

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011119\
 Data File : VF061367.D
 Acq On : 11 Jan 2019 14:45
 Operator : VA/AP
 Sample : K1119-01
 Misc : 5.49g/5mL/MSVOA-F/SOIL
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 DS-A

Manual Integrations
 APPROVED

MMDadoda
 1/14/2019 1:16:48 PM

Quant Time: Jan 12 03:59:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F010819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 09 07:13:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	136842	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.58	114	240255	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.75	117	174067	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.54	152	66619	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	81880	53.76	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	107.52%	
35) Dibromofluoromethane	4.10	113	96589	52.54	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	105.08%	
50) Toluene-d8	7.53	98	253876	46.67	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	93.34%	
62) 4-Bromofluorobenzene	11.40	95	101644	42.79	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	85.58%	
Target Compounds						
					Qvalue	
20) Methylene Chloride	2.17	84	12070	8.052	ug/l #	80
39) Methylcyclohexane	5.44	83	4236	1.207	ug/l #	74
52) Toluene	7.60	92	27442	6.518	ug/l	88
67) Ethyl Benzene	9.88	91	107608	15.878	ug/l	96
68) m/p-Xylenes	10.12	106	156851	66.348	ug/l	99
69) o-Xylene	10.70	106	95476	36.154	ug/l	99
73) Isopropylbenzene	11.11	105	70267	11.987	ug/l	98
78) n-propylbenzene	11.58	91	246262	35.234	ug/l	95
80) 1,3,5-Trimethylbenzene	11.81	105	310352	66.535	ug/l	99
84) 1,2,4-Trimethylbenzene	12.20	105	944812	204.015	ug/l	99
85) sec-Butylbenzene	12.30	105	158546	23.960	ug/l	94
86) p-Isopropyltoluene	12.44	119	75291m	13.989	ug/l	
89) n-Butylbenzene	12.83	91	229710	41.538	ug/l #	69

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

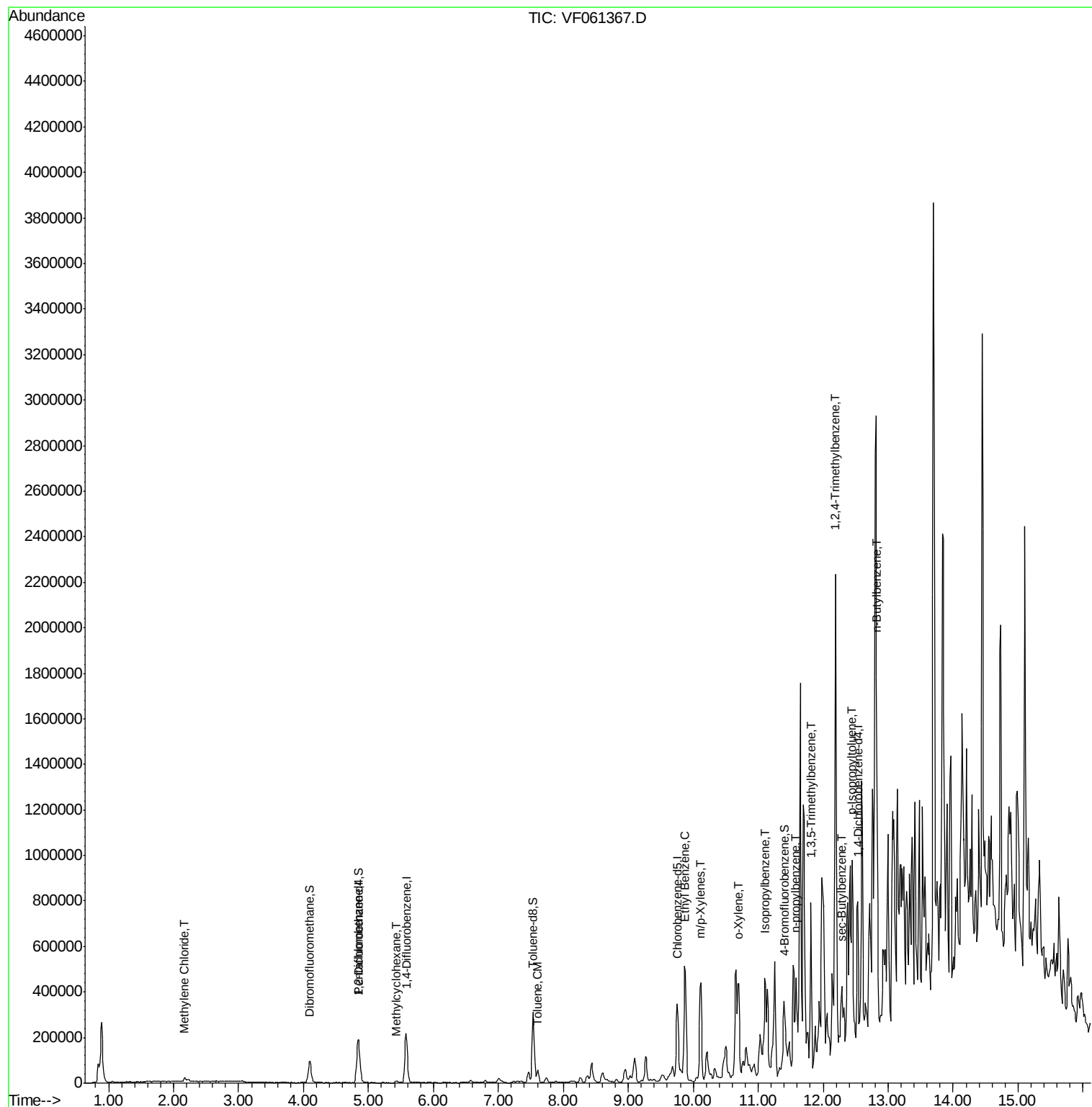
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF011119\
Data File : VF061367.D
Acq On : 11 Jan 2019 14:45
Operator : VA/AP
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Misc : 5.49g/5mL/MSVOA-F/SOIL
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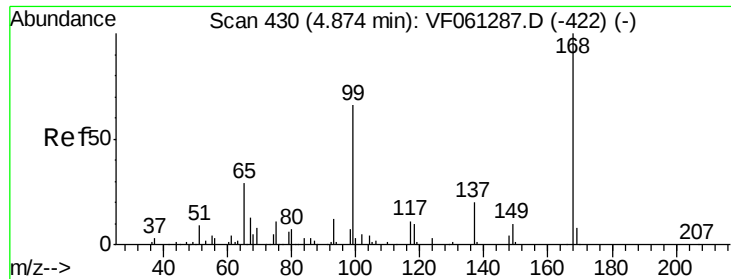
Instrument :
MSVOA_F
ClientSampleId :
DS-A

Manual Integrations
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1/14/2019 1:16:48 PM

Quant Time: Jan 12 03:59:19 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F010819S.M
Quant Title : SW846 8260
QLast Update : Wed Jan 09 07:13:51 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.02 min

Lab File: VF061367.D

Acq: 11 Jan 2019 14:45

Instrument :

MSVOA_F

ClientSampleId :

