

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF092518\
 Data File : VF060340.D
 Acq On : 25 Sep 2018 22:22
 Operator : VA/AP
 Sample : J5055-08
 Misc : 5.90/5mL/MSVOA_F/SOIL
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-B

Quant Time: Sep 26 01:48:31 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	367046	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.76	114	682588	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	571162	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.63	152	271858	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	272360	55.11	ug/l	0.00
Spiked Amount 50.000			Recovery	=	110.22%	
35) Dibromofluoromethane	4.28	113	312426	51.35	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	102.70%	
50) Toluene-d8	7.70	98	725362	45.78	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	91.56%	
62) 4-Bromofluorobenzene	11.50	95	299021	43.65	ug/l	0.00
Spiked Amount 50.000			Recovery	=	87.30%	

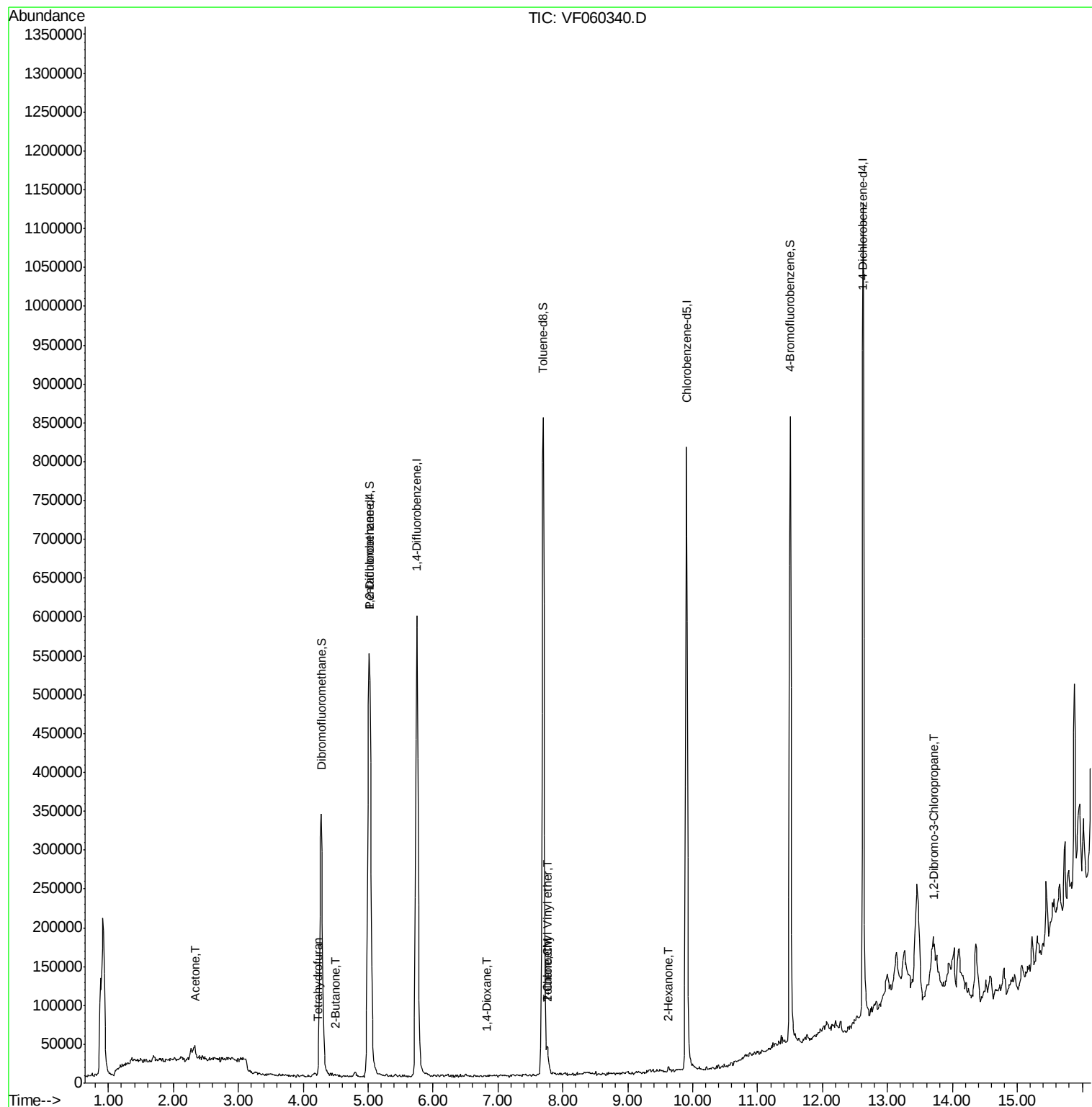
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.01	85	384	Below Cal	#	40
5) Bromomethane	1.33	94	402	Below Cal		92
11) Tert butyl alcohol	2.66	59	625	Below Cal	#	1
13) Acrolein	2.11	56	250	Below Cal	#	40
16) Acetone	2.33	43	10230	7.350	ug/l	100
17) Carbon Disulfide	1.92	76	381	Below Cal	#	1
20) Methylene Chloride	2.27	84	4855	Below Cal	#	87
25) 2-Butanone	4.49	43	4927	2.630	ug/l	# 73
29) Tetrahydrofuran	4.22	42	1118	1.630	ug/l	# 72
49) 1,4-Dioxane	6.83	88	135	4.963	ug/l	# 1
52) Toluene	7.77	92	15330	1.255	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.76	63	2638	6.665	ug/l	100
59) 2-Hexanone	9.62	43	5923	2.489	ug/l	81
78) n-propylbenzene	11.68	91	1779	Below Cal		89
85) sec-Butylbenzene	12.38	105	999	Below Cal		84
86) p-Isopropyltoluene	12.53	119	1193	Below Cal	#	1
89) n-Butylbenzene	12.91	91	3604	Below Cal	#	64
92) 1,2-Dibromo-3-Chloropropan	13.73	75	1158	1.426	ug/l	# 1

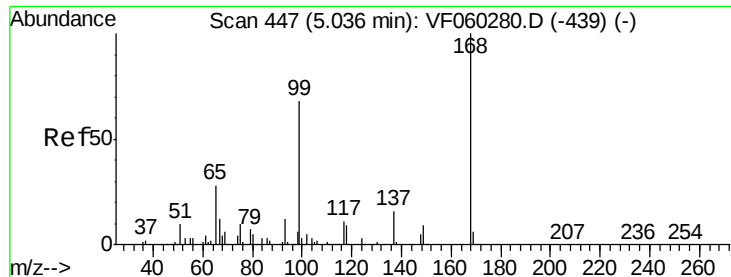
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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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: VF060340.D

Acq: 25 Sep 2018 22:22

Instrument :

MSVOA_F

ClientSampleId :

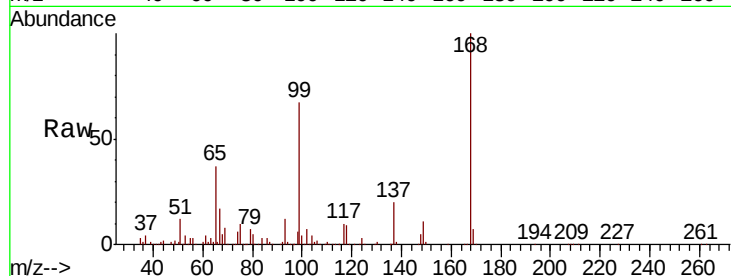
TP-B

Tgt Ion:168 Resp: 367046

Ion Ratio Lower Upper

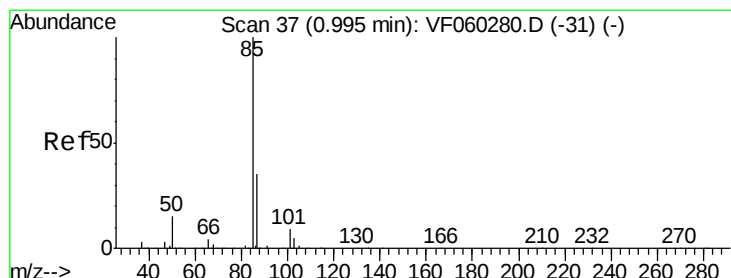
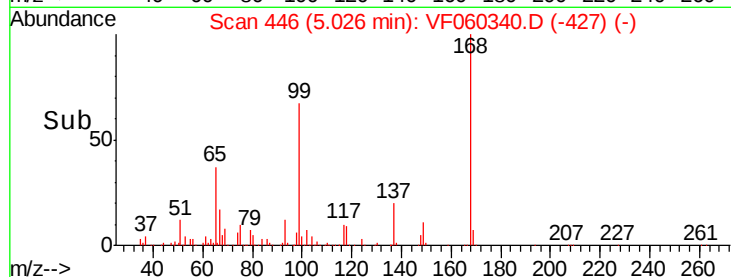
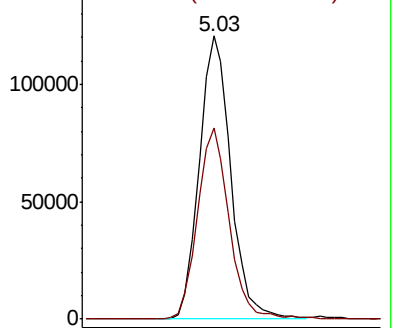
168 100

