

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121018\
 Data File : VF060963.D
 Acq On : 10 Dec 2018 19:47
 Operator : VA/AP
 Sample : J6214-31
 Misc : 5.95µ/5mL/MSVOA-F/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

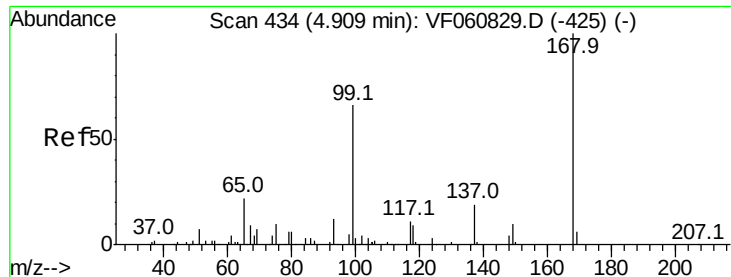
Quant Time: Dec 11 04:58:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	225357	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.59	114	408729	50.00	ug/l	-0.05
63) Chlorobenzene-d5	9.77	117	342975	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.55	152	132047	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	129178	48.66	ug/l	-0.04
Spiked Amount			Recovery	=	97.32%	
35) Dibromofluoromethane	4.11	113	140094	43.20	ug/l	-0.04
Spiked Amount			Recovery	=	86.40%	
50) Toluene-d8	7.55	98	344155	36.03	ug/l	-0.04
Spiked Amount			Recovery	=	72.06%	
62) 4-Bromofluorobenzene	11.41	95	146587	33.77	ug/l	-0.03
Spiked Amount			Recovery	=	67.54%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.58	59	143	1.314	ug/l #	62
13) Acrolein	1.88	56	450	4.364	ug/l	84
15) Acrylonitrile	2.95	53	443	1.816	ug/l #	17
16) Acetone	2.23	43	48231	98.520	ug/l	97
17) Carbon Disulfide	1.83	76	8330	1.741	ug/l #	87
20) Methylene Chloride	2.25	84	4019	2.238	ug/l	87
25) 2-Butanone	4.33	43	17600	20.785	ug/l #	85
29) Tetrahydrofuran	4.08	42	642	1.789	ug/l #	56
41) Methacrylonitrile	4.72	41	583	Below Cal	#	23
43) Isopropyl Acetate	6.96	43	204	Below Cal	#	49
48) Methyl methacrylate	6.63	41	2462	1.476	ug/l #	39
49) 1,4-Dioxane	6.65	88	71	5.817	ug/l #	1
59) 2-Hexanone	9.40	43	1270	1.066	ug/l #	27
68) m/p-Xylenes	10.13	106	5498	1.231	ug/l #	63
69) o-Xylene	10.71	106	6049	1.228	ug/l	54
74) N-amyl acetate	11.43	43	5667	2.352	ug/l #	17
83) tert-Butylbenzene	12.20	119	19103	2.214	ug/l #	50
84) 1,2,4-Trimethylbenzene	12.20	105	164658	19.476	ug/l	96
86) p-Isopropyltoluene	12.45	119	17289	1.746	ug/l	91
95) Naphthalene	14.46	128	51196	6.088	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.04 min

Lab File: VF060963.D

Acq: 10 Dec 2018 19:47

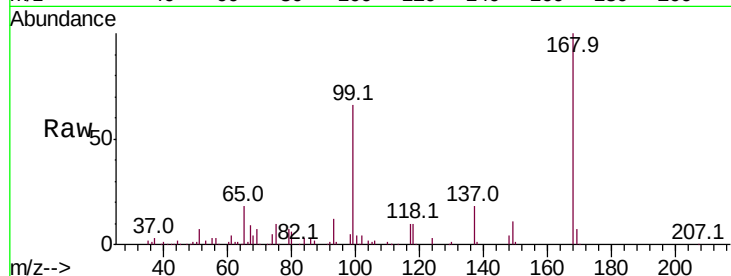
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 225357

Ion Ratio Lower Upper

168 100

99 66.2 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

80000

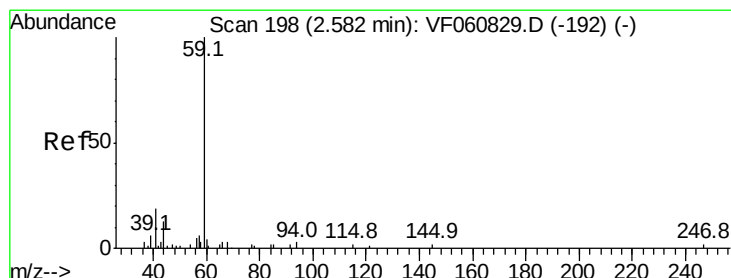
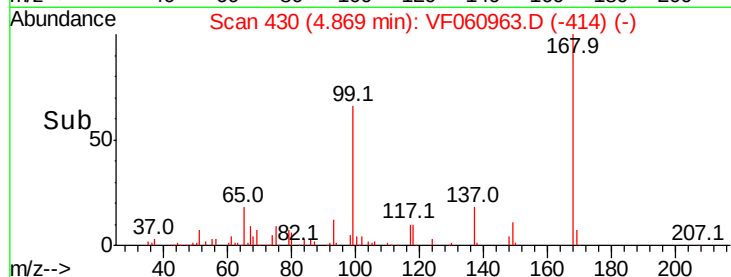
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.314 ug/l

RT: 2.58 min Scan# 198

Delta R.T. -0.00 min

Lab File: VF060963.D

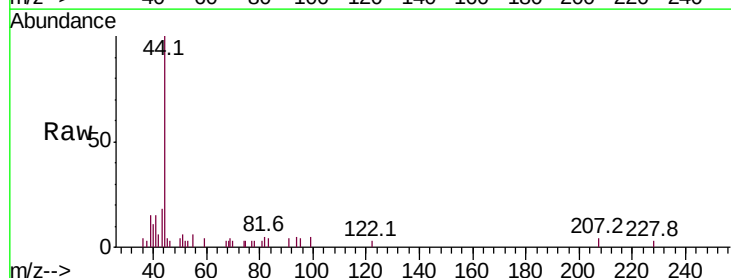
Acq: 10 Dec 2018 19:47

Tgt Ion: 59 Resp: 143

Ion Ratio Lower Upper

59 100

57 0.0 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

250

200

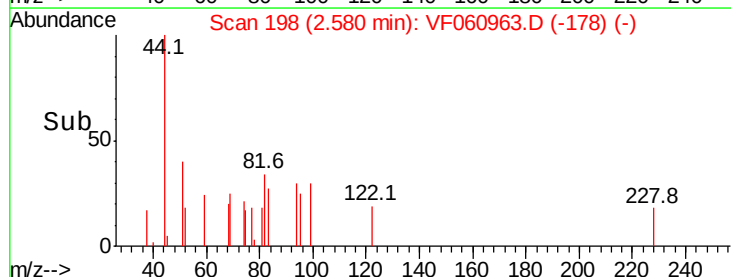
150

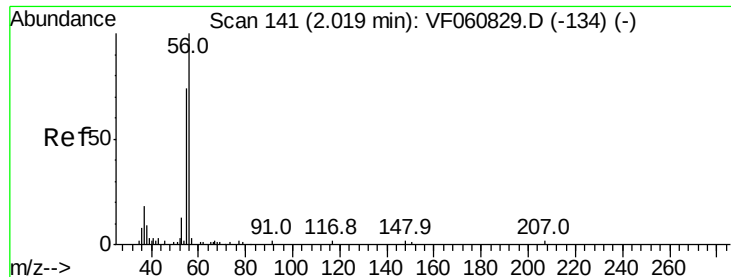
100

50

0

Time-->





#13

Acrolein

Concen: 4.364 ug/l

RT: 1.88 min Scan# 127

Delta R.T. -0.14 min

Lab File: VF060963.D

Acq: 10 Dec 2018 19:47

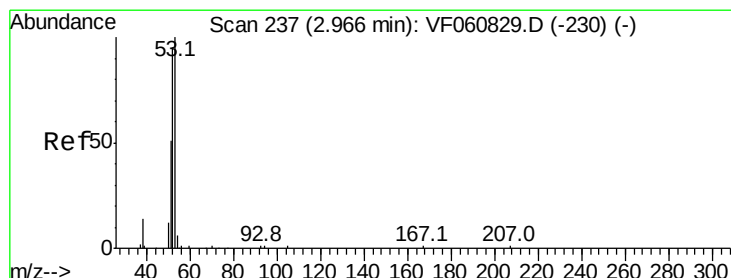
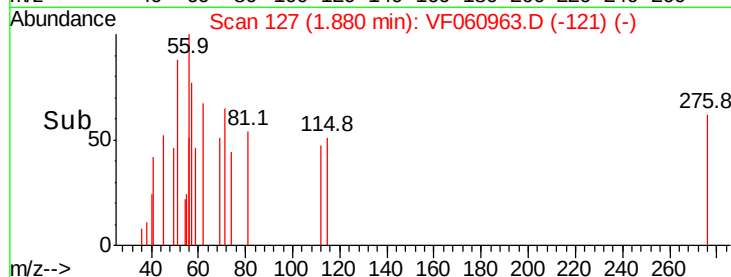
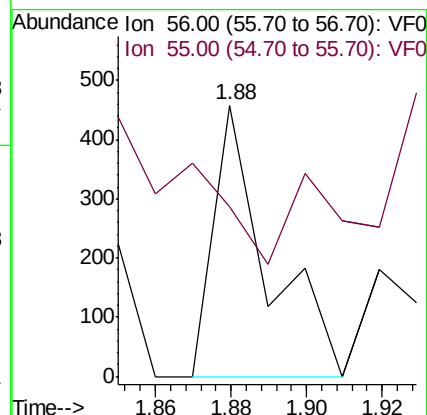
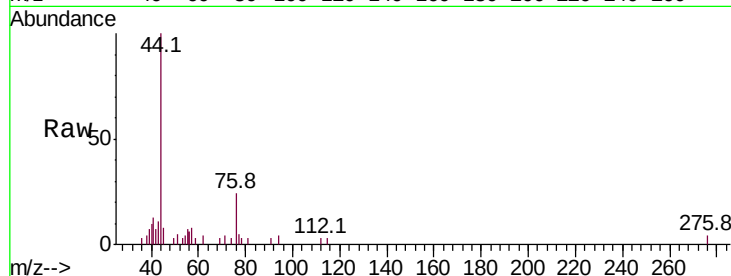
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 450