DS-A

Tot Ion:168 Resp: 136842

Ion Ratio Lower Upper

168 100

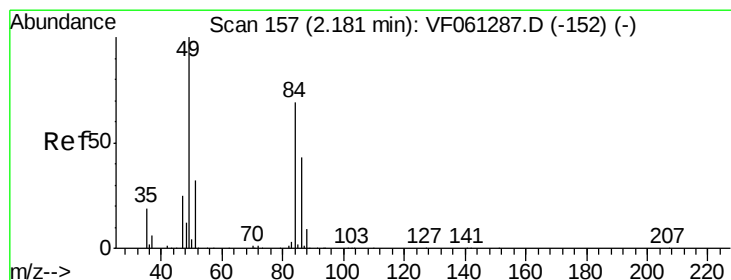
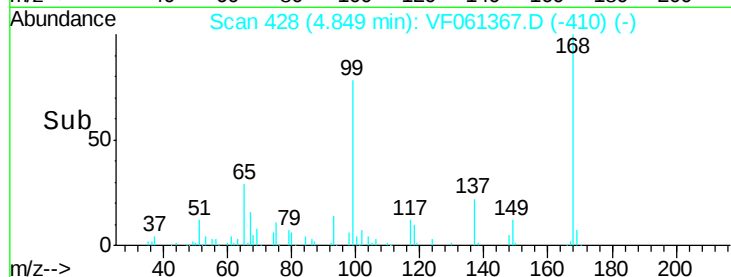
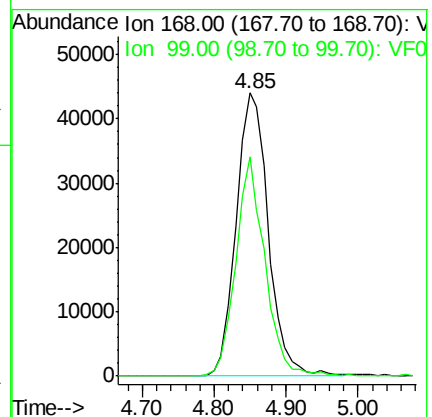
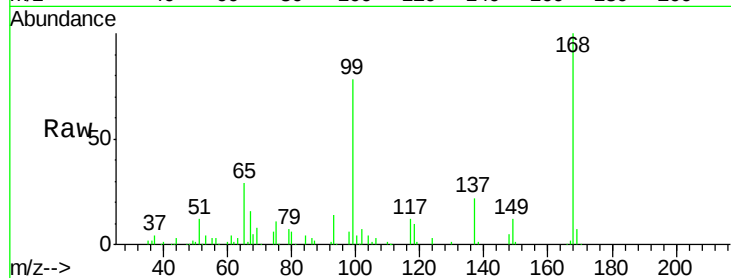
99 77.7 52.7 79.1

Manual Integrations

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#20

Methylene Chloride

Concen: 8.052 ug/l

RT: 2.17 min Scan# 156

Delta R.T. -0.02 min

Lab File: VF061367.D

Acq: 11 Jan 2019 14:45

Tgt Ion: 84 Resp: 12070

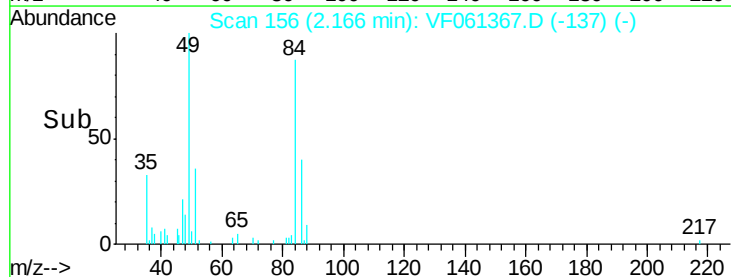
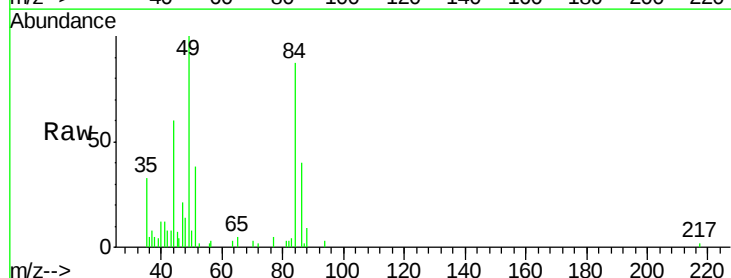
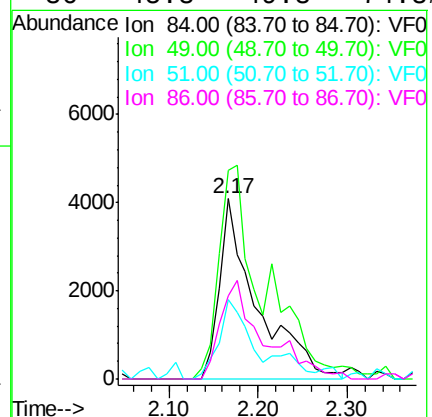
Ion Ratio Lower Upper

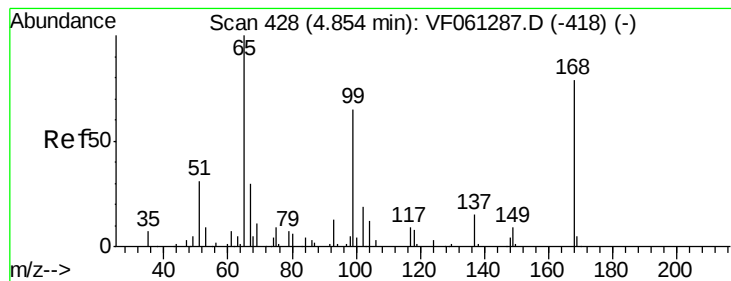
84 100

49 115.5 116.6 175.0#

51 44.4 37.7 56.5

86 45.8 49.8 74.8#





#33

1,2-Dichloroethane-d4

Concen: 53.758 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.02 min

Lab File: VF061367.D

Acq: 11 Jan 2019 14:45

Instrument :

MSVOA_F

ClientSampleId :

DS-A

Tot Ion: 65 Resp: 81880

Ion Ratio Lower Upper

65 100

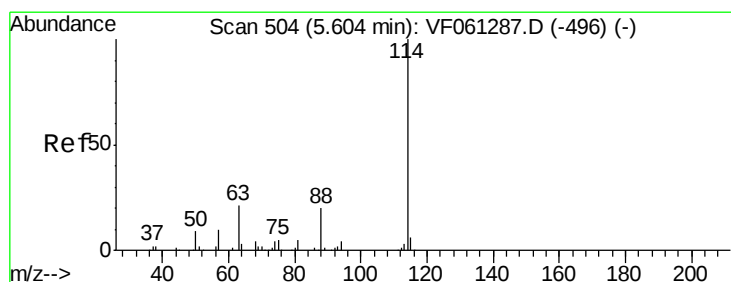
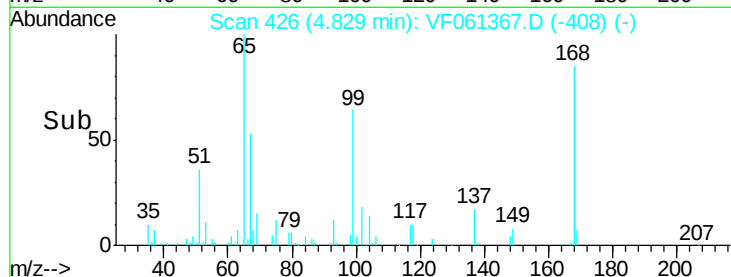
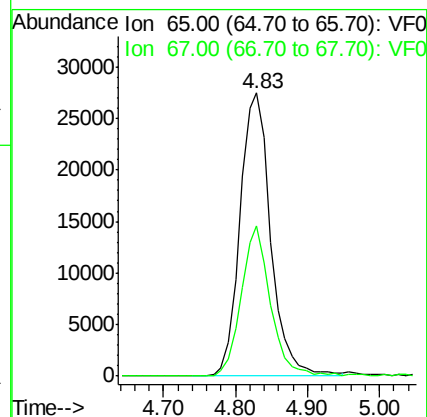
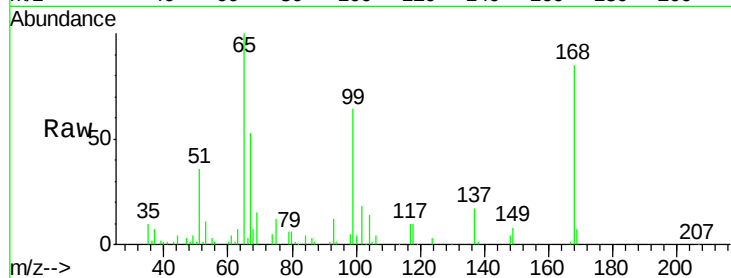
67 53.0 0.0 98.2