99 67.3 54.8 82.2



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.01 min Scan# 39

Delta R.T. 0.02 min

Lab File: VF060340.D

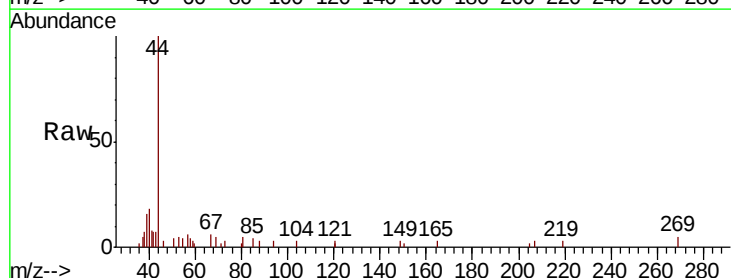
Acq: 25 Sep 2018 22:22

Tgt Ion: 85 Resp: 384

Ion Ratio Lower Upper

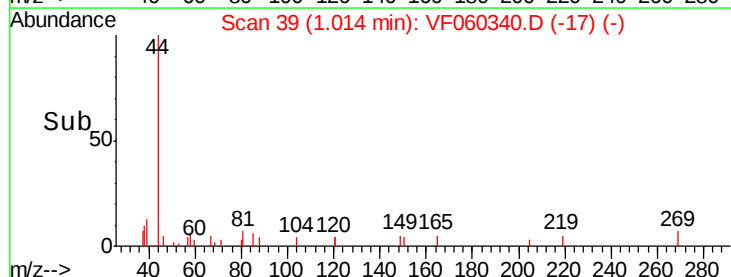
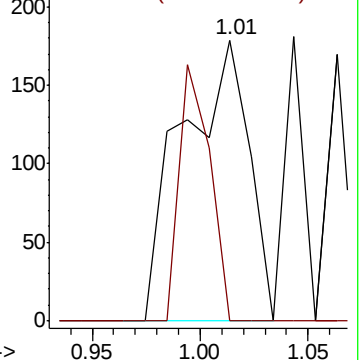
85 100

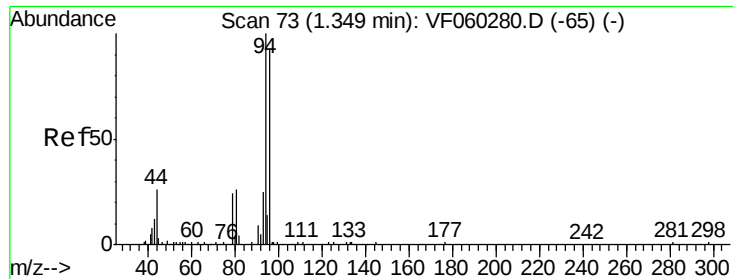
87 0.0 17.3 52.0#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#5

Bromomethane

Concen: Below Cal

RT: 1.33 min Scan# 71

Delta R.T. -0.02 min

Lab File: VF060340.D

Acq: 25 Sep 2018 22:22

Instrument :

MSVOA_F

ClientSampled :

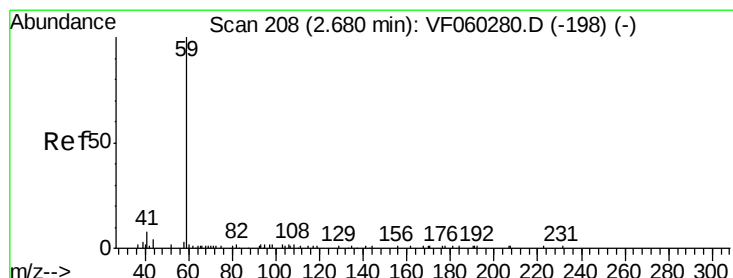
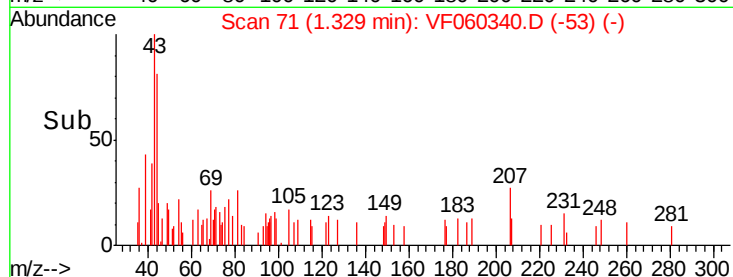
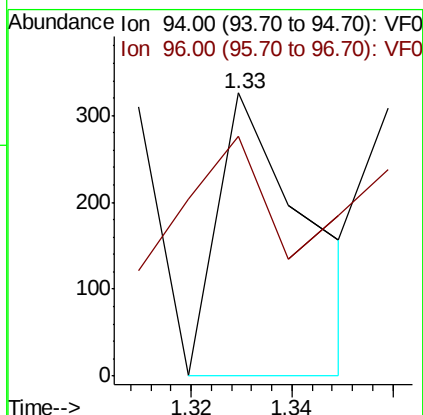
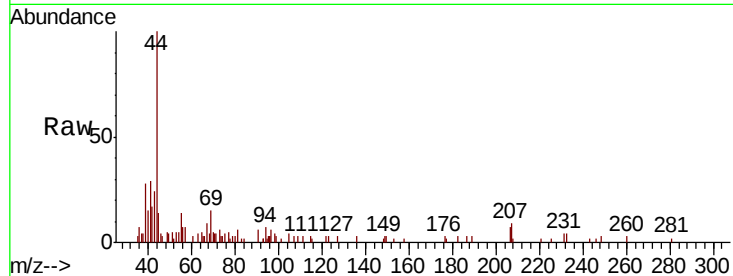
TP-B

Tgt Ion: 94 Resp: 402

Ion Ratio Lower Upper

94 100

96 84.7 73.9 110.9



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.66 min Scan# 206

Delta R.T. -0.02 min

Lab File: VF060340.D

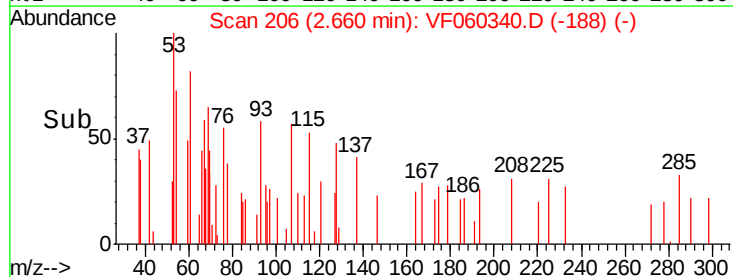
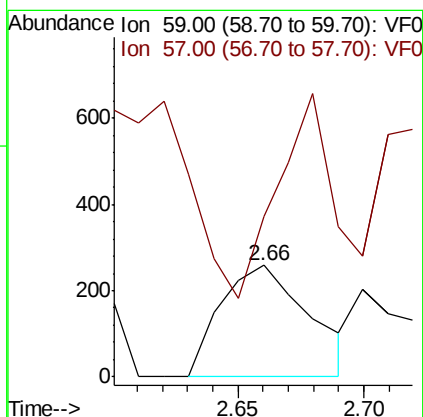
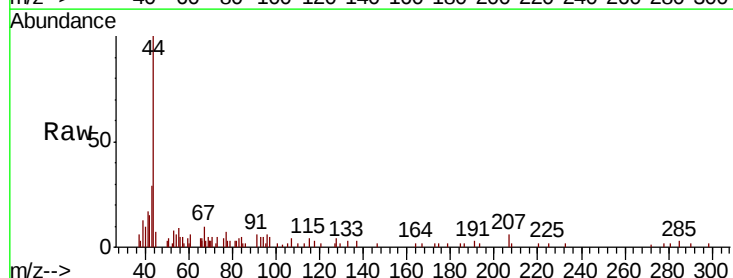
Acq: 25 Sep 2018 22:22

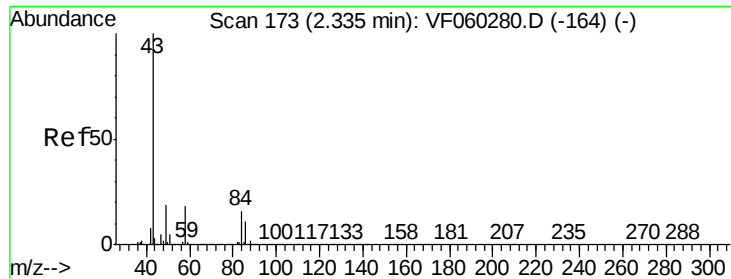
Tgt Ion: 59 Resp: 625

Ion Ratio Lower Upper

59 100

57 144.2 12.4 18.6#





#16

Acetone

Concen: 7.350 ug/l

RT: 2.33 min Scan# 173

Delta R.T. -0.00 min

Lab File: VF060340.D

Acq: 25 Sep 2018 22:22

Instrument :

MSVOA_F

ClientSampleId :

