ug/l
 RT: 12.48 min Scan# 1201
 Delta R.T. 0.00 min
 Lab File: VF061105.D
 Acq: 20 Dec 2018 13:50

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD014-0006-01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.0	19.3	57.9
148	67.4	32.4	97.2

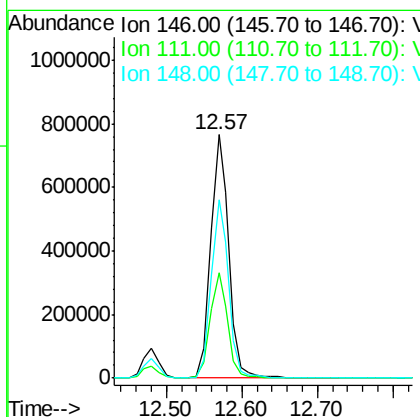
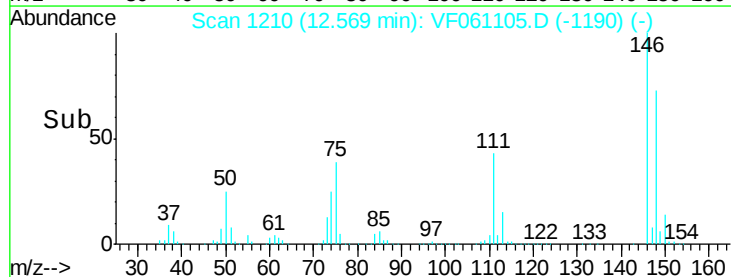
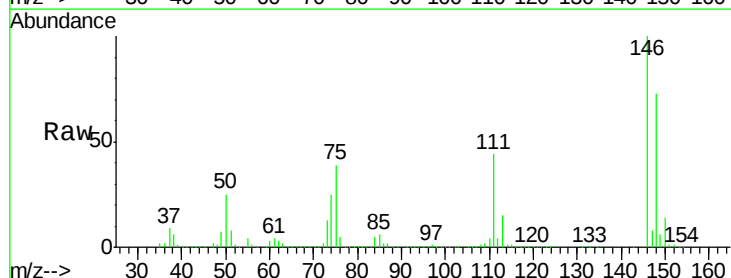
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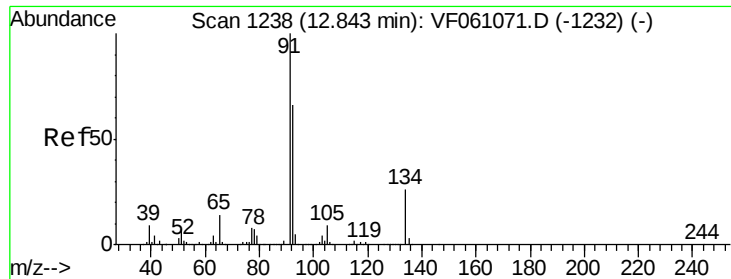
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#88
 1,4-Dichlorobenzene
 Concen: 1290.160 ug/l
 RT: 12.57 min Scan# 1210
 Delta R.T. 0.00 min
 Lab File: VF061105.D
 Acq: 20 Dec 2018 13:50

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.5	19.4	58.4
148	73.2	32.4	97.0





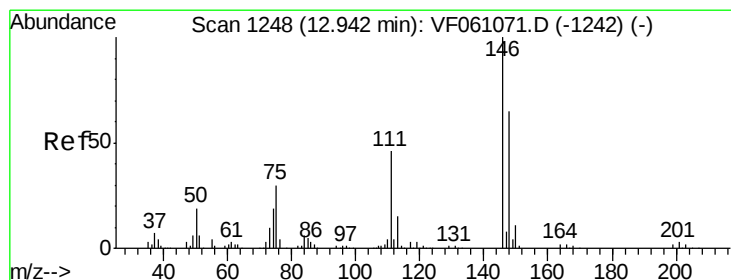
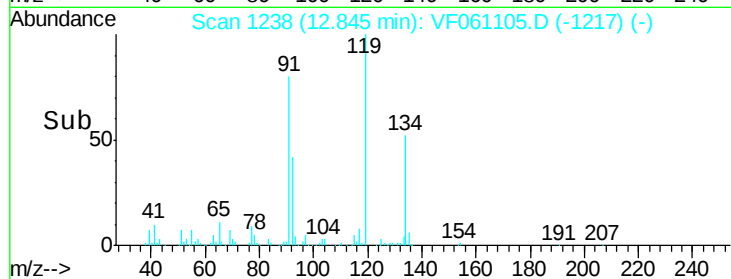
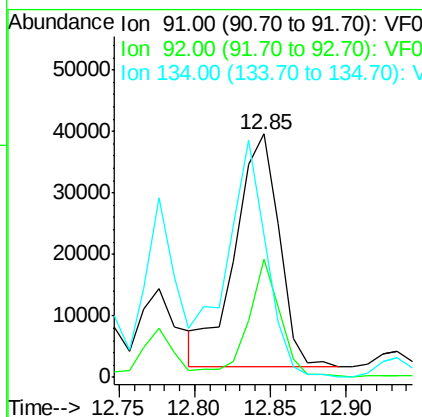
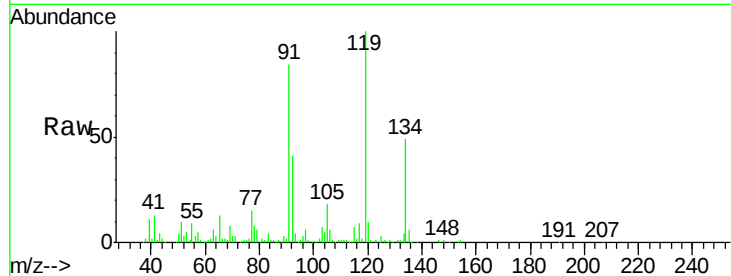
#89
n-Butylbenzene
Concen: 30.070 ug/l
RT: 12.85 min Scan# 1238
Delta R.T. 0.00 min
Lab File: VF061105.D
Acq: 20 Dec 2018 13:50

