

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF092518\
 Data File : VF060339.D
 Acq On : 25 Sep 2018 21:55
 Operator : VA/AP
 Sample : J5055-04
 Misc : 5.77/5mL/MSVOA_F/SOIL
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-A

Quant Time: Sep 26 01:48:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F091918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 20 02:58:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	353072	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.75	114	611041	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.91	117	451265	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.63	152	183114	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.00	65	245988	51.74	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	103.48%	
35) Dibromofluoromethane	4.28	113	294440	54.06	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	108.12%	
50) Toluene-d8	7.70	98	648390	45.71	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	91.42%	
62) 4-Bromofluorobenzene	11.50	95	240126	39.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.32%	

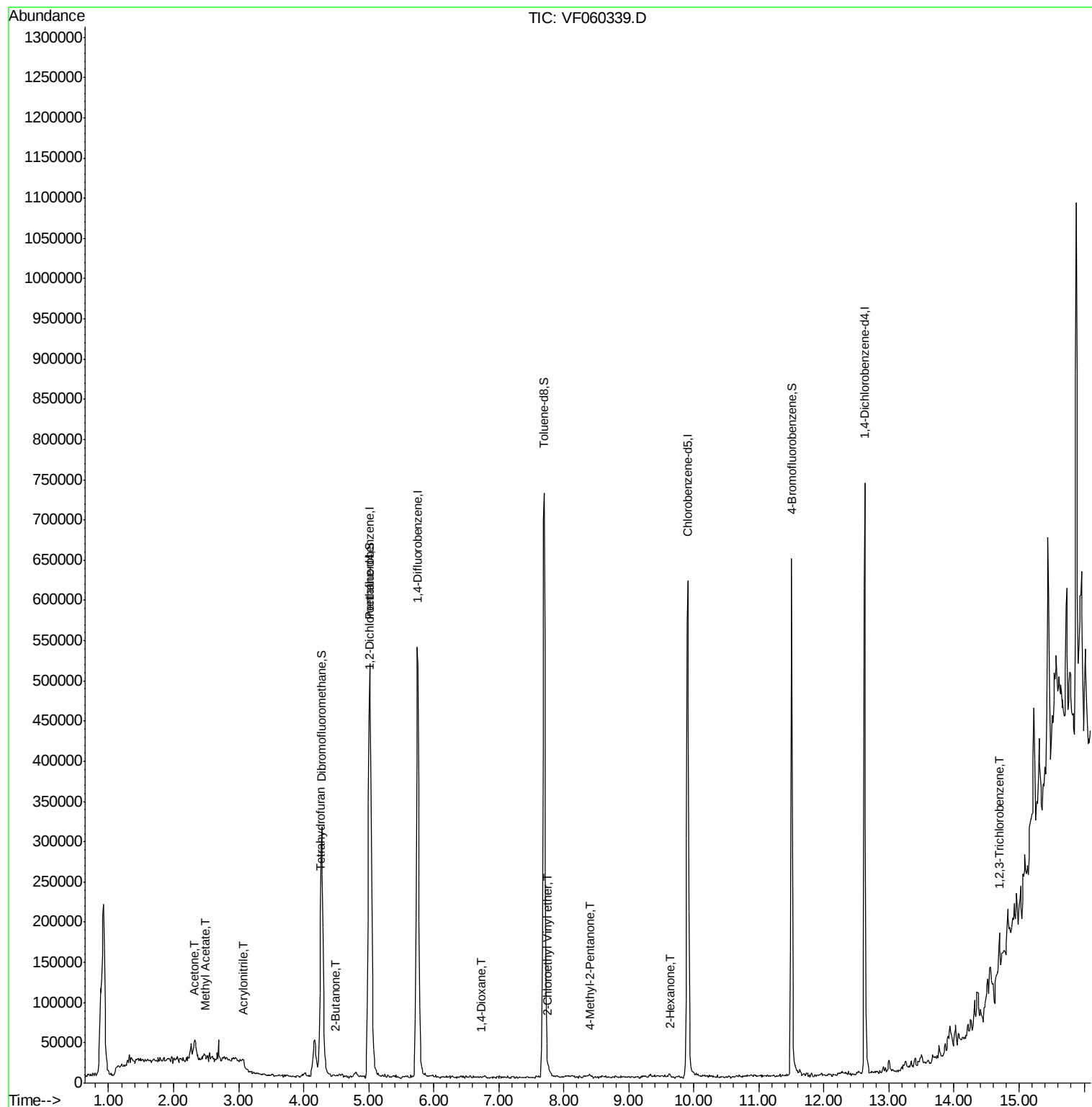
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.99	85	611	Below Cal		87
5) Bromomethane	1.19	94	177	Below Cal		90
11) Tert butyl alcohol	2.67	59	1485	Below Cal	#	1
13) Acrolein	2.11	56	552	Below Cal	#	75
15) Acrylonitrile	3.05	53	698	1.040	ug/l #	59
16) Acetone	2.33	43	22561	16.850	ug/l	92
17) Carbon Disulfide	1.89	76	304	Below Cal	#	1
18) Methyl Acetate	2.49	43	4575	2.051	ug/l #	89
20) Methylene Chloride	2.28	84	9469	Below Cal	#	86
25) 2-Butanone	4.48	43	2878	1.597	ug/l #	56
29) Tetrahydrofuran	4.25	42	1454	2.203	ug/l #	51
49) 1,4-Dioxane	6.73	88	76	3.121	ug/l #	1
51) 4-Methyl-2-Pentanone	8.40	43	4599	1.537	ug/l #	79
58) 2-Chloroethyl Vinyl ether	7.76	63	590	1.665	ug/l	100
59) 2-Hexanone	9.62	43	4387	2.059	ug/l	74
78) n-propylbenzene	11.68	91	1106	Below Cal	#	61
85) sec-Butylbenzene	12.38	105	1564	Below Cal		97
86) p-Isopropyltoluene	12.53	119	1431	Below Cal	#	28
89) n-Butylbenzene	12.91	91	1970	Below Cal		95
96) 1,2,3-Trichlorobenzene	14.70	180	4905	1.156	ug/l #	15

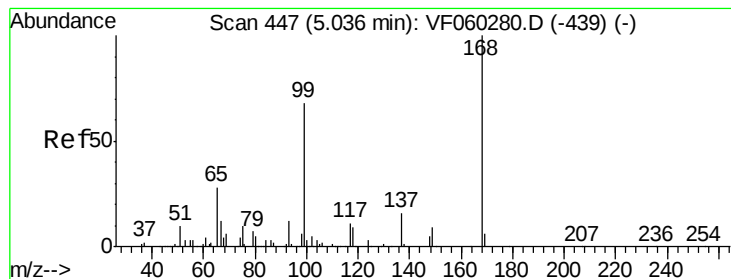
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Sep 20 02:58:42 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 446

Delta R.T. -0.01 min

Lab File: VF060339.D

Acq: 25 Sep 2018 21:55

Instrument :

MSVOA_F

ClientSampleId :

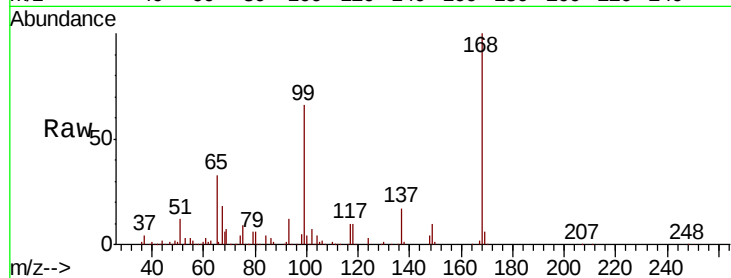
TP-A

Tgt Ion:168 Resp: 353072

Ion Ratio Lower Upper

168 100

99 66.0 54.8 82.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

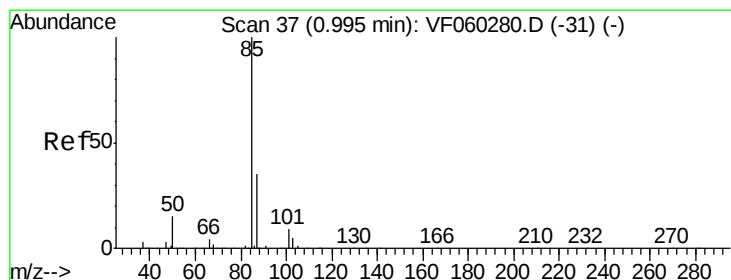
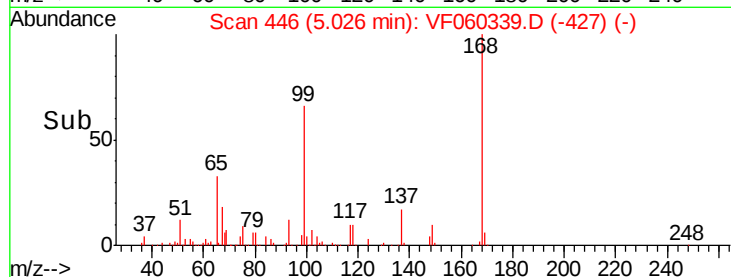
100000

