

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082318\
 Data File : VF060055.D
 Acq On : 23 Aug 2018 16:09
 Operator : VA/AP
 Sample : J4278-07RE
 Misc : 7.14g/5mL/MSVOA F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 EO-01-082118-ARE

Quant Time: Aug 24 03:29:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F082118S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 04:43:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	254	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.77	114	73	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.95	117	80	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.64

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	7.72	98	231	141.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	283.78%	
62) 4-Bromofluorobenzene	0.00	95	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	

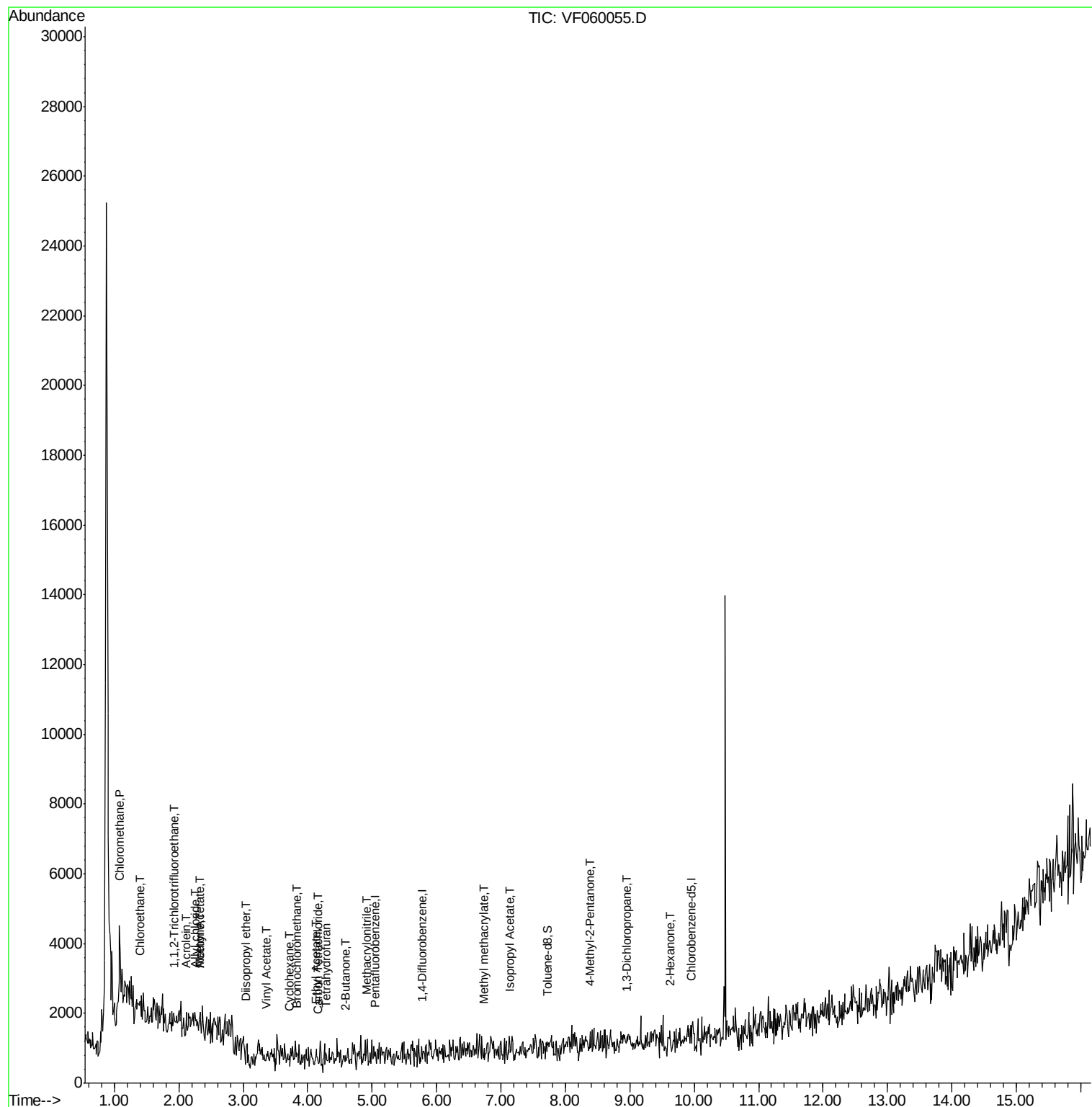
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.09	50	69	30.33	ug/l #	40
6) Chloroethane	1.40	64	437	533.95	ug/l #	45
9) 1,1,2-Trichlorotrifluoroet	1.92	101	99	45.17	ug/l #	20
13) Acrolein	2.12	56	95	778.61	ug/l #	8
14) Allyl chloride	2.25	41	59	20.57	ug/l #	1
16) Acetone	2.34	43	247	270.35	ug/l #	63
18) Methyl Acetate	2.34	43	247	167.96	ug/l #	60
22) Diisopropyl ether	3.04	45	71	11.06	ug/l #	38
23) Vinyl Acetate	3.36	43	72	21.17	ug/l #	80
25) 2-Butanone	4.60	43	67	56.46	ug/l #	58
28) Bromochloromethane	3.83	49	62	37.02	ug/l #	4
29) Tetrahydrofuran	4.28	42	64	142.84	ug/l #	37
31) Cyclohexane	3.71	56	60	19.85	ug/l #	14
37) Ethyl Acetate	4.14	43	73	177.93	ug/l #	1
38) Carbon Tetrachloride	4.16	117	63	79.31	ug/l #	12
41) Methacrylonitrile	4.92	41	101	486.70	ug/l #	23
43) Isopropyl Acetate	7.13	43	114	220.77	ug/l #	45
48) Methyl methacrylate	6.74	41	193	564.83	ug/l #	15
51) 4-Methyl-2-Pentanone	8.39	43	70	156.98	ug/l #	39
57) 1,3-Dichloropropane	8.94	76	60	84.42	ug/l #	43
59) 2-Hexanone	9.61	43	132	365.74	ug/l #	30

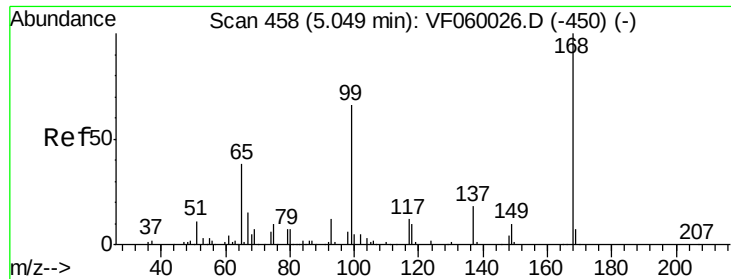
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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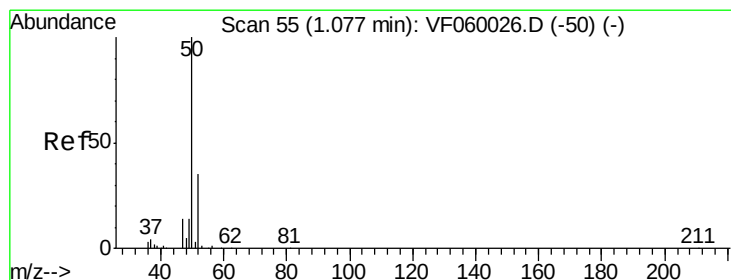
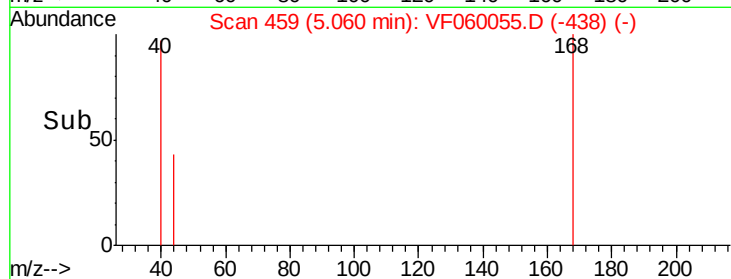
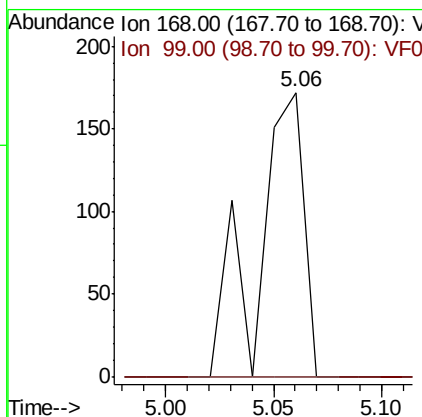
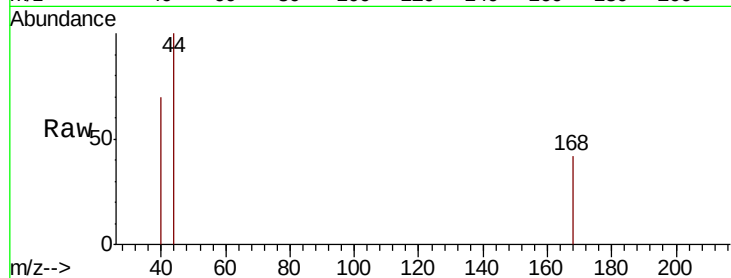




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.06 min Scan# 459
Delta R.T. 0.01 min
Lab File: VF060055.D
Acq: 23 Aug 2018 16:09

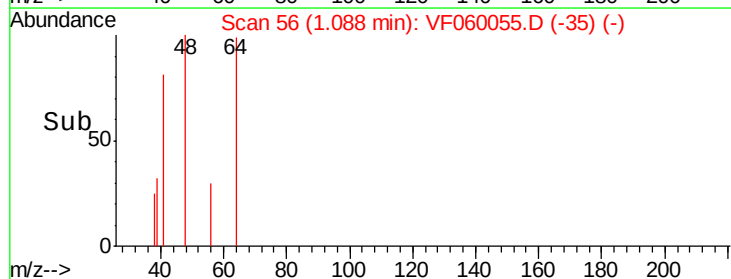
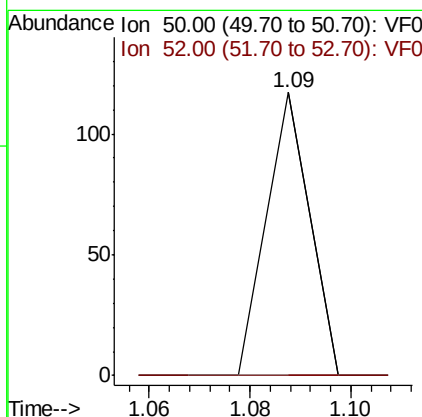
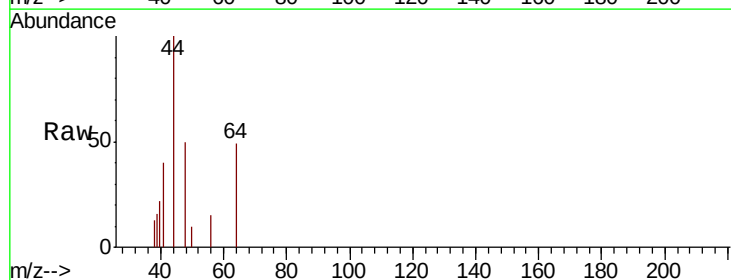
Instrument :
MSVOA_F
ClientSampleId :
EO-01-082118-ARE

