

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF050719\
 Data File : VF062363.D
 Acq On : 7 May 2019 17:53
 Operator : FY/SY
 Sample : K2647-03
 Misc : 5.21g/5mL/MSVOA_F/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SU-04-050219-B

Quant Time: May 07 18:15:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	383797	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.76	114	511619	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	416323	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.60	152	256966	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	152621	42.08	ug/l	0.00
Spiked Amount 50.000			Recovery	=	84.16%	
35) Dibromofluoromethane	4.29	113	189600	46.52	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.04%	
50) Toluene-d8	7.70	98	399000	40.44	ug/l	0.00
Spiked Amount 50.000			Recovery	=	80.88%	
62) 4-Bromofluorobenzene	11.49	95	187420	42.10	ug/l	0.00
Spiked Amount 50.000			Recovery	=	84.20%	

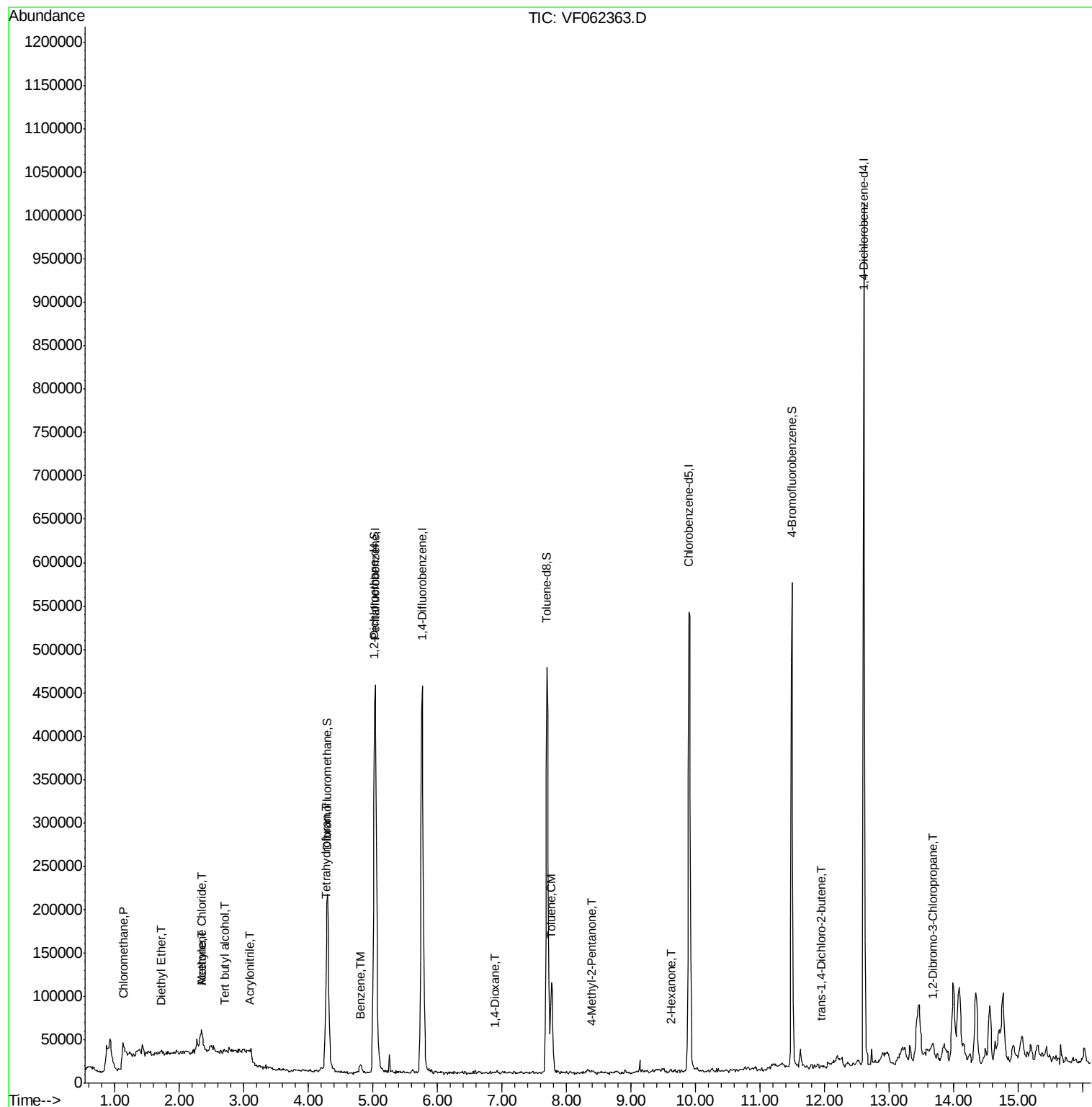
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.12	50	3840	1.311	ug/l #	42
5) Bromomethane	1.42	94	457	Below Cal	#	3
8) Diethyl Ether	1.71	74	1057	1.152	ug/l	57
11) Tert butyl alcohol	2.69	59	482	2.351	ug/l #	1
13) Acrolein	2.11	56	510	Below Cal	#	60
15) Acrylonitrile	3.08	53	1975	5.086	ug/l #	16
16) Acetone	2.33	43	12846	17.508	ug/l	93
18) Methyl Acetate	2.47	43	2574	Below Cal		97
20) Methylene Chloride	2.34	84	12336	4.647	ug/l #	89
29) Tetrahydrofuran	4.27	42	1195	2.821	ug/l #	47
37) Ethyl Acetate	4.31	43	1400	Below Cal	#	85
38) Carbon Tetrachloride	4.19	117	187	Below Cal	#	14
40) Benzene	4.80	78	10268	1.061	ug/l	97
49) 1,4-Dioxane	6.89	88	222	2.241	ug/l #	1
51) 4-Methyl-2-Pentanone	8.39	43	3361	2.219	ug/l #	83
52) Toluene	7.76	92	52883	8.857	ug/l	97
59) 2-Hexanone	9.63	43	1719	1.641	ug/l	92
81) trans-1,4-Dichloro-2-buten	11.95	75	855	1.250	ug/l #	5
92) 1,2-Dibromo-3-Chloropropan	13.67	75	1093	2.045	ug/l #	1

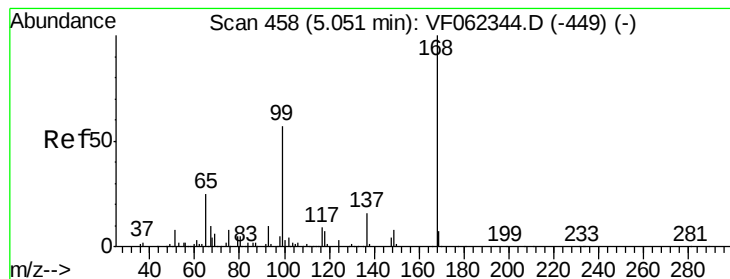
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 457

Delta R.T. -0.02 min

Lab File: VF062363.D

Acq: 7 May 2019 17:53

Instrument :

MSVOA_F

ClientSampleId :

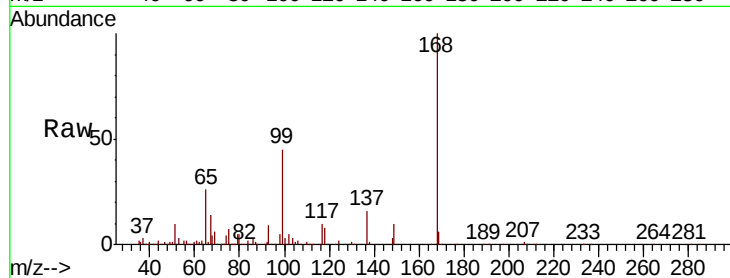
SU-04-050219-B

Tgt Ion:168 Resp: 383797

Ion Ratio Lower Upper

168 100

99 44.9 45.9 68.9#



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.03

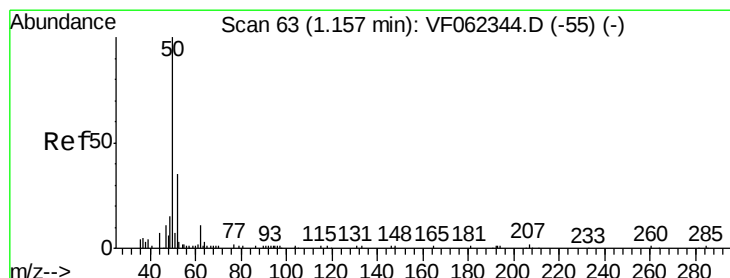
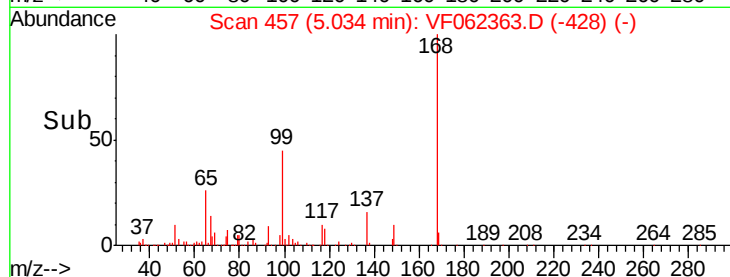
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 1.311 ug/l

