

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF050919\
 Data File : VF062406.D
 Acq On : 9 May 2019 20:06
 Operator : FY/SY
 Sample : K2643-01
 Misc : 9.88g/5mL/MSVOA_F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 OR-03-050719-A

Quant Time: May 10 01:55:02 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	5.04	168	281668	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	243334	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	24661	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	118693	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	197161	74.07	ug/l	0.00
Spiked Amount 50.000			Recovery =	148.14%		
35) Dibromofluoromethane	4.28	113	214933	110.87	ug/l	-0.02
Spiked Amount 50.000			Recovery =	221.74%		
50) Toluene-d8	7.70	98	2723	0.58	ug/l	0.00
Spiked Amount 50.000			Recovery =	1.16%		
62) 4-Bromofluorobenzene	11.49	95	118903	56.16	ug/l	0.00
Spiked Amount 50.000			Recovery =	112.32%		

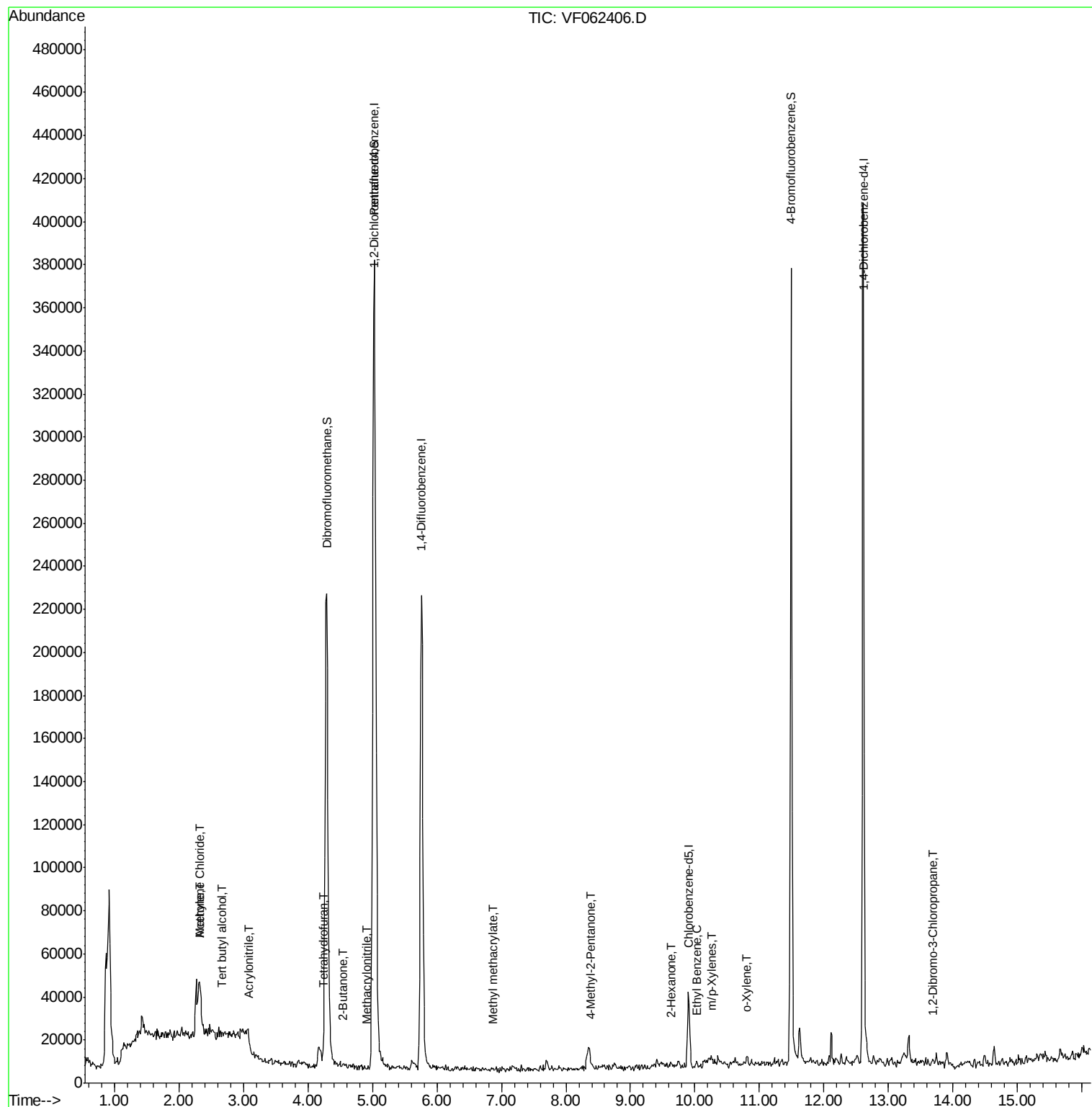
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.43	94	452	Below Cal	#	3
11) Tert butyl alcohol	2.67	59	964	6.408	ug/l #	1
13) Acrolein	2.09	56	205	Below Cal	#	1
15) Acrylonitrile	3.10	53	440	1.544	ug/l #	2
16) Acetone	2.32	43	4160	7.725	ug/l #	83
18) Methyl Acetate	2.45	43	1112	Below Cal	#	63
20) Methylene Chloride	2.31	84	15234	7.819	ug/l #	91
25) 2-Butanone	4.53	43	779	1.152	ug/l #	69
29) Tetrahydrofuran	4.23	42	527	1.695	ug/l #	71
37) Ethyl Acetate	4.31	43	914	Below Cal	#	73
38) Carbon Tetrachloride	4.19	117	73	Below Cal	#	14
41) Methacrylonitrile	4.91	41	685	1.367	ug/l #	25
48) Methyl methacrylate	6.86	41	834	1.241	ug/l #	80
49) 1,4-Dioxane	6.91	88	66	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.40	43	1006	1.396	ug/l #	80
59) 2-Hexanone	9.61	43	1836	3.685	ug/l	74
67) Ethyl Benzene	10.02	91	2027	2.837	ug/l #	71
68) m/p-Xylenes	10.26	106	942	3.573	ug/l	74
69) o-Xylene	10.82	106	1139	3.998	ug/l	86
92) 1,2-Dibromo-3-Chloropropan	13.71	75	323	1.309	ug/l #	44

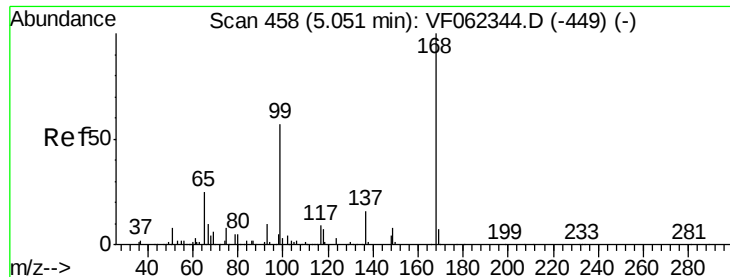
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 457

Delta R.T. -0.01 min

Lab File: VF062406.D

Acq: 9 May 2019 20:06

Instrument :

MSVOA_F

ClientSampleId :

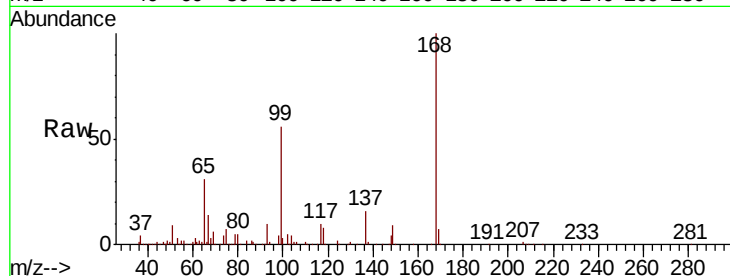
OR-03-050719-A

Tgt Ion:168 Resp: 281668

Ion Ratio Lower Upper

168 100

99 55.6 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.04

100000

80000

60000

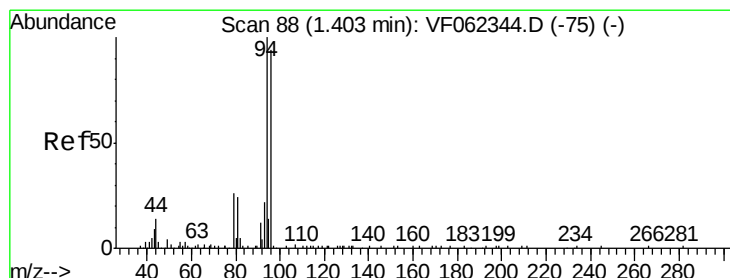
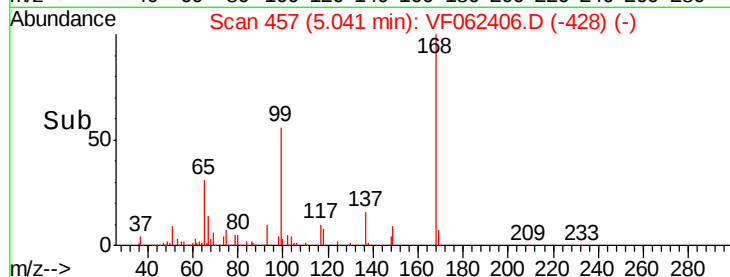
40000