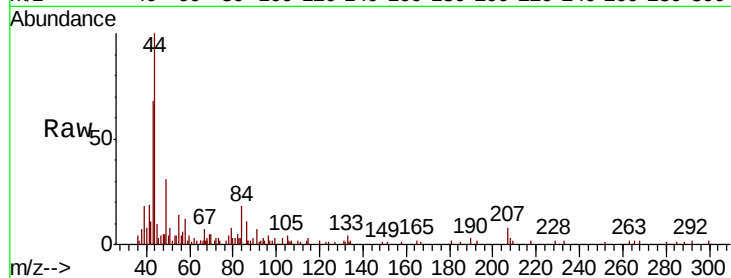
TP-B

Tgt Ion: 43 Resp: 10230

Ion Ratio Lower Upper

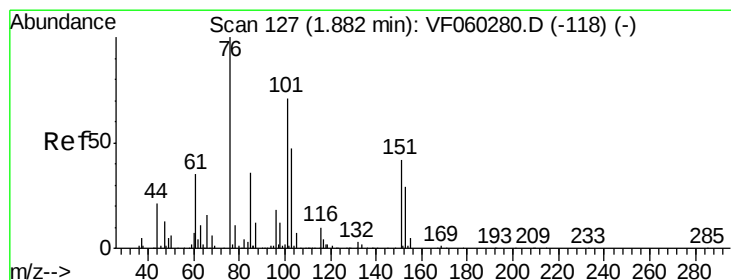
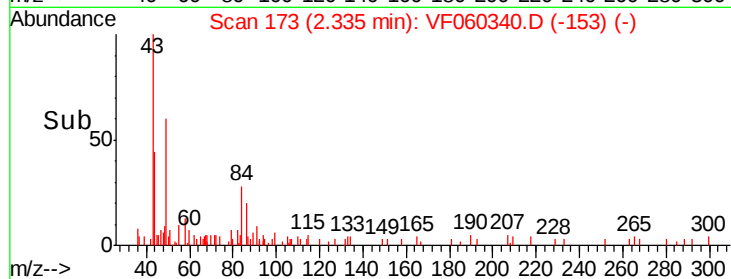
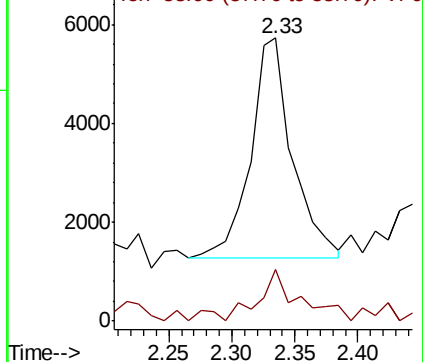
43 100

58 18.1 14.5 21.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#17

Carbon Disulfide

Concen: Below Cal

RT: 1.92 min Scan# 131

Delta R.T. 0.04 min

Lab File: VF060340.D

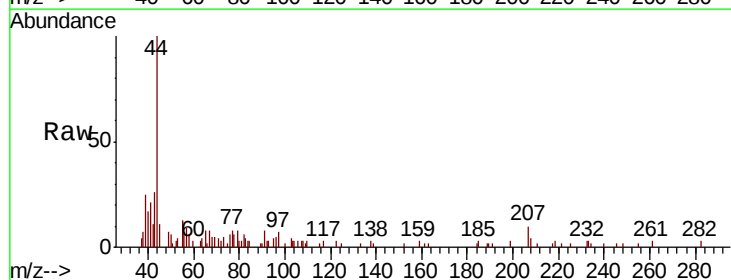
Acq: 25 Sep 2018 22:22

Tgt Ion: 76 Resp: 381

Ion Ratio Lower Upper

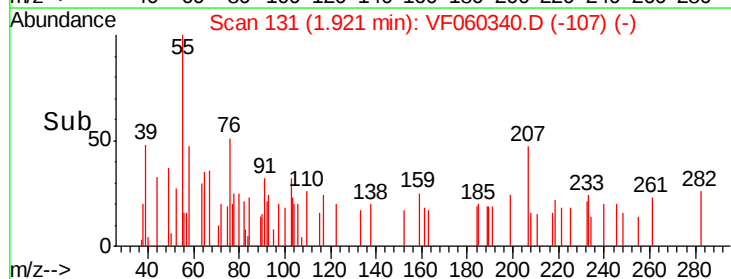
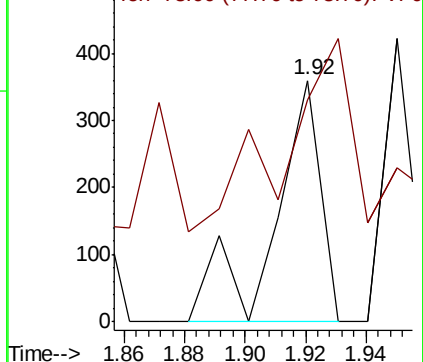
76 100

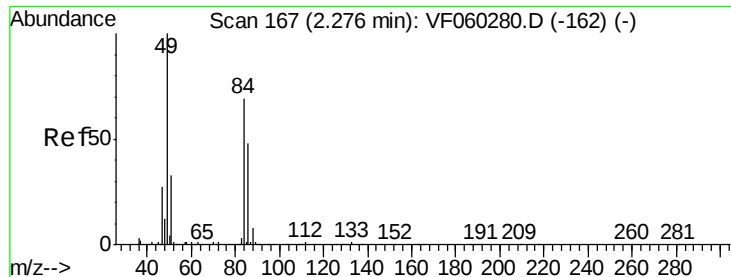
78 91.7 9.4 14.0#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0





#20

Methylene Chloride

Concen: Below Cal

RT: 2.27 min Scan# 166

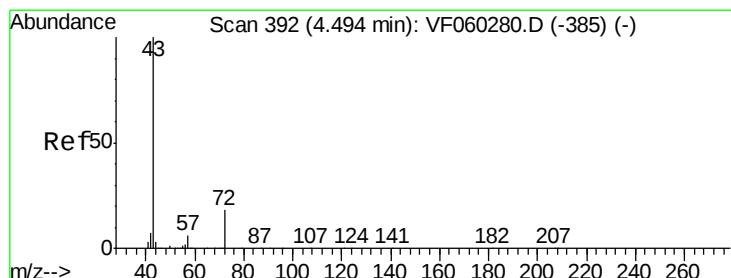
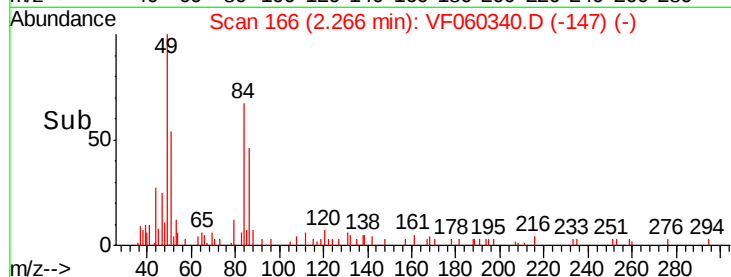
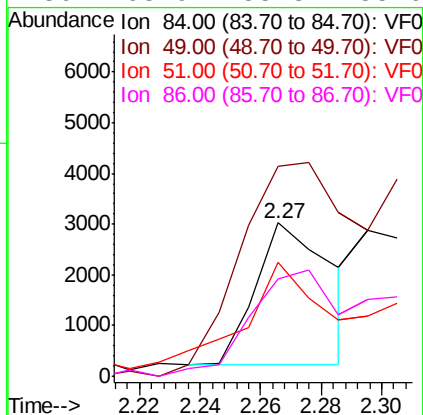
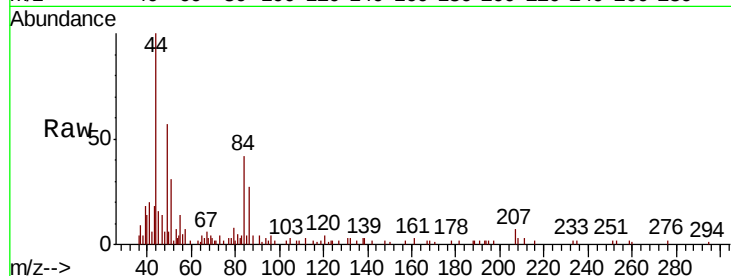
Delta R.T. -0.01 min

Lab File: VF060340.D

Acq: 25 Sep 2018 22:22

Instrument :
MSVOA_F
ClientSampleId :
TP-B

Tgt Ion:	84	Resp:	4855
Ion	Ratio	Lower	Upper
84	100		
49	137.5	118.3	177.5
51	74.7	38.7	58.1#
86	63.9	55.8	83.6



#25

2-Butanone

Concen: 2.630 ug/l

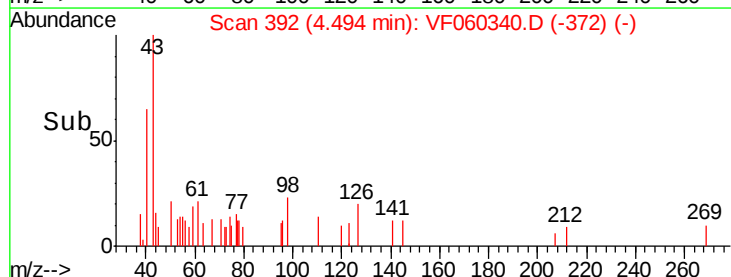
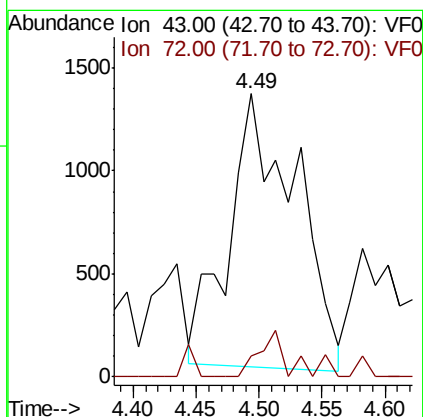
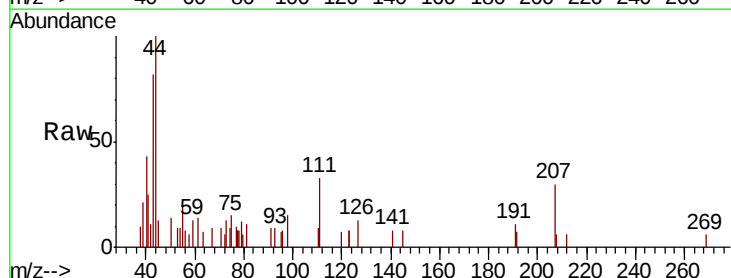
RT: 4.49 min Scan# 392