RT: 1.12 min Scan# 60

Delta R.T. -0.04 min

Lab File: VF062363.D

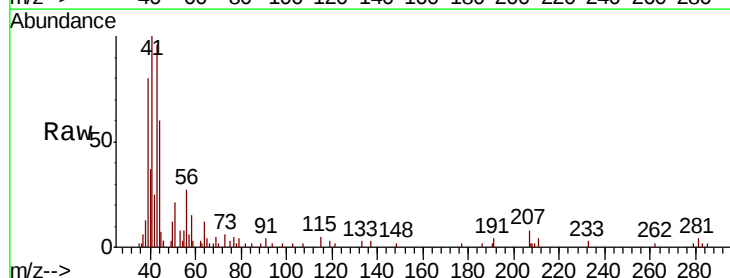
Acq: 7 May 2019 17:53

Tgt Ion: 50 Resp: 3840

Ion Ratio Lower Upper

50 100

52 0.0 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VF0

Ion 51.90 (51.60 to 52.60): VF0

1.12

800

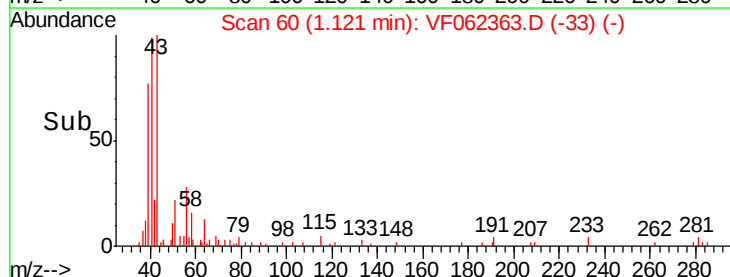
600

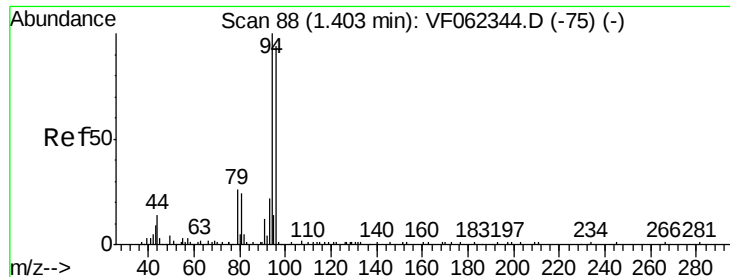
400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.42 min Scan# 90

Delta R.T. 0.01 min

Lab File: VF062363.D

Acq: 7 May 2019 17:53

Instrument :

MSVOA_F

ClientSampleId :

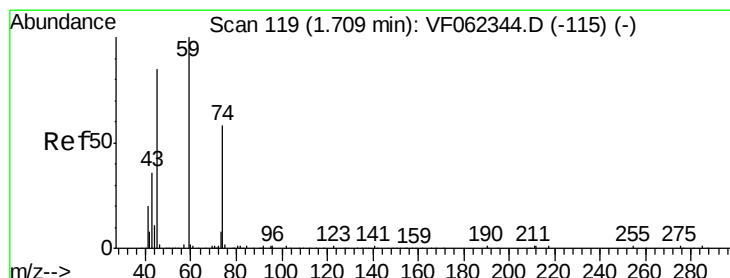
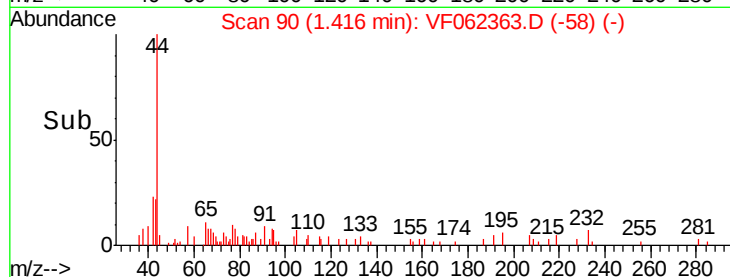
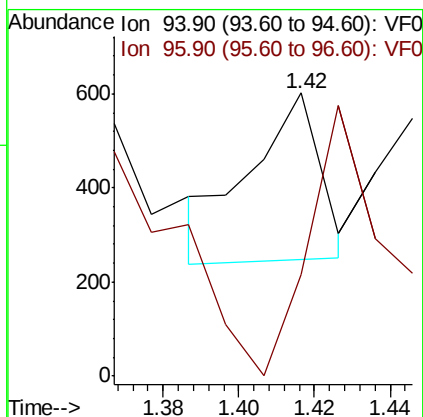
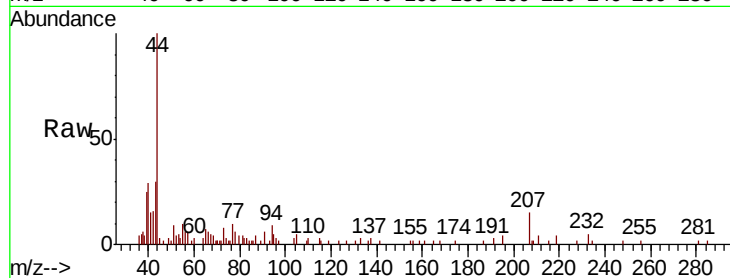
SU-04-050219-B

Tgt Ion: 94 Resp: 457

Ion Ratio Lower Upper

94 100

96 0.0 75.4 113.2#



#8

Diethyl Ether

Concen: 1.152 ug/l

RT: 1.71 min Scan# 120

Delta R.T. 0.00 min

Lab File: VF062363.D

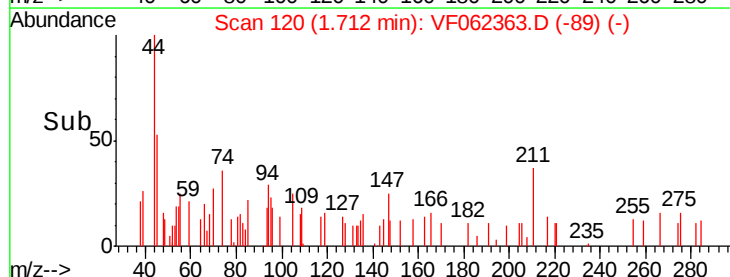
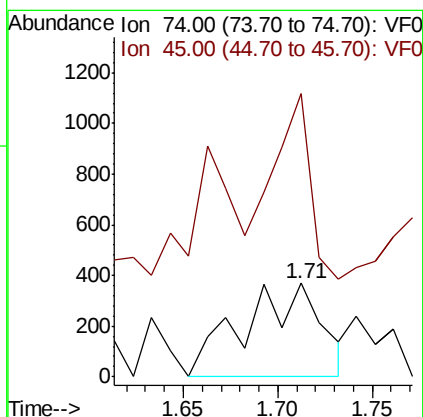
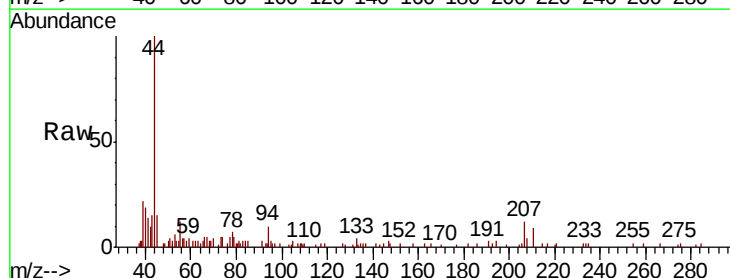
Acq: 7 May 2019 17:53

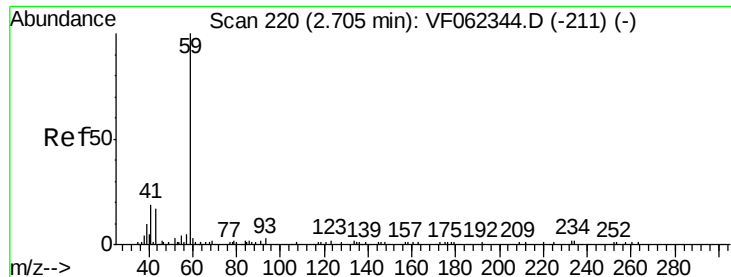
Tgt Ion: 74 Resp: 1057

Ion Ratio Lower Upper

74 100

45 94.1 73.9 221.6

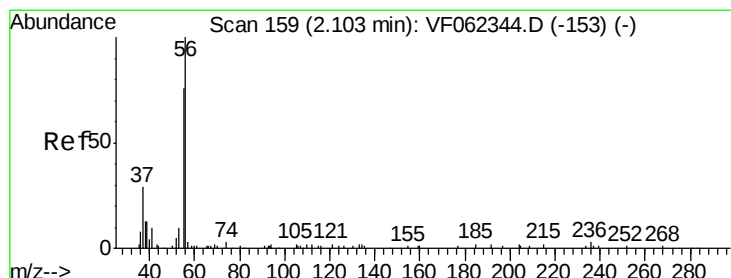
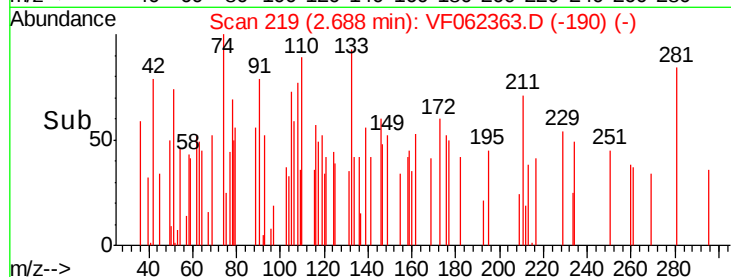
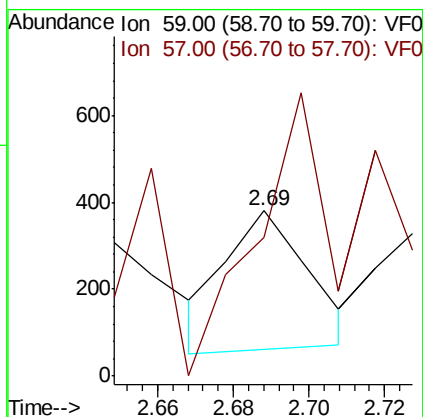
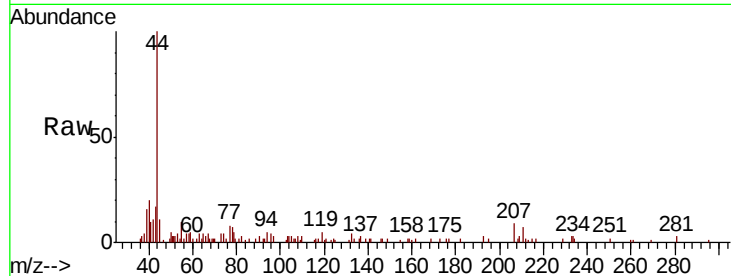




#11
Tert butyl alcohol
Concen: 2.351 ug/l
RT: 2.69 min Scan# 219
Delta R.T. -0.02 min
Lab File: VF062363.D
Acq: 7 May 2019 17:53

