

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF112718\
 Data File : VF060842.D
 Acq On : 27 Nov 2018 16:56
 Operator : VA/AP
 Sample : J6074-05RE
 Misc : 6.53g/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 003-WC-NY2

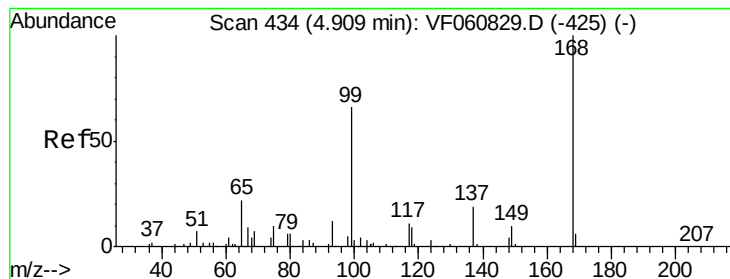
Quant Time: Nov 28 03:09:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.91	168	57029	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.64	114	84835	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.81	117	55696	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.58	152	16793	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.88	65	21183	31.53	ug/l	0.00
Spiked Amount			Recovery	=	63.06%	
35) Dibromofluoromethane	4.15	113	30419	45.20	ug/l	0.00
Spiked Amount			Recovery	=	90.40%	
50) Toluene-d8	7.59	98	81900	41.31	ug/l	0.00
Spiked Amount			Recovery	=	82.62%	
62) 4-Bromofluorobenzene	11.44	95	24033	26.67	ug/l	0.00
Spiked Amount			Recovery	=	53.34%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	2.08	56	804	30.813	ug/l	98
14) Allyl chloride	2.16	41	983	1.747	ug/l #	60
15) Acrylonitrile	2.95	53	393	6.365	ug/l #	49
16) Acetone	2.26	43	1356	10.945	ug/l	99
20) Methylene Chloride	2.21	84	2108	4.638	ug/l #	87
25) 2-Butanone	4.37	43	568	2.651	ug/l #	57
29) Tetrahydrofuran	4.13	42	617	6.793	ug/l #	54
37) Ethyl Acetate	4.09	43	906	2.369	ug/l #	14
41) Methacrylonitrile	4.74	41	172	Below Cal	#	54
43) Isopropyl Acetate	7.02	43	525	Below Cal	#	49
51) 4-Methyl-2-Pentanone	8.30	43	1228	3.483	ug/l #	38
59) 2-Hexanone	9.52	43	850	3.436	ug/l #	27
74) N-amyl acetate	11.37	43	363	1.185	ug/l #	45
81) trans-1,4-Dichloro-2-buten	11.83	75	126	1.620	ug/l #	16
92) 1,2-Dibromo-3-Chloropropan	13.69	75	78	1.847	ug/l #	1
95) Naphthalene	14.48	128	2059	Below Cal	#	83

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.91 min Scan# 434

Delta R.T. 0.00 min

Lab File: VF060842.D

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Instrument :

MSVOA_F

ClientSampleId :

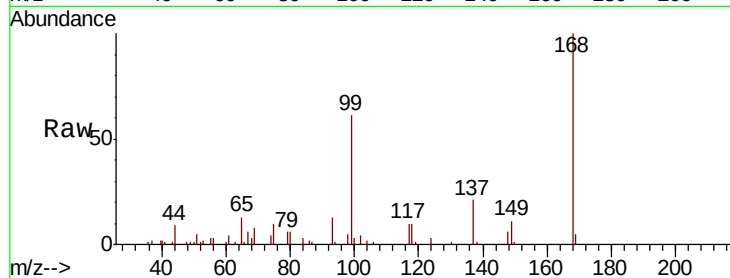
003-WC-NY2

Tot Ion:168 Resp: 57029

Ion Ratio Lower Upper

168 100

99 60.5 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.91

20000

15000

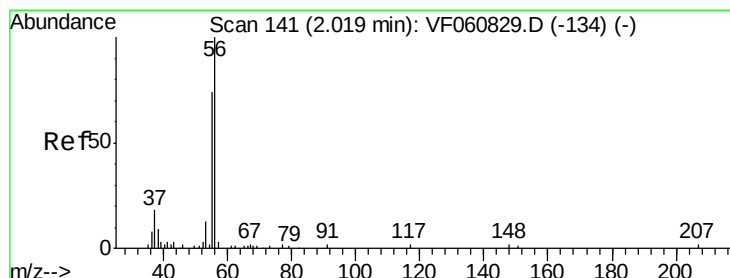
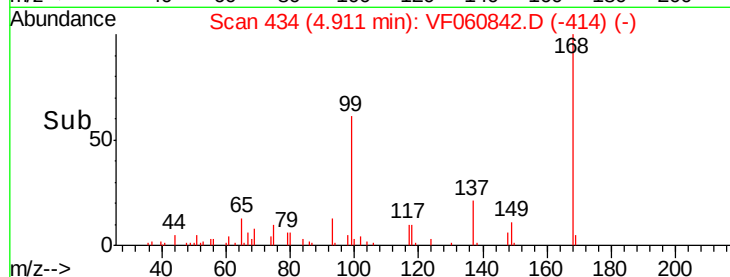
10000

