

Data Path : Z:\voasrv\HPCHEM1\MSVOA F\Data\VF122018\
 Data File : VF061104.D
 Acq On : 20 Dec 2018 13:21
 Operator : VA/AP
 Sample : J6377-02
 Misc : 2.78g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD012-0612-02

Manual Integrations
 APPROVED

MMDadoda
 1/3/2019 11:36:53 AM

Quant Time: Mar 01 03:27:41 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	86927	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	151781	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	88516	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.55	152	23319	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.85	65	53187	47.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.14%	
35) Dibromofluoromethane	4.12	113	57093	46.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.92%	
50) Toluene-d8	7.57	98	118927	34.52	ug/l	0.02
Spiked Amount	50.000		Recovery	=	69.04%	
62) 4-Bromofluorobenzene	11.42	95	31238	19.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.34%	

Target Compounds

						Qvalue
27) cis-1,2-Dichloroethene	3.49	96	8051	6.417	ug/l	92
31) Cyclohexane	3.69	56	217200	133.001	ug/l	91
39) Methylcyclohexane	5.46	83	204357	124.332	ug/l	98
40) Benzene	4.63	78	631229	160.212	ug/l	96
52) Toluene	7.66	92	6901698	2646.316	ug/l #	70
65) Chlorobenzene	9.81	112	2145272	1173.165	ug/l	95
67) Ethyl Benzene	9.92	91	5239428	1572.739	ug/l #	83
68) m/p-Xylenes	10.23	106	12783046	10903.333	ug/l #	47
69) o-Xylene	10.75	106	3233910	2487.099	ug/l	66
73) Isopropylbenzene	11.13	105	247326m	123.077	ug/l	
80) 1,3,5-Trimethylbenzene	11.83	105	463569	280.155	ug/l	99
84) 1,2,4-Trimethylbenzene	12.21	105	1287708	780.392	ug/l	95
85) sec-Butylbenzene	12.31	105	30213m	13.597	ug/l	
86) p-Isopropyltoluene	12.46	119	346247m	187.727	ug/l	
87) 1,3-Dichlorobenzene	12.48	146	157473	243.926	ug/l	98
88) 1,4-Dichlorobenzene	12.57	146	1170970	1474.167	ug/l	90
89) n-Butylbenzene	12.85	91	60072	29.454	ug/l #	78
91) 1,2-Dichlorobenzene	12.95	146	21536	27.848	ug/l	96
95) Naphthalene	14.46	128	405433	404.830	ug/l	98

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

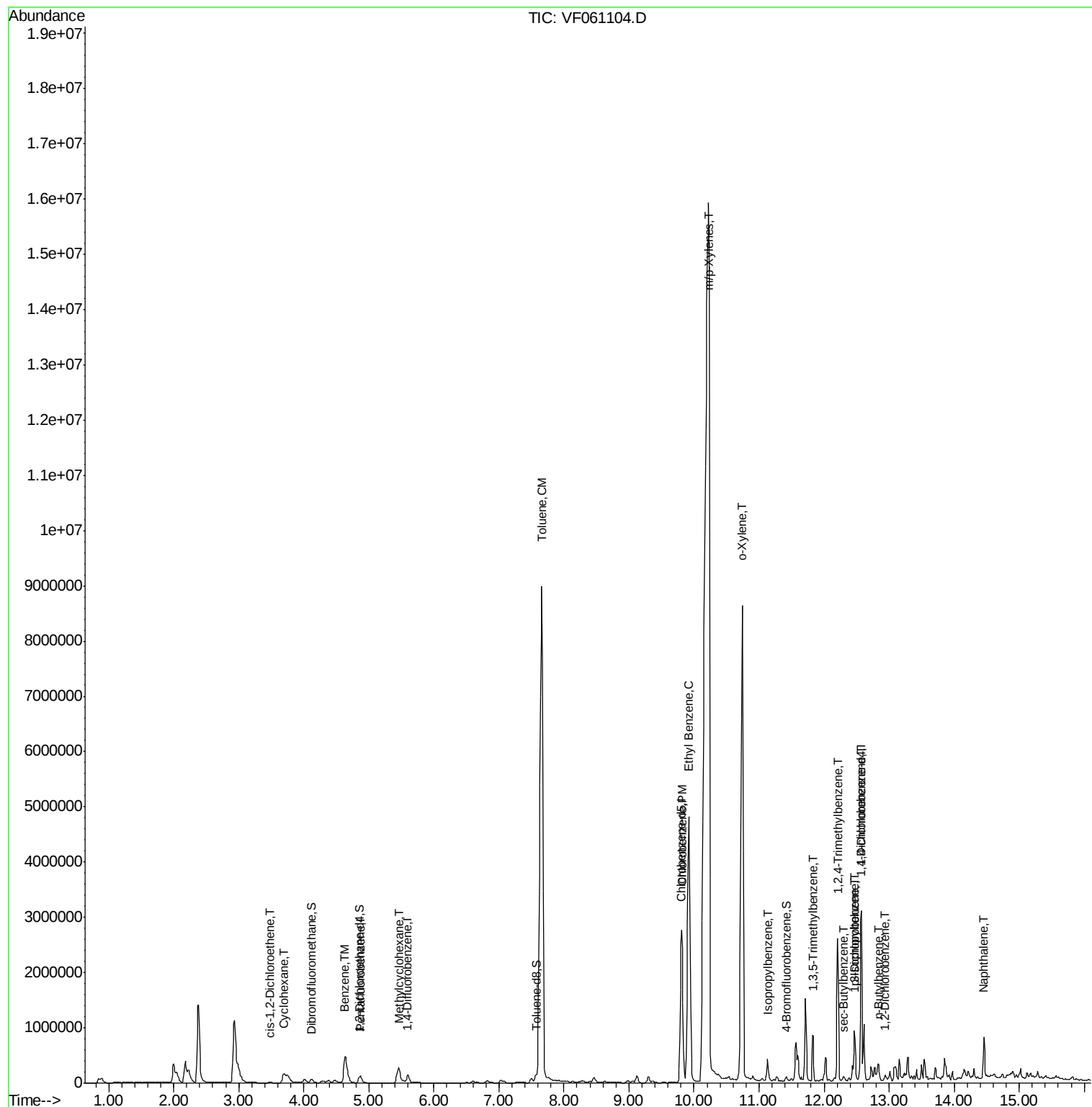
Data Path : Z:\voasrv\HPCHEM1\MSVOA F\Data\VF122018\
Data File : VF061104.D
Acq On : 20 Dec 2018 13:21
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MSVOA_F
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P001-SD012-0612-02

Manual Integrations
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1/3/2019 11:36:53 AM

Quant Time: Mar 01 03:27:41 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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.00 min

Lab File: VF061104.D

Acq: 20 Dec 2018 13:21

Instrument :

MSVOA_F

ClientSampleId :

P001-SD012-0612-02

Tot Ion:168 Resp: 86927

Ion Ratio Lower Upper

168 100

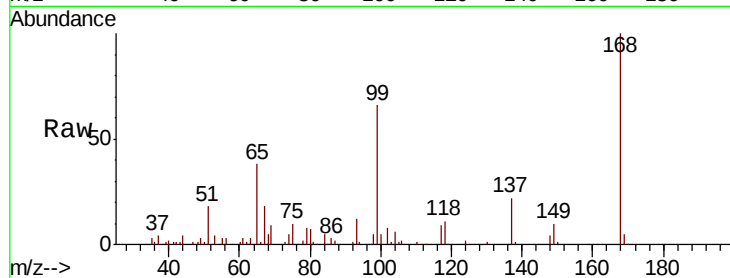
99 66.3 54.4 81.6

Manual Integrations

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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

30000

25000

20000

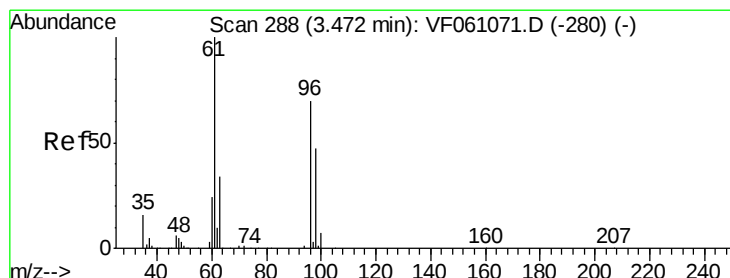
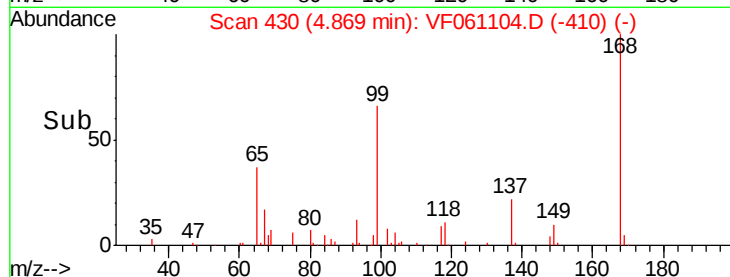
15000