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.02 min

Lab File: VF061367.D

Acq: 11 Jan 2019 14:45

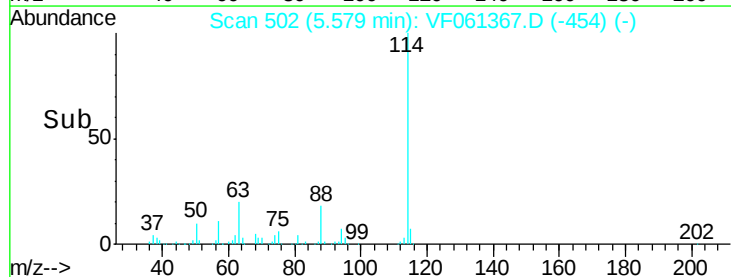
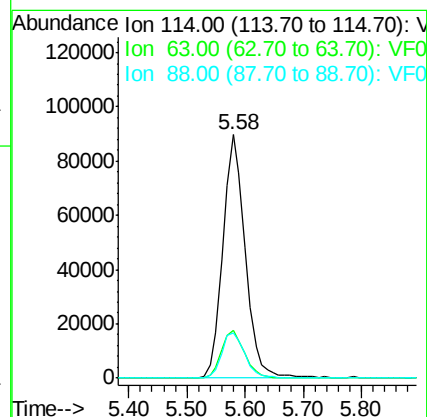
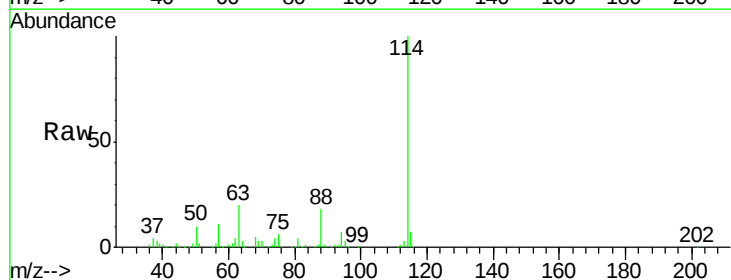
Tgt Ion: 114 Resp: 240255

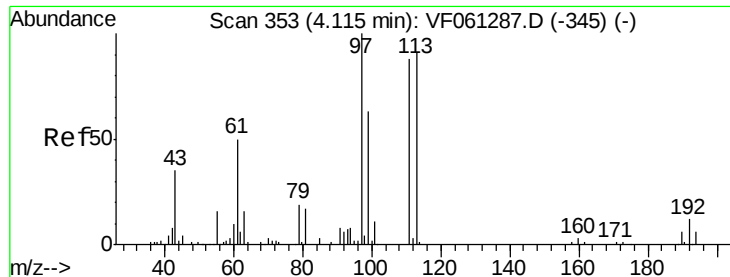
Ion Ratio Lower Upper

114 100

63 19.8 0.0 42.8

88 18.4 0.0 40.0





#35

Dibromofluoromethane

Concen: 52.541 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.02 min

Lab File: VF061367.D

Acq: 11 Jan 2019 14:45

Instrument :

MSVOA_F

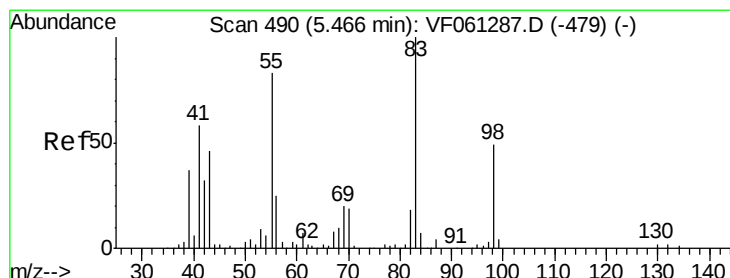
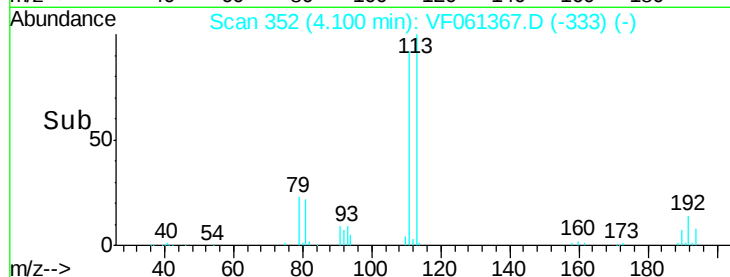
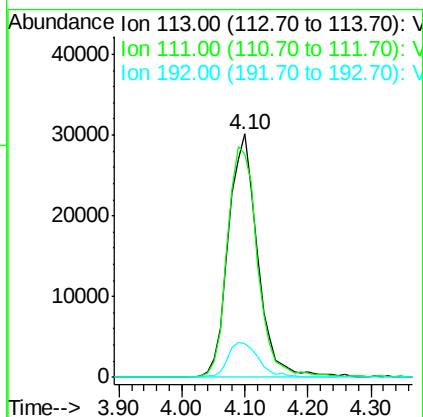
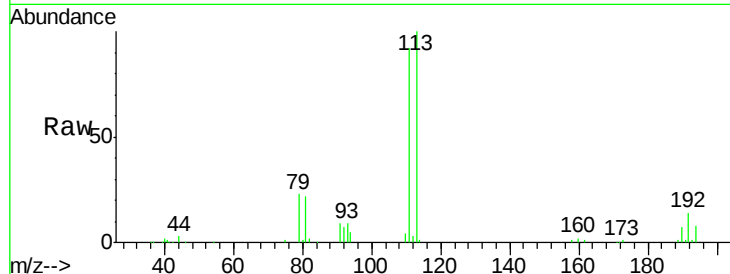
ClientSampleId :

DS-A

Tot Ion:	113	Resp:	96589
Ion Ratio	Lower	Upper	
113	100		
111	91.7	78.0	117.0
192	14.6	10.6	16.0

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#39

Methylcyclohexane

Concen: 1.207 ug/l

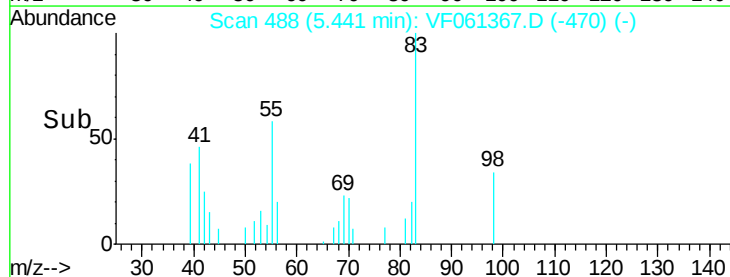
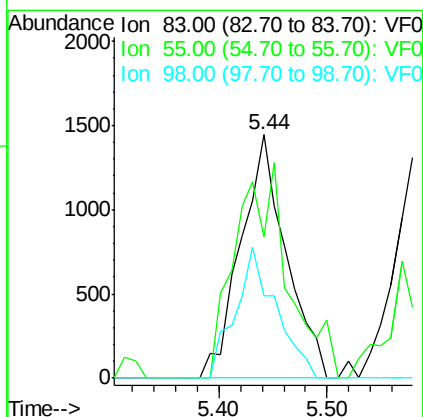
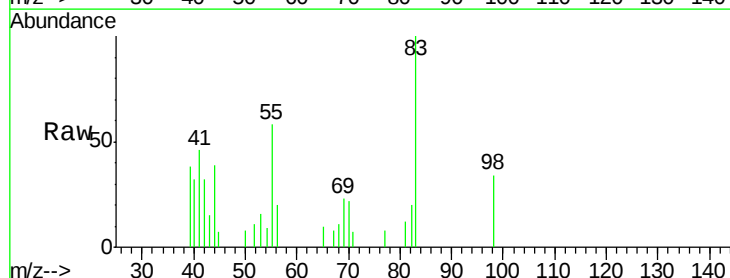
RT: 5.44 min Scan# 488

