

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082918\
 Data File : VF060187.D
 Acq On : 29 Aug 2018 10:35
 Operator : VA/AP
 Sample : J4280-03RE
 Misc : 5.66q/5mL/MSVOA F/SOIL
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Aug 29 11:11:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F082918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 29 03:22:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	59264	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	70201	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	50351	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	17119	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.00	65	17200	46.47	ug/l	0.00
Spiked Amount			Recovery	=	92.94%	
35) Dibromofluoromethane	4.27	113	21391	47.37	ug/l	0.00
Spiked Amount			Recovery	=	94.74%	
50) Toluene-d8	7.70	98	67675	43.81	ug/l	0.00
Spiked Amount			Recovery	=	87.62%	
62) 4-Bromofluorobenzene	11.51	95	17669	31.01	ug/l	0.00
Spiked Amount			Recovery	=	62.02%	

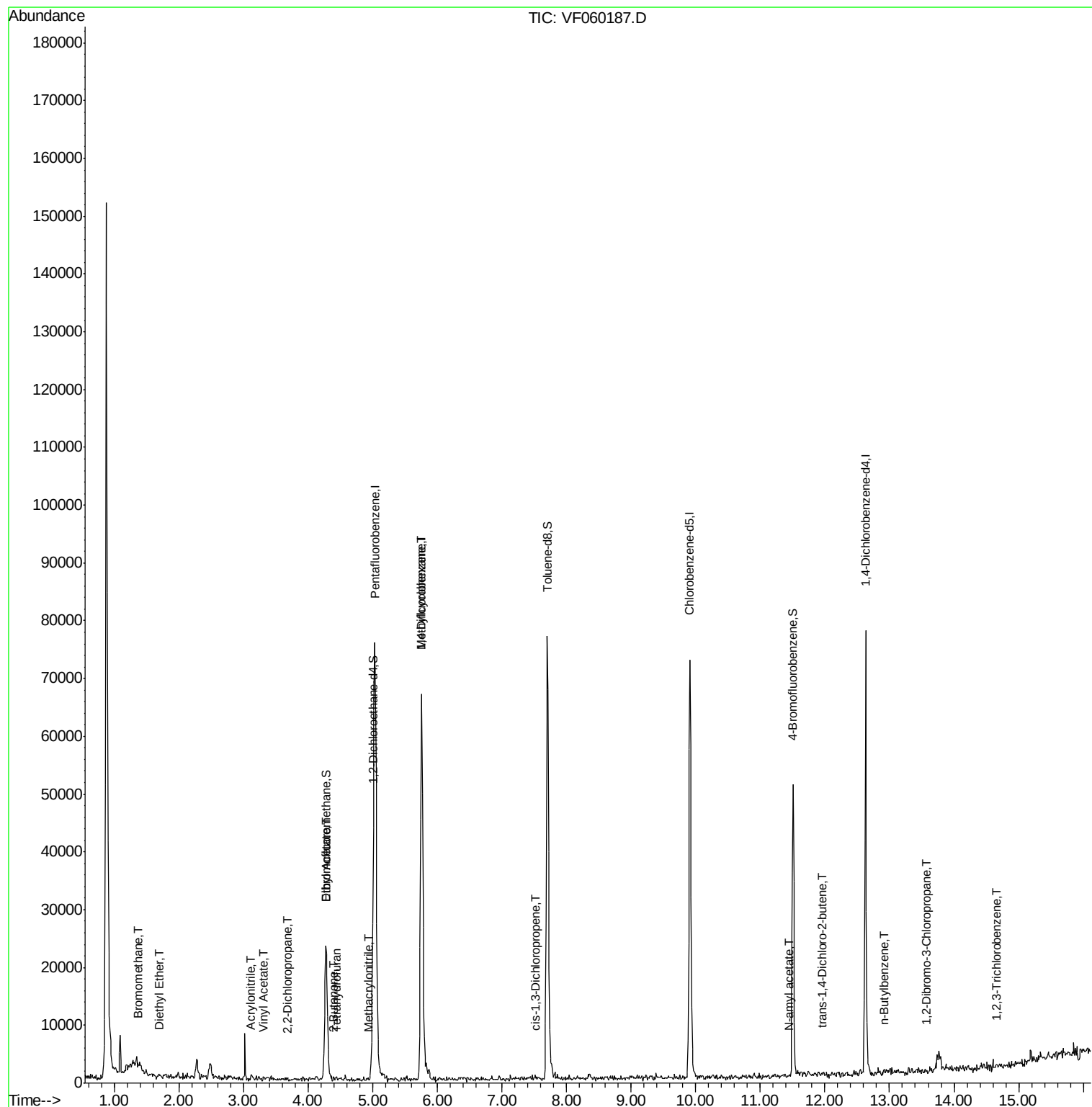
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.37	94	646	2.837	ug/l #	1
8) Diethyl Ether	1.69	74	137	1.759	ug/l	77
15) Acrylonitrile	3.11	53	63	3.502	ug/l #	18
16) Acetone	2.35	43	186	Below Cal	#	67
18) Methyl Acetate	2.39	43	76	Below Cal	#	67
20) Methylene Chloride	2.27	84	995	Below Cal	#	33
23) Vinyl Acetate	3.31	43	64	26.732	ug/l #	82
25) 2-Butanone	4.40	43	70	1.605	ug/l #	44
26) 2,2-Dichloropropane	3.68	77	63	4.019	ug/l #	66
29) Tetrahydrofuran	4.42	42	86	16.940	ug/l #	42
37) Ethyl Acetate	4.27	43	70	4.491	ug/l #	1
39) Methylcyclohexane	5.76	83	1290	1.375	ug/l #	15
41) Methacrylonitrile	4.93	41	78	1.152	ug/l #	29
54) cis-1,3-Dichloropropene	7.52	75	72	5.489	ug/l #	21
74) N-amyl acetate	11.45	43	147	1.047	ug/l #	52
81) trans-1,4-Dichloro-2-buten	11.95	75	79	6.308	ug/l #	24
89) n-Butylbenzene	12.91	91	130	3.711	ug/l #	33
92) 1,2-Dibromo-3-Chloropropan	13.59	75	60	2.785	ug/l #	3
96) 1,2,3-Trichlorobenzene	14.66	180	95	5.826	ug/l #	7

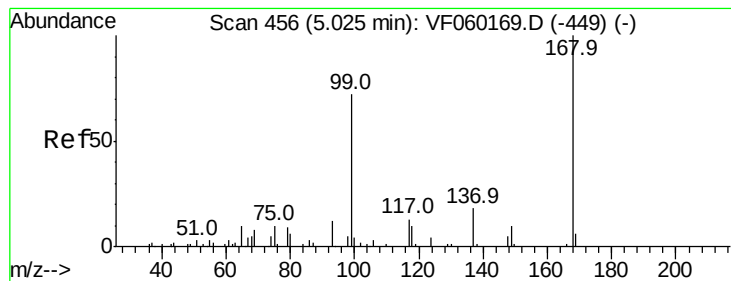
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Aug 29 03:22:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 456

Delta R.T. 0.01 min

Lab File: VF060187.D

Acq: 29 Aug 2018 10:35

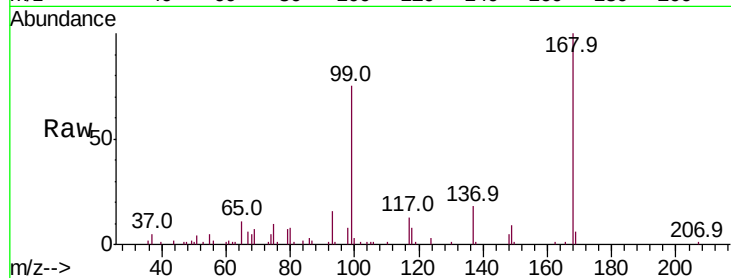
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 59264

Ion Ratio Lower Upper

168 100

99 75.2 57.9 86.9



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

20000

15000

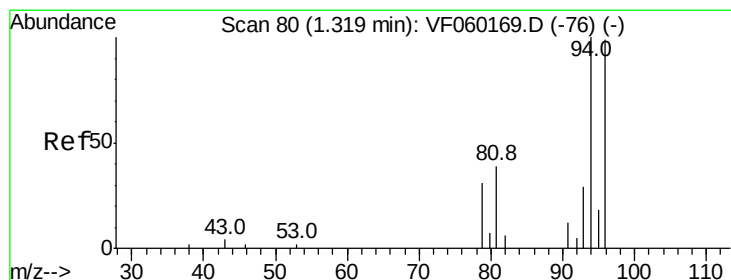
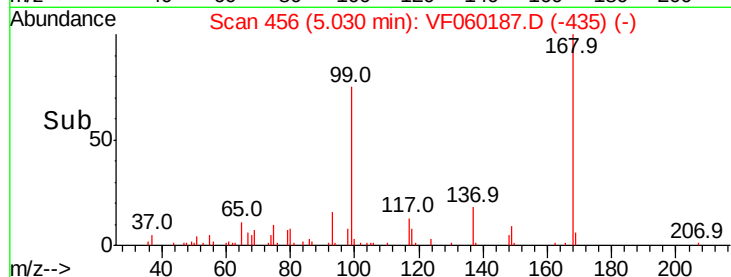
10000