10000

5000

0

Time--> 4.70 4.80 4.90 5.00



#27

cis-1,2-Dichloroethene

Concen: 6.417 ug/l

RT: 3.49 min Scan# 290

Delta R.T. 0.02 min

Lab File: VF061104.D

Acq: 20 Dec 2018 13:21

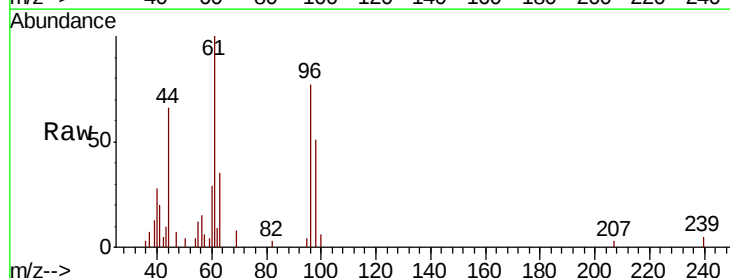
Tgt Ion: 96 Resp: 8051

Ion Ratio Lower Upper

96 100

61 130.6 0.0 287.8

98 66.2 0.0 134.2



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

5000

4000

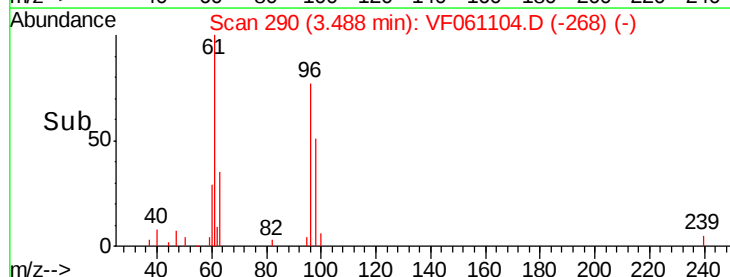
3000

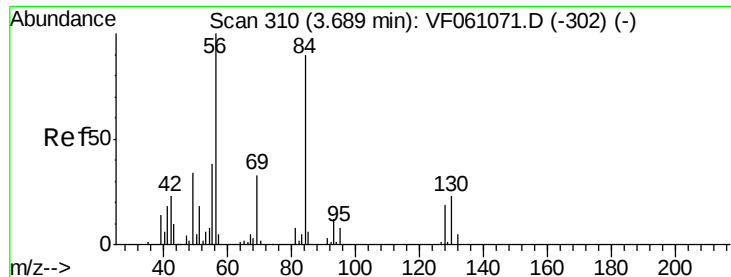
2000

1000

0

Time--> 3.30 3.40 3.50 3.60





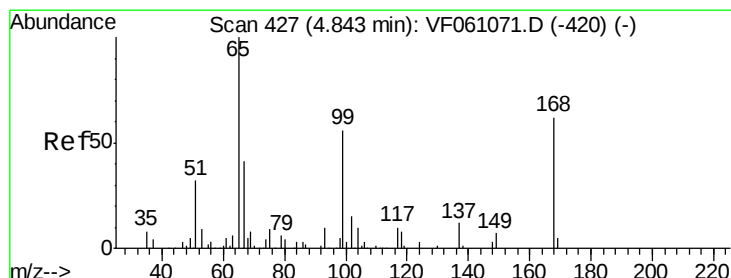
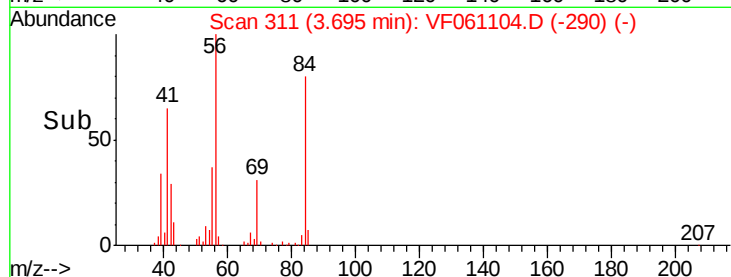
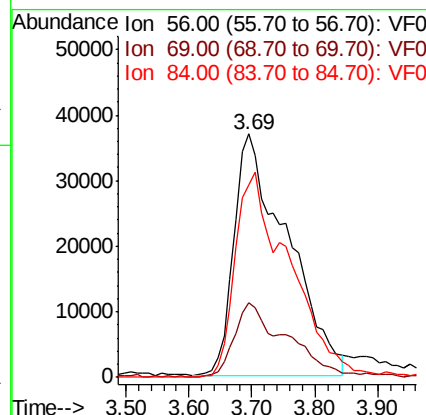
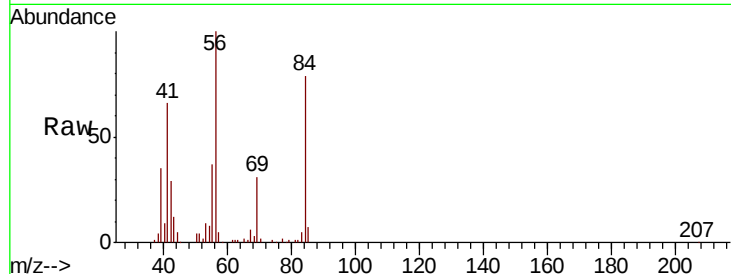
#31
Cyclohexane
Concen: 133.001 ug/l
RT: 3.69 min Scan# 311
Delta R.T. 0.01 min
Lab File: VF061104.D
Acq: 20 Dec 2018 13:21

Instrument :
MSVOA_F
ClientSampleId :
P001-SD012-0612-02

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.8	26.0	39.0
84	79.2	71.4	107.2

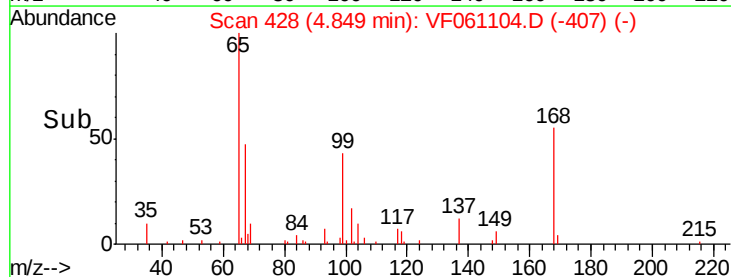
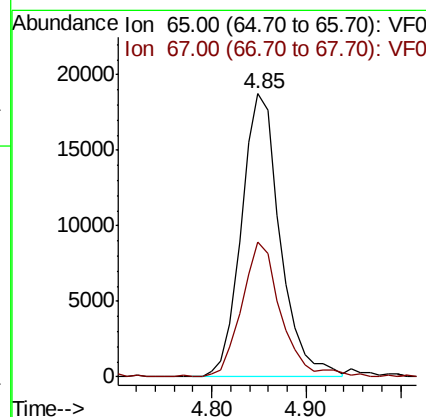
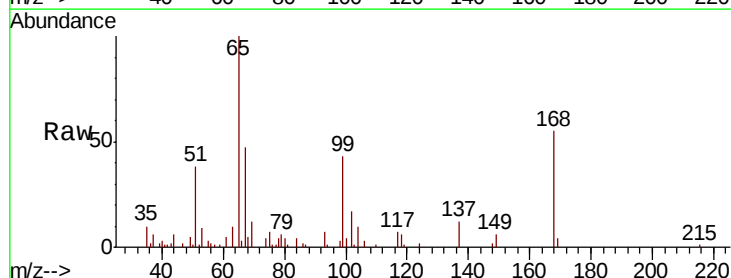
Manual Integrations
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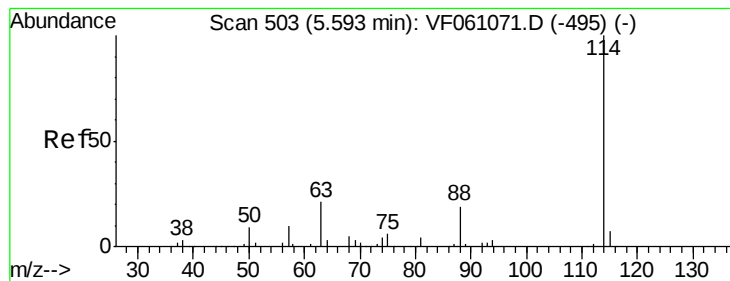
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#33
1,2-Dichloroethane-d4
Concen: 47.572 ug/l
RT: 4.85 min Scan# 428
Delta R.T. 0.01 min
Lab File: VF061104.D
Acq: 20 Dec 2018 13:21

Tgt Ion	Ratio	Lower	Upper
65	100		
67	47.5	0.0	94.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.01 min

Lab File: VF061104.D

Acq: 20 Dec 2018 13:21

Instrument :

MSVOA_F

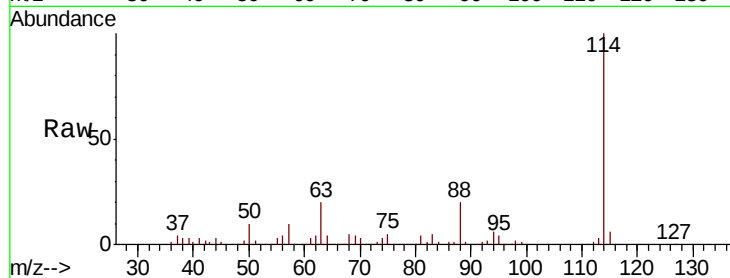
ClientSampleId :

P001-SD012-0612-02

Tot Ion:	114	Resp:	151781
Ion Ratio	Lower	Upper	
114	100		
63	20.5	0.0	41.6
88	20.1	0.0	38.0

Manual Integrations
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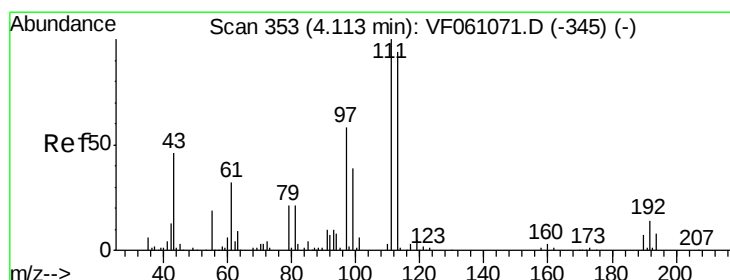
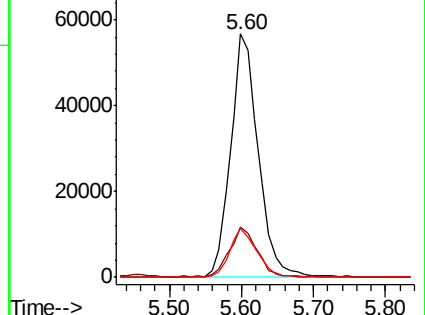
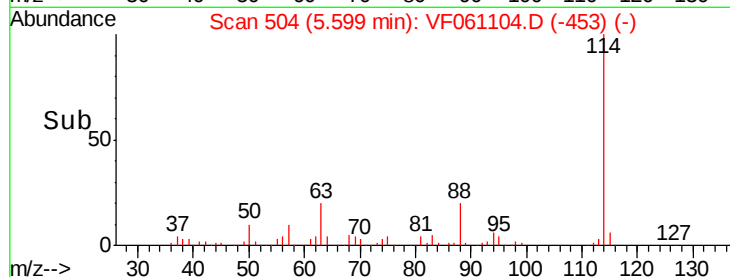
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Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 46.957 ug/l