50000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.99 min Scan# 37

Delta R.T. 0.00 min

Lab File: VF060339.D

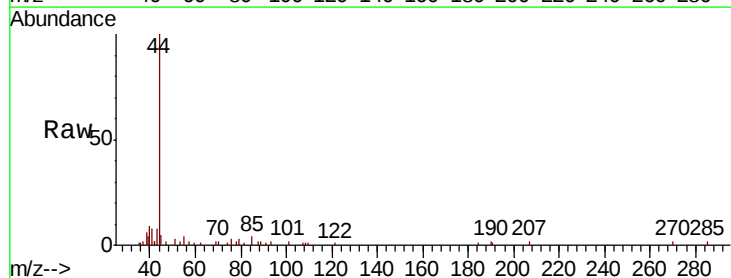
Acq: 25 Sep 2018 21:55

Tgt Ion: 85 Resp: 611

Ion Ratio Lower Upper

85 100

87 42.2 17.3 52.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.99

300

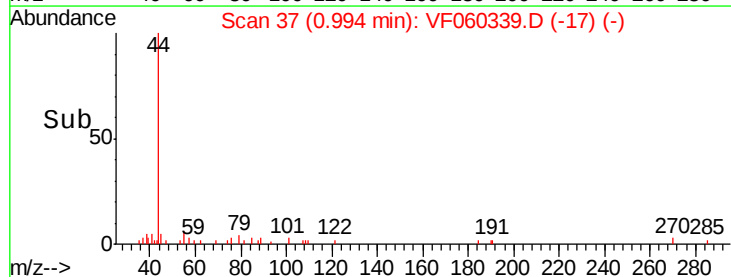
200

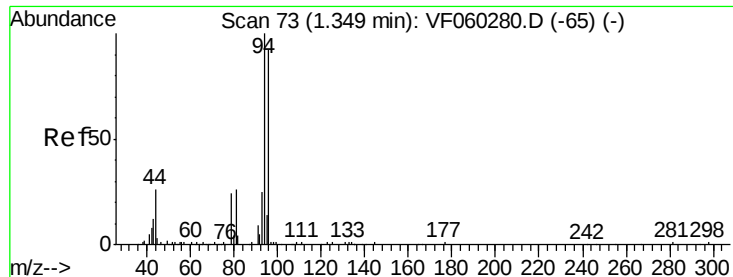
100

0

Time-->

0.95 1.00 1.05





#5

Bromomethane

Concen: Below Cal

RT: 1.19 min Scan# 57

Delta R.T. -0.16 min

Lab File: VF060339.D

Acq: 25 Sep 2018 21:55

Instrument :

MSVOA_F

ClientSampled :

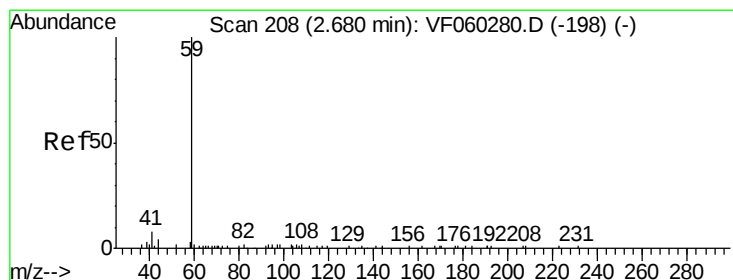
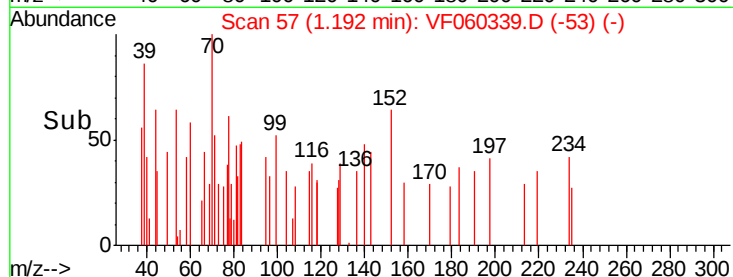
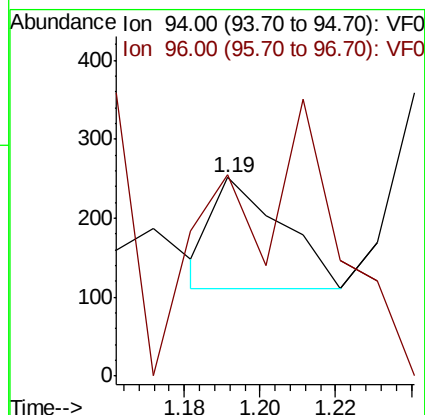
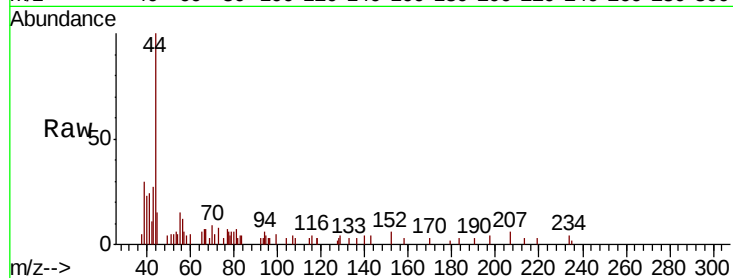
TP-A

Tgt Ion: 94 Resp: 177

Ion Ratio Lower Upper

94 100

96 101.6 73.9 110.9



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.67 min Scan# 207

Delta R.T. -0.01 min

Lab File: VF060339.D

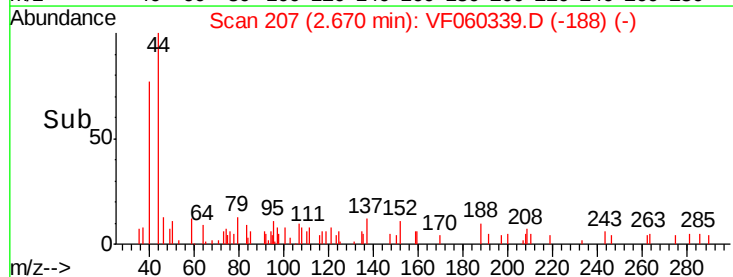
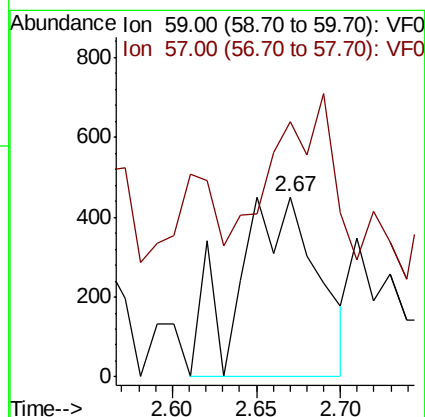
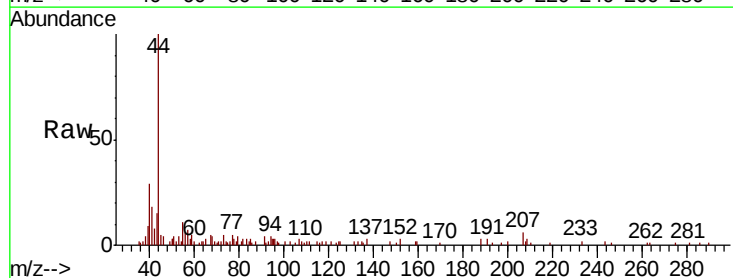
Acq: 25 Sep 2018 21:55

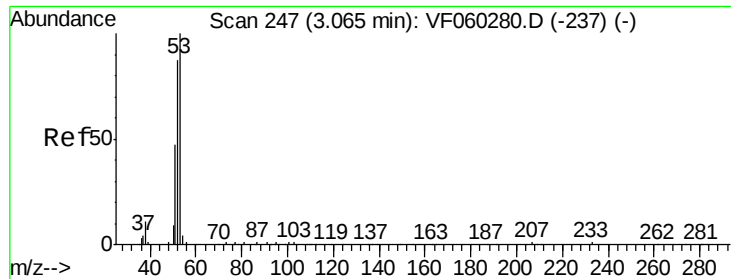
Tgt Ion: 59 Resp: 1485

Ion Ratio Lower Upper

59 100

57 141.7 12.4 18.6#





#15

Acrylonitrile

Concen: 1.040 ug/l

RT: 3.05 min Scan# 246

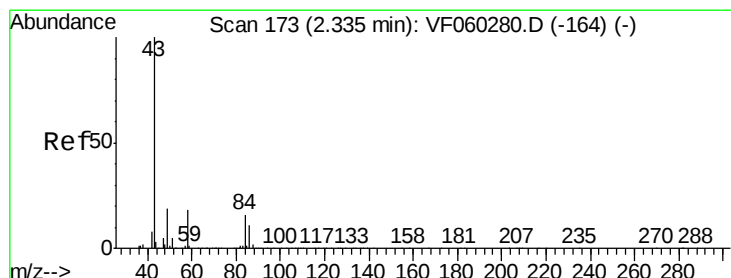
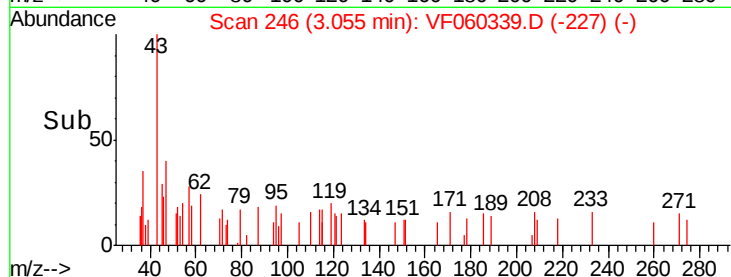
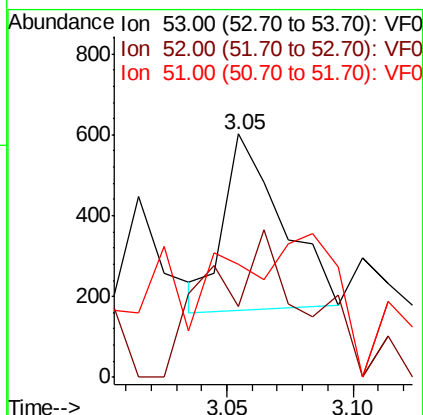
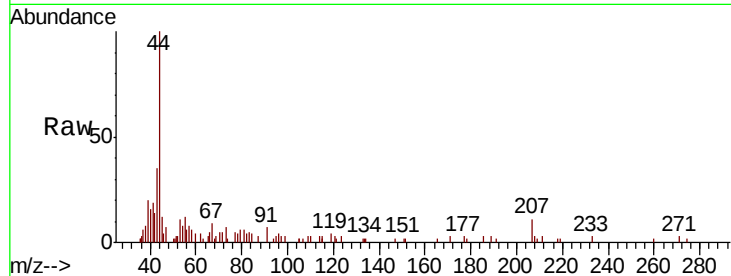
Delta R.T. -0.01 min