5000

0

Time-->

4.90 5.00 5.10 5.20



#5

Bromomethane

Concen: 2.837 ug/l

RT: 1.37 min Scan# 85

Delta R.T. 0.05 min

Lab File: VF060187.D

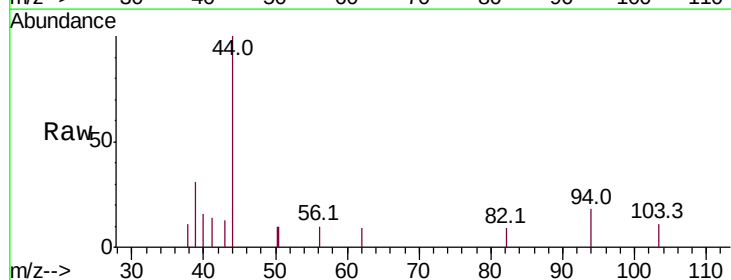
Acq: 29 Aug 2018 10:35

Tgt Ion: 94 Resp: 646

Ion Ratio Lower Upper

94 100

96 0.0 79.0 118.4#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.37

250

200

150

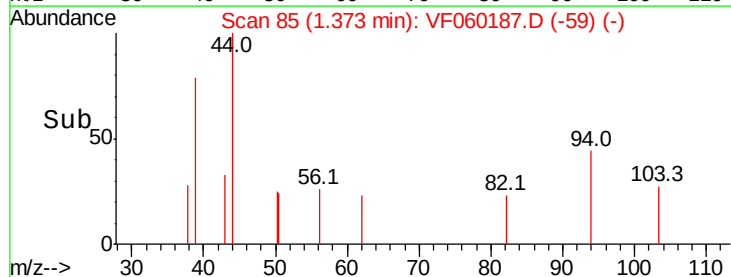
100

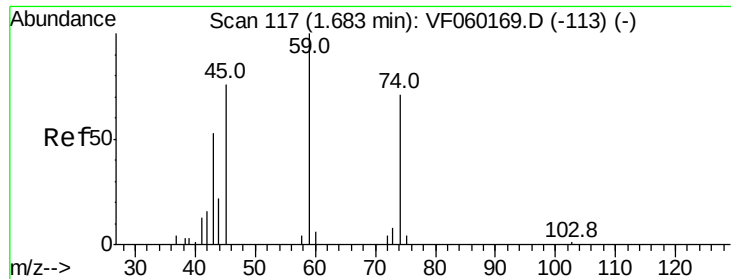
50

0

Time-->

1.25 1.30 1.35 1.40





#8

Diethyl Ether

Concen: 1.759 ug/l

RT: 1.69 min Scan# 117

Delta R.T. 0.01 min

Lab File: VF060187.D

Acq: 29 Aug 2018 10:35

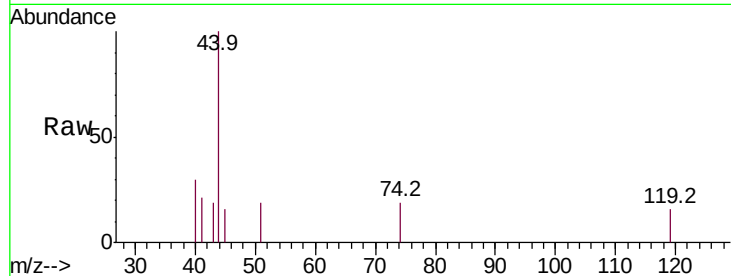
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 74 Resp: 137

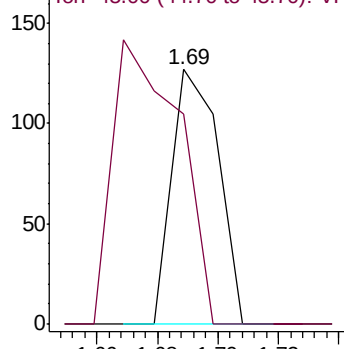
Ion Ratio Lower Upper

74 100

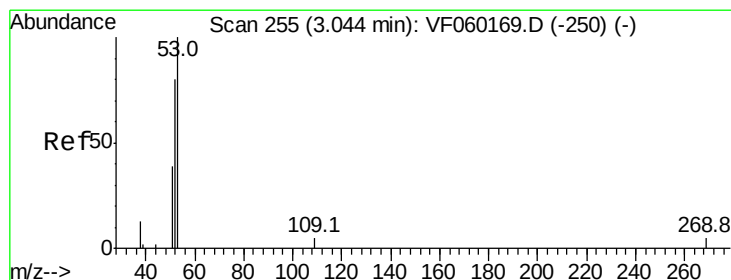
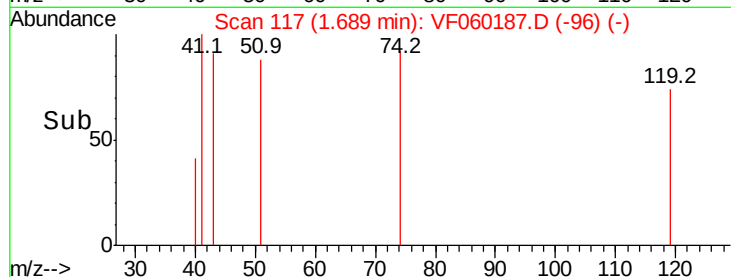
45 82.7 53.5 160.7



Abundance Ion 74.00 (73.70 to 74.70): VF0
Ion 45.00 (44.70 to 45.70): VF0



Time-->



#15

Acrylonitrile

Concen: 3.502 ug/l

RT: 3.11 min Scan# 261

Delta R.T. 0.06 min

Lab File: VF060187.D

Acq: 29 Aug 2018 10:35

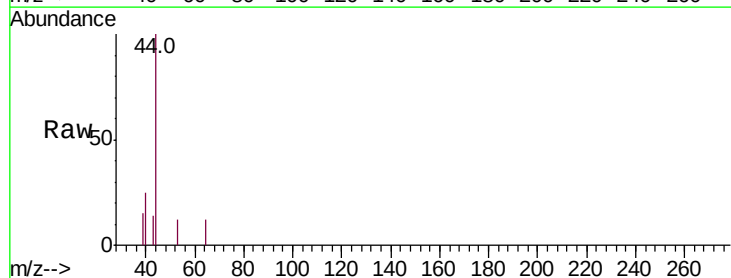
Tgt Ion: 53 Resp: 63

Ion Ratio Lower Upper

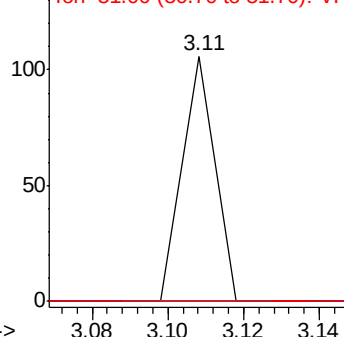
53 100

52 0.0 64.4 96.6#

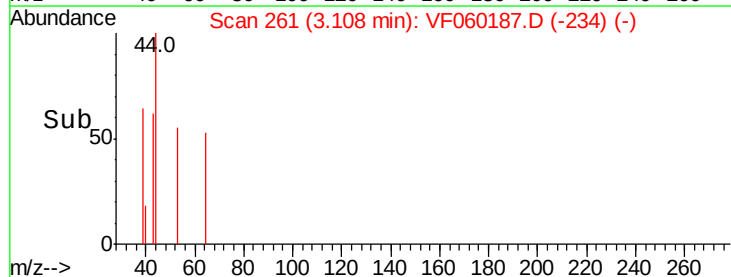
51 0.0 31.0 46.4#

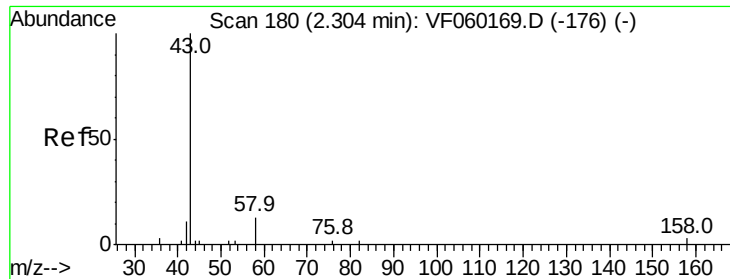


Abundance Ion 53.00 (52.70 to 53.70): VF0
Ion 52.00 (51.70 to 52.70): VF0
Ion 51.00 (50.70 to 51.70): VF0



Time-->





#16

Acetone

Concen: Below Cal

RT: 2.35 min Scan# 184

Delta R.T. 0.05 min

Lab File: VF060187.D

Acq: 29 Aug 2018 10:35

Instrument :

MSVOA_F

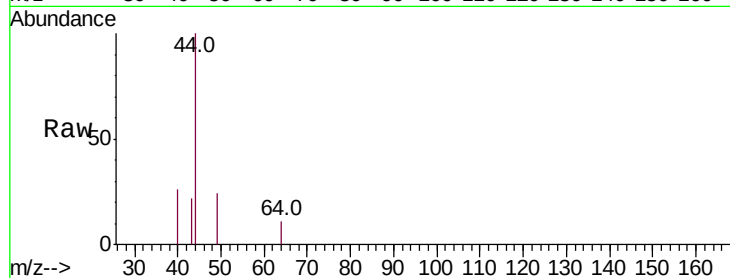
ClientSampleId :