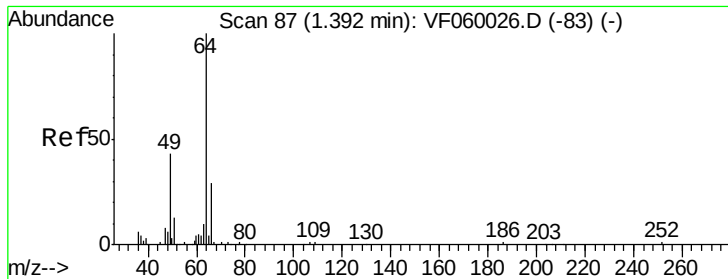
Tot Ion:168 Resp: 254
Ion Ratio Lower Upper
168 100
99 0.0 52.6 79.0#



#3
Chloromethane
Concen: 30.33 ug/l
RT: 1.09 min Scan# 56
Delta R.T. 0.01 min
Lab File: VF060055.D
Acq: 23 Aug 2018 16:09

Tgt Ion: 50 Resp: 69
Ion Ratio Lower Upper
50 100
52 0.0 27.6 41.4#





#6

Chloroethane

Concen: 533.95 ug/l

RT: 1.40 min Scan# 88

Delta R.T. 0.01 min

Lab File: VF060055.D

Acq: 23 Aug 2018 16:09

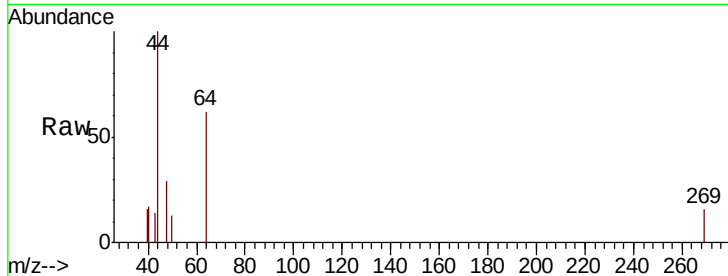
Instrument :
MSVOA_F
ClientSampleId :
EO-01-082118-ARE

Tot Ion: 64 Resp: 437

Ion Ratio Lower Upper

64 100

66 0.0 24.1 36.1#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

1.40

600

500

400

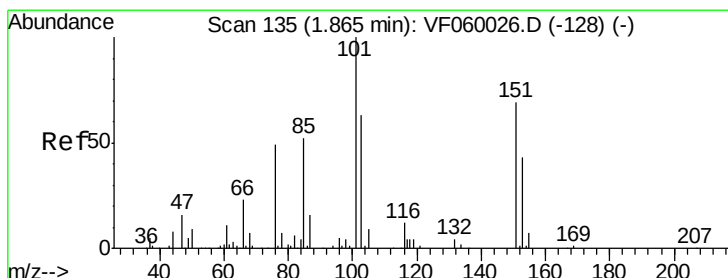
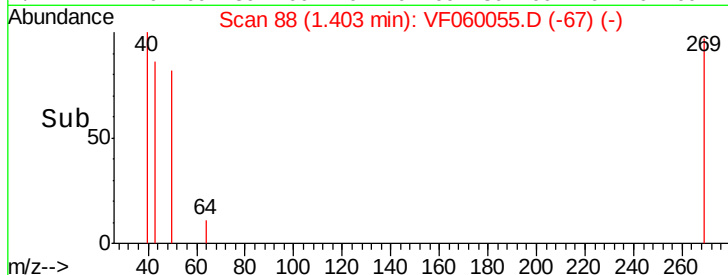
300

200

100

0

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 45.17 ug/l

RT: 1.92 min Scan# 140

Delta R.T. 0.05 min

Lab File: VF060055.D

Acq: 23 Aug 2018 16:09

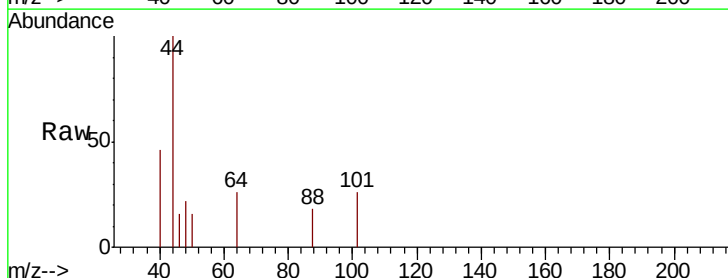
Tgt Ion:101 Resp: 99

Ion Ratio Lower Upper

101 100

85 0.0 41.5 62.3#

151 0.0 55.2 82.8#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V

200

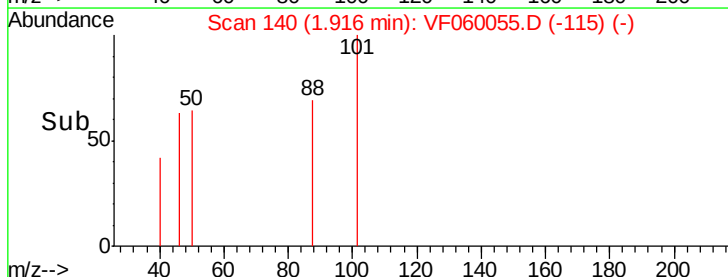
150

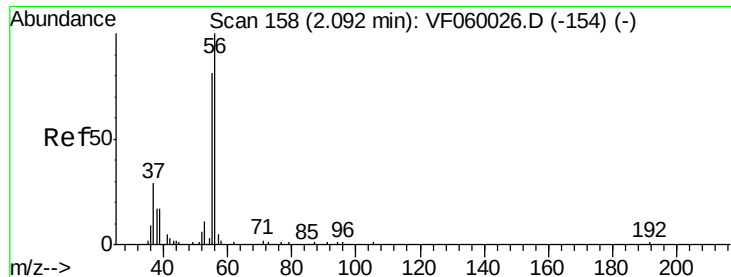
100

50

0

Time-->





#13

Acrolein

Concen: 778.61 ug/l

RT: 2.12 min Scan# 161

Delta R.T. 0.03 min

Lab File: VF060055.D

Acq: 23 Aug 2018 16:09

Instrument :

MSVOA_F

ClientSampleId :

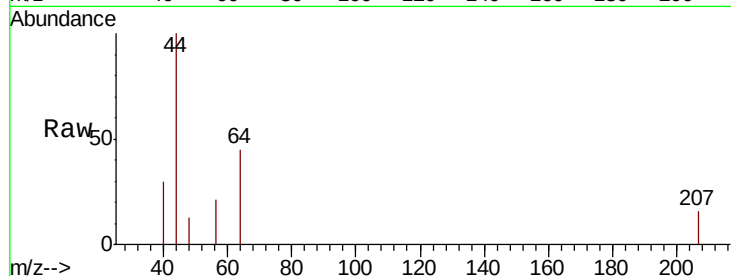
EO-01-082118-ARE

Tot Ion: 56 Resp: 95

Ion Ratio Lower Upper

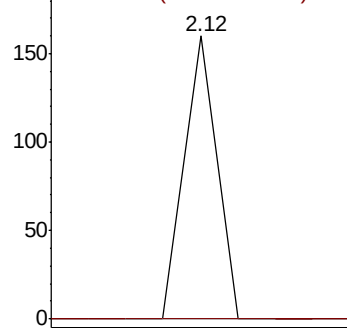
56 100

55 0.0 65.6 98.4#

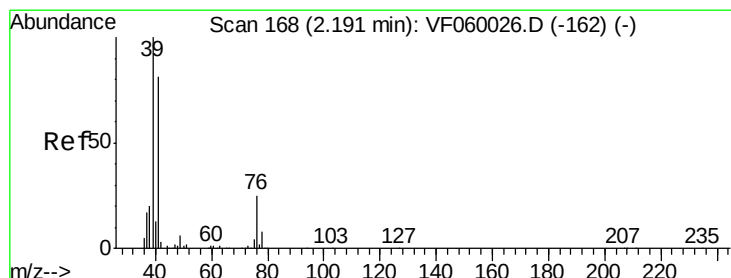
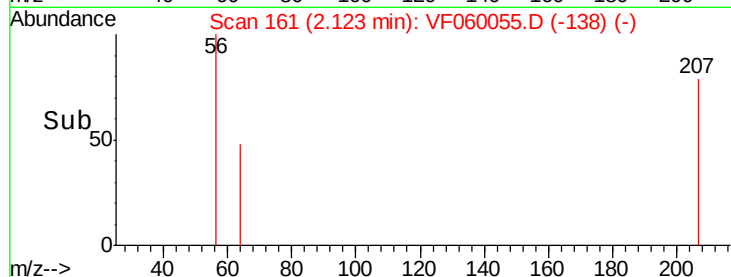


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



Time-->



#14

Allyl chloride

Concen: 20.57 ug/l

RT: 2.25 min Scan# 174

Delta R.T. 0.06 min

Lab File: VF060055.D

Acq: 23 Aug 2018 16:09

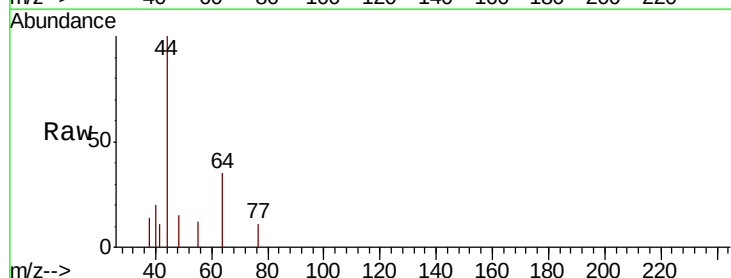
Tgt Ion: 41 Resp: 59

Ion Ratio Lower Upper

41 100

39 0.0 99.3 148.9#

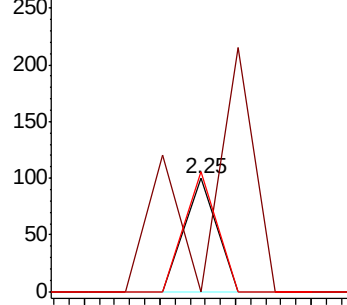
76 106.0 24.3 36.5#



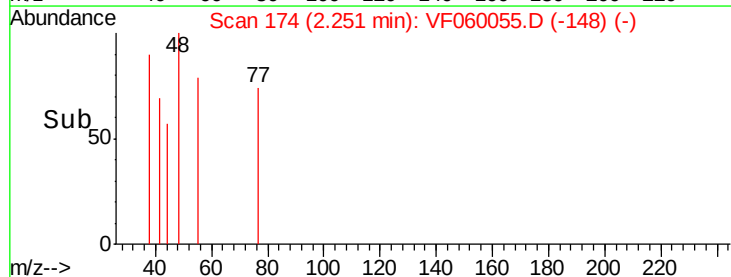
Abundance Ion 41.00 (40.70 to 41.70): VF0