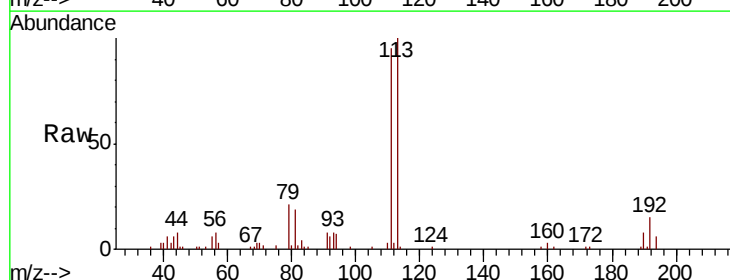
RT: 4.12 min Scan# 354

Delta R.T. 0.01 min

Lab File: VF061104.D

Acq: 20 Dec 2018 13:21

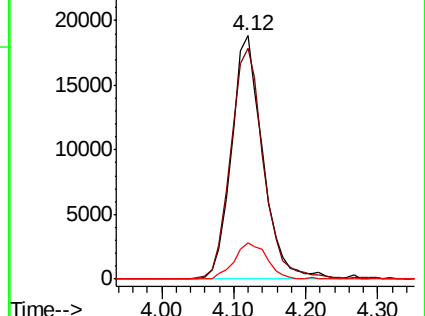
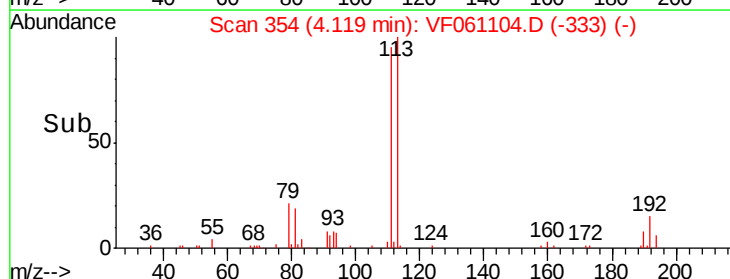
Tgt Ion:	113	Resp:	57093
Ion Ratio	Lower	Upper	
113	100		
111	94.9	85.2	127.8
192	14.9	12.8	19.2

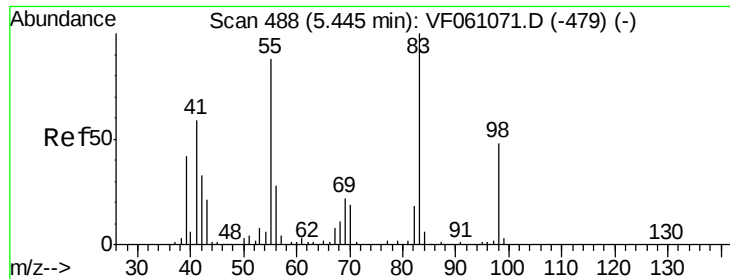


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





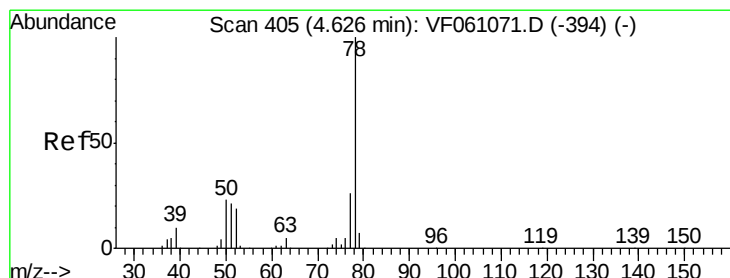
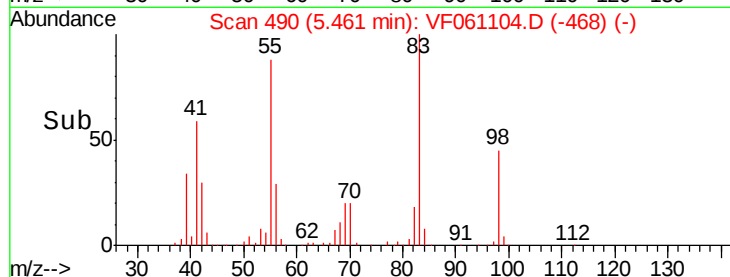
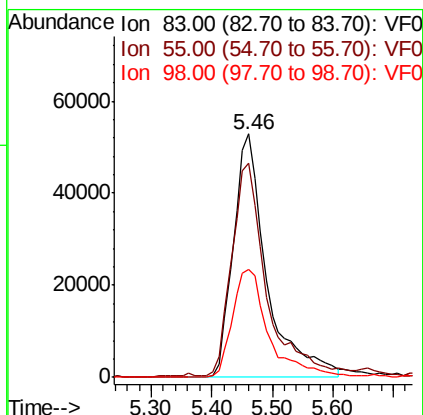
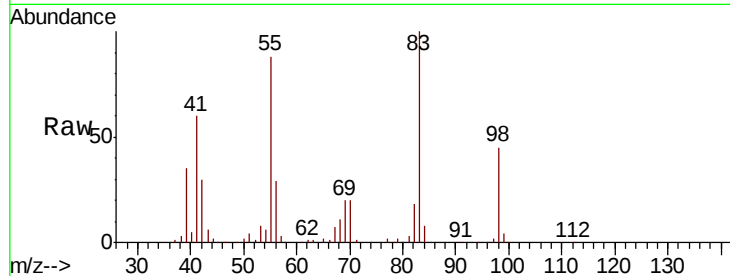
#39
Methvlcvclohexane
Concen: 124.332 ug/l
RT: 5.46 min Scan# 490
Delta R.T. 0.02 min
Lab File: VF061104.D
Acq: 20 Dec 2018 13:21

Instrument :
MSVOA_F
ClientSampleId :
P001-SD012-0612-02

Tot Ion	Ratio	Resp	Lower	Upper
83	100	204357		
55	88.1		70.6	105.8
98	44.6		38.5	57.7

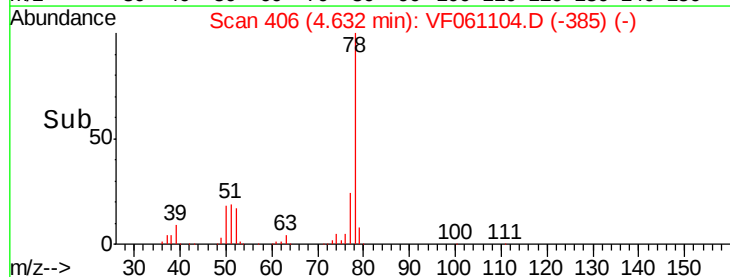
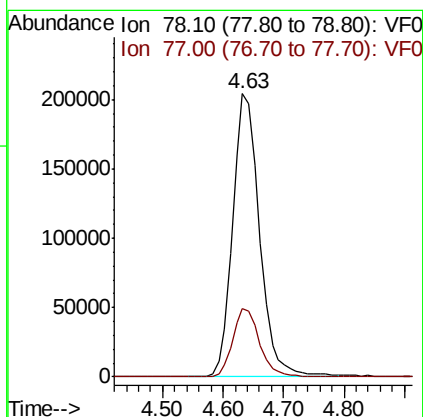
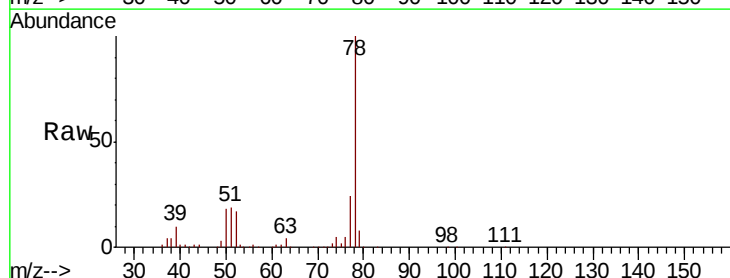
Manual Integrations
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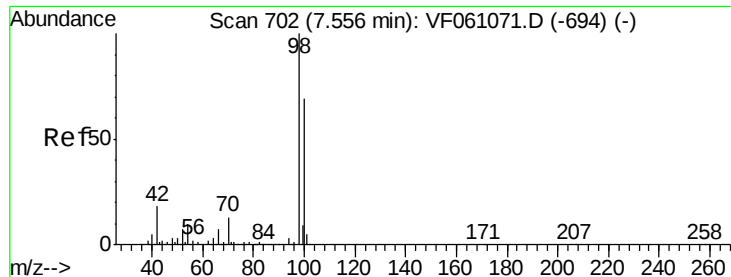
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#40
Benzene
Concen: 160.212 ug/l
RT: 4.63 min Scan# 406
Delta R.T. 0.01 min
Lab File: VF061104.D
Acq: 20 Dec 2018 13:21

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	631229		
77	24.0		20.7	31.1





#50

Toluene-d8

Concen: 34.516 ug/l

RT: 7.57 min Scan# 704

Delta R.T. 0.02 min

Lab File: VF061104.D

Acq: 20 Dec 2018 13:21

Instrument :

MSVOA_F

ClientSampleId :

P001-SD012-0612-02

Tot Ion: 98 Resp: 118927

Ion Ratio Lower Upper

98 100

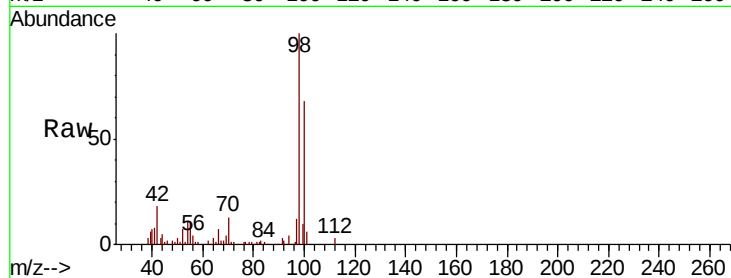
100 68.4 55.3 82.9

Manual Integrations

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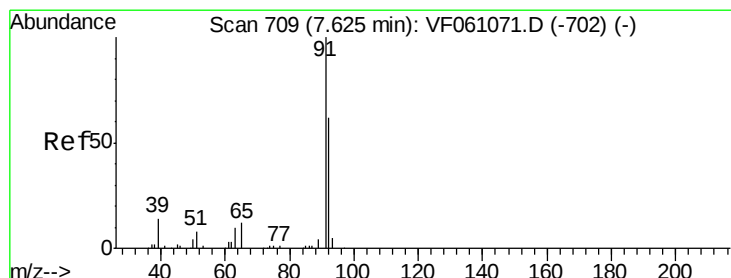
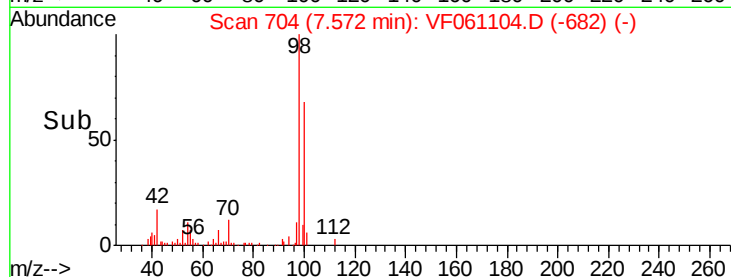
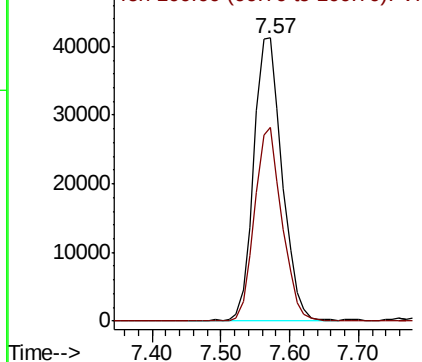
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Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#52