Tot Ion: 43 Resp: 186

Ion Ratio Lower Upper

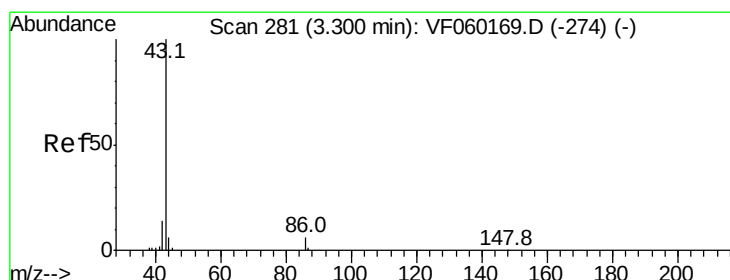
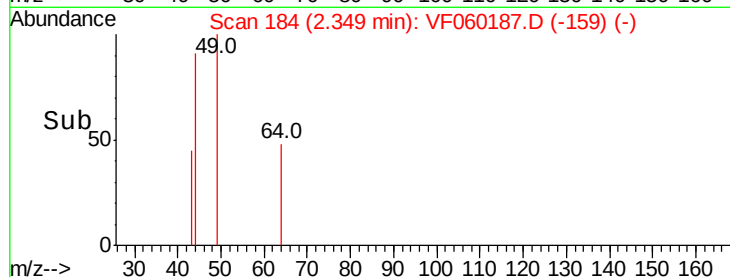
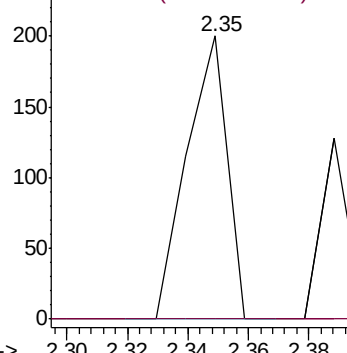
43 100

58 0.0 10.7 16.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#23

Vinyl Acetate

Concen: 26.732 ug/l

RT: 3.31 min Scan# 281

Delta R.T. 0.01 min

Lab File: VF060187.D

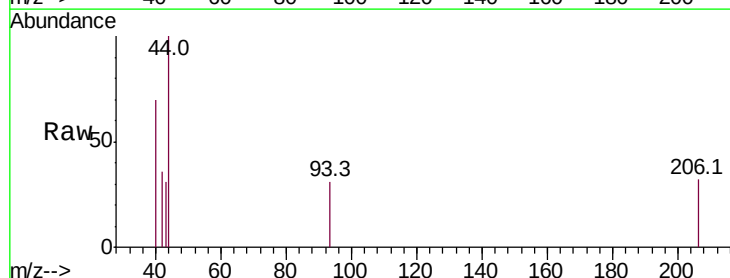
Acq: 29 Aug 2018 10:35

Tgt Ion: 43 Resp: 64

Ion Ratio Lower Upper

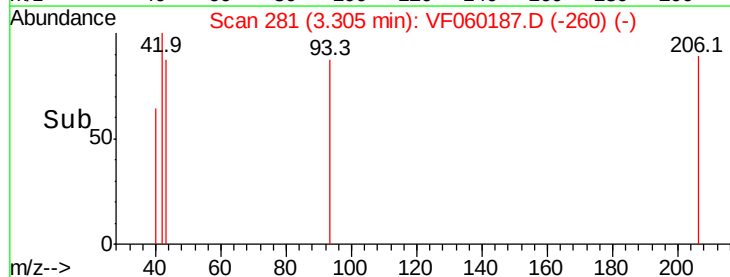
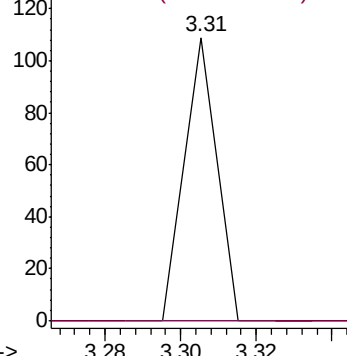
43 100

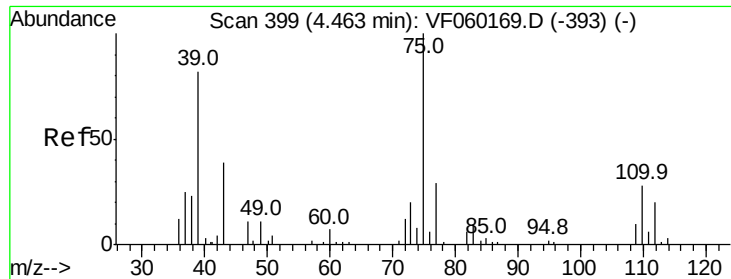
86 0.0 4.9 7.3#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0





#25

2-Butanone

Concen: 1.605 ug/l

RT: 4.40 min Scan# 392

Delta R.T. -0.06 min

Lab File: VF060187.D

Acq: 29 Aug 2018 10:35

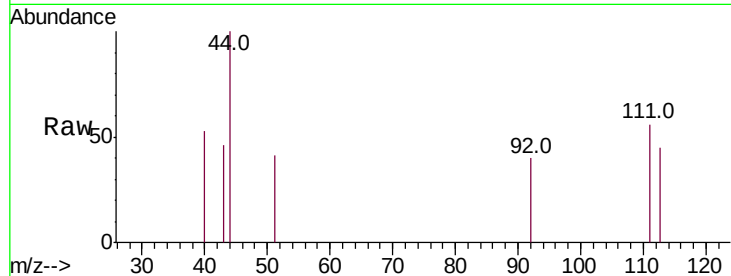
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 70

Ion Ratio Lower Upper

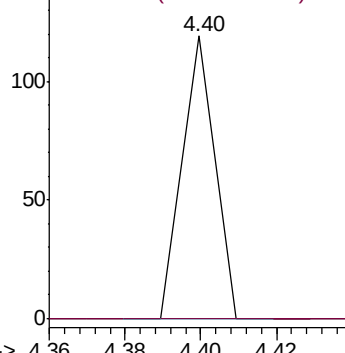
43 100

72 0.0 24.2 36.2#

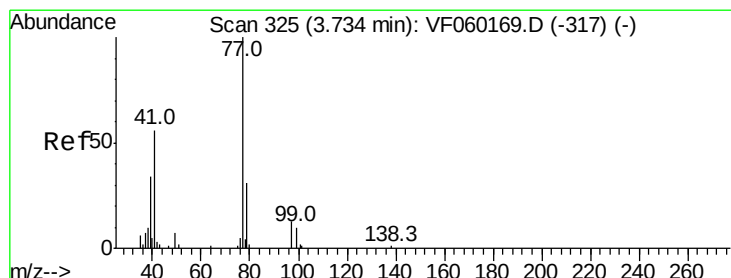
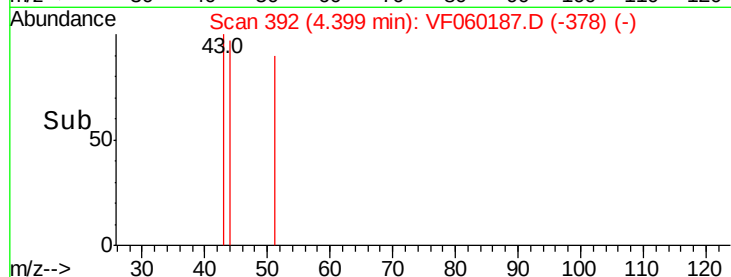


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



Time--> 4.36 4.38 4.40 4.42



#26

2,2-Dichloropropane

Concen: 4.019 ug/l

RT: 3.68 min Scan# 319

Delta R.T. -0.05 min

Lab File: VF060187.D

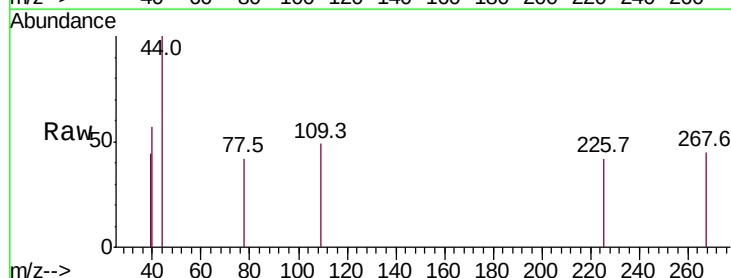
Acq: 29 Aug 2018 10:35

Tgt Ion: 77 Resp: 63

Ion Ratio Lower Upper

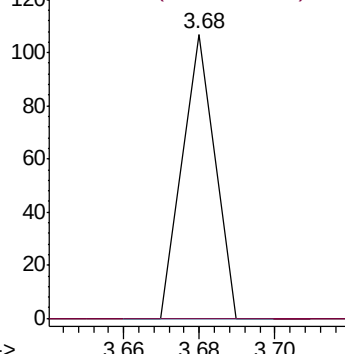
77 100

97 0.0 7.0 21.0#

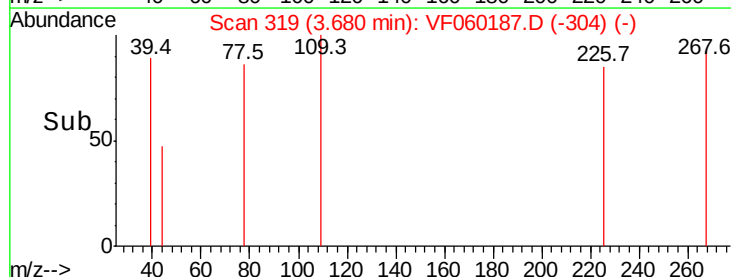


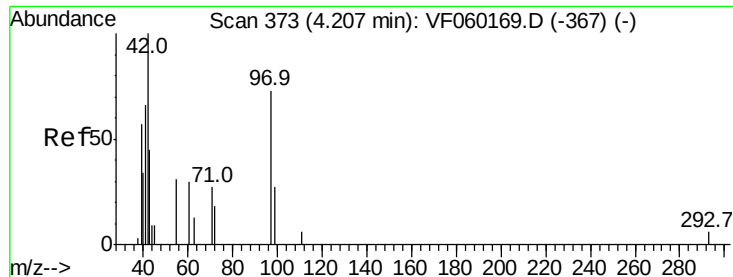
Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0



