

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092618\
 Data File : VF060355.D
 Acq On : 26 Sep 2018 16:48
 Operator : VA/AP
 Sample : J5055-12
 Misc : 5.19/5mL/MSVOA F/SOIL
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-C

Quant Time: Sep 27 03:05:59 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	381028	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	653212	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	560284	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	276356	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.01	65	246082	47.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.92%	
35) Dibromofluoromethane	4.28	113	293583	50.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.84%	
50) Toluene-d8	7.70	98	689287	45.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.92%	
62) 4-Bromofluorobenzene	11.51	95	273573	41.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.48%	

Target Compounds

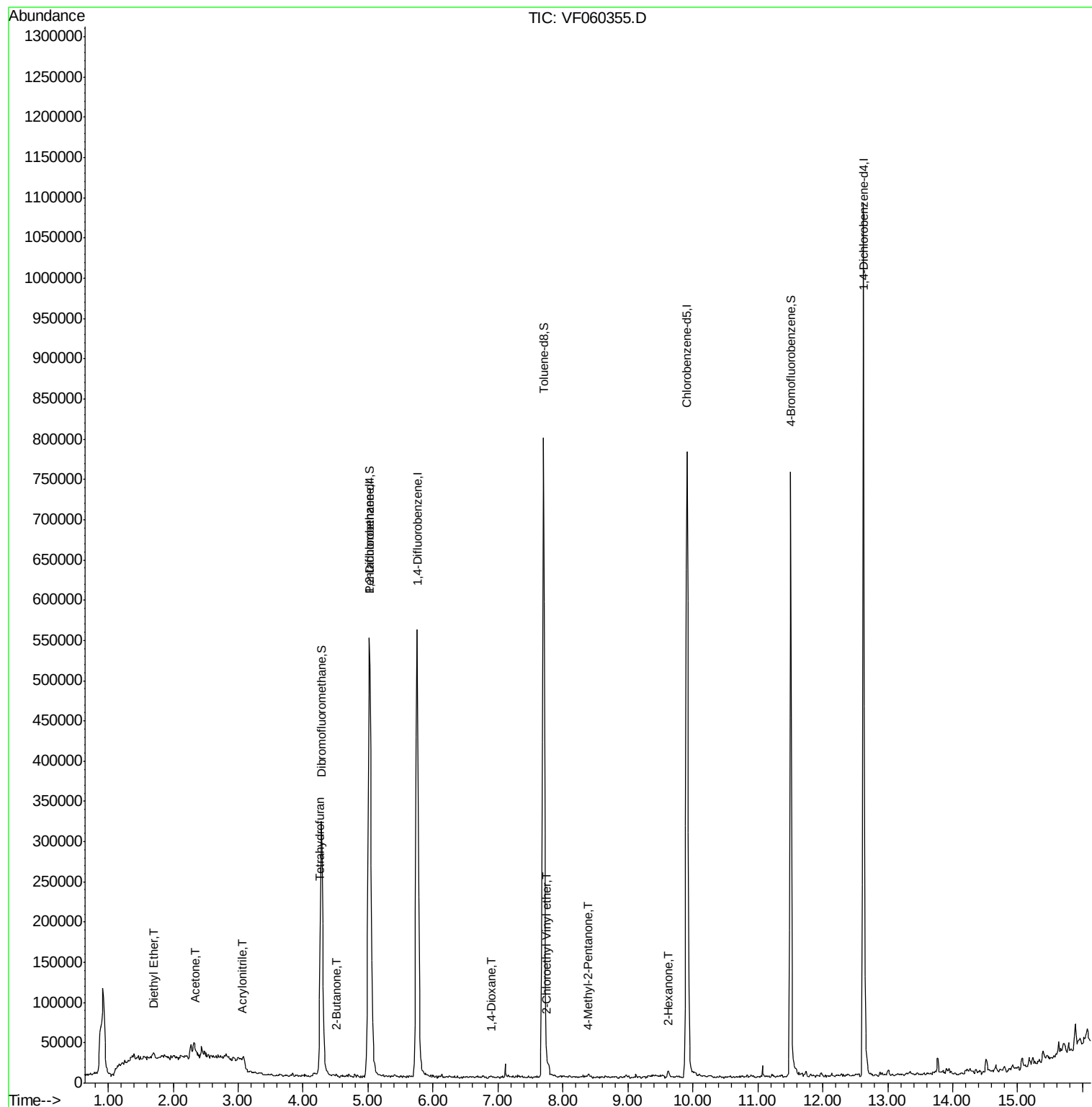
					Qvalue	
2) Dichlorodifluoromethane	1.01	85	582	Below Cal	#	40
5) Bromomethane	1.41	94	771	Below Cal		88
8) Diethyl Ether	1.70	74	2995	1.826 ug/l	#	20
11) Tert butyl alcohol	2.68	59	621	Below Cal	#	1
13) Acrolein	2.15	56	673	Below Cal		88
15) Acrylonitrile	3.06	53	2005	2.767 ug/l	#	46
16) Acetone	2.35	43	5169	3.577 ug/l		92
17) Carbon Disulfide	1.86	76	791	Below Cal	#	1
20) Methylene Chloride	2.27	84	6745	Below Cal	#	86
25) 2-Butanone	4.51	43	2358	1.212 ug/l	#	56
29) Tetrahydrofuran	4.25	42	1643	2.307 ug/l	#	69
49) 1,4-Dioxane	6.91	88	79	3.035 ug/l	#	1
51) 4-Methyl-2-Pentanone	8.40	43	3272	1.023 ug/l		97
58) 2-Chloroethyl Vinyl ether	7.76	63	1118	2.952 ug/l		100
59) 2-Hexanone	9.62	43	8468	3.718 ug/l		94
78) n-propylbenzene	11.68	91	1659	Below Cal	#	54
85) sec-Butylbenzene	12.38	105	1360	Below Cal	#	78
86) p-Isopropyltoluene	12.53	119	1528	Below Cal	#	72
89) n-Butylbenzene	12.92	91	2279	Below Cal		89