5000

0

4.80 4.90 5.00

Time-->



#13

Acrolein

Concen: 30.813 ug/l

RT: 2.08 min Scan# 147

Delta R.T. 0.06 min

Lab File: VF060842.D

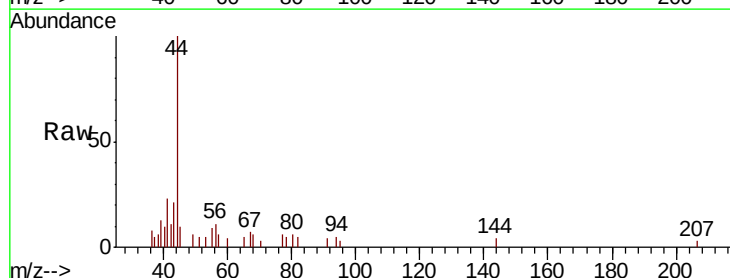
Acq: 27 Nov 2018 16:56

Tgt Ion: 56 Resp: 804

Ion Ratio Lower Upper

56 100

55 78.3 61.2 91.8



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

2.08

600

500

400

300

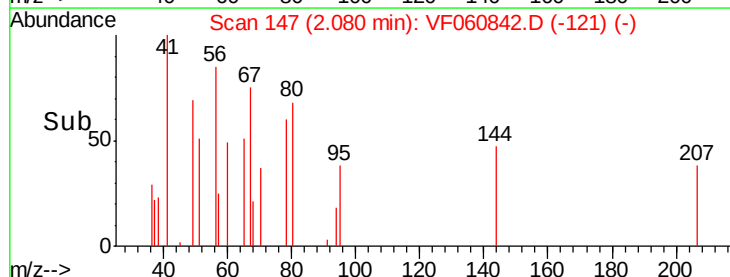
200

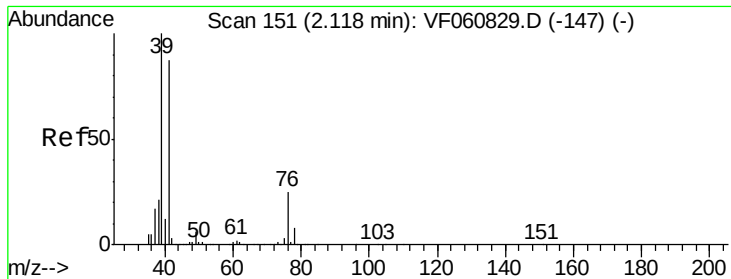
100

0

2.05 2.10 2.15

Time-->

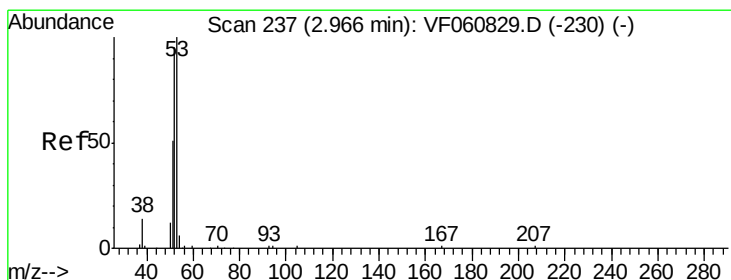
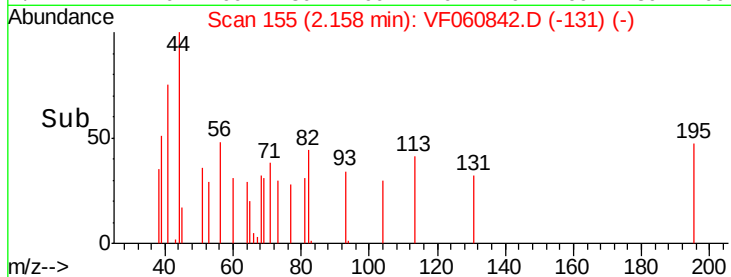
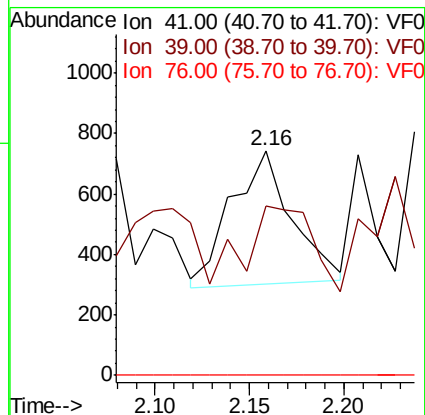
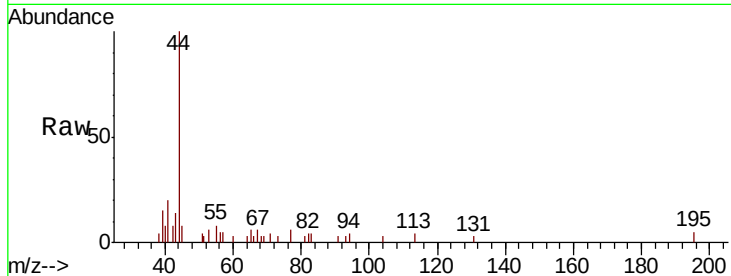




#14
Allvl chloride
Concen: 1.747 ug/l
RT: 2.16 min Scan# 155
Delta R.T. 0.04 min
Lab File: VF060842.D
Acq: 27 Nov 2018 16:56

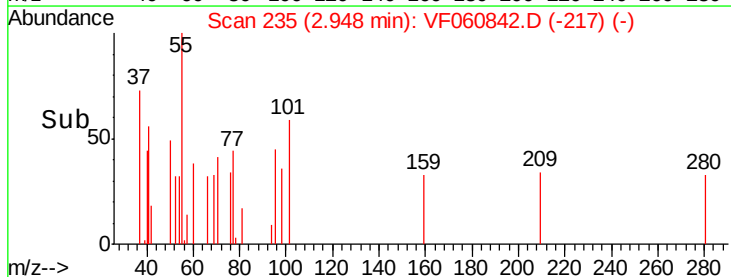
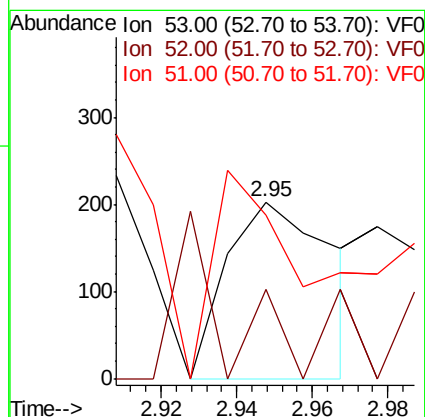
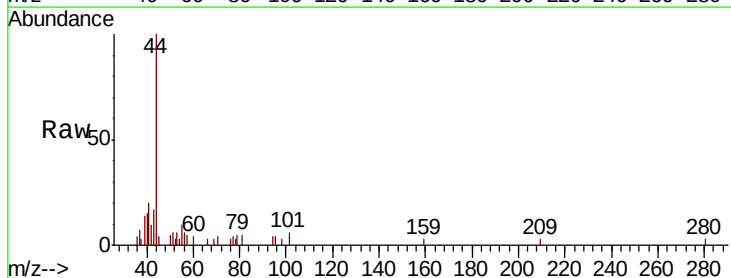
Instrument :
MSVOA_F
ClientSampled :
003-WC-NY2

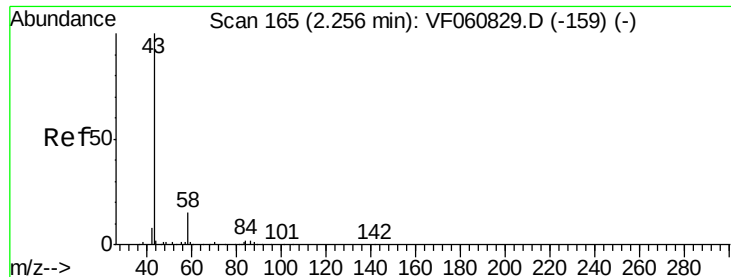
Tot Ion: 41 Resp: 983
Ion Ratio Lower Upper
41 100
39 75.5 91.7 137.5#
76 0.0 23.5 35.3#



#15
Acrylonitrile
Concen: 6.365 ug/l
RT: 2.95 min Scan# 235
Delta R.T. -0.02 min
Lab File: VF060842.D
Acq: 27 Nov 2018 16:56

Tgt Ion: 53 Resp: 393
Ion Ratio Lower Upper
53 100
52 50.2 76.5 114.7#
51 92.6 40.7 61.1#





#16

Acetone

Concen: 10.945 ug/l

RT: 2.26 min Scan# 165

Delta R.T. 0.00 min

Lab File: VF060842.D

Acq: 27 Nov 2018 16:56

Instrument :

MSVOA_F

ClientSampleId :

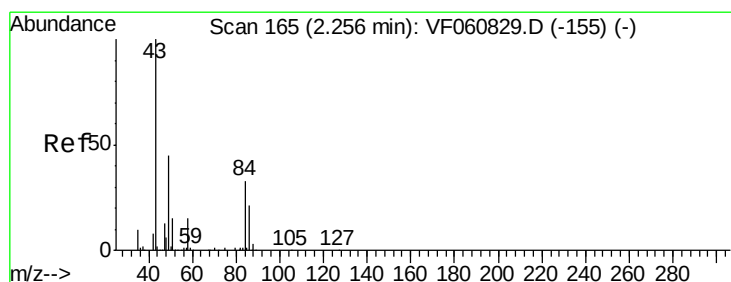
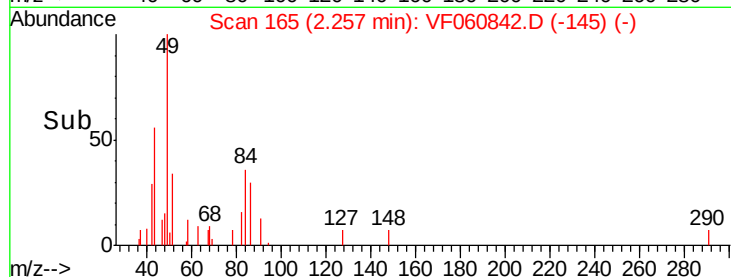
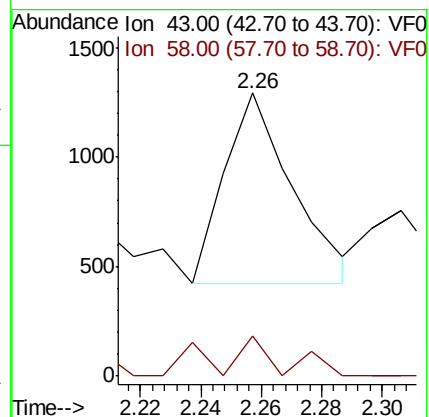
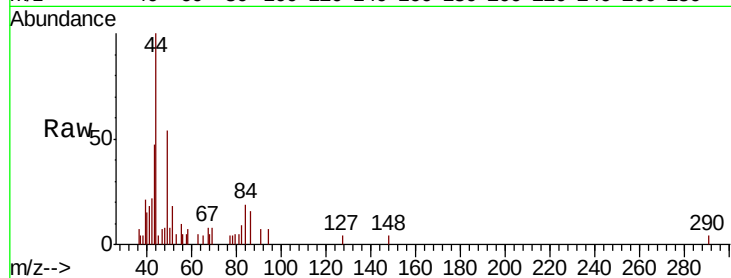
003-WC-NY2