Time--> 3.66 3.68 3.70





#29

Tetrahydrofuran

Concen: 16.940 ug/l

RT: 4.42 min Scan# 394

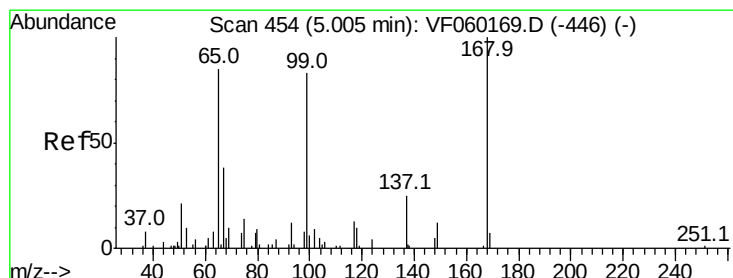
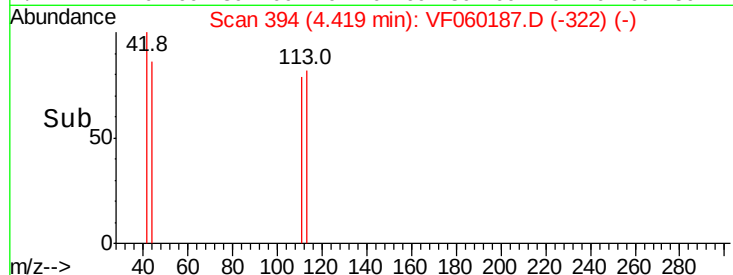
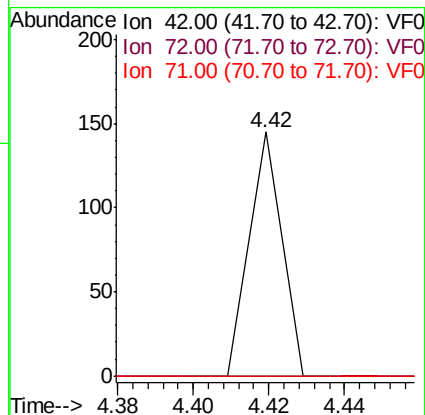
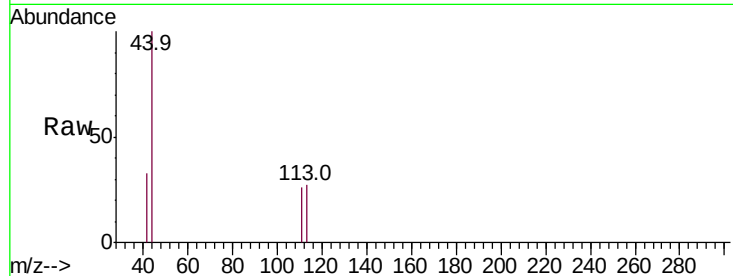
Delta R.T. 0.21 min

Lab File: VF060187.D

Acq: 29 Aug 2018 10:35

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	42	Resp:	86
Ion	Ratio	Lower	Upper
42	100		
72	0.0	27.0	40.4#
71	0.0	24.6	36.8#



#33

1,2-Dichloroethane-d4

Concen: 46.470 ug/l

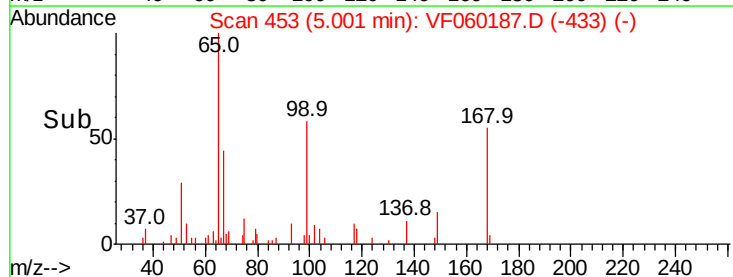
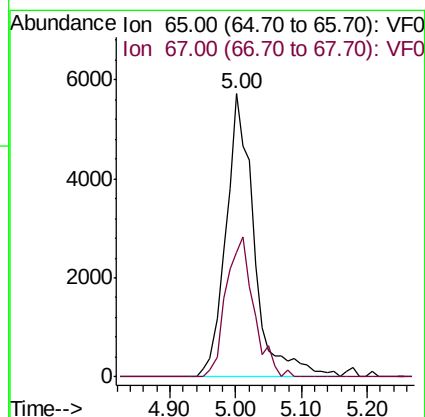
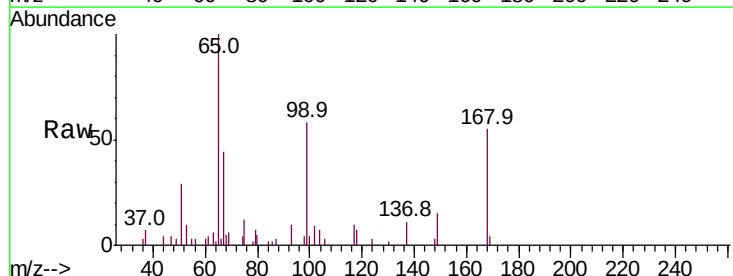
RT: 5.00 min Scan# 453

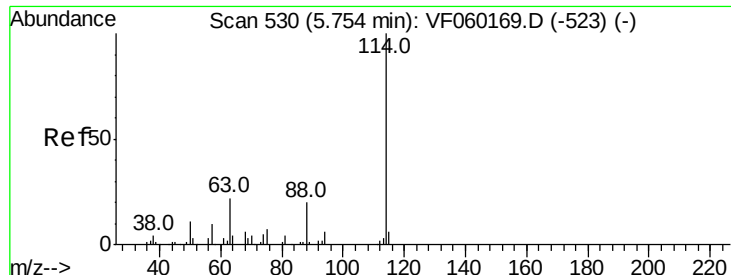
Delta R.T. -0.00 min

Lab File: VF060187.D

Acq: 29 Aug 2018 10:35

Tgt Ion:	65	Resp:	17200
Ion	Ratio	Lower	Upper
65	100		
67	43.9	0.0	92.6

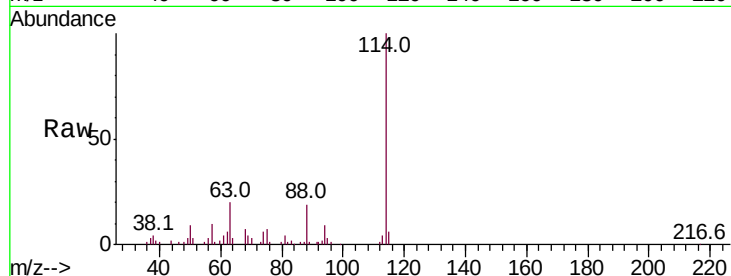




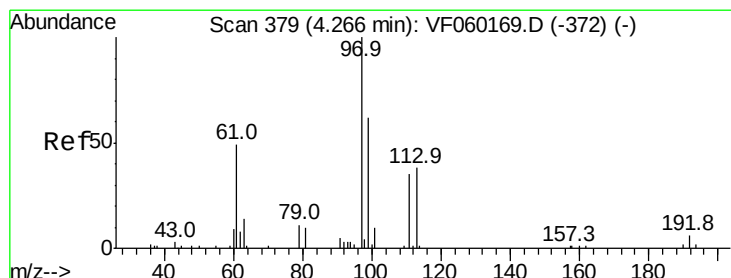
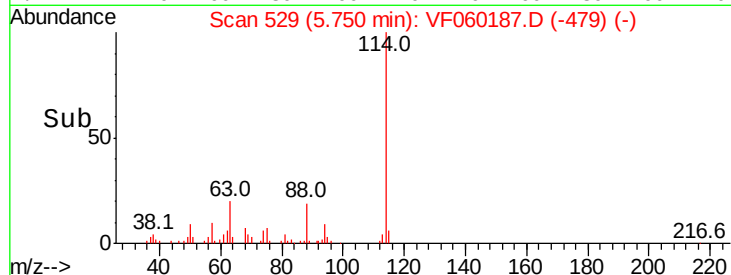
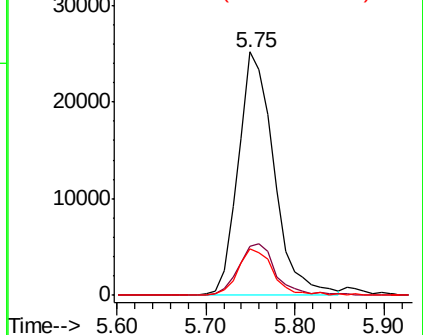
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.75 min Scan# 529
Delta R.T. -0.00 min
Lab File: VF060187.D
Acq: 29 Aug 2018 10:35