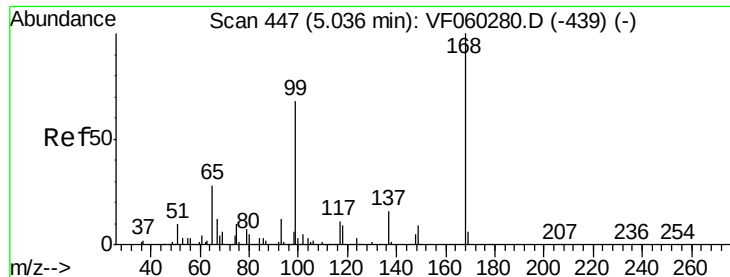
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 446

Delta R.T. -0.00 min

Lab File: VF060355.D

Acq: 26 Sep 2018 16:48

Instrument :

MSVOA_F

ClientSampleId :

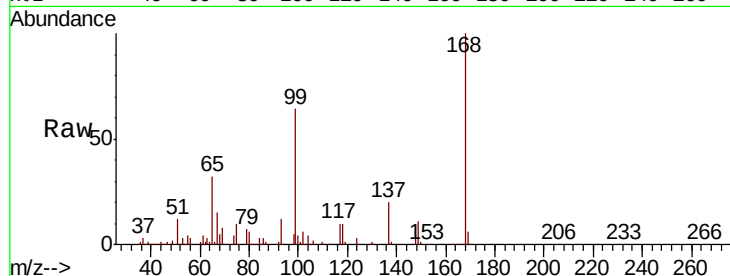
TP-C

Tot Ion:168 Resp: 381028

Ion Ratio Lower Upper

168 100

99 64.0 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

150000

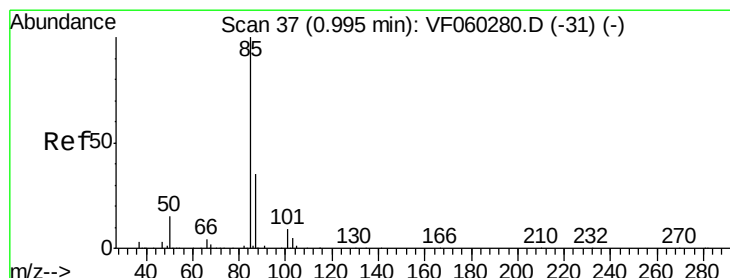
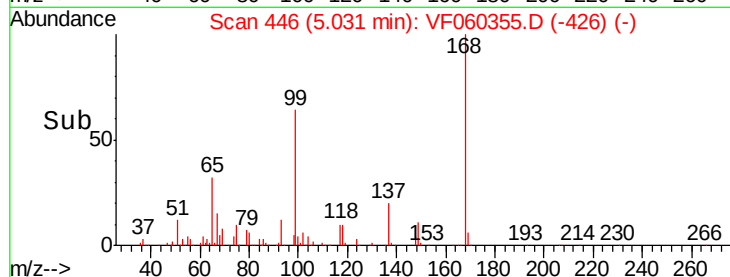
100000

50000

0

4.90 5.00 5.10 5.20

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.01 min Scan# 38

Delta R.T. 0.02 min

Lab File: VF060355.D

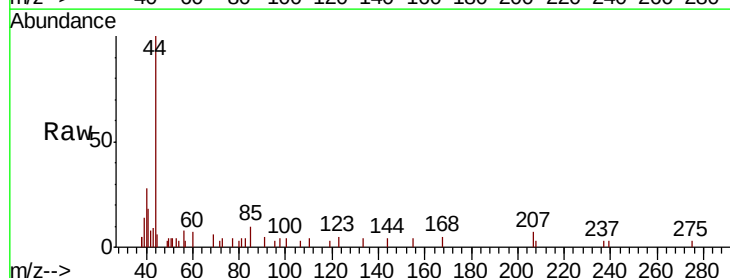
Acq: 26 Sep 2018 16:48

Tgt Ion: 85 Resp: 582

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

1.01

400

300

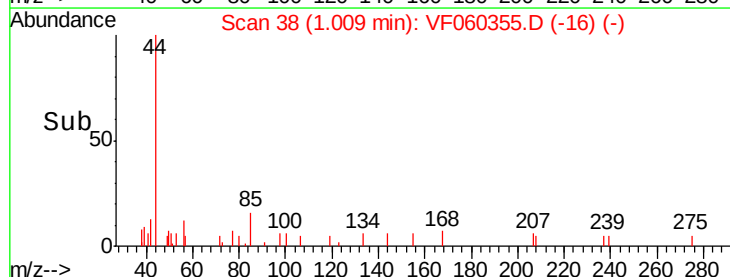
200

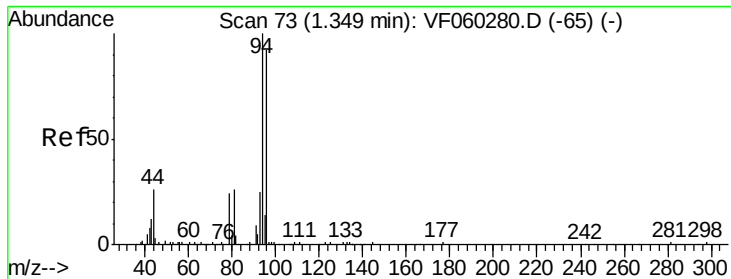
100

0

0.95 1.00 1.05

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.41 min Scan# 79

Delta R.T. 0.06 min

Lab File: VF060355.D

Acq: 26 Sep 2018 16:48

Instrument :

MSVOA_F

ClientSampled :