Tot Ion: 43 Resp: 1356

Ion Ratio Lower Upper

43 100

58 14.1 11.4 17.2



#20

Methylene Chloride

Concen: 4.638 ug/l

RT: 2.21 min Scan# 160

Delta R.T. -0.05 min

Lab File: VF060842.D

Acq: 27 Nov 2018 16:56

Tgt Ion: 84 Resp: 2108

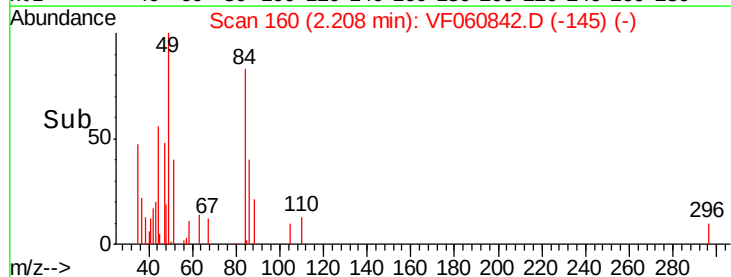
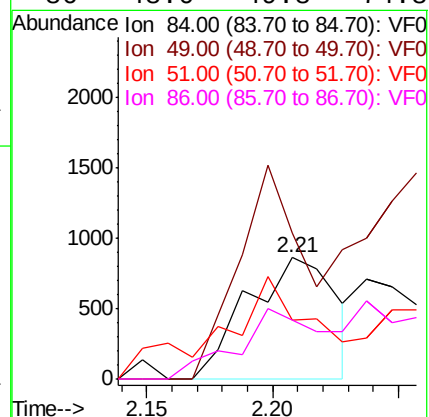
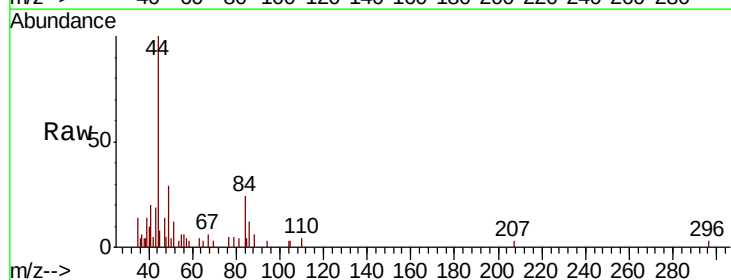
Ion Ratio Lower Upper

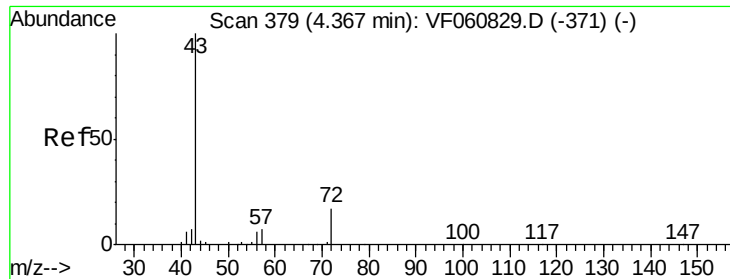
84 100

49 120.6 111.3 166.9

51 48.7 38.0 57.0

86 48.0 49.8 74.8#





#25

2-Butanone

Concen: 2.651 ug/l

RT: 4.37 min Scan# 379

Delta R.T. 0.00 min

Lab File: VF060842.D

Acq: 27 Nov 2018 16:56

Instrument :

MSVOA_F

ClientSampleId :

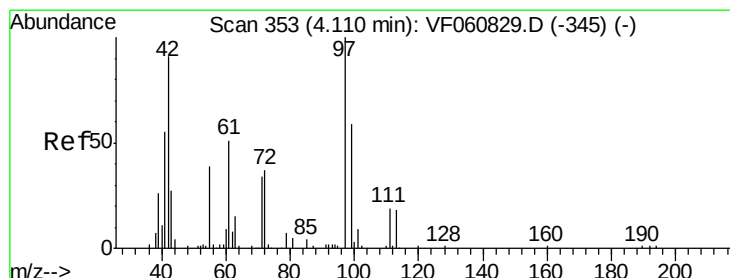
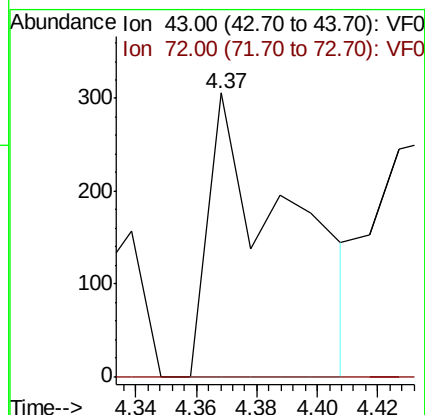
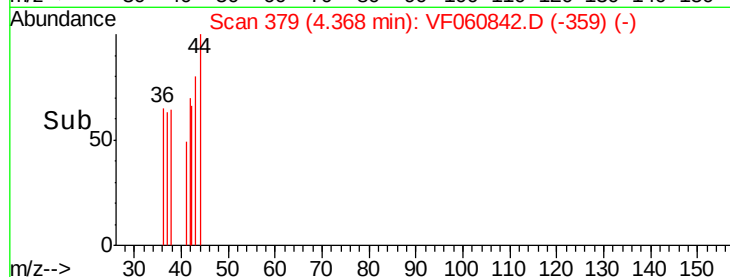
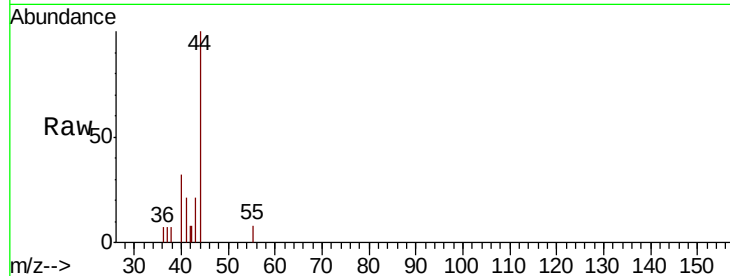
003-WC-NY2

Tot Ion: 43 Resp: 568

Ion Ratio Lower Upper

43 100

72 0.0 15.4 23.2#



#29

Tetrahydrofuran

Concen: 6.793 ug/l

RT: 4.13 min Scan# 355

Delta R.T. 0.02 min

Lab File: VF060842.D

Acq: 27 Nov 2018 16:56

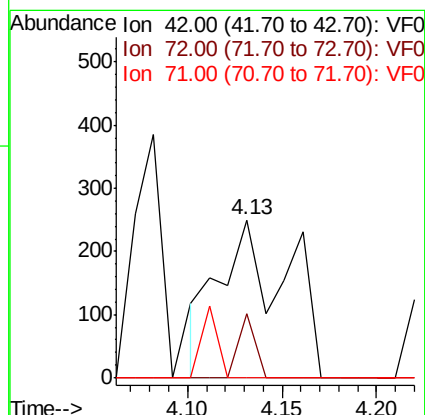
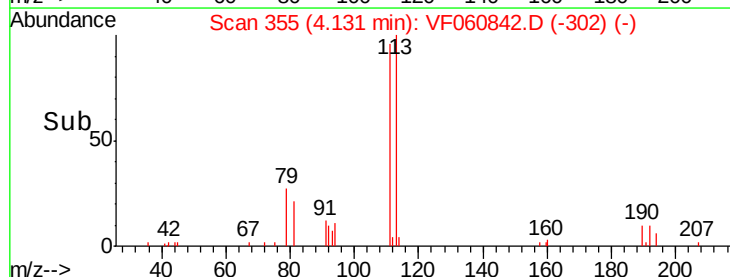
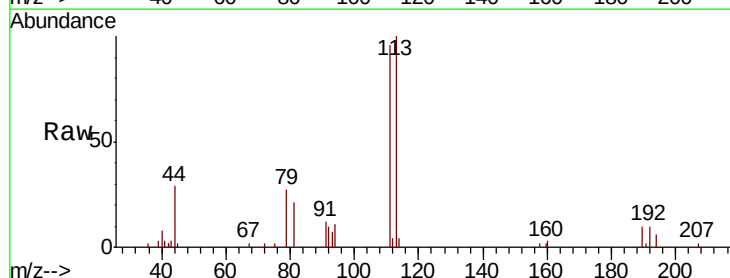
Tgt Ion: 42 Resp: 617