Ion Ratio Lower Upper

56 100

55 62.4 61.2 91.8



#15

Acrylonitrile

Concen: 1.816 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.02 min

Lab File: VF060963.D

Acq: 10 Dec 2018 19:47

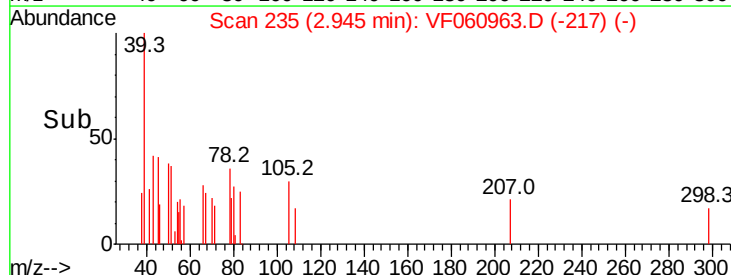
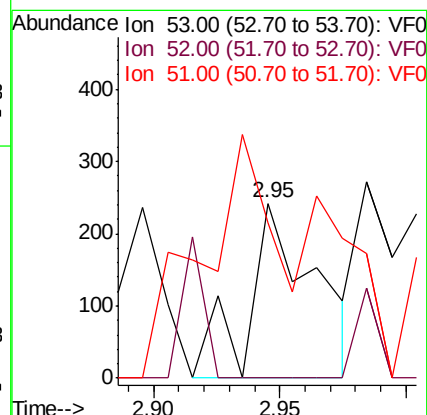
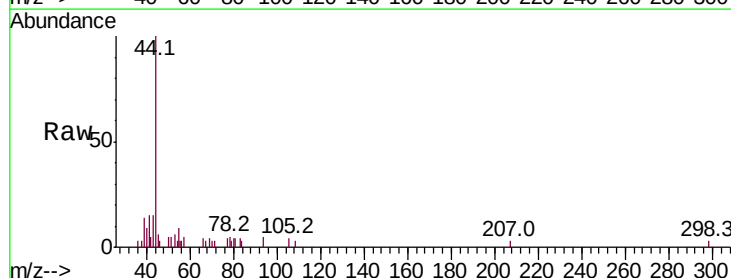
Tgt Ion: 53 Resp: 443

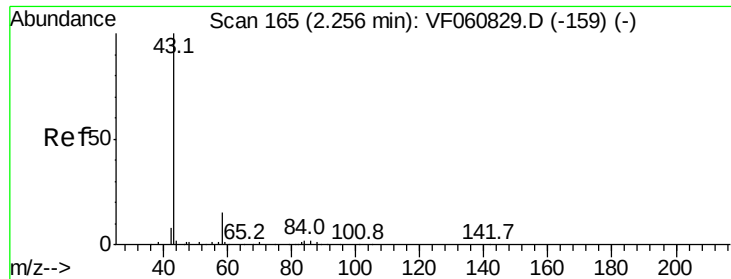
Ion Ratio Lower Upper

53 100

52 0.0 76.5 114.7#

51 88.8 40.7 61.1#





#16

Acetone

Concen: 98.520 ug/l

RT: 2.23 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF060963.D

Acq: 10 Dec 2018 19:47

Instrument :

MSVOA_F

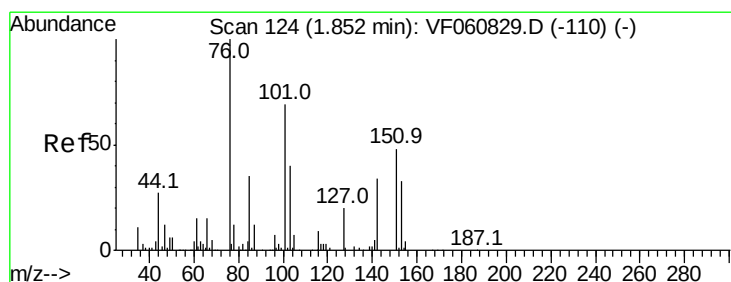
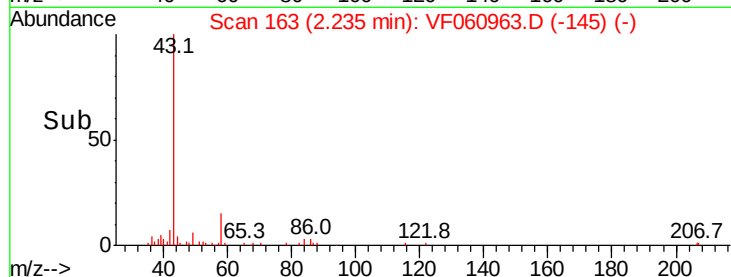
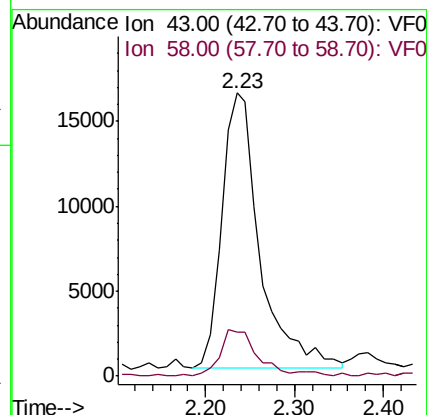
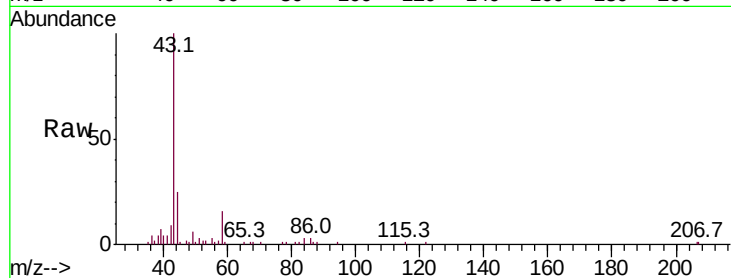
ClientSampleId :

Tot Ion: 43 Resp: 48231

Ion Ratio Lower Upper

43 100

58 15.5 11.4 17.2



#17

Carbon Disulfide

Concen: 1.741 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.02 min

Lab File: VF060963.D

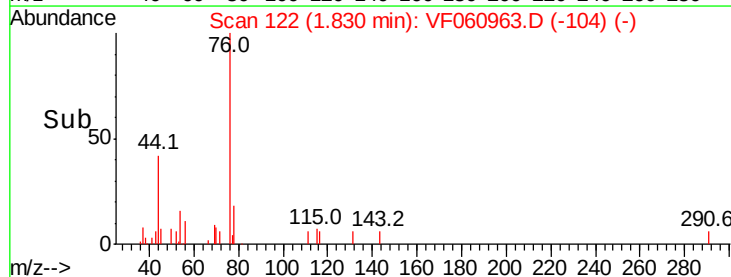
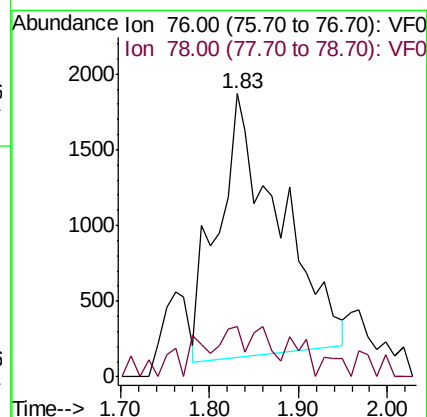
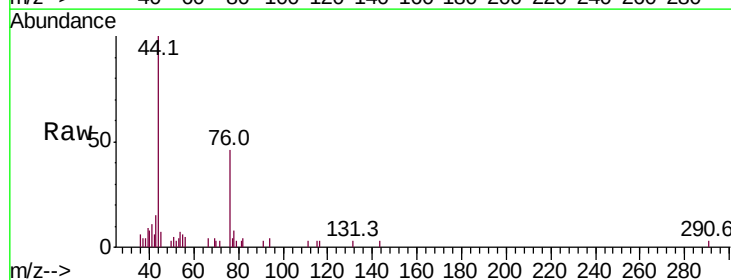
Acq: 10 Dec 2018 19:47