20000

0

5.00 5.20

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.43 min Scan# 91

Delta R.T. 0.03 min

Lab File: VF062406.D

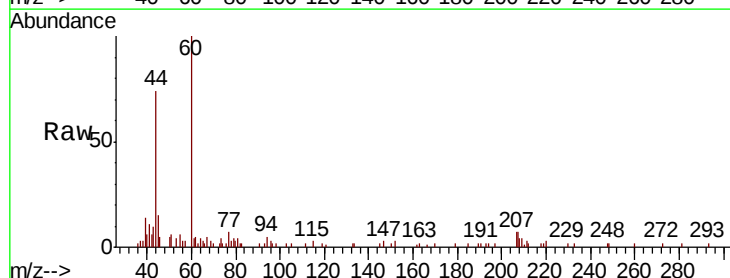
Acq: 9 May 2019 20:06

Tgt Ion: 94 Resp: 452

Ion Ratio Lower Upper

94 100

96 0.0 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.43

400

300

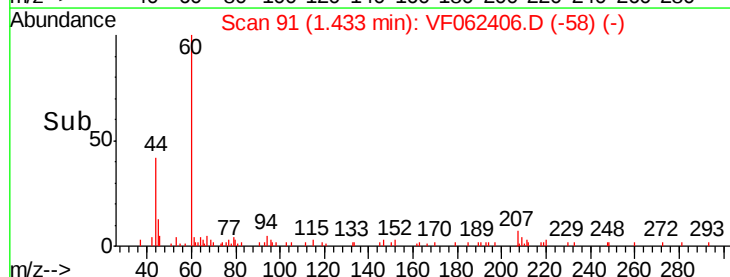
200

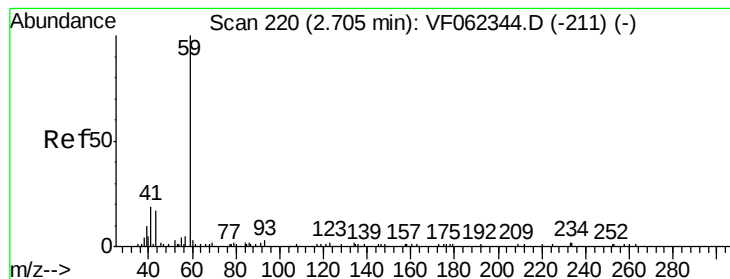
100

0

1.40 1.42 1.44 1.46

Time-->





#11

Tert butyl alcohol

Concen: 6.408 ug/l

RT: 2.67 min Scan# 216

Delta R.T. -0.04 min

Lab File: VF062406.D

Acq: 9 May 2019 20:06

Instrument :

MSVOA_F

ClientSampleId :

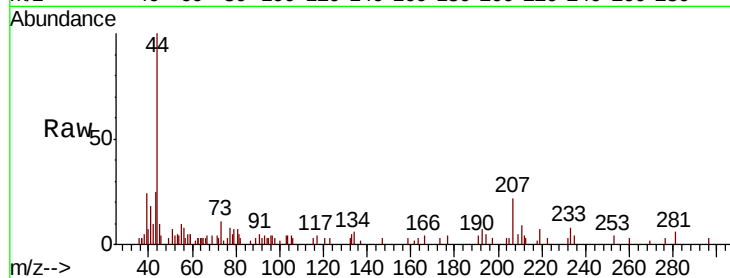
OR-03-050719-A

Tgt Ion: 59 Resp: 964

Ion Ratio Lower Upper

59 100

57 57.3 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.67

400

300

200

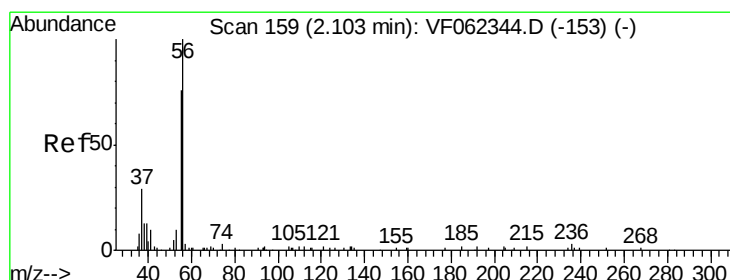
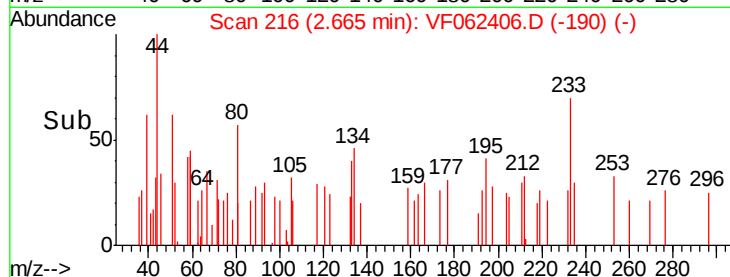
100

0

2.65

2.70

Time-->



#13

Acrolein

Concen: Below Cal

RT: 2.09 min Scan# 158

Delta R.T. -0.01 min

Lab File: VF062406.D

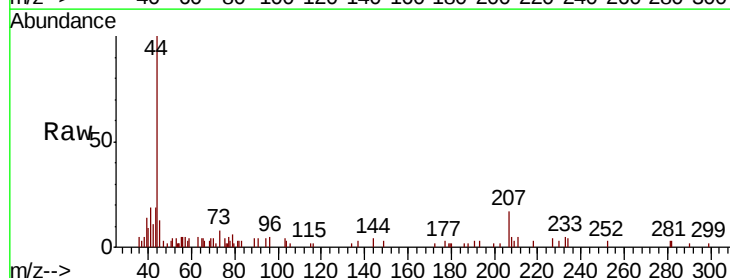
Acq: 9 May 2019 20:06

Tgt Ion: 56 Resp: 205

Ion Ratio Lower Upper

56 100

55 331.2 58.4 87.6#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

2.09

600

400

200

0

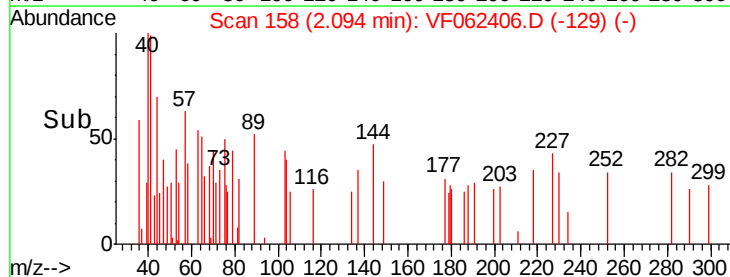
2.06

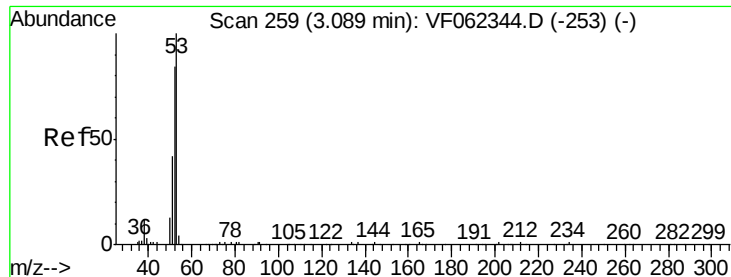
2.08

2.10

2.12

Time-->





#15

Acrylonitrile

Concen: 1.544 ug/l

RT: 3.10 min Scan# 260

Delta R.T. 0.01 min

Lab File: VF062406.D

Acq: 9 May 2019 20:06

Instrument :

MSVOA_F

ClientSampleId :

OR-03-050719-A

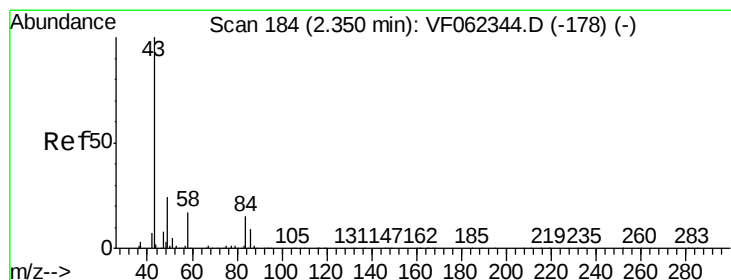
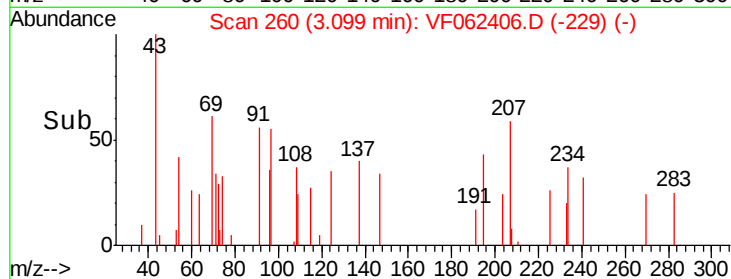
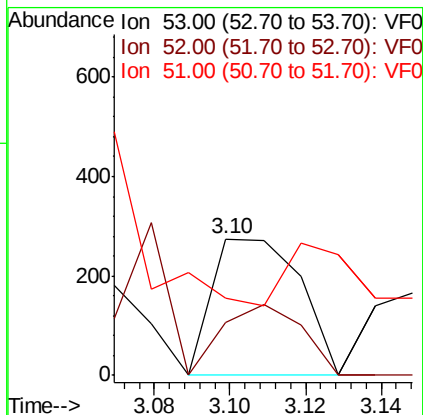
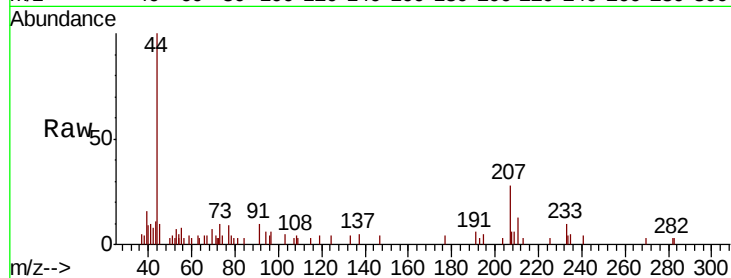
Tgt Ion: 53 Resp: 440

Ion Ratio Lower Upper

53 100

52 32.7 77.2 115.8#

51 161.6 40.6 61.0#



#16

Acetone

Concen: 7.725 ug/l

RT: 2.32 min Scan# 181

Delta R.T. -0.03 min

Lab File: VF062406.D

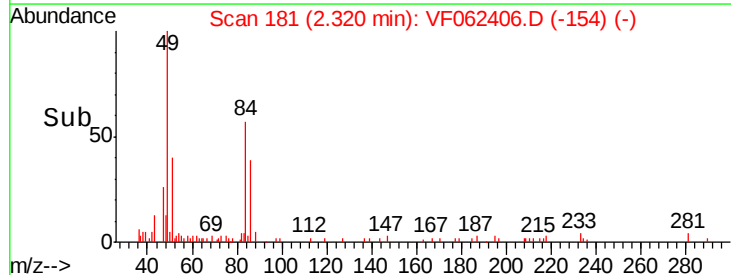
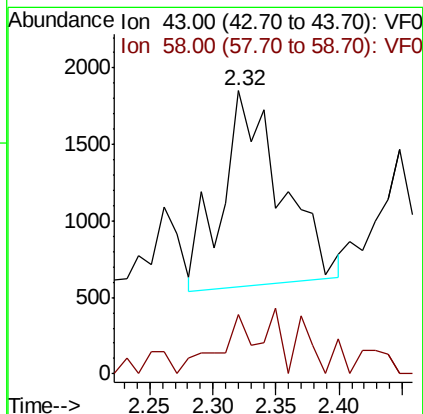
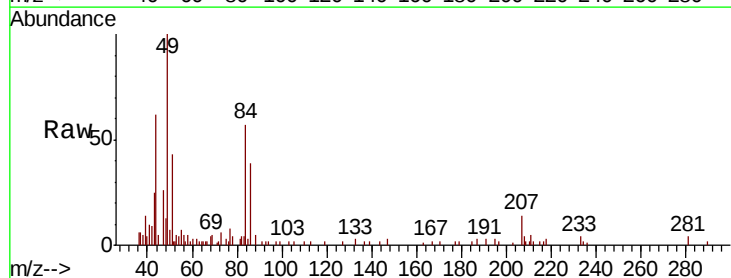
Acq: 9 May 2019 20:06