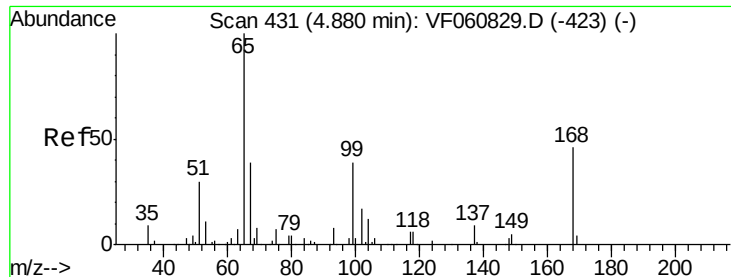
Ion Ratio Lower Upper

42 100

72 9.7 31.9 47.9#

71 10.9 28.7 43.1#

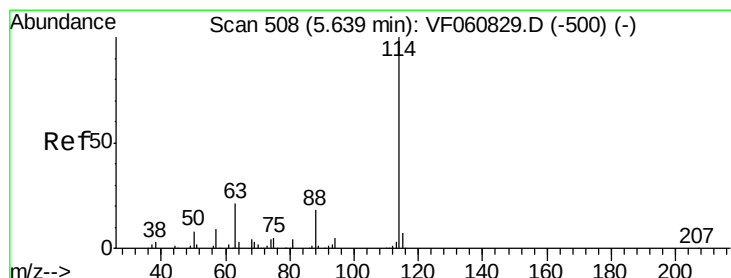
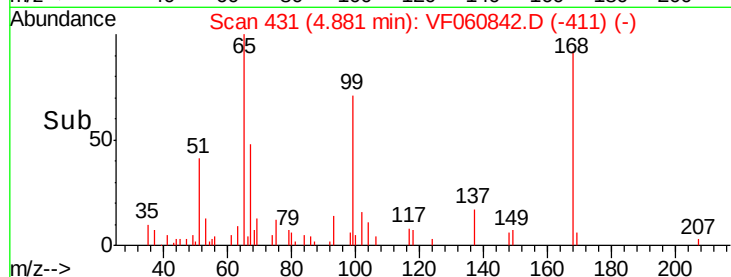
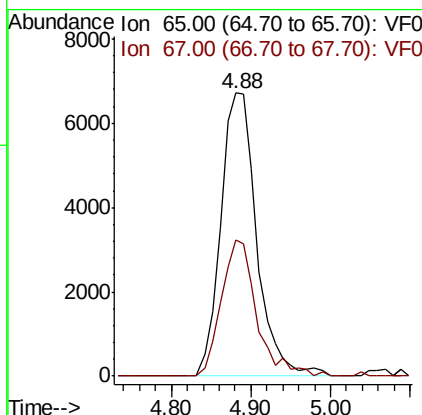
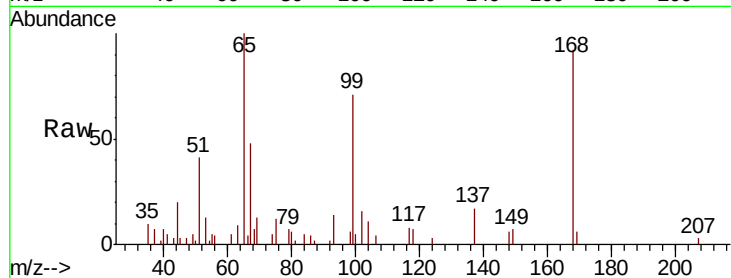




#33
 1,2-Dichloroethane-d4
 Concen: 31.531 ug/l
 RT: 4.88 min Scan# 431
 Delta R.T. 0.00 min
 Lab File: VF060842.D
 Acq: 27 Nov 2018 16:56

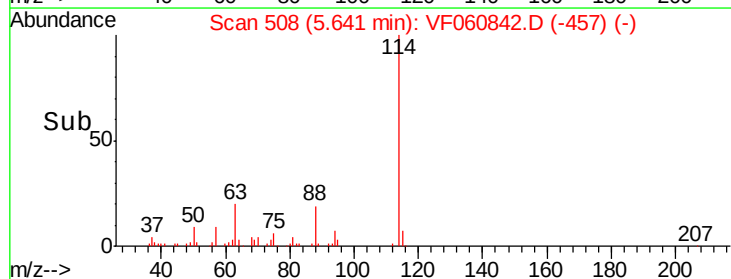
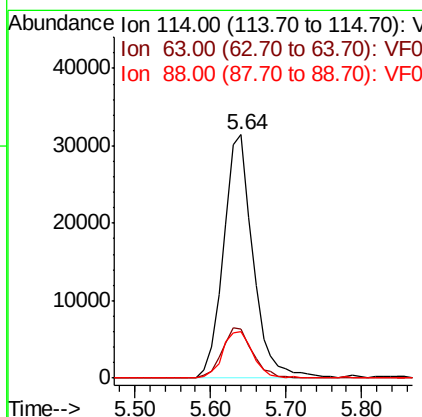
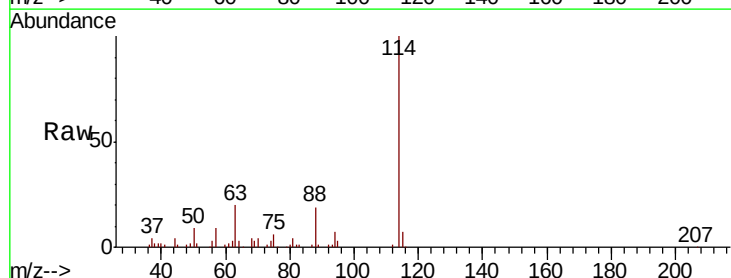
Instrument :
 MSVOA_F
 ClientSampleId :
 003-WC-NY2

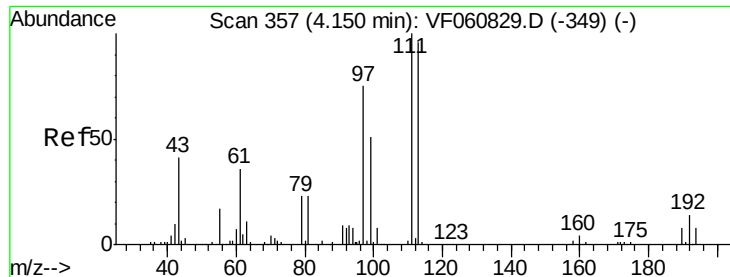
Tot Ion: 65 Resp: 21183
 Ion Ratio Lower Upper
 65 100
 67 47.9 0.0 96.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.64 min Scan# 508
 Delta R.T. 0.00 min
 Lab File: VF060842.D
 Acq: 27 Nov 2018 16:56

Tgt Ion: 114 Resp: 84835
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 41.6
 88 19.2 0.0 36.6

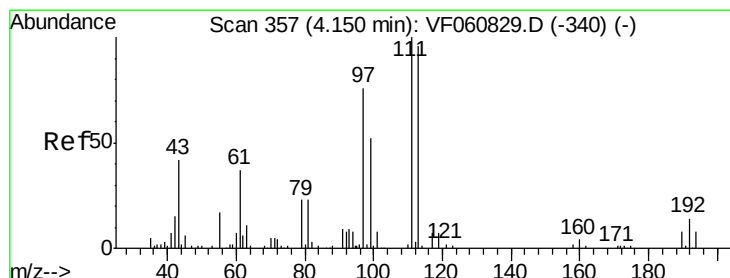
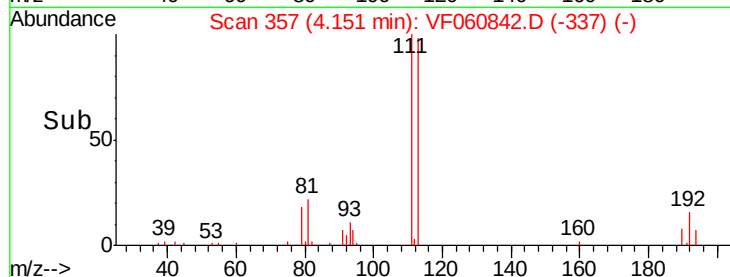
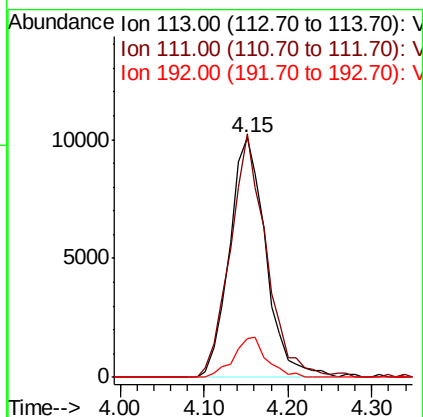
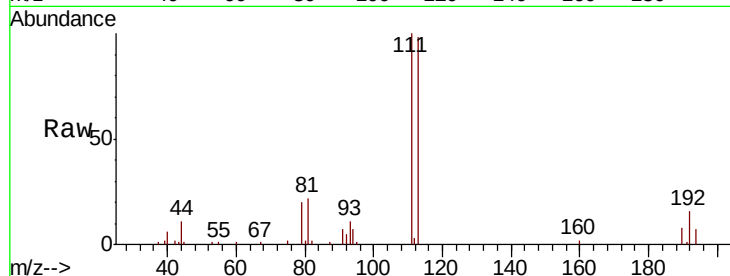