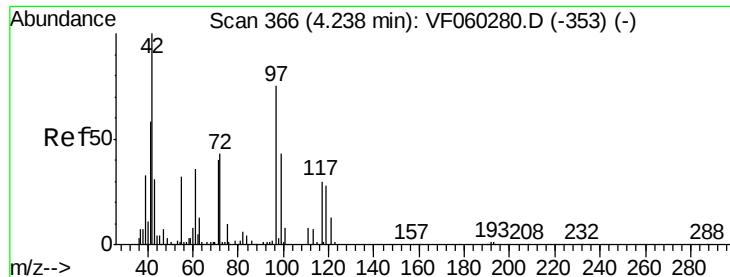
Delta R.T. -0.00 min

Lab File: VF060340.D

Acq: 25 Sep 2018 22:22

Tgt Ion:	43	Resp:	4927
Ion	Ratio	Lower	Upper
43	100		
72	7.6	16.2	24.2#





#29

Tetrahydrofuran

Concen: 1.630 ug/l

RT: 4.22 min Scan# 364

Delta R.T. -0.02 min

Lab File: VF060340.D

Acq: 25 Sep 2018 22:22

Instrument :

MSVOA_F

ClientSampleId :

TP-B

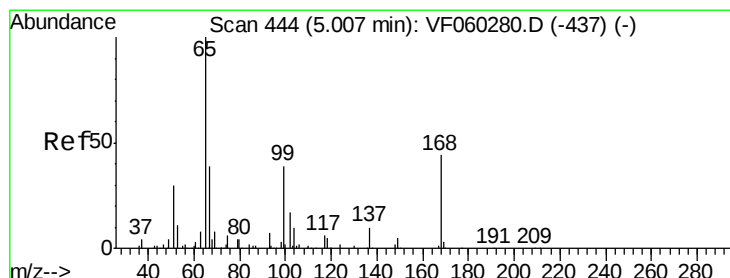
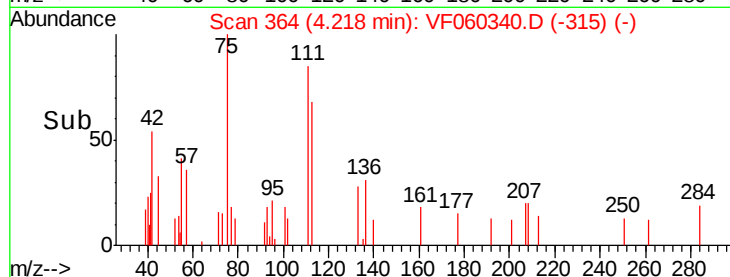
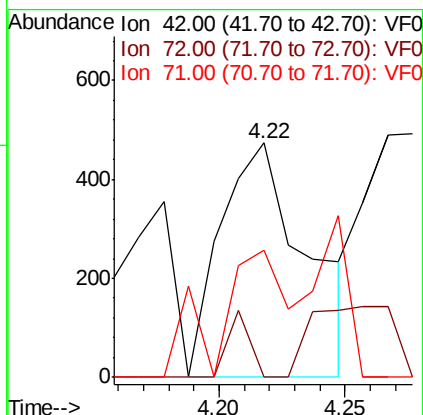
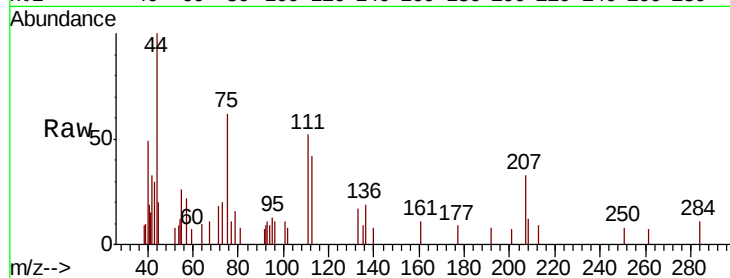
Tgt Ion: 42 Resp: 1118

Ion Ratio Lower Upper

42 100

72 7.2 32.6 49.0#

71 42.7 32.7 49.1



#33

1,2-Dichloroethane-d4

Concen: 55.107 ug/l

RT: 5.01 min Scan# 444

Delta R.T. -0.00 min

Lab File: VF060340.D

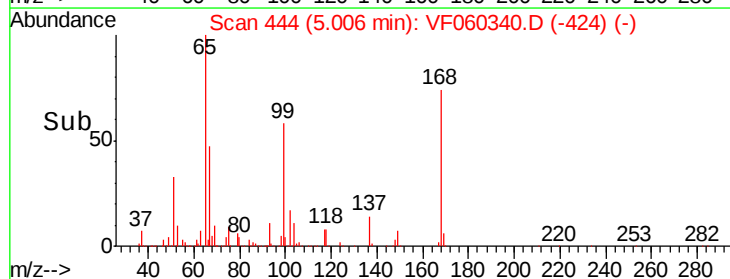
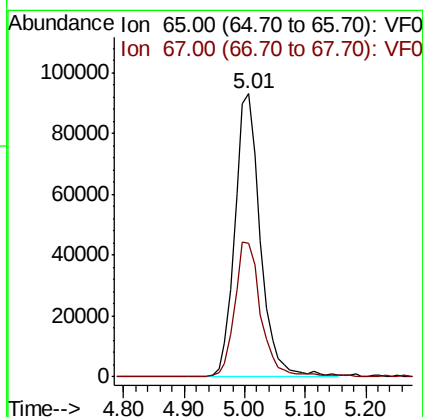
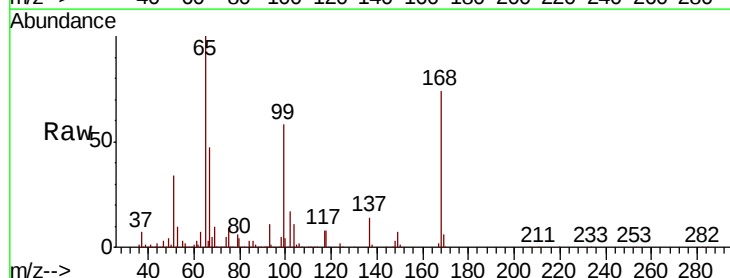
Acq: 25 Sep 2018 22:22

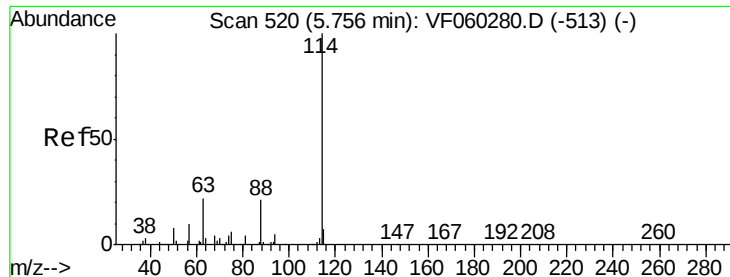
Tgt Ion: 65 Resp: 272360

Ion Ratio Lower Upper

65 100

67 47.3 0.0 94.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.76 min Scan# 520

Delta R.T. -0.00 min

Lab File: VF060340.D

Acq: 25 Sep 2018 22:22

Instrument :

MSVOA_F

ClientSampleId :