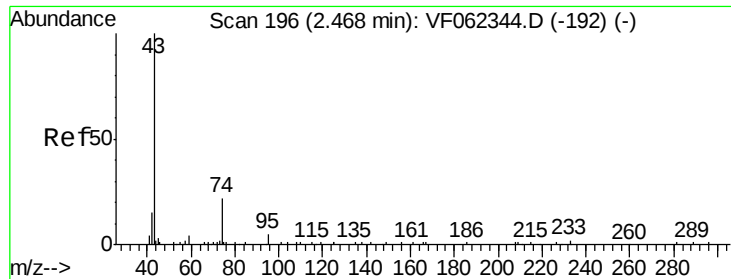
Tgt Ion: 43 Resp: 4160

Ion Ratio Lower Upper

43 100

58 23.5 13.1 19.7#

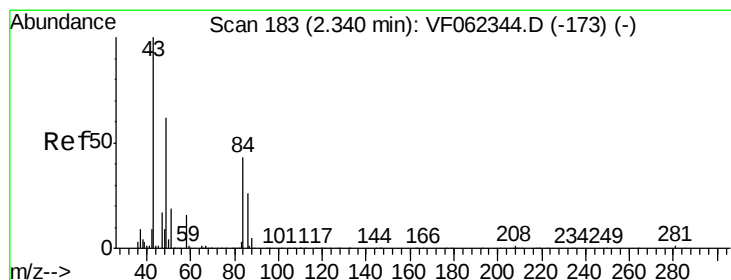
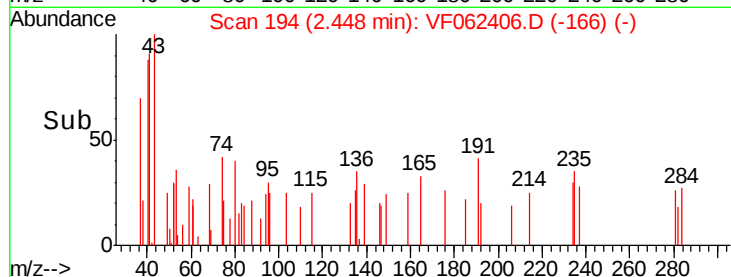
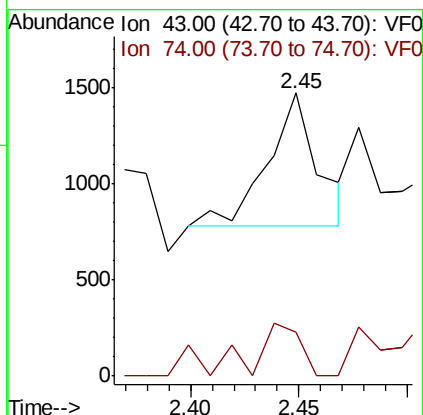
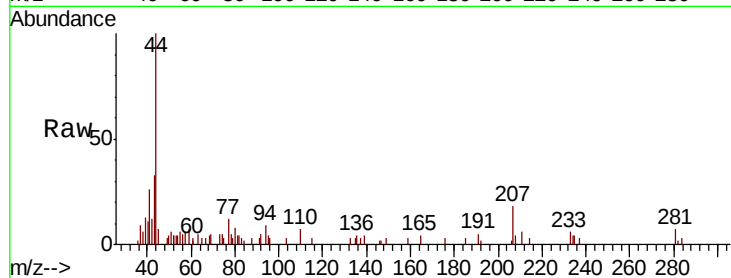




#18
Methyl Acetate
Concen: Below Cal
RT: 2.45 min Scan# 194
Delta R.T. -0.02 min
Lab File: VF062406.D
Acq: 9 May 2019 20:06

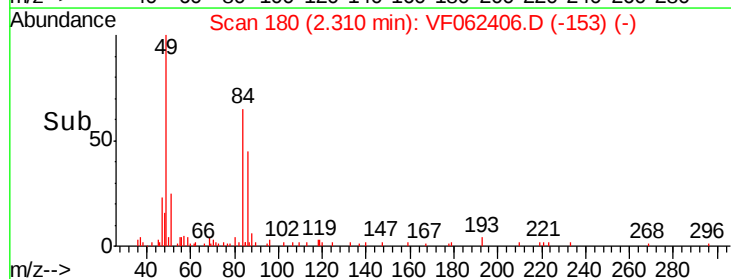
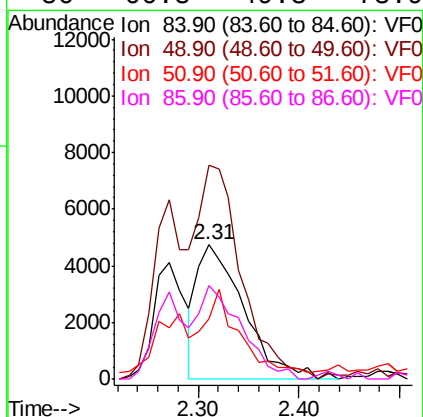
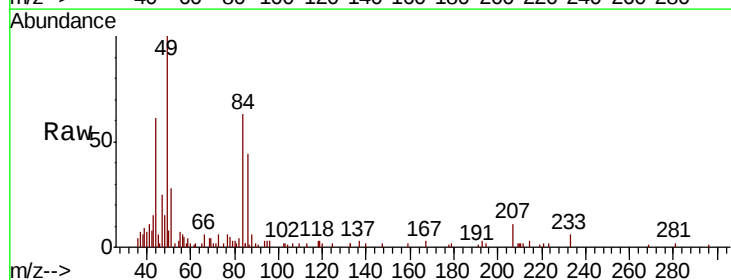
Instrument :
MSVOA_F
ClientSampleId :
OR-03-050719-A

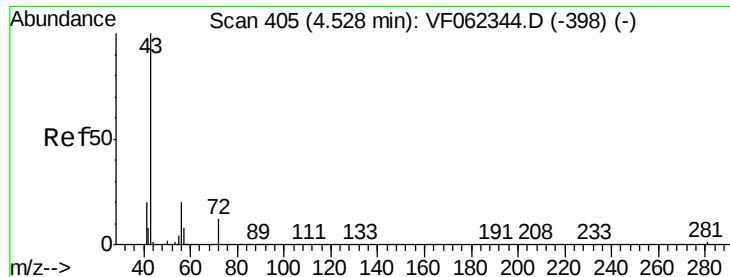
Tgt Ion: 43 Resp: 1112
Ion Ratio Lower Upper
43 100
74 35.1 15.0 22.4#



#20
Methylene Chloride
Concen: 7.819 ug/l
RT: 2.31 min Scan# 180
Delta R.T. -0.03 min
Lab File: VF062406.D
Acq: 9 May 2019 20:06

Tgt Ion: 84 Resp: 15234
Ion Ratio Lower Upper
84 100
49 156.7 117.5 176.3
51 35.1 37.0 55.4#
86 66.8 49.3 73.9





#25

2-Butanone

Concen: 1.152 ug/l

RT: 4.53 min Scan# 405

Delta R.T. 0.00 min

Lab File: VF062406.D

Acq: 9 May 2019 20:06

Instrument :

MSVOA_F

ClientSampleId :

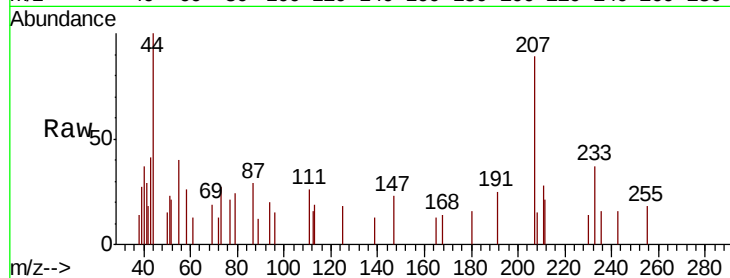
OR-03-050719-A

Tgt Ion: 43 Resp: 779

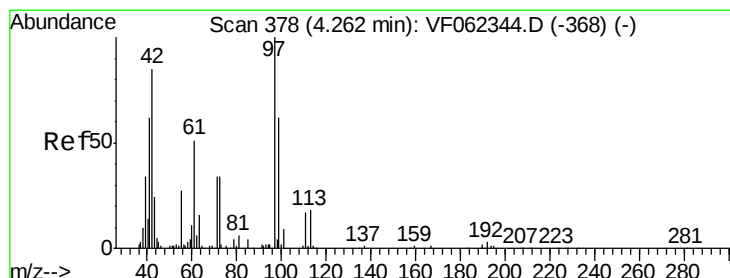
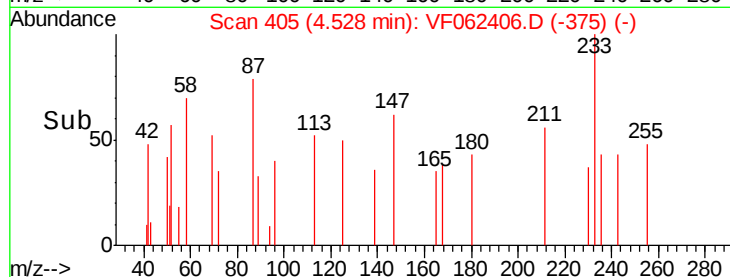
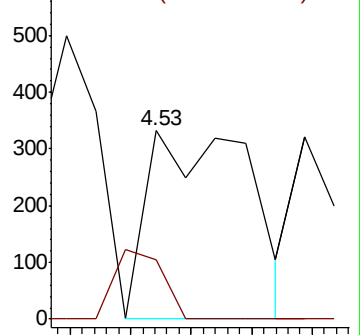
Ion Ratio Lower Upper

