

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011619\
 Data File : VF061421.D
 Acq On : 16 Jan 2019 19:41
 Operator : VA/AP
 Sample : K1167-01RE
 Misc : 5.92g/5mL/MSVOA-F/SOIL
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 JDHS-SOUTH-1RE

Quant Time: Jan 17 02:56:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	216607	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	405110	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	354537	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	181241	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	135342	50.61	ug/l	0.00
Spiked Amount			Recovery	=	101.22%	
35) Dibromofluoromethane	4.11	113	157745	49.35	ug/l	0.00
Spiked Amount			Recovery	=	98.70%	
50) Toluene-d8	7.54	98	403997	46.13	ug/l	0.00
Spiked Amount			Recovery	=	92.26%	
62) 4-Bromofluorobenzene	11.41	95	189113	46.21	ug/l	0.00
Spiked Amount			Recovery	=	92.42%	

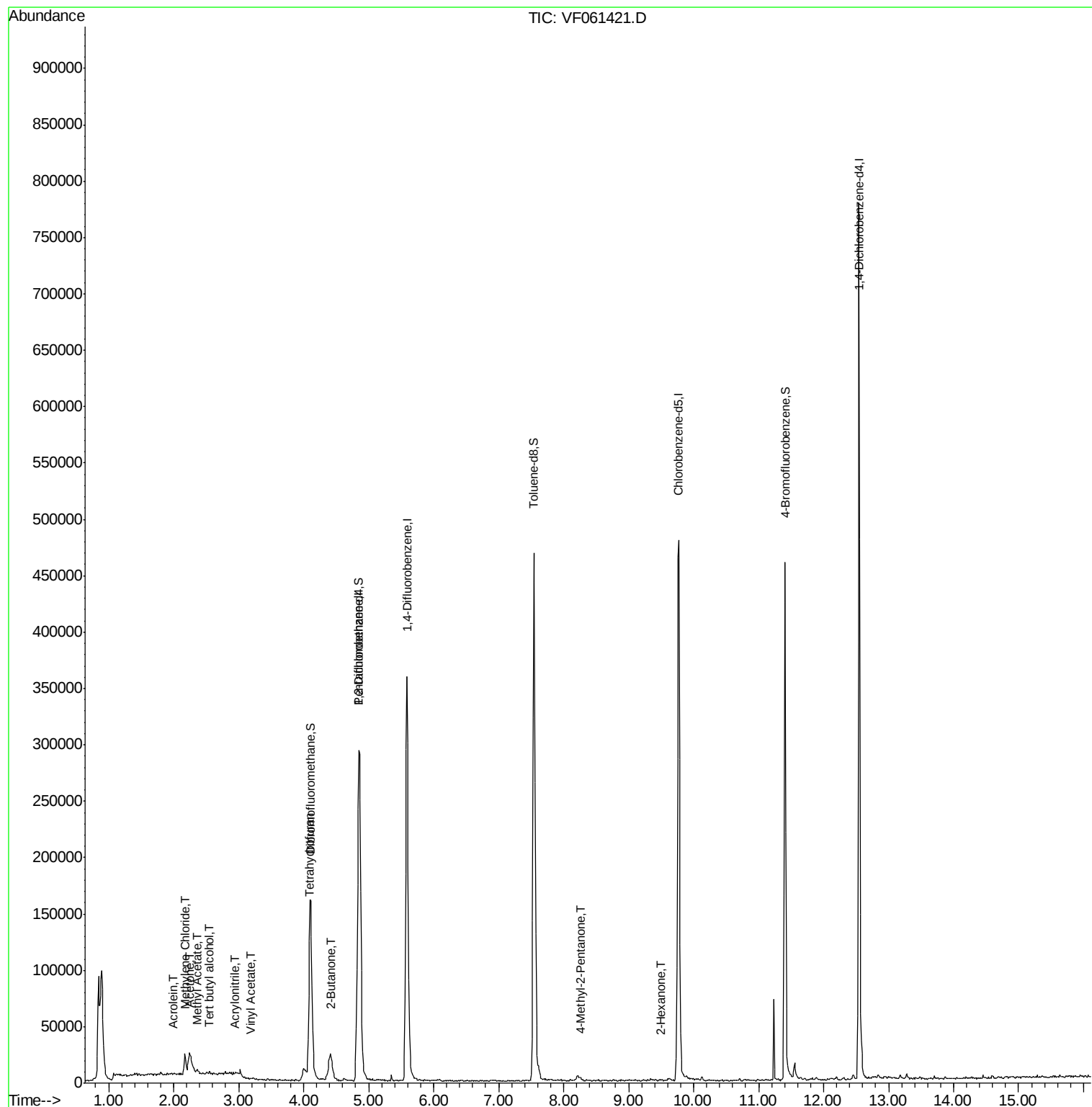
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.55	59	362	3.198	ug/l #	1
13) Acrolein	1.99	56	107	11.389	ug/l #	72
14) Allyl chloride	2.10	41	1029	Below Cal	#	48
15) Acrylonitrile	2.94	53	311	1.073	ug/l #	37
16) Acetone	2.24	43	11052	20.600	ug/l #	84
18) Methyl Acetate	2.37	43	2191	2.059	ug/l #	61
20) Methylene Chloride	2.18	84	7020	2.174	ug/l	90
23) Vinyl Acetate	3.19	43	223	3.267	ug/l #	78
25) 2-Butanone	4.41	43	1275	1.429	ug/l	95
29) Tetrahydrofuran	4.08	42	1793	4.667	ug/l #	67
49) 1,4-Dioxane	6.45	88	60	Below Cal	#	14
51) 4-Methyl-2-Pentanone	8.25	43	2612	1.508	ug/l #	71
59) 2-Hexanone	9.51	43	1592	1.318	ug/l	78

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.00 min

Lab File: VF061421.D

Acq: 16 Jan 2019 19:41

Instrument :

MSVOA_F

ClientSampleId :

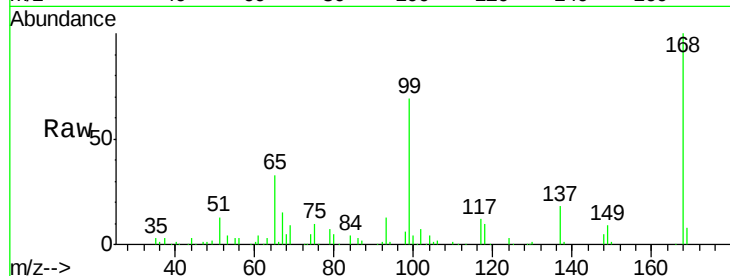
JDHS-SOUTH-1RE

Tot Ion:168 Resp: 216607

Ion Ratio Lower Upper

168 100

99 68.8 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

80000

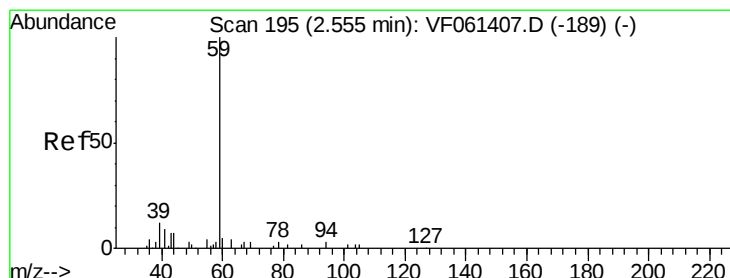
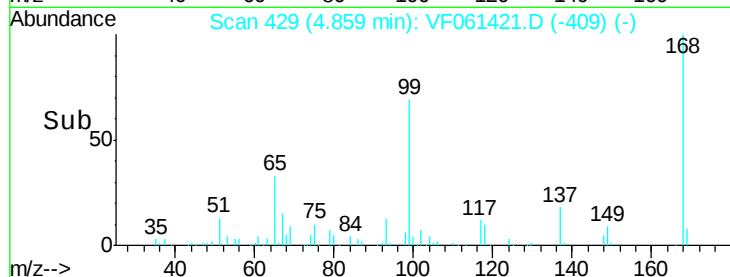
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 3.198 ug/l