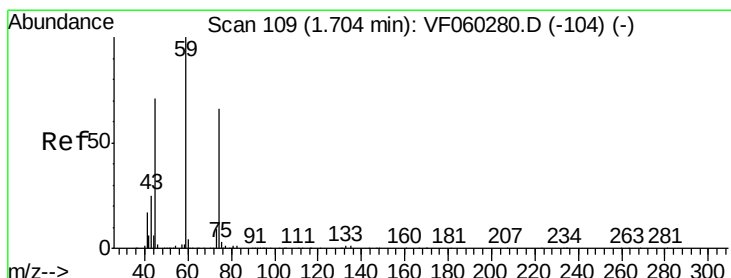
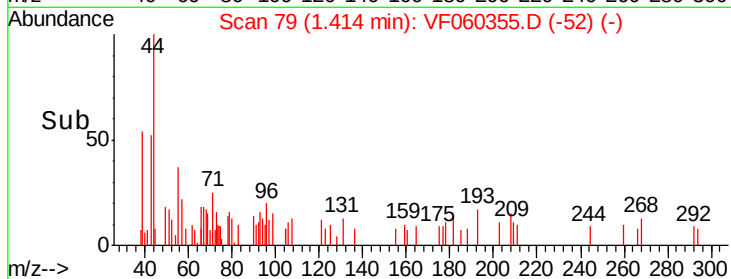
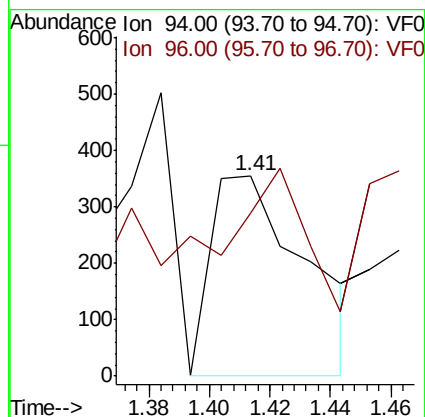
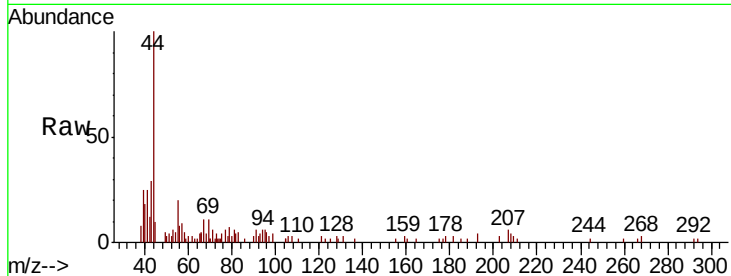
TP-C

Tot Ion: 94 Resp: 771

Ion Ratio Lower Upper

94 100

96 81.1 73.9 110.9



#8

Diethyl Ether

Concen: 1.826 ug/l

RT: 1.70 min Scan# 108

Delta R.T. -0.00 min

Lab File: VF060355.D

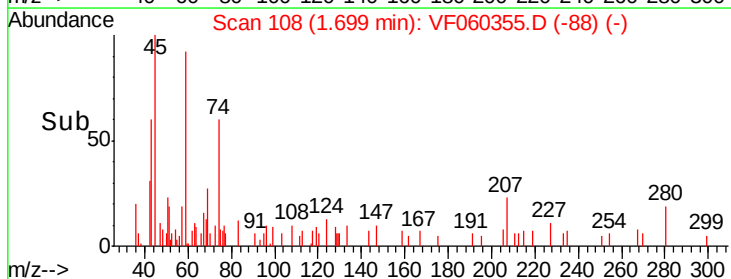
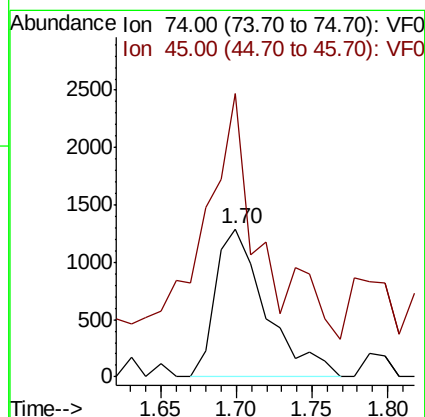
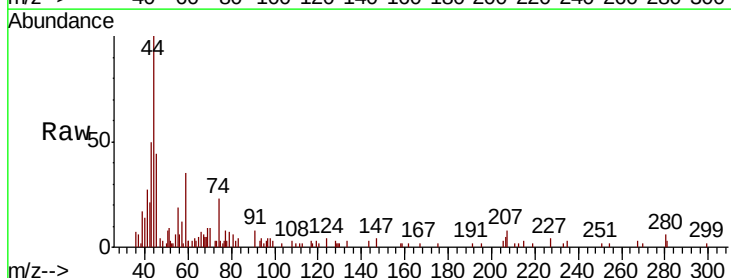
Acq: 26 Sep 2018 16:48

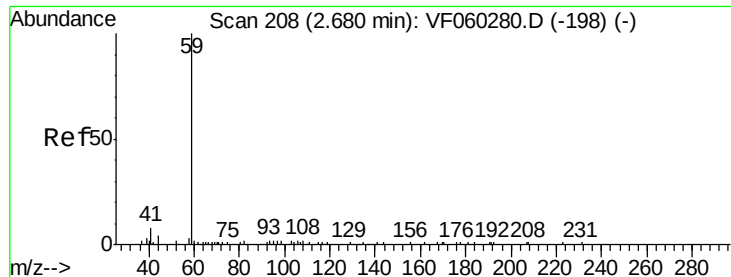
Tgt Ion: 74 Resp: 2995

Ion Ratio Lower Upper

74 100

45 191.2 53.9 161.7#



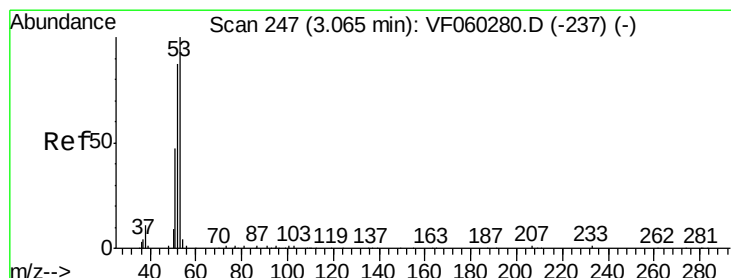
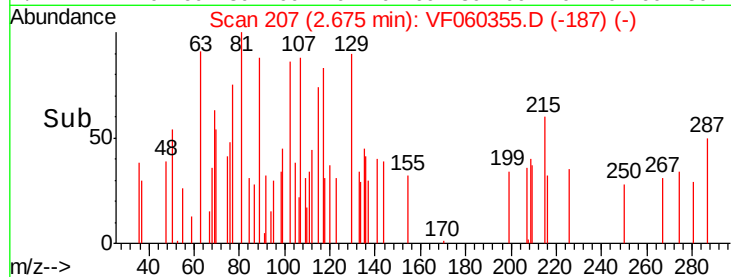
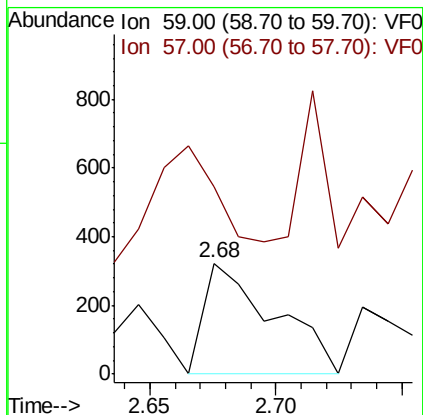
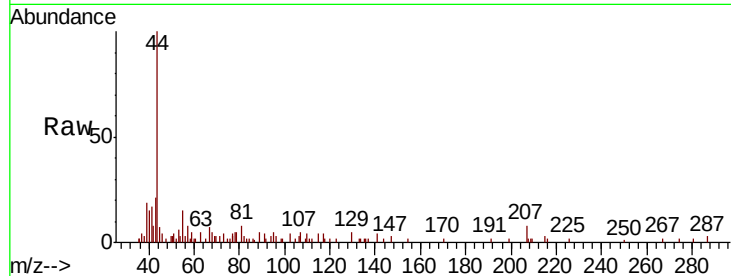