43 100

72 31.3 14.2 21.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0



#29

Tetrahydrofuran

Concen: 1.695 ug/l

RT: 4.23 min Scan# 375

Delta R.T. -0.03 min

Lab File: VF062406.D

Acq: 9 May 2019 20:06

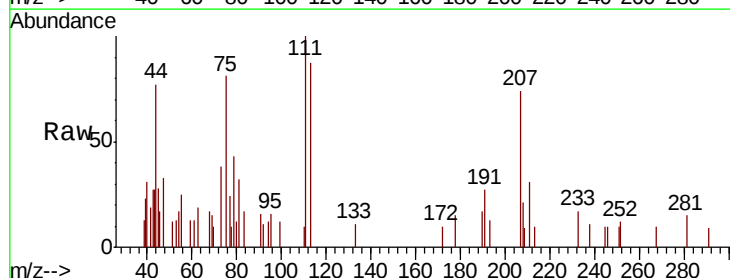
Tgt Ion: 42 Resp: 527

Ion Ratio Lower Upper

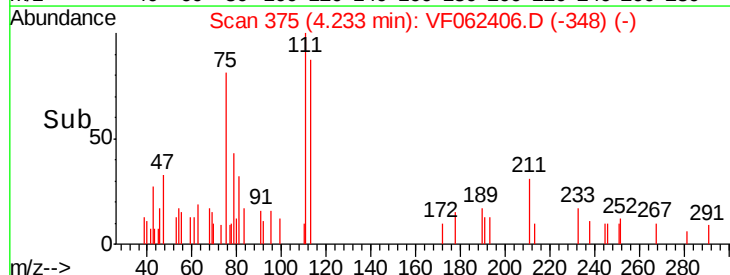
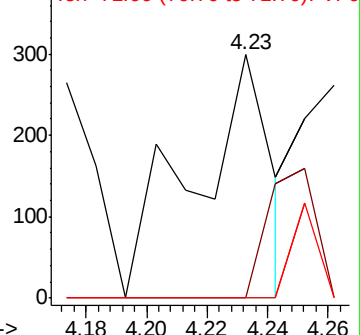
42 100

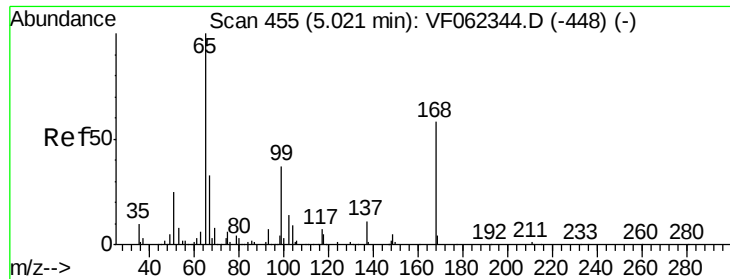
72 48.8 31.4 47.0#

71 13.1 31.7 47.5#



Abundance Ion 42.00 (41.70 to 42.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 74.068 ug/l

RT: 5.01 min Scan# 454

Delta R.T. -0.01 min

Lab File: VF062406.D

Acq: 9 May 2019 20:06

Instrument :

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ClientSampleId :

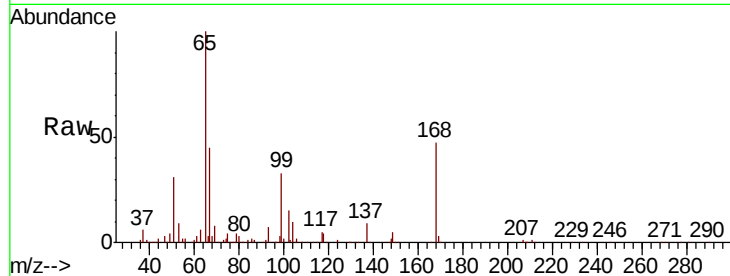
OR-03-050719-A

Tgt Ion: 65 Resp: 197161

Ion Ratio Lower Upper

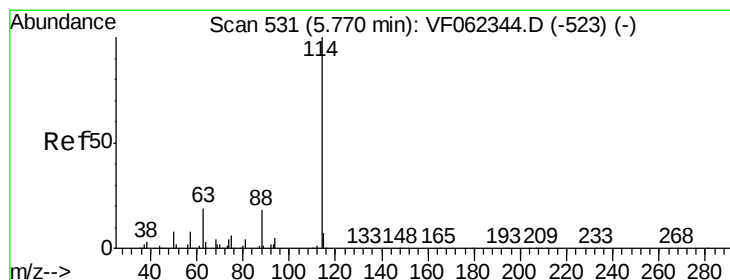
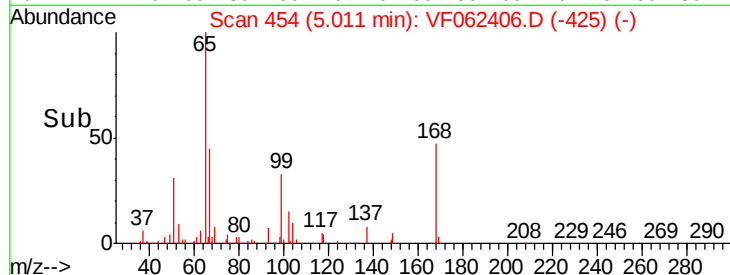
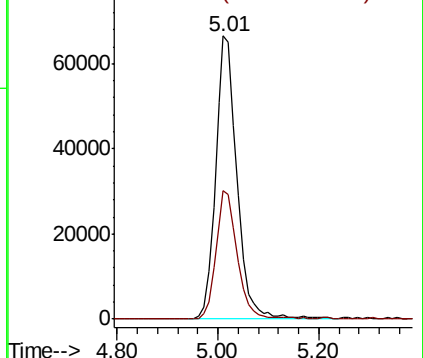
65 100

67 45.7 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# 530

Delta R.T. -0.01 min

Lab File: VF062406.D

Acq: 9 May 2019 20:06

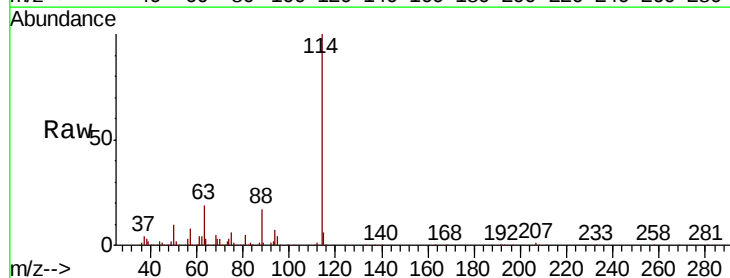
Tgt Ion: 114 Resp: 243334

Ion Ratio Lower Upper

114 100

63 19.2 0.0 37.4

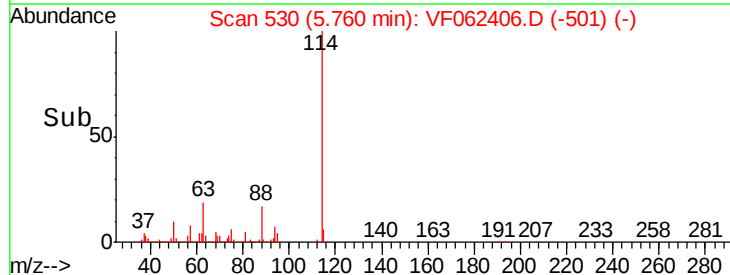
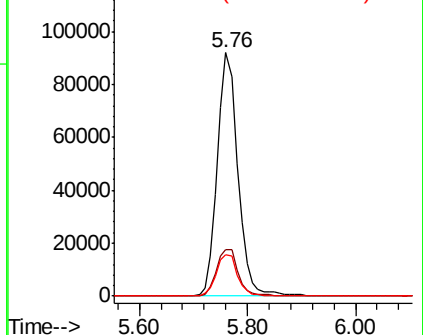
88 17.0 0.0 36.4

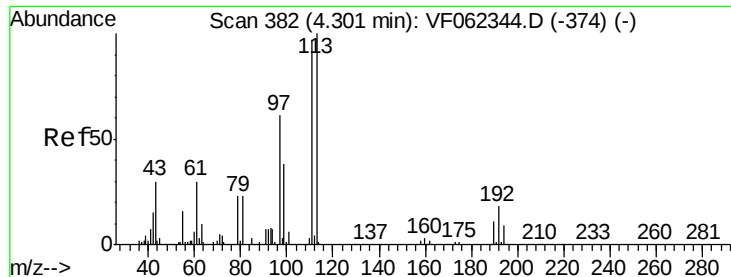


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0

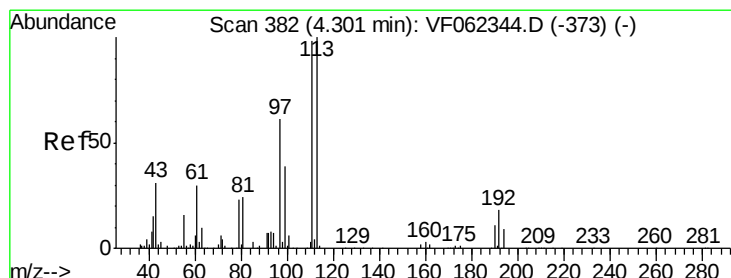
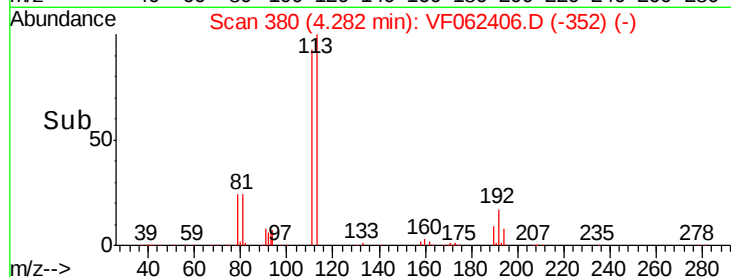
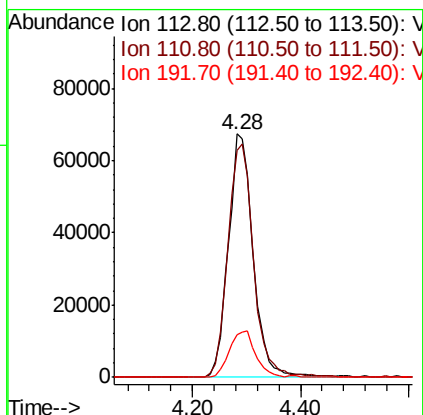
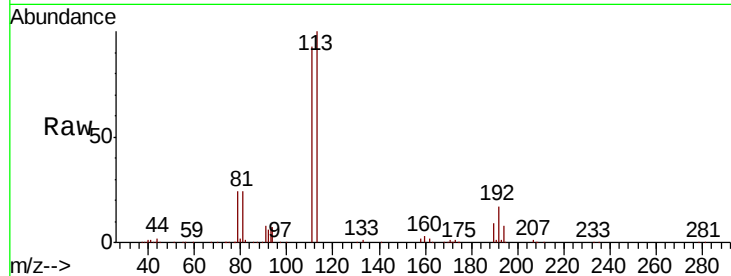