RT: 2.55 min Scan# 195

Delta R.T. -0.00 min

Lab File: VF061421.D

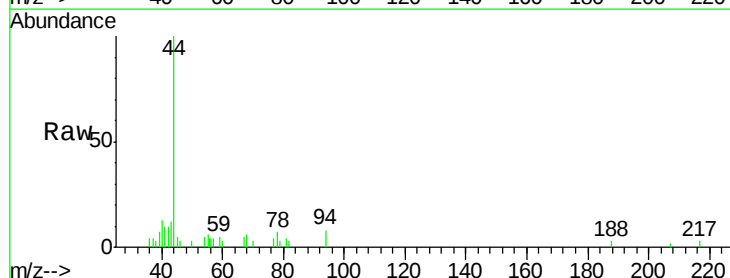
Acq: 16 Jan 2019 19:41

Tgt Ion: 59 Resp: 362

Ion Ratio Lower Upper

59 100

57 86.0 11.9 17.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

300

250

200

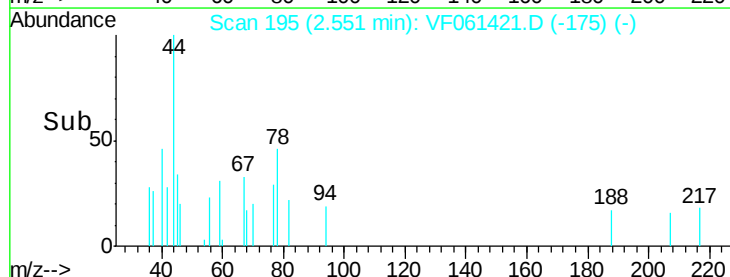
150

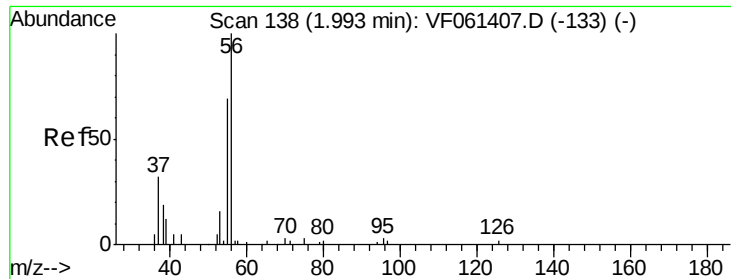
100

50

0

Time-->





#13

Acrolein

Concen: 11.389 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.00 min

Lab File: VF061421.D

Acq: 16 Jan 2019 19:41

Instrument :

MSVOA_F

ClientSampleId :

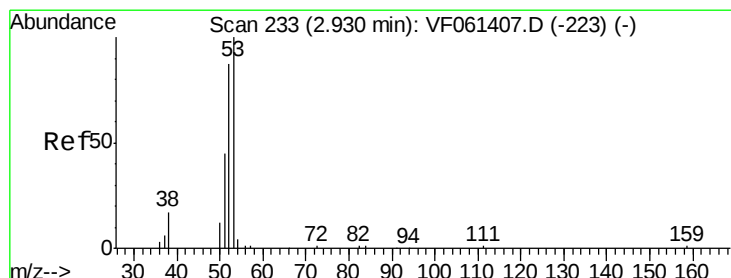
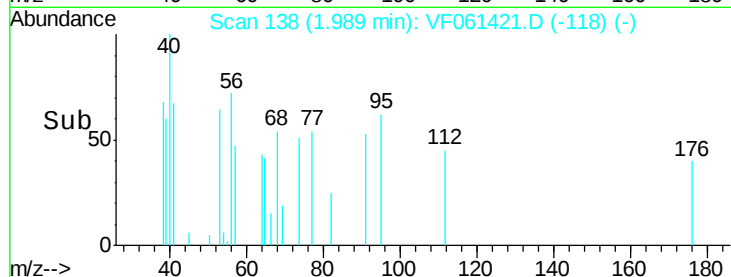
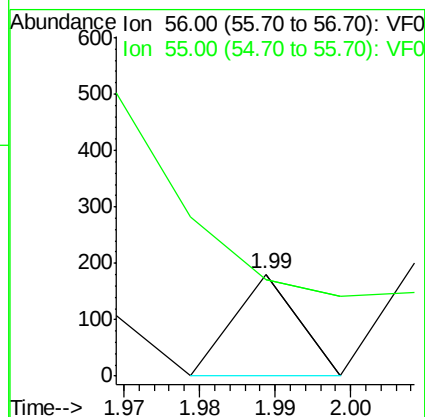
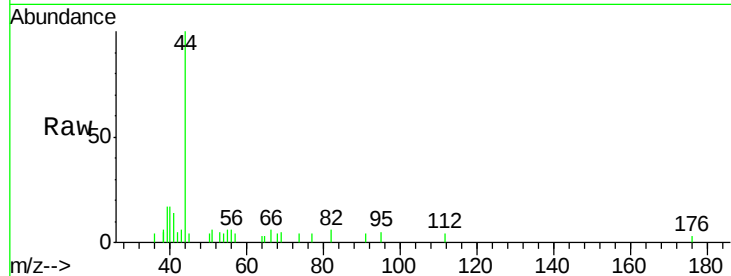
JDHS-SOUTH-1RE

Tot Ion: 56 Resp: 107

Ion Ratio Lower Upper

56 100

55 95.0 57.5 86.3#



#15

Acrylonitrile

Concen: 1.073 ug/l

RT: 2.94 min Scan# 234

Delta R.T. 0.01 min

Lab File: VF061421.D

Acq: 16 Jan 2019 19:41

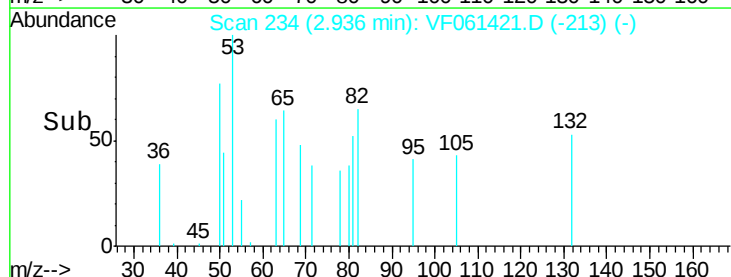
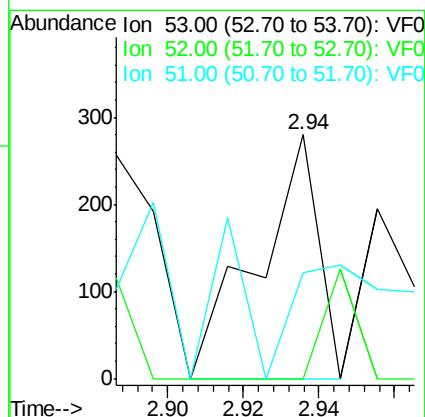
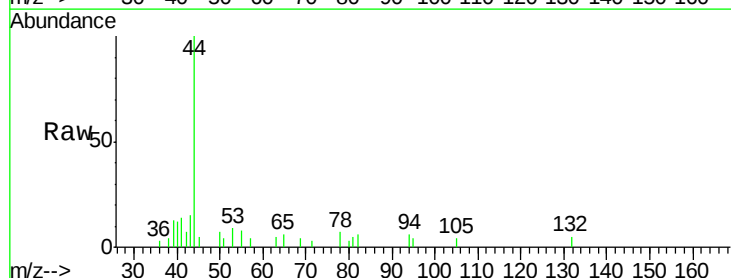
Tgt Ion: 53 Resp: 311