Instrument :
MSVOA_F
ClientSampleId :
P001-SD014-0006-01

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	76720		
92	48.5	32.8	98.4	
134	58.4	13.2	39.5#	

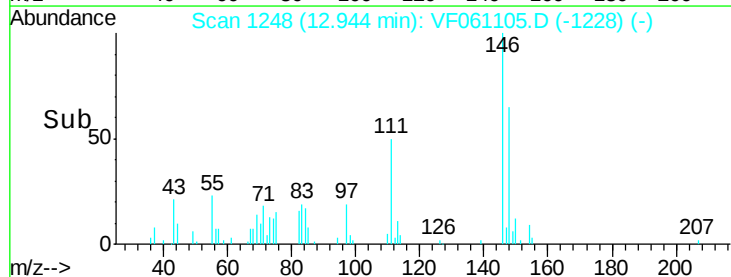
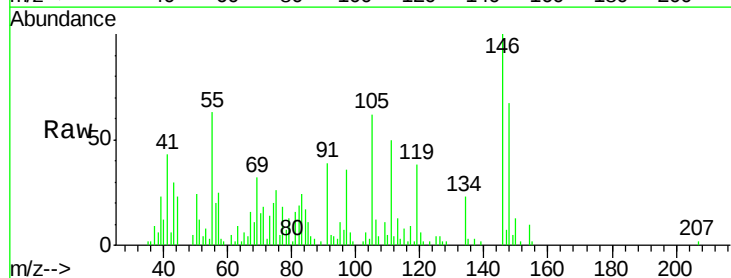
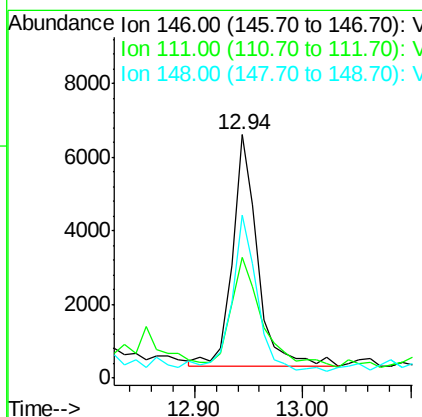
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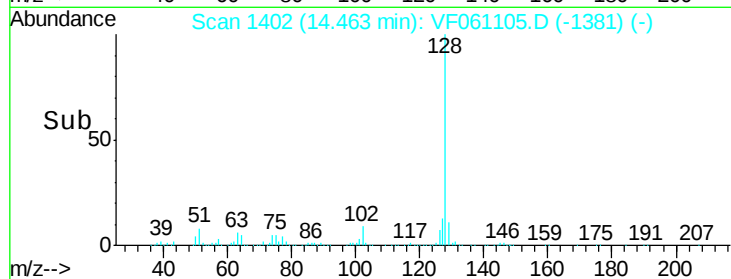
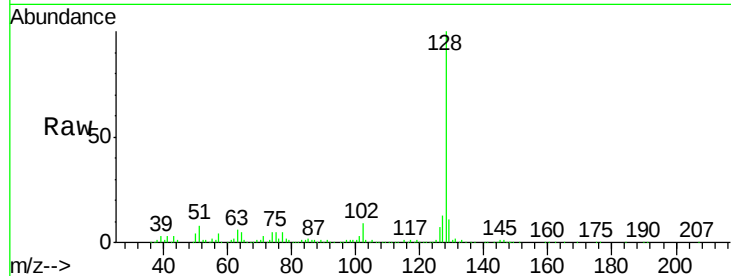
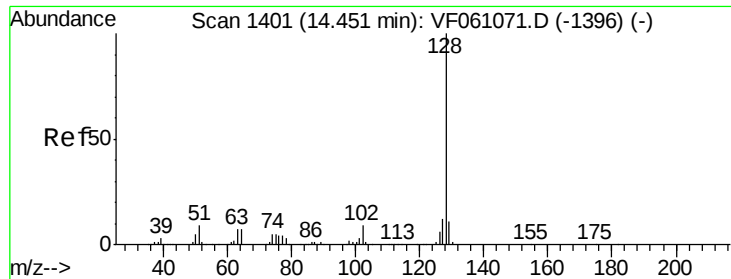
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#91
1,2-Dichlorobenzene
Concen: 10.512 ug/l
RT: 12.94 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VF061105.D
Acq: 20 Dec 2018 13:50

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	10195		
111	49.8	23.2	69.5	
148	66.8	32.4	97.0	





#95

Naphthalene

Concen: 209.380 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. 0.01 min

Lab File: VF061105.D

Acq: 20 Dec 2018 13:50

Instrument :

MSVOA_F

ClientSampleId :

P001-SD014-0006-01

Tgt	Ion	Ratio	Resp	Lower	Upper
128	100		262971		
127	13.1	9.4	14.2		
129	11.3	8.8	13.2		

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