TP-B

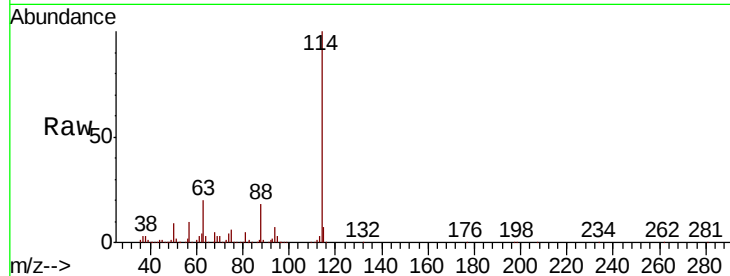
Tgt Ion:114 Resp: 682588

Ion Ratio Lower Upper

114 100

63 19.9 0.0 43.8

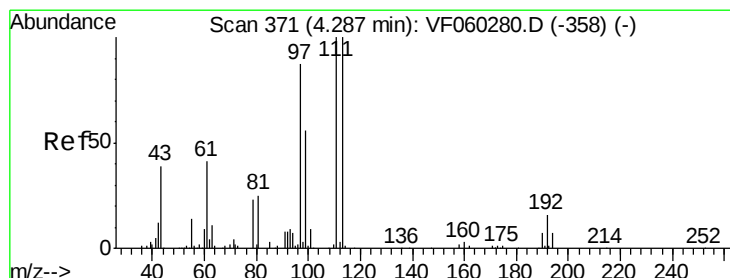
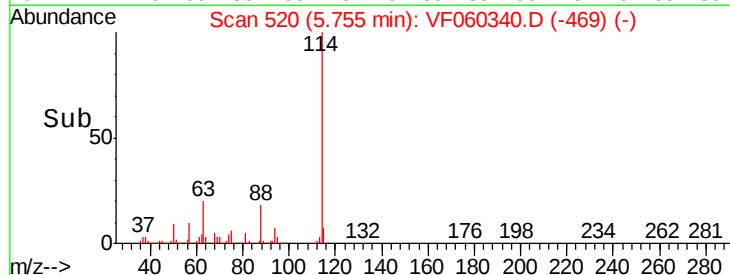
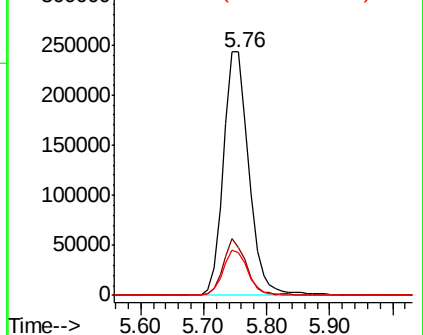
88 17.8 0.0 41.2



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: 51.346 ug/l

RT: 4.28 min Scan# 370

Delta R.T. -0.01 min

Lab File: VF060340.D

Acq: 25 Sep 2018 22:22

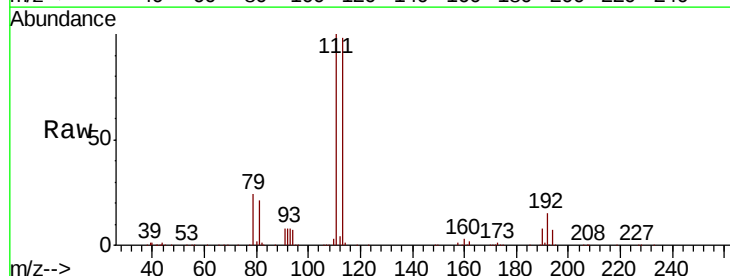
Tgt Ion:113 Resp: 312426

Ion Ratio Lower Upper

113 100

111 102.4 79.6 119.4

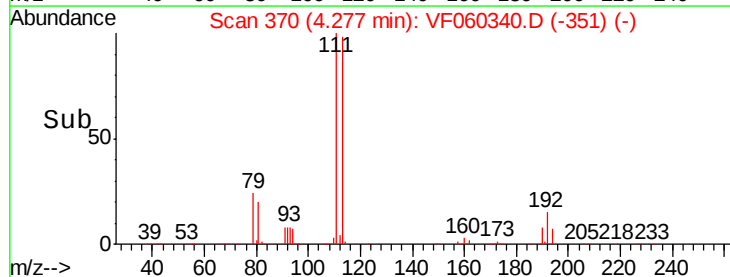
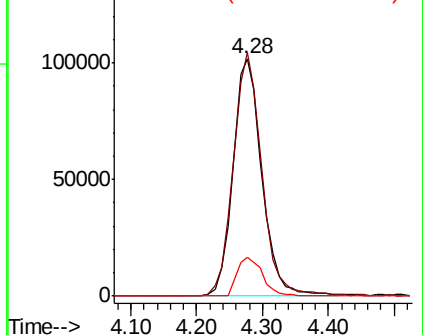
192 16.2 13.0 19.6

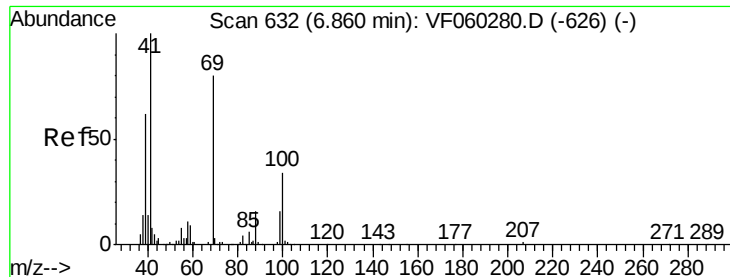


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

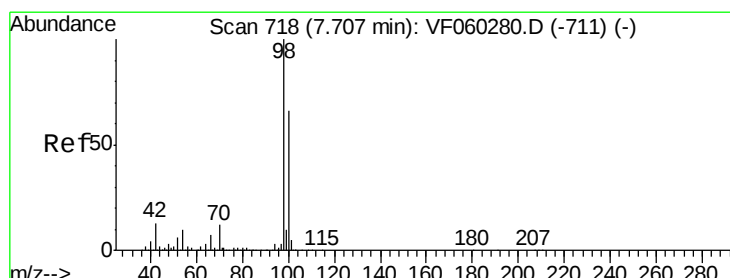
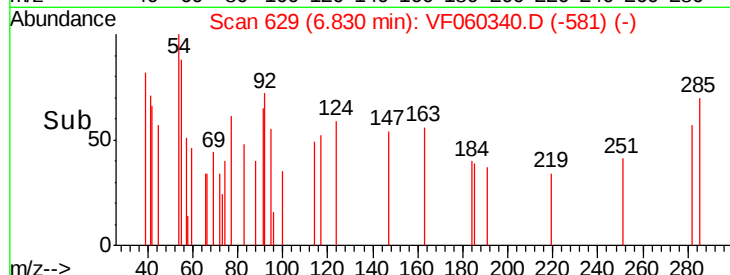
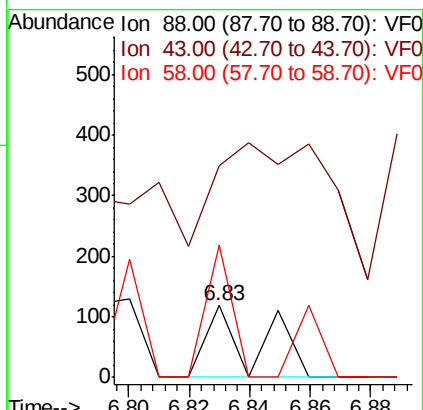
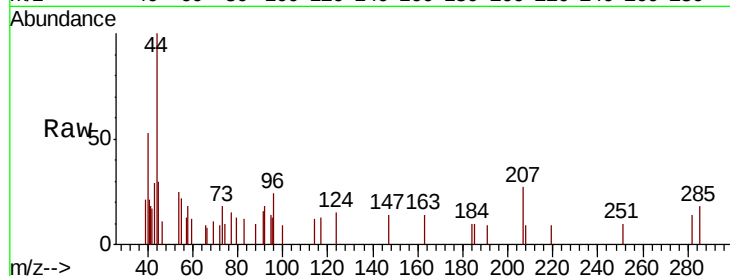




#49
1,4-Dioxane
Concen: 4.963 ug/l
RT: 6.83 min Scan# 629
Delta R.T. -0.03 min
Lab File: VF060340.D
Acq: 25 Sep 2018 22:22

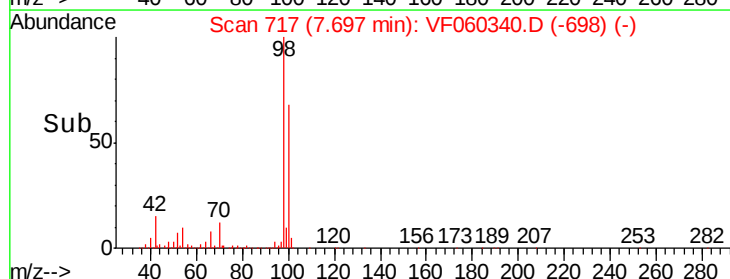
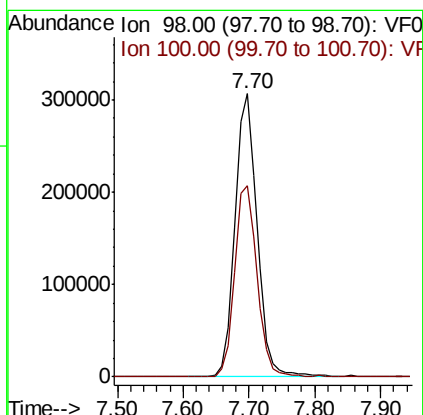
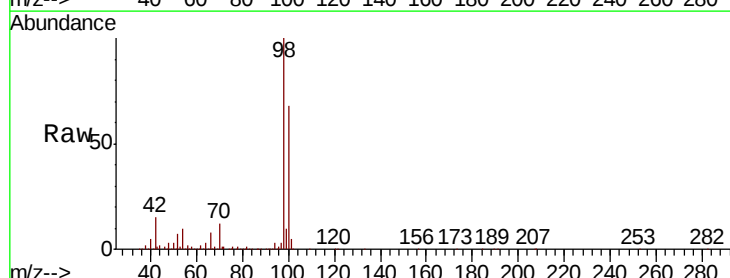
Instrument :
MSVOA_F
ClientSampled :
TP-B