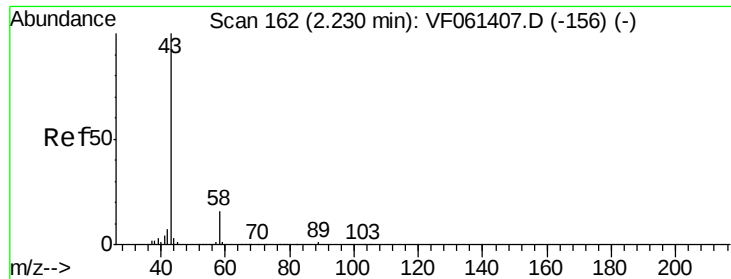
Ion Ratio Lower Upper

53 100

52 0.0 69.6 104.4#

51 43.6 36.8 55.2





#16

Acetone

Concen: 20.600 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.01 min

Lab File: VF061421.D

Acq: 16 Jan 2019 19:41

Instrument :

MSVOA_F

ClientSampleId :

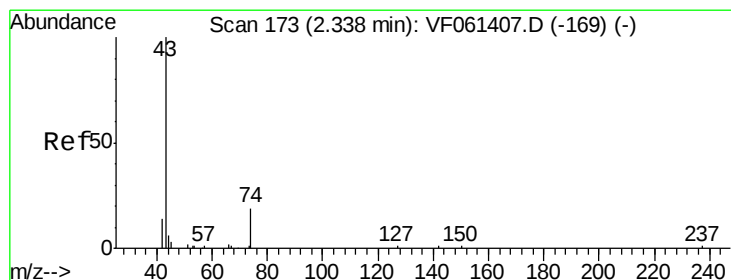
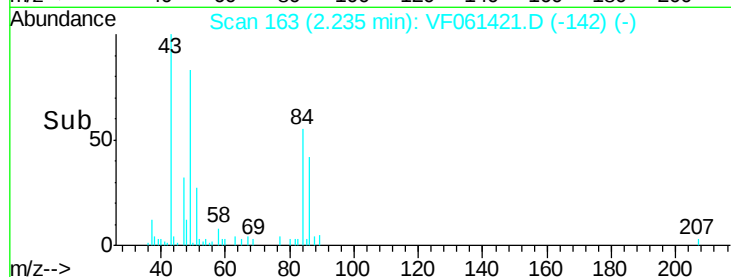
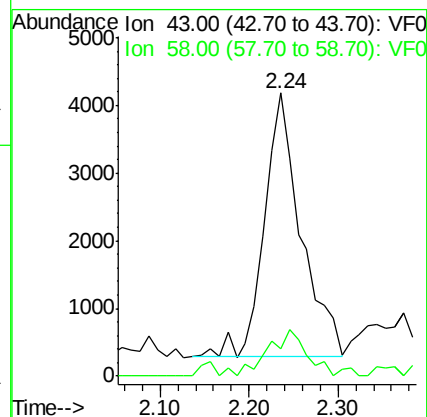
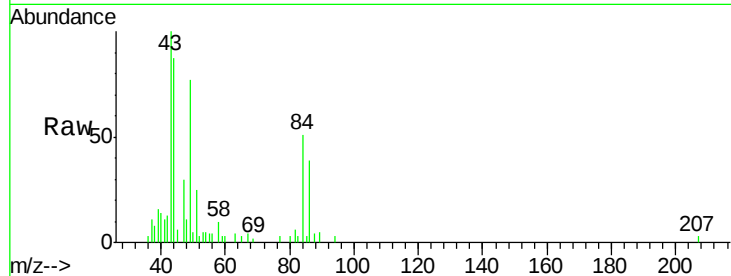
JDHS-SOUTH-1RE

Tot Ion: 43 Resp: 11052

Ion Ratio Lower Upper

43 100

58 9.8 13.3 19.9#



#18

Methyl Acetate

Concen: 2.059 ug/l

RT: 2.37 min Scan# 177

Delta R.T. 0.04 min

Lab File: VF061421.D

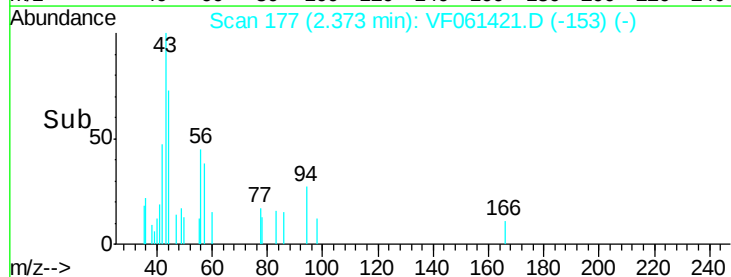
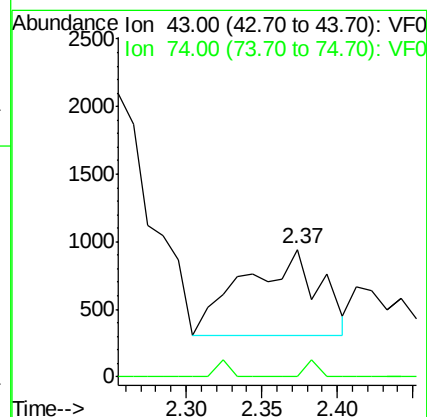
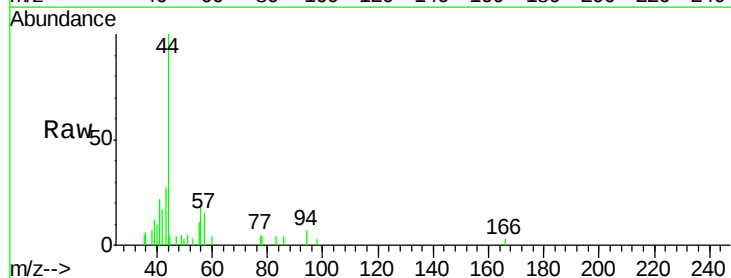
Acq: 16 Jan 2019 19:41