#35
 Dibromofluoromethane
 Concen: 110.870 ug/l
 RT: 4.28 min Scan# 380
 Delta R.T. -0.02 min
 Lab File: VF062406.D
 Acq: 9 May 2019 20:06

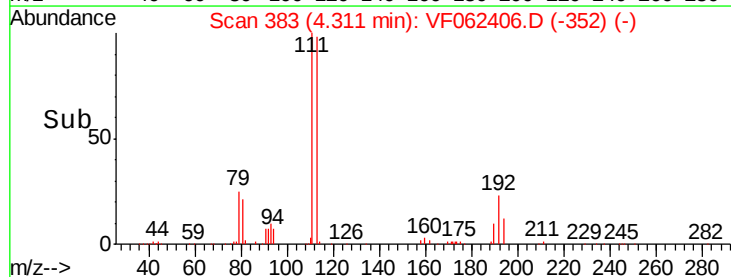
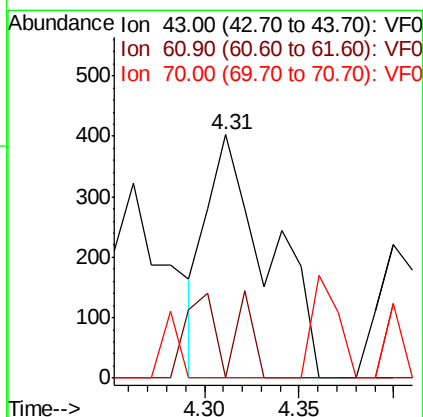
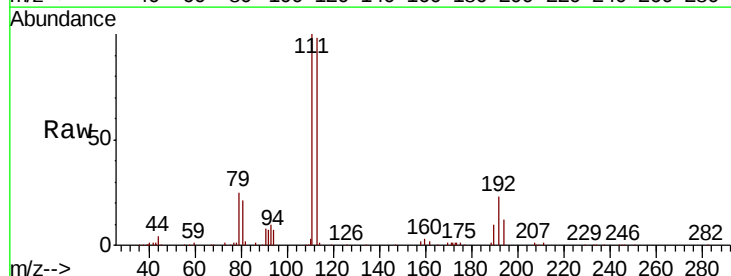
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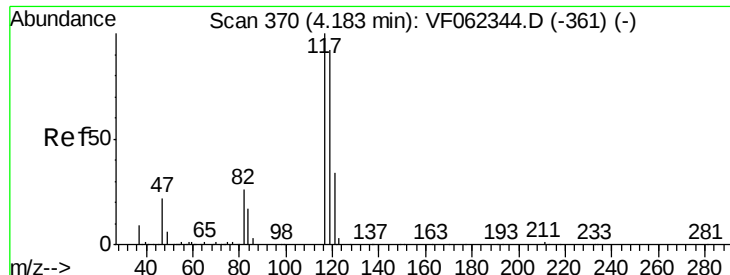
Tgt Ion: 113 Resp: 214933
 Ion Ratio Lower Upper
 113 100
 111 98.7 79.4 119.0
 192 20.6 16.0 24.0



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.31 min Scan# 383
 Delta R.T. 0.01 min
 Lab File: VF062406.D
 Acq: 9 May 2019 20:06

Tgt Ion: 43 Resp: 914
 Ion Ratio Lower Upper
 43 100
 61 25.7 0.0 0.0#
 70 0.0 8.2 12.2#





#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.19 min Scan# 371

Delta R.T. 0.01 min

Lab File: VF062406.D

Acq: 9 May 2019 20:06

Instrument :

MSVOA_F

ClientSampleId :

OR-03-050719-A

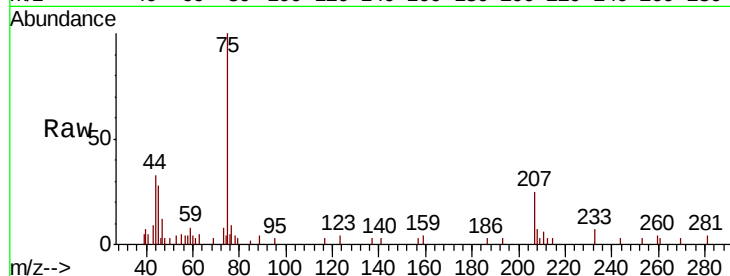
Tgt Ion: 117 Resp: 73

Ion Ratio Lower Upper

117 100

119 0.0 73.4 110.2#

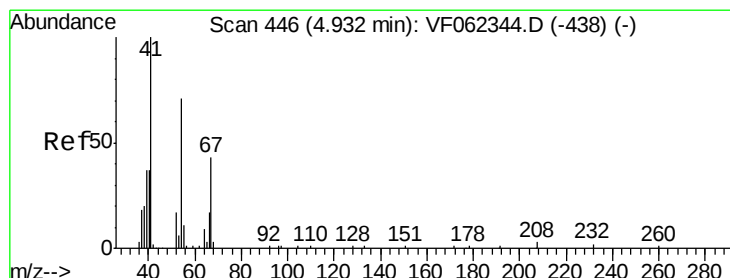
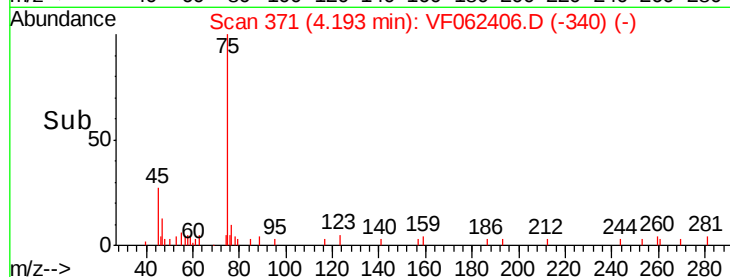
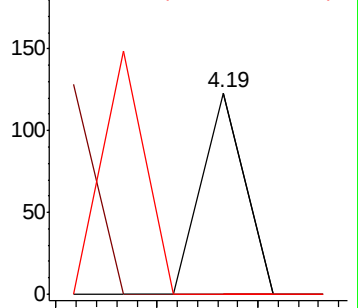
121 0.0 27.4 41.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 1.367 ug/l

RT: 4.91 min Scan# 444

Delta R.T. -0.02 min

Lab File: VF062406.D

Acq: 9 May 2019 20:06

Tgt Ion: 41 Resp: 685

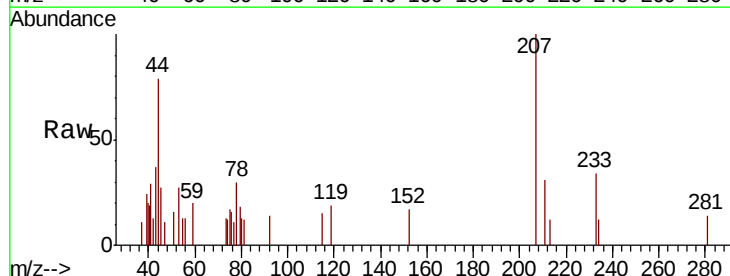
Ion Ratio Lower Upper

41 100

39 133.7 54.3 81.5#

67 0.0 37.8 56.8#

52 12.6 58.2 87.4#

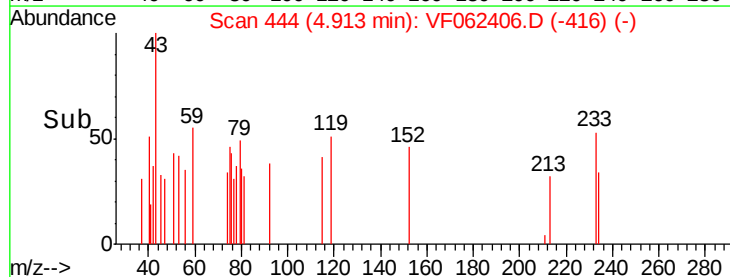
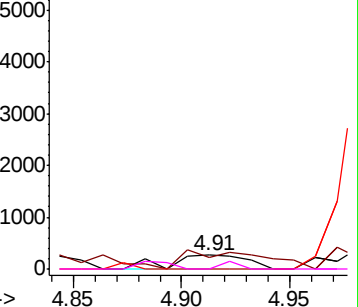


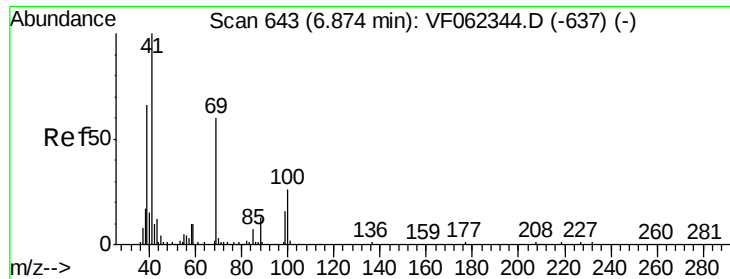
Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