Lab File: VF060339.D

Acq: 25 Sep 2018 21:55

Instrument :
MSVOA_F
ClientSampleId :
TP-A

Tgt Ion:	53	Resp:	698
Ion	Ratio	Lower	Upper
53	100		
52	29.2	69.5	104.3#
51	46.5	38.1	57.1



#16

Acetone

Concen: 16.850 ug/l

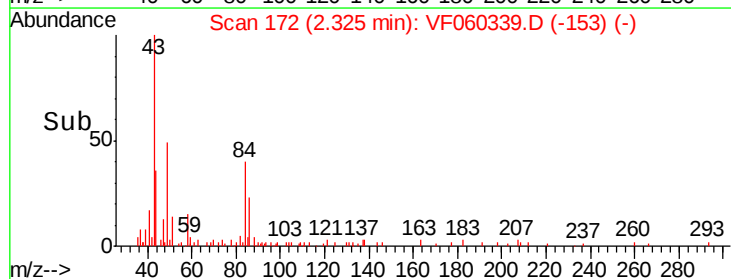
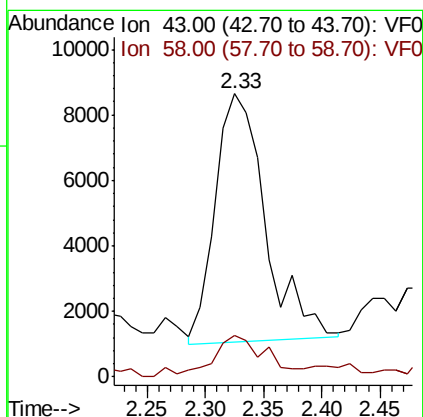
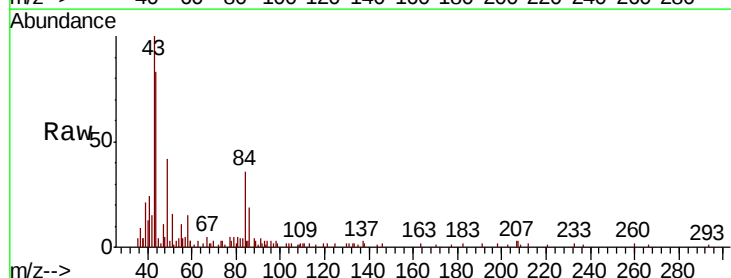
RT: 2.33 min Scan# 172

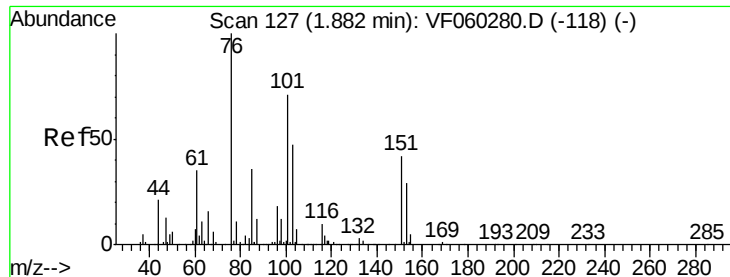
Delta R.T. -0.01 min

Lab File: VF060339.D

Acq: 25 Sep 2018 21:55

Tgt Ion:	43	Resp:	22561
Ion	Ratio	Lower	Upper
43	100		
58	14.7	14.5	21.7





#17

Carbon Disulfide

Concen: Below Cal

RT: 1.89 min Scan# 128

Delta R.T. 0.01 min

Lab File: VF060339.D

Acq: 25 Sep 2018 21:55

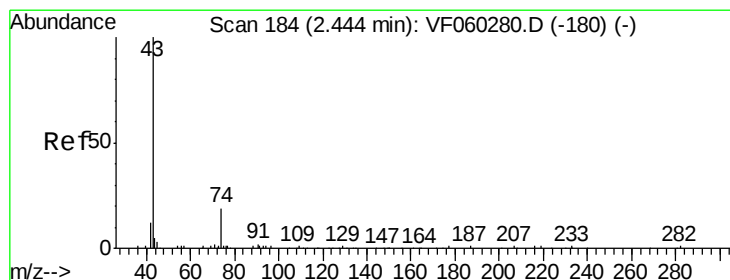
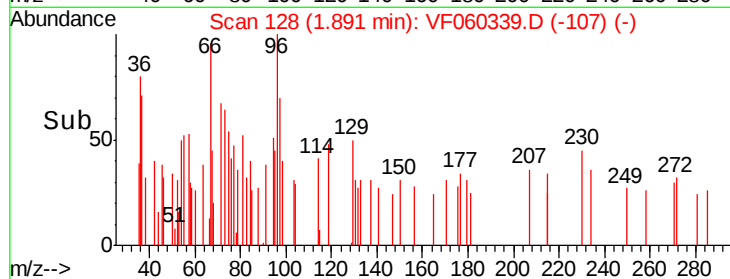
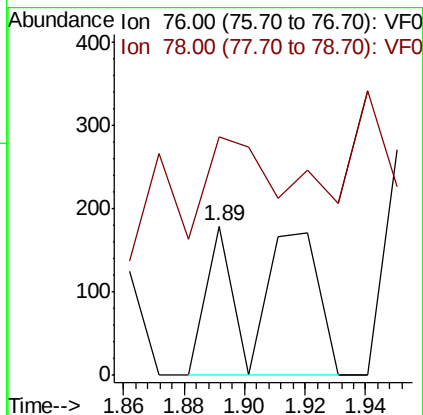
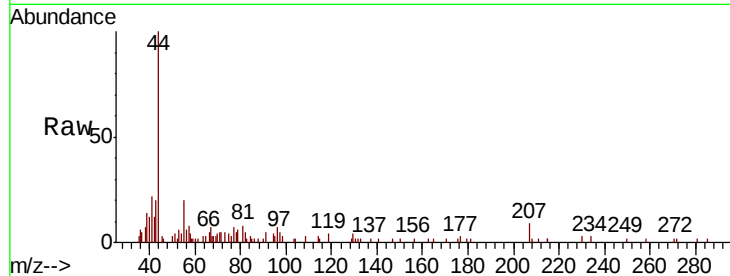
Instrument :
MSVOA_F
ClientSampled :
TP-A

Tgt Ion: 76 Resp: 304

Ion Ratio Lower Upper

76 100

78 160.7 9.4 14.0#



#18

Methyl Acetate

Concen: 2.051 ug/l

RT: 2.49 min Scan# 189

Delta R.T. 0.05 min

Lab File: VF060339.D

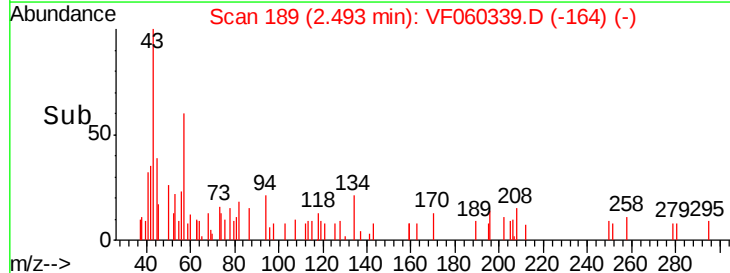
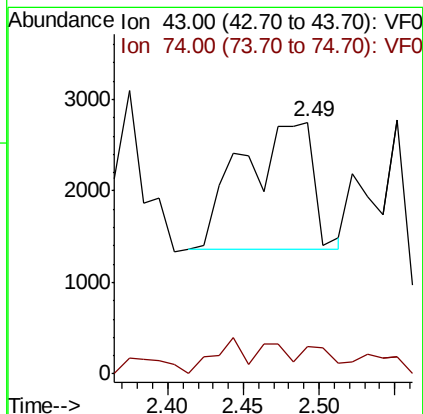
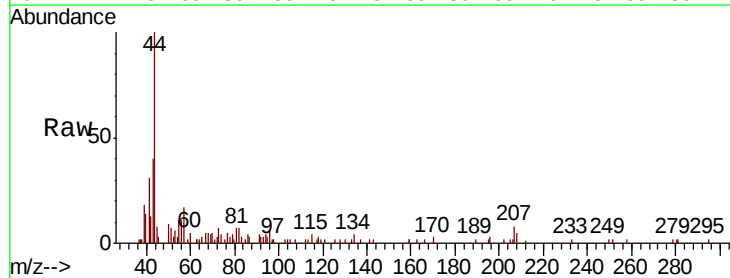
Acq: 25 Sep 2018 21:55