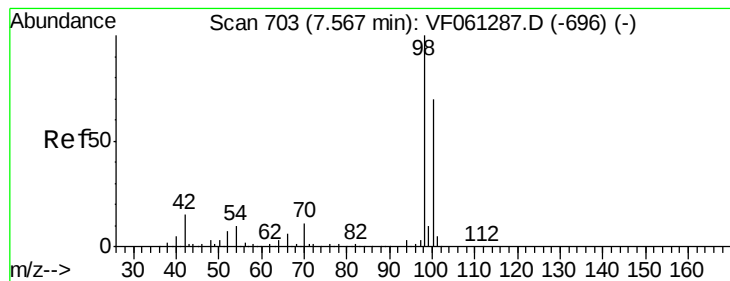
Delta R.T. -0.02 min

Lab File: VF061367.D

Acq: 11 Jan 2019 14:45

Tgt Ion:	83	Resp:	4236
Ion Ratio	Lower	Upper	
83	100		
55	57.8	66.4	99.6#
98	34.0	39.1	58.7#





#50

Toluene-d8

Concen: 46.667 ug/l

RT: 7.53 min Scan# 700

Delta R.T. -0.03 min

Lab File: VF061367.D

Acq: 11 Jan 2019 14:45

Instrument :

MSVOA_F

ClientSampleId :

DS-A

Tot Ion: 98 Resp: 253876

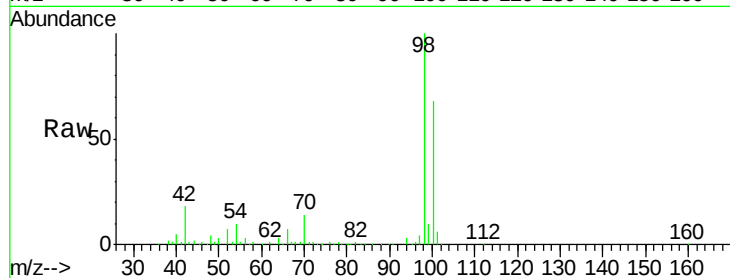
Ion Ratio Lower Upper

98 100

100 67.6 55.6 83.4

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Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.53

120000

100000

80000

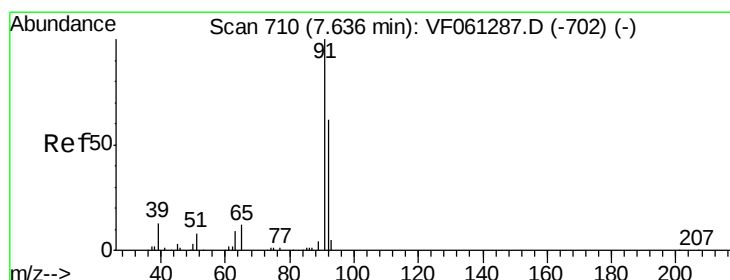
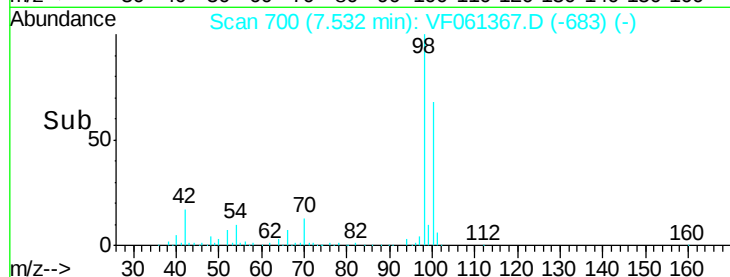
60000

40000

20000

0

Time--> 7.40 7.50 7.60



#52

Toluene

Concen: 6.518 ug/l

RT: 7.60 min Scan# 707

Delta R.T. -0.03 min

Lab File: VF061367.D

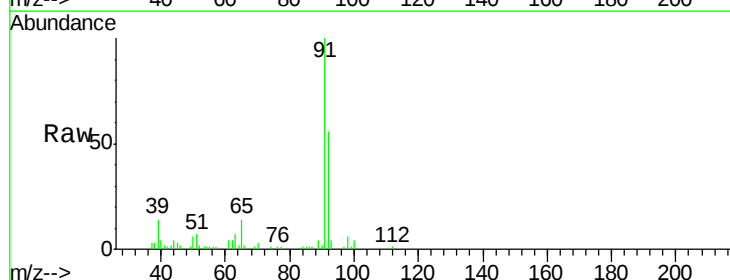
Acq: 11 Jan 2019 14:45

Tgt Ion: 92 Resp: 27442

Ion Ratio Lower Upper

92 100

91 178.1 129.2 193.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.60

20000

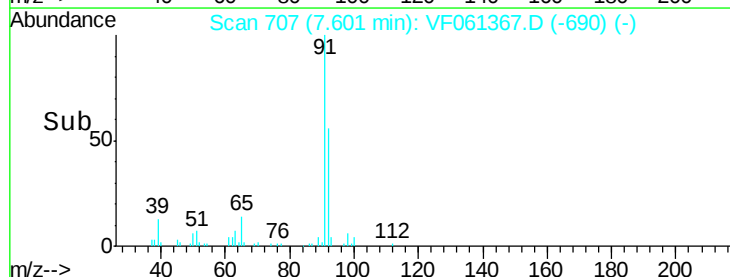
15000

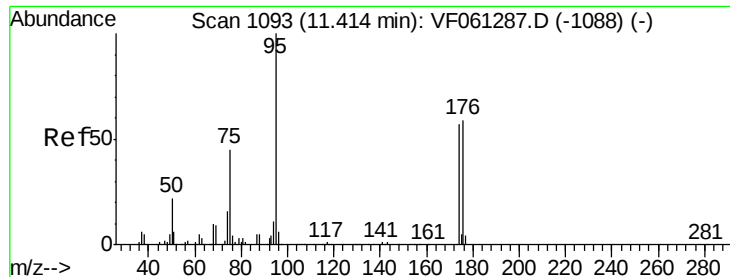
10000

5000

0

Time--> 7.50 7.60 7.70





#62

4-Bromofluorobenzene

Concen: 42.789 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF061367.D

Acq: 11 Jan 2019 14:45

Instrument :

MSVOA_F

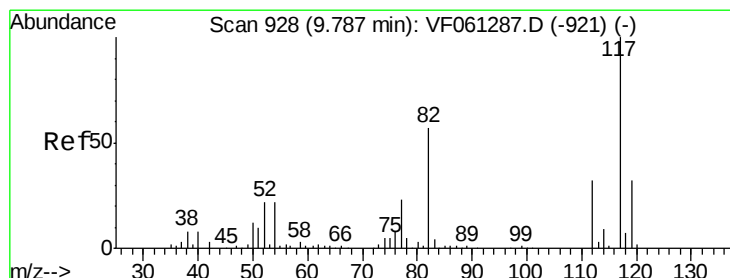
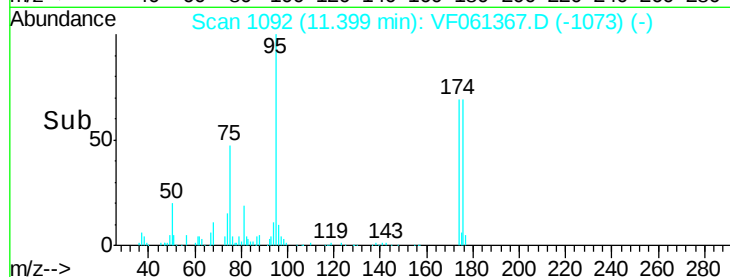
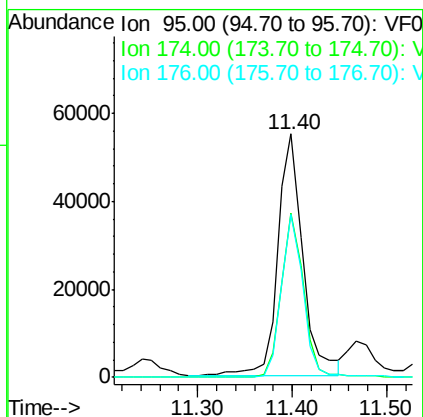
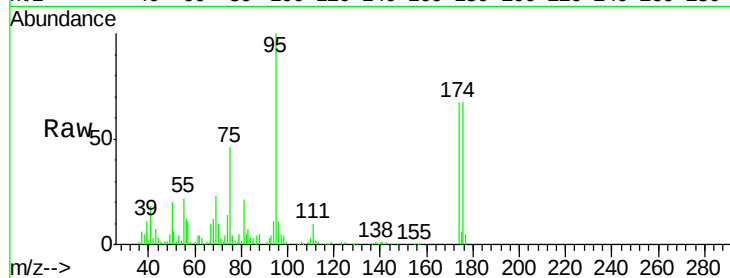
ClientSampleId :