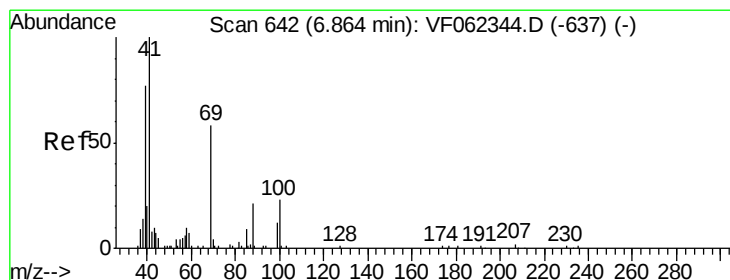
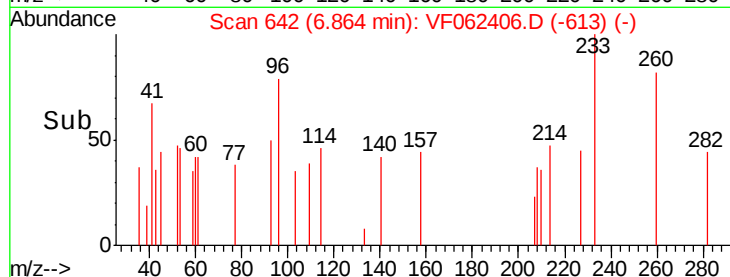
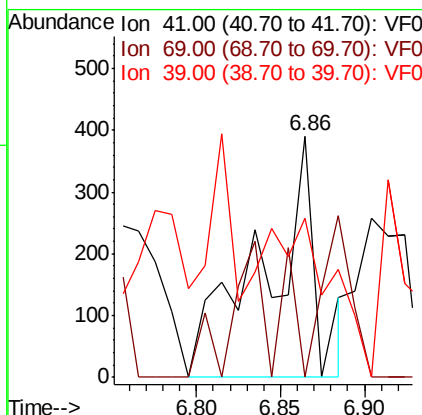
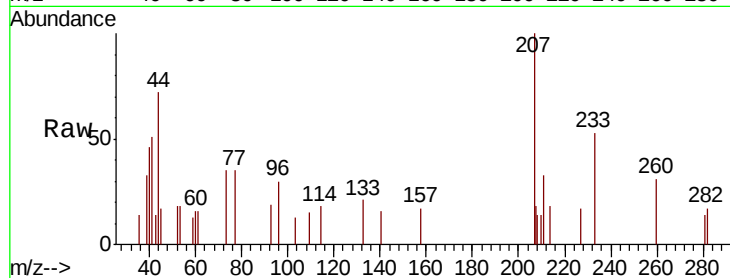




#48
Methyl methacrylate
Concen: 1.241 ug/l
RT: 6.86 min Scan# 642
Delta R.T. -0.01 min
Lab File: VF062406.D
Acq: 9 May 2019 20:06

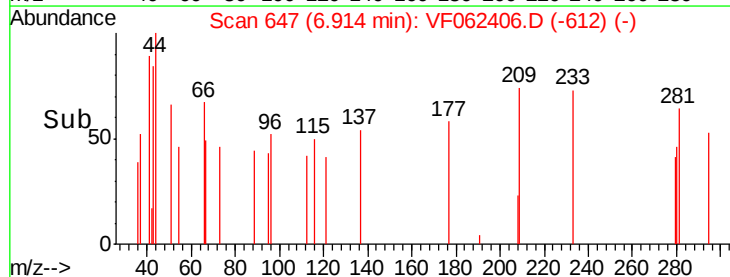
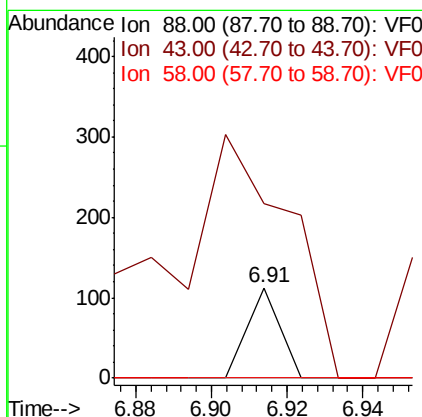
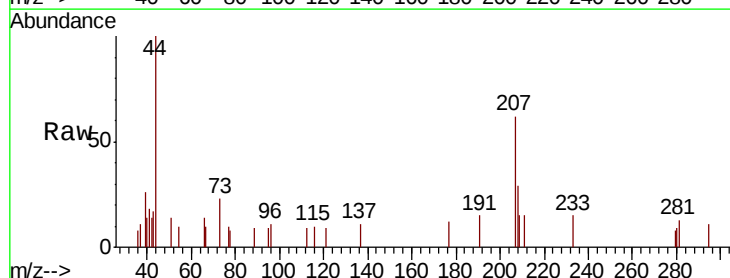
Instrument :
MSVOA_F
ClientSampleId :
OR-03-050719-A

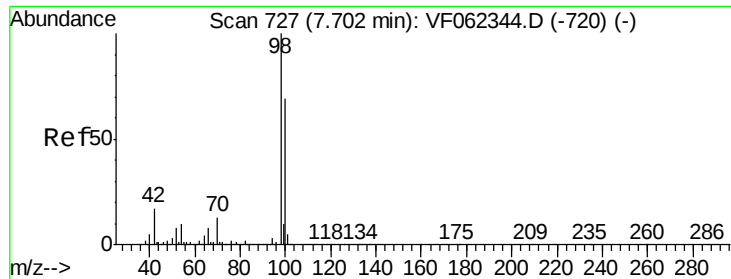
Tgt Ion: 41 Resp: 834
Ion Ratio Lower Upper
41 100
69 36.8 48.6 72.8#
39 78.2 56.1 84.1



#49
1,4-Dioxane
Concen: Below Cal
RT: 6.91 min Scan# 647
Delta R.T. 0.05 min
Lab File: VF062406.D
Acq: 9 May 2019 20:06

Tgt Ion: 88 Resp: 66
Ion Ratio Lower Upper
88 100
43 880.3 55.6 83.4#
58 0.0 52.8 79.2#

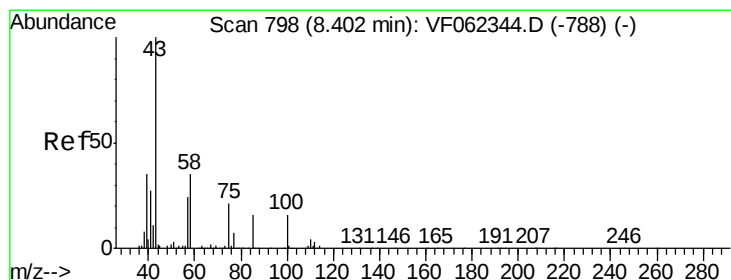
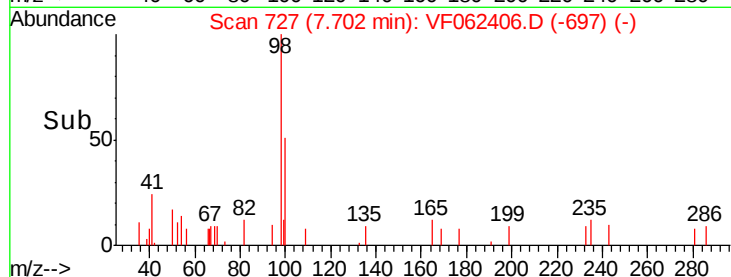
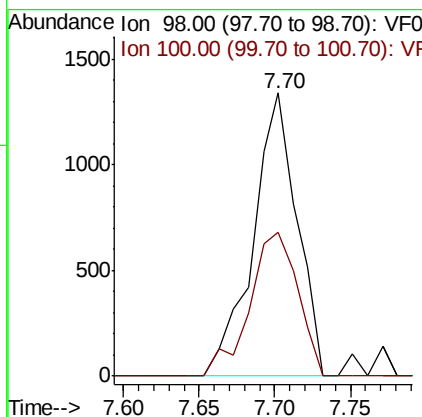
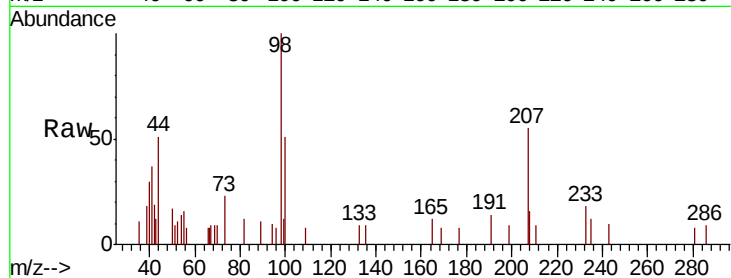




#50
Toluene-d8
Concen: 0.580 ug/l
RT: 7.70 min Scan# 727
Delta R.T. 0.00 min
Lab File: VF062406.D
Acq: 9 May 2019 20:06

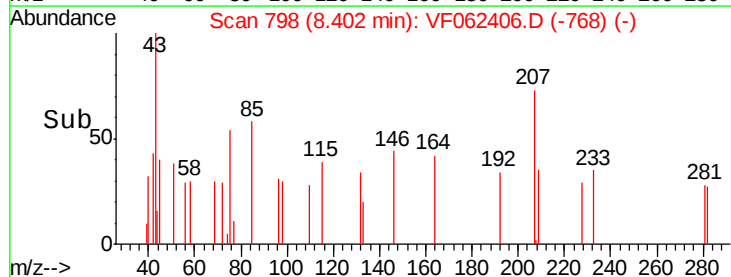
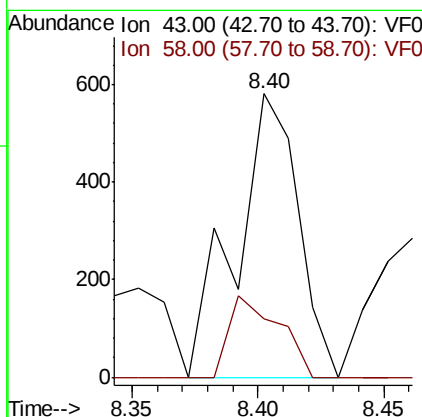
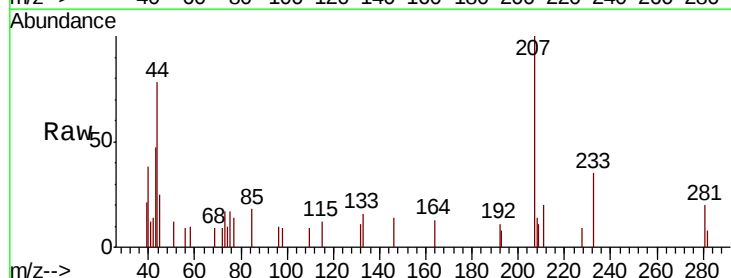
Instrument :
MSVOA_F
ClientSampleId :
OR-03-050719-A

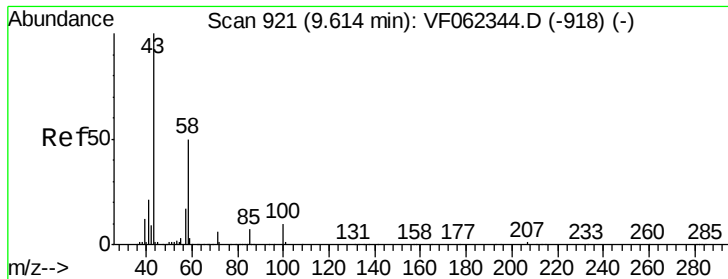
Tgt Ion: 98 Resp: 2723
Ion Ratio Lower Upper
98 100
100 55.8 53.3 79.9



#51
4-Methyl-2-Pentanone
Concen: 1.396 ug/l
RT: 8.40 min Scan# 798
Delta R.T. 0.00 min
Lab File: VF062406.D
Acq: 9 May 2019 20:06