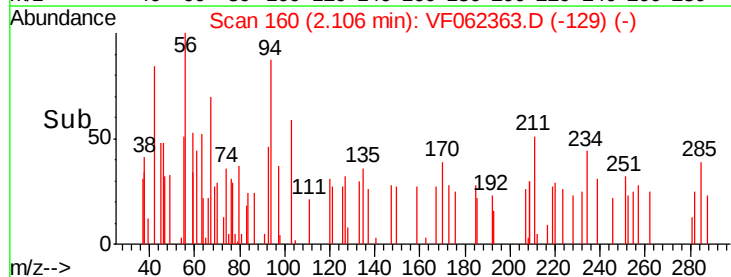
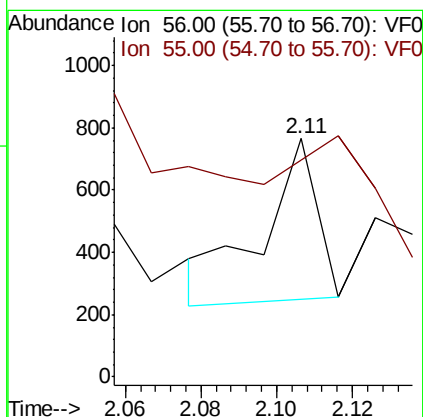
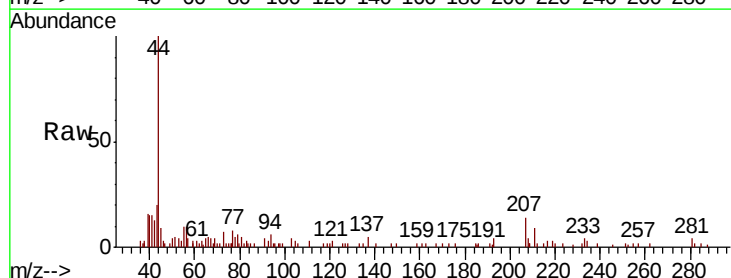
Instrument :
MSVOA_F
ClientSampleId :
SU-04-050219-B

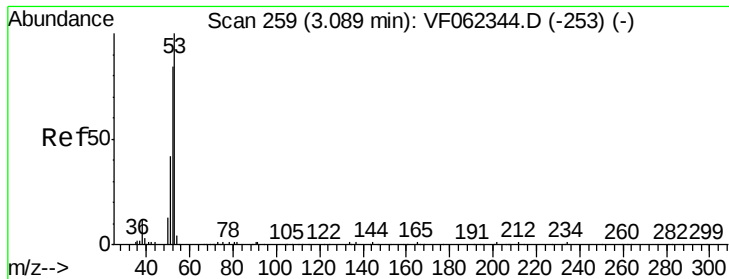
Tgt Ion: 59 Resp: 482
Ion Ratio Lower Upper
59 100
57 404.4 9.3 13.9#



#13
Acrolein
Concen: Below Cal
RT: 2.11 min Scan# 160
Delta R.T. 0.00 min
Lab File: VF062363.D
Acq: 7 May 2019 17:53

Tgt Ion: 56 Resp: 510
Ion Ratio Lower Upper
56 100
55 106.7 58.4 87.6#





#15

Acrylonitrile

Concen: 5.086 ug/l

RT: 3.08 min Scan# 259

Delta R.T. -0.01 min

Lab File: VF062363.D

Acq: 7 May 2019 17:53

Instrument :

MSVOA_F

ClientSampleId :

SU-04-050219-B

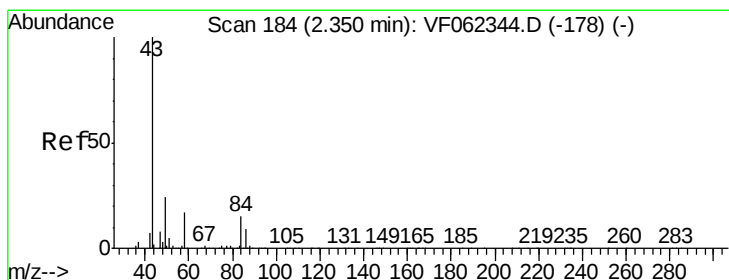
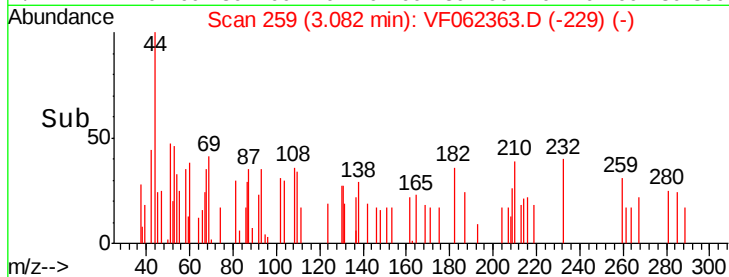
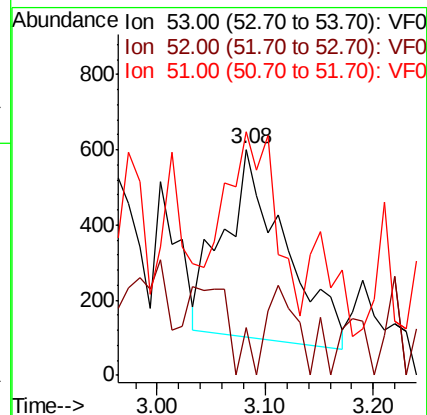
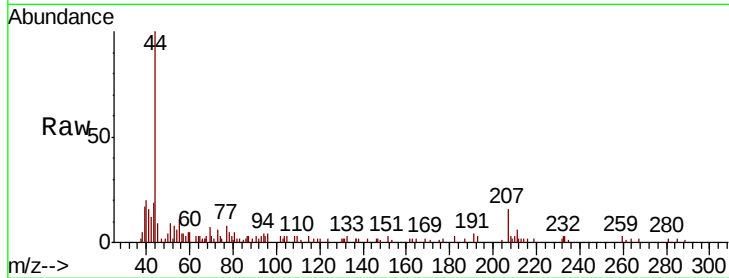
Tgt Ion: 53 Resp: 1975

Ion Ratio Lower Upper

53 100

52 0.0 77.2 115.8#

51 89.8 40.6 61.0#



#16

Acetone

Concen: 17.508 ug/l

RT: 2.33 min Scan# 183

Delta R.T. -0.02 min

Lab File: VF062363.D

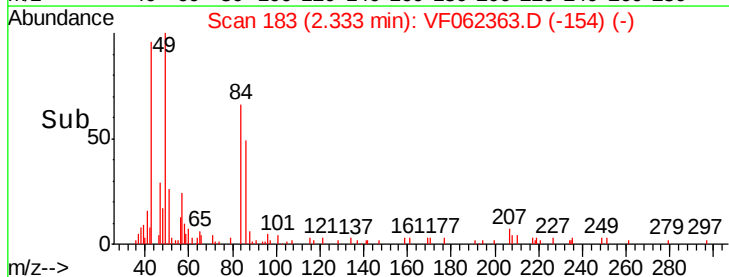
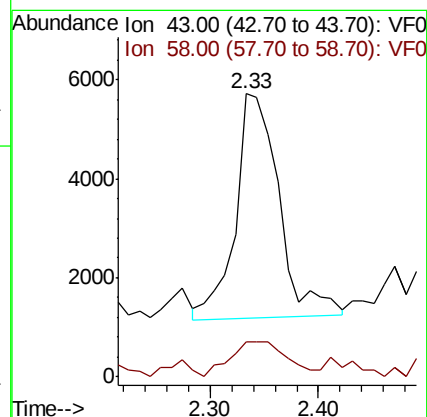
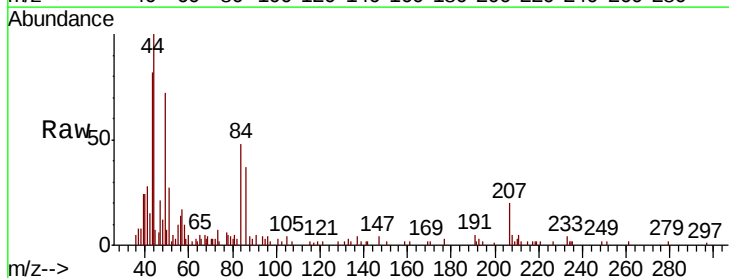
Acq: 7 May 2019 17:53

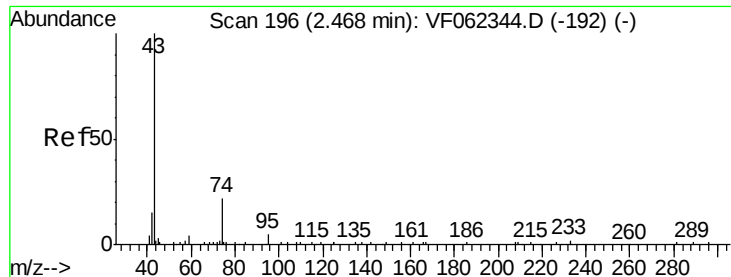
Tgt Ion: 43 Resp: 12846

Ion Ratio Lower Upper

43 100

58 13.2 13.1 19.7

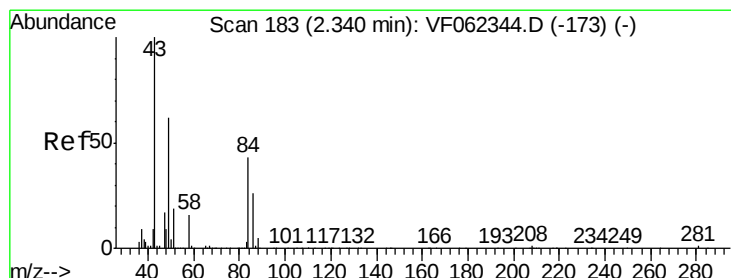
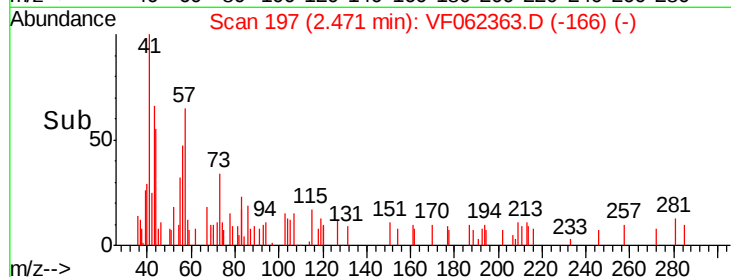
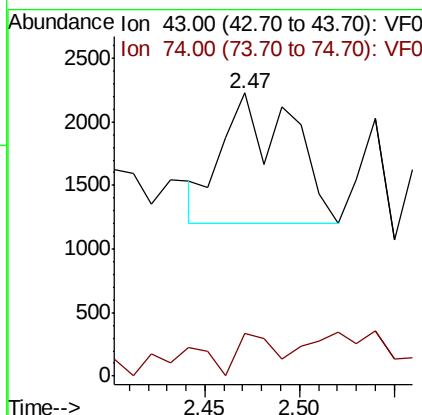
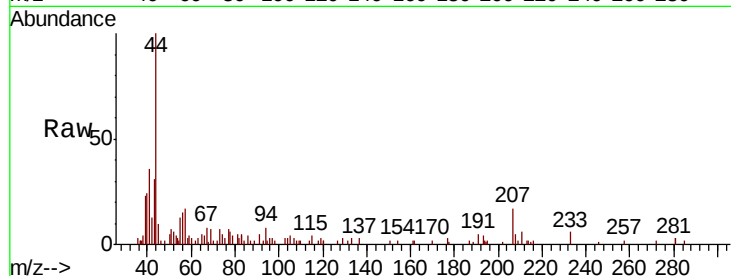