Toluene

Concen: 2646.316 ug/l

RT: 7.66 min Scan# 713

Delta R.T. 0.04 min

Lab File: VF061104.D

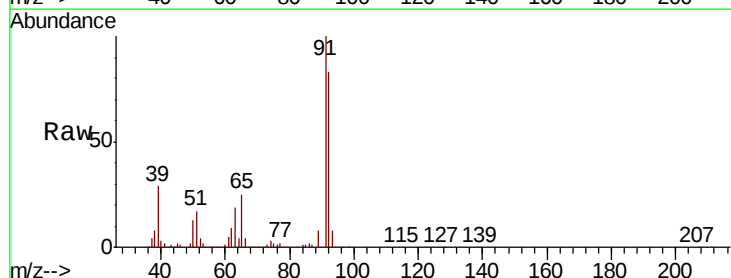
Acq: 20 Dec 2018 13:21

Tgt Ion: 92 Resp: 6901698

Ion Ratio Lower Upper

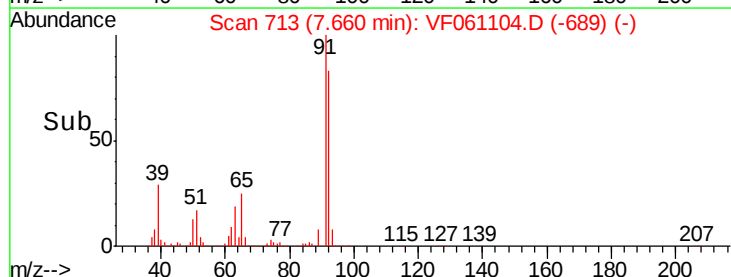
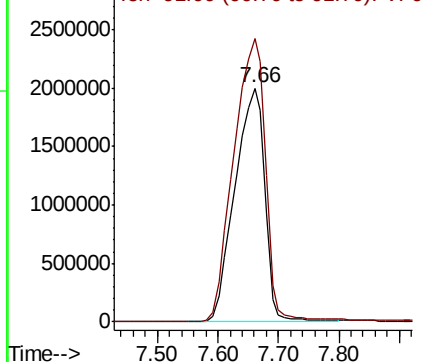
92 100

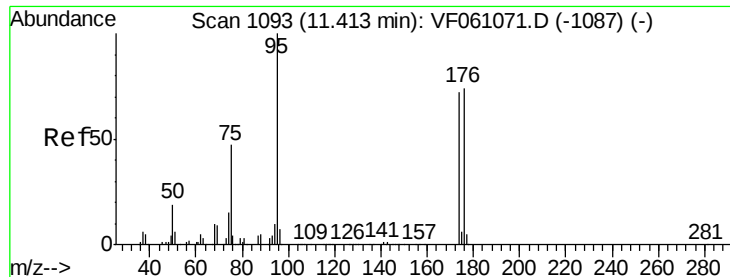
91 120.9 128.8 193.2#



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





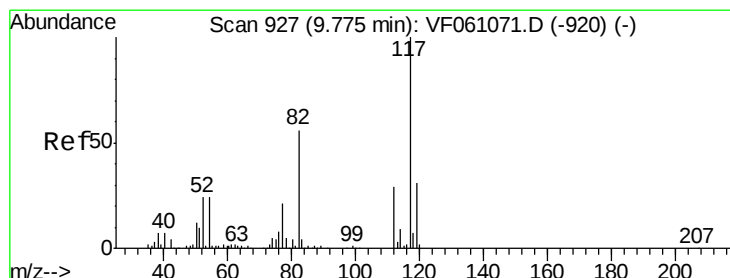
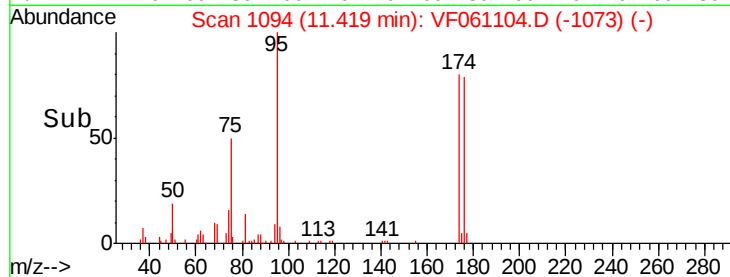
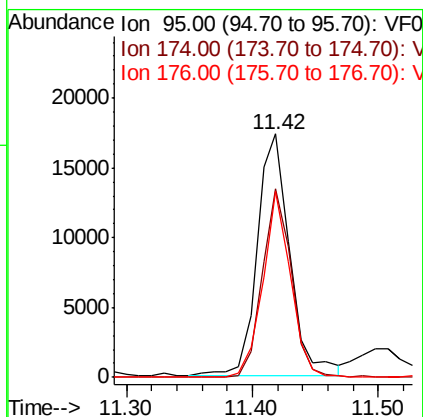
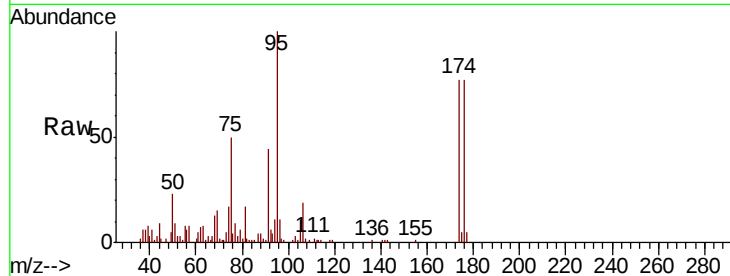
#62
4-Bromofluorobenzene
Concen: 19.666 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.01 min
Lab File: VF061104.D
Acq: 20 Dec 2018 13:21

Instrument :
MSVOA_F
ClientSampleId :
P001-SD012-0612-02

Tot Ion	Ratio	Lower	Upper
95	100		
174	77.3	0.0	143.8
176	76.5	0.0	147.6

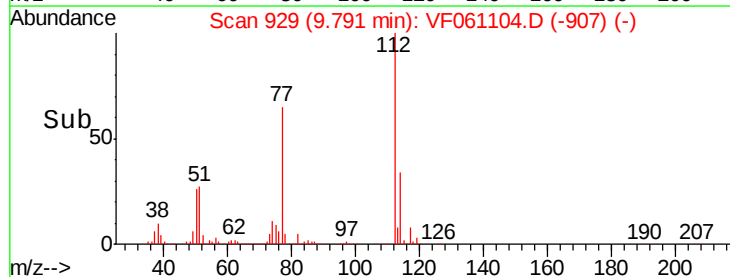
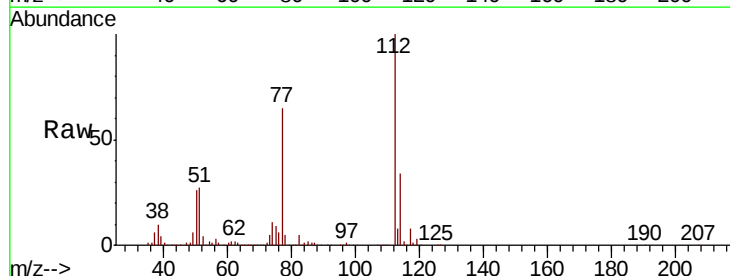
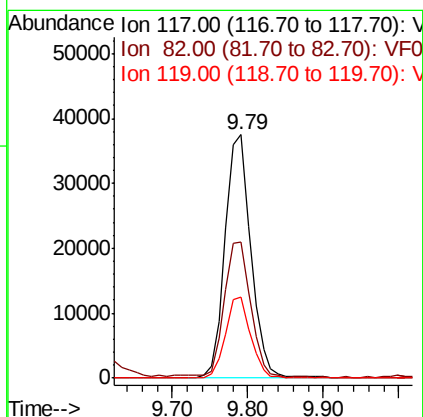
Manual Integrations
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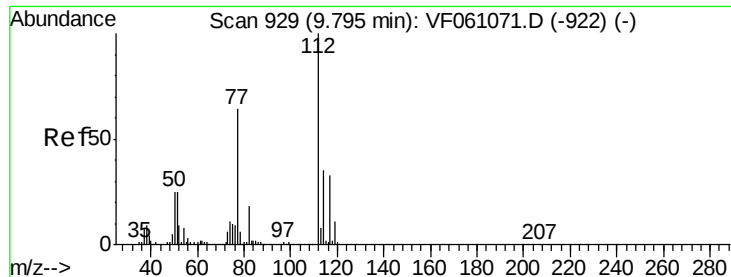
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#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. 0.02 min
Lab File: VF061104.D
Acq: 20 Dec 2018 13:21

Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.7	45.0	67.4
119	33.1	24.8	37.2