#35
Dibromofluoromethane
Concen: 45.198 ug/l
RT: 4.15 min Scan# 357
Delta R.T. 0.00 min
Lab File: VF060842.D
Acq: 27 Nov 2018 16:56

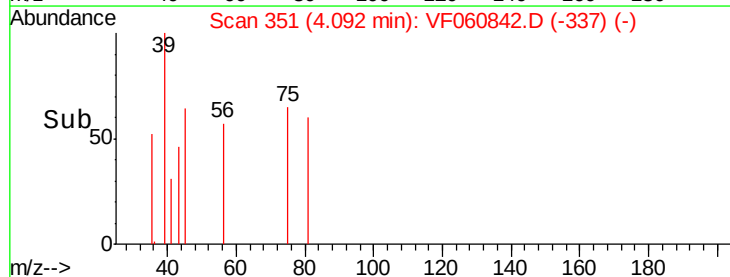
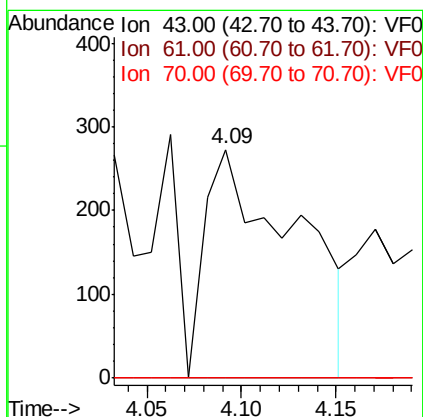
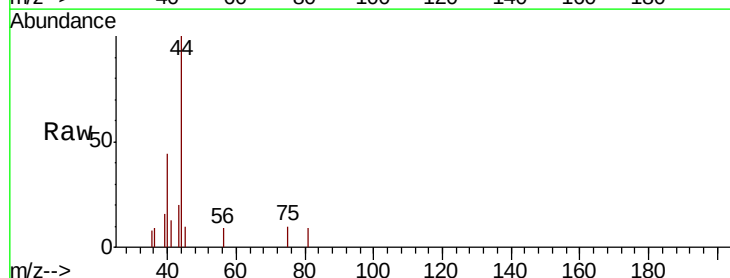
Instrument :
MSVOA_F
ClientSampleId :
003-WC-NY2

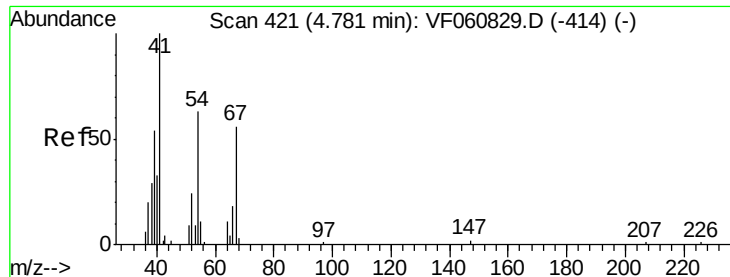
Tot Ion:113 Resp: 30419
Ion Ratio Lower Upper
113 100
111 101.7 83.0 124.6
192 16.4 12.3 18.5



#37
Ethyl Acetate
Concen: 2.369 ug/l
RT: 4.09 min Scan# 351
Delta R.T. -0.06 min
Lab File: VF060842.D
Acq: 27 Nov 2018 16:56

Tgt Ion: 43 Resp: 906
Ion Ratio Lower Upper
43 100
61 0.0 68.6 103.0#
70 0.0 9.0 13.4#

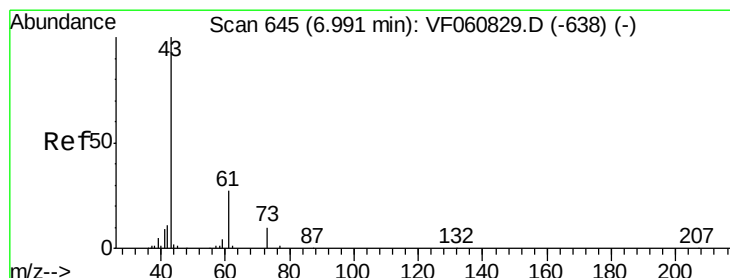
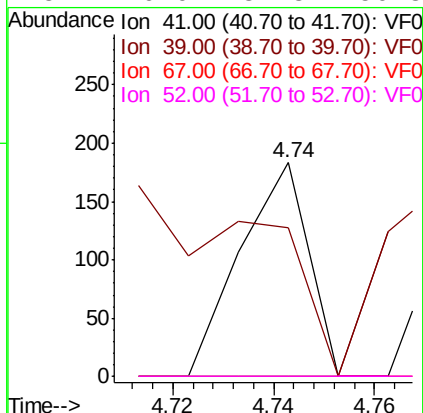
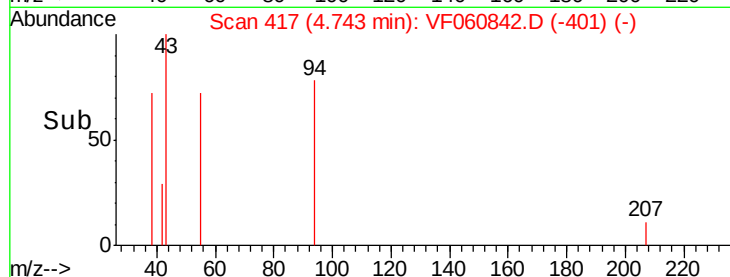
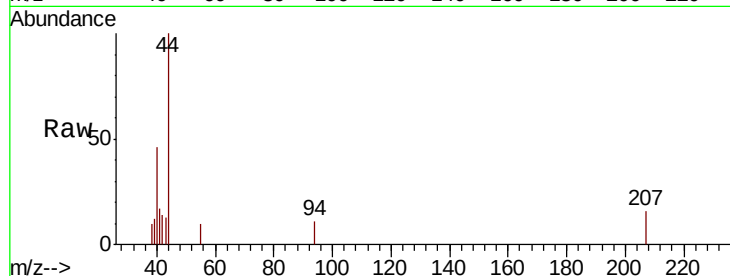




#41
Methacrylonitrile
Concen: Below Cal
RT: 4.74 min Scan# 417
Delta R.T. -0.04 min
Lab File: VF060842.D
Acq: 27 Nov 2018 16:56

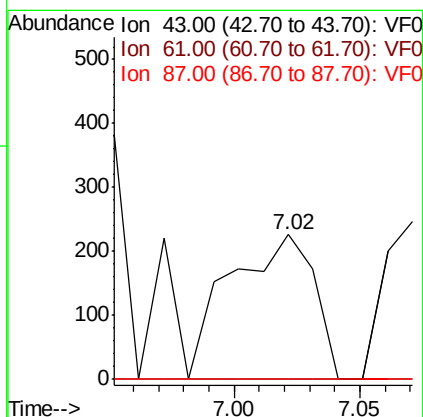
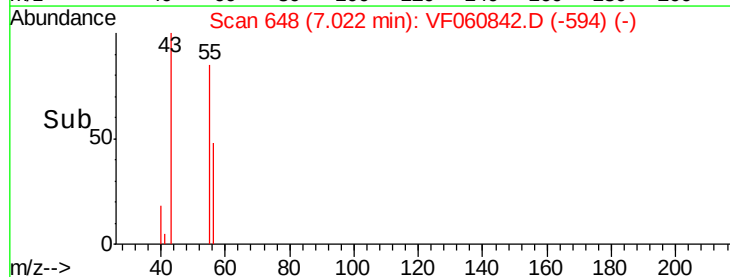
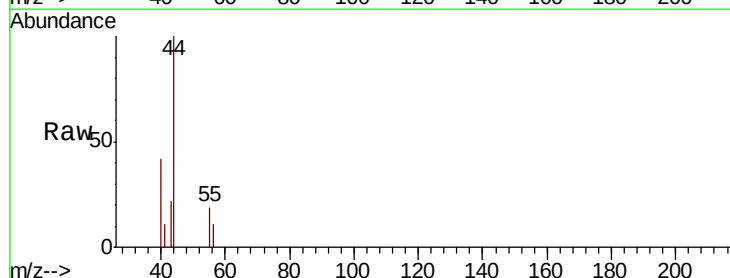
Instrument :
MSVOA_F
ClientSampled :
003-WC-NY2