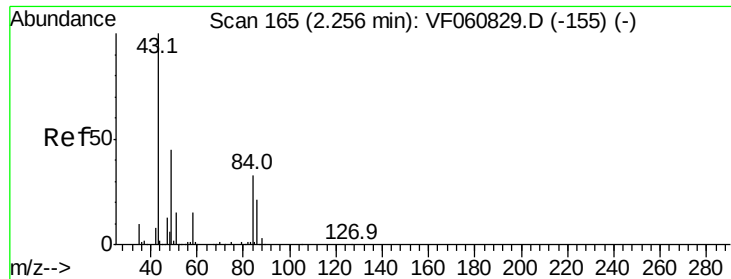
Tgt Ion: 76 Resp: 8330

Ion Ratio Lower Upper

76 100

78 17.9 10.2 15.2#

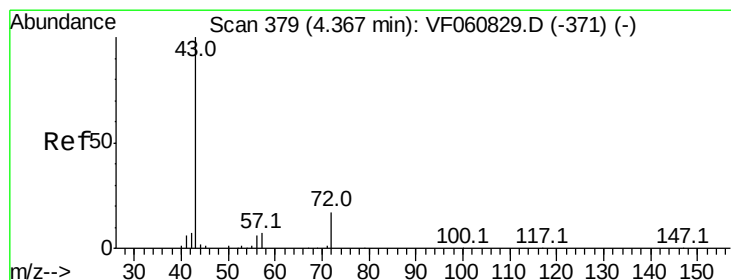
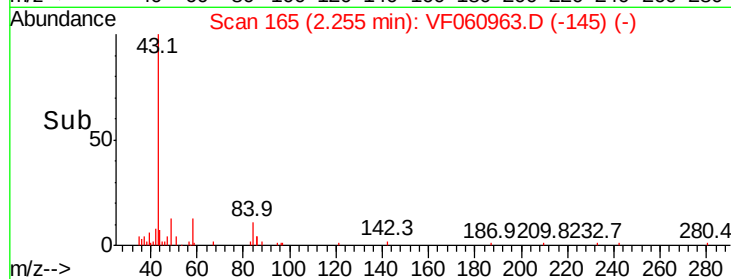
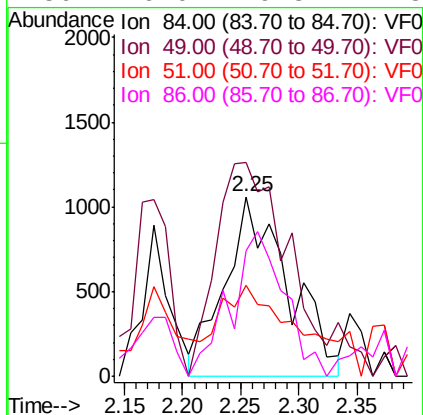
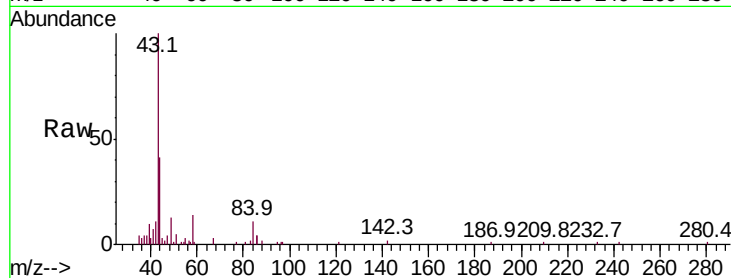




#20
Methvlene Chloride
Concen: 2.238 ug/l
RT: 2.25 min Scan# 165
Delta R.T. -0.00 min
Lab File: VF060963.D
Acq: 10 Dec 2018 19:47

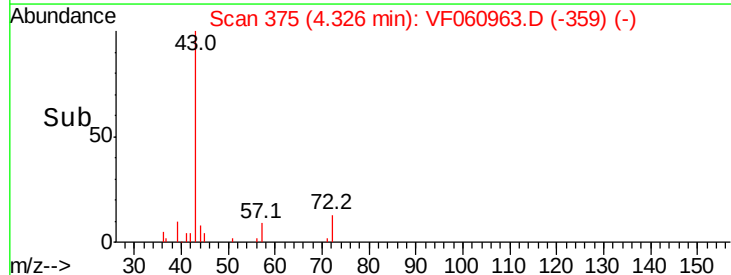
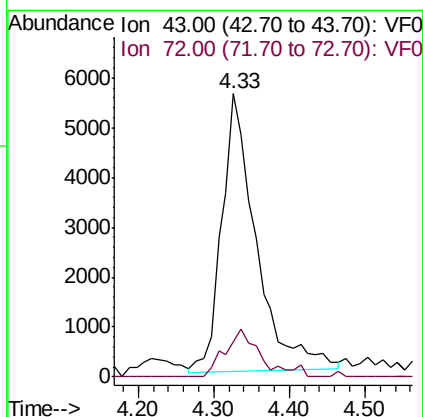
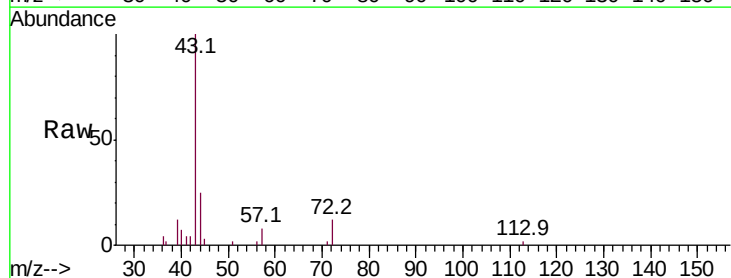
Instrument :
MSVOA_F
ClientSampleId :

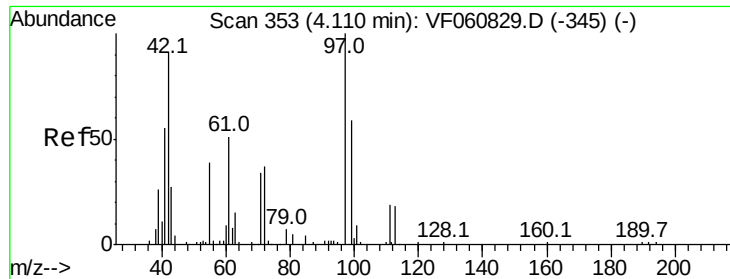
Tot Ion:	84	Resp:	4019
Ion	Ratio	Lower	Upper
84	100		
49	118.9	111.3	166.9
51	50.9	38.0	57.0
86	70.0	49.8	74.8



#25
2-Butanone
Concen: 20.785 ug/l
RT: 4.33 min Scan# 375
Delta R.T. -0.04 min
Lab File: VF060963.D
Acq: 10 Dec 2018 19:47

Tgt Ion:	43	Resp:	17600
Ion	Ratio	Lower	Upper
43	100		
72	12.3	15.4	23.2#





#29

Tetrahydrofuran

Concen: 1.789 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.03 min

Lab File: VF060963.D

Acq: 10 Dec 2018 19:47

Instrument :

MSVOA_F

ClientSampleId :

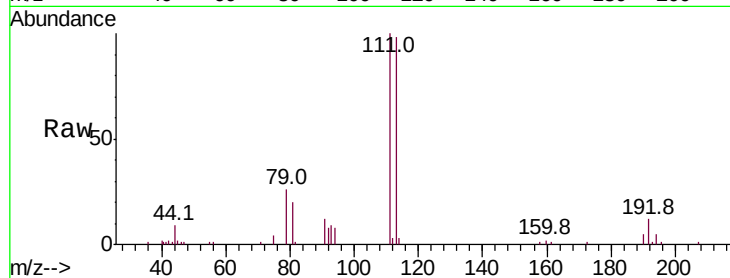
Tot Ion: 42 Resp: 642

Ion Ratio Lower Upper

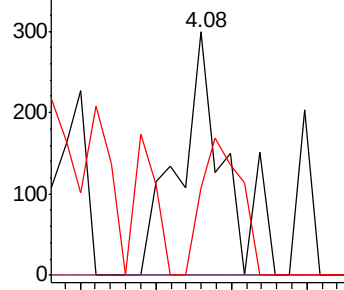
42 100

72 0.0 31.9 47.9#

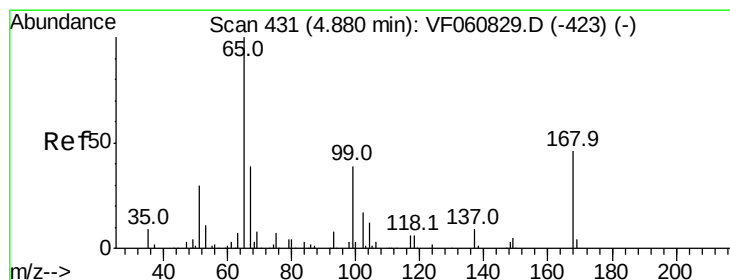
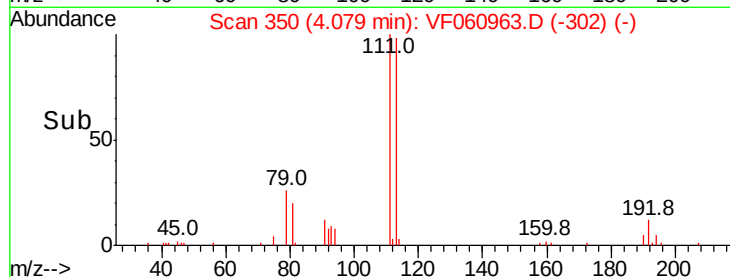
71 48.4 28.7 43.1#



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



Time-->



#33

1,2-Dichloroethane-d4

Concen: 48.659 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.04 min

Lab File: VF060963.D

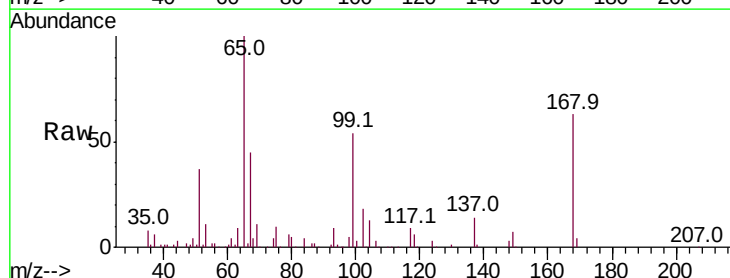
Acq: 10 Dec 2018 19:47

Tgt Ion: 65 Resp: 129178

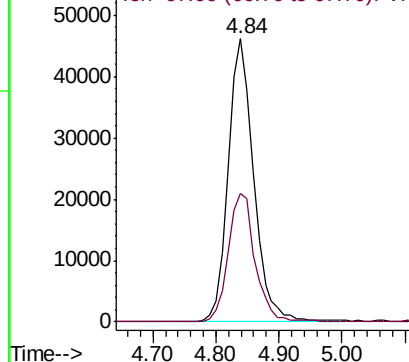
Ion Ratio Lower Upper

65 100

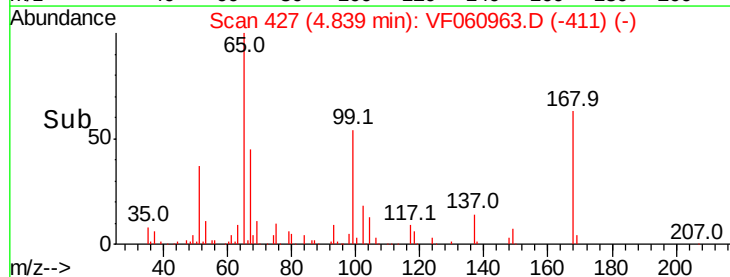
67 45.2 0.0 96.4

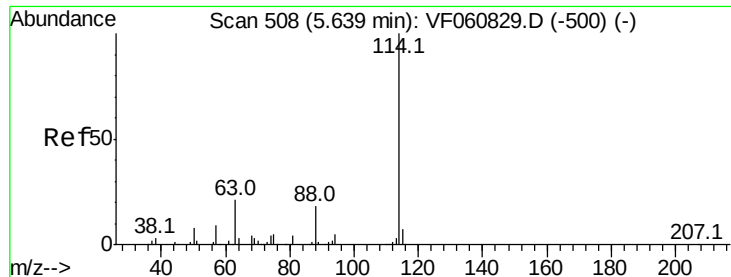


Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0



Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.05 min

Lab File: VF060963.D

Acq: 10 Dec 2018 19:47

Instrument :