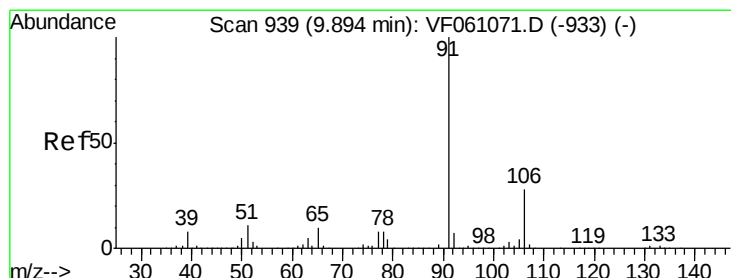
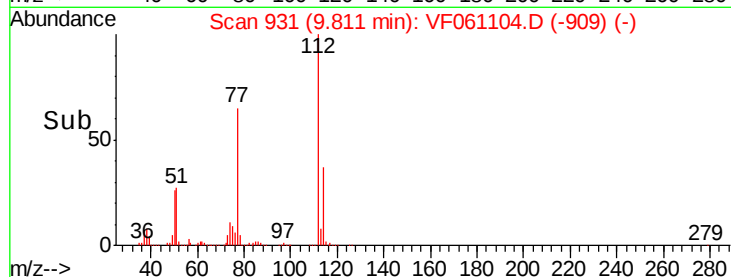
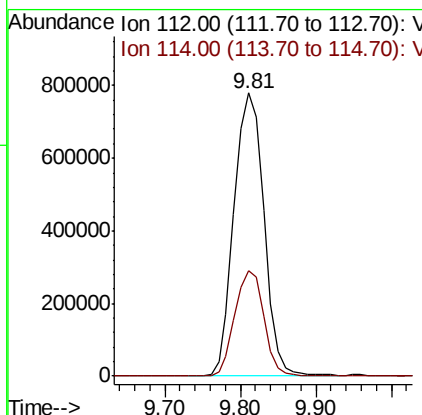
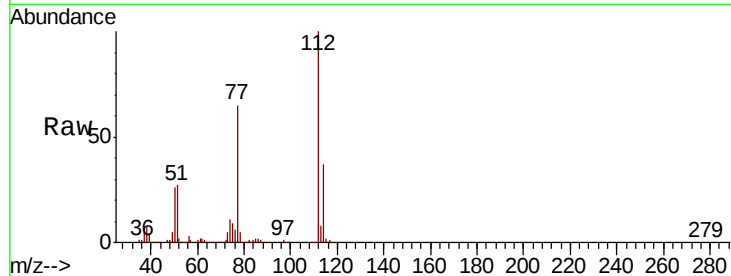
#65
Chlorobenzene
Concen: 1173.165 ug/l
RT: 9.81 min Scan# 931
Delta R.T. 0.02 min
Lab File: VF061104.D
Acq: 20 Dec 2018 13:21

Instrument :
MSVOA_F
ClientSampleId :
P001-SD012-0612-02

Tot Ion:112 Resp: 2145272
Ion Ratio Lower Upper
112 100
114 37.4 27.8 41.6

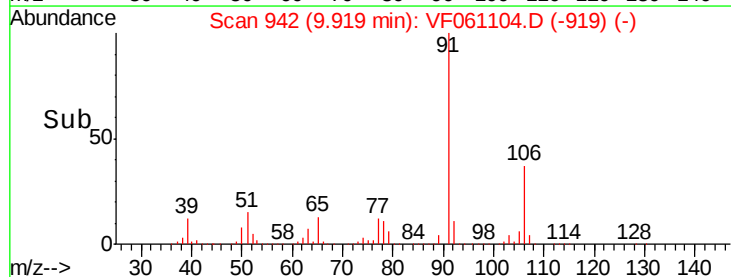
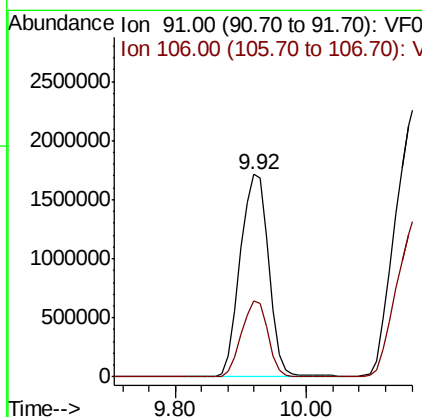
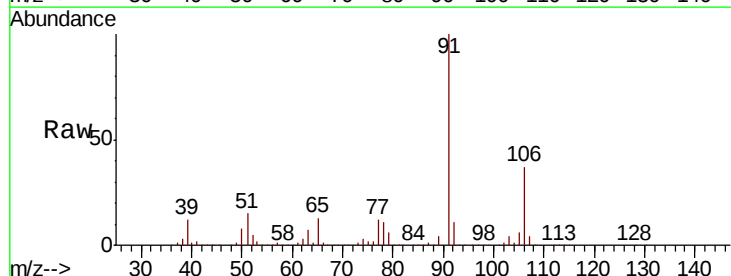
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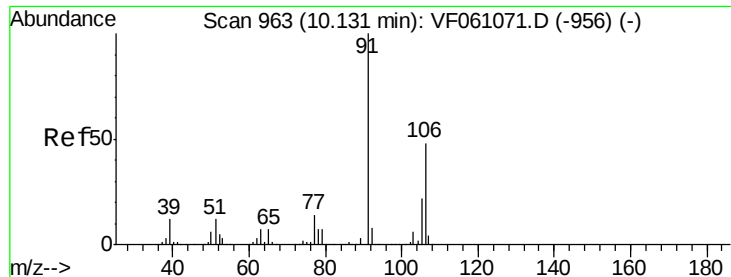
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#67
Ethyl Benzene
Concen: 1572.739 ug/l
RT: 9.92 min Scan# 942
Delta R.T. 0.03 min
Lab File: VF061104.D
Acq: 20 Dec 2018 13:21

Tgt Ion: 91 Resp: 5239428
Ion Ratio Lower Upper
91 100
106 37.3 22.5 33.7#





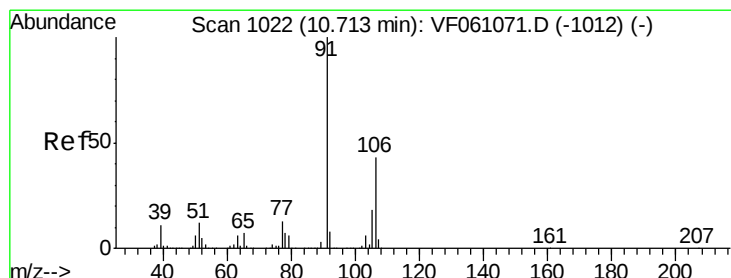
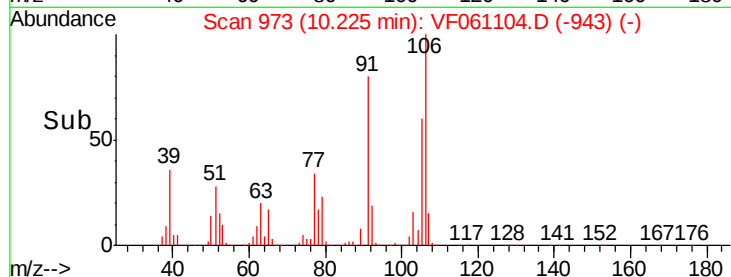
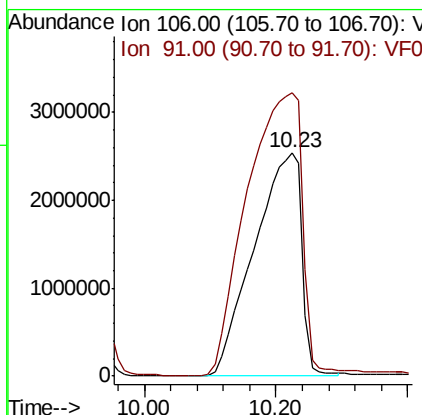
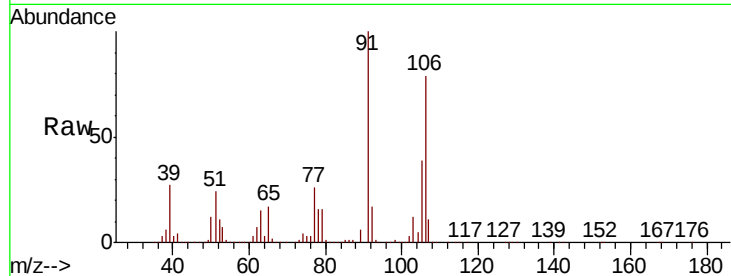
#68
m/p-Xylenes
Concen: 10903.333 ug/l
RT: 10.23 min Scan# 973
Delta R.T. 0.09 min
Lab File: VF061104.D
Acq: 20 Dec 2018 13:21

Instrument :
MSVOA_F
ClientSampleId :
P001-SD012-0612-02

Tot Ion:106 Resp:12783046
Ion Ratio Lower Upper
106 100
91 126.7 168.2 252.2#

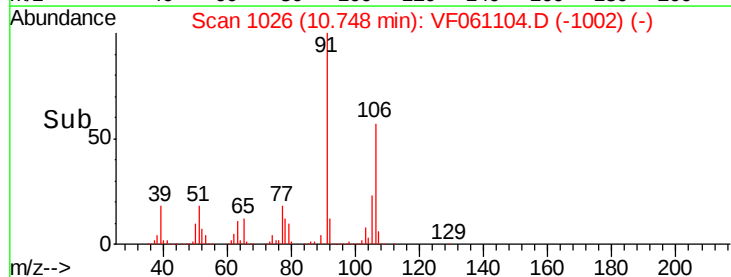
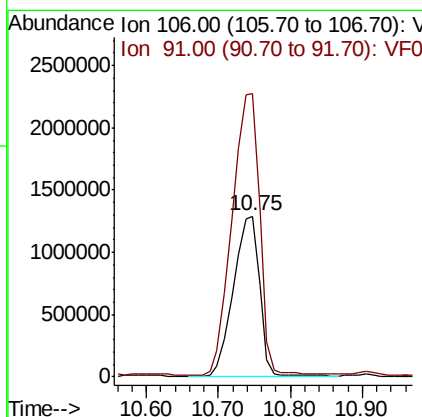
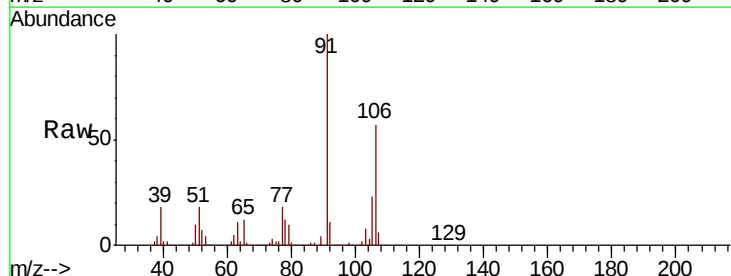
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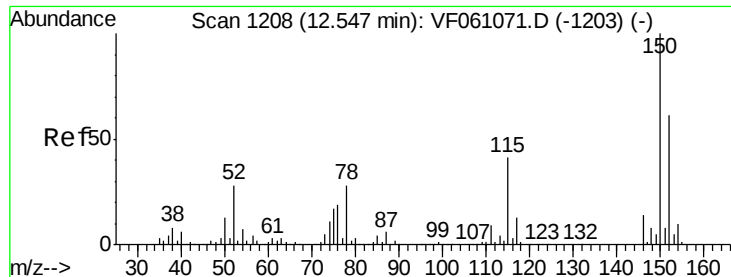
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#69
o-Xylene
Concen: 2487.099 ug/l
RT: 10.75 min Scan# 1026
Delta R.T. 0.04 min
Lab File: VF061104.D
Acq: 20 Dec 2018 13:21