DS-A

Tot Ion:	95	Resp:	101644
Ion Ratio	Lower	Upper	
95	100		
174	67.4	0.0	114.2
176	66.9	0.0	117.8

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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

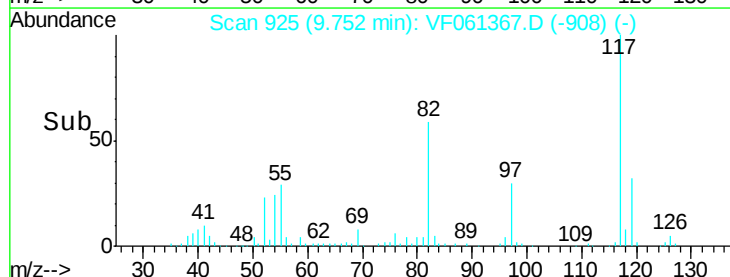
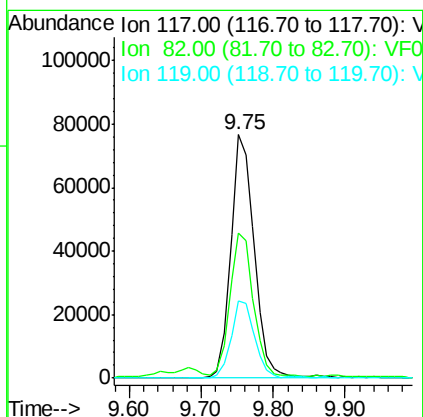
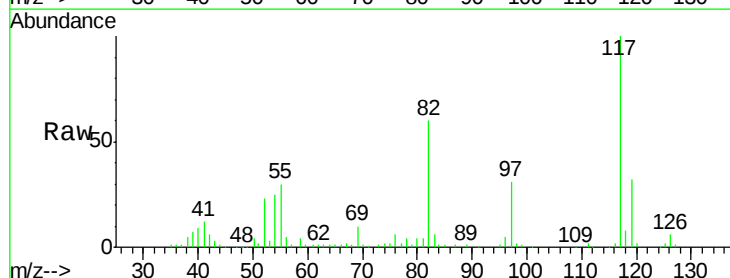
RT: 9.75 min Scan# 925

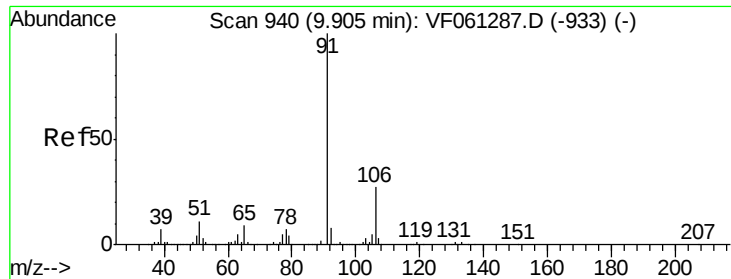
Delta R.T. -0.03 min

Lab File: VF061367.D

Acq: 11 Jan 2019 14:45

Tgt Ion:	117	Resp:	174067
Ion Ratio	Lower	Upper	
117	100		
82	59.8	45.3	67.9
119	31.7	25.4	38.0





#67

Ethyl Benzene

Concen: 15.878 ug/l

RT: 9.88 min Scan# 938

Delta R.T. -0.02 min

Lab File: VF061367.D

Acq: 11 Jan 2019 14:45

Instrument :

MSVOA_F

ClientSampled :

DS-A

Tot Ion: 91 Resp: 107608

Ion Ratio Lower Upper

91 100

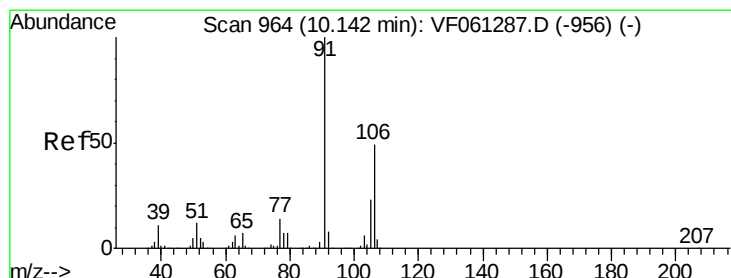
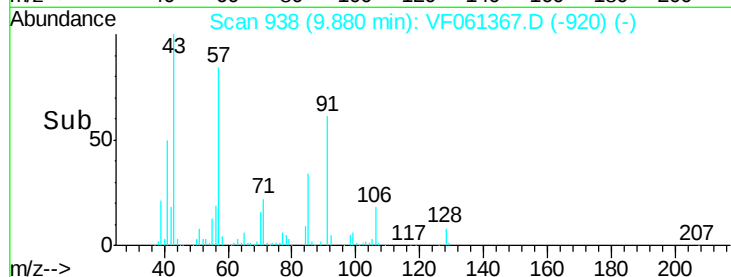
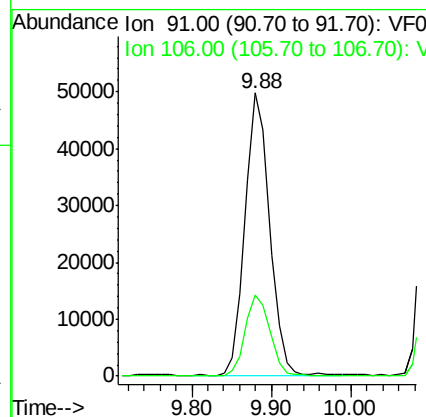
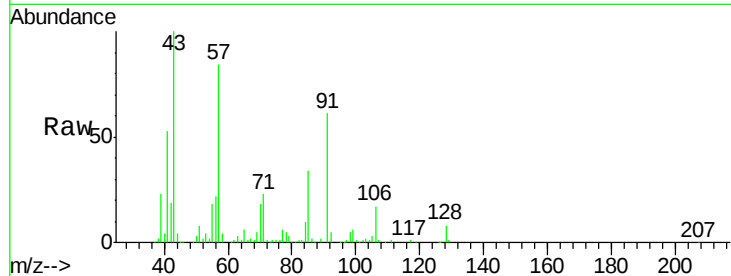
106 28.6 21.4 32.2

Manual Integrations

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#68

m/p-Xylenes

Concen: 66.348 ug/l

RT: 10.12 min Scan# 962

Delta R.T. -0.02 min

Lab File: VF061367.D

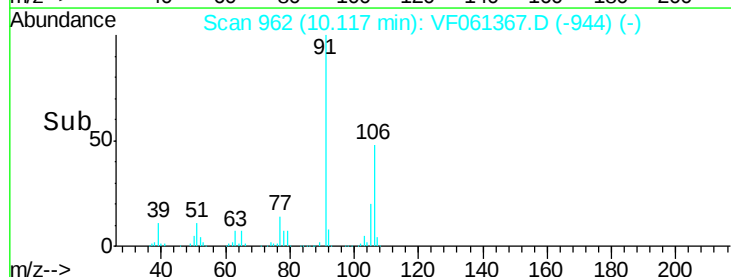
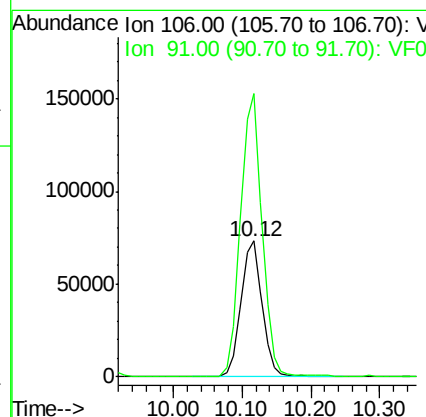
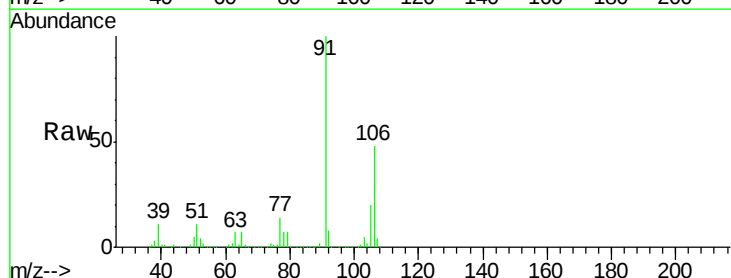
Acq: 11 Jan 2019 14:45