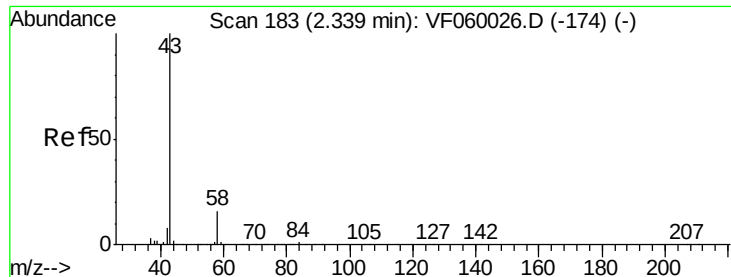
Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0



Time-->





#16

Acetone

Concen: 270.35 ug/l

RT: 2.34 min Scan# 183

Delta R.T. 0.00 min

Lab File: VF060055.D

Acq: 23 Aug 2018 16:09

Instrument :

MSVOA_F

ClientSampleId :

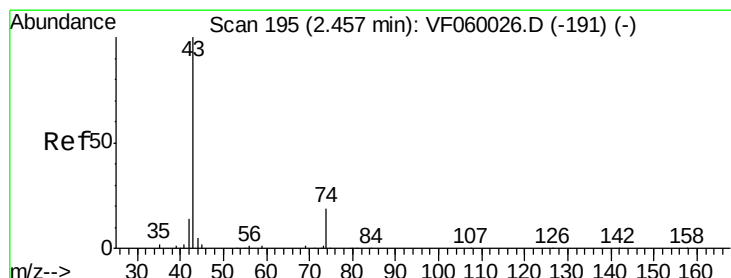
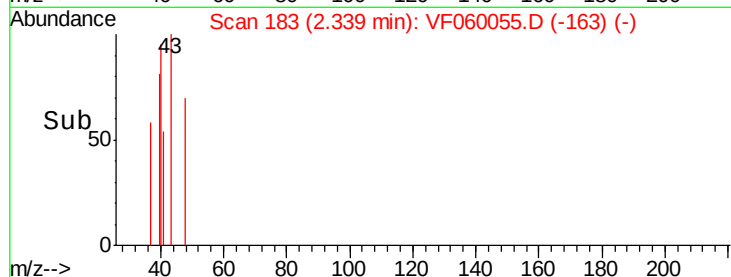
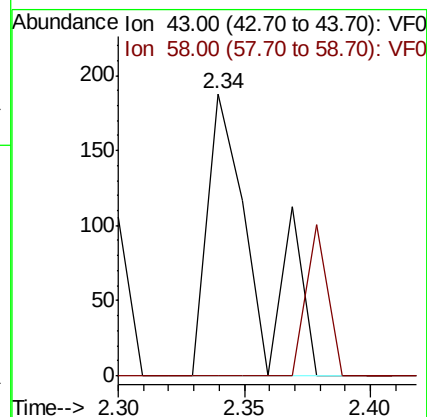
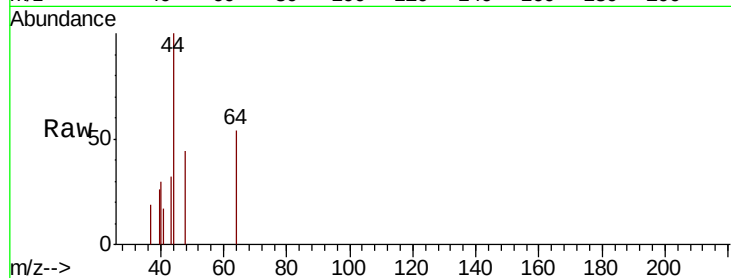
EO-01-082118-ARE

Tot Ion: 43 Resp: 247

Ion Ratio Lower Upper

43 100

58 0.0 12.6 19.0#



#18

Methyl Acetate

Concen: 167.96 ug/l

RT: 2.34 min Scan# 183

Delta R.T. -0.12 min

Lab File: VF060055.D

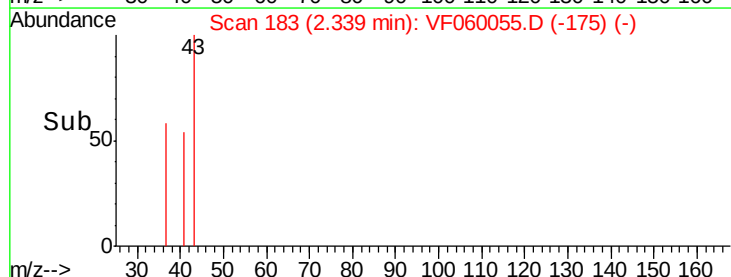
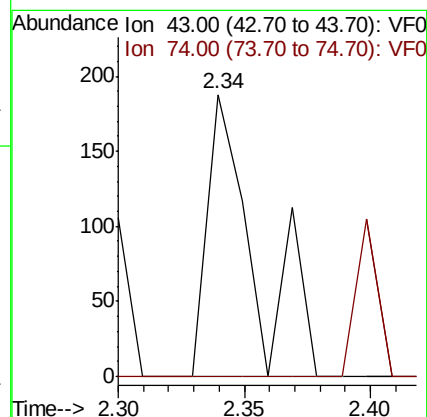
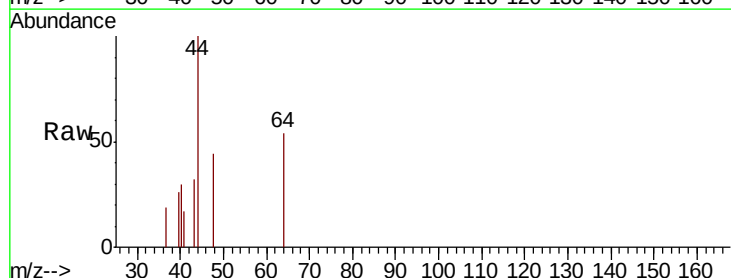
Acq: 23 Aug 2018 16:09

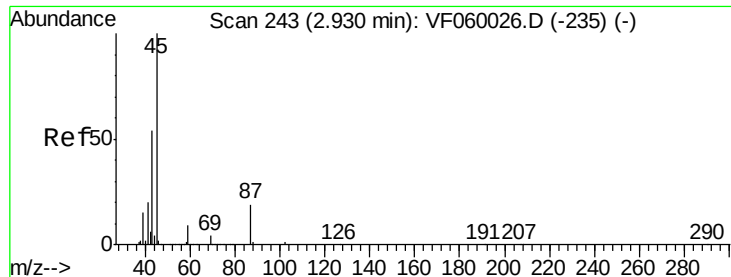
Tgt Ion: 43 Resp: 247

Ion Ratio Lower Upper

43 100

74 0.0 13.8 20.6#





#22

Diisopropyl ether

Concen: 11.06 ug/l

RT: 3.04 min Scan# 254

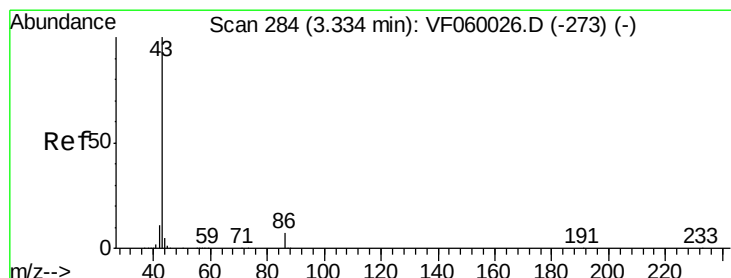
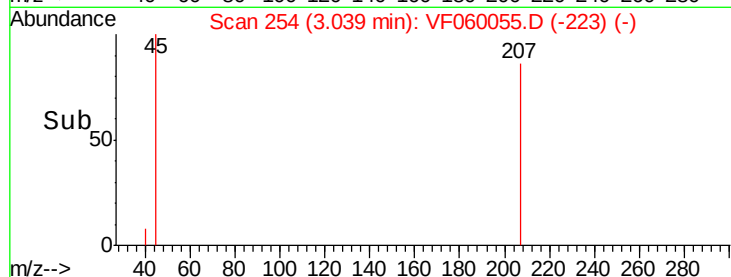
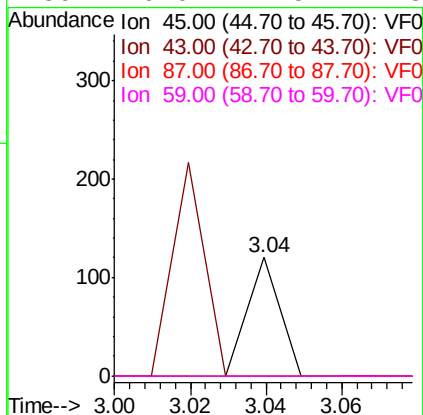
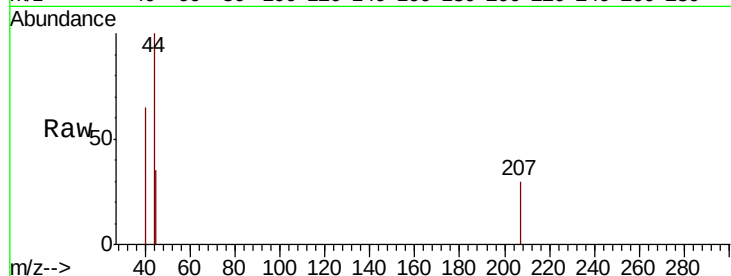
Delta R.T. 0.11 min

Lab File: VF060055.D

Acq: 23 Aug 2018 16:09

Instrument :
MSVOA_F
ClientSampleId :
EO-01-082118-ARE

Tot Ion:	45	Resp:	71
Ion	Ratio	Lower	Upper
45	100		
43	0.0	43.4	65.2#
87	0.0	15.4	23.2#
59	0.0	7.5	11.3#