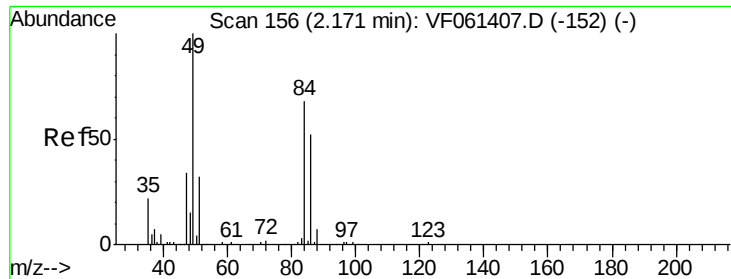
Tgt Ion: 43 Resp: 2191

Ion Ratio Lower Upper

43 100

74 0.0 13.4 20.0#

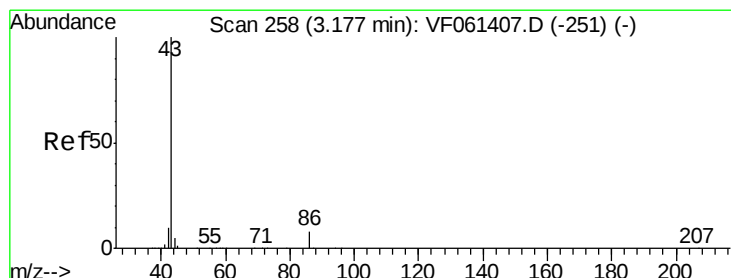
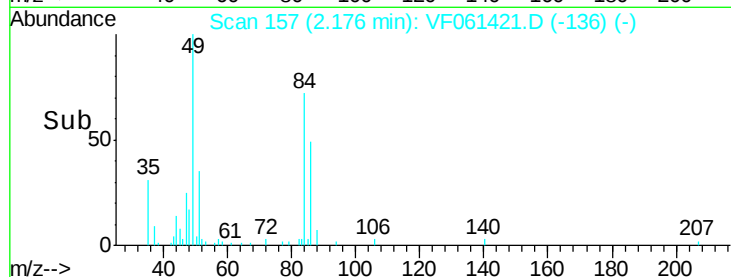
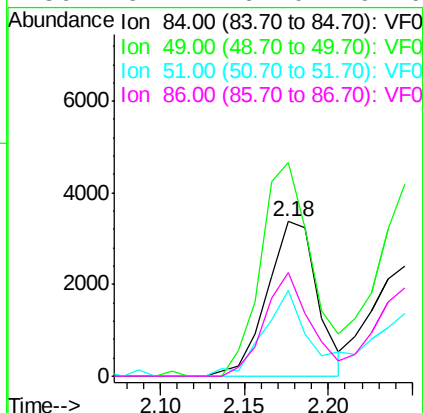
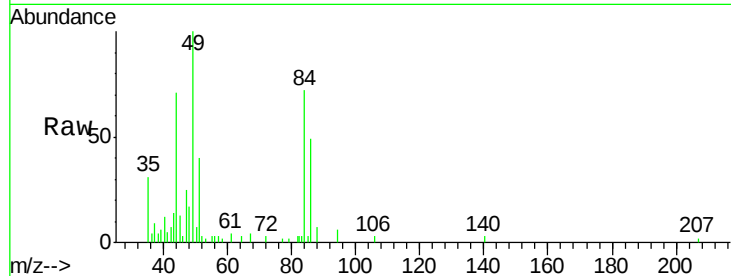




#20
Methvlene Chloride
Concen: 2.174 ug/l
RT: 2.18 min Scan# 157
Delta R.T. 0.01 min
Lab File: VF061421.D
Acq: 16 Jan 2019 19:41

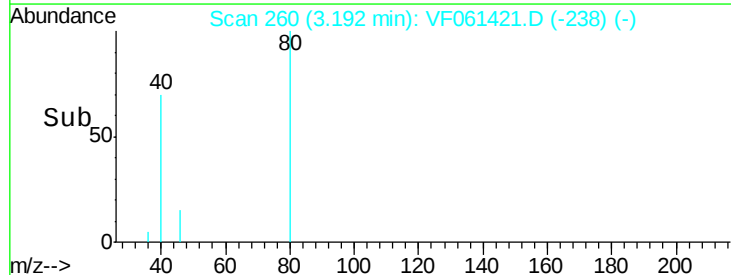
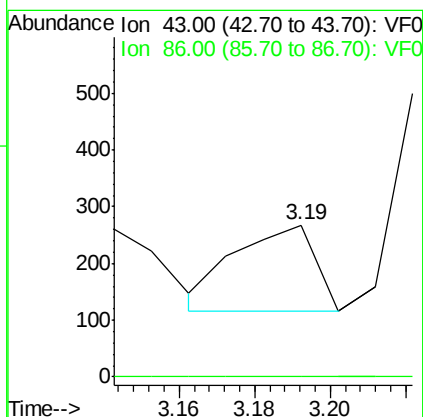
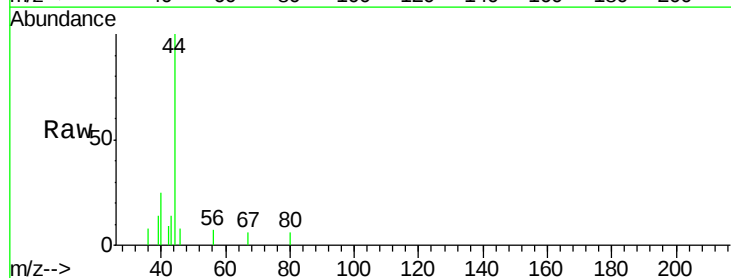
Instrument :
MSVOA_F
ClientSampleId :
JDHS-SOUTH-1RE

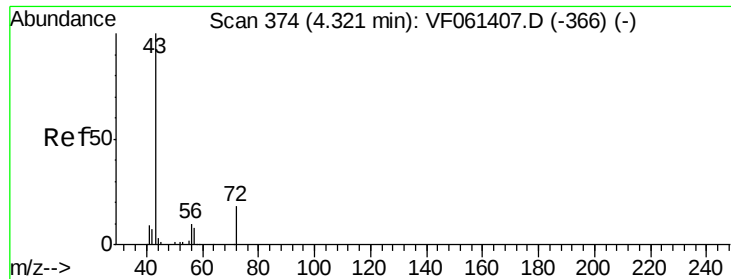
Tot Ion: 84 Resp: 7020
Ion Ratio Lower Upper
84 100
49 138.0 120.0 180.0
51 55.1 38.6 58.0
86 67.2 61.0 91.6



#23
Vinyl Acetate
Concen: 3.267 ug/l
RT: 3.19 min Scan# 260
Delta R.T. 0.02 min
Lab File: VF061421.D
Acq: 16 Jan 2019 19:41

Tgt Ion: 43 Resp: 223
Ion Ratio Lower Upper
43 100
86 0.0 6.2 9.4#





#25

2-Butanone

Concen: 1.429 ug/l

RT: 4.41 min Scan# 383

Delta R.T. 0.08 min

Lab File: VF061421.D

Acq: 16 Jan 2019 19:41

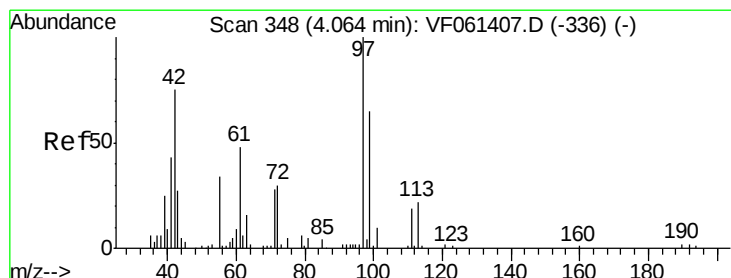
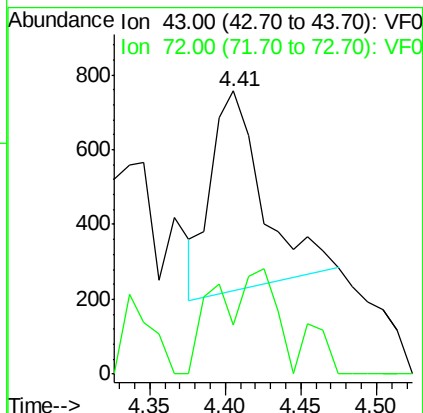
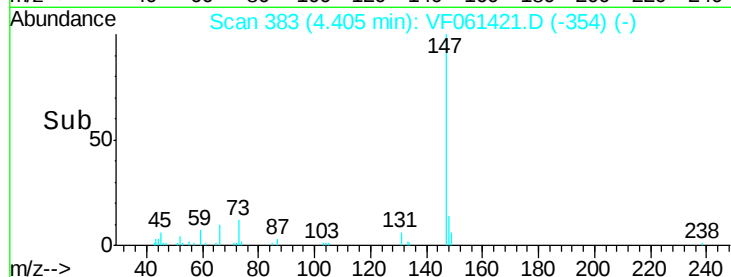
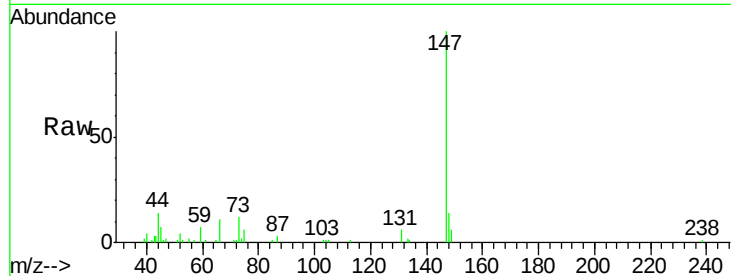
Instrument :
MSVOA_F
ClientSampleId :
JDHS-SOUTH-1RE