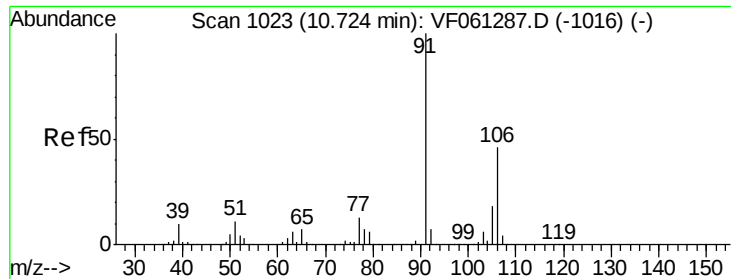
Tgt Ion: 106 Resp: 156851

Ion Ratio Lower Upper

106 100

91 208.6 165.0 247.6





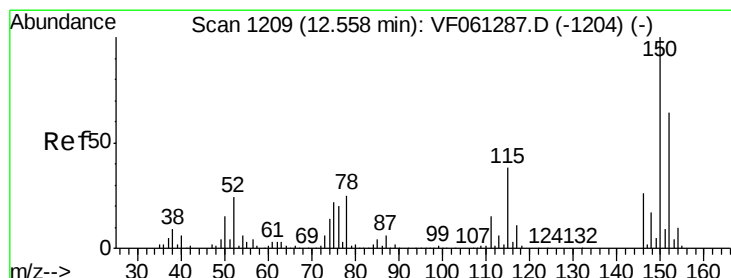
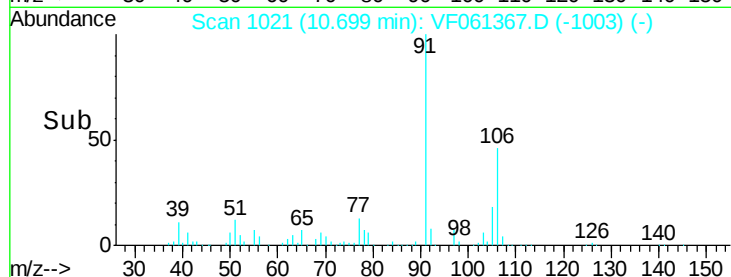
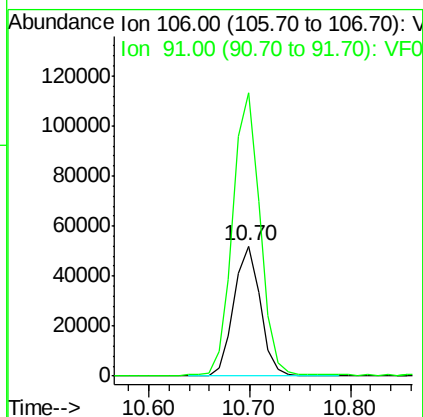
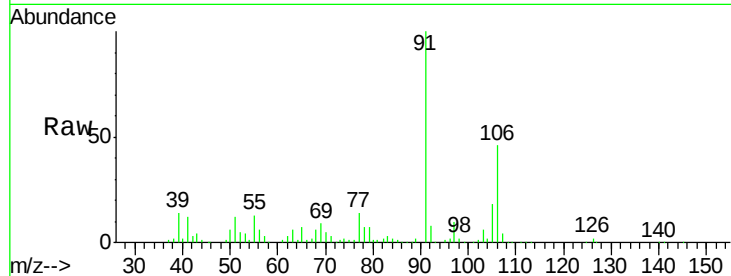
#69
o-Xylene
Concen: 36.154 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.02 min
Lab File: VF061367.D
Acq: 11 Jan 2019 14:45

Instrument :
MSVOA_F
ClientSampleId :
DS-A

Tot Ion:106 Resp: 95476
Ion Ratio Lower Upper
106 100
91 218.0 108.1 324.4

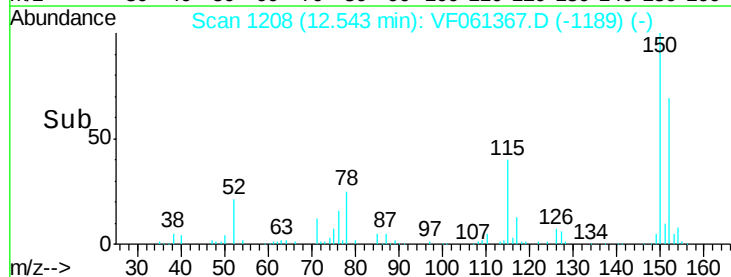
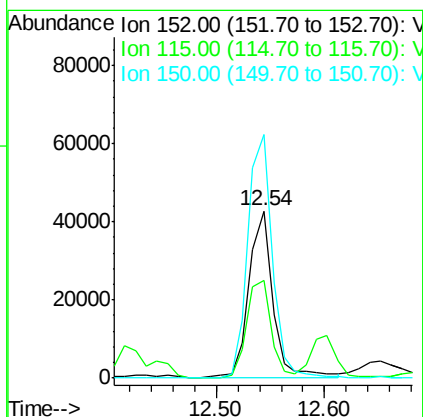
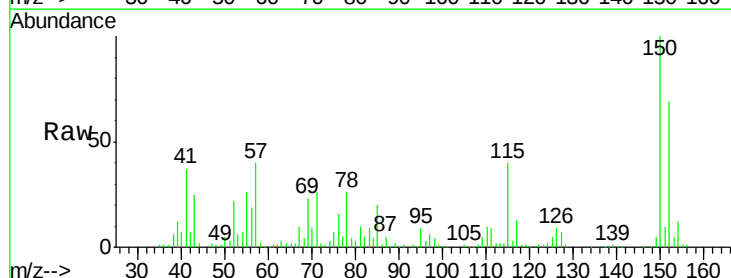
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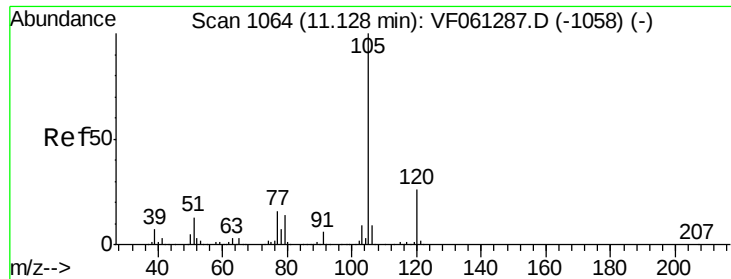
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.02 min
Lab File: VF061367.D
Acq: 11 Jan 2019 14:45

Tgt Ion:152 Resp: 66619
Ion Ratio Lower Upper
152 100
115 58.4 29.6 88.9
150 145.4 0.0 315.4





#73

Isopropylbenzene

Concen: 11.987 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.02 min

Lab File: VF061367.D

Acq: 11 Jan 2019 14:45

Instrument :

MSVOA_F

ClientSampleId :