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:114 Resp: 70201
Ion Ratio Lower Upper
114 100
63 19.9 0.0 45.8
88 19.3 0.0 40.2

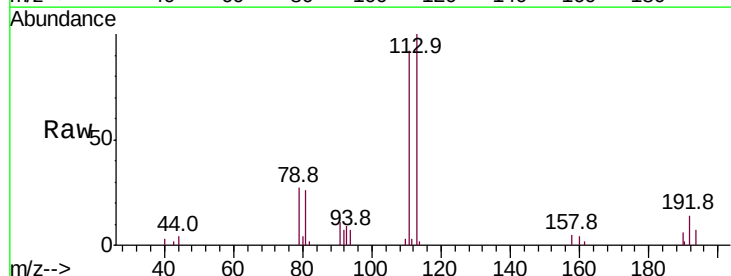


Abundance Ion 114.00 (113.70 to 114.70): V
Ion 63.00 (62.70 to 63.70): VF0
Ion 88.00 (87.70 to 88.70): VF0

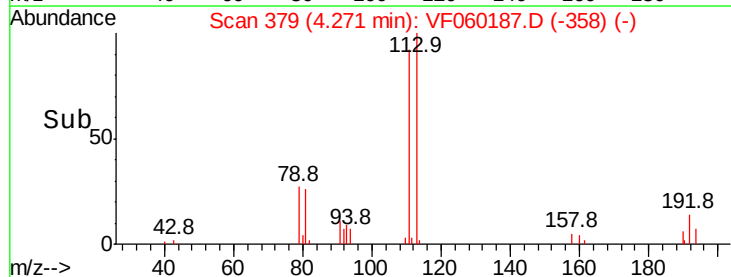
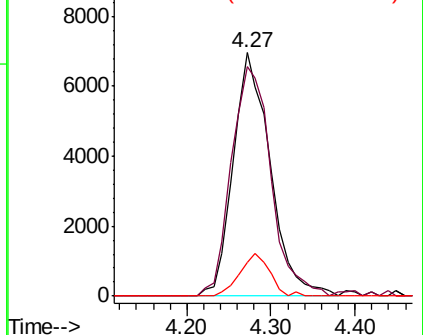


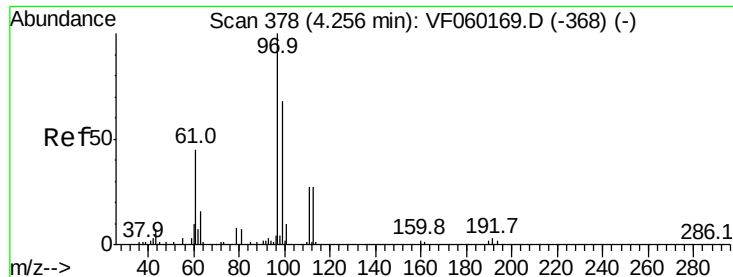
#35
Dibromofluoromethane
Concen: 47.366 ug/l
RT: 4.27 min Scan# 379
Delta R.T. 0.01 min
Lab File: VF060187.D
Acq: 29 Aug 2018 10:35

Tgt Ion:113 Resp: 21391
Ion Ratio Lower Upper
113 100
111 94.3 75.5 113.3
192 14.1 12.5 18.7



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

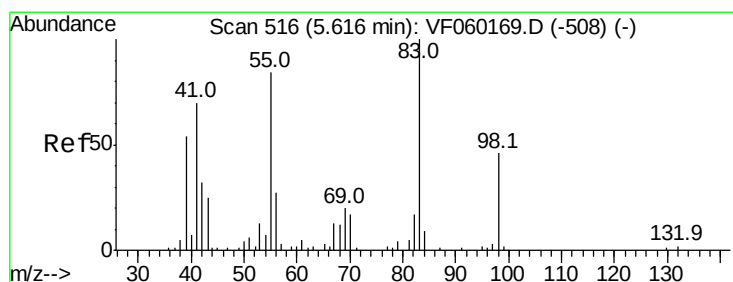
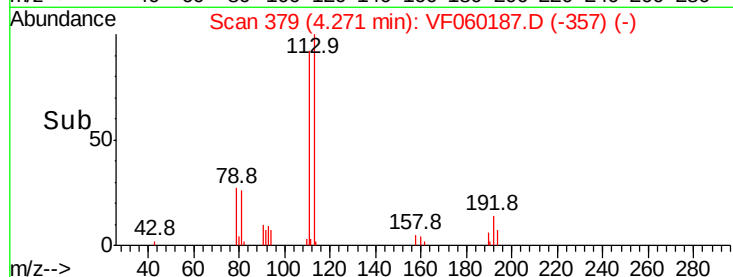
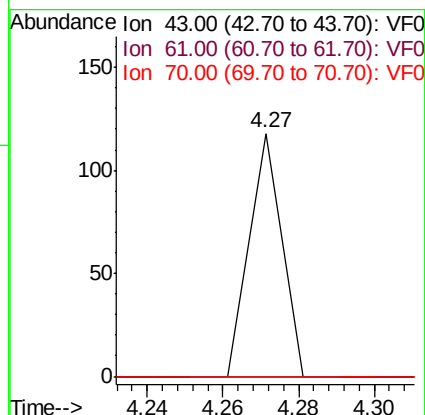
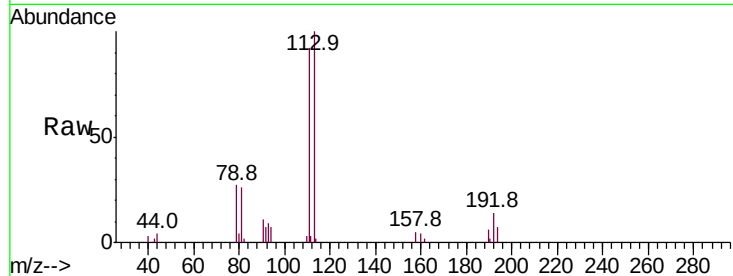




#37
Ethyl Acetate
Concen: 4.491 ug/l
RT: 4.27 min Scan# 379
Delta R.T. 0.02 min
Lab File: VF060187.D
Acq: 29 Aug 2018 10:35

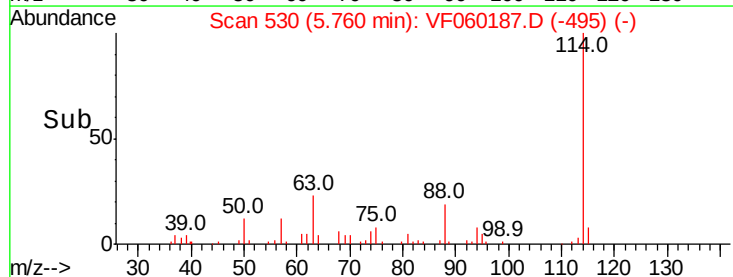
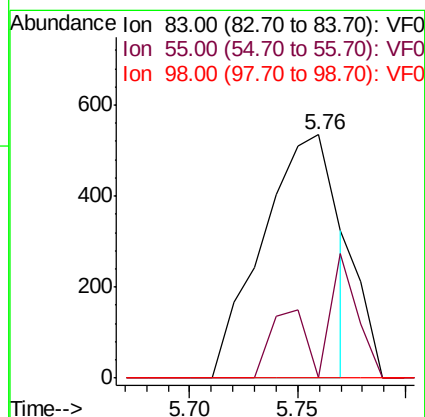
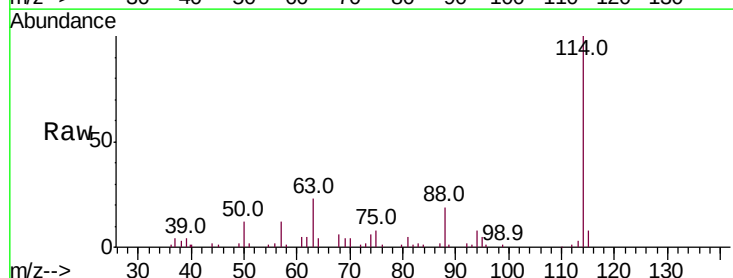
Instrument :
MSVOA_F
ClientSampleId :

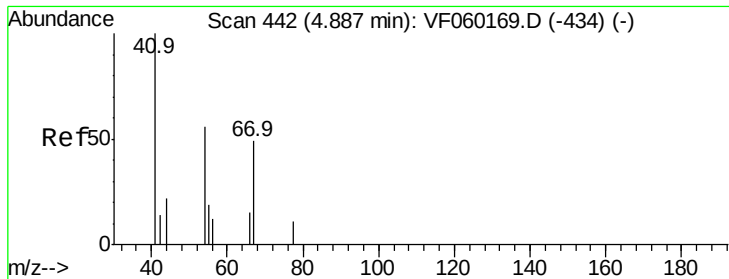
Tot Ion: 43 Resp: 70
Ion Ratio Lower Upper
43 100
61 0.0 517.6 776.4#
70 0.0 15.4 23.2#



#39
Methylcyclohexane
Concen: 1.375 ug/l
RT: 5.76 min Scan# 530
Delta R.T. 0.14 min
Lab File: VF060187.D
Acq: 29 Aug 2018 10:35

Tgt Ion: 83 Resp: 1290
Ion Ratio Lower Upper
83 100
55 0.0 67.4 101.2#
98 0.0 37.0 55.6#