Tgt Ion: 43 Resp: 1006
Ion Ratio Lower Upper
43 100
58 23.1 27.8 41.6#





#59

2-Hexanone

Concen: 3.685 ug/l

RT: 9.61 min Scan# 921

Delta R.T. 0.00 min

Lab File: VF062406.D

Acq: 9 May 2019 20:06

Instrument :

MSVOA_F

ClientSampleId :

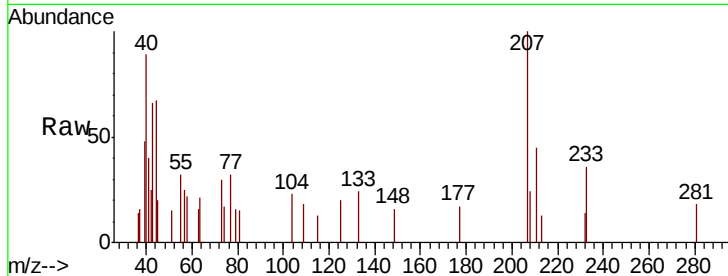
OR-03-050719-A

Tgt Ion: 43 Resp: 1836

Ion Ratio Lower Upper

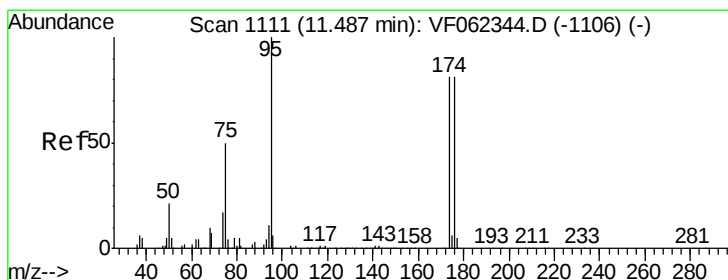
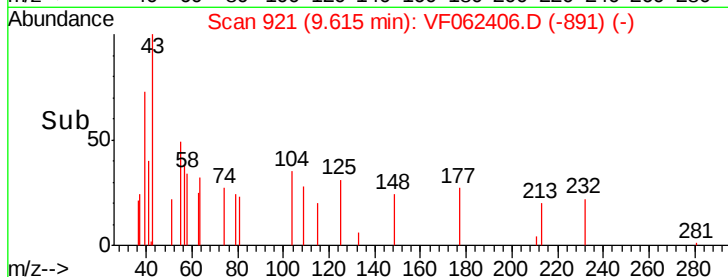
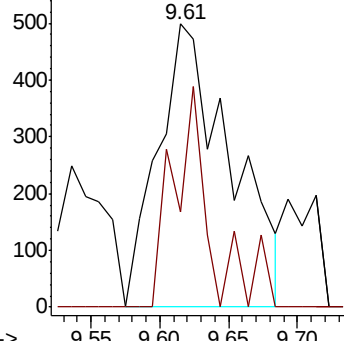
43 100

58 31.0 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: 56.161 ug/l

RT: 11.49 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VF062406.D

Acq: 9 May 2019 20:06

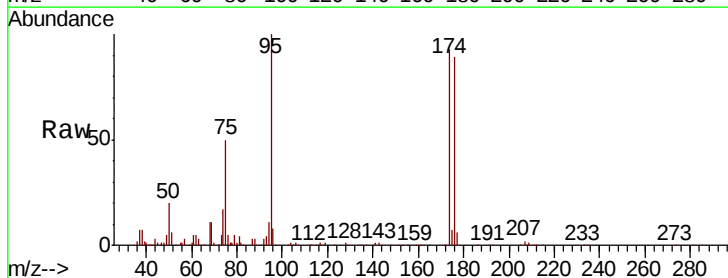
Tgt Ion: 95 Resp: 118903

Ion Ratio Lower Upper

95 100

174 100.0 0.0 191.8

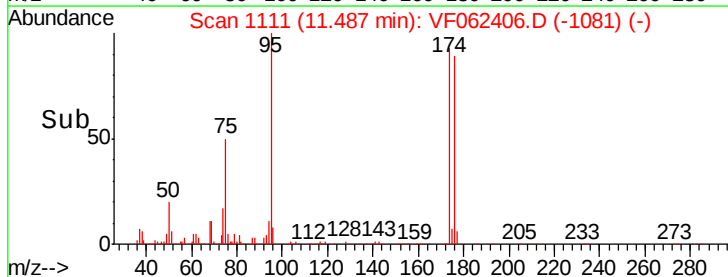
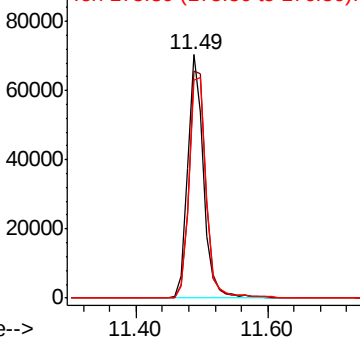
176 98.5 0.0 193.2

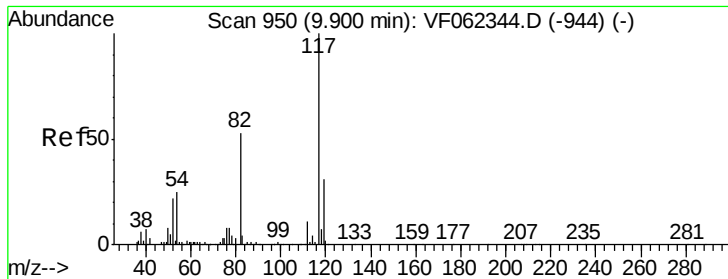


Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

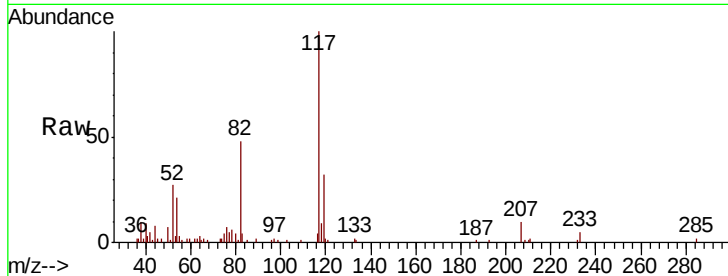




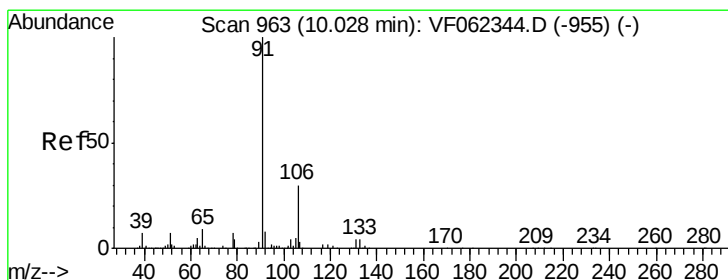
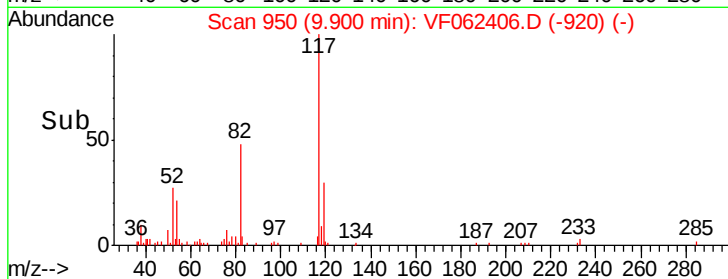
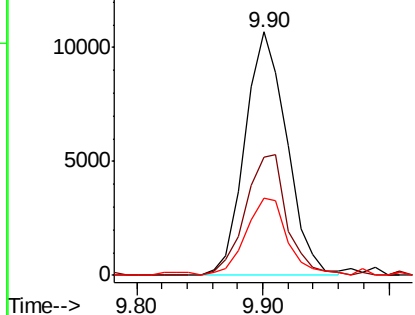
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 950
Delta R.T. 0.00 min
Lab File: VF062406.D
Acq: 9 May 2019 20:06

Instrument :
MSVOA_F
ClientSampleId :
OR-03-050719-A

Tgt Ion:117 Resp: 24661
Ion Ratio Lower Upper
117 100
82 48.5 42.2 63.2
119 30.8 25.0 37.4

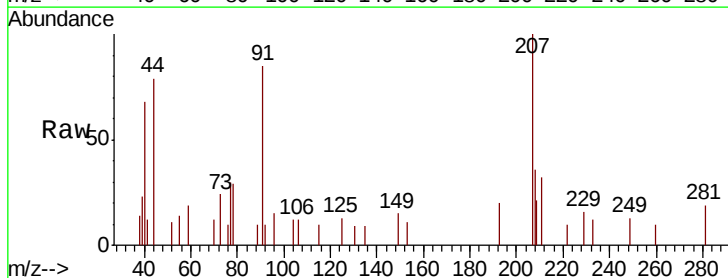


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 118.90 (118.60 to 119.60): V

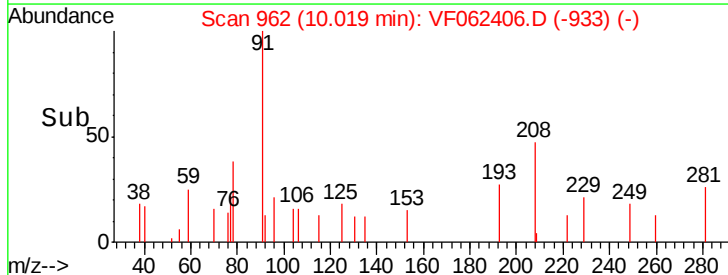
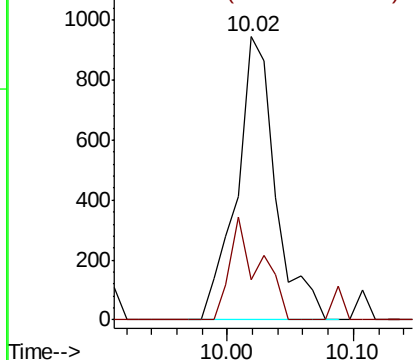