Tot Ion: 43 Resp: 1275

Ion Ratio Lower Upper

43 100

72 17.3 15.8 23.6



#29

Tetrahydrofuran

Concen: 4.667 ug/l

RT: 4.08 min Scan# 350

Delta R.T. 0.02 min

Lab File: VF061421.D

Acq: 16 Jan 2019 19:41

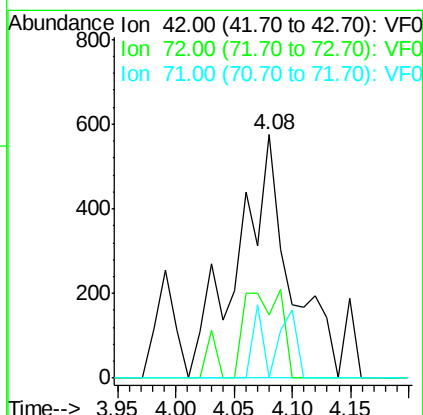
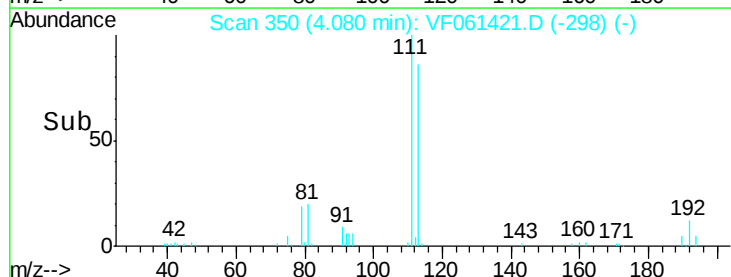
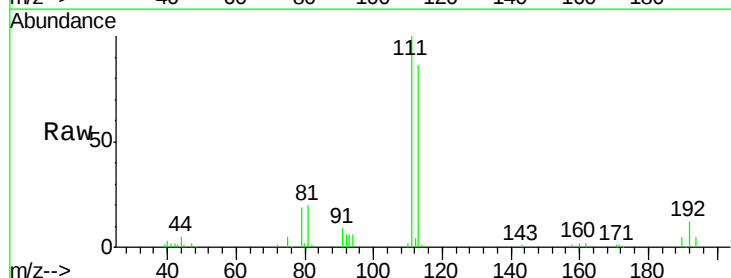
Tgt Ion: 42 Resp: 1793

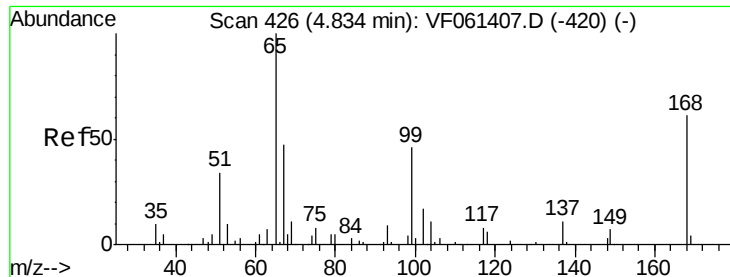
Ion Ratio Lower Upper

42 100

72 25.2 28.9 43.3#

71 9.0 29.6 44.4#





#33

1,2-Dichloroethane-d4

Concen: 50.608 ug/l

RT: 4.84 min Scan# 427

Delta R.T. 0.01 min

Lab File: VF061421.D

Acq: 16 Jan 2019 19:41

Instrument :

MSVOA_F

ClientSampleId :

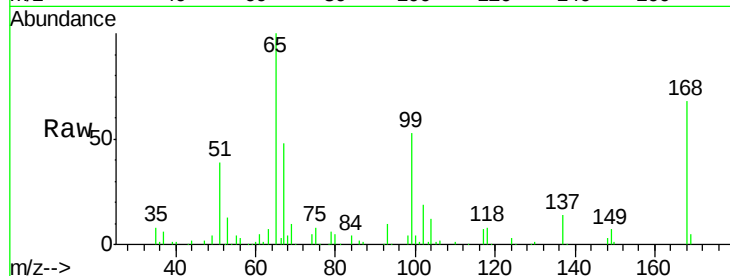
JDHS-SOUTH-1RE

Tot Ion: 65 Resp: 135342

Ion Ratio Lower Upper

65 100

67 48.5 0.0 99.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

4.84

50000

40000

30000

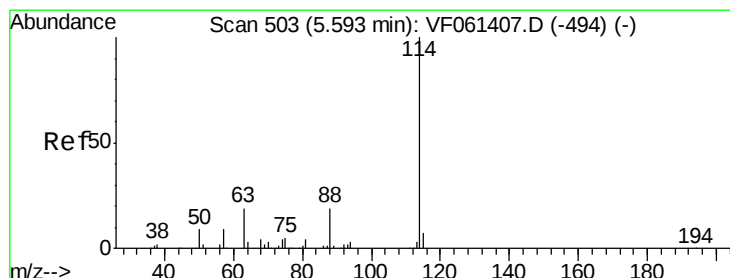
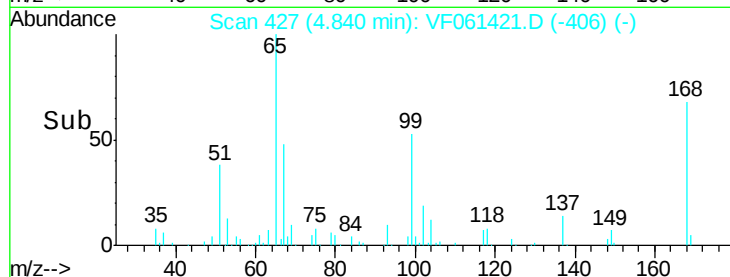
20000