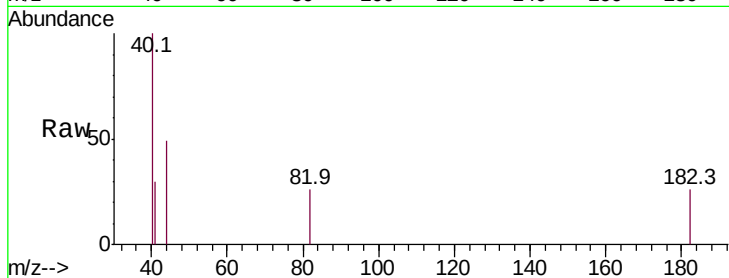




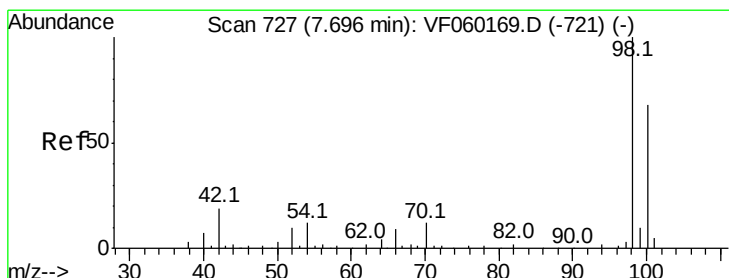
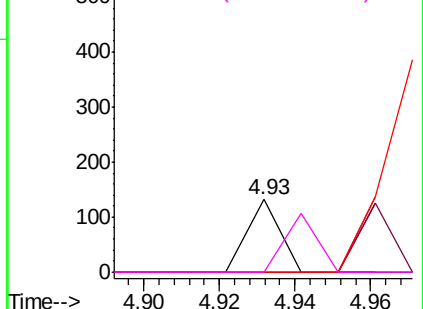
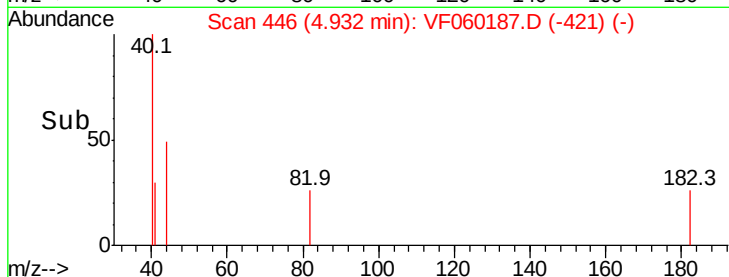
#41
Methacrylonitrile
Concen: 1.152 ug/l
RT: 4.93 min Scan# 446
Delta R.T. 0.04 min
Lab File: VF060187.D
Acq: 29 Aug 2018 10:35

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	41	Resp:	78
Ion	Ratio	Lower	Upper
41	100		
39	0.0	45.0	67.6#
67	0.0	39.5	59.3#
52	0.0	28.5	42.7#

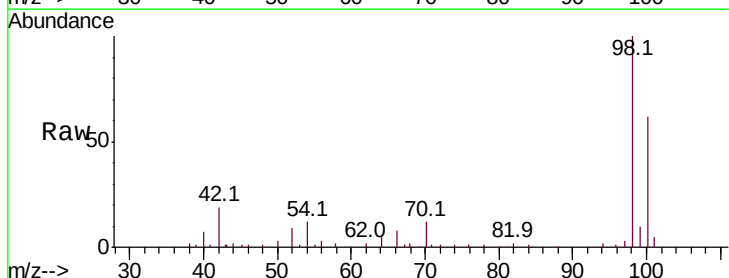


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0

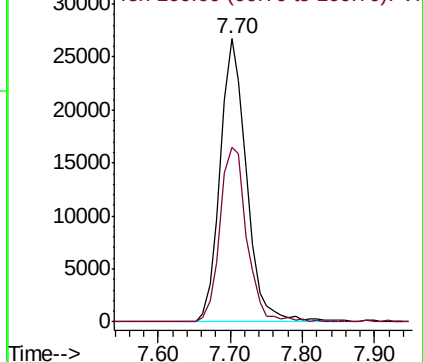
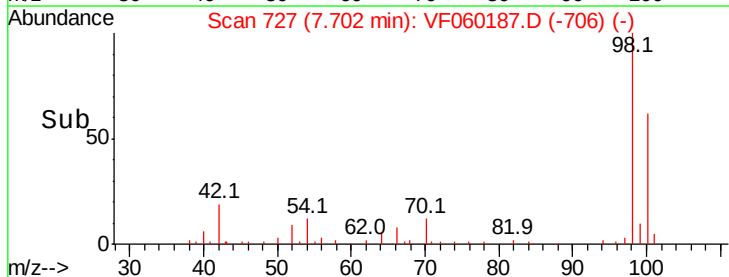


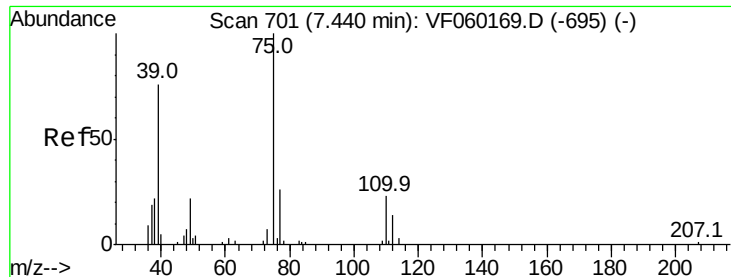
#50
Toluene-d8
Concen: 43.805 ug/l
RT: 7.70 min Scan# 727
Delta R.T. 0.01 min
Lab File: VF060187.D
Acq: 29 Aug 2018 10:35

Tgt Ion:	98	Resp:	67675
Ion	Ratio	Lower	Upper
98	100		
100	61.9	54.5	81.7



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0





#54

cis-1,3-Dichloropropene

Concen: 5.489 ug/l

RT: 7.52 min Scan# 709

Delta R.T. 0.08 min

Lab File: VF060187.D

Acq: 29 Aug 2018 10:35

Instrument :

MSVOA_F

ClientSampled :

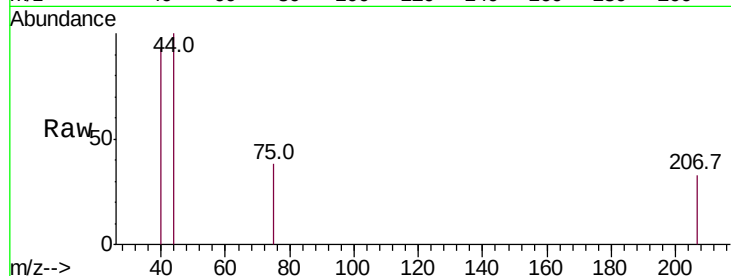
Tot Ion: 75 Resp: 72

Ion Ratio Lower Upper

75 100

77 0.0 20.7 31.1#

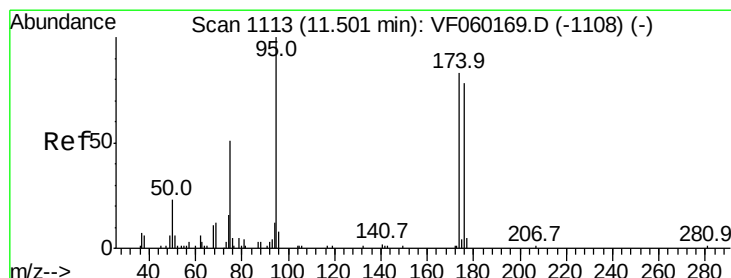
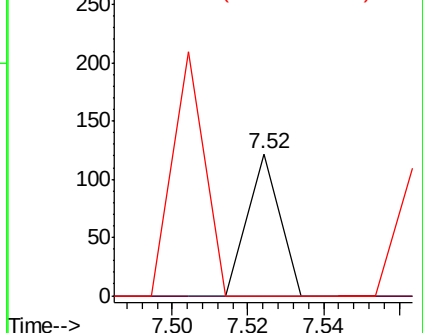
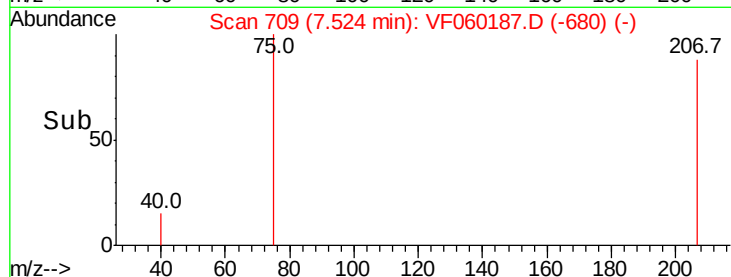
39 0.0 60.9 91.3#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#62