MSVOA_F

ClientSampleId :

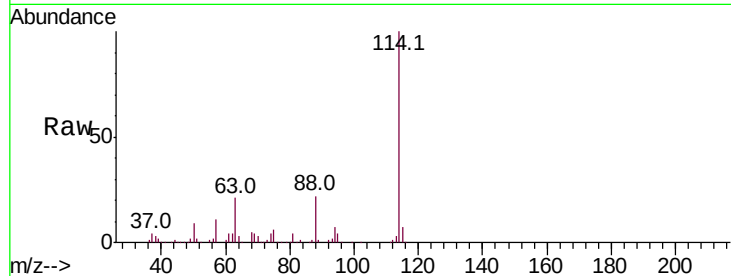
Tot Ion:114 Resp: 408729

Ion Ratio Lower Upper

114 100

63 21.4 0.0 41.6

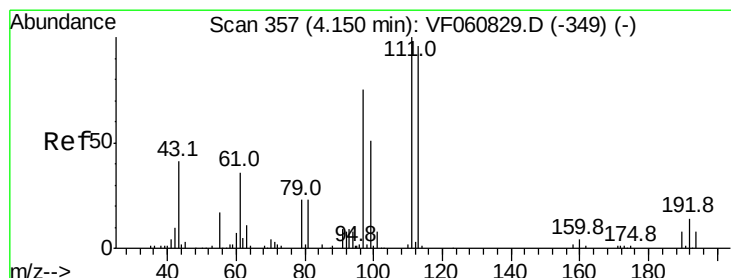
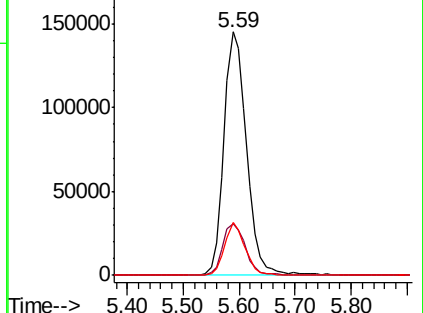
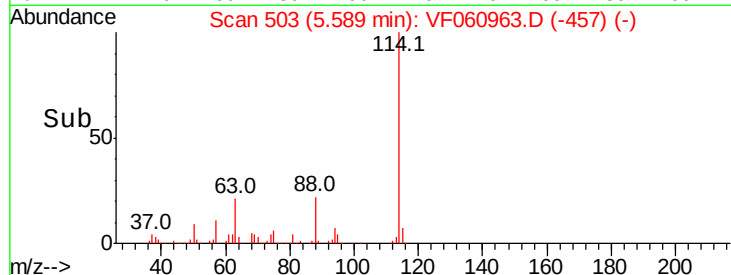
88 21.9 0.0 36.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 43.205 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.04 min

Lab File: VF060963.D

Acq: 10 Dec 2018 19:47

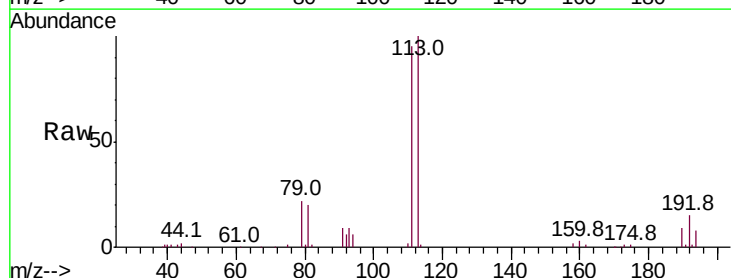
Tgt Ion:113 Resp: 140094

Ion Ratio Lower Upper

113 100

111 95.4 83.0 124.6

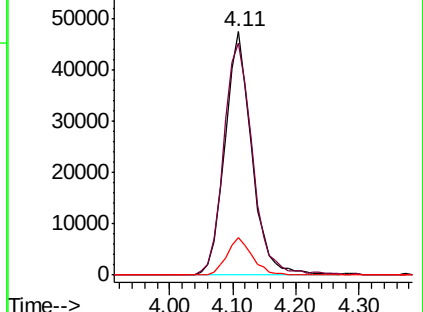
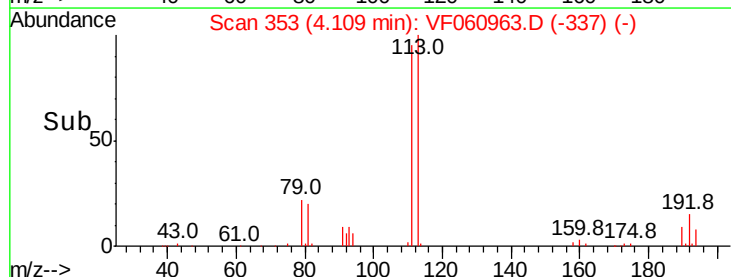
192 15.9 12.3 18.5

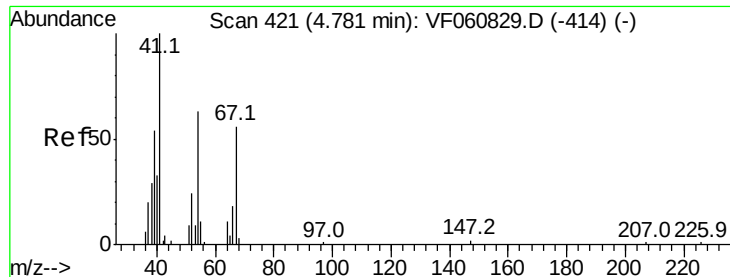


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

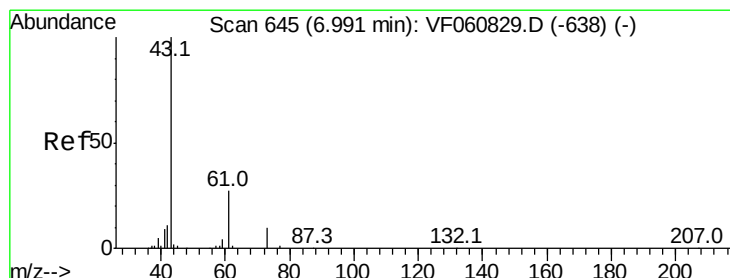
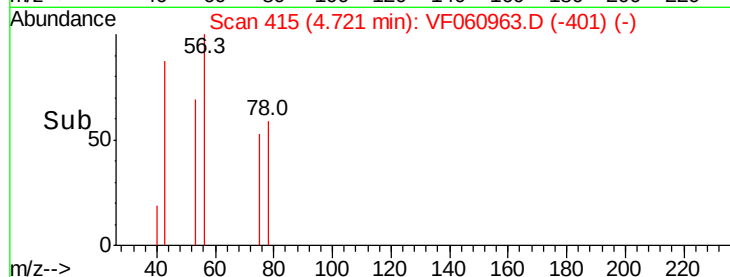
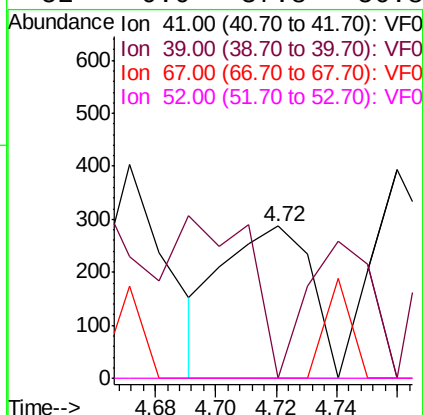
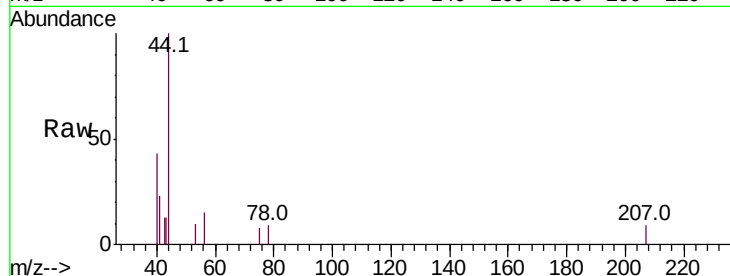




#41
Methacrylonitrile
Concen: Below Cal
RT: 4.72 min Scan# 415
Delta R.T. -0.06 min
Lab File: VF060963.D
Acq: 10 Dec 2018 19:47

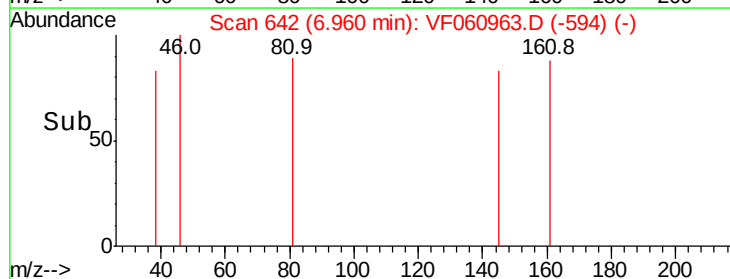
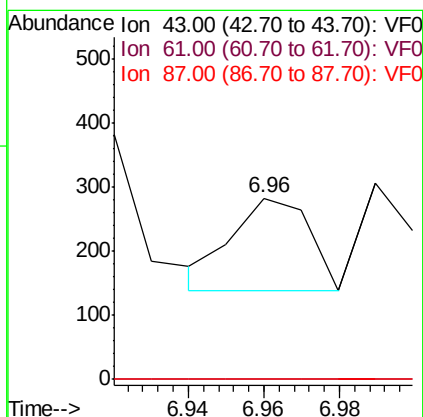
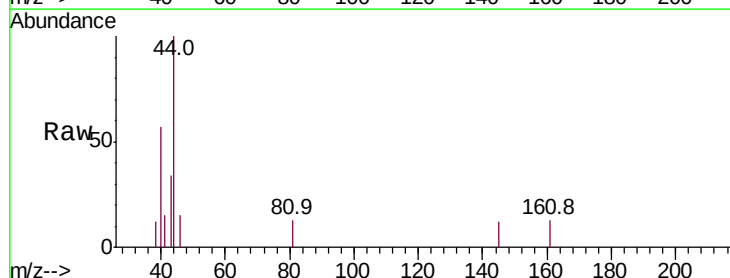
Instrument :
MSVOA_F
ClientSampleId :