#23

Vinyl Acetate

Concen: 21.17 ug/l

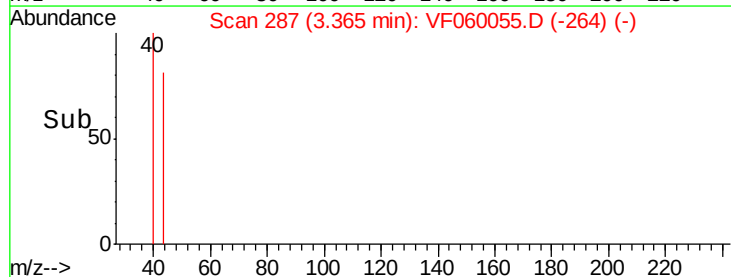
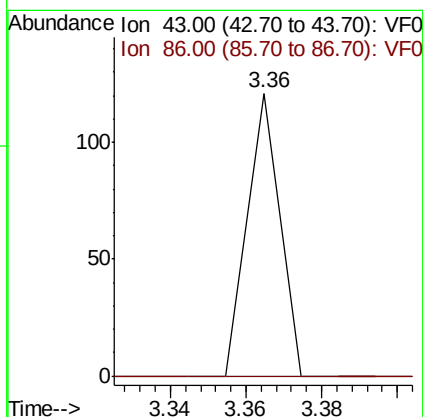
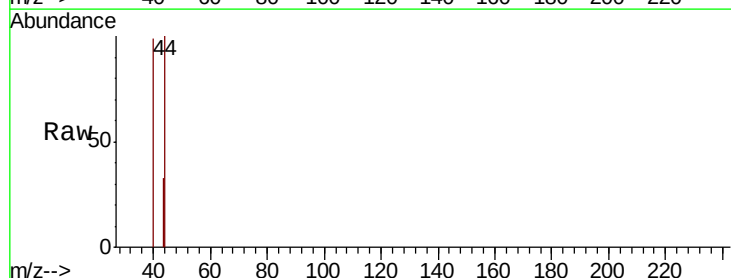
RT: 3.36 min Scan# 287

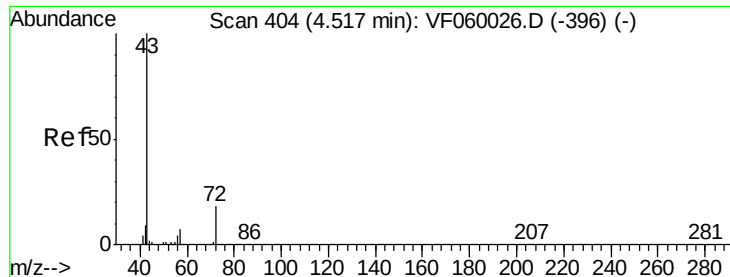
Delta R.T. 0.03 min

Lab File: VF060055.D

Acq: 23 Aug 2018 16:09

Tgt Ion:	43	Resp:	72
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.6	8.4#





#25

2-Butanone

Concen: 56.46 ug/l

RT: 4.60 min Scan# 412

Delta R.T. 0.08 min

Lab File: VF060055.D

Acq: 23 Aug 2018 16:09

Instrument :

MSVOA_F

ClientSampleId :

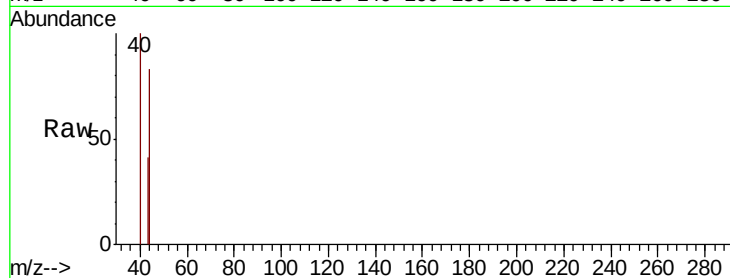
EO-01-082118-ARE

Tot Ion: 43 Resp: 67

Ion Ratio Lower Upper

43 100

72 0.0 15.0 22.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

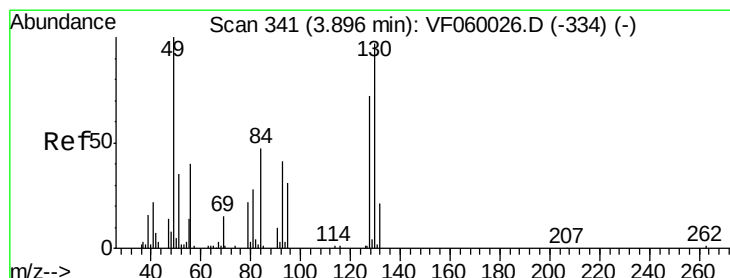
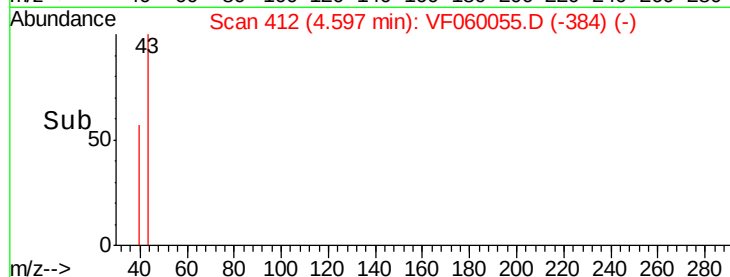
4.60

100

50

0

Time--> 4.56 4.58 4.60 4.62



#28

Bromochloromethane

Concen: 37.02 ug/l

RT: 3.83 min Scan# 334

Delta R.T. -0.07 min

Lab File: VF060055.D

Acq: 23 Aug 2018 16:09

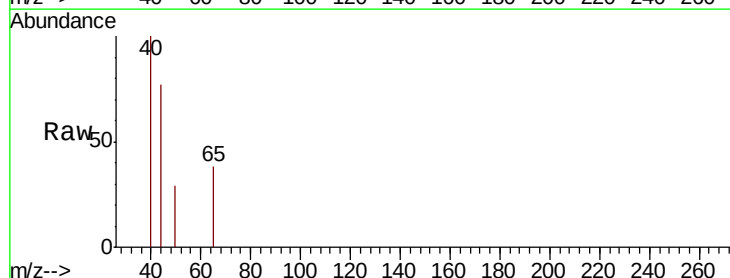
Tgt Ion: 49 Resp: 62

Ion Ratio Lower Upper

49 100

129 0.0 0.0 7.4

130 0.0 78.0 117.0#



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V

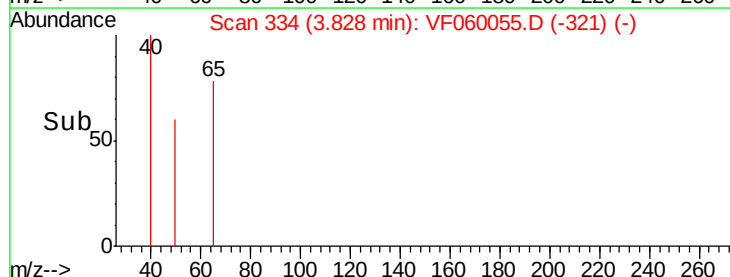
3.83

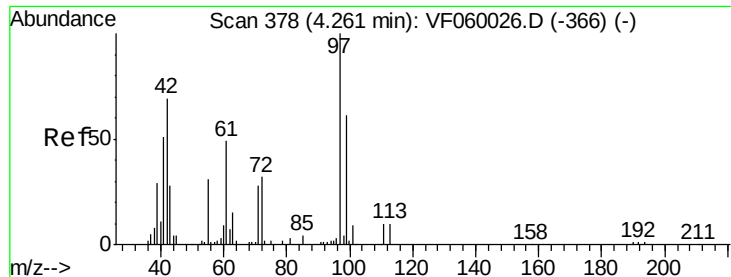
100

50

0

Time--> 3.80 3.82 3.84 3.86





#29

Tetrahydrofuran

Concen: 142.84 ug/l

RT: 4.28 min Scan# 380

Delta R.T. 0.02 min

Lab File: VF060055.D

Acq: 23 Aug 2018 16:09

Instrument :

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ClientSampleId :

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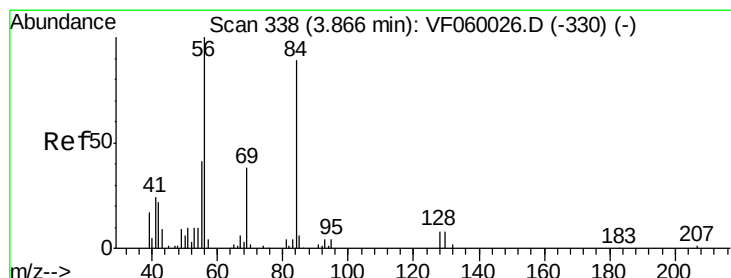
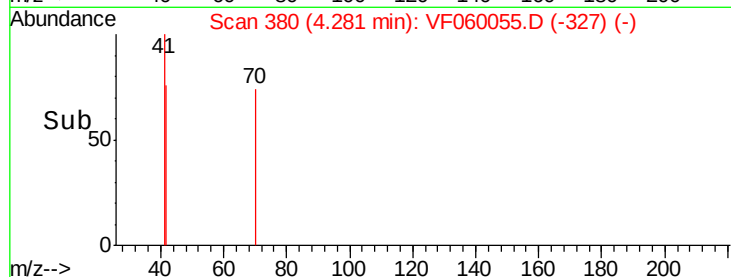
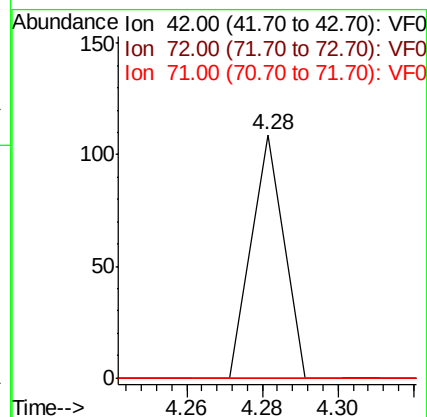
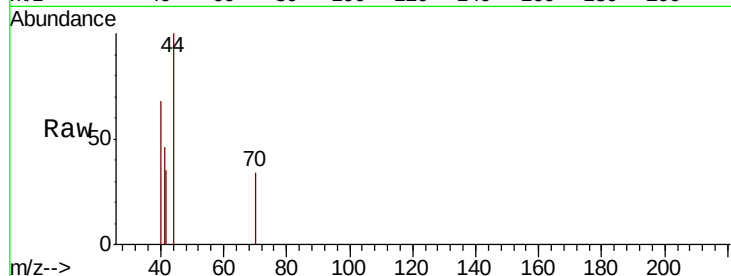
Tot Ion: 42 Resp: 64