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 2.68 min Scan# 207
 Delta R.T. -0.00 min
 Lab File: VF060355.D
 Acq: 26 Sep 2018 16:48

Instrument :
 MSVOA_F
 ClientSampled :
 TP-C

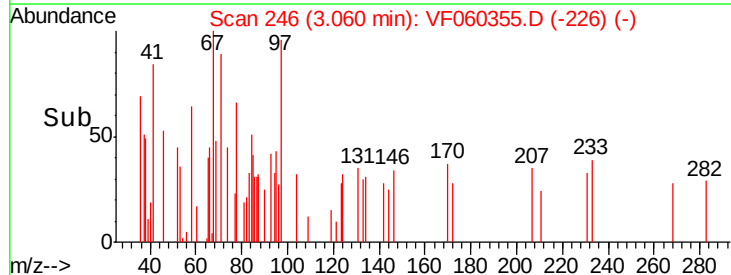
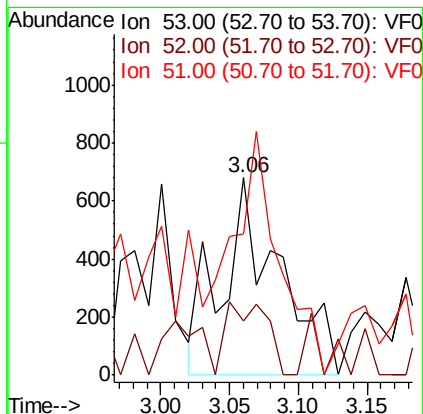
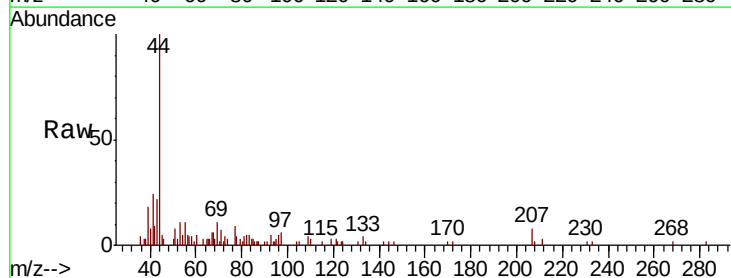
Tot Ion: 59 Resp: 621
 Ion Ratio Lower Upper
 59 100
 57 169.3 12.4 18.6#

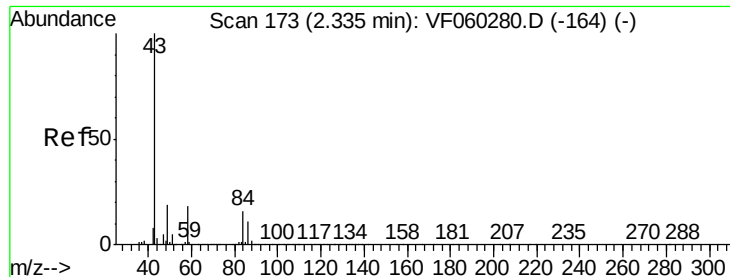


#15

Acrylonitrile
 Concen: 2.767 ug/l
 RT: 3.06 min Scan# 246
 Delta R.T. -0.00 min
 Lab File: VF060355.D
 Acq: 26 Sep 2018 16:48

Tgt Ion: 53 Resp: 2005
 Ion Ratio Lower Upper
 53 100
 52 27.2 69.5 104.3#
 51 71.3 38.1 57.1#





#16

Acetone

Concen: 3.577 ug/l

RT: 2.35 min Scan# 174

Delta R.T. 0.01 min

Lab File: VF060355.D

Acq: 26 Sep 2018 16:48

Instrument :

MSVOA_F

ClientSampled :

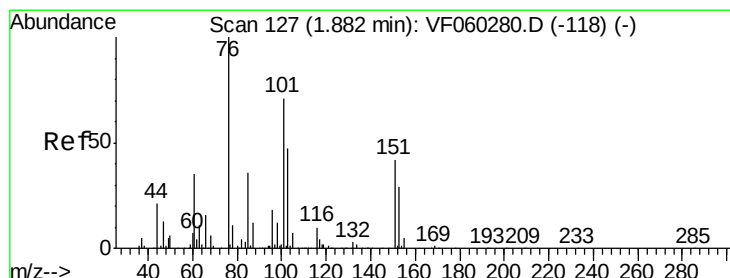
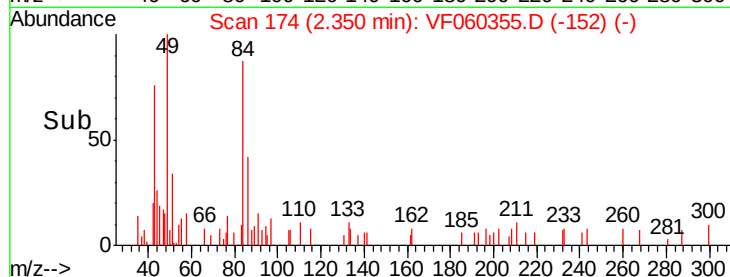
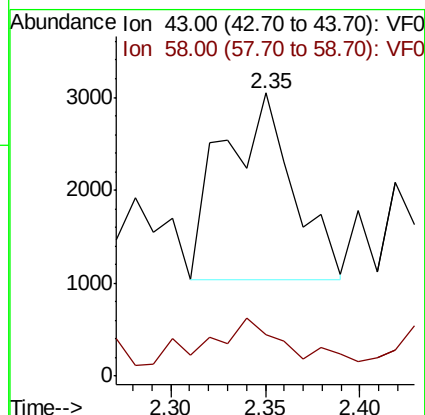
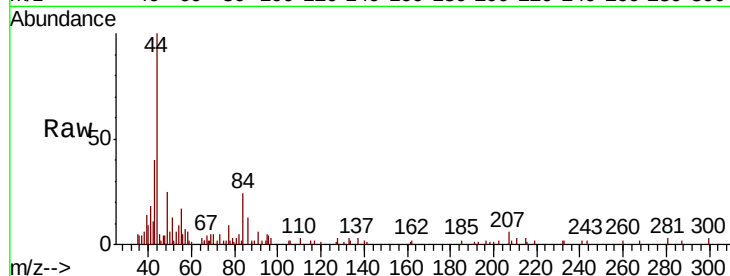
TP-C