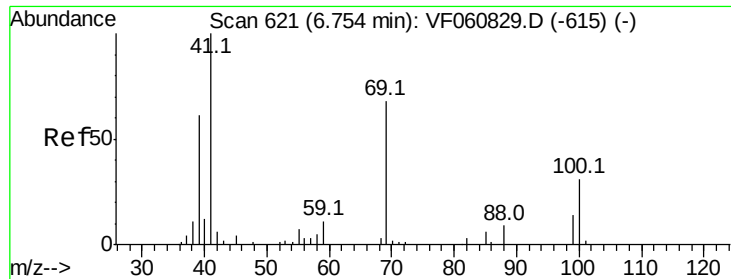
Tot Ion: 41 Resp: 583
Ion Ratio Lower Upper
41 100
39 0.0 53.0 79.6#
67 0.0 43.8 65.6#
52 0.0 37.8 56.8#



#43
Isopropyl Acetate
Concen: Below Cal
RT: 6.96 min Scan# 642
Delta R.T. -0.03 min
Lab File: VF060963.D
Acq: 10 Dec 2018 19:47

Tgt Ion: 43 Resp: 204
Ion Ratio Lower Upper
43 100
61 0.0 21.4 32.0#
87 0.0 0.2 0.4#

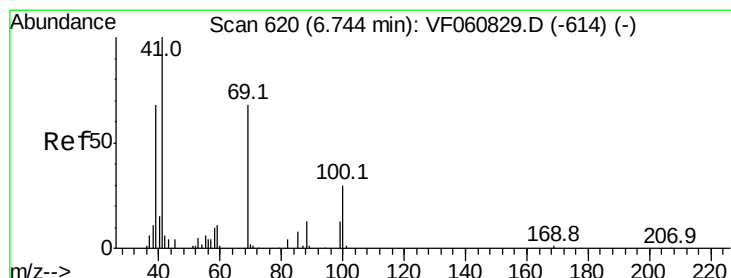
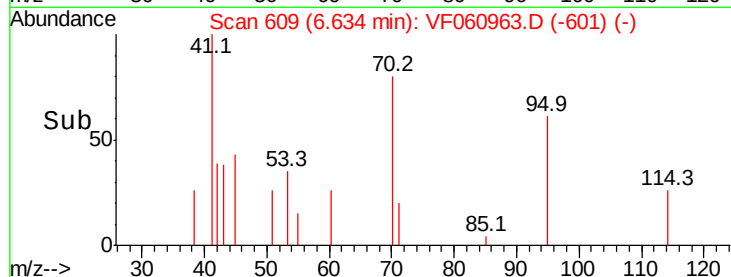
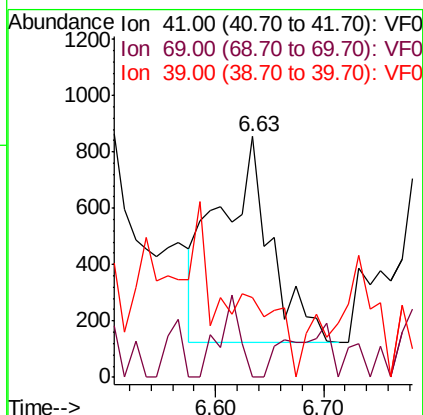
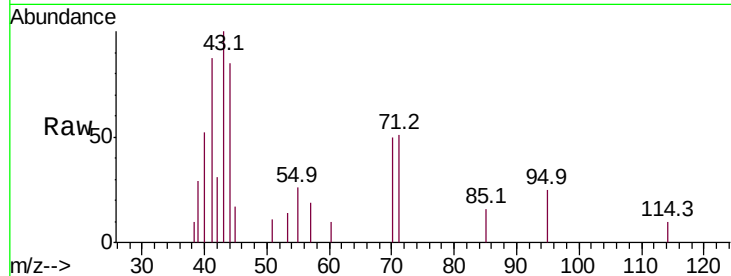




#48
Methyl methacrylate
Concen: 1.476 ug/l
RT: 6.63 min Scan# 609
Delta R.T. -0.12 min
Lab File: VF060963.D
Acq: 10 Dec 2018 19:47

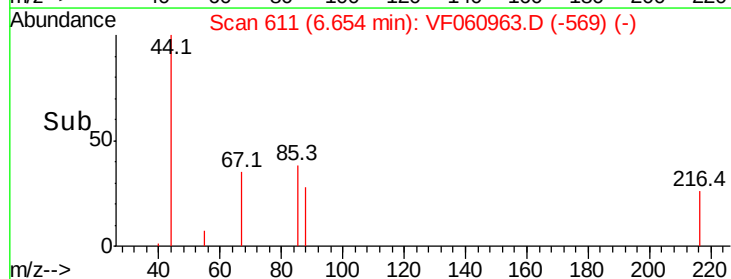
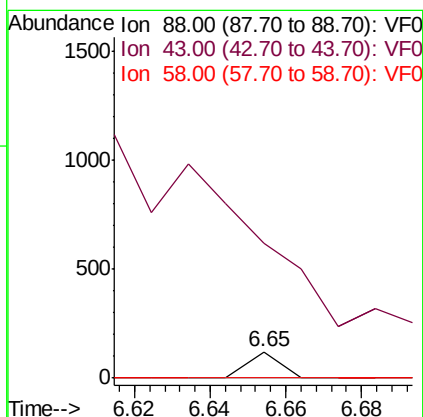
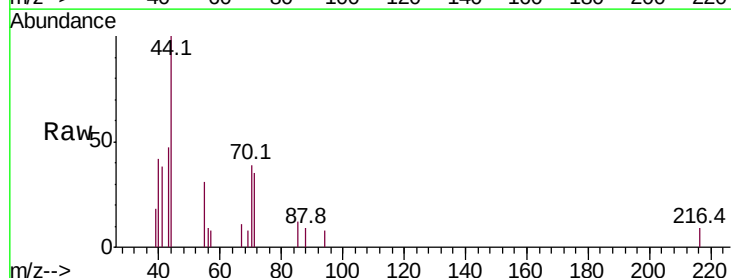
Instrument :
MSVOA_F
ClientSampled :

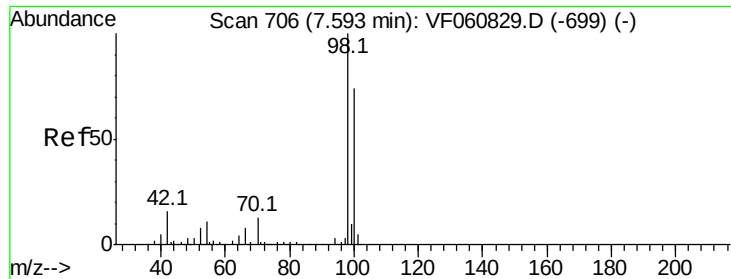
Tot Ion: 41 Resp: 2462
Ion Ratio Lower Upper
41 100
69 0.0 53.9 80.9#
39 33.2 49.0 73.6#



#49
1,4-Dioxane
Concen: 5.817 ug/l
RT: 6.65 min Scan# 611
Delta R.T. -0.09 min
Lab File: VF060963.D
Acq: 10 Dec 2018 19:47

Tgt Ion: 88 Resp: 71
Ion Ratio Lower Upper
88 100
43 514.2 42.0 63.0#
58 0.0 61.8 92.8#





#50

Toluene-d8

Concen: 36.031 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.04 min

Lab File: VF060963.D

Acq: 10 Dec 2018 19:47

Instrument :

MSVOA_F

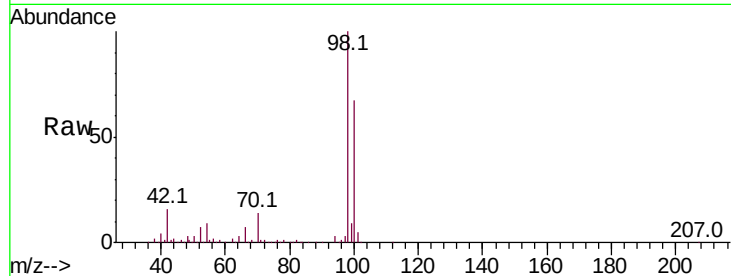
ClientSampleId :

Tot Ion: 98 Resp: 344155

Ion Ratio Lower Upper

98 100

100 67.3 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

150000

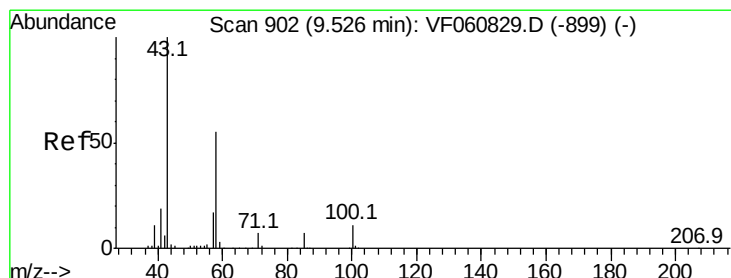
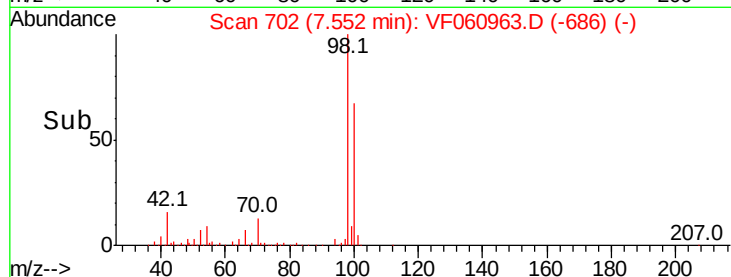
7.55