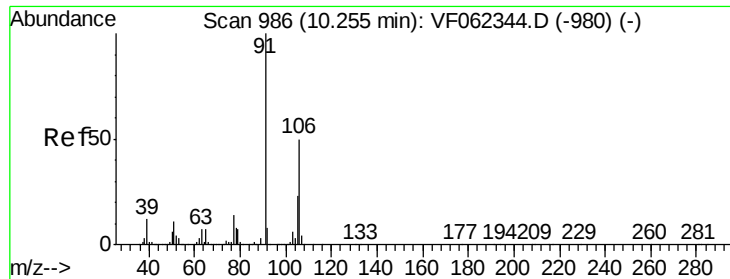
#67
Ethyl Benzene
Concen: 2.837 ug/l
RT: 10.02 min Scan# 962
Delta R.T. -0.01 min
Lab File: VF062406.D
Acq: 9 May 2019 20:06

Tgt Ion: 91 Resp: 2027
Ion Ratio Lower Upper
91 100
106 14.2 24.1 36.1#



Abundance Ion 91.00 (90.70 to 91.70): VF0
Ion 106.00 (105.70 to 106.70): V

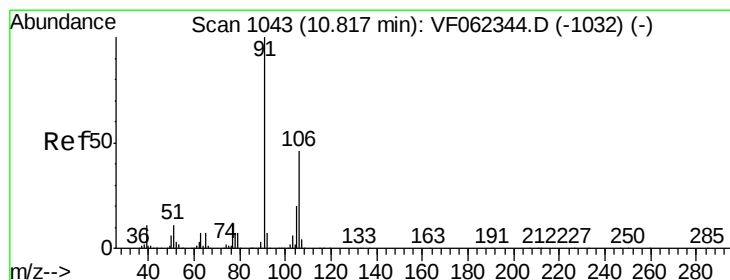
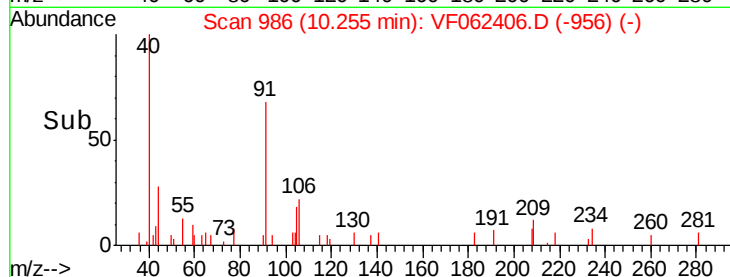
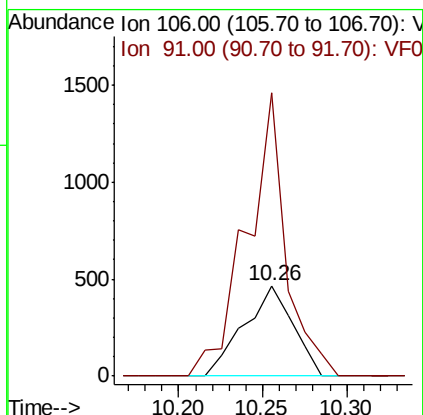
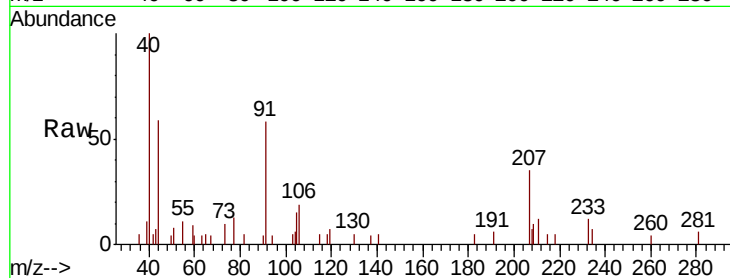




#68
m/p-Xylenes
Concen: 3.573 ug/l
RT: 10.26 min Scan# 986
Delta R.T. 0.00 min
Lab File: VF062406.D
Acq: 9 May 2019 20:06

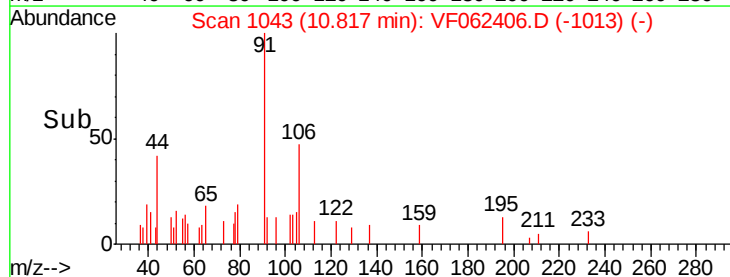
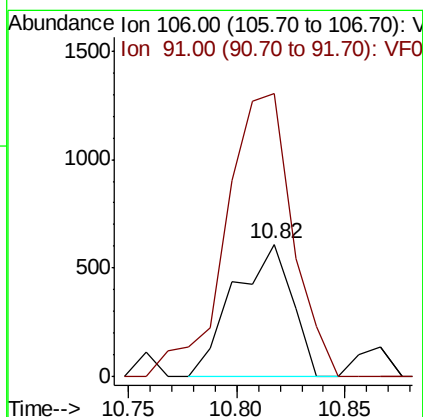
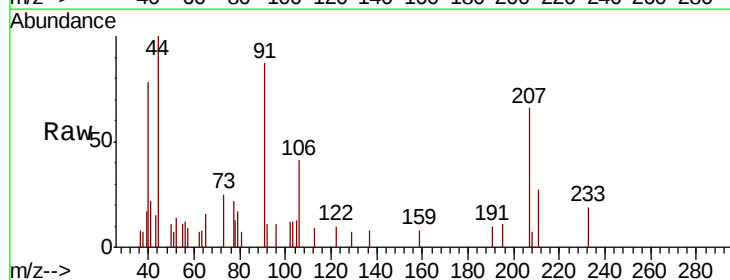
Instrument :
MSVOA_F
ClientSampleId :
OR-03-050719-A

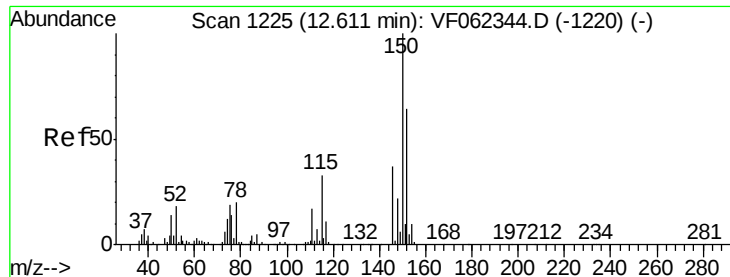
Tgt Ion:106 Resp: 942
Ion Ratio Lower Upper
106 100
91 250.3 167.4 251.2



#69
o-Xylene
Concen: 3.998 ug/l
RT: 10.82 min Scan# 1043
Delta R.T. 0.00 min
Lab File: VF062406.D
Acq: 9 May 2019 20:06

Tgt Ion:106 Resp: 1139
Ion Ratio Lower Upper
106 100
91 245.6 111.3 333.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1225

Delta R.T. 0.00 min

Lab File: VF062406.D

Acq: 9 May 2019 20:06

Instrument :

MSVOA_F

ClientSampleId :

OR-03-050719-A

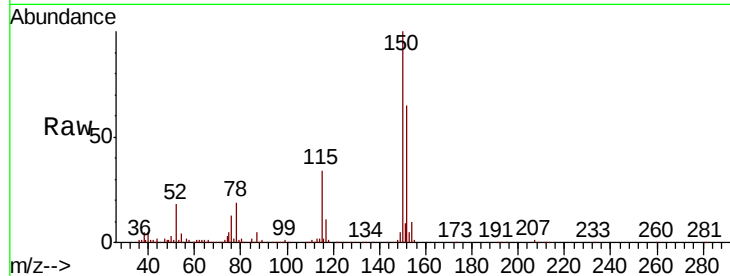
Tgt Ion: 152 Resp: 118693

Ion Ratio Lower Upper

152 100

115 52.7 26.4 79.2

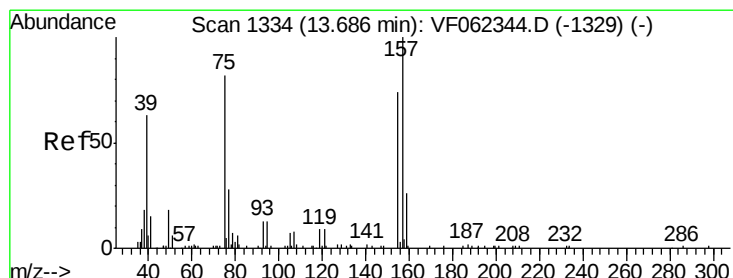
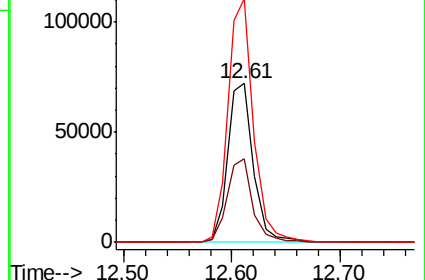
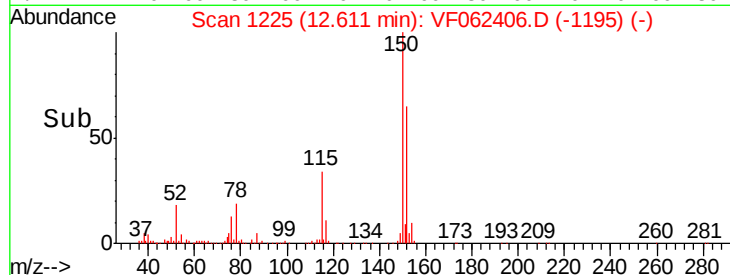
150 152.5 0.0 335.0



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.309 ug/l

RT: 13.71 min Scan# 1336

Delta R.T. 0.02 min

Lab File: VF062406.D

Acq: 9 May 2019 20:06

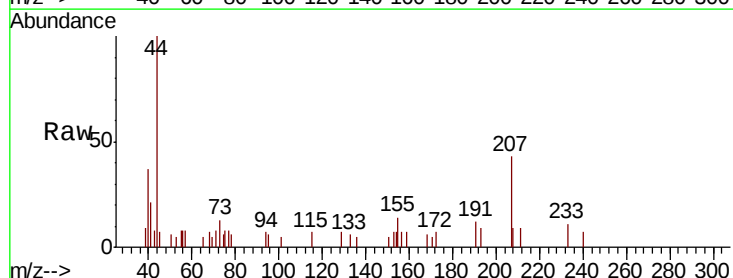
Tgt Ion: 75 Resp: 323

Ion Ratio Lower Upper

75 100

155 96.3 51.8 155.4

157 23.8 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