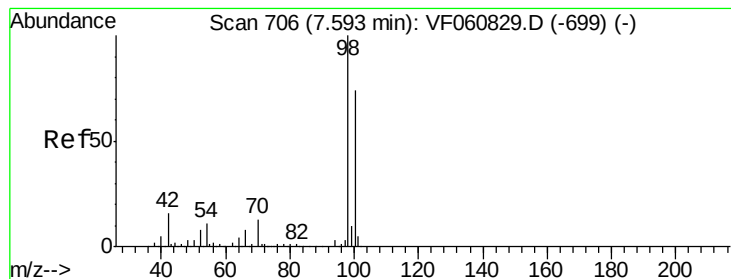
Tot Ion:	41	Resp:	172
Ion	Ratio	Lower	Upper
41	100		
39	69.9	53.0	79.6
67	0.0	43.8	65.6#
52	0.0	37.8	56.8#



#43
Isopropyl Acetate
Concen: Below Cal
RT: 7.02 min Scan# 648
Delta R.T. 0.03 min
Lab File: VF060842.D
Acq: 27 Nov 2018 16:56

Tgt Ion:	43	Resp:	525
Ion	Ratio	Lower	Upper
43	100		
61	0.0	21.4	32.0#
87	0.0	0.2	0.4#





#50

Toluene-d8

Concen: 41.311 ug/l

RT: 7.59 min Scan# 706

Delta R.T. 0.00 min

Lab File: VF060842.D

Acq: 27 Nov 2018 16:56

Instrument :

MSVOA_F

ClientSampleId :

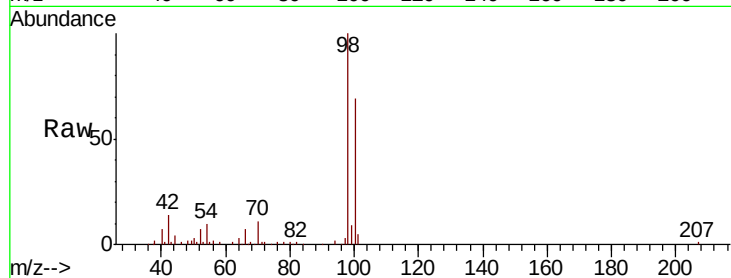
003-WC-NY2

Tot Ion: 98 Resp: 81900

Ion Ratio Lower Upper

98 100

100 69.3 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.59

40000

30000

20000

10000

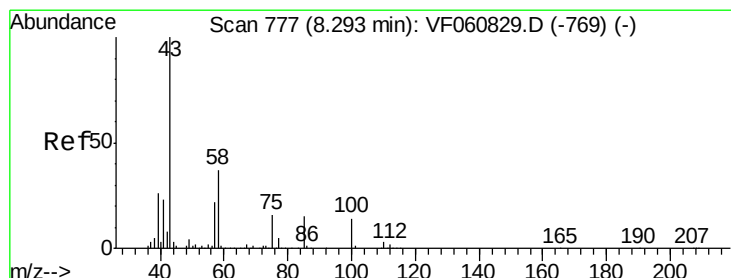
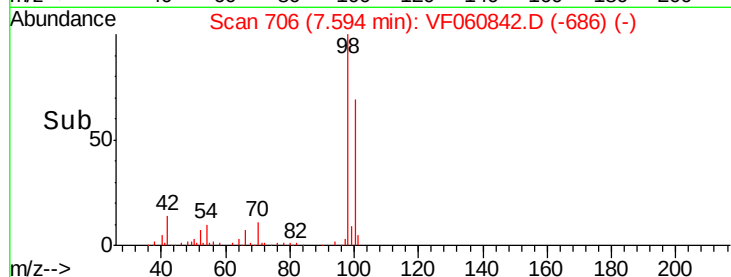
0

Time-->

7.50

7.60

7.70



#51

4-Methyl-2-Pentanone

Concen: 3.483 ug/l

RT: 8.30 min Scan# 778

Delta R.T. 0.01 min

Lab File: VF060842.D

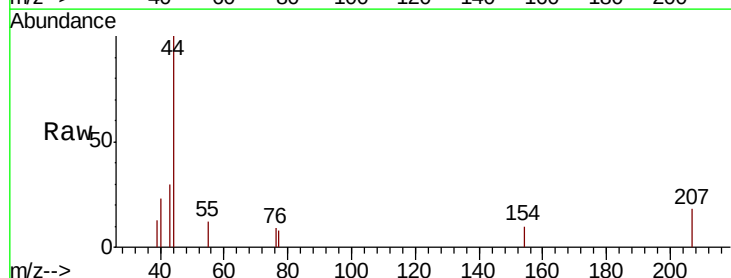
Acq: 27 Nov 2018 16:56

Tgt Ion: 43 Resp: 1228

Ion Ratio Lower Upper

43 100

58 0.0 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.30

400

300

200

100

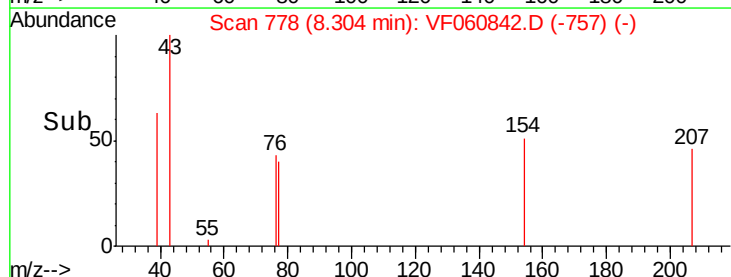
0

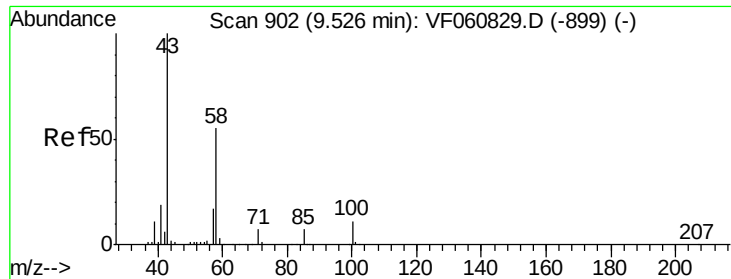
Time-->

8.25

8.30

8.35

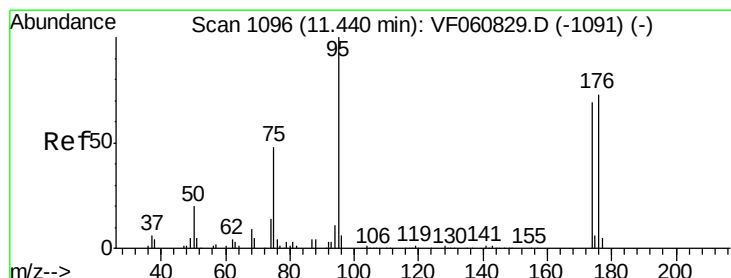
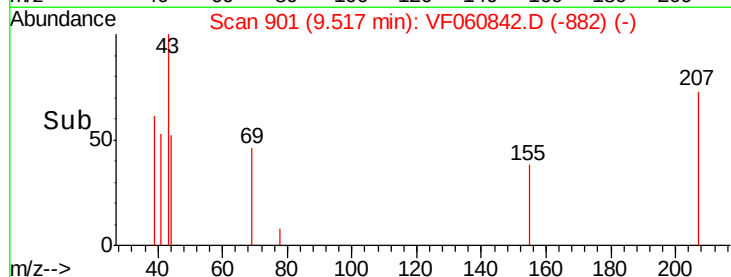
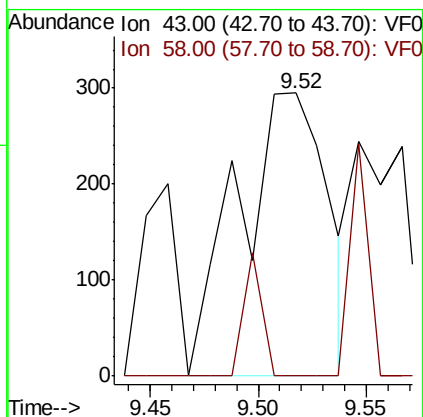
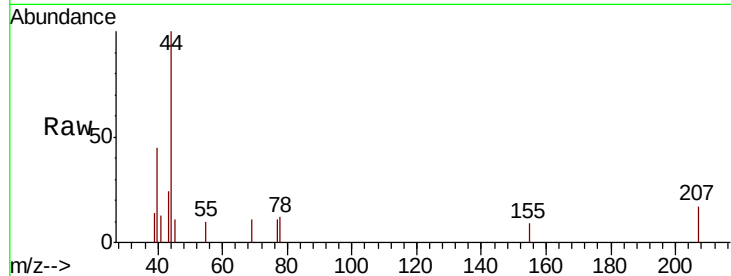