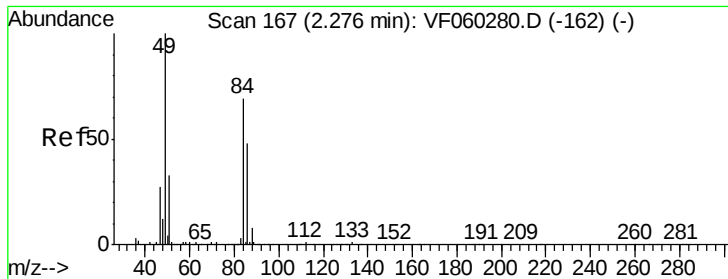
Tgt Ion: 43 Resp: 4575

Ion Ratio Lower Upper

43 100

74 11.0 12.7 19.1#

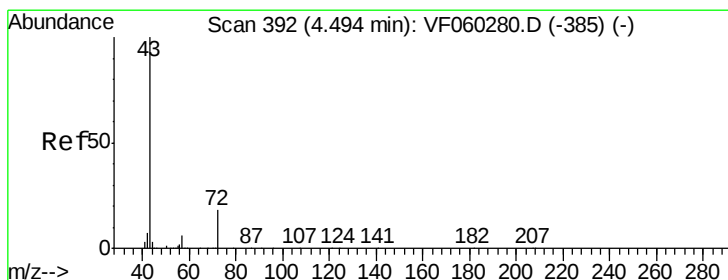
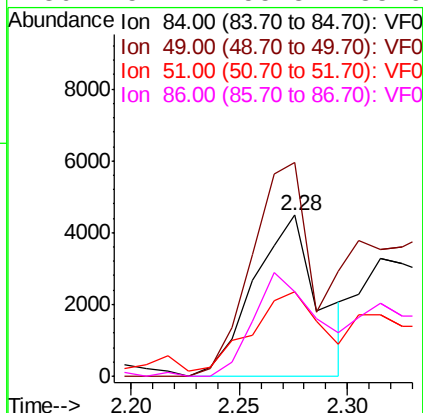
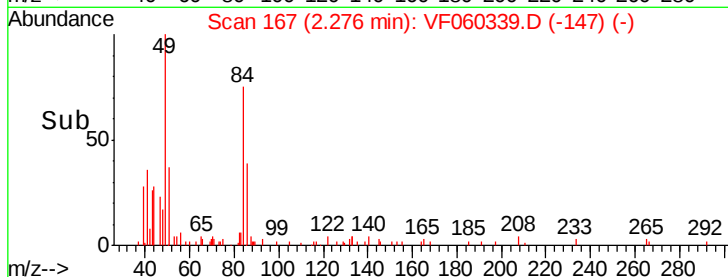
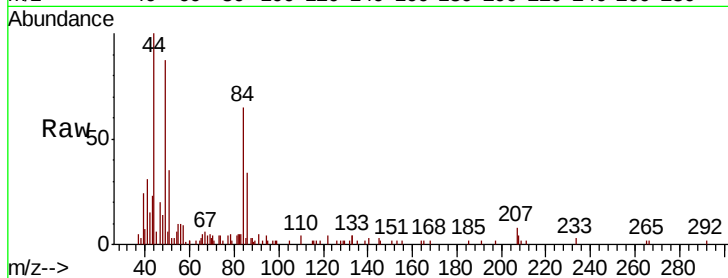




#20
Methylene Chloride
Concen: Below Cal
RT: 2.28 min Scan# 167
Delta R.T. -0.00 min
Lab File: VF060339.D
Acq: 25 Sep 2018 21:55

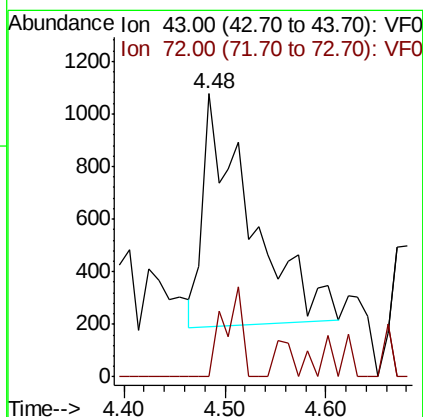
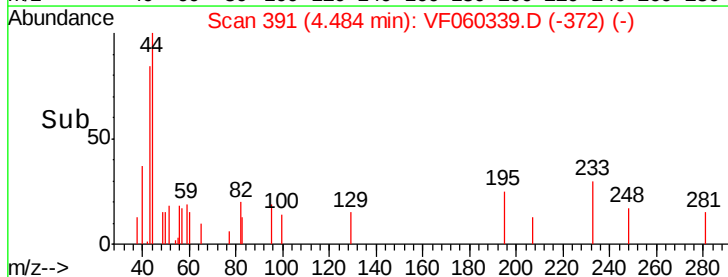
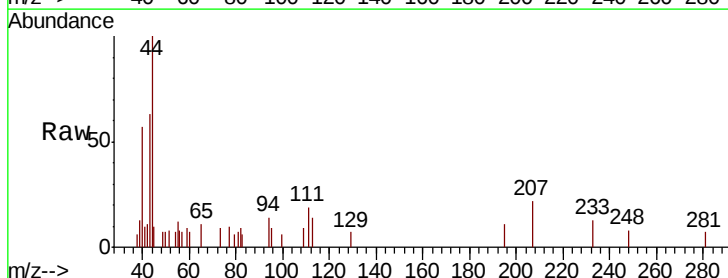
Instrument :
MSVOA_F
ClientSampled :
TP-A

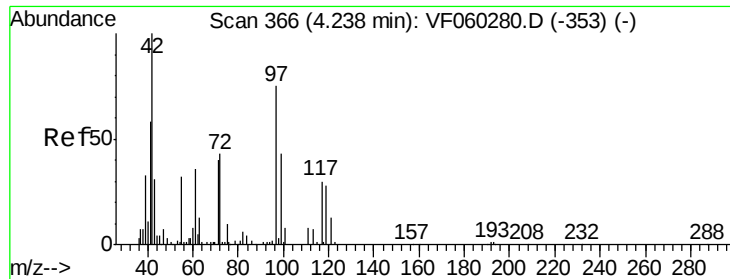
Tgt Ion: 84 Resp: 9469
Ion Ratio Lower Upper
84 100
49 132.6 118.3 177.5
51 52.7 38.7 58.1
86 52.2 55.8 83.6#



#25
2-Butanone
Concen: 1.597 ug/l
RT: 4.48 min Scan# 391
Delta R.T. -0.01 min
Lab File: VF060339.D
Acq: 25 Sep 2018 21:55

Tgt Ion: 43 Resp: 2878
Ion Ratio Lower Upper
43 100
72 0.0 16.2 24.2#





#29

Tetrahydrofuran

Concen: 2.203 ug/l

RT: 4.25 min Scan# 367

Delta R.T. 0.01 min

Lab File: VF060339.D

Acq: 25 Sep 2018 21:55

Instrument :

MSVOA_F

ClientSampled :

TP-A

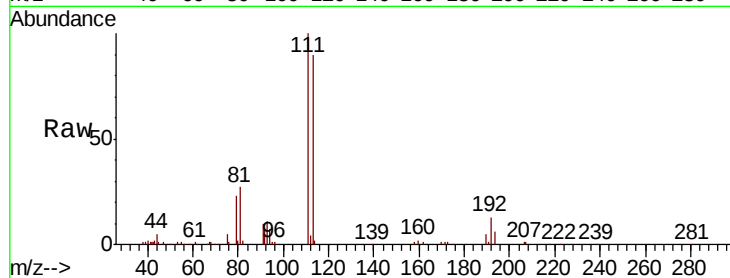
Tgt Ion: 42 Resp: 1454

Ion Ratio Lower Upper

42 100

72 0.0 32.6 49.0#

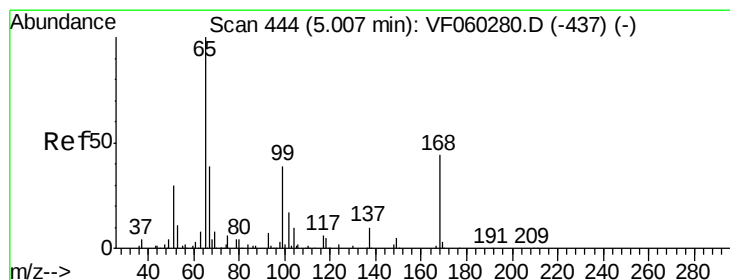
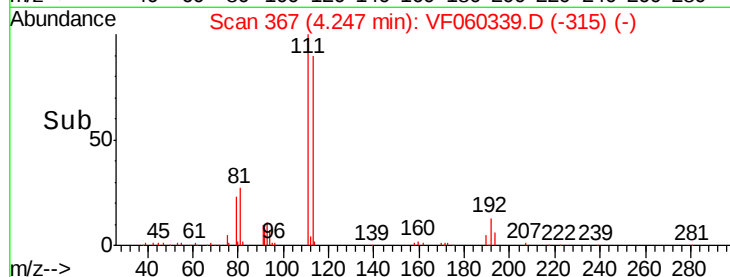
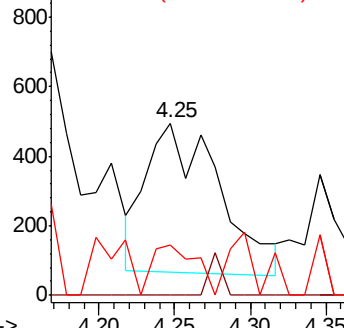
71 20.0 32.7 49.1#



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



#33

1,2-Dichloroethane-d4

Concen: 51.741 ug/l

RT: 5.00 min Scan# 443

Delta R.T. -0.01 min

Lab File: VF060339.D

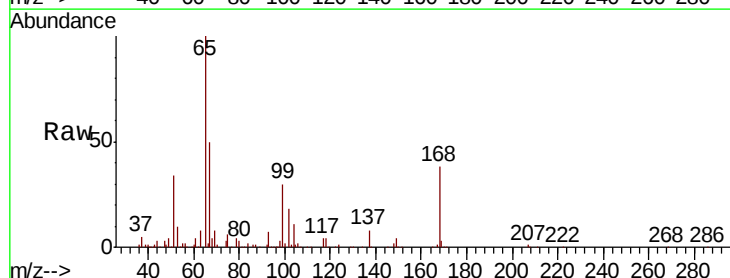
Acq: 25 Sep 2018 21:55

Tgt Ion: 65 Resp: 245988

Ion Ratio Lower Upper

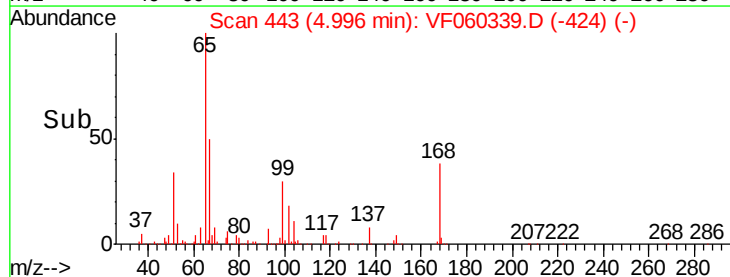
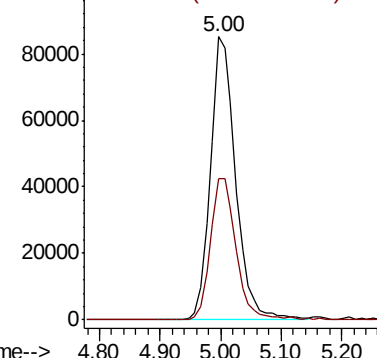
65 100