10000

0

4.70 4.80 4.90 5.00

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.00 min

Lab File: VF061421.D

Acq: 16 Jan 2019 19:41

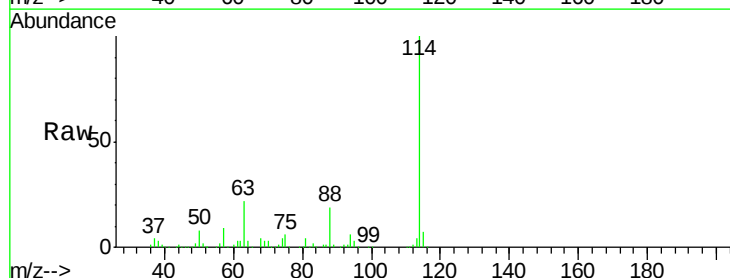
Tgt Ion: 114 Resp: 405110

Ion Ratio Lower Upper

114 100

63 21.9 0.0 39.0

88 18.7 0.0 37.4



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

200000

150000

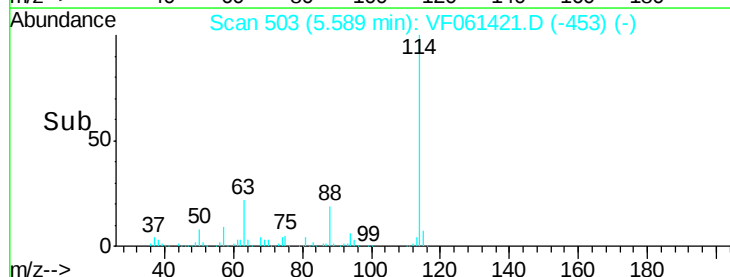
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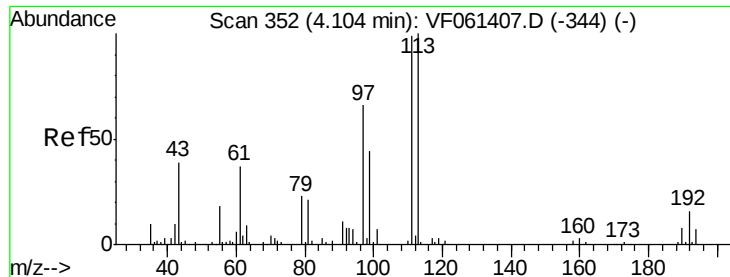
50000

0

5.40 5.50 5.60 5.70 5.80

Time-->





#35

Dibromofluoromethane

Concen: 49.347 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.01 min

Lab File: VF061421.D

Acq: 16 Jan 2019 19:41

Instrument :
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JDHS-SOUTH-1RE

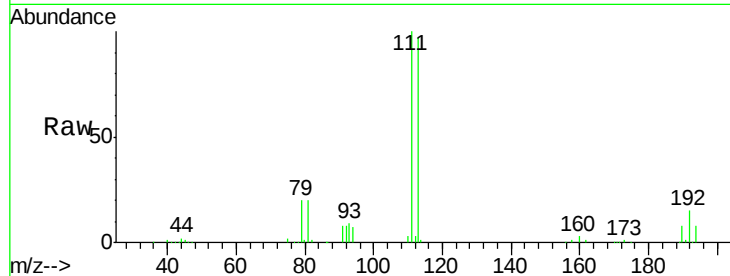
Tot Ion:113 Resp: 157745

Ion Ratio Lower Upper

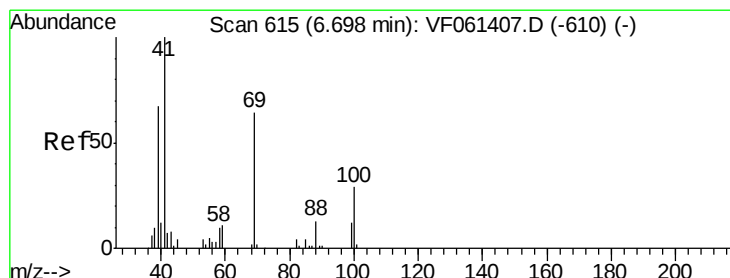
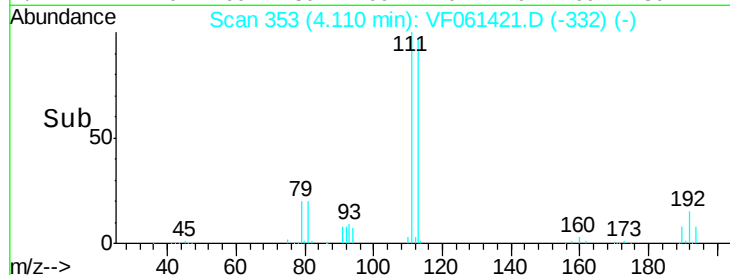
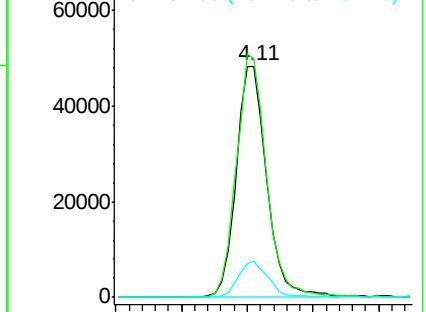
113 100

111 103.1 79.4 119.0

192 15.7 12.4 18.6



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



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.45 min Scan# 590

Delta R.T. -0.25 min

Lab File: VF061421.D

Acq: 16 Jan 2019 19:41

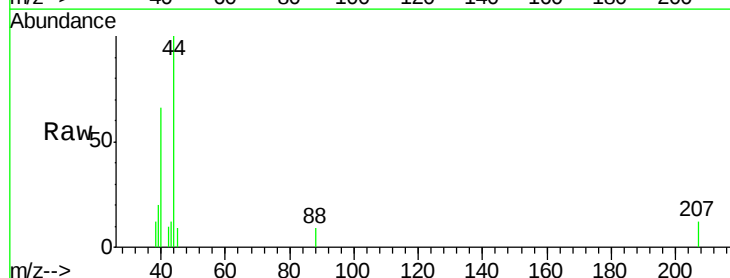
Tgt Ion: 88 Resp: 60

Ion Ratio Lower Upper

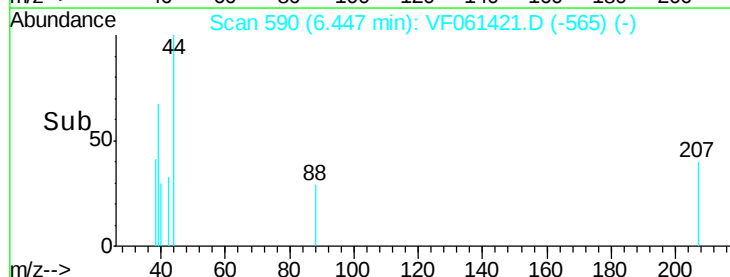
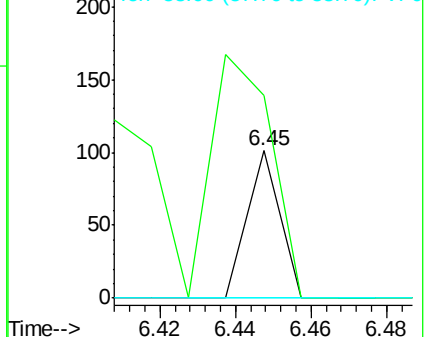
88 100

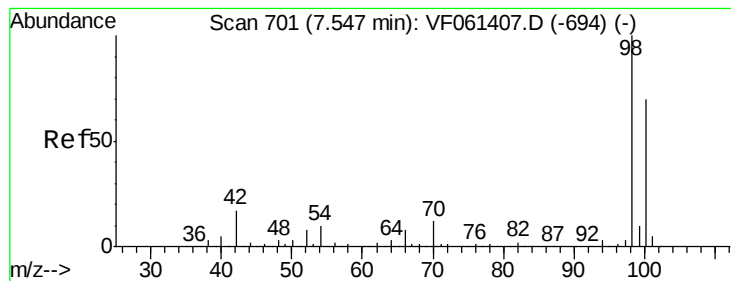
43 137.6 55.5 83.3#

58 0.0 59.9 89.9#



Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 46.127 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.00 min

Lab File: VF061421.D

Acq: 16 Jan 2019 19:41

Instrument :

MSVOA_F

ClientSampleId :