#18
Methyl Acetate
Concen: Below Cal
RT: 2.47 min Scan# 197
Delta R.T. 0.00 min
Lab File: VF062363.D
Acq: 7 May 2019 17:53

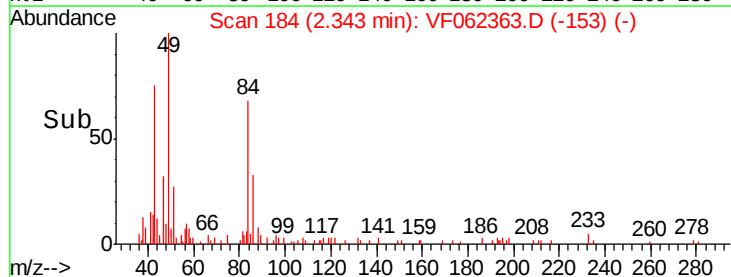
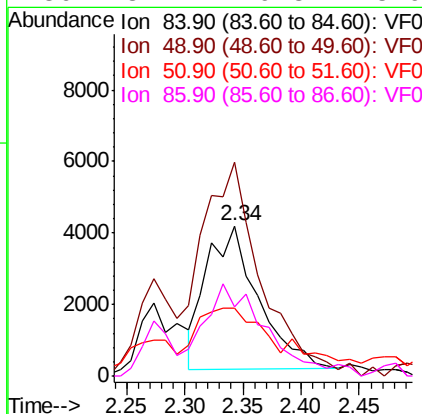
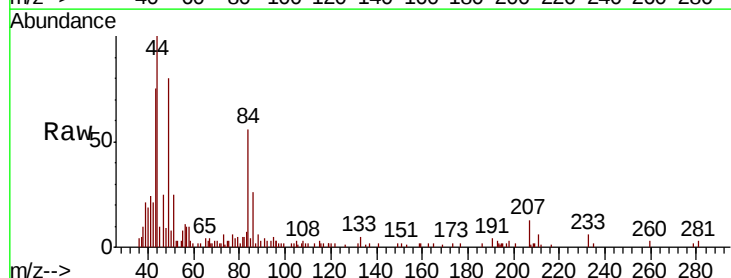
Instrument :
MSVOA_F
ClientSampleId :
SU-04-050219-B

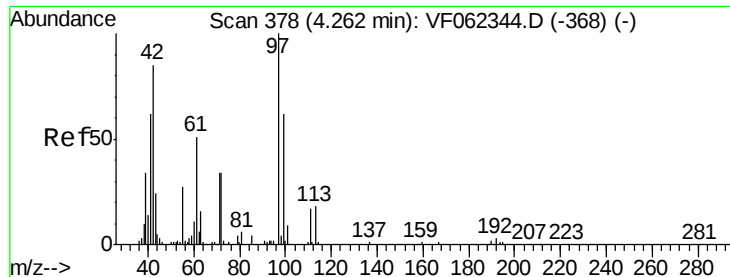
Tgt Ion: 43 Resp: 2574
Ion Ratio Lower Upper
43 100
74 17.5 15.0 22.4



#20
Methylene Chloride
Concen: 4.647 ug/l
RT: 2.34 min Scan# 184
Delta R.T. 0.00 min
Lab File: VF062363.D
Acq: 7 May 2019 17:53

Tgt Ion: 84 Resp: 12336
Ion Ratio Lower Upper
84 100
49 145.6 117.5 176.3
51 36.4 37.0 55.4#
86 37.1 49.3 73.9#





#29

Tetrahydrofuran

Concen: 2.821 ug/l

RT: 4.27 min Scan# 379

Delta R.T. 0.00 min

Lab File: VF062363.D

Acq: 7 May 2019 17:53

Instrument :

MSVOA_F

ClientSampleId :

SU-04-050219-B

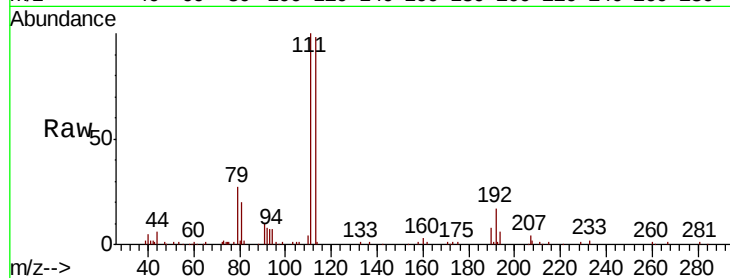
Tgt Ion: 42 Resp: 1195

Ion Ratio Lower Upper

42 100

72 13.9 31.4 47.0#

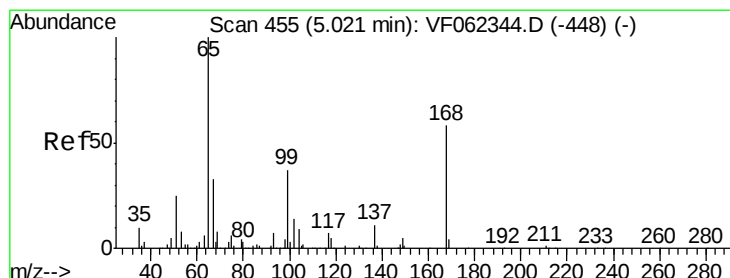
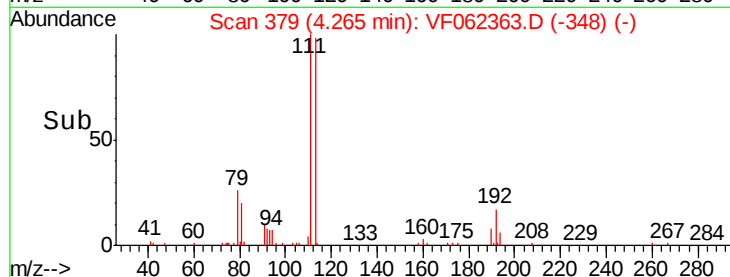
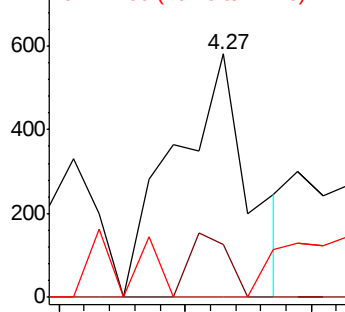
71 0.0 31.7 47.5#



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 42.079 ug/l

RT: 5.01 min Scan# 455

Delta R.T. -0.01 min

Lab File: VF062363.D

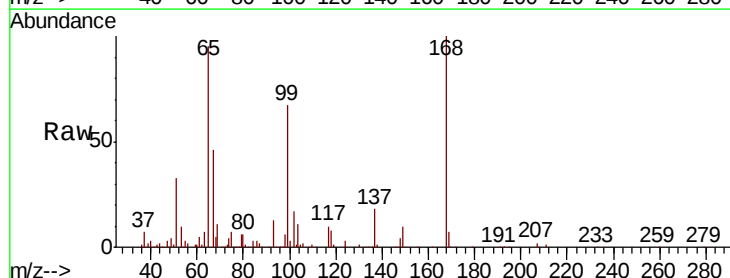
Acq: 7 May 2019 17:53

Tgt Ion: 65 Resp: 152621

Ion Ratio Lower Upper

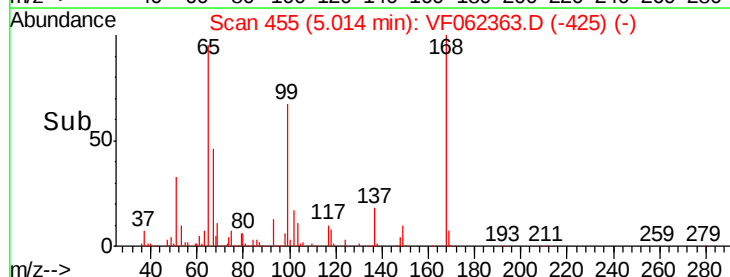
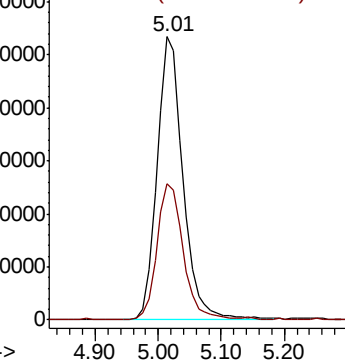
65 100

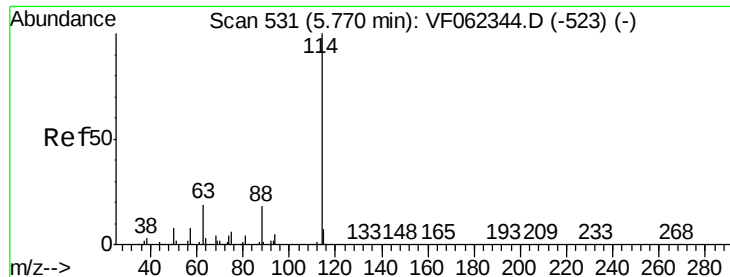
67 48.5 0.0 85.8



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.76 min Scan# 531

Delta R.T. -0.01 min

Lab File: VF062363.D

Acq: 7 May 2019 17:53

Instrument :

MSVOA_F

ClientSampleId :