4-Bromofluorobenzene

Concen: 31.015 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VF060187.D

Acq: 29 Aug 2018 10:35

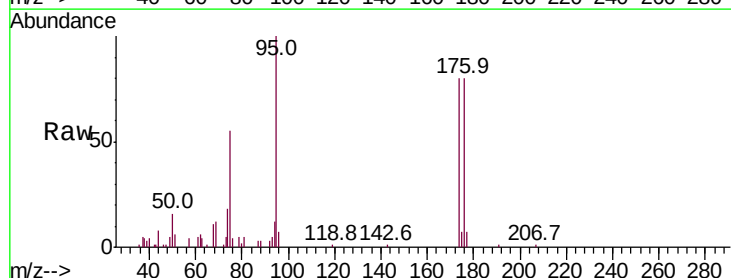
Tgt Ion: 95 Resp: 17669

Ion Ratio Lower Upper

95 100

174 80.2 0.0 165.2

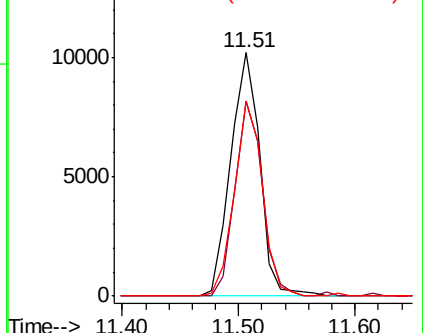
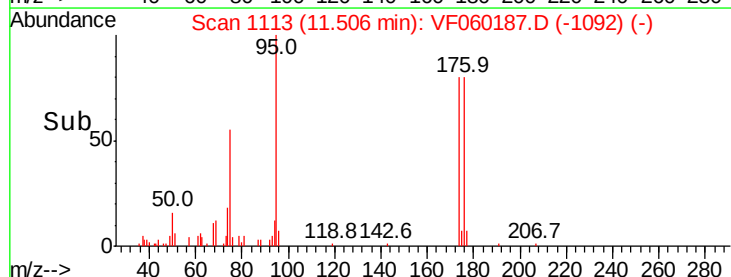
176 80.2 0.0 156.6

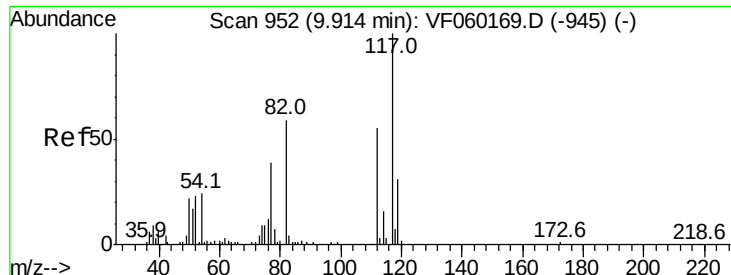


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

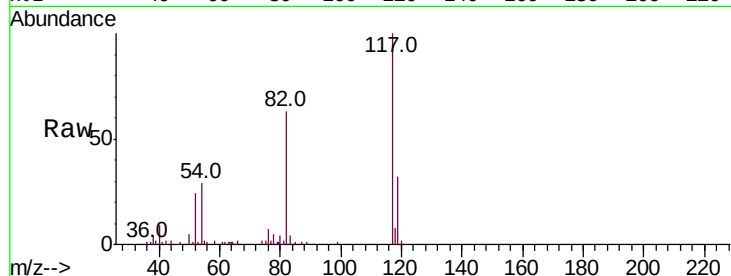




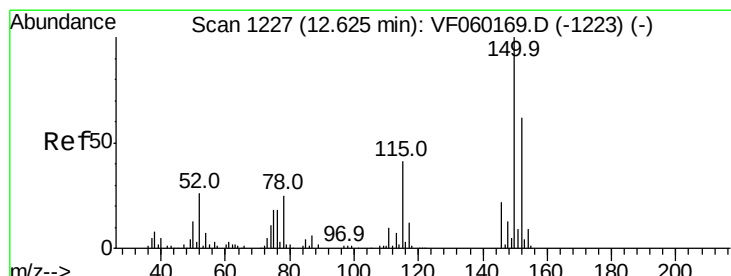
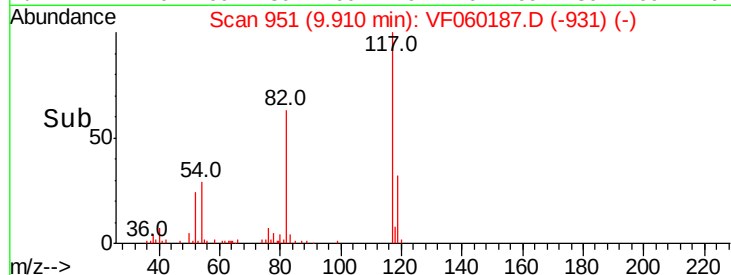
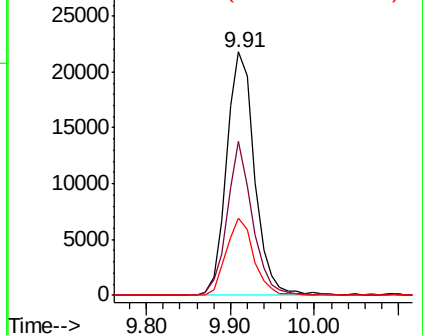
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.00 min
Lab File: VF060187.D
Acq: 29 Aug 2018 10:35

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:117 Resp: 50351
Ion Ratio Lower Upper
117 100
82 63.2 47.2 70.8
119 31.9 25.0 37.4

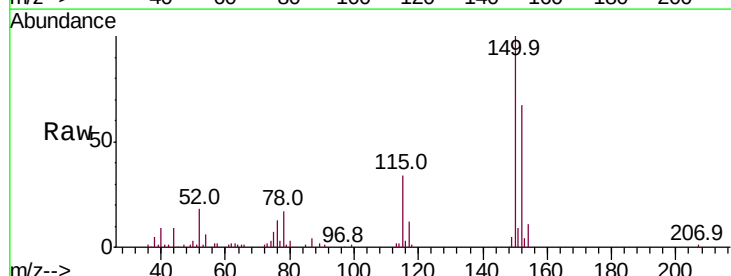


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

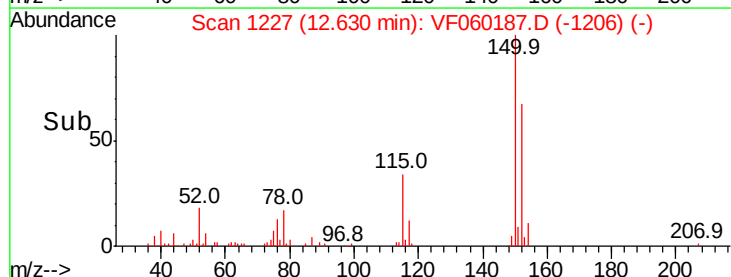
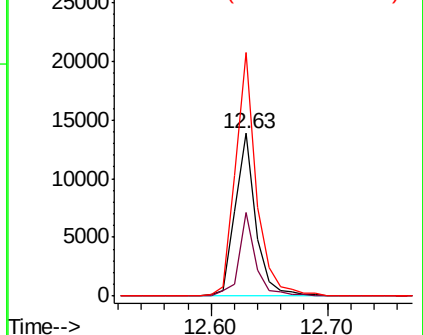


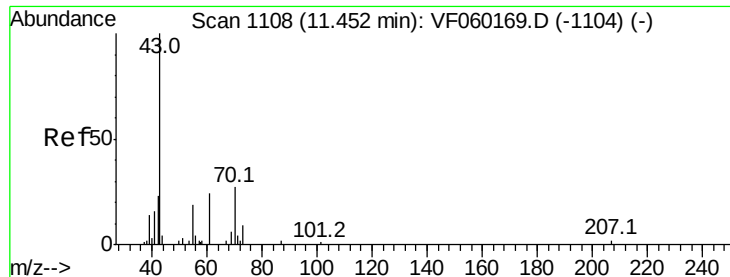
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1227
Delta R.T. 0.01 min
Lab File: VF060187.D
Acq: 29 Aug 2018 10:35

Tgt Ion:152 Resp: 17119
Ion Ratio Lower Upper
152 100
115 51.4 33.2 99.6
150 149.7 0.0 325.6



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#74

N-amvl acetate

Concen: 1.047 ug/l

RT: 11.45 min Scan# 1107

Delta R.T. -0.00 min

Lab File: VF060187.D

Acq: 29 Aug 2018 10:35

Instrument :

MSVOA_F

ClientSampled :

Tot Ion: 43 Resp: 147

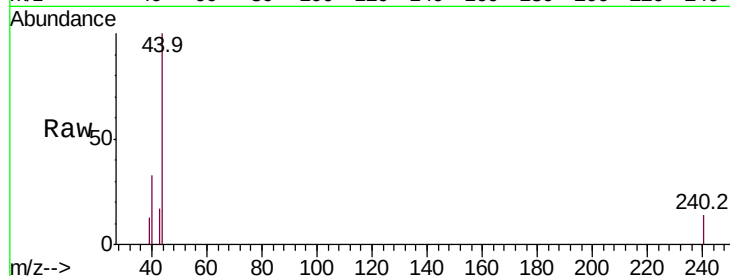
Ion Ratio Lower Upper

43 100

70 0.0 22.0 33.0#

55 0.0 15.2 22.8#

61 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

250

200

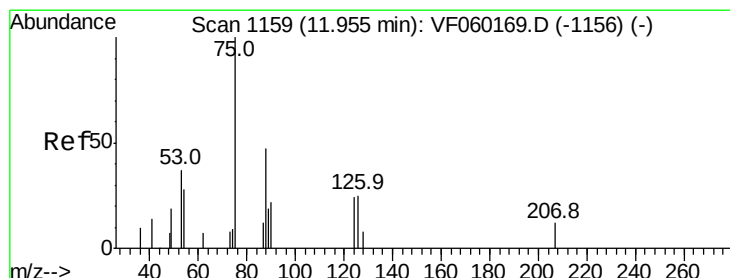
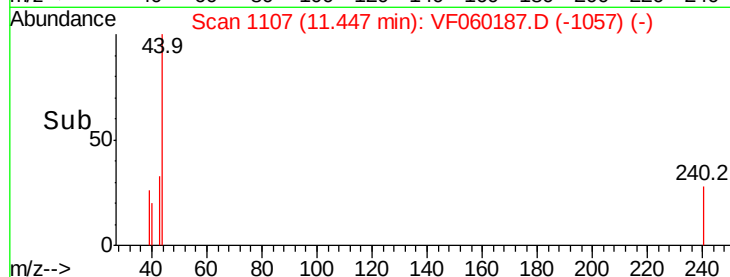
150