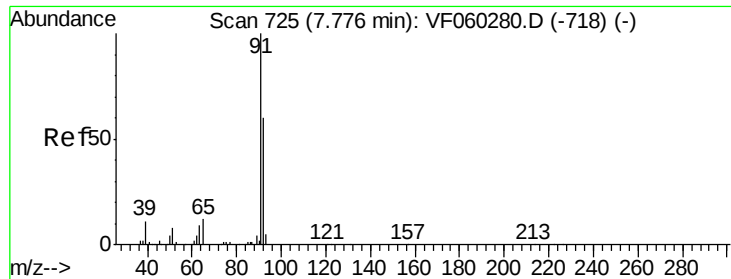
Tgt Ion: 88 Resp: 135
Ion Ratio Lower Upper
88 100
43 293.3 40.2 60.4#
58 184.0 56.7 85.1#



#50
Toluene-d8
Concen: 45.775 ug/l
RT: 7.70 min Scan# 717
Delta R.T. -0.01 min
Lab File: VF060340.D
Acq: 25 Sep 2018 22:22

Tgt Ion: 98 Resp: 725362
Ion Ratio Lower Upper
98 100
100 67.5 53.0 79.6





#52

Toluene

Concen: 1.255 ug/l

RT: 7.77 min Scan# 724

Delta R.T. -0.01 min

Lab File: VF060340.D

Acq: 25 Sep 2018 22:22

Instrument :

MSVOA_F

ClientSampleId :

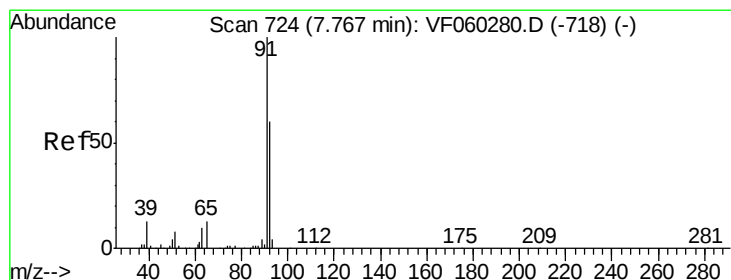
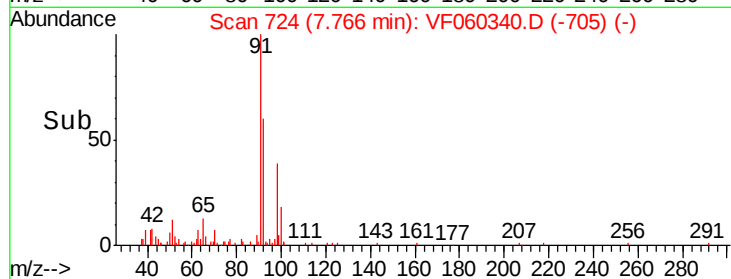
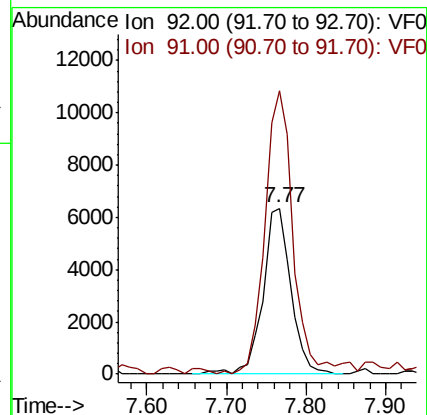
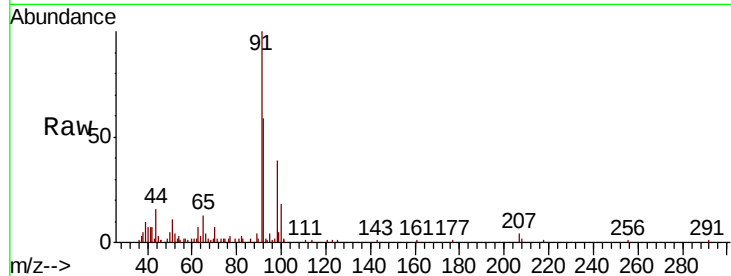
TP-B

Tgt Ion: 92 Resp: 15330

Ion Ratio Lower Upper

92 100

91 170.6 133.3 199.9



#58

2-Chloroethyl Vinyl ether

Concen: 6.665 ug/l

RT: 7.76 min Scan# 723

Delta R.T. -0.01 min

Lab File: VF060340.D

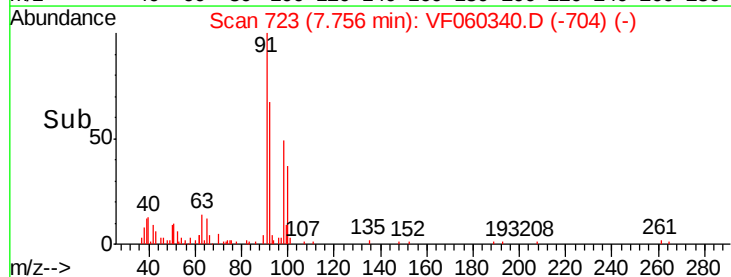
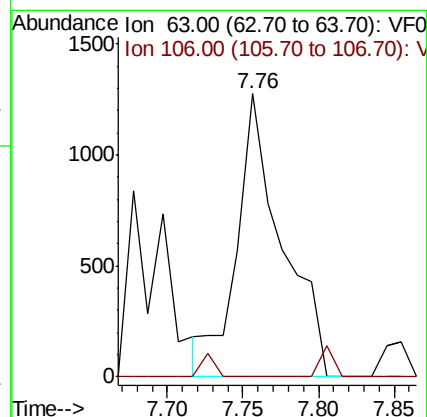
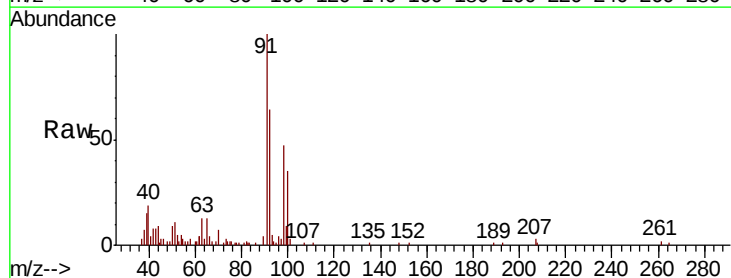
Acq: 25 Sep 2018 22:22

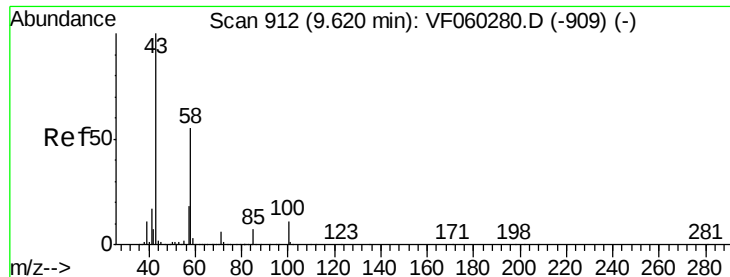
Tgt Ion: 63 Resp: 2638

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

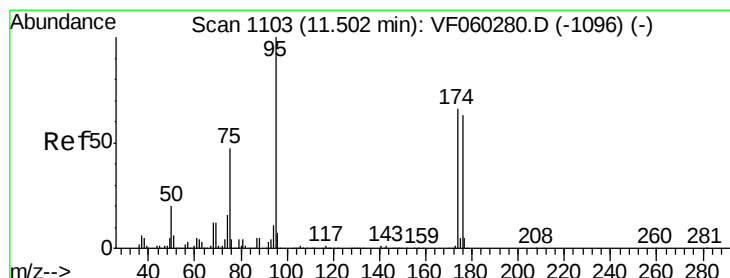
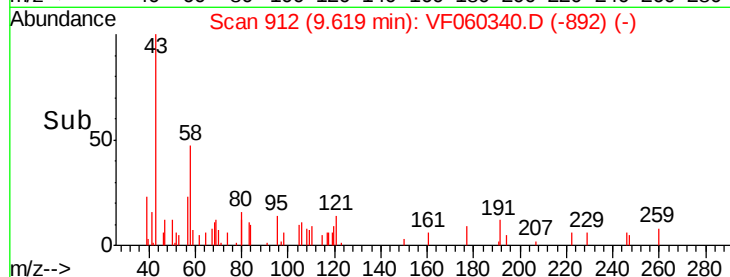
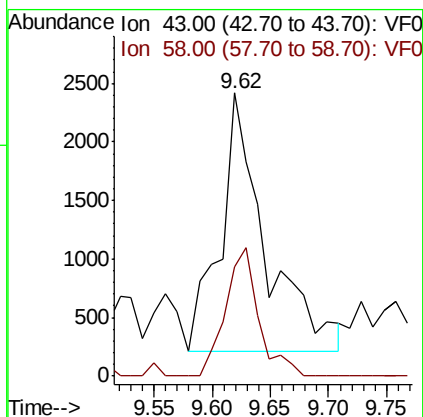
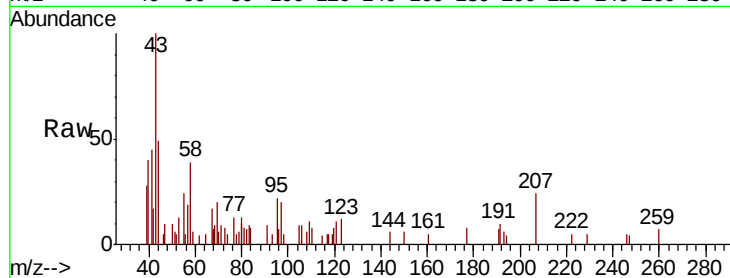