SU-04-050219-B

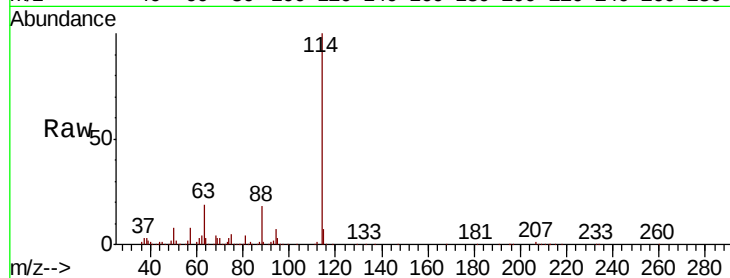
Tgt Ion:114 Resp: 511619

Ion Ratio Lower Upper

114 100

63 19.0 0.0 37.4

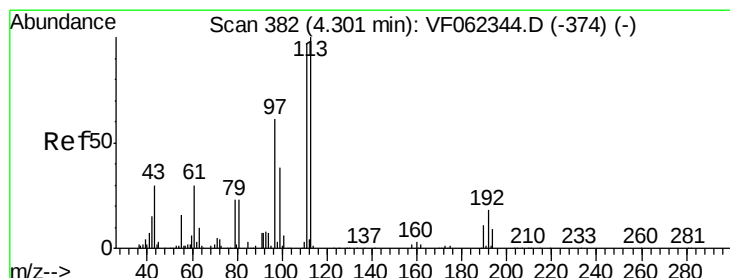
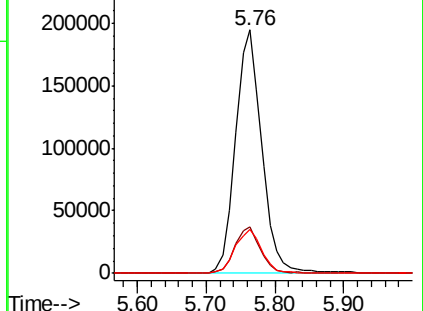
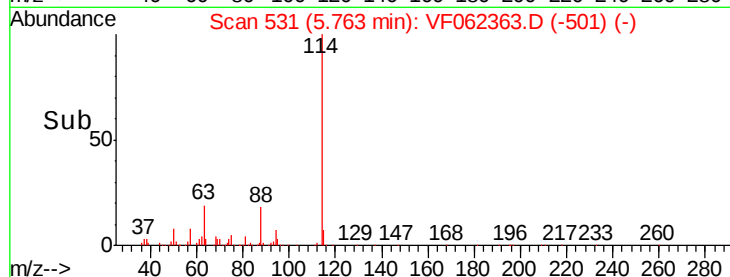
88 17.8 0.0 36.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0



#35

Dibromofluoromethane

Concen: 46.516 ug/l

RT: 4.29 min Scan# 382

Delta R.T. -0.01 min

Lab File: VF062363.D

Acq: 7 May 2019 17:53

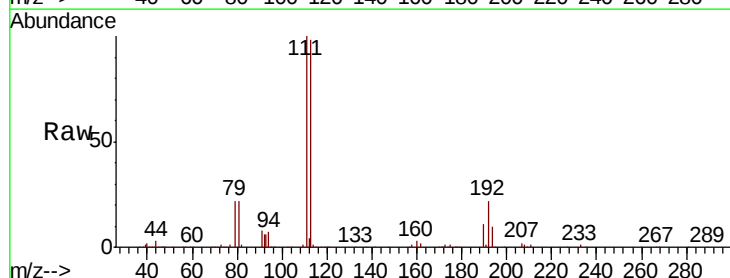
Tgt Ion:113 Resp: 189600

Ion Ratio Lower Upper

113 100

111 100.5 79.4 119.0

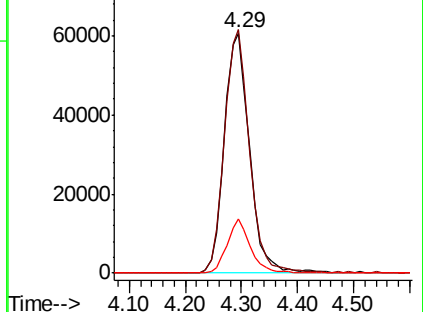
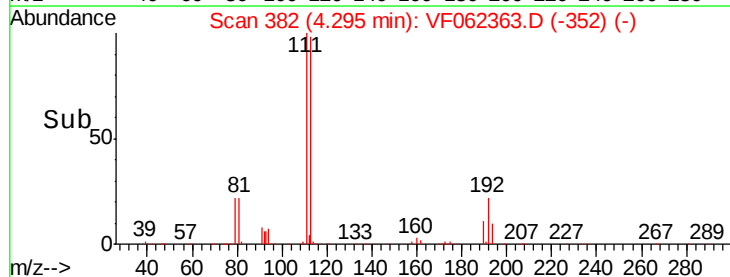
192 20.9 16.0 24.0

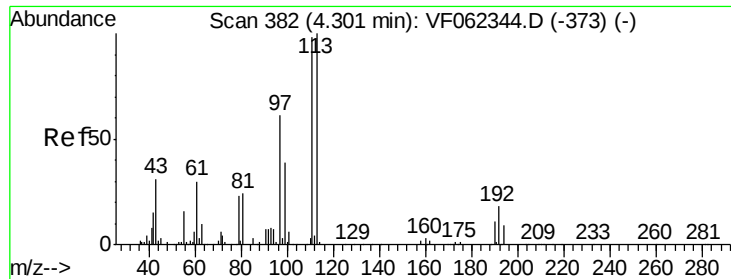


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

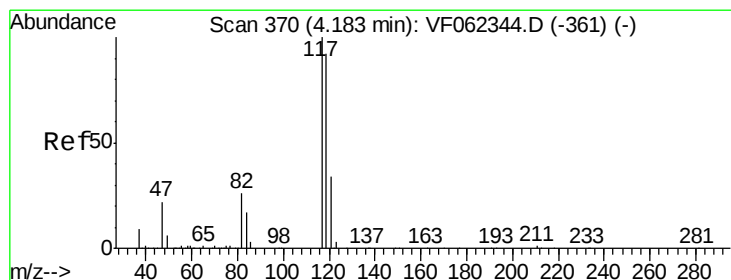
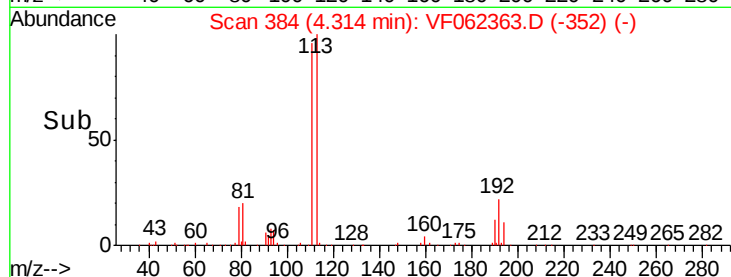
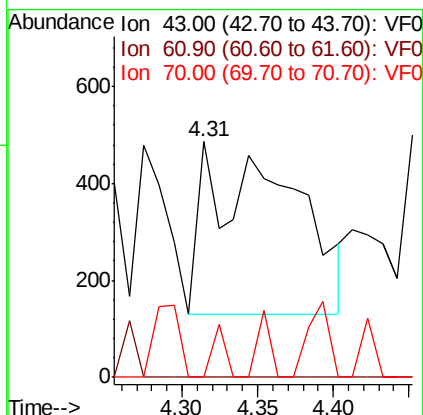
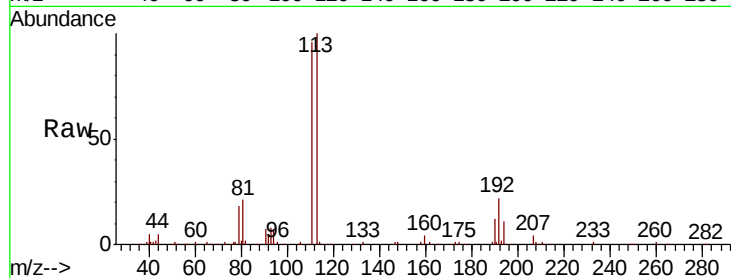




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.31 min Scan# 384
Delta R.T. 0.01 min
Lab File: VF062363.D
Acq: 7 May 2019 17:53

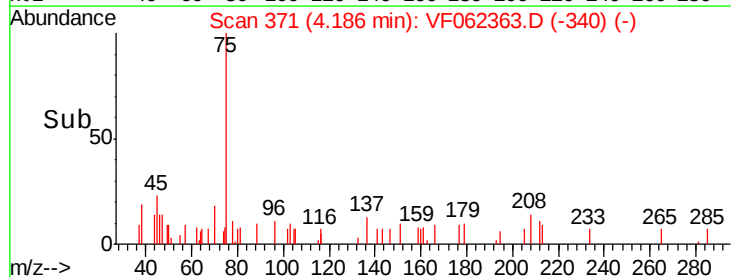
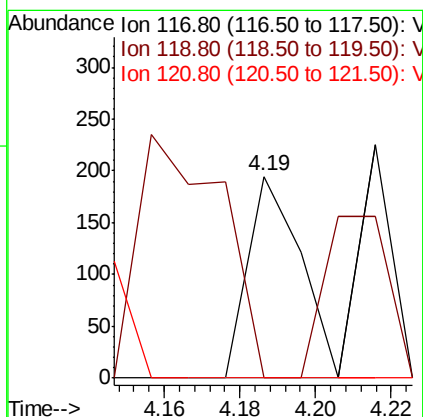
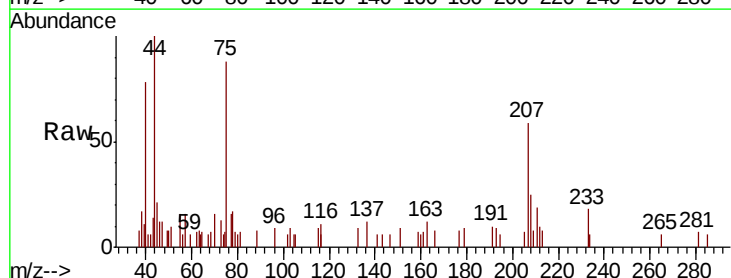
Instrument :
MSVOA_F
ClientSampleId :
SU-04-050219-B