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.2#

71 0.0 29.7 44.5#



#31

Cyclohexane

Concen: 19.85 ug/l

RT: 3.71 min Scan# 322

Delta R.T. -0.16 min

Lab File: VF060055.D

Acq: 23 Aug 2018 16:09

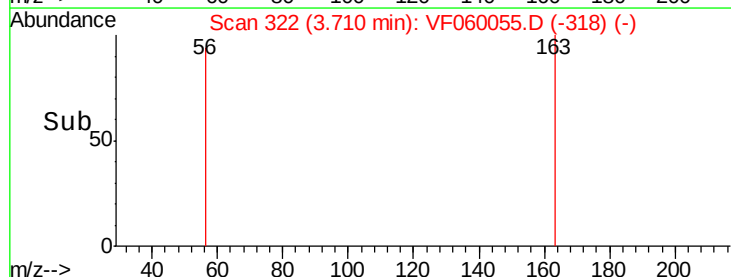
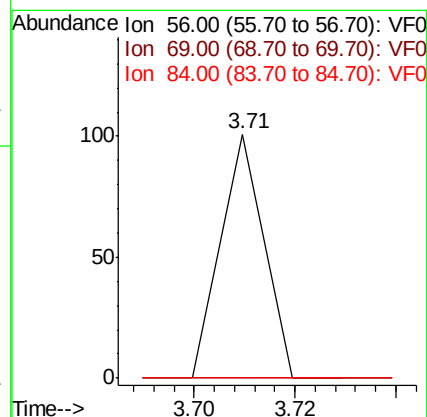
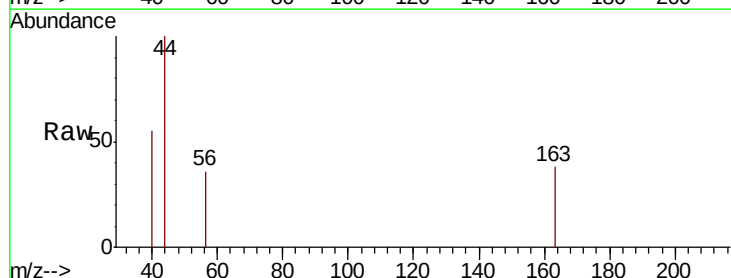
Tgt Ion: 56 Resp: 60

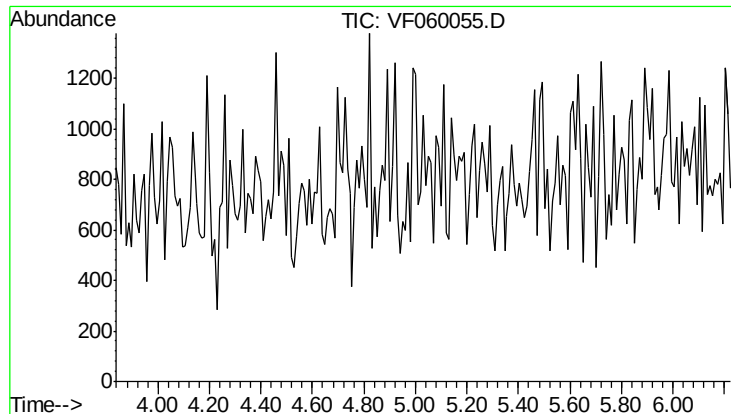
Ion Ratio Lower Upper

56 100

69 0.0 30.4 45.6#

84 0.0 71.4 107.2#

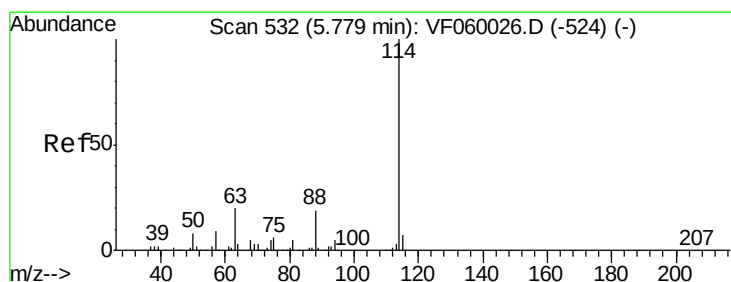
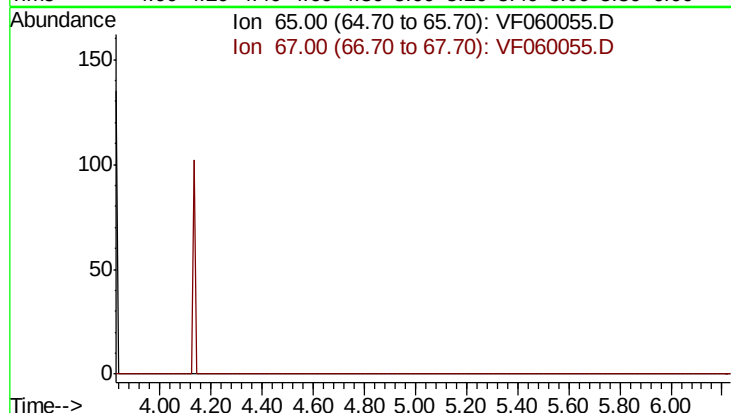




#33
 1,2-Dichloroethane-d4
 Concen: 0.00 ug/l
 Expected RT: 5.03 min
 Lab File: VF060055.D
 Acq: 23 Aug 2018 16:09

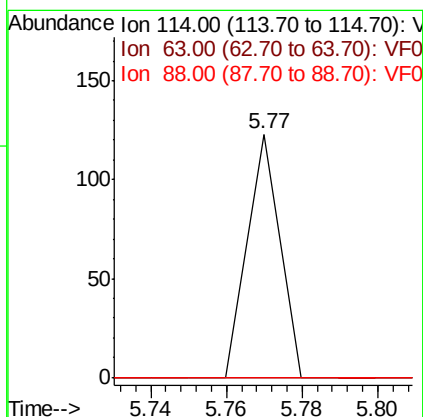
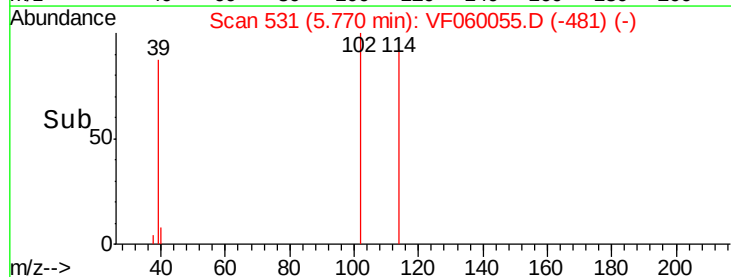
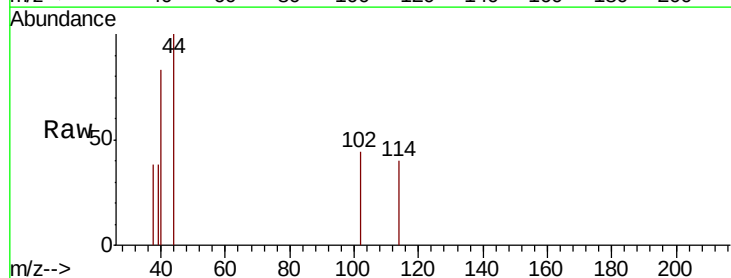
Instrument :
 MSVOA_F
 ClientSampleId :
 EO-01-082118-ARE

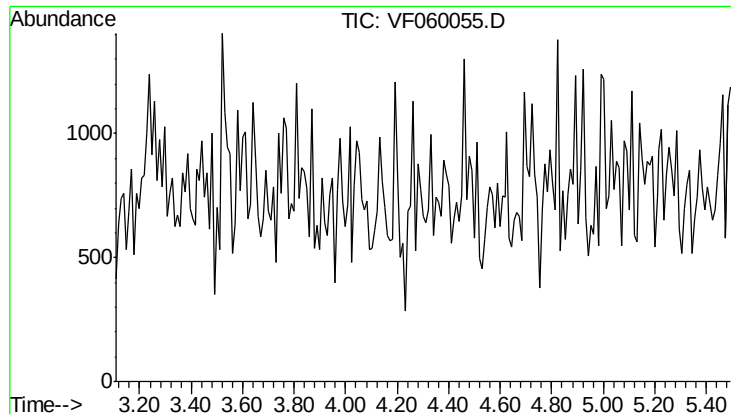
Tot Ion: 65
 Sig Exp Ratio
 65 100
 67 46.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.77 min Scan# 531
 Delta R.T. -0.01 min
 Lab File: VF060055.D
 Acq: 23 Aug 2018 16:09

Tgt Ion:114 Resp: 73
 Ion Ratio Lower Upper
 114 100
 63 0.0 0.0 40.4
 88 0.0 0.0 38.6

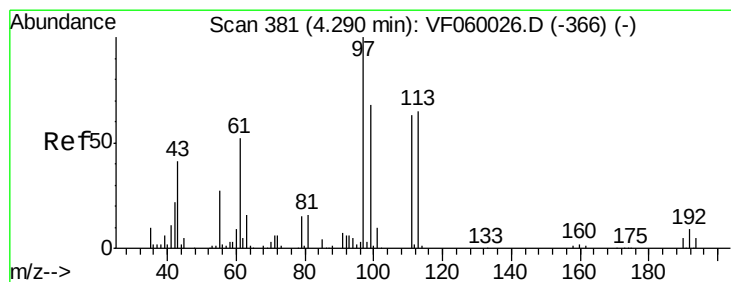
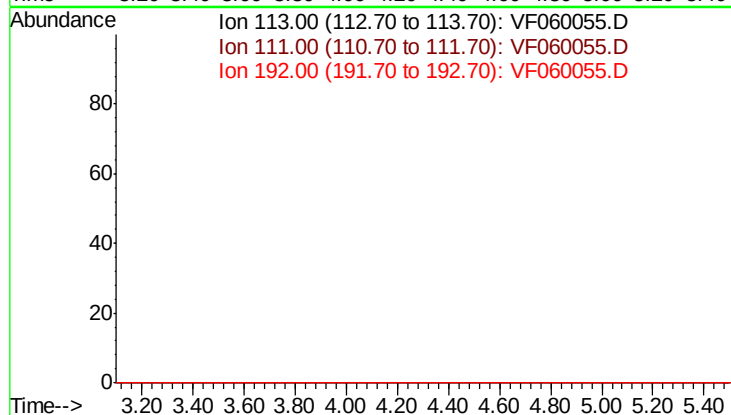




#35
 Dibromofluoromethane
 Concen: 0.00 ug/l
 Expected RT: 4.30 min
 Lab File: VF060055.D
 Acq: 23 Aug 2018 16:09