Tot Ion: 43 Resp: 5169

Ion Ratio Lower Upper

43 100

58 14.5 14.5 21.7



#17

Carbon Disulfide

Concen: Below Cal

RT: 1.86 min Scan# 124

Delta R.T. -0.02 min

Lab File: VF060355.D

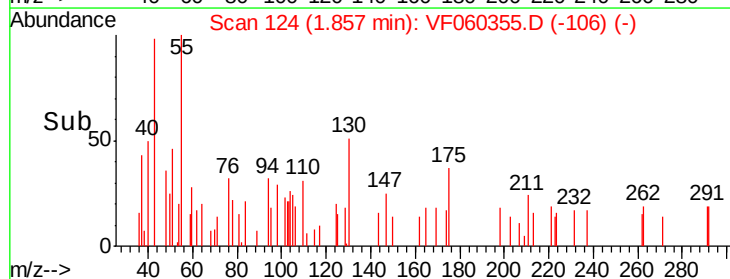
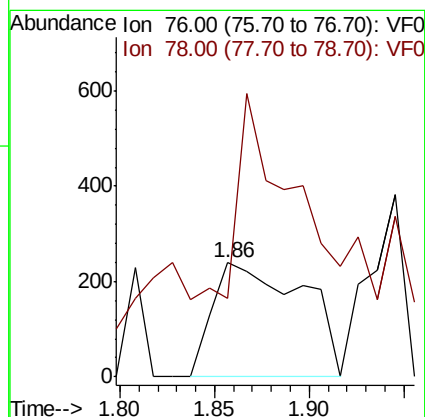
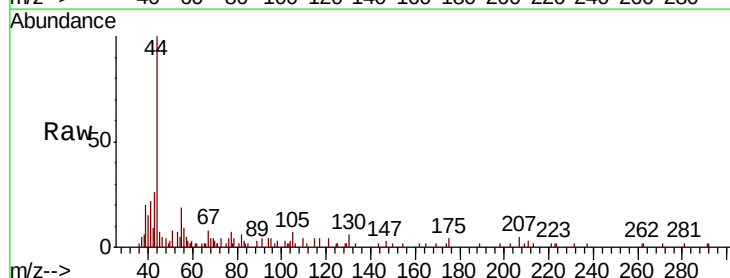
Acq: 26 Sep 2018 16:48

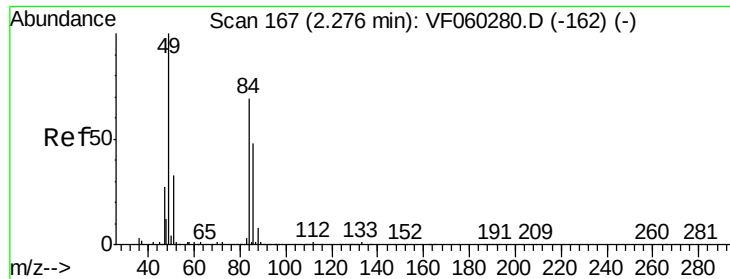
Tgt Ion: 76 Resp: 791

Ion Ratio Lower Upper

76 100

78 68.8 9.4 14.0#

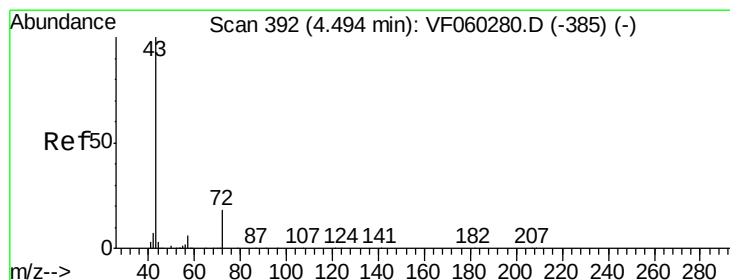
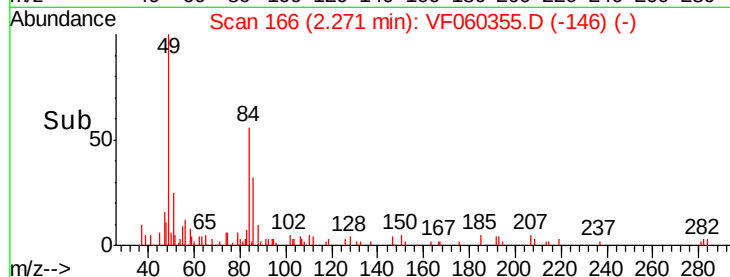
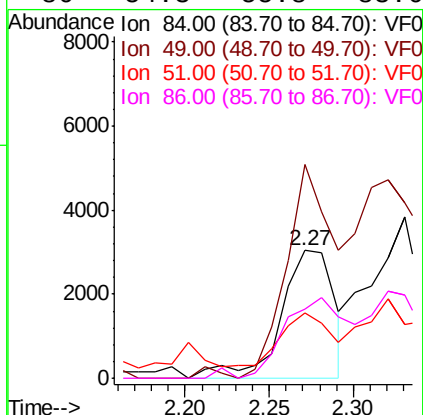
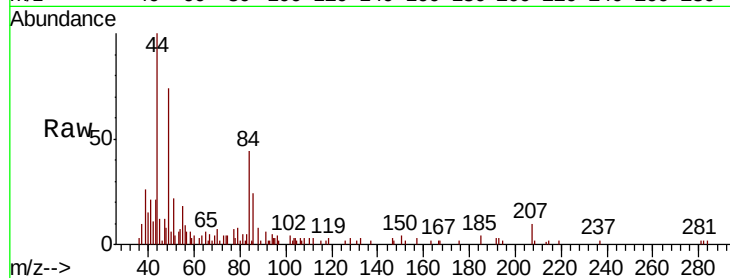