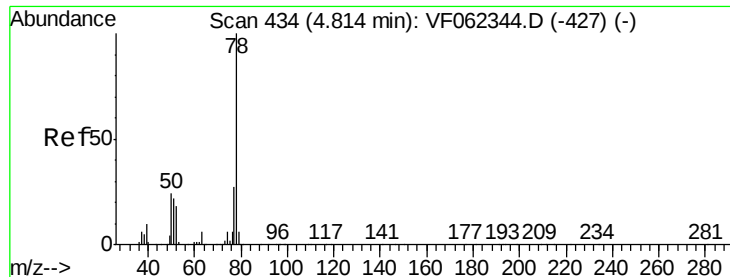
Tgt Ion: 43 Resp: 1400
Ion Ratio Lower Upper
43 100
61 0.0 0.0 0.0
70 4.6 8.2 12.2#



#38
Carbon Tetrachloride
Concen: Below Cal
RT: 4.19 min Scan# 371
Delta R.T. 0.00 min
Lab File: VF062363.D
Acq: 7 May 2019 17:53

Tgt Ion: 117 Resp: 187
Ion Ratio Lower Upper
117 100
119 0.0 73.4 110.2#
121 0.0 27.4 41.0#





#40

Benzene

Concen: 1.061 ug/l

RT: 4.80 min Scan# 433

Delta R.T. -0.02 min

Lab File: VF062363.D

Acq: 7 May 2019 17:53

Instrument :

MSVOA_F

ClientSampleId :

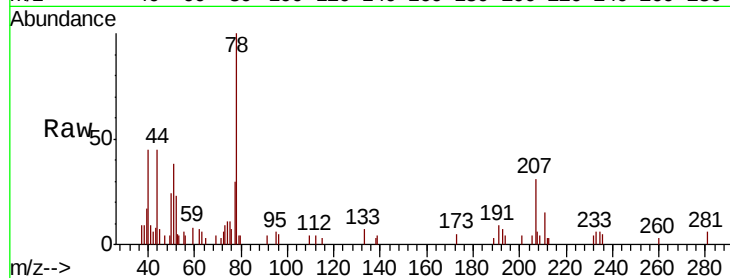
SU-04-050219-B

Tgt Ion: 78 Resp: 10268

Ion Ratio Lower Upper

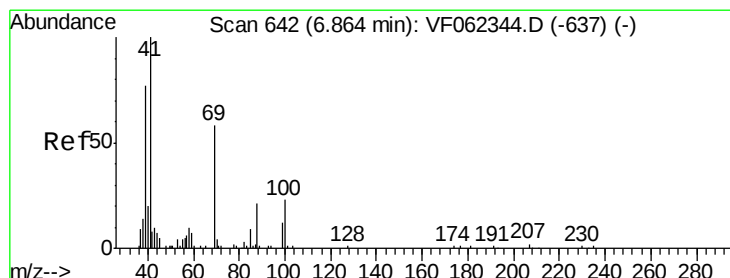
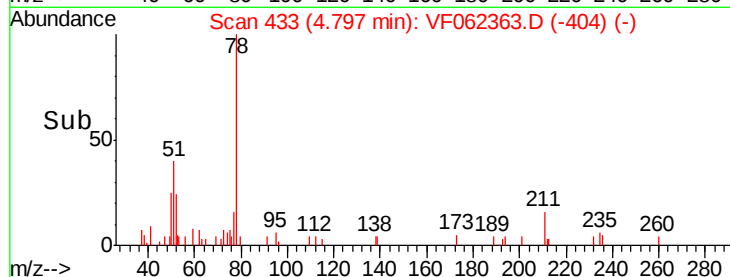
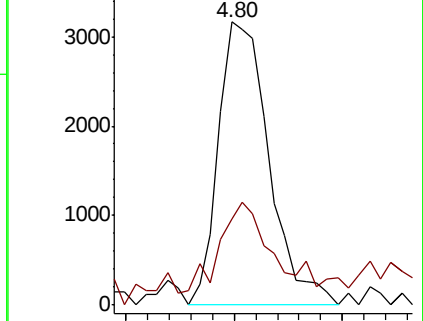
78 100

77 25.3 21.6 32.4



Abundance Ion 78.00 (77.70 to 78.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#49

1,4-Dioxane

Concen: 2.241 ug/l

RT: 6.89 min Scan# 645

Delta R.T. 0.02 min

Lab File: VF062363.D

Acq: 7 May 2019 17:53

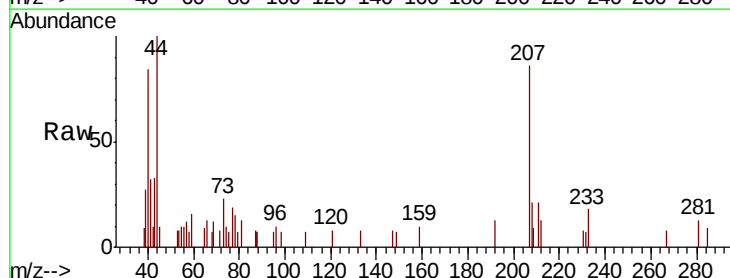
Tgt Ion: 88 Resp: 222

Ion Ratio Lower Upper

88 100

43 526.6 55.6 83.4#

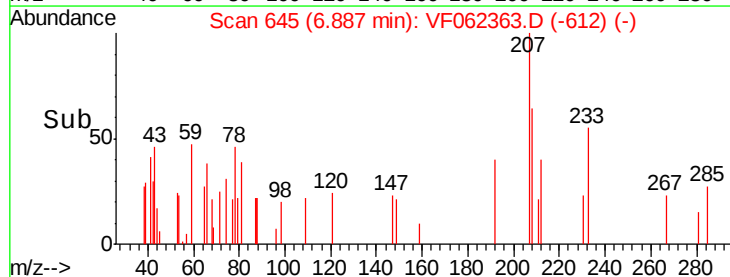
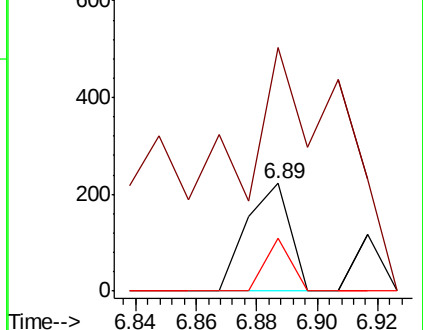
58 28.8 52.8 79.2#

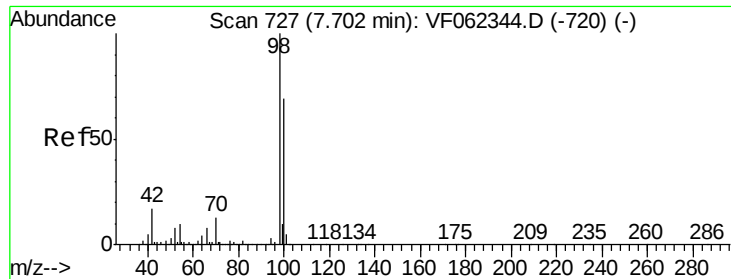


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

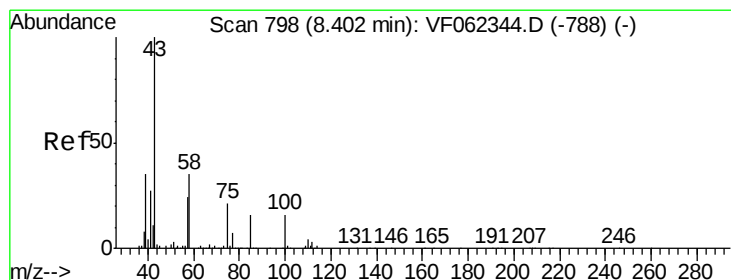
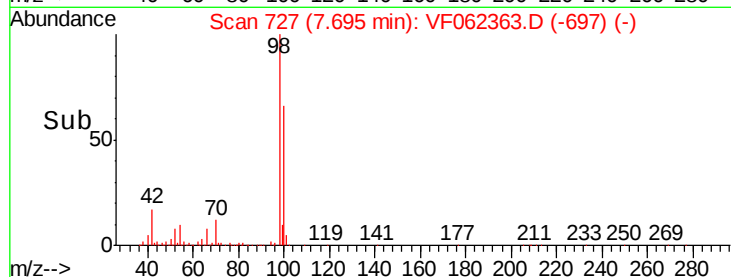
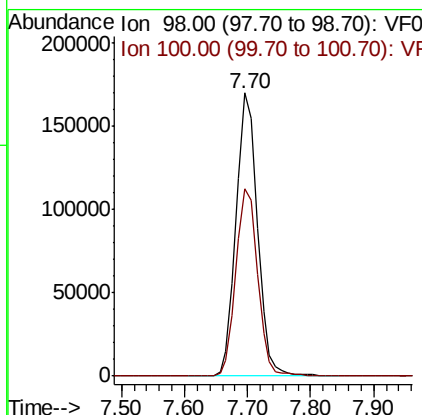
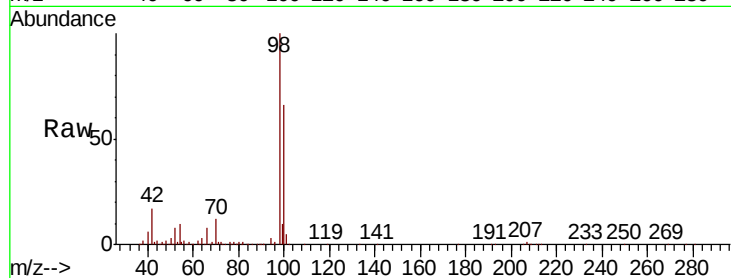




#50
Toluene-d8
Concen: 40.440 ug/l
RT: 7.70 min Scan# 727
Delta R.T. -0.01 min
Lab File: VF062363.D
Acq: 7 May 2019 17:53