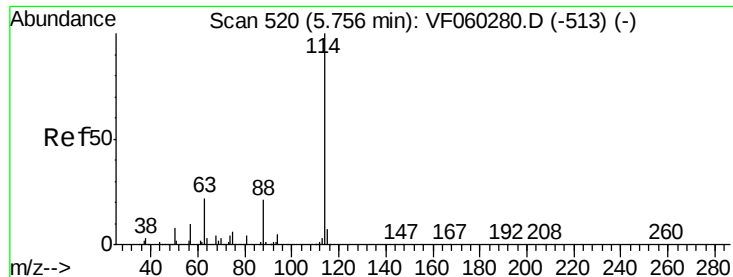
67 49.9 0.0 94.4



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.75 min Scan# 519

Delta R.T. -0.01 min

Lab File: VF060339.D

Acq: 25 Sep 2018 21:55

Instrument :

MSVOA_F

ClientSampled :

TP-A

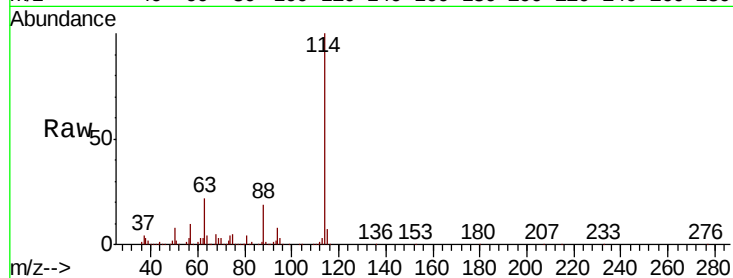
Tgt Ion:114 Resp: 611041

Ion Ratio Lower Upper

114 100

63 21.9 0.0 43.8

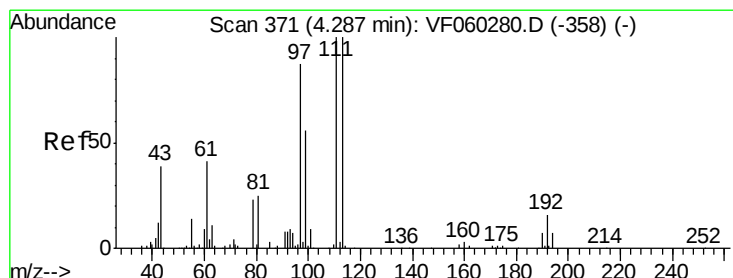
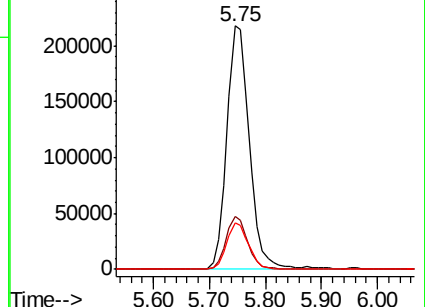
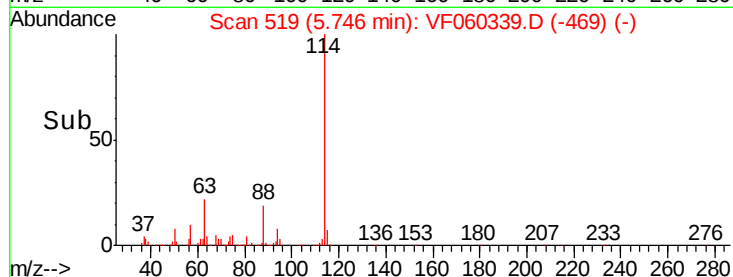
88 19.0 0.0 41.2



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: 54.056 ug/l

RT: 4.28 min Scan# 370

Delta R.T. -0.01 min

Lab File: VF060339.D

Acq: 25 Sep 2018 21:55

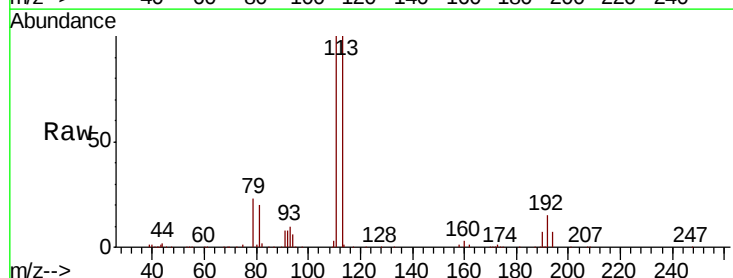
Tgt Ion:113 Resp: 294440

Ion Ratio Lower Upper

113 100

111 99.0 79.6 119.4

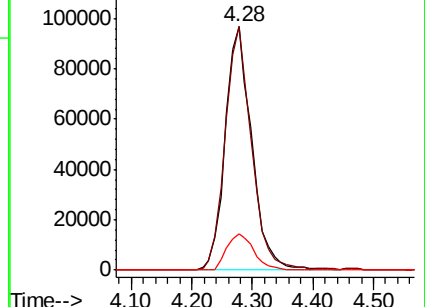
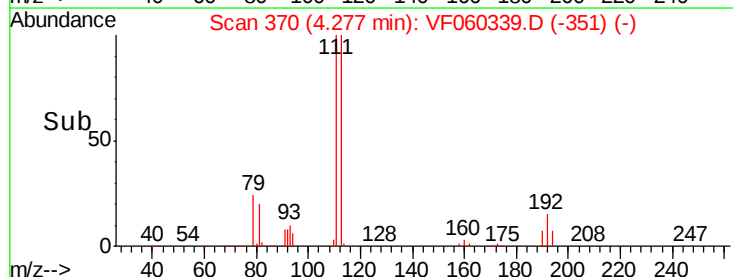
192 14.8 13.0 19.6

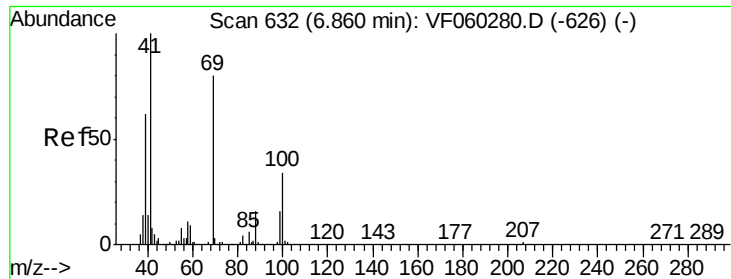


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

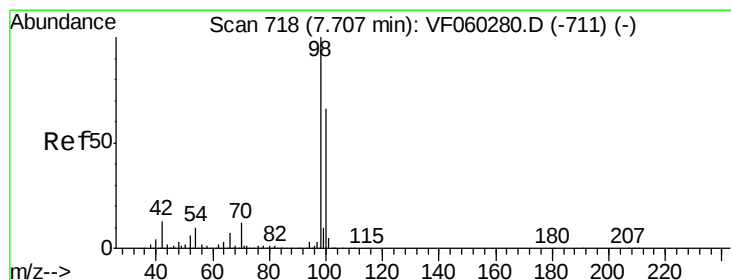
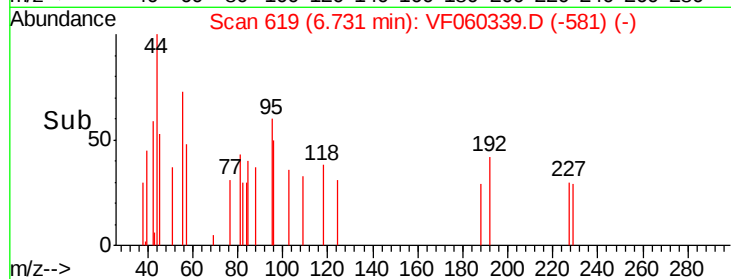
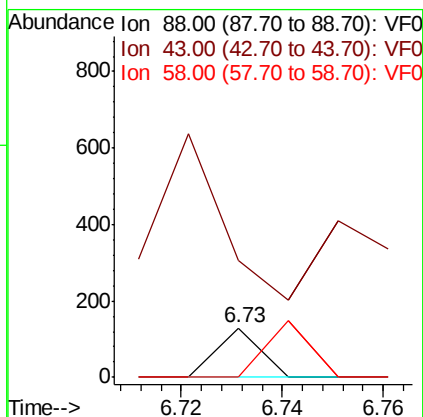
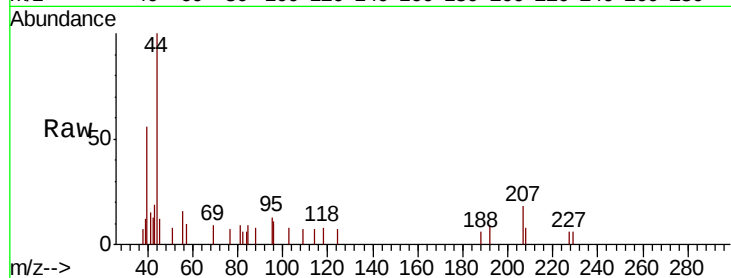




#49
 1,4-Dioxane
 Concen: 3.121 ug/l
 RT: 6.73 min Scan# 619
 Delta R.T. -0.13 min
 Lab File: VF060339.D
 Acq: 25 Sep 2018 21:55