#20
Methylene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 166
Delta R.T. -0.00 min
Lab File: VF060355.D
Acq: 26 Sep 2018 16:48

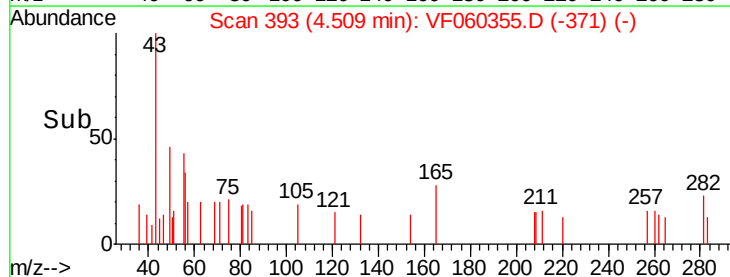
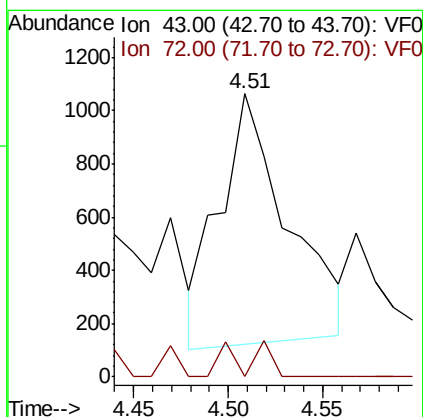
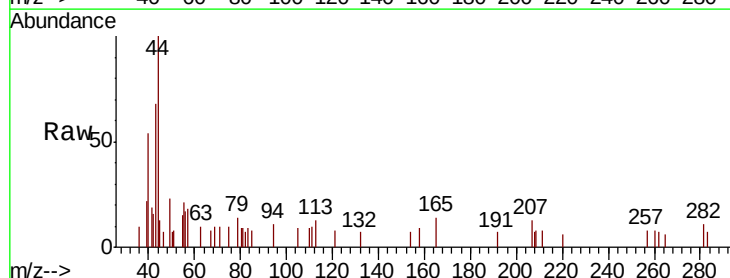
Instrument :
MSVOA_F
ClientSampleId :
TP-C

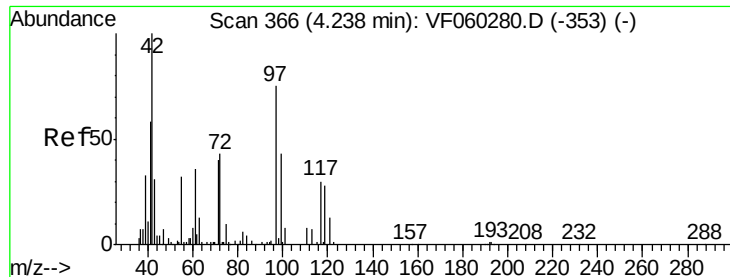
Tot Ion: 84 Resp: 6745
Ion Ratio Lower Upper
84 100
49 167.6 118.3 177.5
51 50.9 38.7 58.1
86 54.3 55.8 83.6#



#25
2-Butanone
Concen: 1.212 ug/l
RT: 4.51 min Scan# 393
Delta R.T. 0.01 min
Lab File: VF060355.D
Acq: 26 Sep 2018 16:48

Tgt Ion: 43 Resp: 2358
Ion Ratio Lower Upper
43 100
72 0.0 16.2 24.2#





#29

Tetrahydrofuran

Concen: 2.307 ug/l

RT: 4.25 min Scan# 367

Delta R.T. 0.01 min

Lab File: VF060355.D

Acq: 26 Sep 2018 16:48

Instrument :

MSVOA_F

ClientSampleId :

TP-C

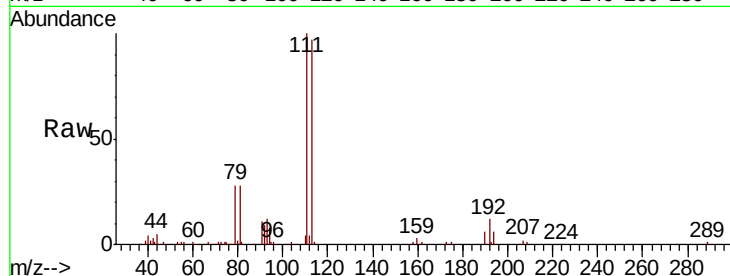
Tot Ion: 42 Resp: 1643

Ion Ratio Lower Upper

42 100

72 21.4 32.6 49.0#

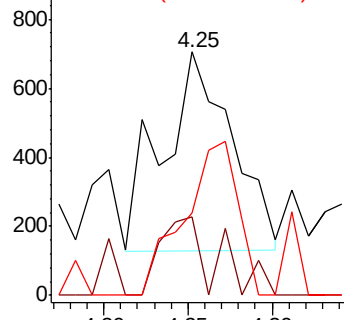
71 60.2 32.7 49.1#



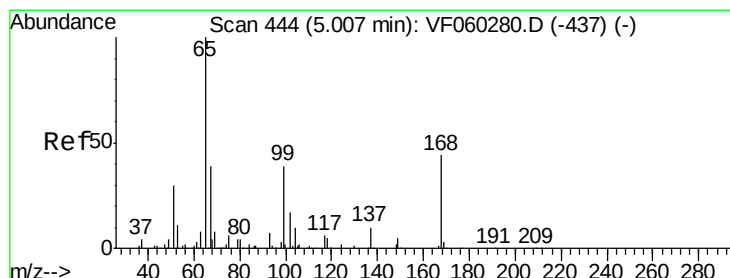
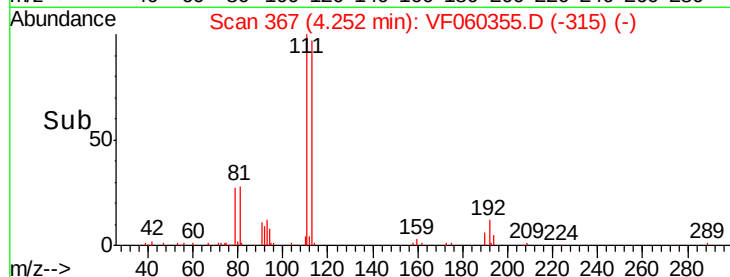
Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