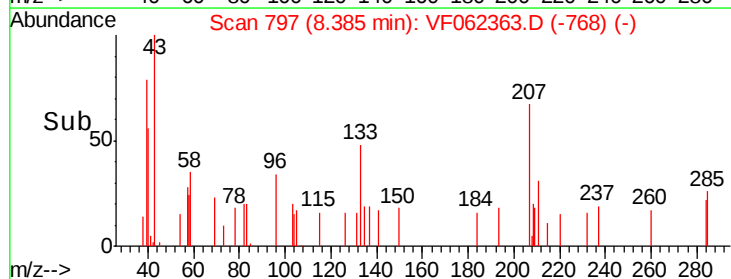
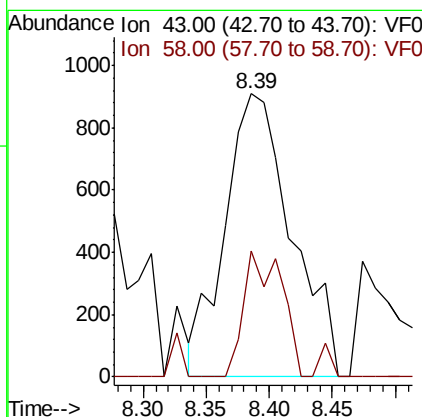
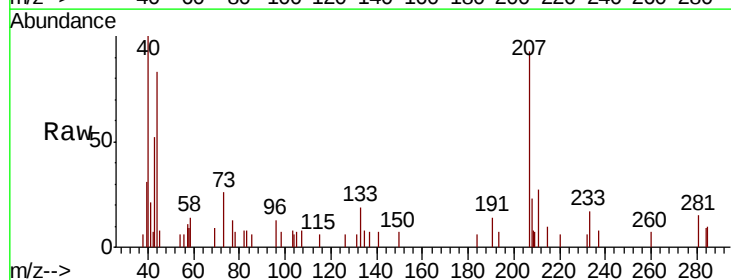
Instrument :
MSVOA_F
ClientSampleId :
SU-04-050219-B

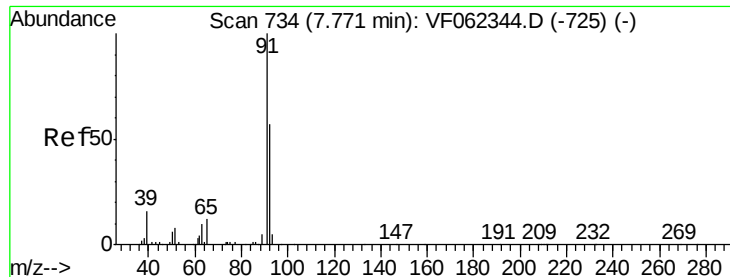
Tgt Ion: 98 Resp: 399000
Ion Ratio Lower Upper
98 100
100 67.4 53.3 79.9



#51
4-Methyl-2-Pentanone
Concen: 2.219 ug/l
RT: 8.39 min Scan# 797
Delta R.T. -0.02 min
Lab File: VF062363.D
Acq: 7 May 2019 17:53

Tgt Ion: 43 Resp: 3361
Ion Ratio Lower Upper
43 100
58 25.1 27.8 41.6#





#52

Toluene

Concen: 8.857 ug/l

RT: 7.76 min Scan# 734

Delta R.T. -0.01 min

Lab File: VF062363.D

Acq: 7 May 2019 17:53

Instrument :

MSVOA_F

ClientSampleId :

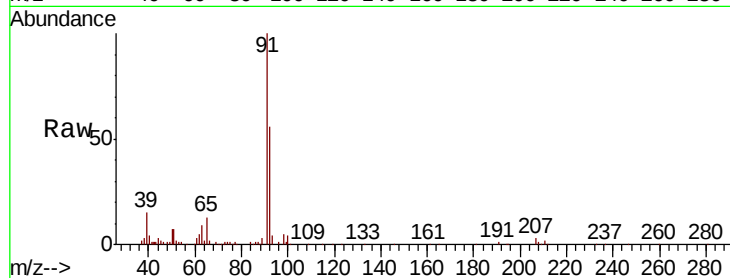
SU-04-050219-B

Tgt Ion: 92 Resp: 52883

Ion Ratio Lower Upper

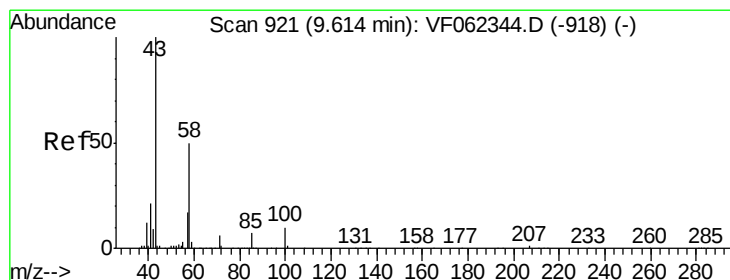
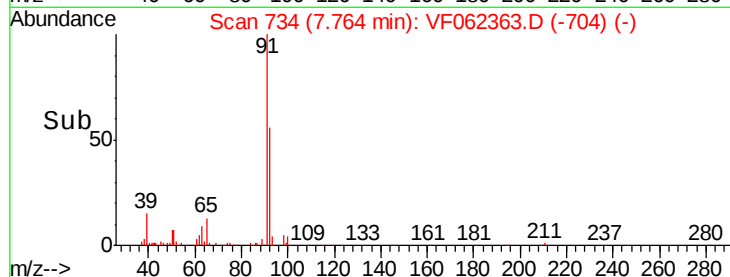
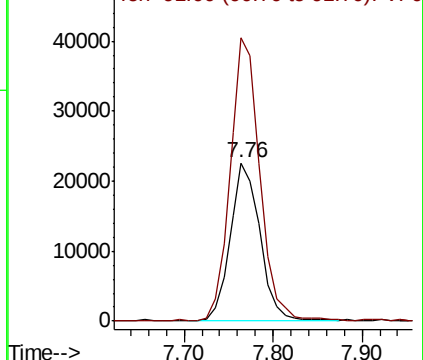
92 100

91 178.0 138.7 208.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#59

2-Hexanone

Concen: 1.641 ug/l

RT: 9.63 min Scan# 923

Delta R.T. 0.01 min

Lab File: VF062363.D

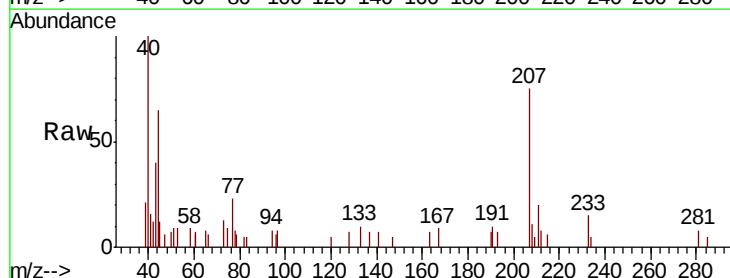
Acq: 7 May 2019 17:53

Tgt Ion: 43 Resp: 1719

Ion Ratio Lower Upper

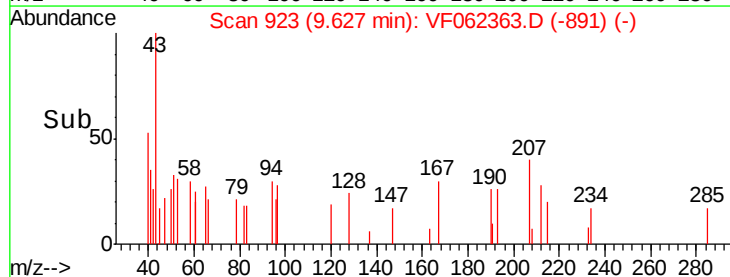
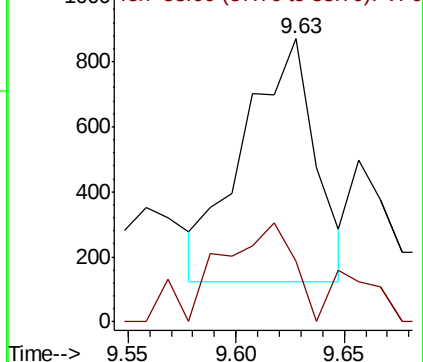
43 100

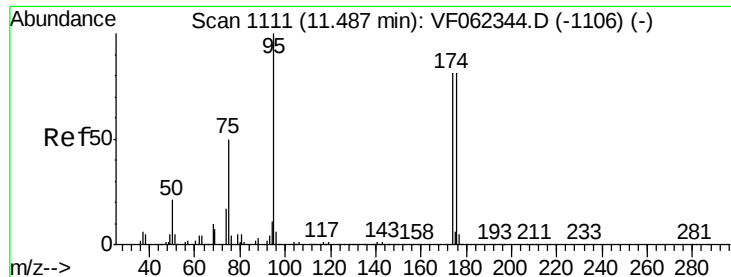
58 43.6 24.3 73.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 42.103 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VF062363.D

Acq: 7 May 2019 17:53

Instrument :

MSVOA_F

ClientSampleId :

SU-04-050219-B

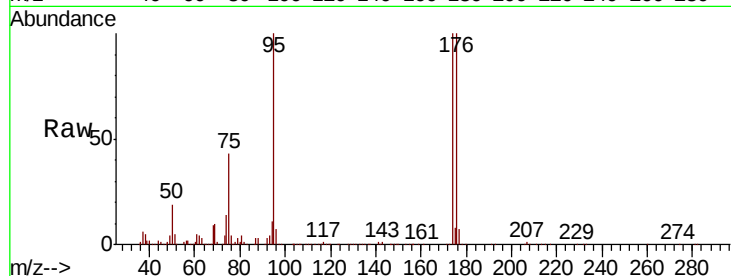
Tgt Ion: 95 Resp: 187420

Ion Ratio Lower Upper

95 100

174 95.2 0.0 191.8

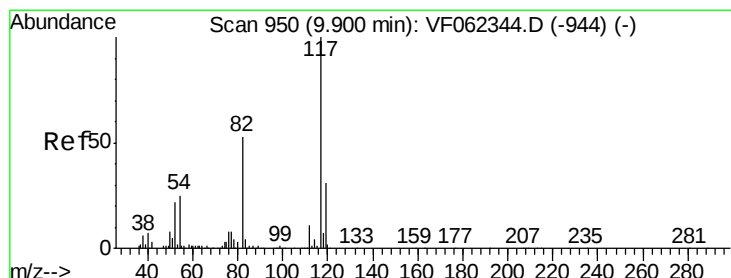
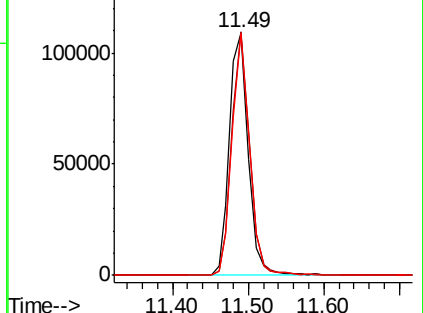
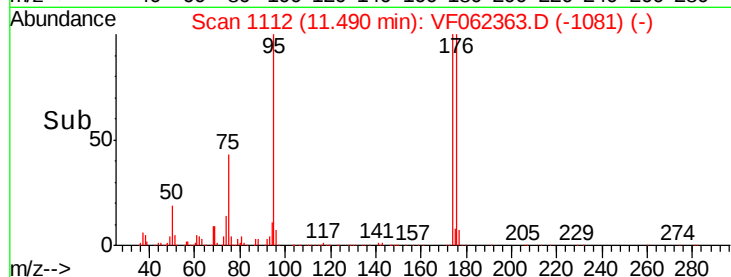
176 93.0 0.0 193.2