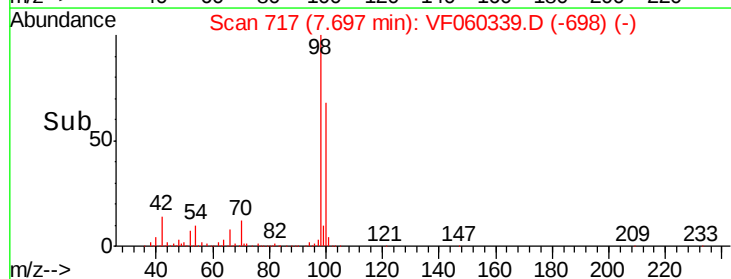
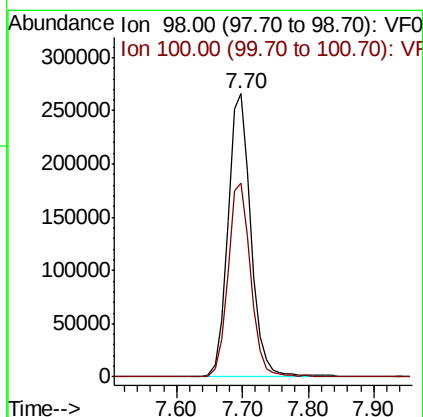
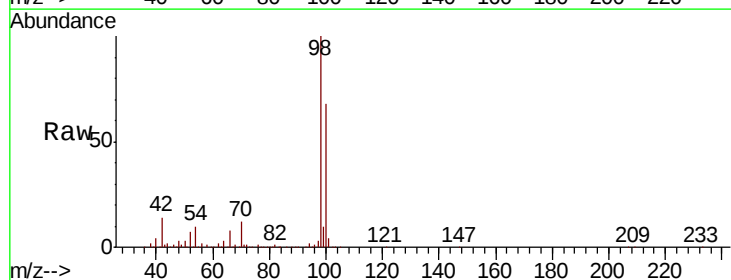
Instrument :
 MSVOA_F
 ClientSampled :
 TP-A

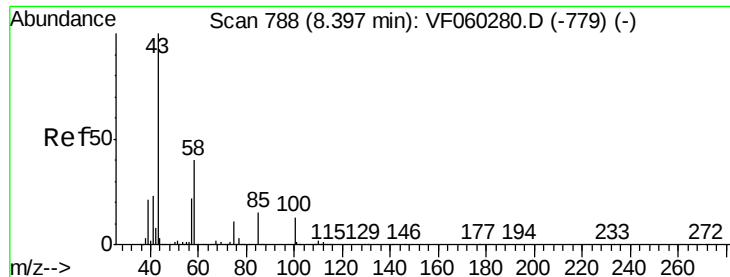
Tgt Ion: 88 Resp: 76
 Ion Ratio Lower Upper
 88 100
 43 237.2 40.2 60.4#
 58 0.0 56.7 85.1#



#50
 Toluene-d8
 Concen: 45.709 ug/l
 RT: 7.70 min Scan# 717
 Delta R.T. -0.01 min
 Lab File: VF060339.D
 Acq: 25 Sep 2018 21:55

Tgt Ion: 98 Resp: 648390
 Ion Ratio Lower Upper
 98 100
 100 68.4 53.0 79.6





#51

4-Methyl-2-Pentanone

Concen: 1.537 ug/l

RT: 8.40 min Scan# 788

Delta R.T. -0.00 min

Lab File: VF060339.D

Acq: 25 Sep 2018 21:55

Instrument :

MSVOA_F

ClientSampleID :

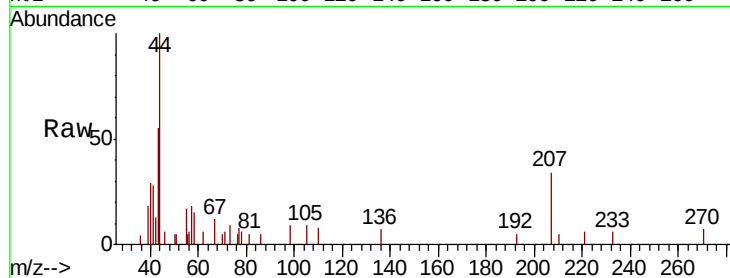
TP-A

Tgt Ion: 43 Resp: 4599

Ion Ratio Lower Upper

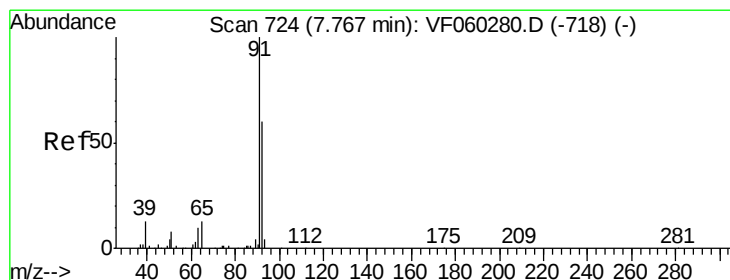
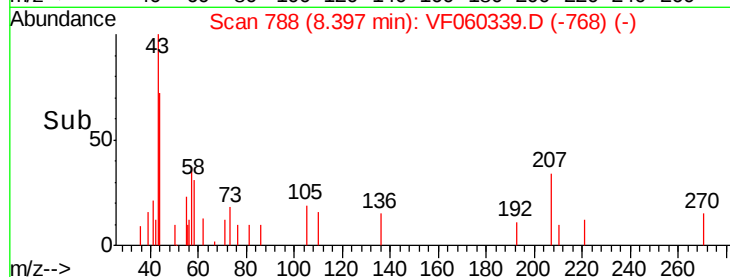
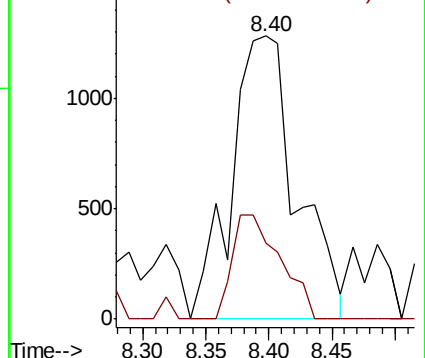
43 100

58 26.7 31.8 47.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 1.665 ug/l

RT: 7.76 min Scan# 723

Delta R.T. -0.01 min

Lab File: VF060339.D

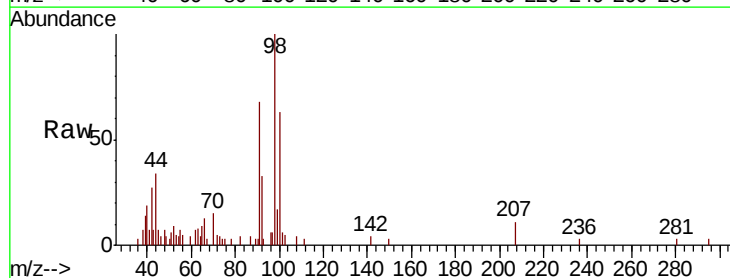
Acq: 25 Sep 2018 21:55

Tgt Ion: 63 Resp: 590

Ion Ratio Lower Upper

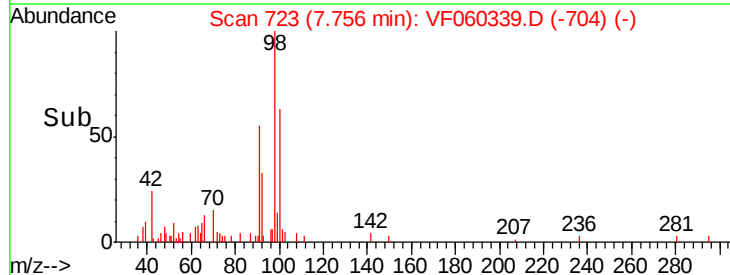
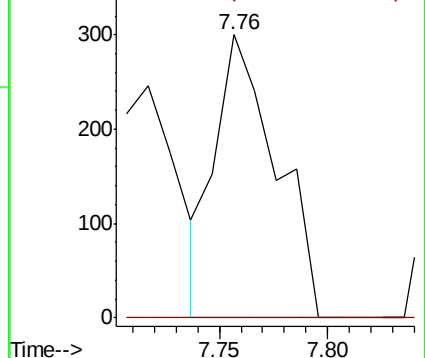
63 100

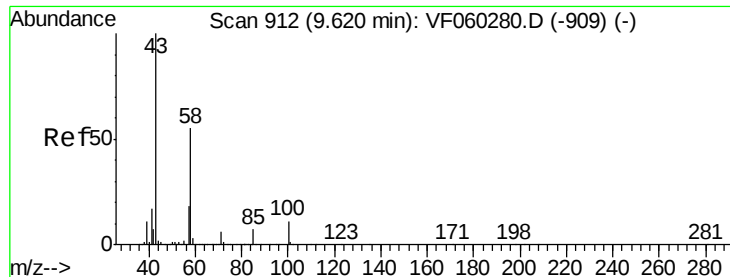
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

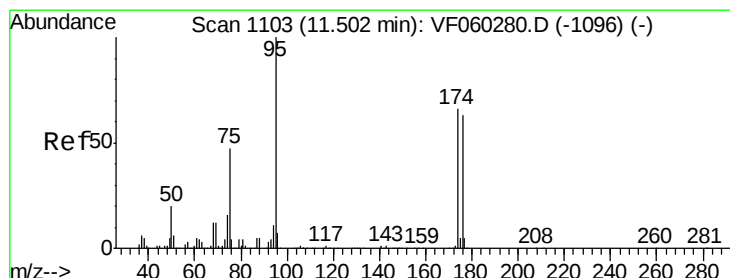
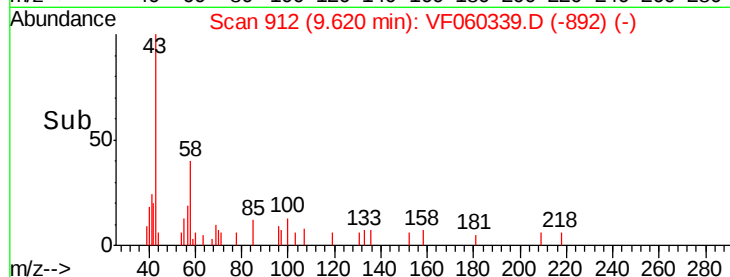
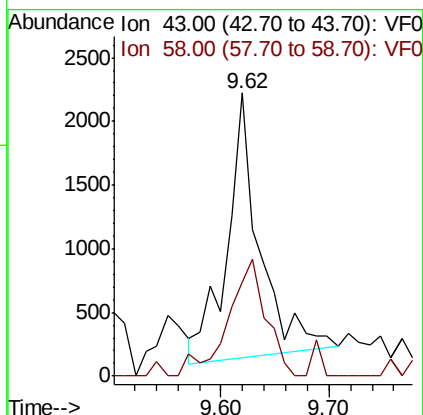
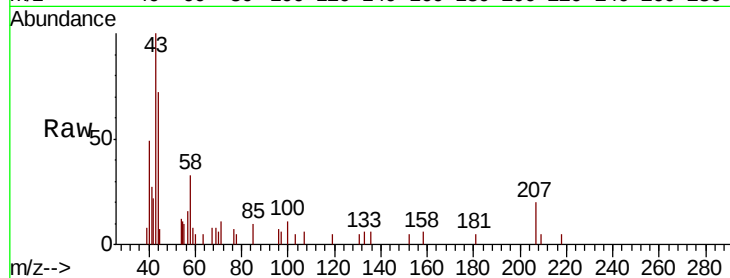