DS-A

Tot Ion:105 Resp: 70267

Ion Ratio Lower Upper

105 100

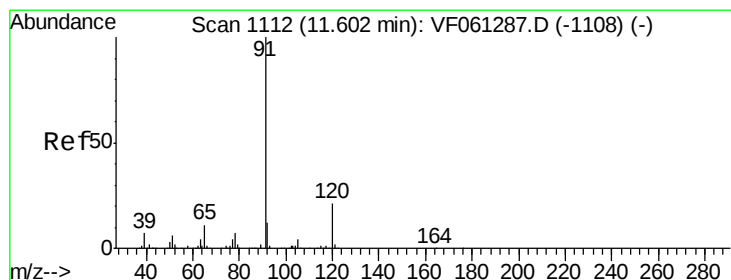
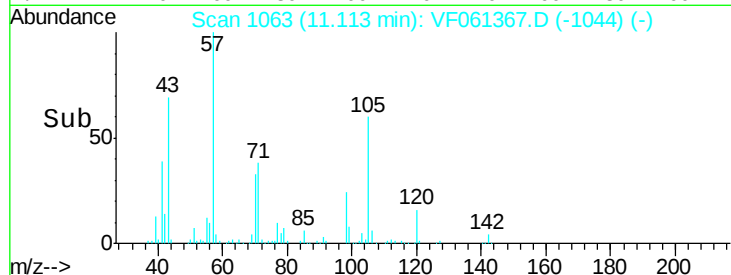
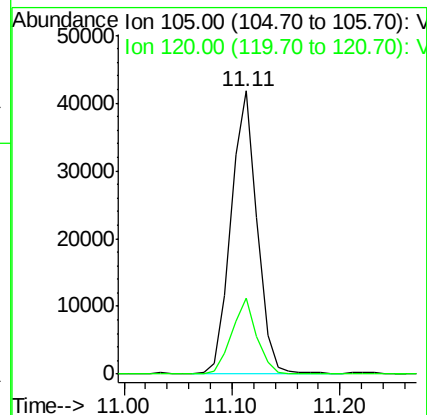
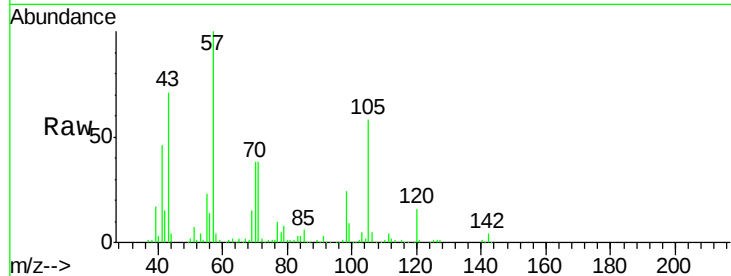
120 26.7 12.9 38.7

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#78

n-propylbenzene

Concen: 35.234 ug/l

RT: 11.58 min Scan# 1110

Delta R.T. -0.02 min

Lab File: VF061367.D

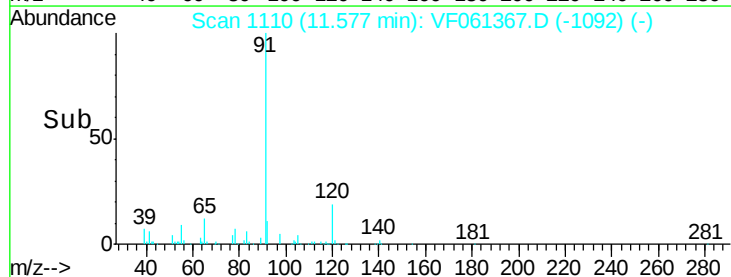
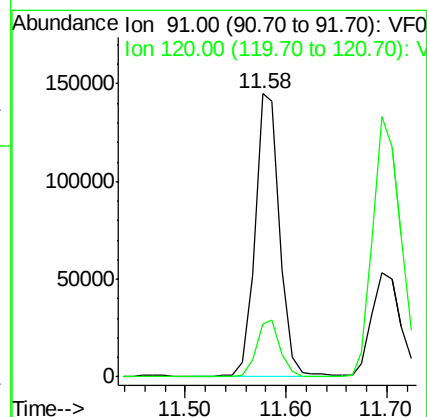
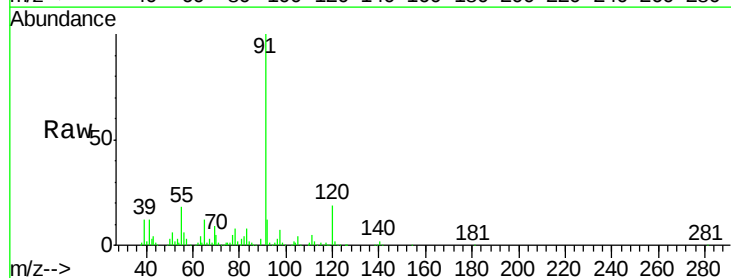
Acq: 11 Jan 2019 14:45

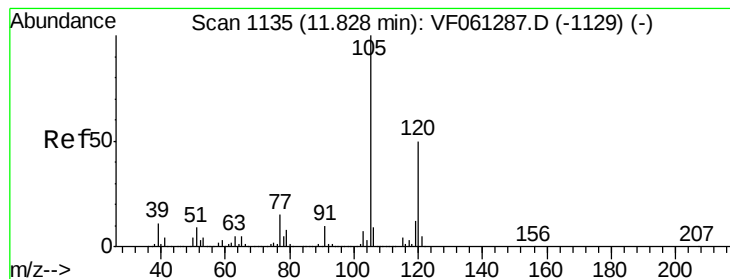
Tgt Ion: 91 Resp: 246262

Ion Ratio Lower Upper

91 100

120 18.9 10.7 32.1





#80

1,3,5-Trimethylbenzene

Concen: 66.535 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.02 min

Lab File: VF061367.D

Acq: 11 Jan 2019 14:45

Instrument :

MSVOA_F

ClientSampleId :

DS-A

Tot Ion:105 Resp: 310352

Ion Ratio Lower Upper

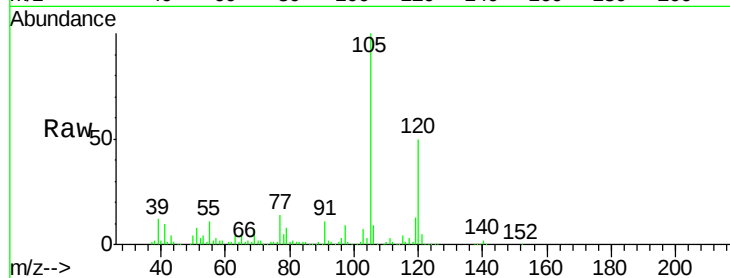
105 100

120 49.7 25.2 75.6

Manual Integrations
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

500000

400000

300000

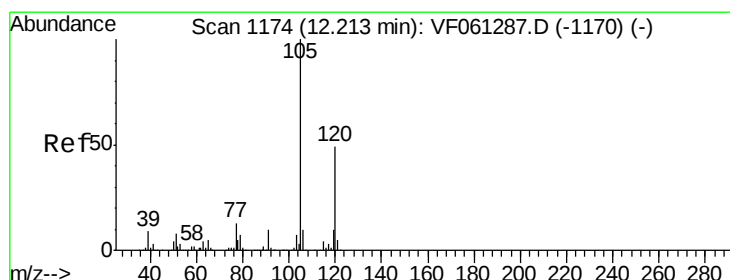
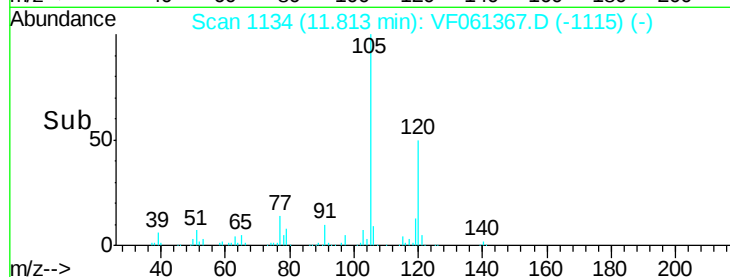
200000