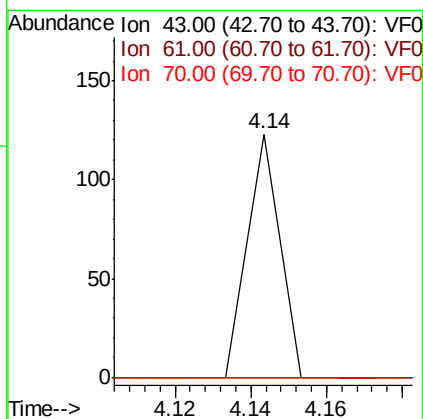
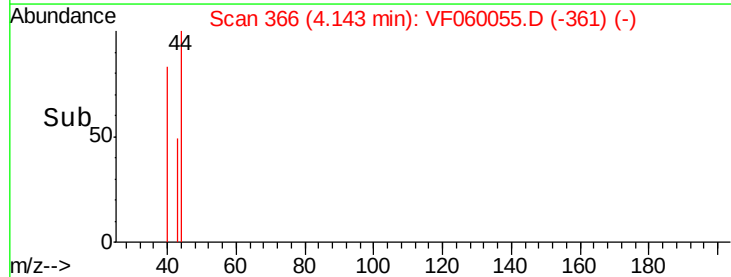
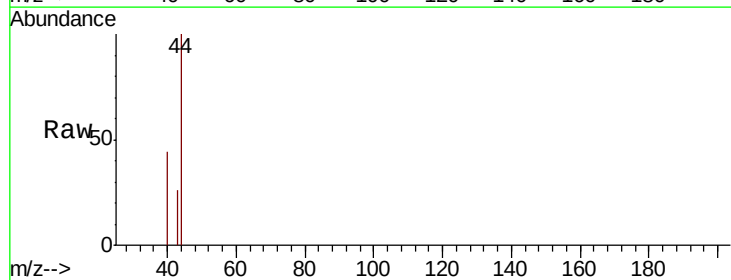
Instrument :
 MSVOA_F
 ClientSampleId :
 EO-01-082118-ARE

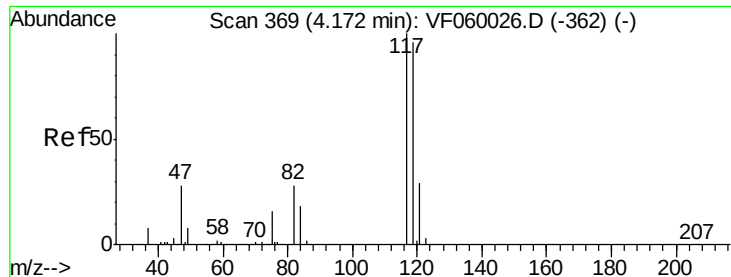
Tot Ion: 113
 Sig Exp Ratio
 113 100
 111 103.4
 192 16.2



#37
 Ethyl Acetate
 Concen: 177.93 ug/l
 RT: 4.14 min Scan# 366
 Delta R.T. -0.15 min
 Lab File: VF060055.D
 Acq: 23 Aug 2018 16:09

Tgt Ion: 43 Resp: 73
 Ion Ratio Lower Upper
 43 100
 61 0.0 101.5 152.3#
 70 0.0 6.4 9.6#





#38

Carbon Tetrachloride

Concen: 79.31 ug/l

RT: 4.16 min Scan# 368

Delta R.T. -0.01 min

Lab File: VF060055.D

Acq: 23 Aug 2018 16:09

Instrument :

MSVOA_F

ClientSampleId :

EO-01-082118-ARE

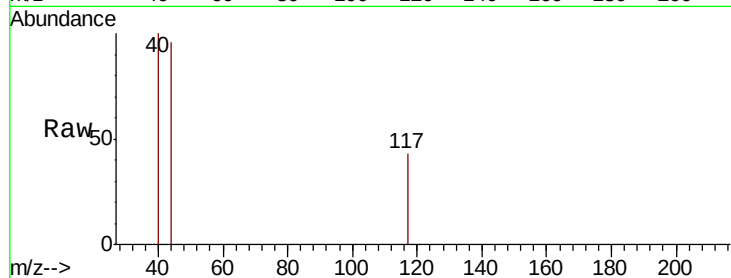
Tot Ion:117 Resp: 63

Ion Ratio Lower Upper

117 100

119 0.0 76.5 114.7#

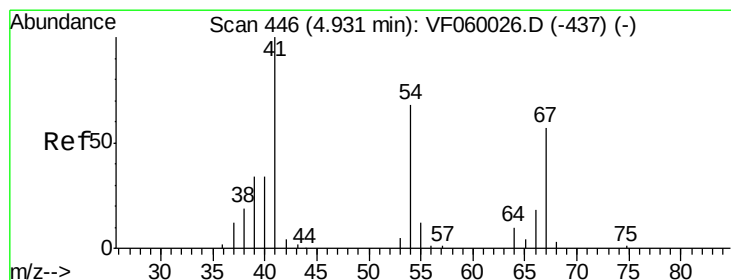
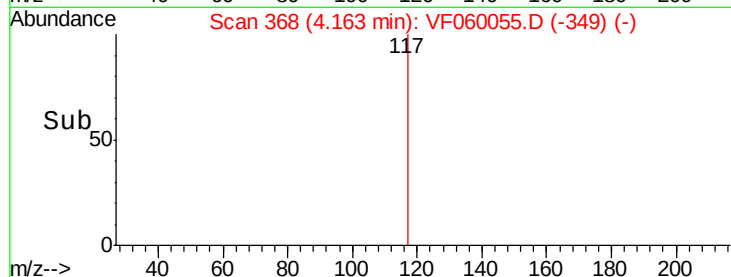
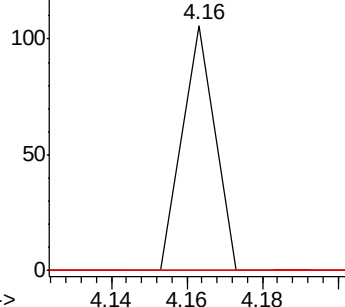
121 0.0 23.0 34.6#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#41

Methacrylonitrile

Concen: 486.70 ug/l

RT: 4.92 min Scan# 445

Delta R.T. -0.01 min

Lab File: VF060055.D

Acq: 23 Aug 2018 16:09

Tgt Ion: 41 Resp: 101

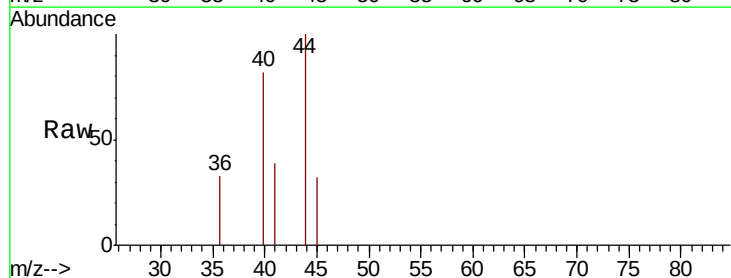
Ion Ratio Lower Upper

41 100

39 0.0 52.9 79.3#

67 0.0 45.3 67.9#

52 0.0 34.8 52.2#

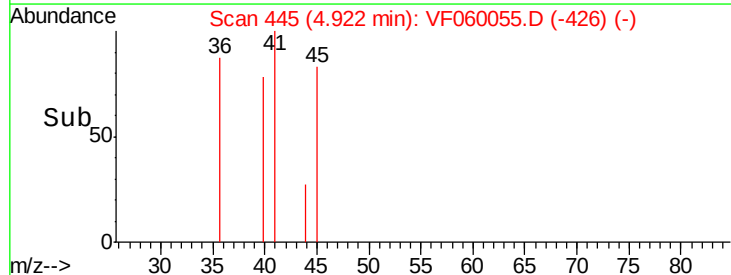
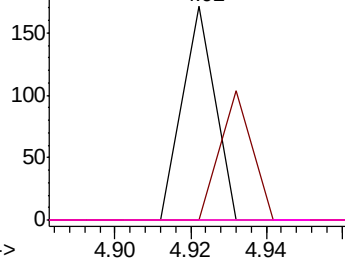


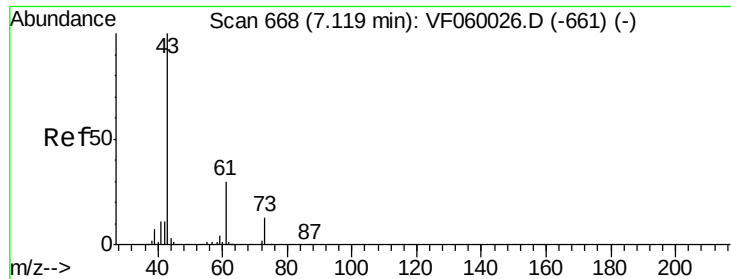
Abundance Ion 41.00 (40.70 to 41.70): VF0

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





#43

Isopropyl Acetate

Concen: 220.77 ug/l

RT: 7.13 min Scan# 669

Delta R.T. 0.01 min

Lab File: VF060055.D

Acq: 23 Aug 2018 16:09

Instrument :

MSVOA_F

ClientSampleId :

EO-01-082118-ARE

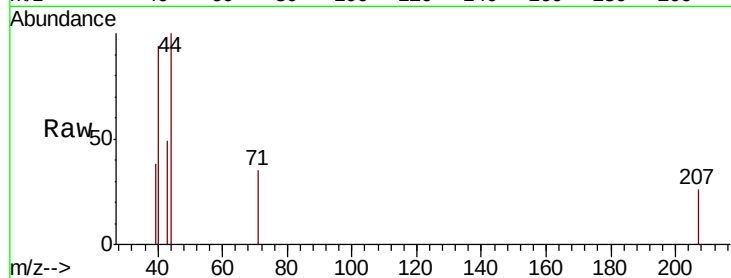
Tot Ion: 43 Resp: 114

Ion Ratio Lower Upper

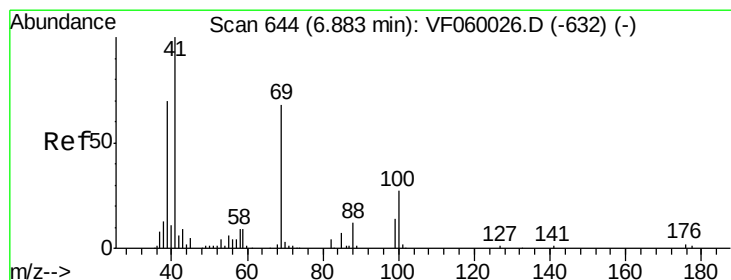
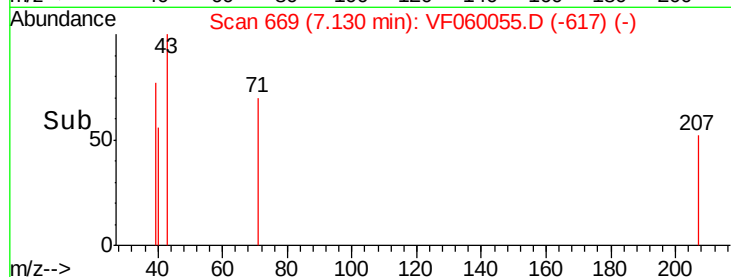
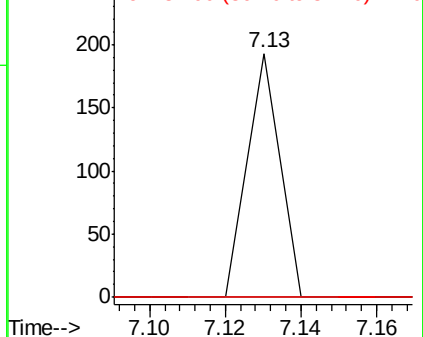
43 100