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.90 min Scan# 951

Delta R.T. 0.00 min

Lab File: VF062363.D

Acq: 7 May 2019 17:53

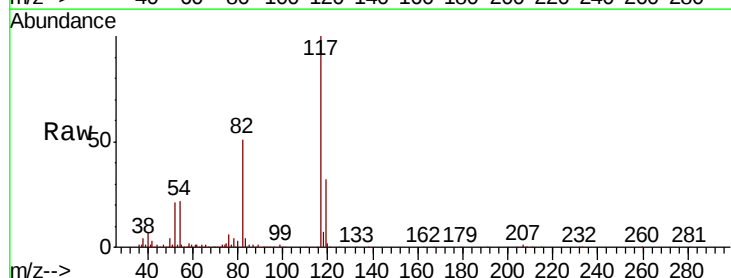
Tgt Ion: 117 Resp: 416323

Ion Ratio Lower Upper

117 100

82 50.6 42.2 63.2

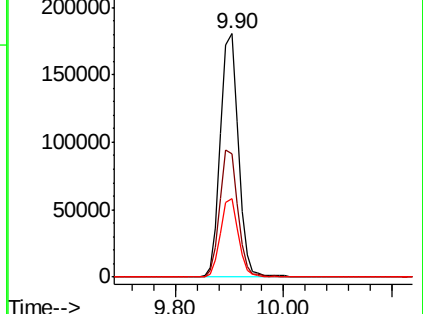
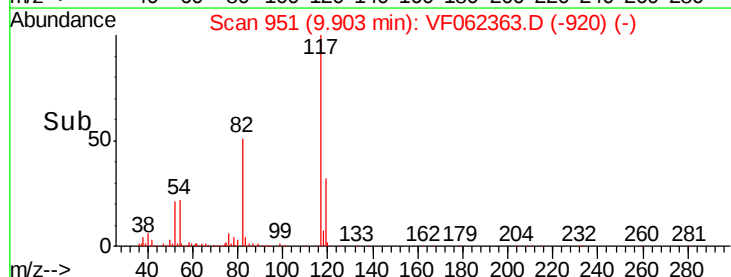
119 32.4 25.0 37.4

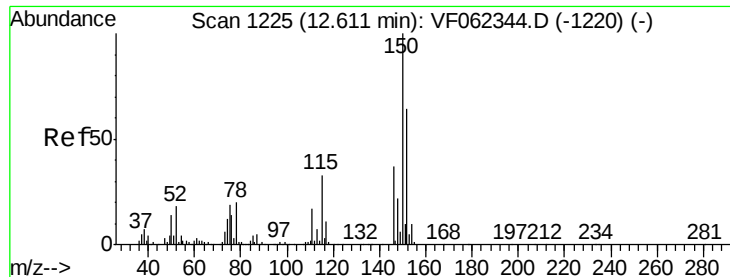


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.60 min Scan# 1225

Delta R.T. -0.01 min

Lab File: VF062363.D

Acq: 7 May 2019 17:53

Instrument :

MSVOA_F

ClientSampleId :

SU-04-050219-B

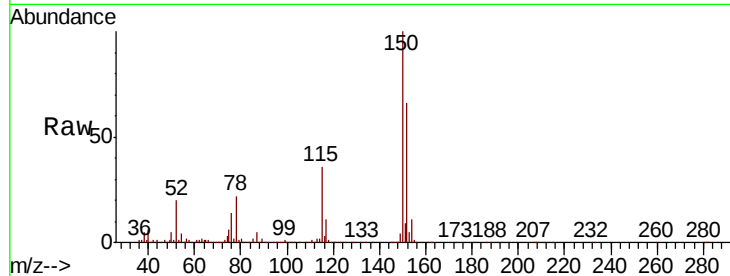
Tgt Ion: 152 Resp: 256966

Ion Ratio Lower Upper

152 100

115 54.7 26.4 79.2

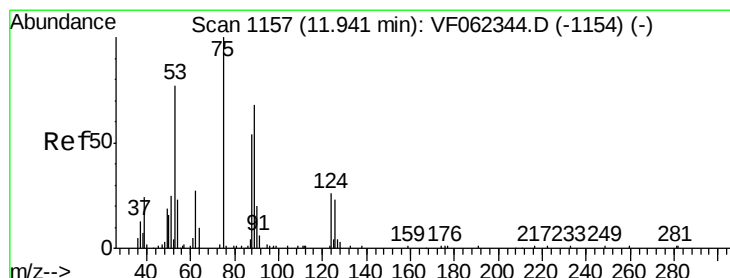
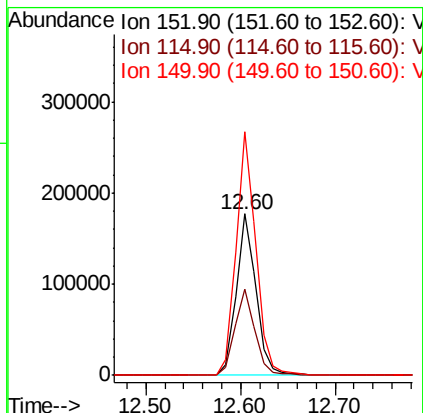
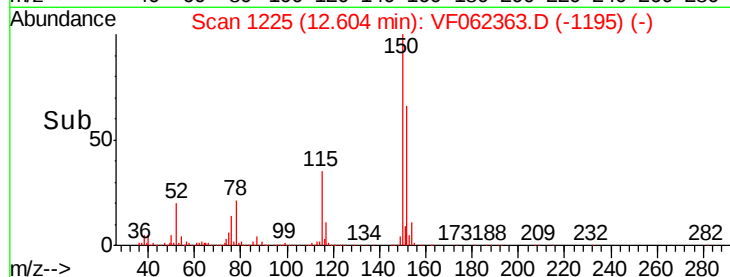
150 151.3 0.0 335.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 1.250 ug/l

RT: 11.95 min Scan# 1159

Delta R.T. 0.01 min

Lab File: VF062363.D

Acq: 7 May 2019 17:53

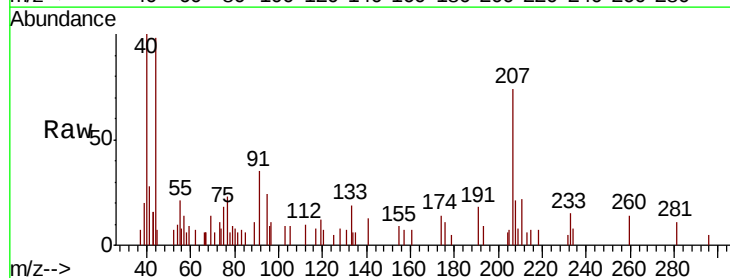
Tgt Ion: 75 Resp: 855

Ion Ratio Lower Upper

75 100

53 0.0 71.9 107.9#

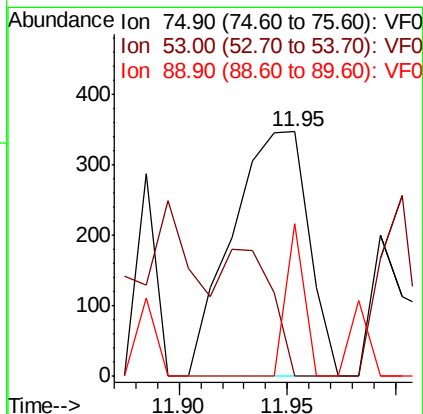
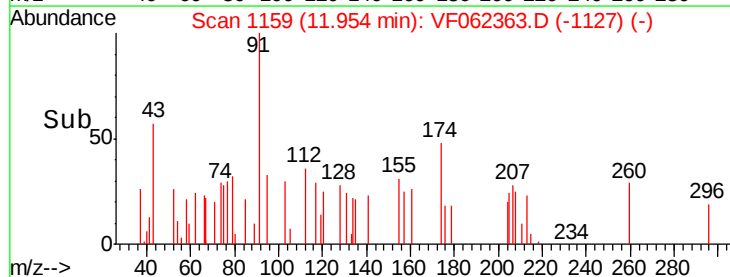
89 15.0 0.0 0.0#

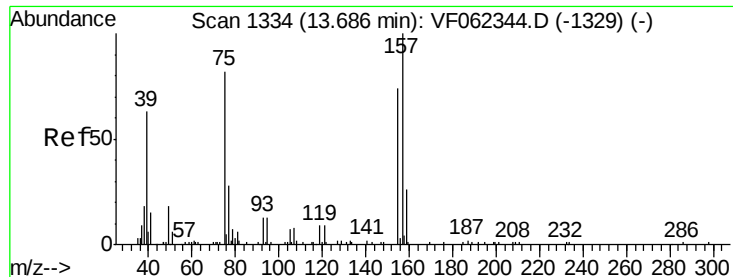


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.045 ug/l

RT: 13.67 min Scan# 1333

Delta R.T. -0.02 min

Lab File: VF062363.D

Acq: 7 May 2019 17:53

Instrument :

MSVOA_F

ClientSampleId :

SU-04-050219-B

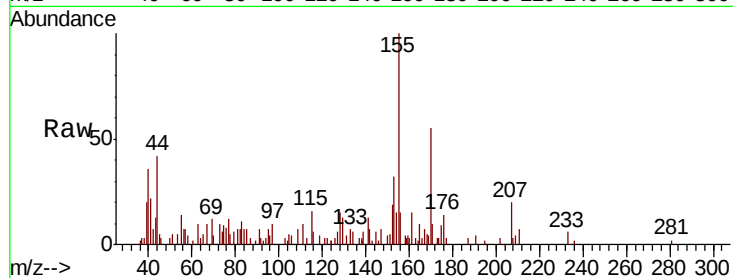
Tgt Ion: 75 Resp: 1093

Ion Ratio Lower Upper

75 100

155 1187.6 51.8 155.4#

157 0.0 67.3 201.8#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