#59
2-Hexanone
Concen: 2.059 ug/l
RT: 9.62 min Scan# 912
Delta R.T. -0.00 min
Lab File: VF060339.D
Acq: 25 Sep 2018 21:55

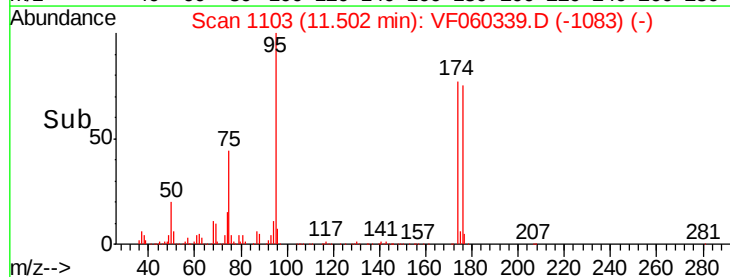
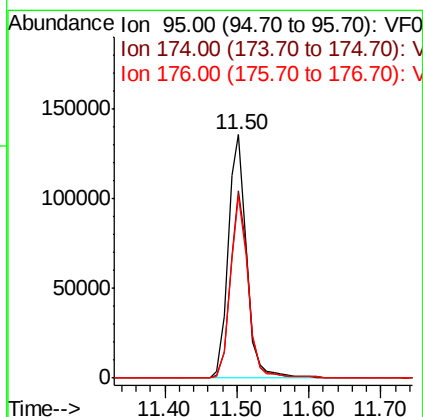
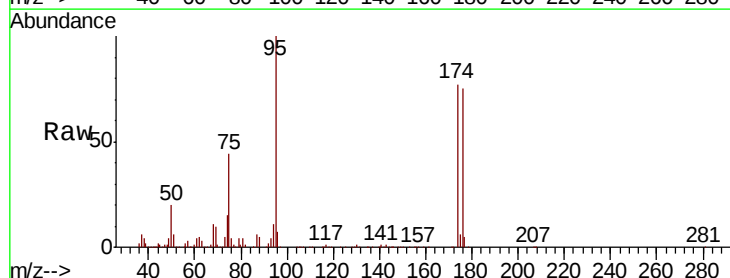
Instrument :
MSVOA_F
ClientSampled :
TP-A

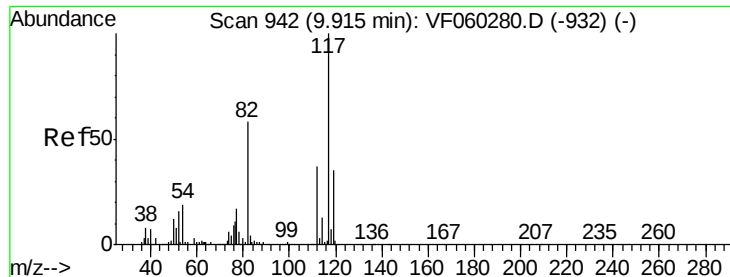
Tgt Ion: 43 Resp: 4387
Ion Ratio Lower Upper
43 100
58 33.3 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 39.161 ug/l
RT: 11.50 min Scan# 1103
Delta R.T. -0.00 min
Lab File: VF060339.D
Acq: 25 Sep 2018 21:55

Tgt Ion: 95 Resp: 240126
Ion Ratio Lower Upper
95 100
174 76.8 0.0 131.2
176 74.9 0.0 126.6

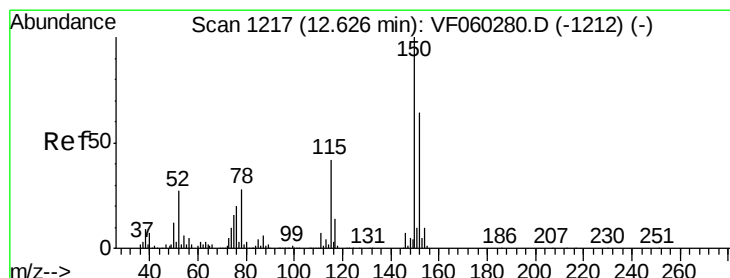
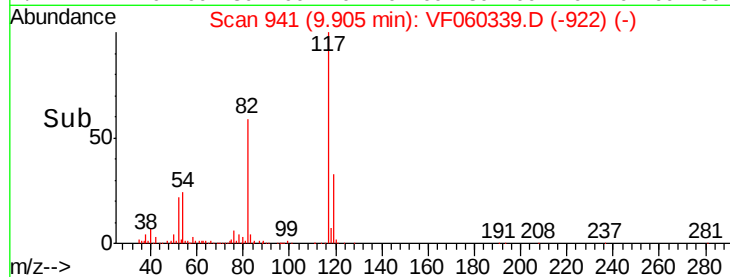
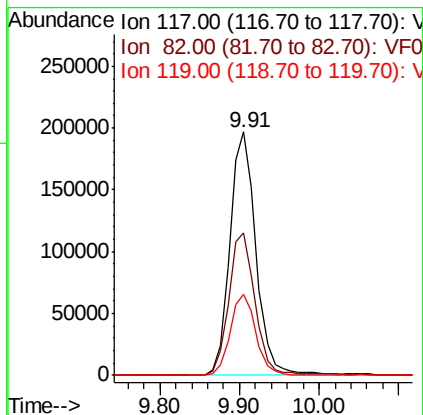
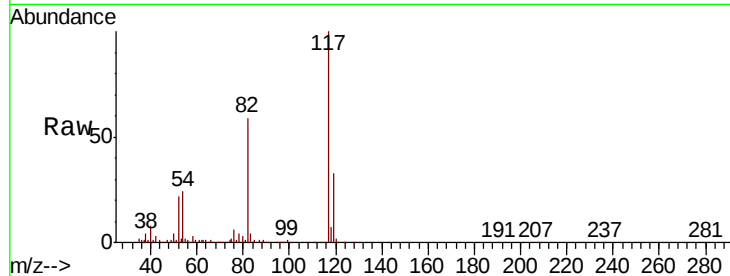




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.01 min
Lab File: VF060339.D
Acq: 25 Sep 2018 21:55

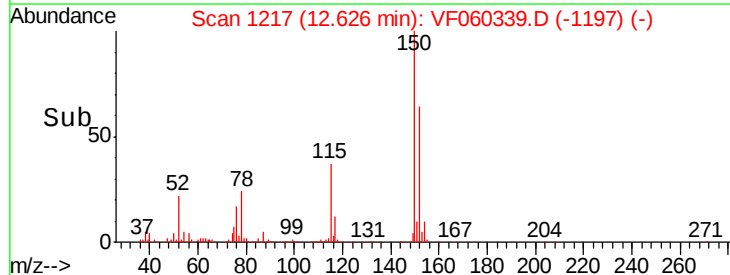
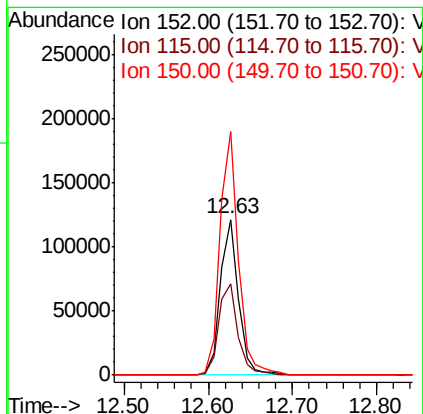
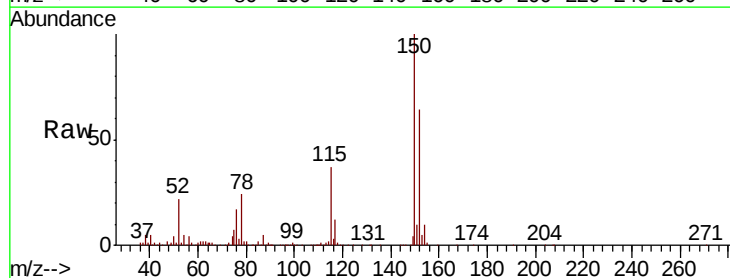
Instrument :
MSVOA_F
ClientSampled :
TP-A

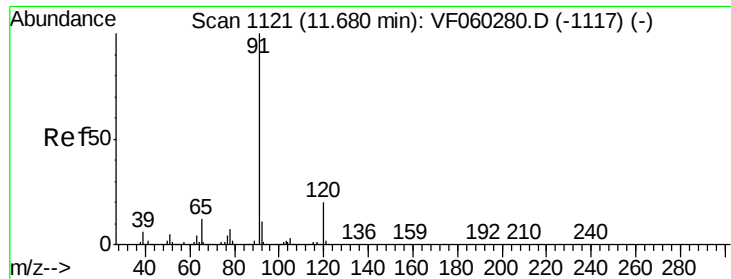
Tgt Ion:117 Resp: 451265
Ion Ratio Lower Upper
117 100
82 58.6 46.2 69.2
119 33.0 27.8 41.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1217
Delta R.T. -0.00 min
Lab File: VF060339.D
Acq: 25 Sep 2018 21:55

Tgt Ion:152 Resp: 183114
Ion Ratio Lower Upper
152 100
115 58.7 32.6 97.8
150 156.6 0.0 314.2