#59
2-Hexanone
Concen: 3.436 ug/l
RT: 9.52 min Scan# 901
Delta R.T. -0.01 min
Lab File: VF060842.D
Acq: 27 Nov 2018 16:56

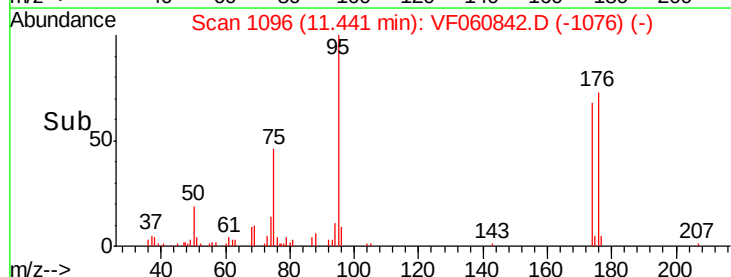
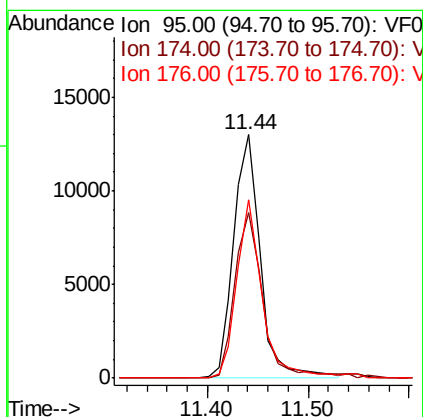
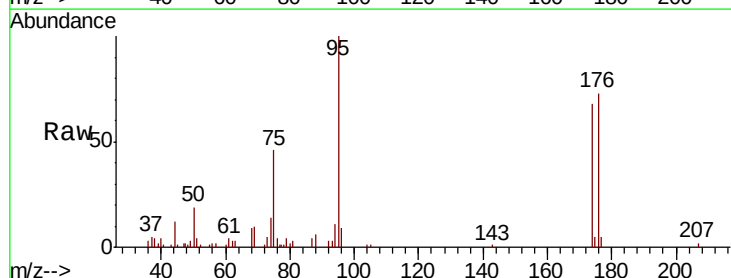
Instrument :
MSVOA_F
ClientSampleId :
003-WC-NY2

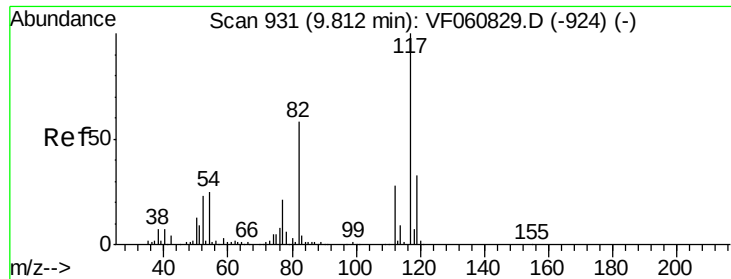
Tot Ion: 43 Resp: 850
Ion Ratio Lower Upper
43 100
58 0.0 25.6 76.6#



#62
4-Bromofluorobenzene
Concen: 26.673 ug/l
RT: 11.44 min Scan# 1096
Delta R.T. 0.00 min
Lab File: VF060842.D
Acq: 27 Nov 2018 16:56

Tgt Ion: 95 Resp: 24033
Ion Ratio Lower Upper
95 100
174 68.1 0.0 138.2
176 73.4 0.0 146.2

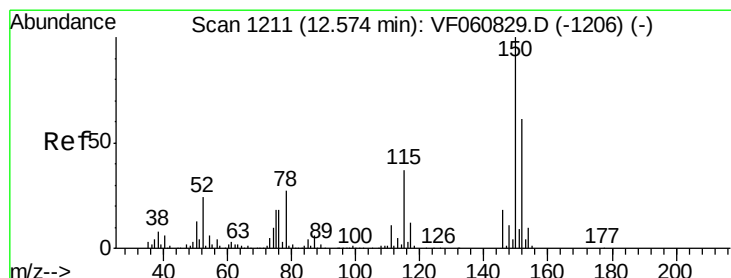
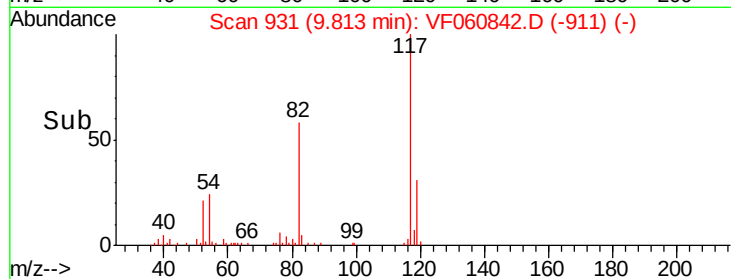
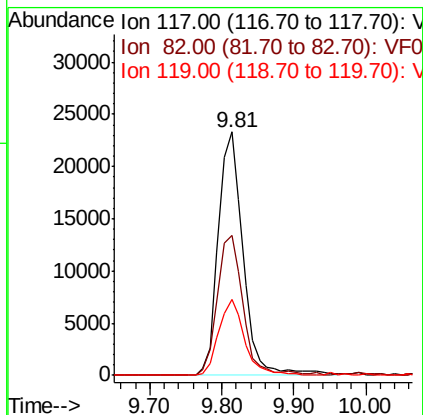
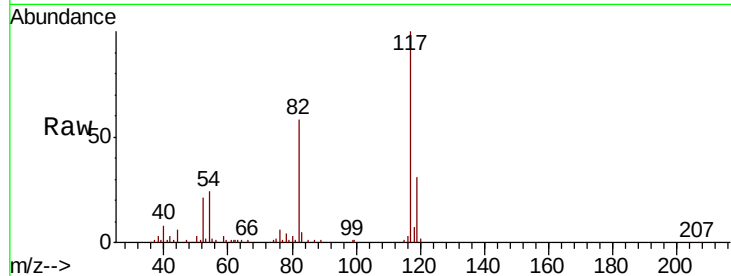




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.81 min Scan# 931
Delta R.T. 0.00 min
Lab File: VF060842.D
Acq: 27 Nov 2018 16:56