61 0.0 23.8 35.6#

87 0.0 0.2 0.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 87.00 (86.70 to 87.70): VF0



#48

Methyl methacrylate

Concen: 564.83 ug/l

RT: 6.74 min Scan# 629

Delta R.T. -0.15 min

Lab File: VF060055.D

Acq: 23 Aug 2018 16:09

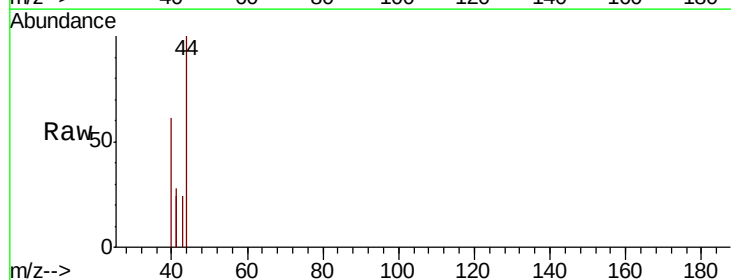
Tgt Ion: 41 Resp: 193

Ion Ratio Lower Upper

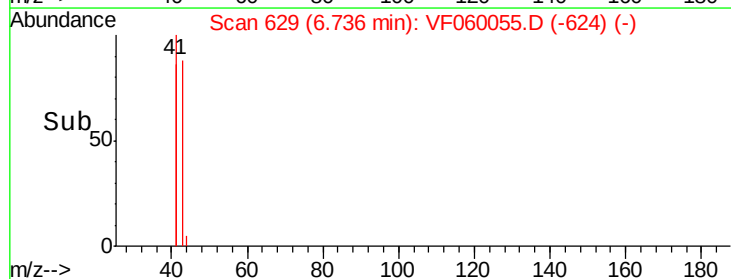
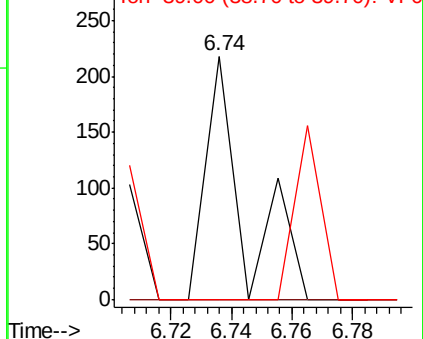
41 100

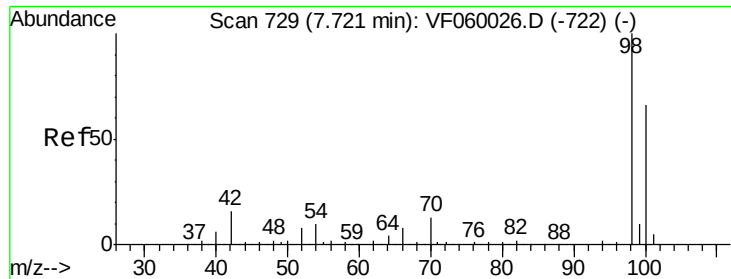
69 0.0 54.6 81.8#

39 0.0 56.5 84.7#



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0

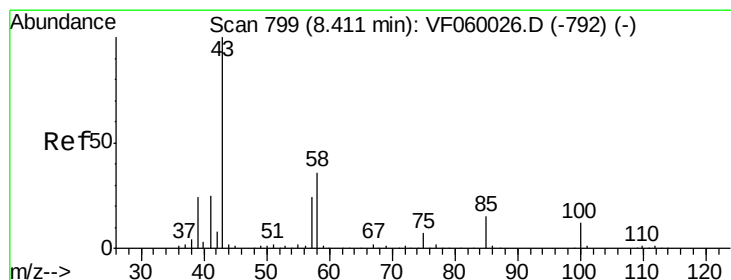
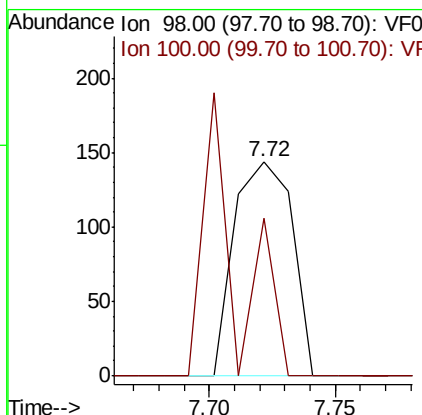
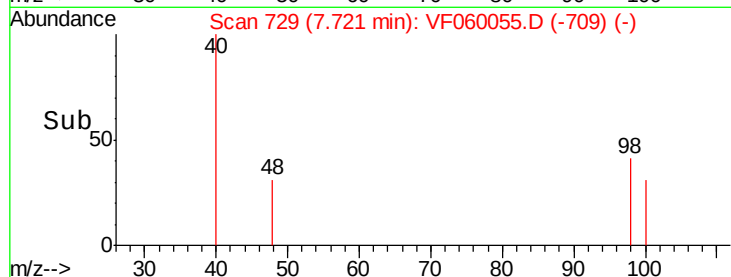
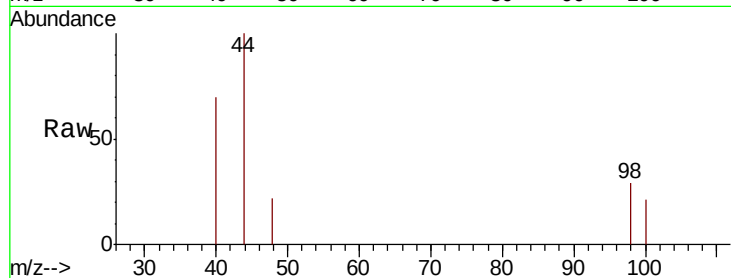




#50
Toluene-d8
Concen: 141.89 ug/l
RT: 7.72 min Scan# 729
Delta R.T. 0.00 min
Lab File: VF060055.D
Acq: 23 Aug 2018 16:09

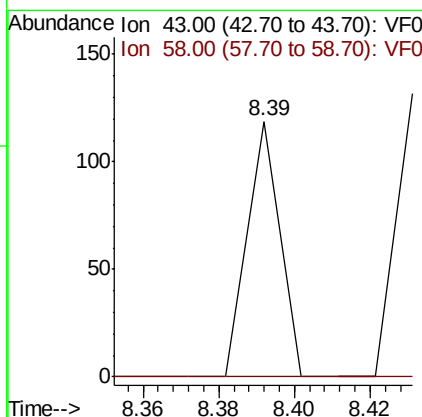
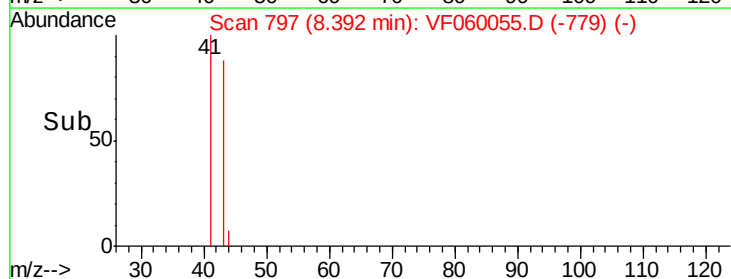
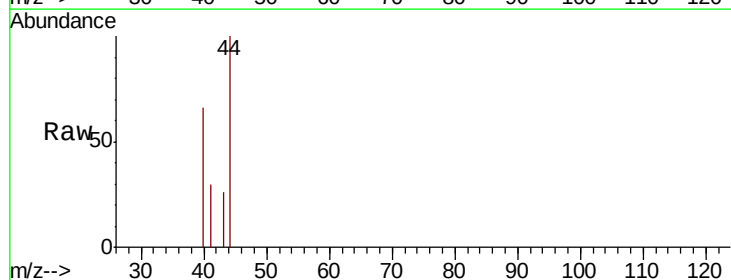
Instrument :
MSVOA_F
ClientSampleId :
EO-01-082118-ARE

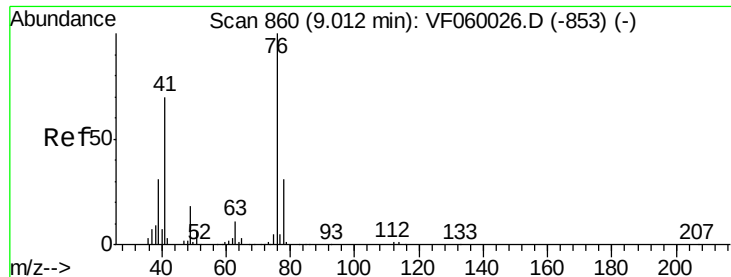
Tot Ion: 98 Resp: 231
Ion Ratio Lower Upper
98 100
100 73.6 53.2 79.8



#51
4-Methyl-2-Pentanone
Concen: 156.98 ug/l
RT: 8.39 min Scan# 797
Delta R.T. -0.02 min
Lab File: VF060055.D
Acq: 23 Aug 2018 16:09

Tgt Ion: 43 Resp: 70
Ion Ratio Lower Upper
43 100
58 0.0 28.6 42.8#





#57

1,3-Dichloropropane

Concen: 84.42 ug/l

RT: 8.94 min Scan# 853

Delta R.T. -0.07 min

Lab File: VF060055.D

Acq: 23 Aug 2018 16:09

Instrument :

MSVOA_F

ClientSampleId :