Tgt Ion:106 Resp: 3233910
Ion Ratio Lower Upper
106 100
91 176.0 115.9 347.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. 0.01 min

Lab File: VF061104.D

Acq: 20 Dec 2018 13:21

Instrument :

MSVOA_F

ClientSampleId :

P001-SD012-0612-02

Tot Ion:152 Resp: 23319

Ion Ratio Lower Upper

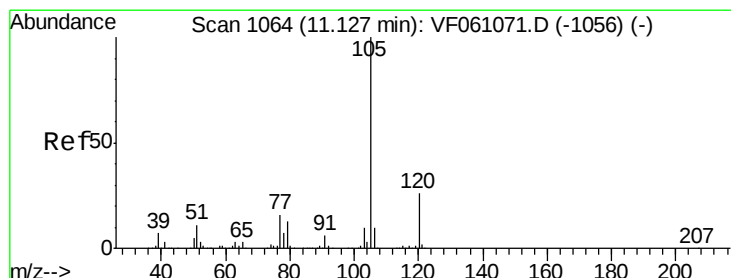
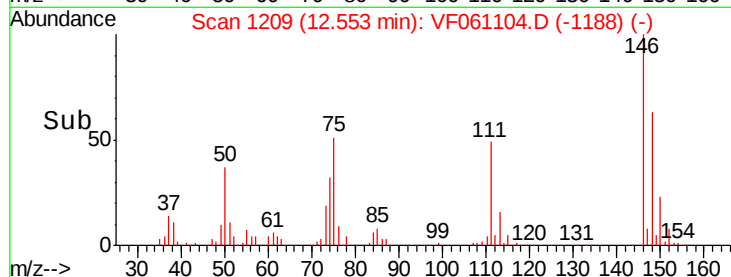
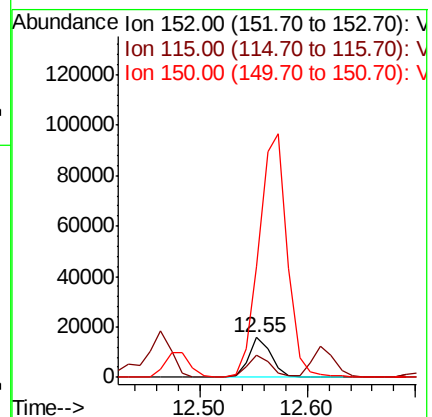
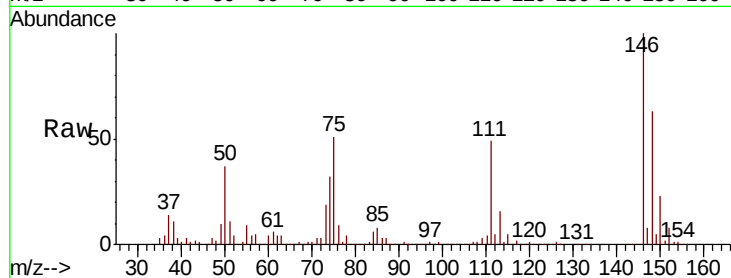
152 100

115 57.7 33.3 99.9

150 280.4 0.0 328.2

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#73

Isopropylbenzene

Concen: 123.077 ug/l m

RT: 11.13 min Scan# 1065

Delta R.T. 0.01 min

Lab File: VF061104.D

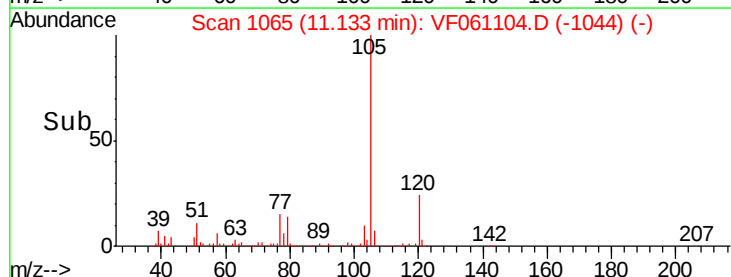
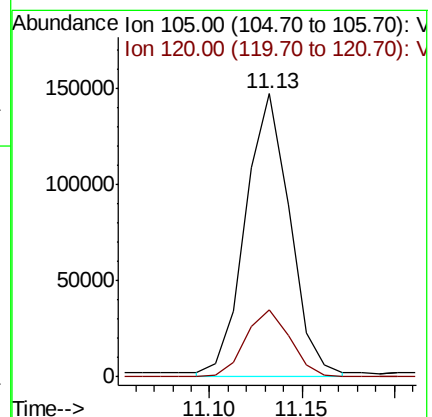
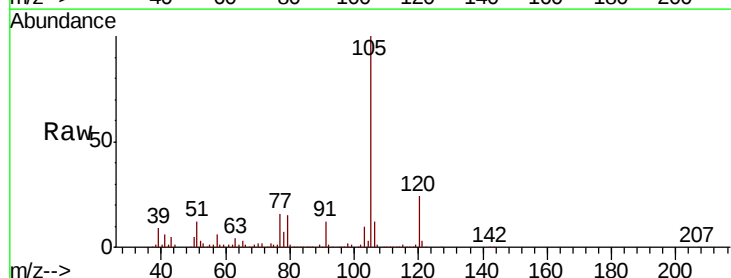
Acq: 20 Dec 2018 13:21

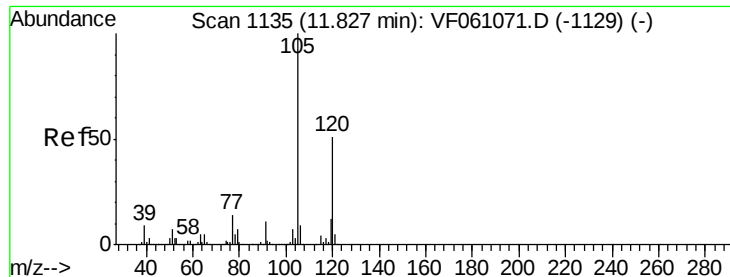
Tgt Ion:105 Resp: 247326

Ion Ratio Lower Upper

105 100

120 23.6 13.0 39.0





#80

1,3,5-Trimethylbenzene

Concen: 280.155 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. 0.01 min

Lab File: VF061104.D

Acq: 20 Dec 2018 13:21

Instrument :

MSVOA_F

ClientSampleId :

P001-SD012-0612-02

Tot Ion:105 Resp: 463569

Ion Ratio Lower Upper

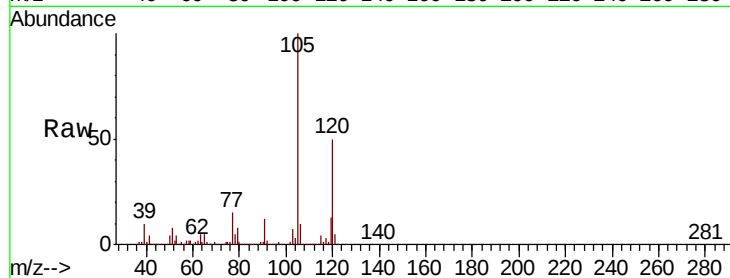
105 100

120 50.4 25.4 76.4

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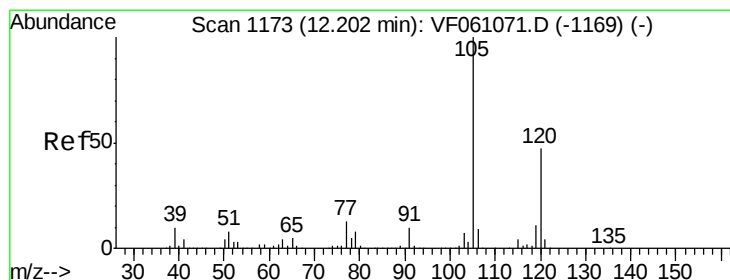
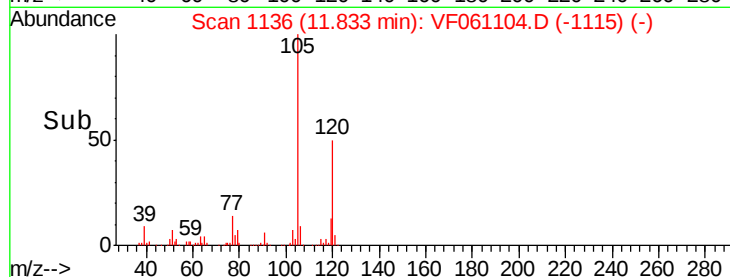
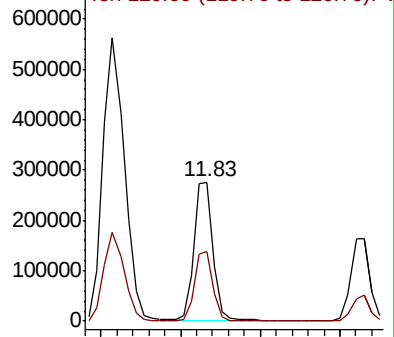
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#84