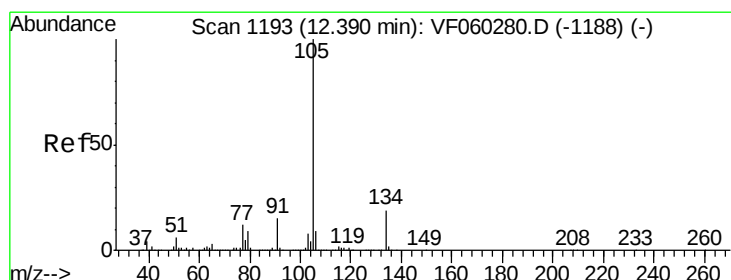
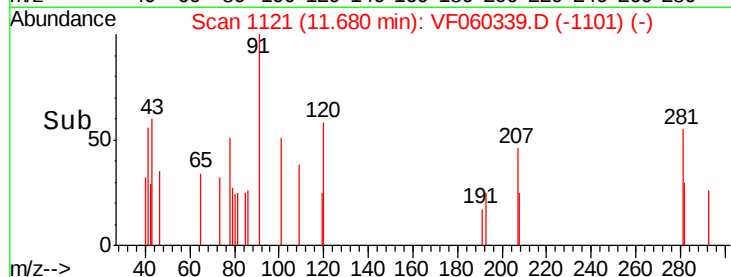
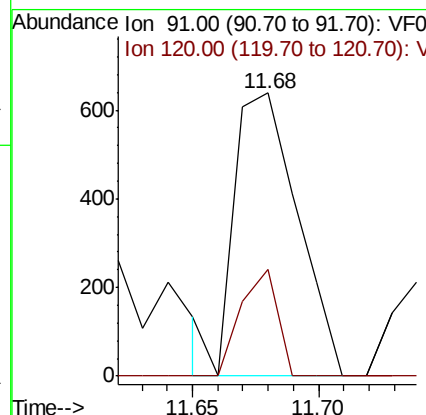
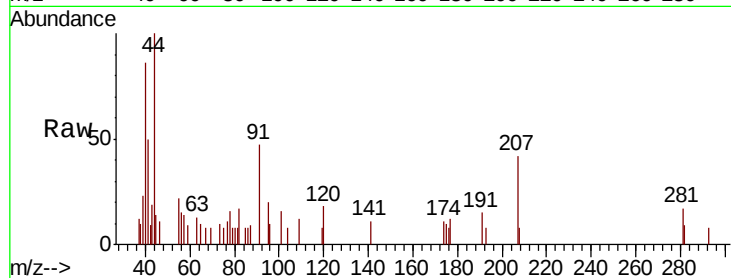




#78
n-propylbenzene
Concen: Below Cal
RT: 11.68 min Scan# 1121
Delta R.T. 0.00 min
Lab File: VF060339.D
Acq: 25 Sep 2018 21:55

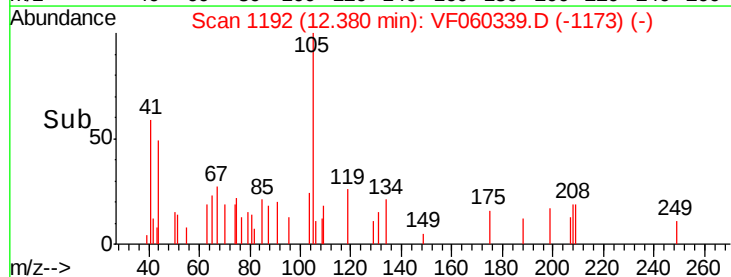
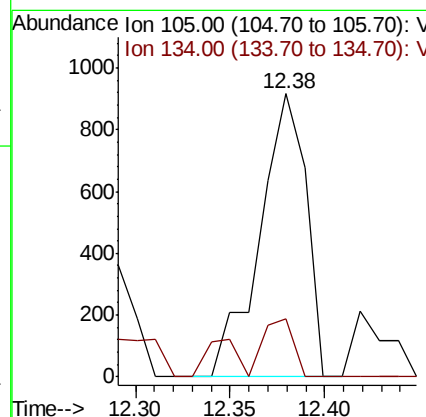
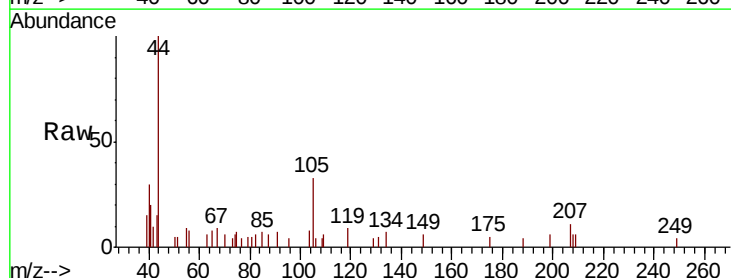
Instrument :
MSVOA_F
ClientSampleId :
TP-A

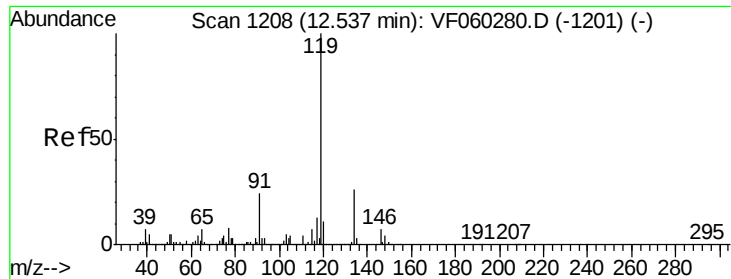
Tgt Ion: 91 Resp: 1106
Ion Ratio Lower Upper
91 100
120 37.8 10.0 29.8#



#85
sec-Butylbenzene
Concen: Below Cal
RT: 12.38 min Scan# 1192
Delta R.T. -0.01 min
Lab File: VF060339.D
Acq: 25 Sep 2018 21:55

Tgt Ion: 105 Resp: 1564
Ion Ratio Lower Upper
105 100
134 20.6 9.6 28.6

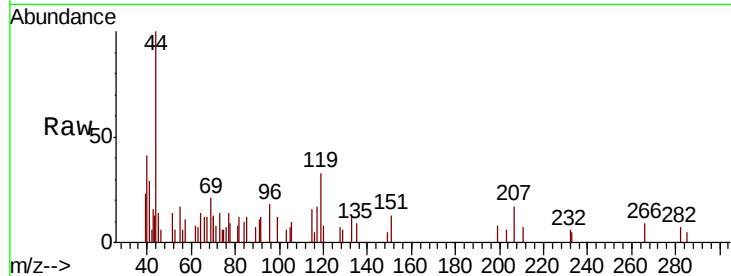




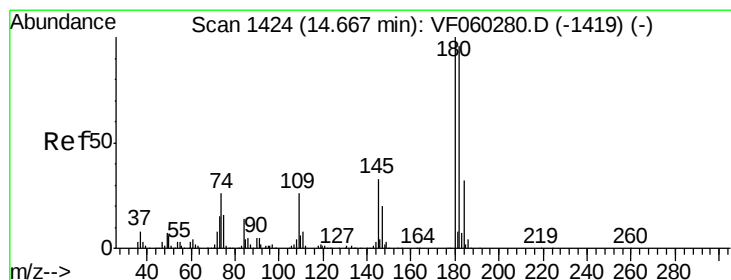
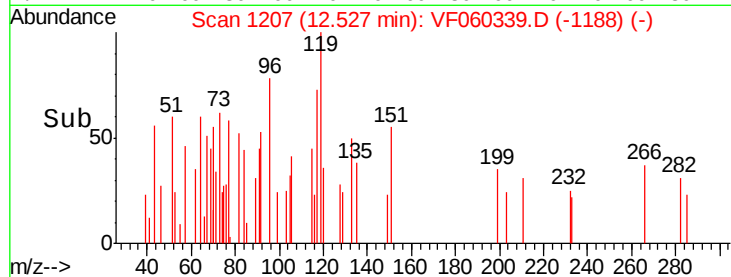
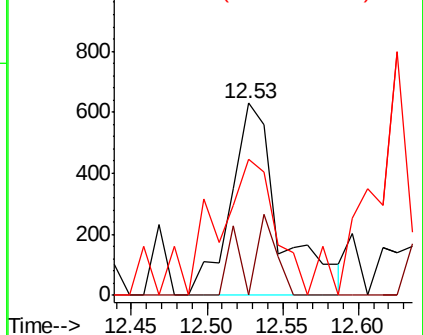
#86
p-Isopropyltoluene
Concen: Below Cal
RT: 12.53 min Scan# 1207
Delta R.T. -0.01 min
Lab File: VF060339.D
Acq: 25 Sep 2018 21:55

Instrument :
MSVOA_F
ClientSampled :
TP-A

Tgt Ion:119 Resp: 1431
Ion Ratio Lower Upper
119 100
134 0.0 12.9 38.7#
91 70.5 11.9 35.7#

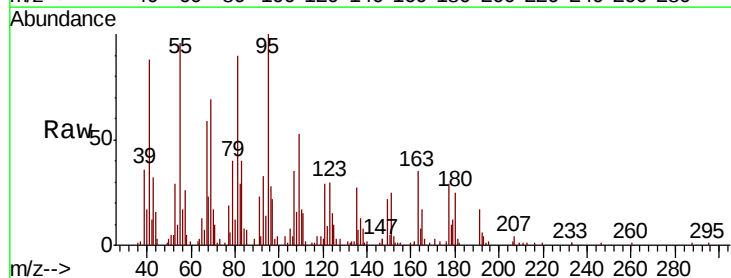


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): VF0



#96
1,2,3-Trichlorobenzene
Concen: 1.156 ug/l
RT: 14.70 min Scan# 1427
Delta R.T. 0.03 min
Lab File: VF060339.D
Acq: 25 Sep 2018 21:55

Tgt Ion:180 Resp: 4905
Ion Ratio Lower Upper
180 100
182 4.3 47.8 143.4#
145 0.0 16.4 49.1#



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