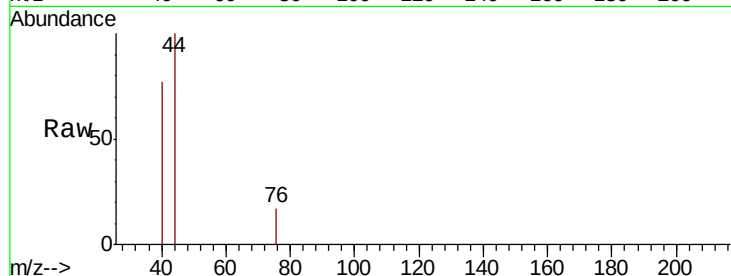
EO-01-082118-ARE

Tot Ion: 76 Resp: 60

Ion Ratio Lower Upper

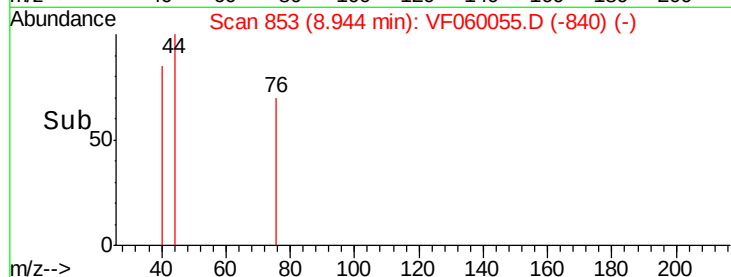
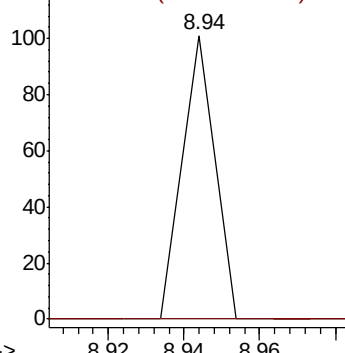
76 100

78 0.0 25.2 37.8#

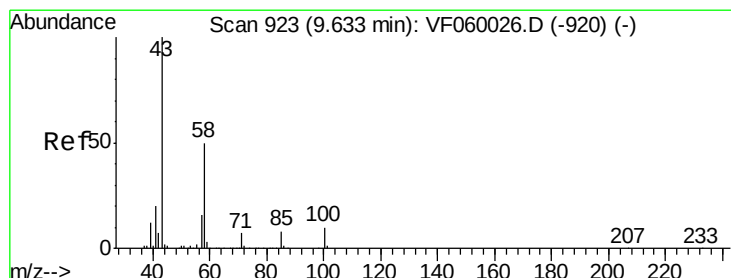


Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



Time-->



#59

2-Hexanone

Concen: 365.74 ug/l

RT: 9.61 min Scan# 921

Delta R.T. -0.02 min

Lab File: VF060055.D

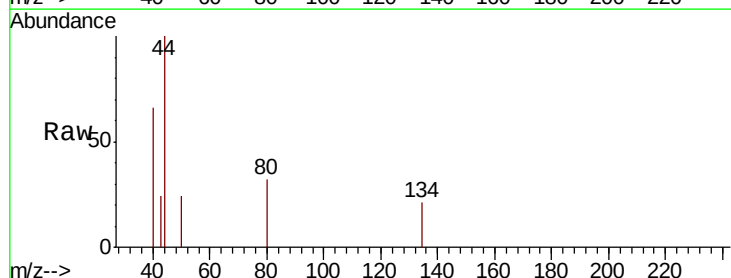
Acq: 23 Aug 2018 16:09

Tgt Ion: 43 Resp: 132

Ion Ratio Lower Upper

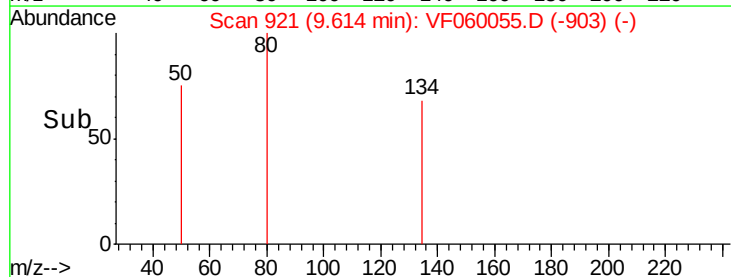
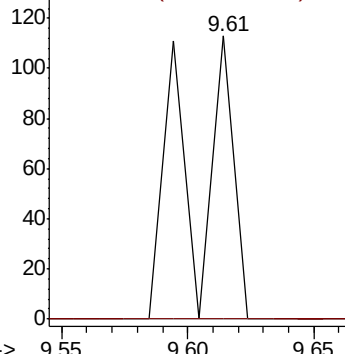
43 100

58 0.0 23.4 70.2#

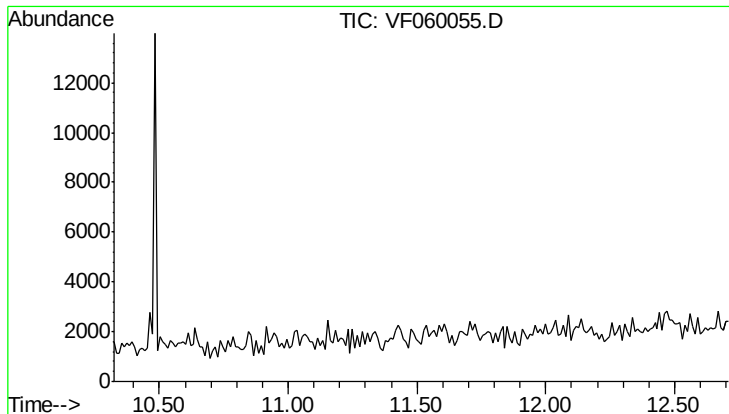


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->



#62

4-Bromofluorobenzene

Concen: 0.00 ug/l

Expected RT: 11.52 min

Lab File: VF060055.D

Acq: 23 Aug 2018 16:09

Instrument :

MSVOA_F

ClientSampleId :

EO-01-082118-ARE

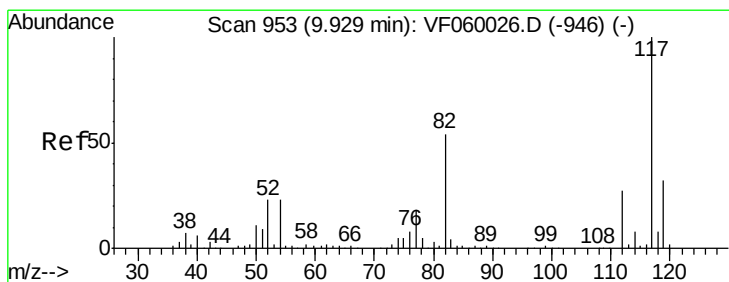
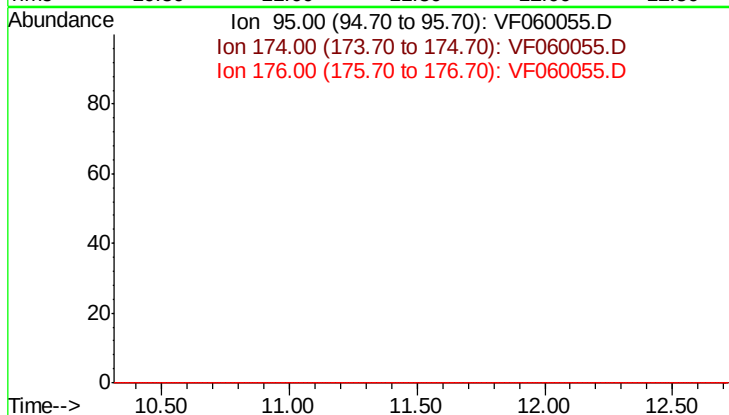
Tot Ion: 95

Sig Exp Ratio

95 100

174 79.2

176 76.5



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.95 min Scan# 955

Delta R.T. 0.02 min

Lab File: VF060055.D

Acq: 23 Aug 2018 16:09

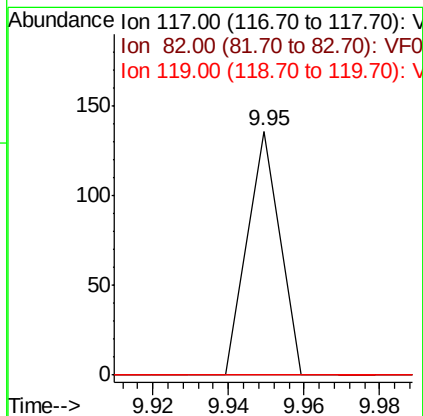
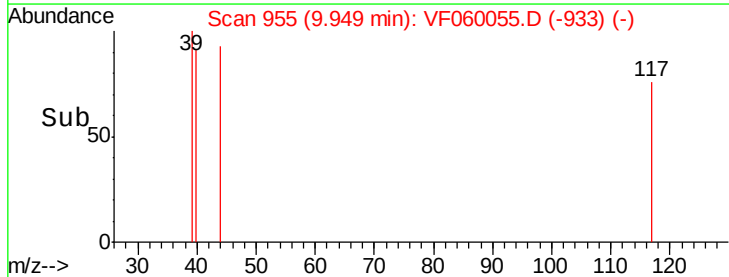
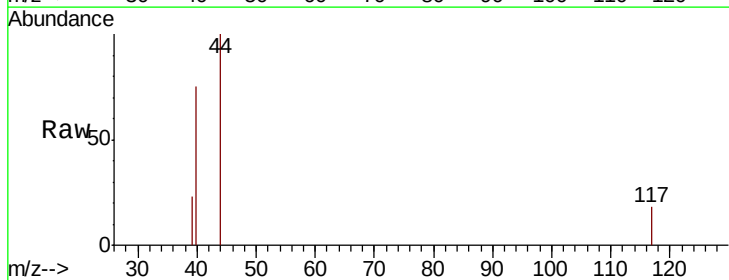
Tgt Ion: 117 Resp: 80

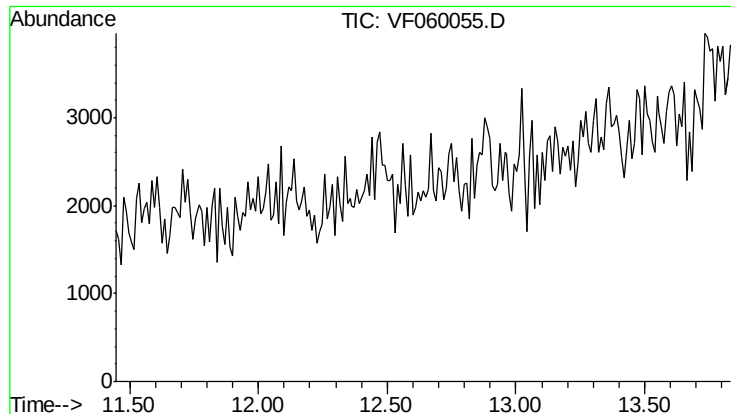
Ion Ratio Lower Upper

117 100

82 0.0 43.6 65.4#

119 0.0 25.6 38.4#





#72
1,4-Dichlorobenzene-d4
Concen: 0.00 ug/l
Expected RT: 12.64 min
Lab File: VF060055.D
Acq: 23 Aug 2018 16:09

Instrument :
MSVOA_F
ClientSampleId :
EO-01-082118-ARE

Tot Ion	152
Sig	Exp Ratio
152	100
115	57.3
150	156.0