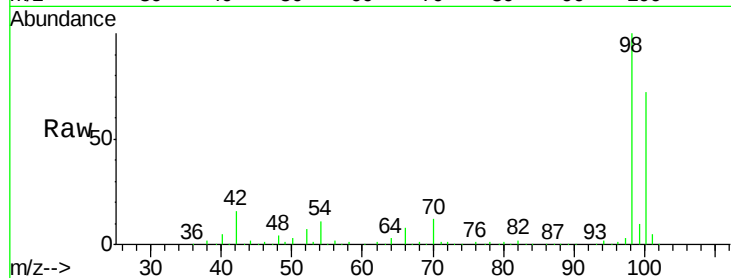
JDHS-SOUTH-1RE

Tot Ion: 98 Resp: 403997

Ion Ratio Lower Upper

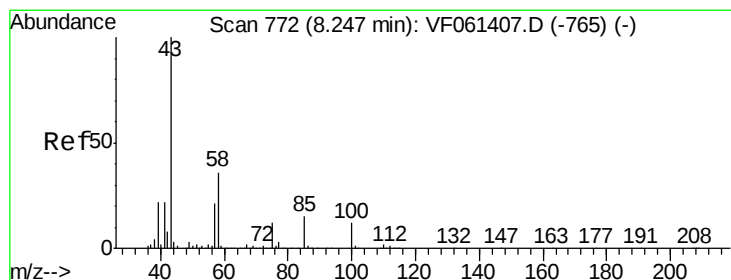
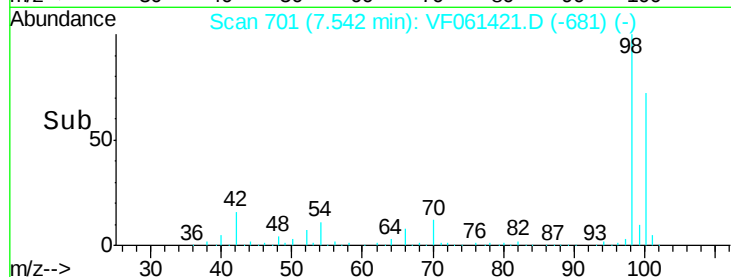
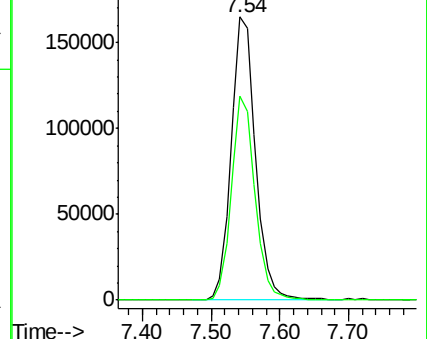
98 100

100 72.0 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#51

4-Methyl-2-Pentanone

Concen: 1.508 ug/l

RT: 8.25 min Scan# 773

Delta R.T. 0.01 min

Lab File: VF061421.D

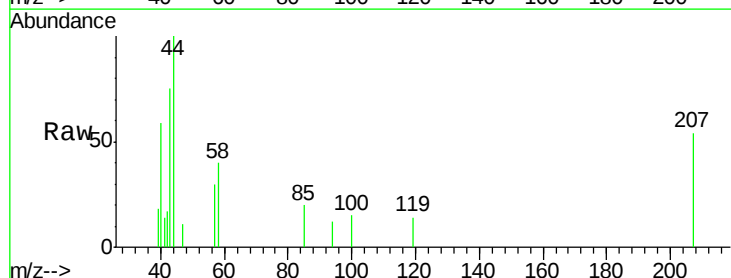
Acq: 16 Jan 2019 19:41

Tgt Ion: 43 Resp: 2612

Ion Ratio Lower Upper

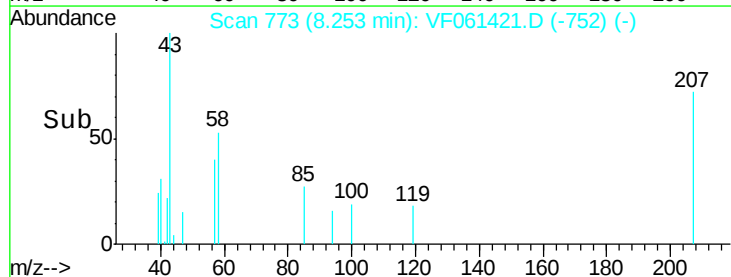
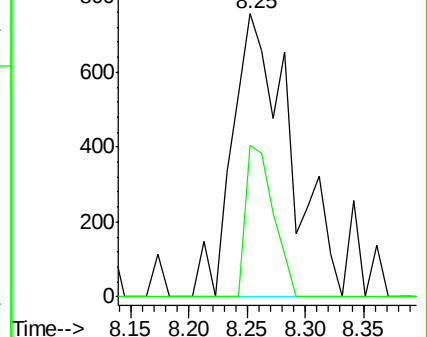
43 100

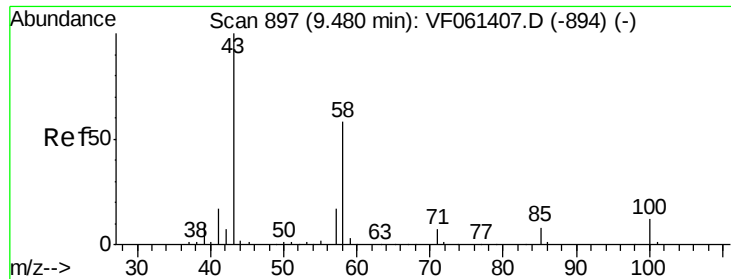
58 53.3 28.8 43.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

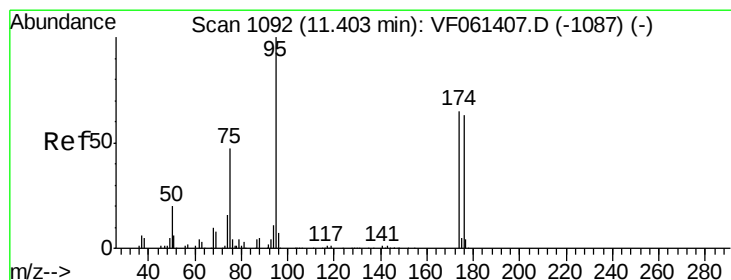
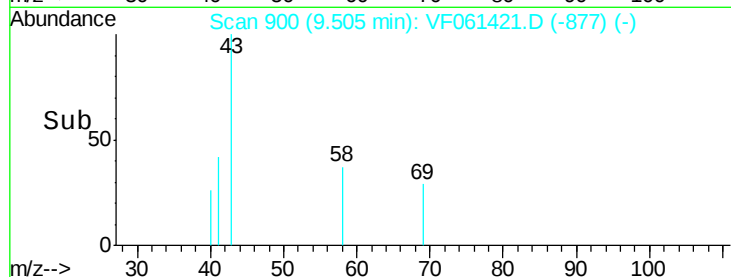
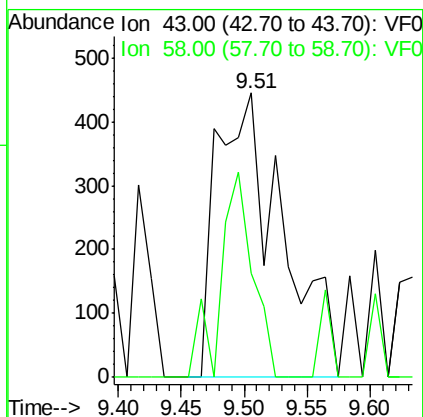
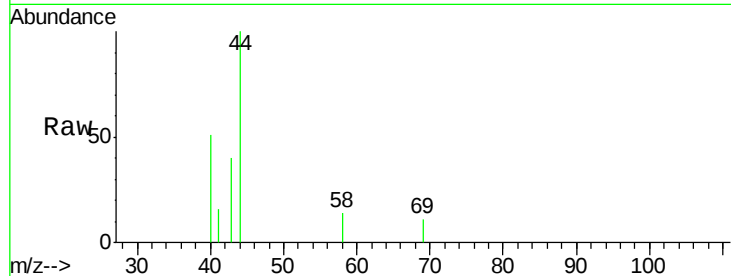