Time-->



#33

1,2-Dichloroethane-d4

Concen: 47.963 ug/l

RT: 5.01 min Scan# 444

Delta R.T. 0.00 min

Lab File: VF060355.D

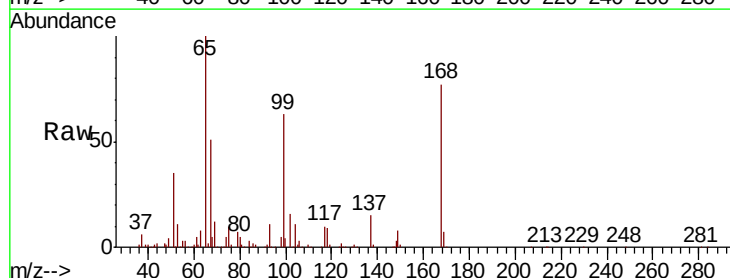
Acq: 26 Sep 2018 16:48

Tgt Ion: 65 Resp: 246082

Ion Ratio Lower Upper

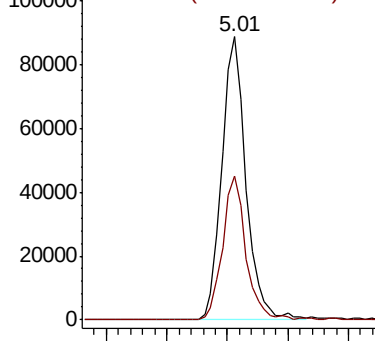
65 100

67 50.7 0.0 94.4

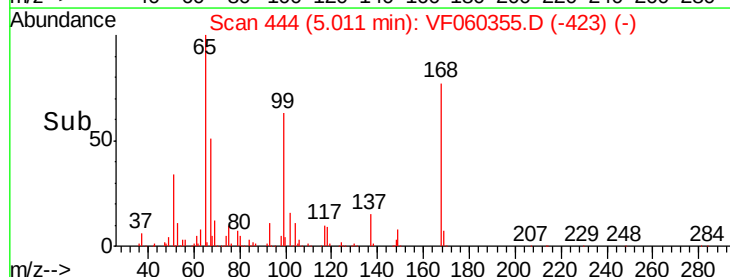


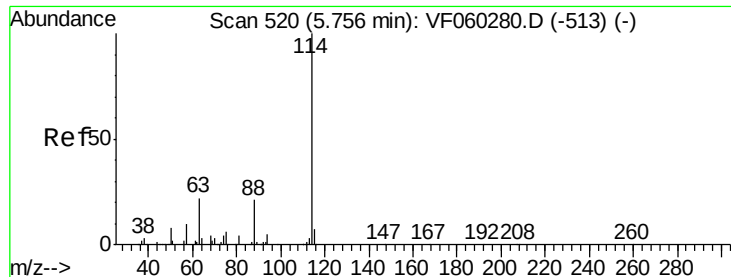
Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.76 min Scan# 520

Delta R.T. 0.00 min

Lab File: VF060355.D

Acq: 26 Sep 2018 16:48

Instrument :

MSVOA_F

ClientSampleId :

TP-C

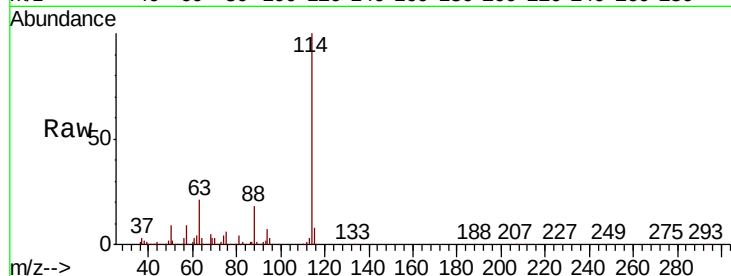
Tot Ion:114 Resp: 653212

Ion Ratio Lower Upper

114 100

63 20.8 0.0 43.8

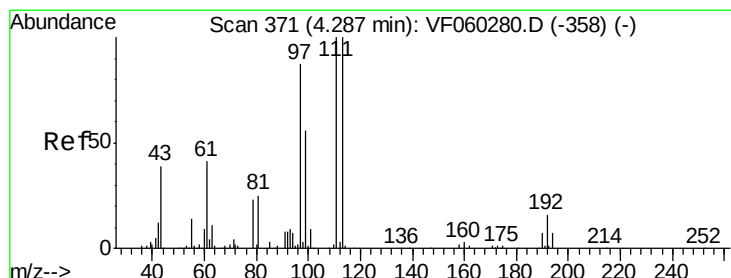
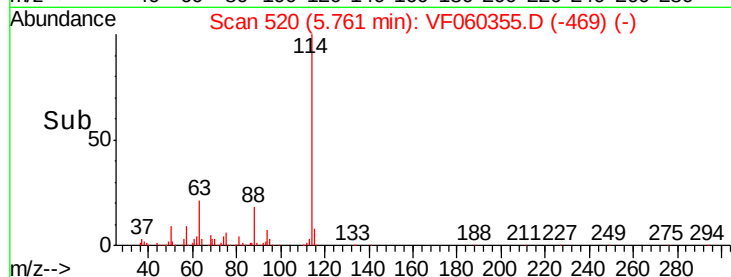
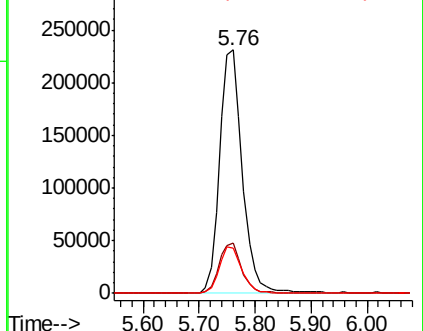
88 18.3 0.0 41.2