100000

0

11.70 11.80 11.90

Time-->



#84

1,2,4-Trimethylbenzene

Concen: 204.015 ug/l

RT: 12.20 min Scan# 1173

Delta R.T. -0.02 min

Lab File: VF061367.D

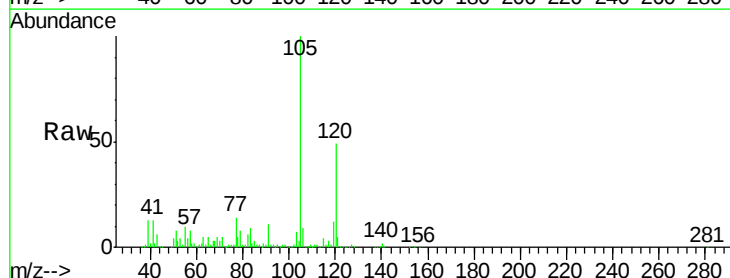
Acq: 11 Jan 2019 14:45

Tgt Ion:105 Resp: 944812

Ion Ratio Lower Upper

105 100

120 49.0 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

600000

500000

400000

300000

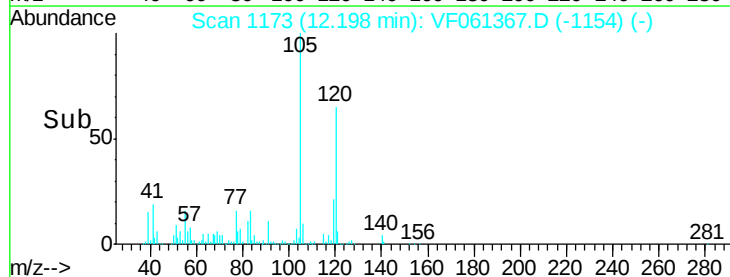
200000

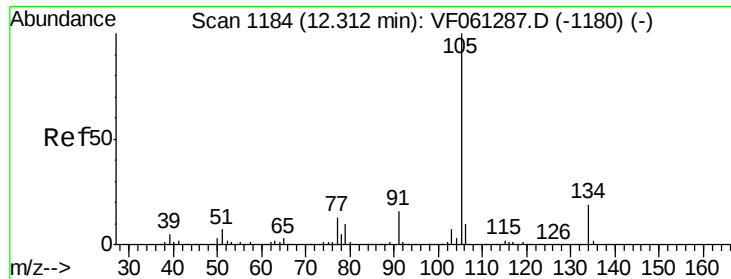
100000

0

12.10 12.20

Time-->





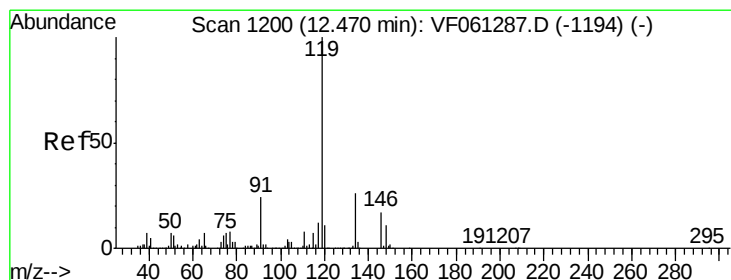
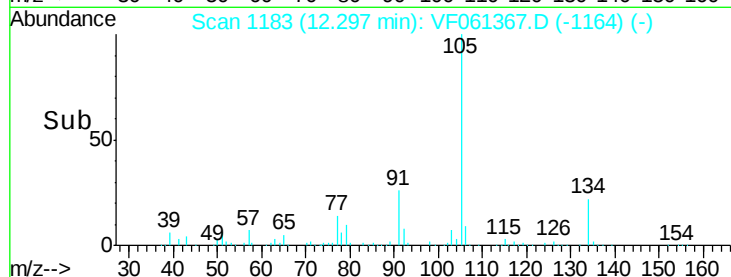
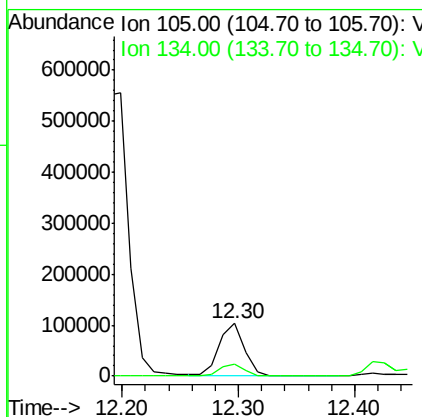
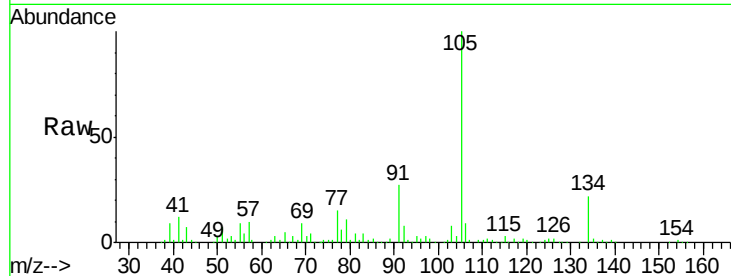
#85
 sec-Butylbenzene
 Concen: 23.960 ug/l
 RT: 12.30 min Scan# 1183
 Delta R.T. -0.02 min
 Lab File: VF061367.D
 Acq: 11 Jan 2019 14:45

Instrument :
 MSVOA_F
 ClientSampleId :
 DS-A

Tot Ion:105 Resp: 158546
 Ion Ratio Lower Upper
 105 100
 134 22.0 9.7 28.9

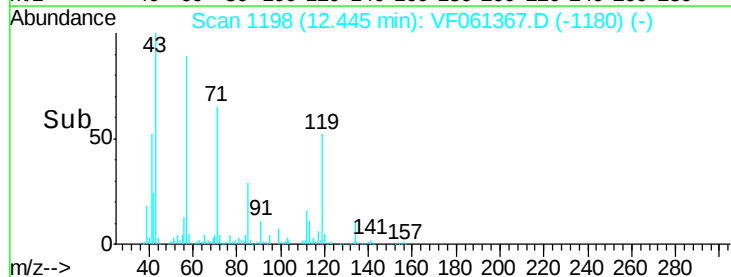
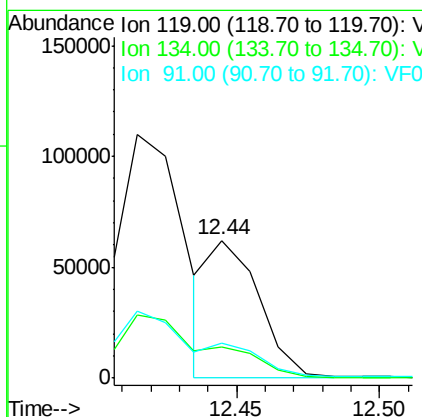
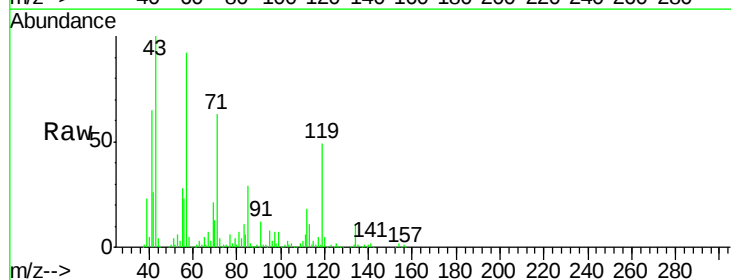
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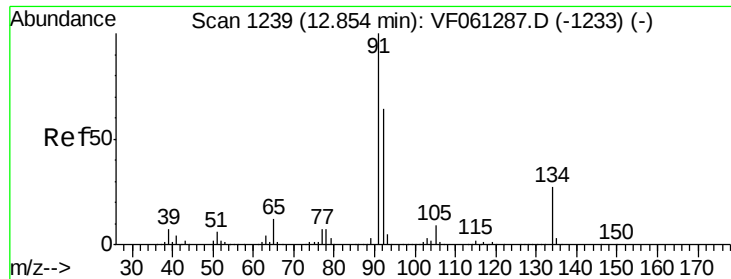
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#86
 p-Isopropyltoluene
 Concen: 13.989 ug/l m
 RT: 12.44 min Scan# 1198
 Delta R.T. -0.02 min
 Lab File: VF061367.D
 Acq: 11 Jan 2019 14:45

Tgt Ion:119 Resp: 75291
 Ion Ratio Lower Upper
 119 100
 134 22.9 13.0 39.0
 91 25.4 12.2 36.4





#89
n-Butylbenzene
Concen: 41.538 ug/l
RT: 12.83 min Scan# 1237
Delta R.T. -0.02 min
Lab File: VF061367.D
Acq: 11 Jan 2019 14:45

Instrument :
MSVOA_F
ClientSampleId :
DS-A

Tot Ion	Ratio	Resp Lower	Upper
91	100		
92	49.3	32.1	96.3
134	57.9	13.4	40.1#

Manual Integrations
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