1,2,4-Trimethylbenzene

Concen: 780.392 ug/l

RT: 12.21 min Scan# 1174

Delta R.T. 0.01 min

Lab File: VF061104.D

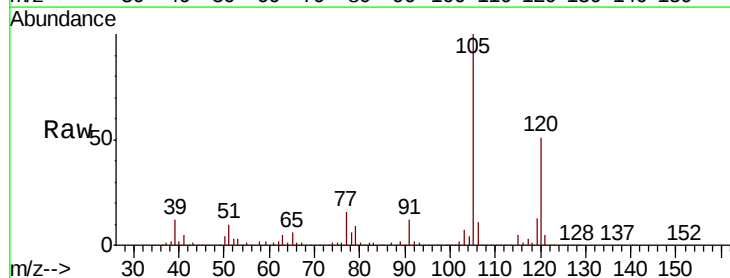
Acq: 20 Dec 2018 13:21

Tgt Ion:105 Resp: 1287708

Ion Ratio Lower Upper

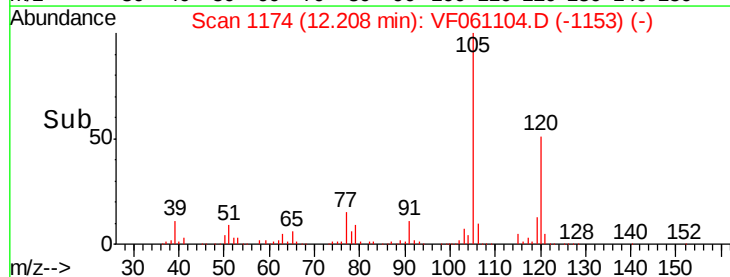
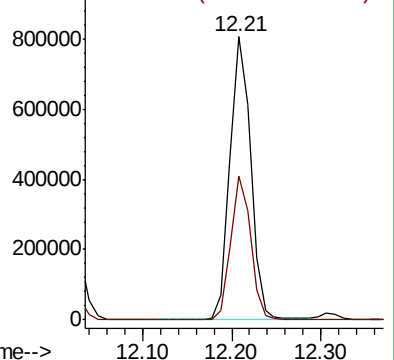
105 100

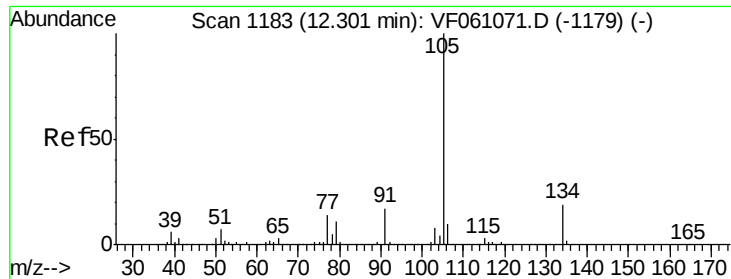
120 50.8 23.6 71.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 13.597 ug/l m

RT: 12.31 min Scan# 1184

Delta R.T. 0.01 min

Lab File: VF061104.D

Acq: 20 Dec 2018 13:21

Instrument :

MSVOA_F

ClientSampleId :

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Tot Ion:105 Resp: 30213

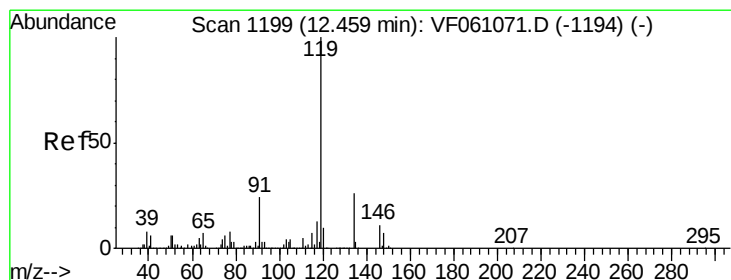
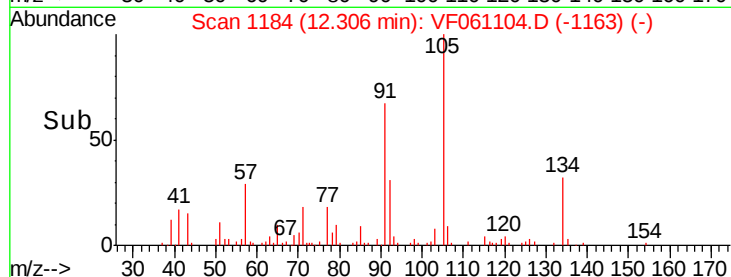
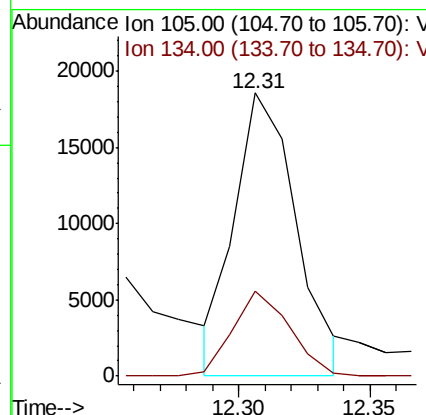
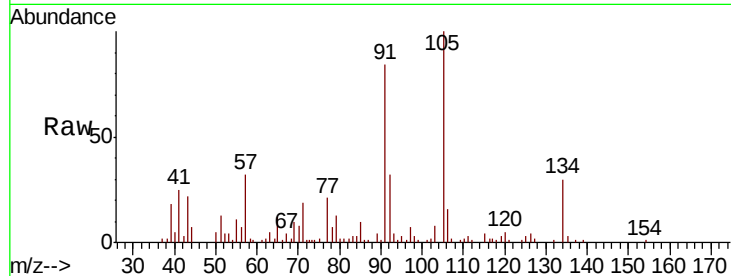
Ion Ratio Lower Upper

105 100

134 29.9 9.4 28.2#

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#86

p-Isopropyltoluene

Concen: 187.727 ug/l m

RT: 12.46 min Scan# 1200

Delta R.T. 0.01 min

Lab File: VF061104.D

Acq: 20 Dec 2018 13:21

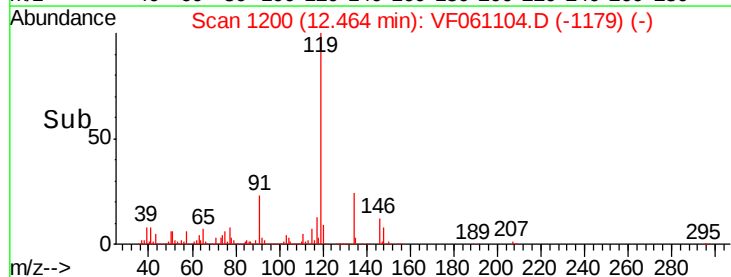
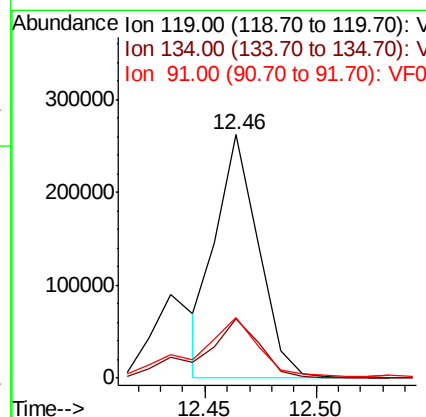
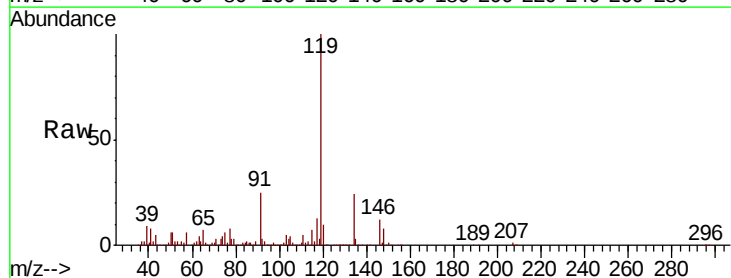
Tgt Ion:119 Resp: 346247

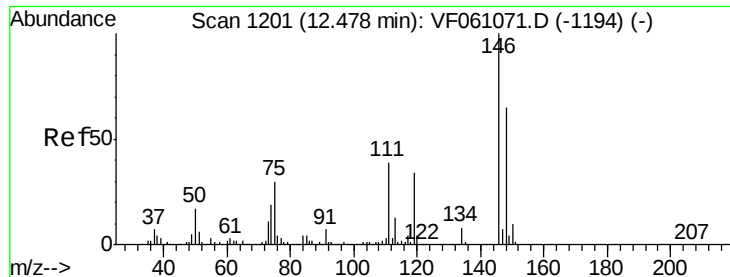
Ion Ratio Lower Upper

119 100

134 24.2 12.8 38.4

91 24.6 12.2 36.6





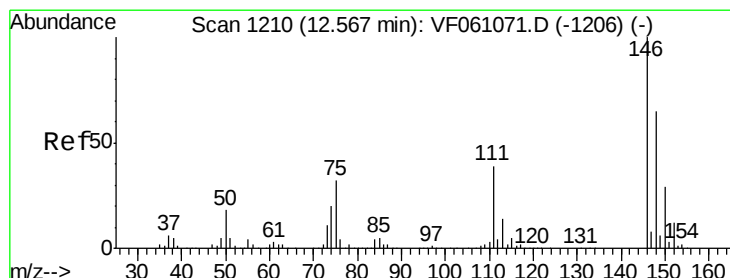
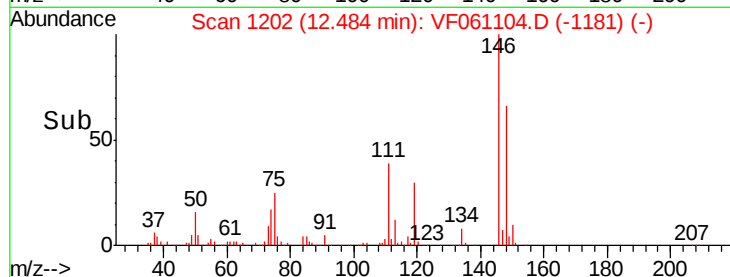
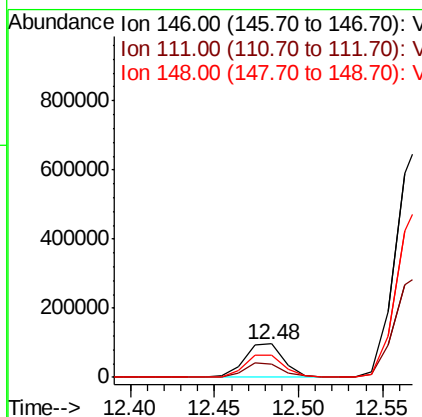
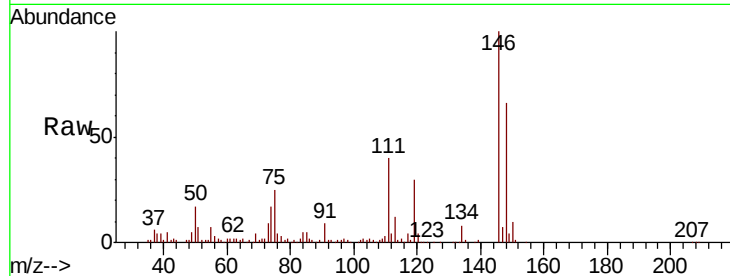
#87
 1,3-Dichlorobenzene
 Concen: 243.926 ug/l
 RT: 12.48 min Scan# 1202
 Delta R.T. 0.01 min
 Lab File: VF061104.D
 Acq: 20 Dec 2018 13:21