100

50

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 6.308 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. -0.00 min

Lab File: VF060187.D

Acq: 29 Aug 2018 10:35

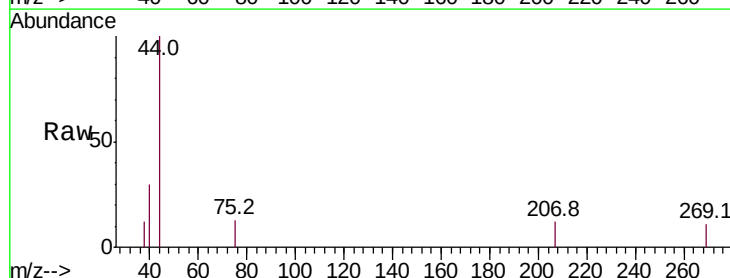
Tgt Ion: 75 Resp: 79

Ion Ratio Lower Upper

75 100

53 0.0 53.4 80.0#

89 0.0 28.9 43.3#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0

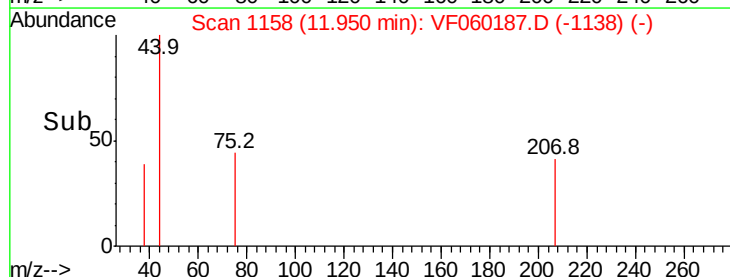
150

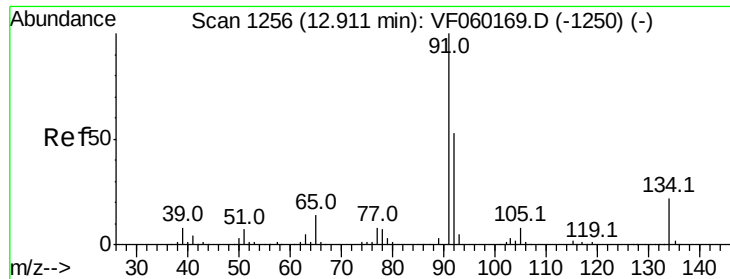
100

50

0

Time-->

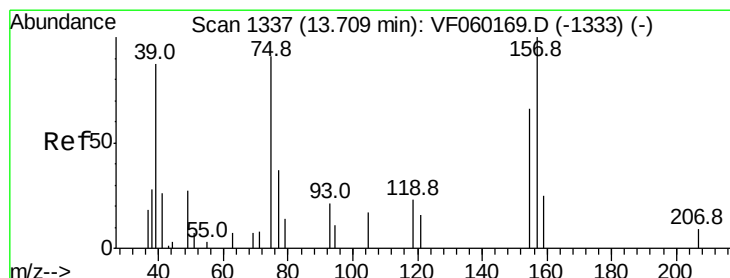
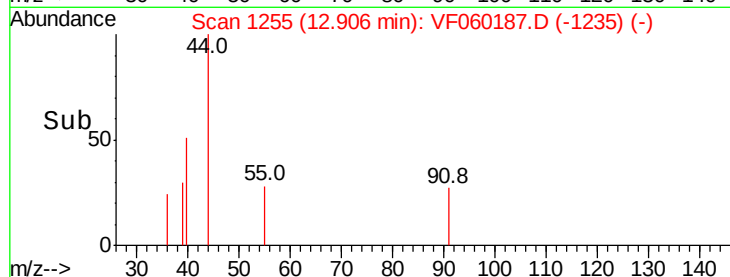
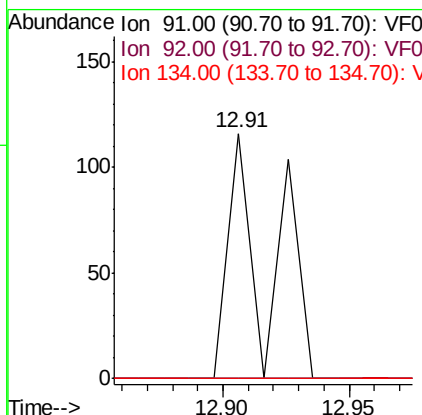
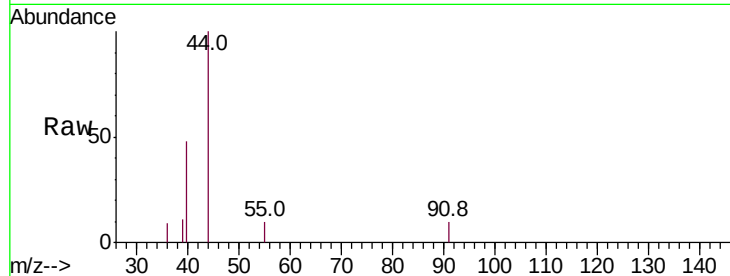




#89
n-Butylbenzene
Concen: 3.711 ug/l
RT: 12.91 min Scan# 1255
Delta R.T. -0.00 min
Lab File: VF060187.D
Acq: 29 Aug 2018 10:35

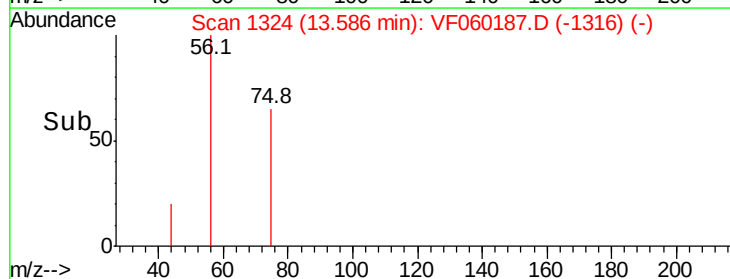
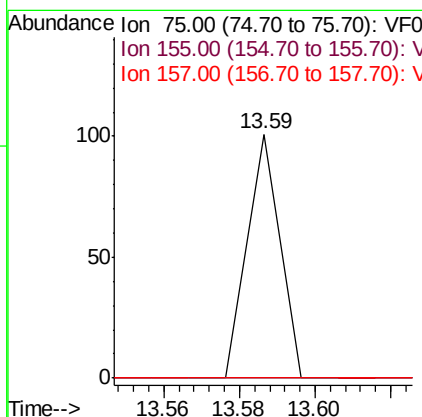
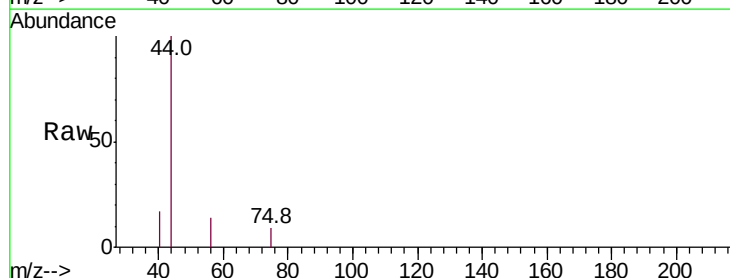
Instrument :
MSVOA_F
ClientSampleId :

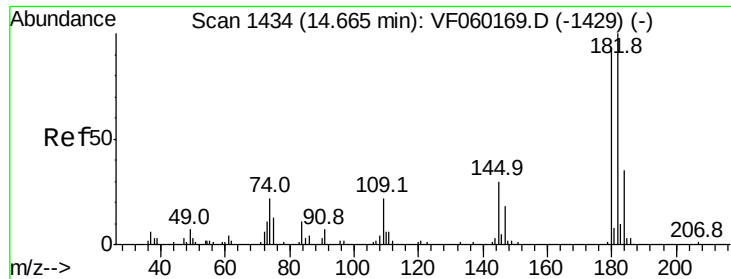
Tot Ion: 91 Resp: 130
Ion Ratio Lower Upper
91 100
92 0.0 26.7 80.0#
134 0.0 11.0 33.0#



#92
1,2-Dibromo-3-Chloropropane
Concen: 2.785 ug/l
RT: 13.59 min Scan# 1324
Delta R.T. -0.12 min
Lab File: VF060187.D
Acq: 29 Aug 2018 10:35

Tgt Ion: 75 Resp: 60
Ion Ratio Lower Upper
75 100
155 0.0 36.0 108.0#
157 0.0 54.9 164.5#





#96
 1,2,3-Trichlorobenzene
 Concen: 5.826 ug/l
 RT: 14.66 min Scan# 1433
 Delta R.T. -0.00 min
 Lab File: VF060187.D
 Acq: 29 Aug 2018 10:35

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	53.6	160.8#
145	0.0	16.2	48.6#