#59
2-Hexanone
Concen: 2.489 ug/l
RT: 9.62 min Scan# 912
Delta R.T. -0.00 min
Lab File: VF060340.D
Acq: 25 Sep 2018 22:22

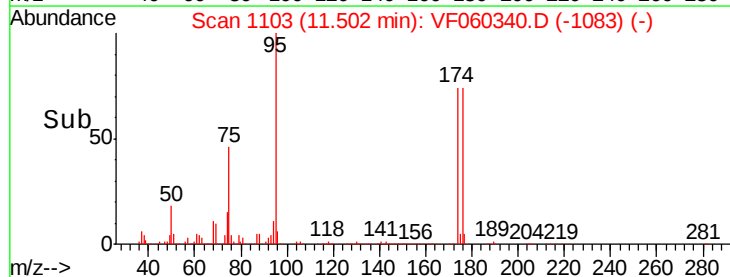
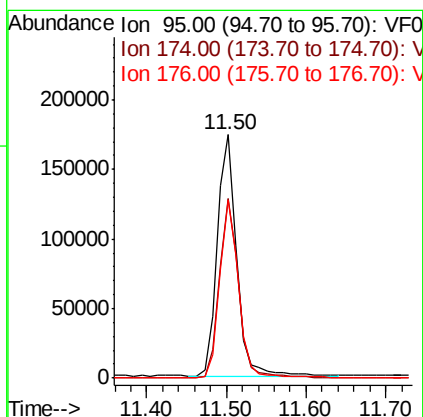
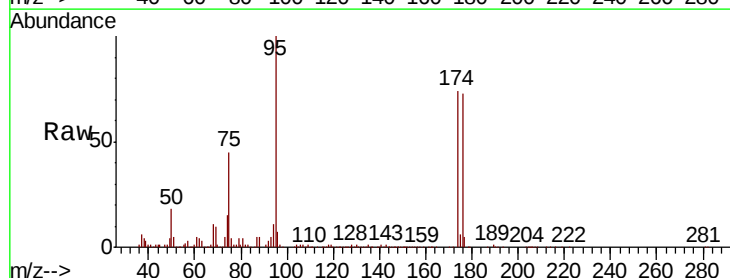
Instrument :
MSVOA_F
ClientSampled :
TP-B

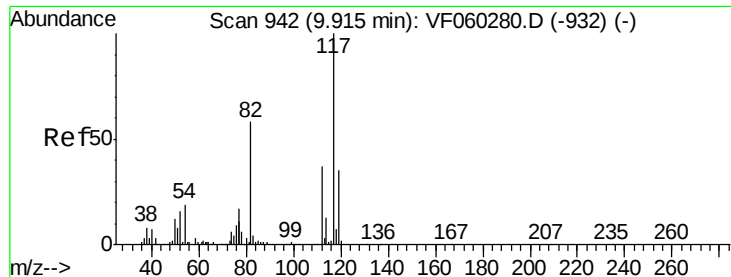
Tgt Ion: 43 Resp: 5923
Ion Ratio Lower Upper
43 100
58 38.6 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 43.654 ug/l
RT: 11.50 min Scan# 1103
Delta R.T. -0.00 min
Lab File: VF060340.D
Acq: 25 Sep 2018 22:22

Tgt Ion: 95 Resp: 299021
Ion Ratio Lower Upper
95 100
174 73.7 0.0 131.2
176 73.3 0.0 126.6

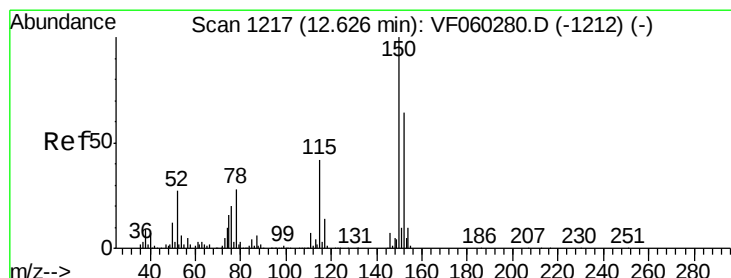
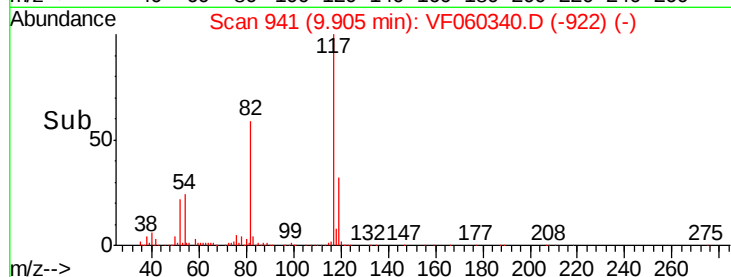
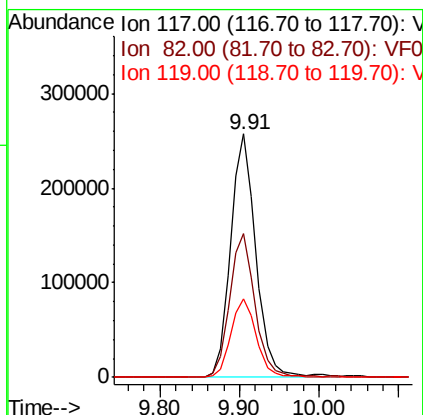
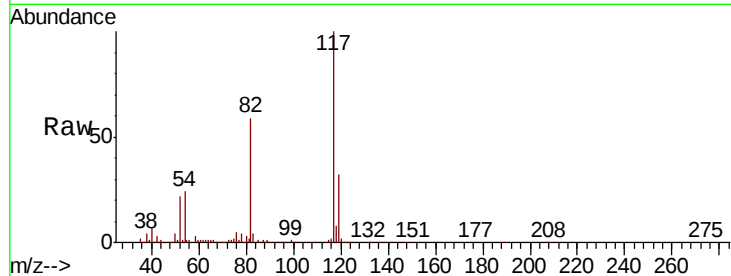




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.01 min
Lab File: VF060340.D
Acq: 25 Sep 2018 22:22

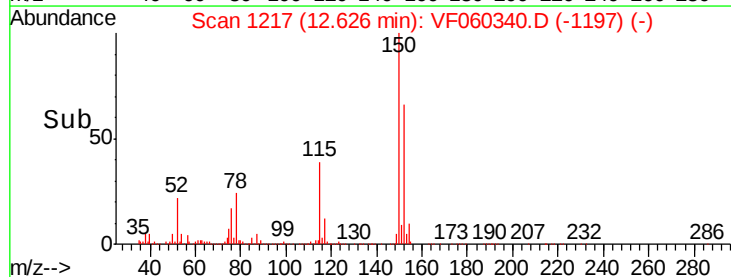
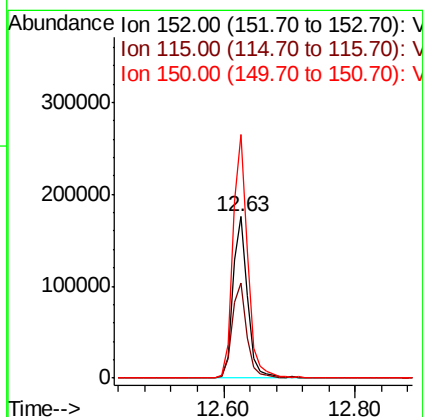
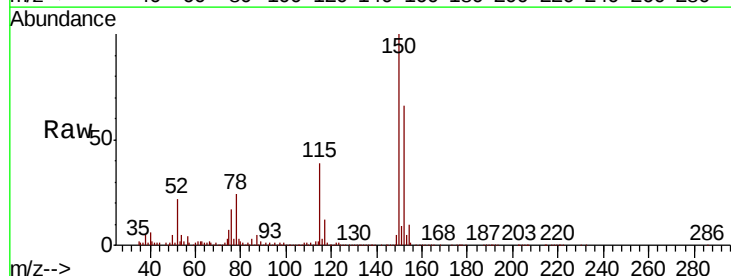
Instrument :
MSVOA_F
ClientSampleId :
TP-B

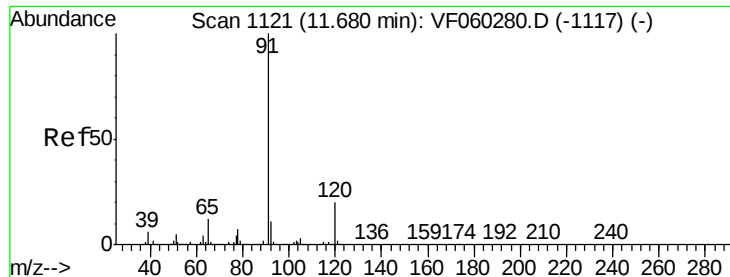
Tgt Ion:117 Resp: 571162
Ion Ratio Lower Upper
117 100
82 58.9 46.2 69.2
119 32.3 27.8 41.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1217
Delta R.T. -0.00 min
Lab File: VF060340.D
Acq: 25 Sep 2018 22:22

Tgt Ion:152 Resp: 271858
Ion Ratio Lower Upper
152 100
115 58.8 32.6 97.8
150 151.1 0.0 314.2