100000

50000

0

Time-->



#59

2-Hexanone

Concen: 1.066 ug/l

RT: 9.40 min Scan# 889

Delta R.T. -0.13 min

Lab File: VF060963.D

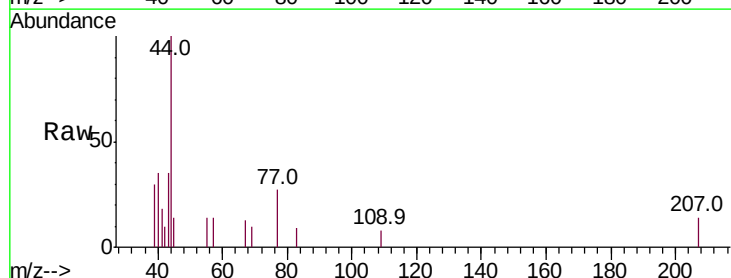
Acq: 10 Dec 2018 19:47

Tgt Ion: 43 Resp: 1270

Ion Ratio Lower Upper

43 100

58 0.0 25.6 76.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

800

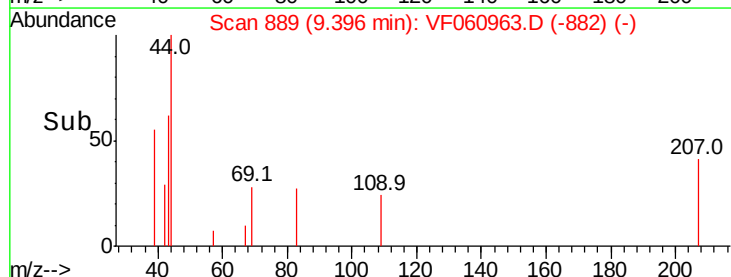
600

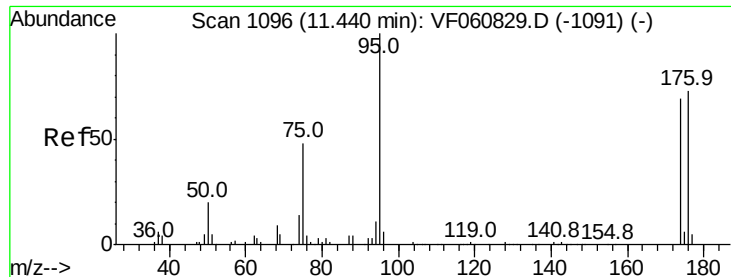
400

200

0

Time-->





#62

4-Bromofluorobenzene

Concen: 33.768 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.03 min

Lab File: VF060963.D

Acq: 10 Dec 2018 19:47

Instrument :

MSVOA_F

ClientSampleId :

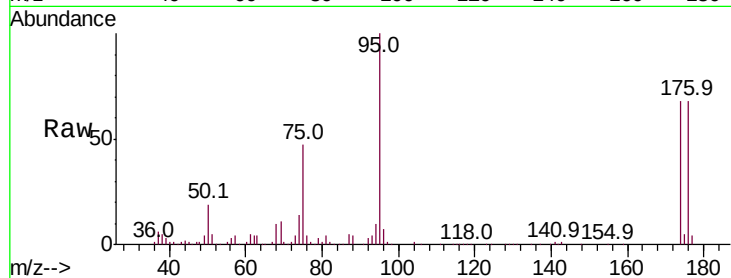
Tot Ion: 95 Resp: 146587

Ion Ratio Lower Upper

95 100

174 68.0 0.0 138.2

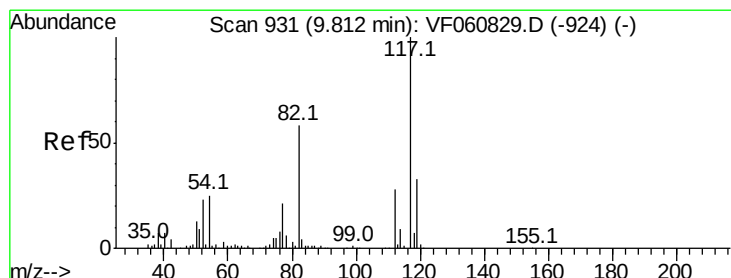
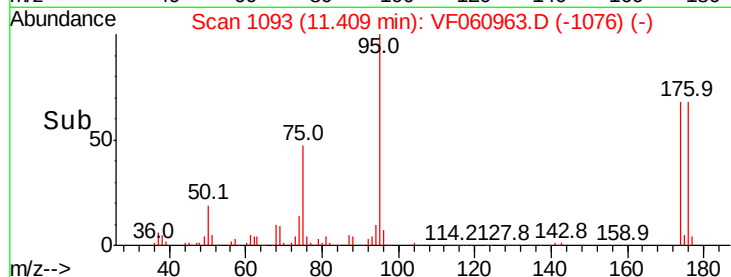
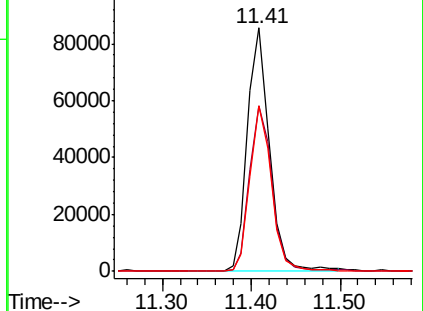
176 67.9 0.0 146.2



Abundance Ion 95.00 (94.70 to 95.70): VF060829.D (-1091) (-)

Ion 174.00 (173.70 to 174.70): VF060829.D (-1091) (-)

Ion 176.00 (175.70 to 176.70): VF060829.D (-1091) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 927

Delta R.T. -0.04 min

Lab File: VF060963.D

Acq: 10 Dec 2018 19:47

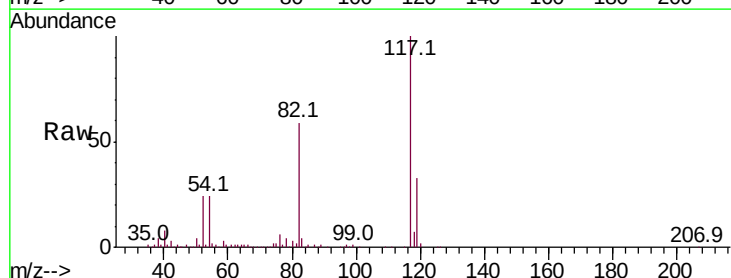
Tgt Ion: 117 Resp: 342975

Ion Ratio Lower Upper

117 100

82 58.9 46.6 69.8

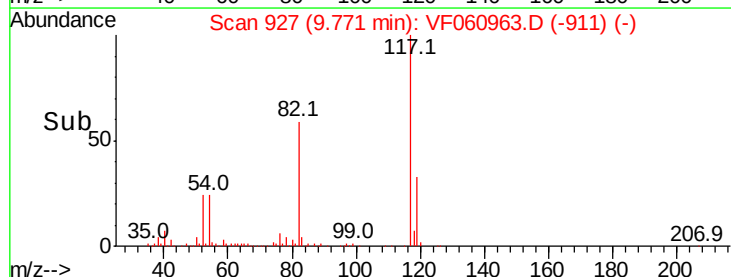
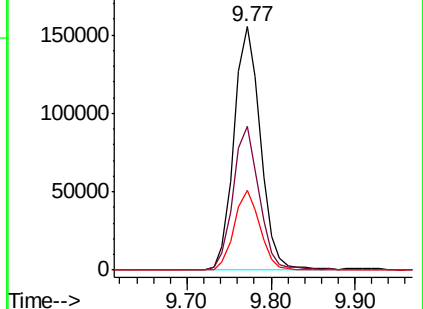
119 32.9 26.4 39.6

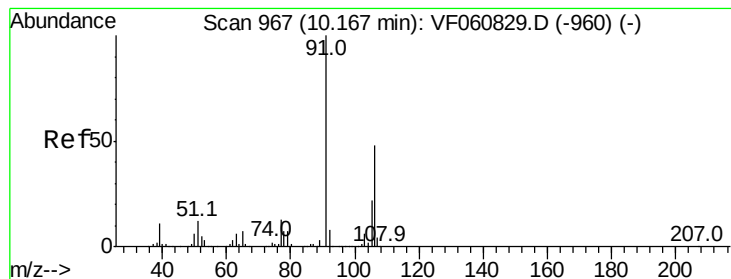


Abundance Ion 117.00 (116.70 to 117.70): VF060829.D (-924) (-)

Ion 82.00 (81.70 to 82.70): VF060829.D (-924) (-)

Ion 119.00 (118.70 to 119.70): VF060829.D (-924) (-)





#68

m/p-Xylenes

Concen: 1.231 ug/l

RT: 10.13 min Scan# 963

Delta R.T. -0.04 min

Lab File: VF060963.D

Acq: 10 Dec 2018 19:47

Instrument :

MSVOA_F

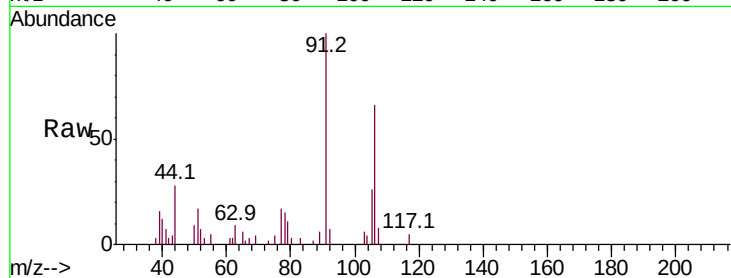
ClientSampleId :