#59
2-Hexanone
Concen: 1.318 ug/l
RT: 9.51 min Scan# 900
Delta R.T. 0.03 min
Lab File: VF061421.D
Acq: 16 Jan 2019 19:41

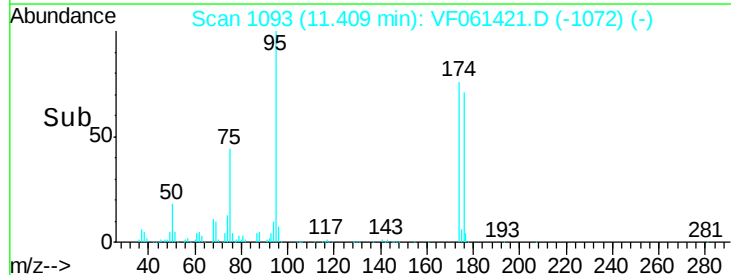
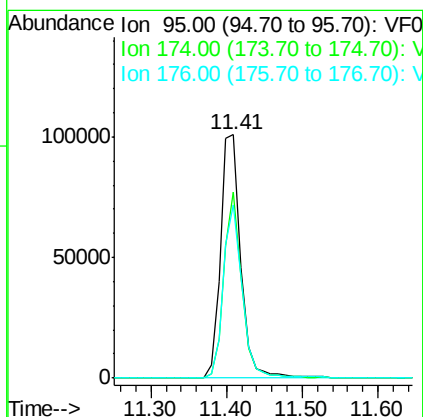
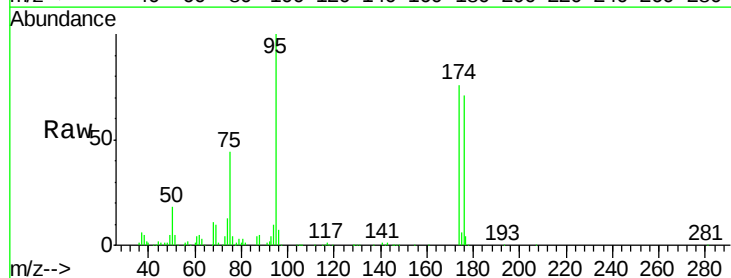
Instrument :
MSVOA_F
ClientSampleId :
JDHS-SOUTH-1RE

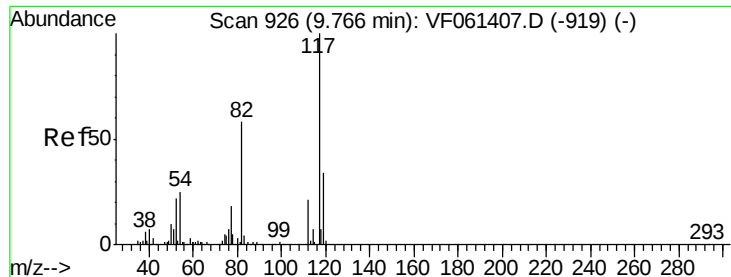
Tot Ion: 43 Resp: 1592
Ion Ratio Lower Upper
43 100
58 36.5 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 46.214 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. 0.01 min
Lab File: VF061421.D
Acq: 16 Jan 2019 19:41

Tgt Ion: 95 Resp: 189113
Ion Ratio Lower Upper
95 100
174 76.3 0.0 130.4
176 71.3 0.0 126.2

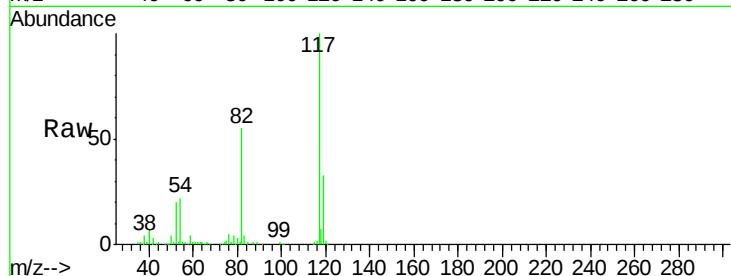




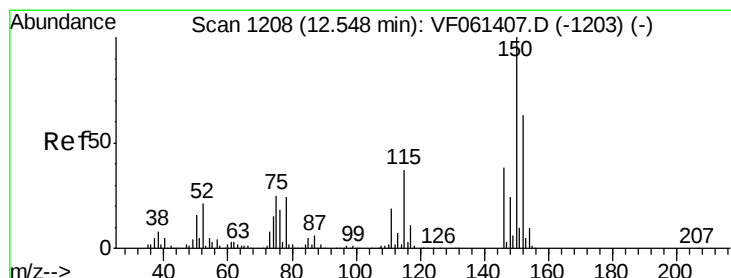
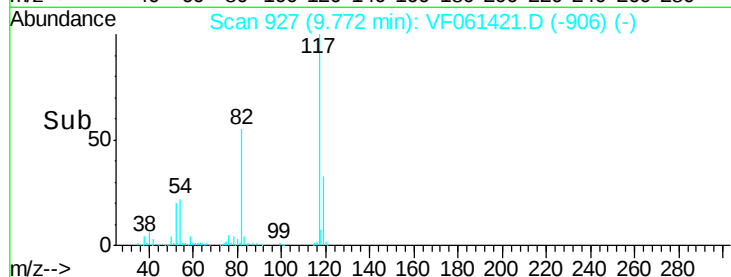
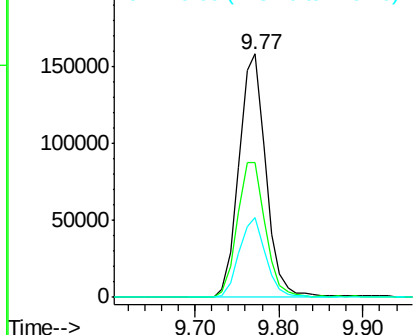
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. 0.01 min
Lab File: VF061421.D
Acq: 16 Jan 2019 19:41

Instrument :
MSVOA_F
ClientSampleId :
JDHS-SOUTH-1RE

Tot Ion:117 Resp: 354537
Ion Ratio Lower Upper
117 100
82 55.3 46.4 69.6
119 32.6 27.2 40.8

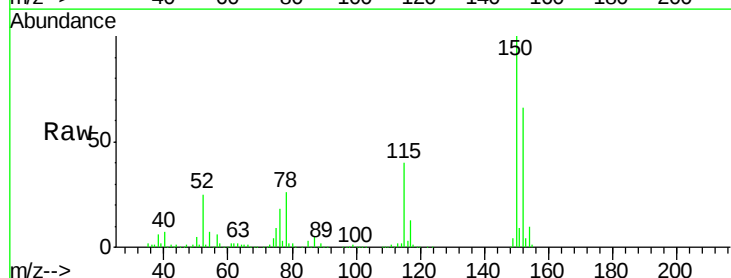


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.00 min
Lab File: VF061421.D
Acq: 16 Jan 2019 19:41

Tgt Ion:152 Resp: 181241
Ion Ratio Lower Upper
152 100
115 61.3 30.0 90.0
150 151.4 0.0 321.4



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V