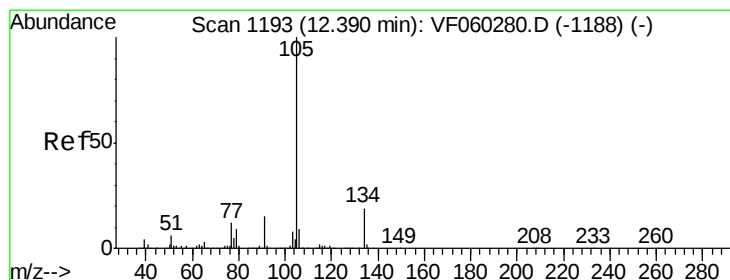
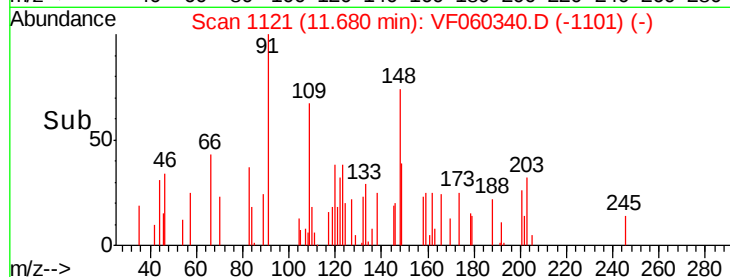
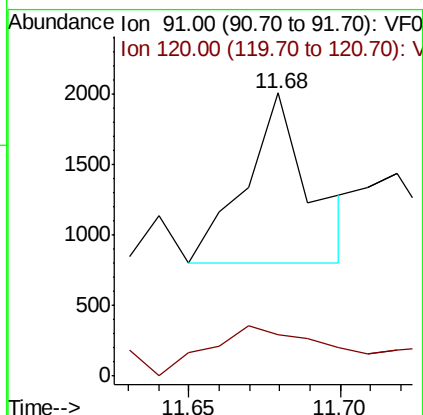
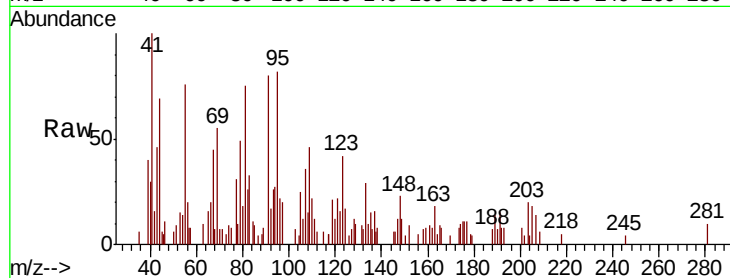




#78
n-propylbenzene
Concen: Below Cal
RT: 11.68 min Scan# 1121
Delta R.T. 0.00 min
Lab File: VF060340.D
Acq: 25 Sep 2018 22:22

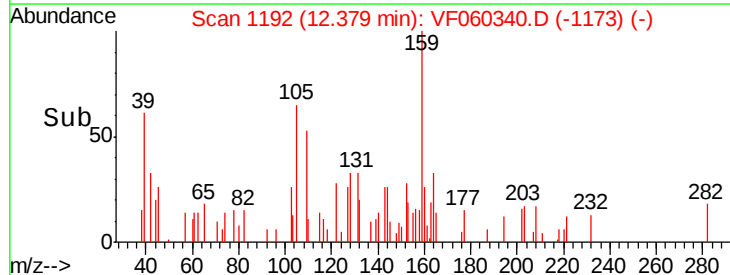
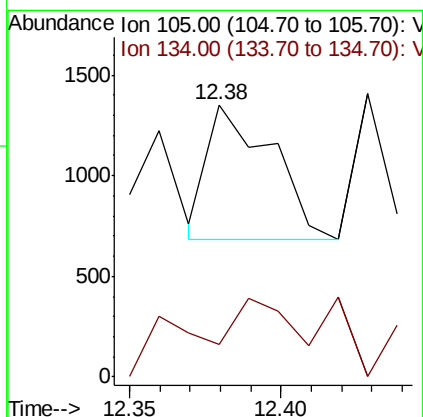
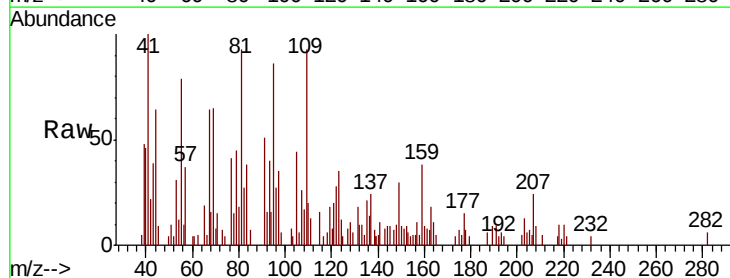
Instrument :
MSVOA_F
ClientSampleId :
TP-B

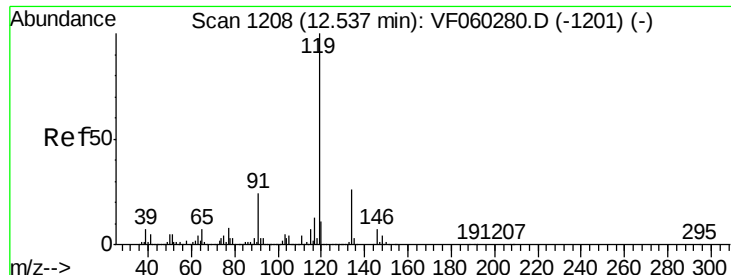
Tgt Ion: 91 Resp: 1779
Ion Ratio Lower Upper
91 100
120 14.8 10.0 29.8



#85
sec-Butylbenzene
Concen: Below Cal
RT: 12.38 min Scan# 1192
Delta R.T. -0.01 min
Lab File: VF060340.D
Acq: 25 Sep 2018 22:22

Tgt Ion: 105 Resp: 999
Ion Ratio Lower Upper
105 100
134 11.8 9.6 28.6

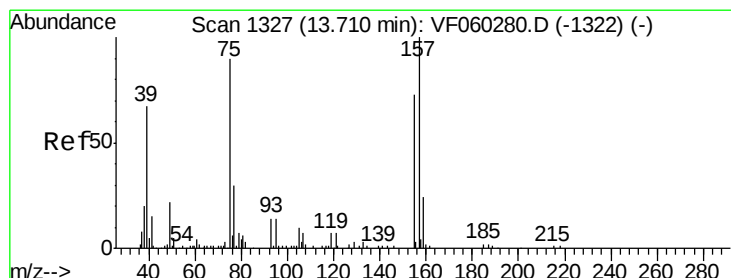
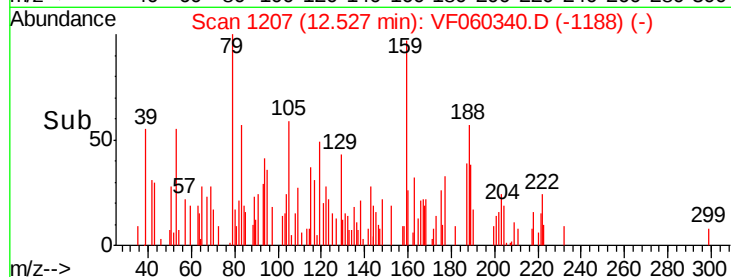
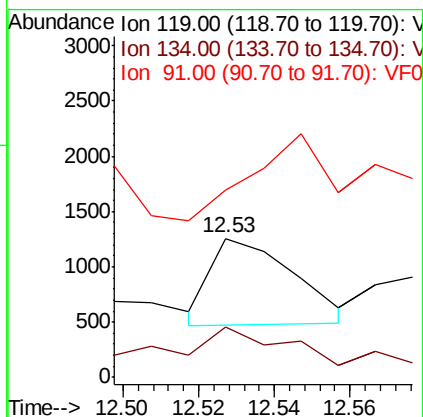
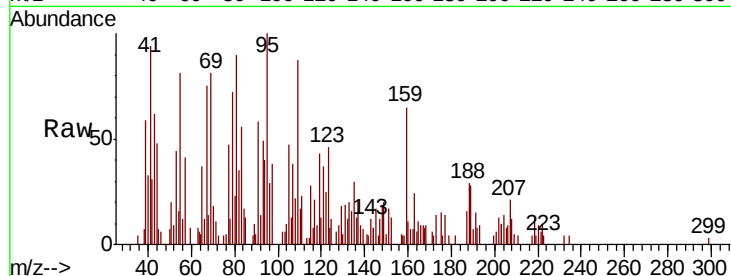




#86
 p-Isopropyltoluene
 Concen: Below Cal
 RT: 12.53 min Scan# 1207
 Delta R.T. -0.01 min
 Lab File: VF060340.D
 Acq: 25 Sep 2018 22:22

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-B

Tgt Ion	Ratio	Lower	Upper
119	100		
134	36.3	12.9	38.7
91	134.4	11.9	35.7#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.426 ug/l
 RT: 13.73 min Scan# 1329
 Delta R.T. 0.02 min
 Lab File: VF060340.D
 Acq: 25 Sep 2018 22:22

Tgt Ion	Ratio	Lower	Upper
75	100		
155	256.6	41.9	125.7#
157	216.5	57.4	172.0#