Tot Ion:106 Resp: 5498

Ion Ratio Lower Upper

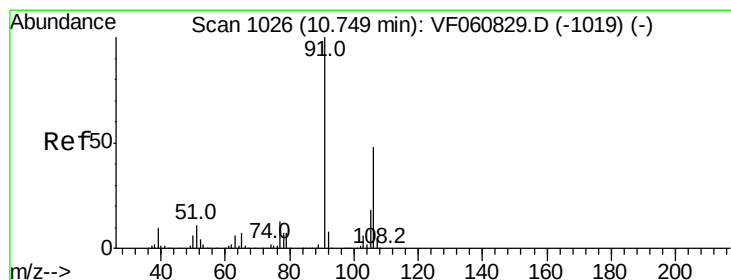
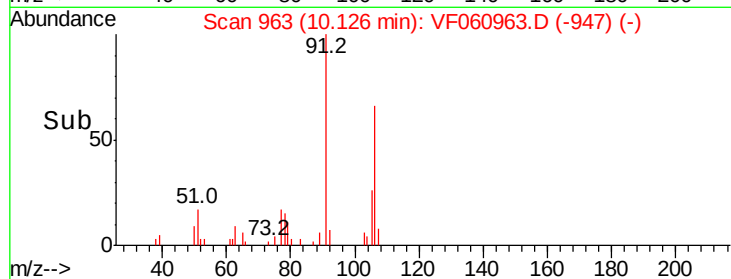
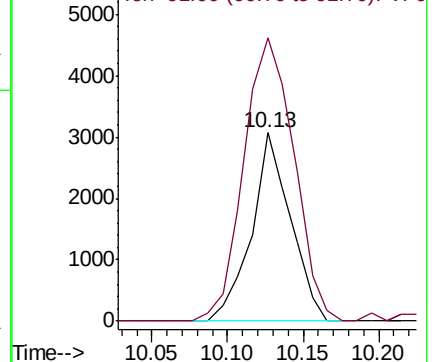
106 100

91 150.5 166.7 250.1#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



#69

o-Xylene

Concen: 1.228 ug/l

RT: 10.71 min Scan# 1022

Delta R.T. -0.04 min

Lab File: VF060963.D

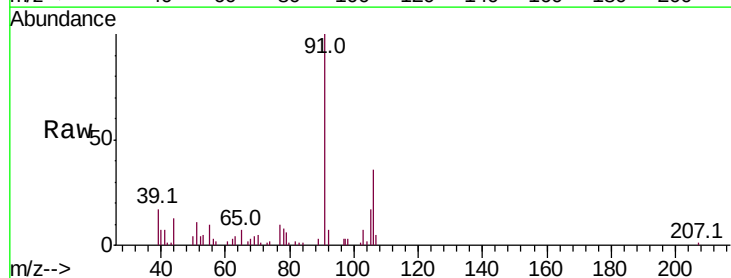
Acq: 10 Dec 2018 19:47

Tgt Ion:106 Resp: 6049

Ion Ratio Lower Upper

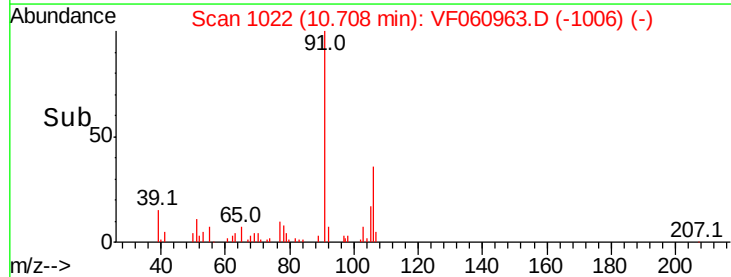
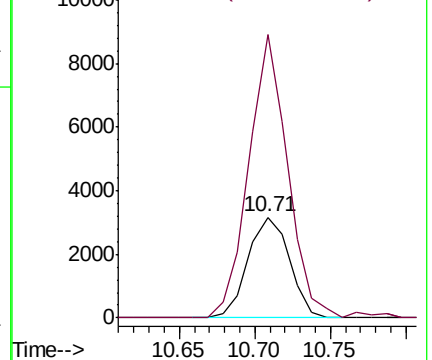
106 100

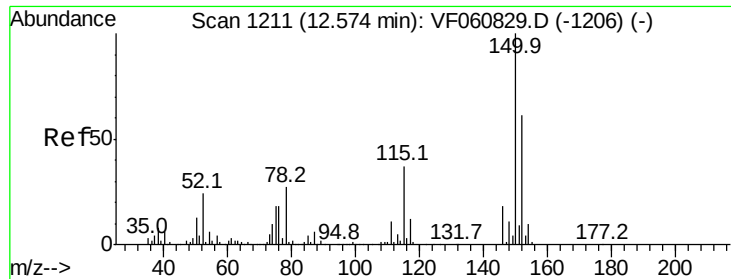
91 280.9 104.8 314.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



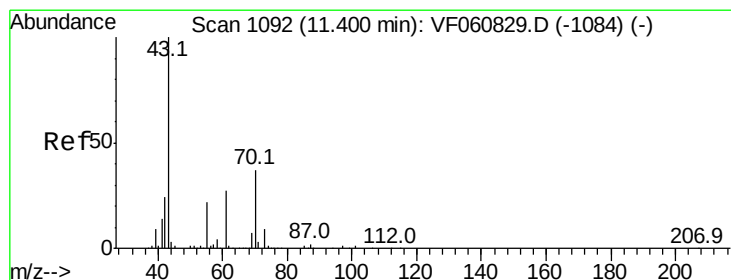
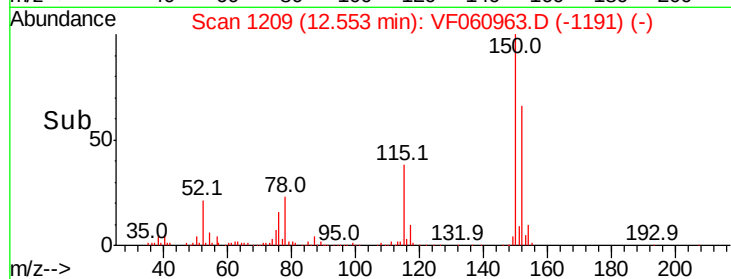
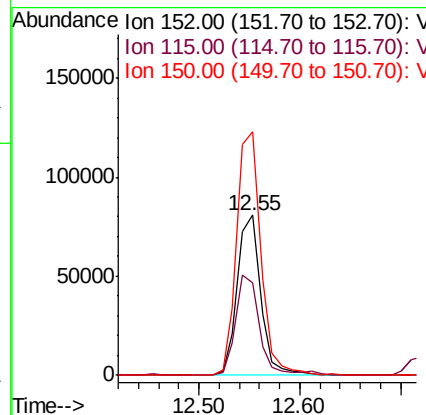
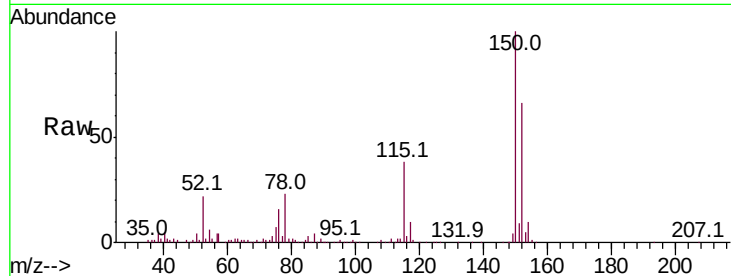


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.02 min
Lab File: VF060963.D
Acq: 10 Dec 2018 19:47

Instrument :
MSVOA_F
ClientSampleId :

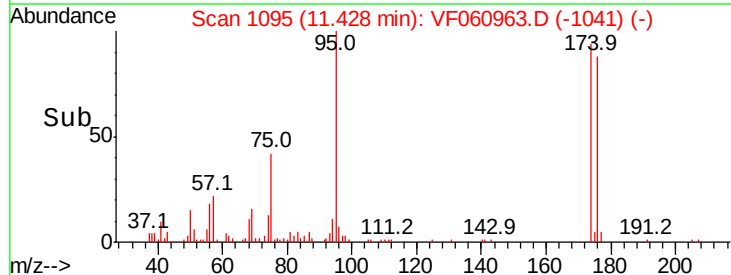
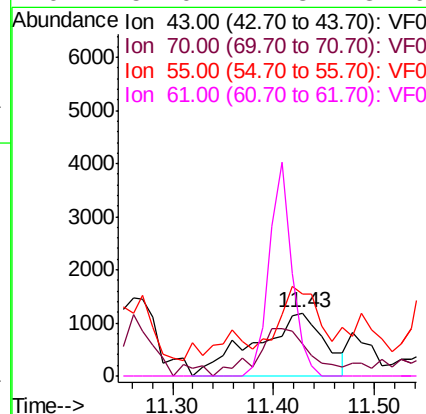
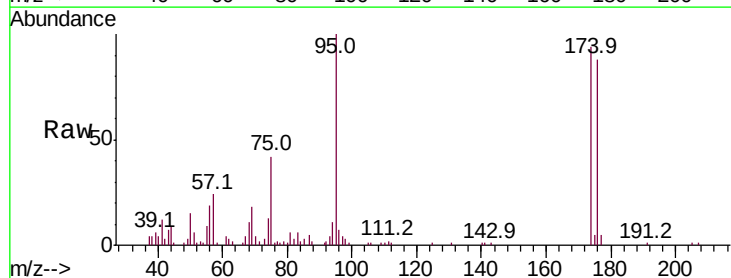
Tot Ion	Ratio	Lower	Upper
152	100		
115	57.8	30.1	90.5
150	152.0	0.0	327.6

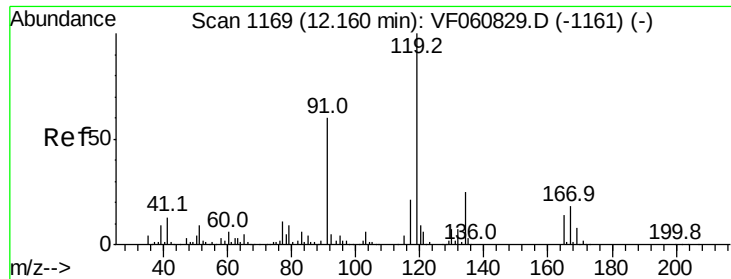


#74

N-amil acetate
Concen: 2.352 ug/l
RT: 11.43 min Scan# 1095
Delta R.T. 0.03 min
Lab File: VF060963.D
Acq: 10 Dec 2018 19:47