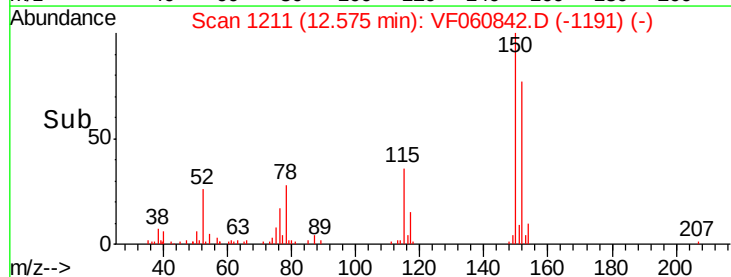
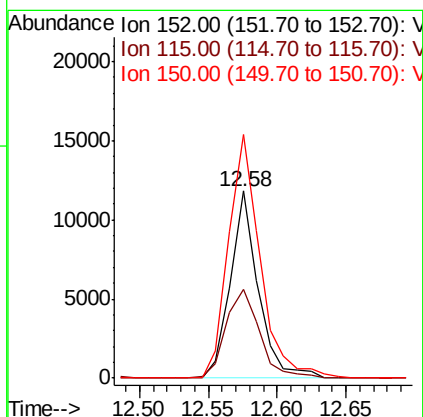
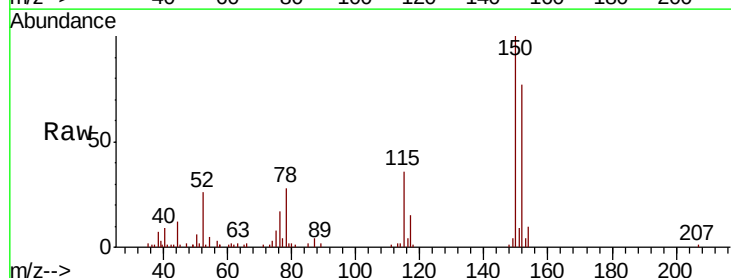
Instrument :
MSVOA_F
ClientSampleId :
003-WC-NY2

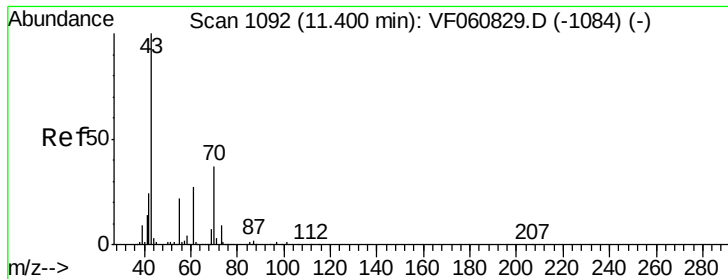
Tot Ion:117 Resp: 55696
Ion Ratio Lower Upper
117 100
82 57.5 46.6 69.8
119 31.1 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.58 min Scan# 1211
Delta R.T. 0.00 min
Lab File: VF060842.D
Acq: 27 Nov 2018 16:56

Tgt Ion:152 Resp: 16793
Ion Ratio Lower Upper
152 100
115 47.4 30.1 90.5
150 130.3 0.0 327.6





#74

N-amvl acetate

Concen: 1.185 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.03 min

Lab File: VF060842.D

Acq: 27 Nov 2018 16:56

Instrument :

MSVOA_F

ClientSampleId :

003-WC-NY2

Tot Ion: 43 Resp: 363

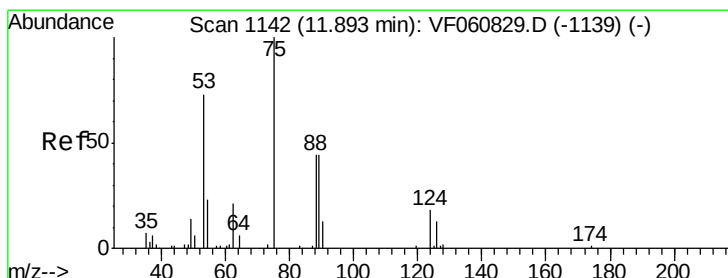
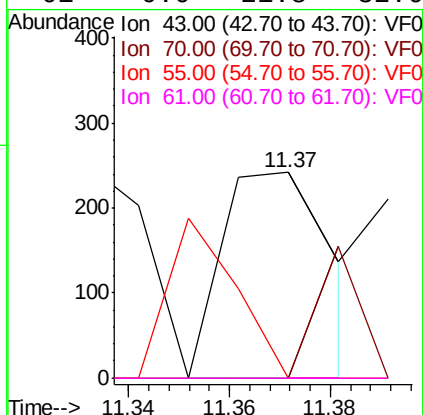
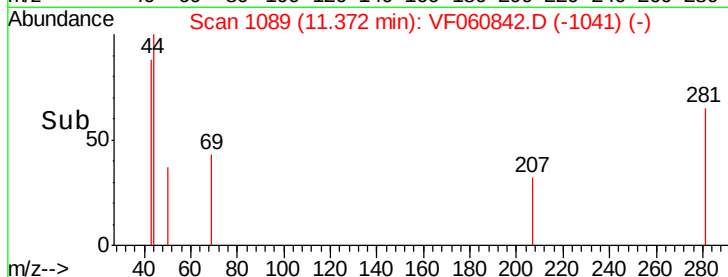
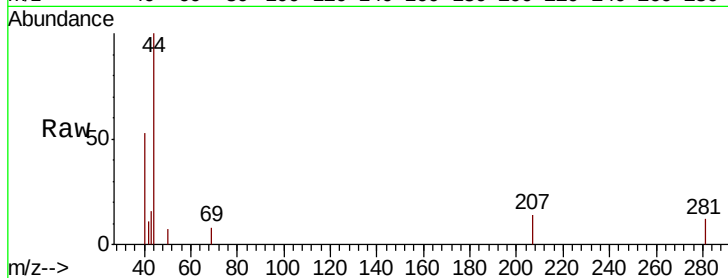
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 0.0 17.2 25.8#

61 0.0 21.8 32.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 1.620 ug/l

RT: 11.83 min Scan# 1135

Delta R.T. -0.07 min

Lab File: VF060842.D

Acq: 27 Nov 2018 16:56

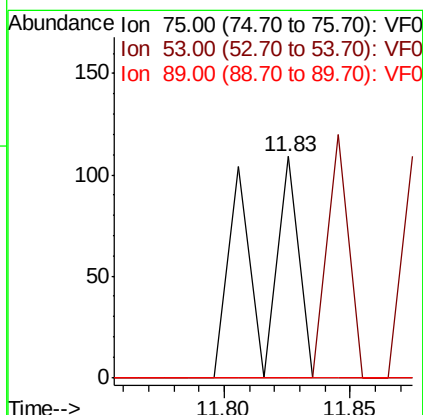
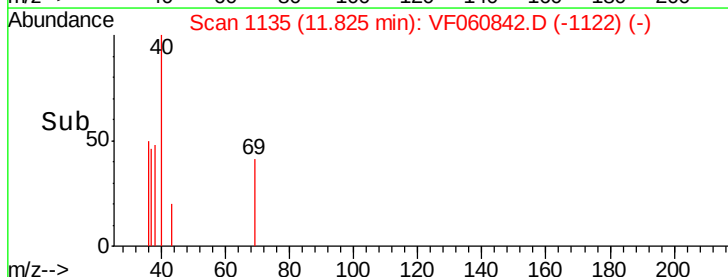
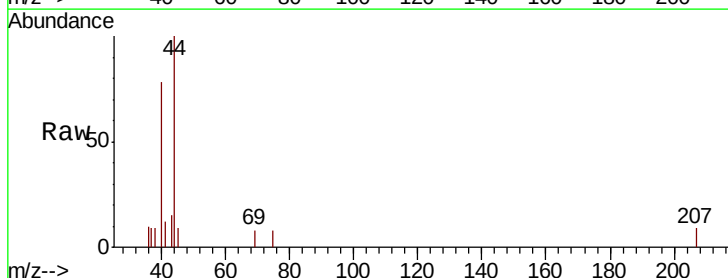
Tgt Ion: 75 Resp: 126

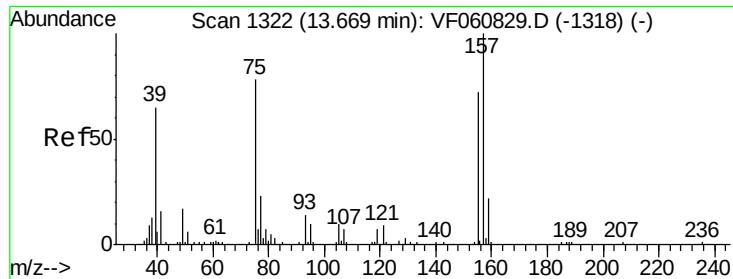
Ion Ratio Lower Upper

75 100

53 0.0 65.9 98.9#

89 0.0 38.8 58.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.847 ug/l

RT: 13.69 min Scan# 1324

Delta R.T. 0.02 min

Lab File: VF060842.D

Acq: 27 Nov 2018 16:56

Instrument :

MSVOA_F

ClientSampleId :

003-WC-NY2

Tot Ion: 75 Resp: 78

Ion Ratio Lower Upper

75 100

155 0.0 45.6 136.9#

157 0.0 63.8 191.5#