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD012-0612-02

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	19.3	57.9
148	66.0	32.4	97.2

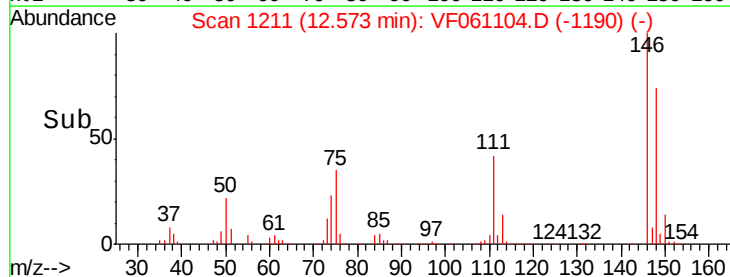
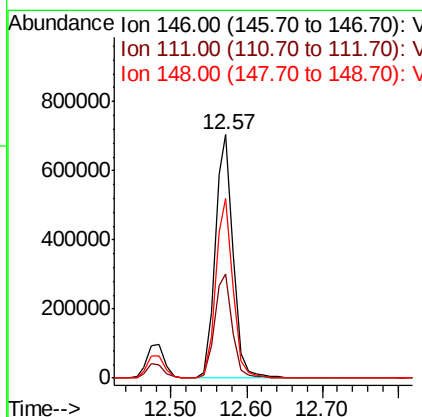
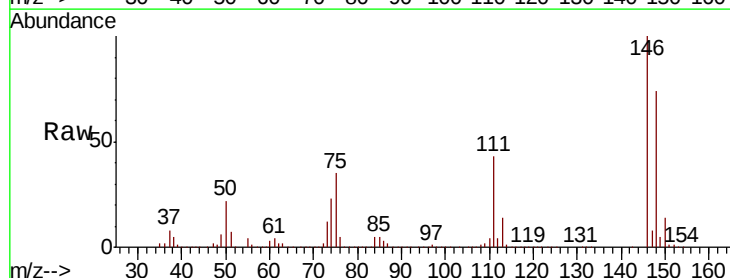
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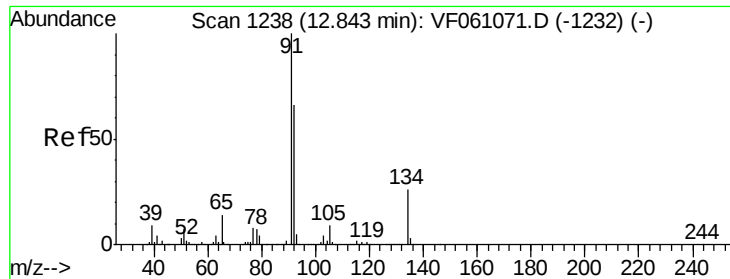
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#88
 1,4-Dichlorobenzene
 Concen: 1474.167 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. 0.01 min
 Lab File: VF061104.D
 Acq: 20 Dec 2018 13:21

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.5	19.4	58.4
148	73.9	32.4	97.0





#89

n-Butylbenzene

Concen: 29.454 ug/l

RT: 12.85 min Scan# 1239

Delta R.T. 0.01 min

Lab File: VF061104.D

Acq: 20 Dec 2018 13:21

Instrument :

MSVOA_F

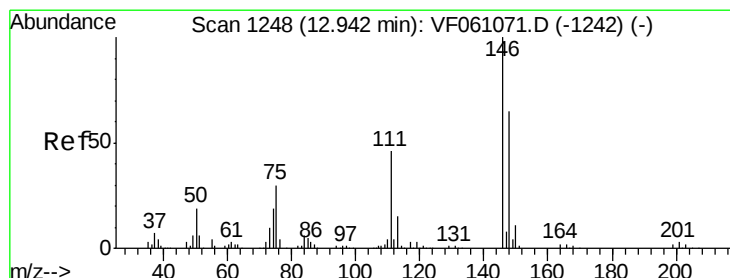
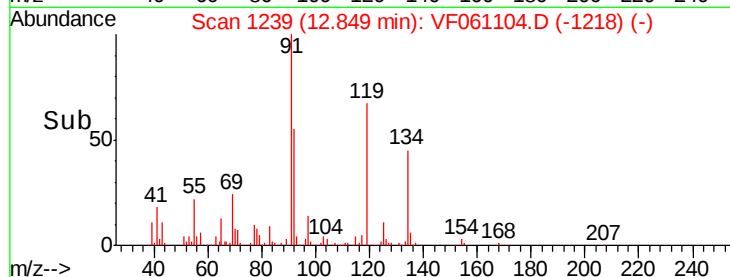
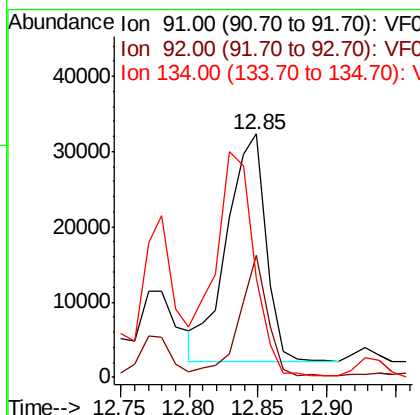
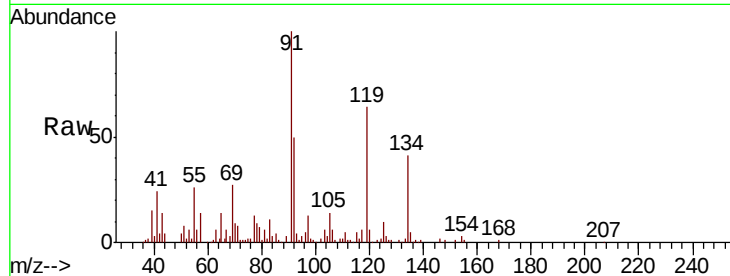
ClientSampleId :

P001-SD012-0612-02

Tot Ion:	91	Resp:	60072
Ion Ratio	Lower	Upper	
91	100		
92	50.2	32.8	98.4
134	40.6	13.2	39.5#

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#91

1,2-Dichlorobenzene

Concen: 27.848 ug/l

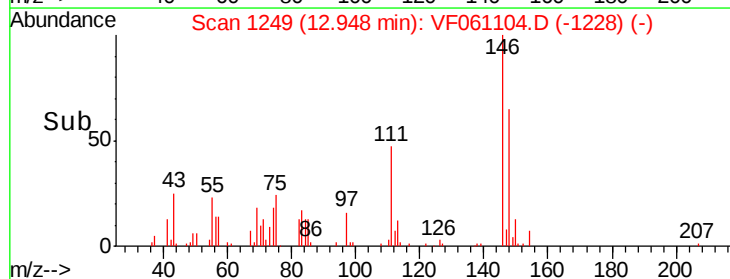
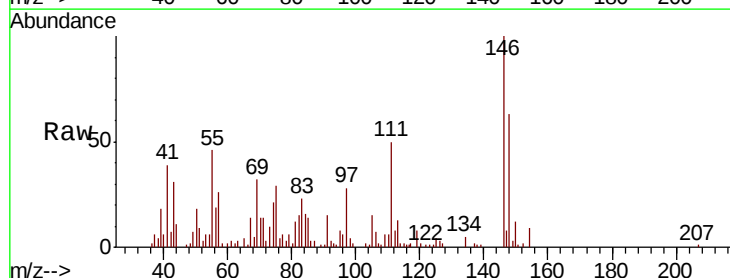
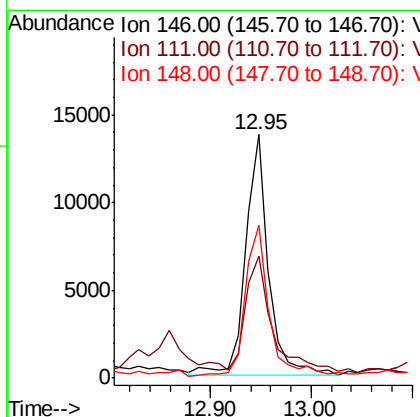
RT: 12.95 min Scan# 1249

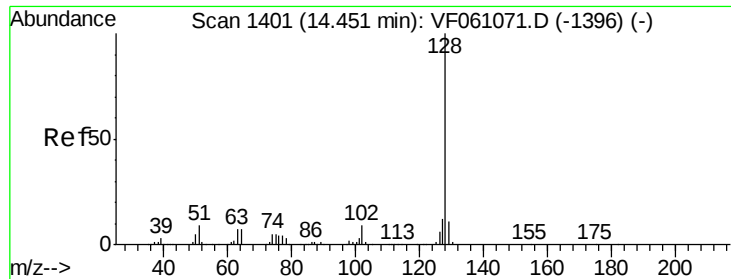
Delta R.T. 0.01 min

Lab File: VF061104.D

Acq: 20 Dec 2018 13:21

Tgt Ion:	146	Resp:	21536
Ion Ratio	Lower	Upper	
146	100		
111	50.1	23.2	69.5
148	62.6	32.4	97.0





#95
 Naphthalene
 Concen: 404.830 ug/l
 RT: 14.46 min Scan# 1402
 Delta R.T. 0.01 min
 Lab File: VF061104.D
 Acq: 20 Dec 2018 13:21

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD012-0612-02

Tot Ion	Ratio	Resp Lower	Upper
128	100		
127	12.7	9.4	14.2
129	11.3	8.8	13.2

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