Tgt Ion	Ratio	Lower	Upper
43	100		
70	51.9	29.6	44.4#
55	130.0	17.2	25.8#
61	51.0	21.8	32.6#

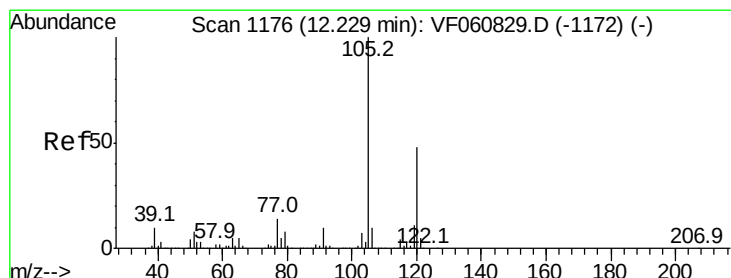
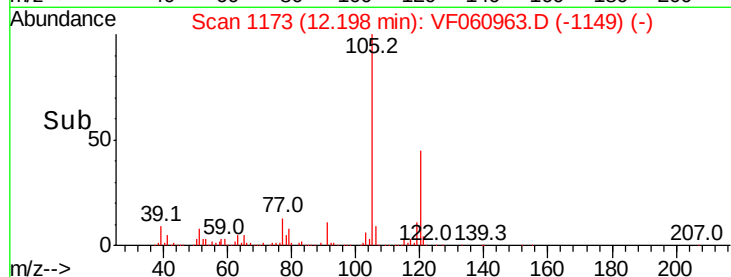
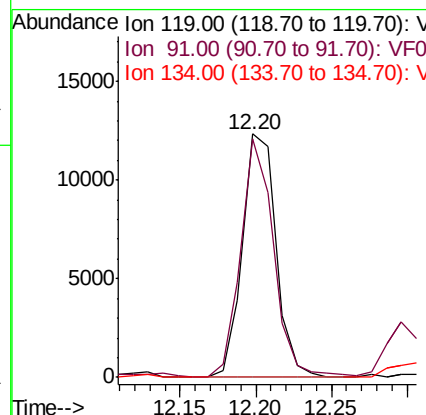
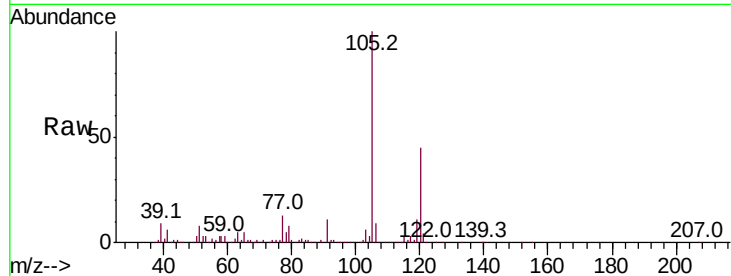




#83
 tert-Butylbenzene
 Concen: 2.214 ug/l
 RT: 12.20 min Scan# 1173
 Delta R.T. 0.04 min
 Lab File: VF060963.D
 Acq: 10 Dec 2018 19:47

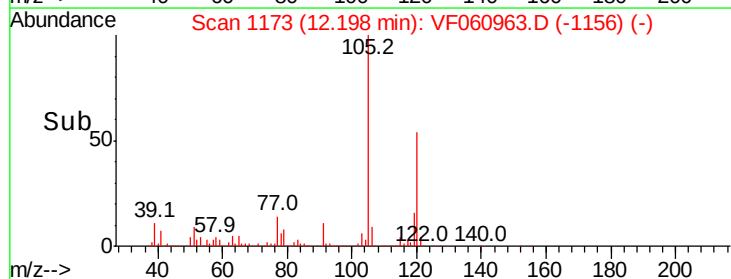
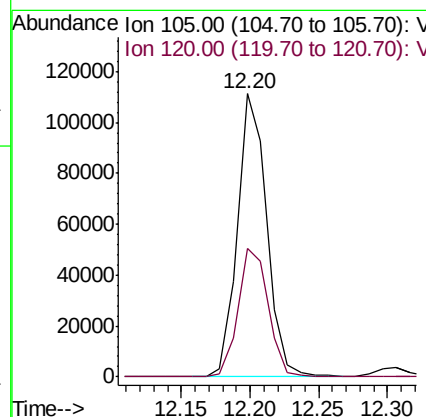
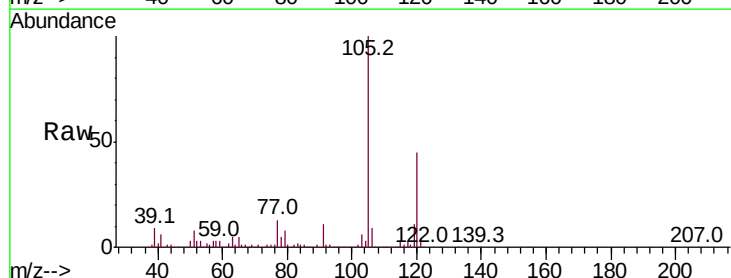
Instrument :
 MSVOA_F
 ClientSampleId :

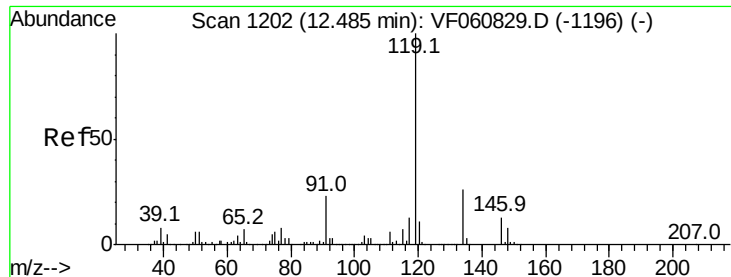
Tot Ion:119 Resp: 19103
 Ion Ratio Lower Upper
 119 100
 91 98.0 30.1 90.3#
 134 0.0 12.6 37.8#



#84
 1,2,4-Trimethylbenzene
 Concen: 19.476 ug/l
 RT: 12.20 min Scan# 1173
 Delta R.T. -0.03 min
 Lab File: VF060963.D
 Acq: 10 Dec 2018 19:47

Tgt Ion:105 Resp: 164658
 Ion Ratio Lower Upper
 105 100
 120 45.2 23.8 71.5





#86

p-Isopropyltoluene

Concen: 1.746 ug/l

RT: 12.45 min Scan# 1199

Delta R.T. -0.03 min

Lab File: VF060963.D

Acq: 10 Dec 2018 19:47

Instrument :

MSVOA_F

ClientSampleId :

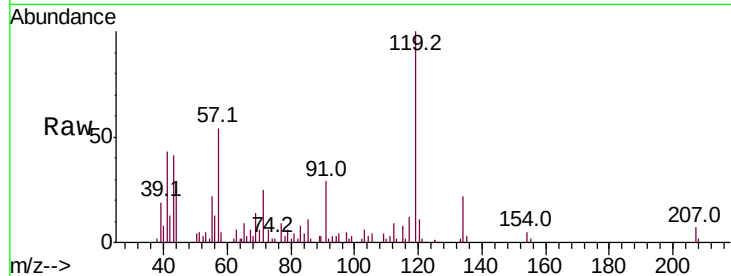
Tot Ion:119 Resp: 17289

Ion Ratio Lower Upper

119 100

134 22.0 12.9 38.6

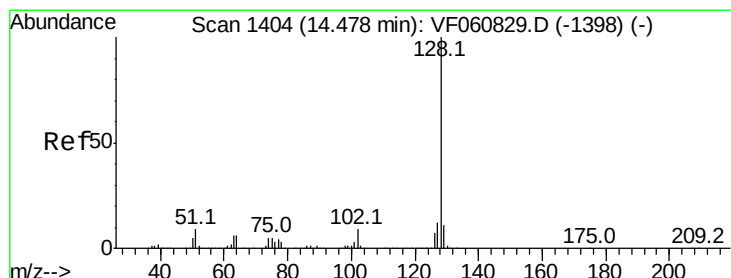
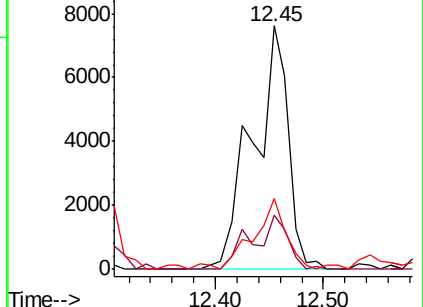
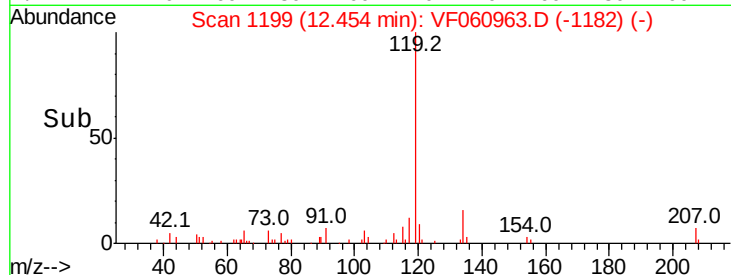
91 29.3 11.8 35.3



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#95

Naphthalene

Concen: 6.088 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. -0.02 min

Lab File: VF060963.D

Acq: 10 Dec 2018 19:47

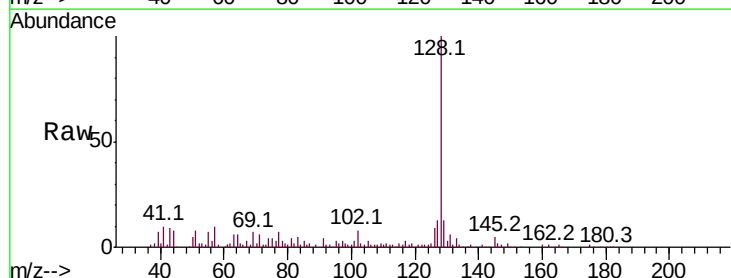
Tgt Ion:128 Resp: 51196

Ion Ratio Lower Upper

128 100

127 13.2 9.9 14.9

129 12.5 9.1 13.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