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: 50.419 ug/l

RT: 4.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VF060355.D

Acq: 26 Sep 2018 16:48

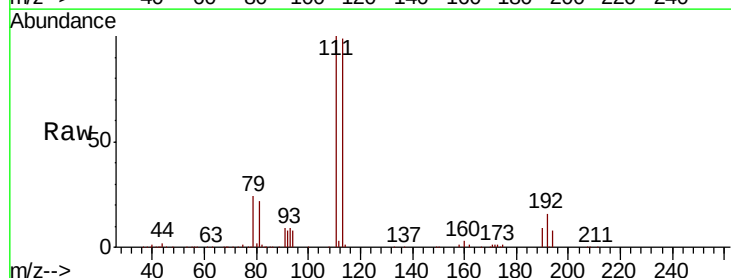
Tgt Ion:113 Resp: 293583

Ion Ratio Lower Upper

113 100

111 101.1 79.6 119.4

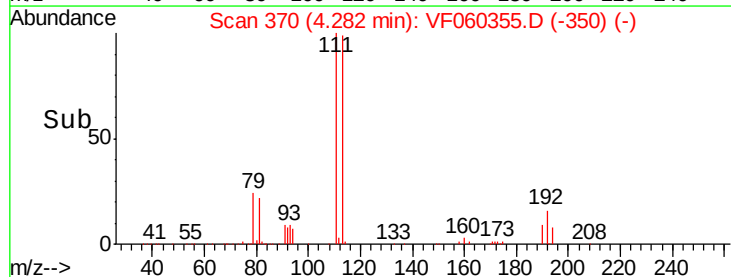
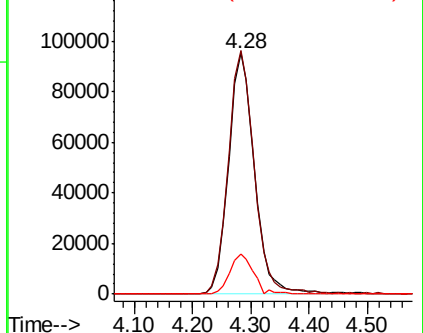
192 16.6 13.0 19.6

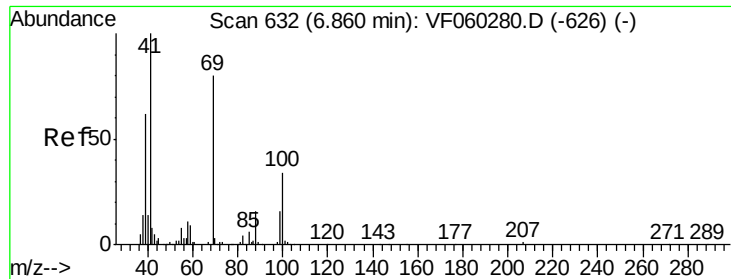


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#49

1,4-Dioxane

Concen: 3.035 ug/l

RT: 6.91 min Scan# 637

Delta R.T. 0.05 min

Lab File: VF060355.D

Acq: 26 Sep 2018 16:48

Instrument :

MSVOA_F

ClientSampleId :

TP-C

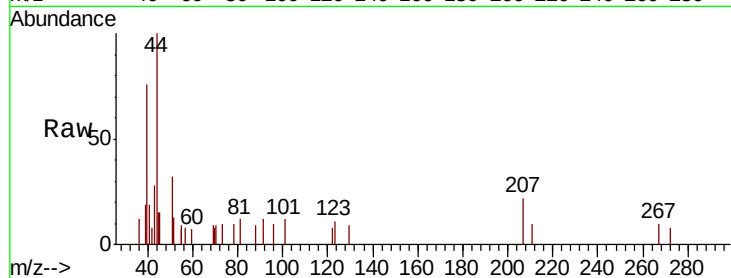
Tot Ion: 88 Resp: 79

Ion Ratio Lower Upper

88 100

43 294.0 40.2 60.4#

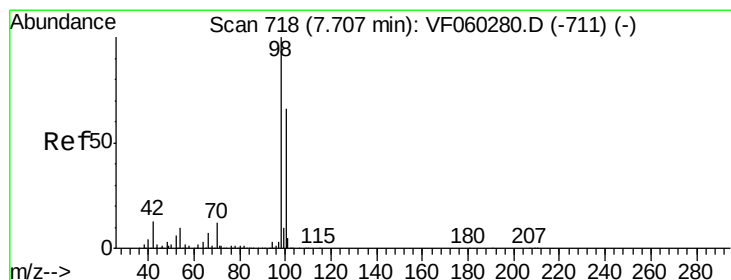
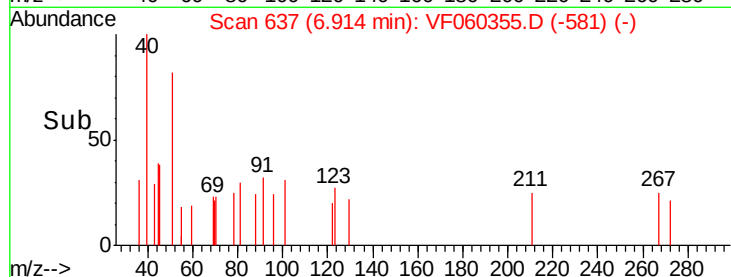
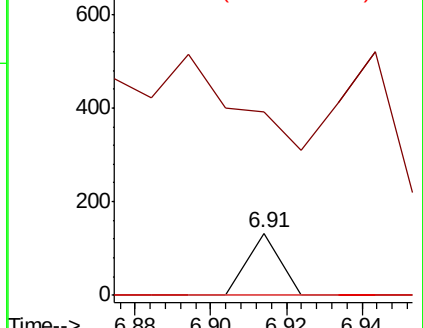
58 0.0 56.7 85.1#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 45.455 ug/l

RT: 7.70 min Scan# 717

Delta R.T. -0.00 min

Lab File: VF060355.D

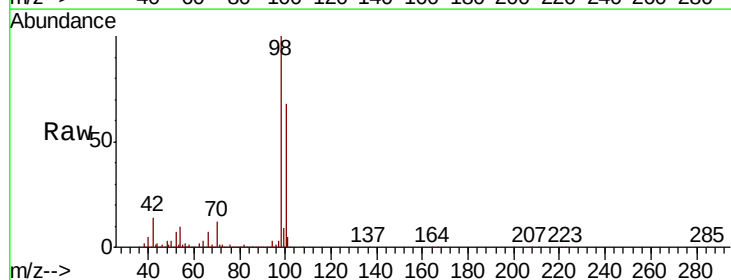
Acq: 26 Sep 2018 16:48

Tgt Ion: 98 Resp: 689287

Ion Ratio Lower Upper

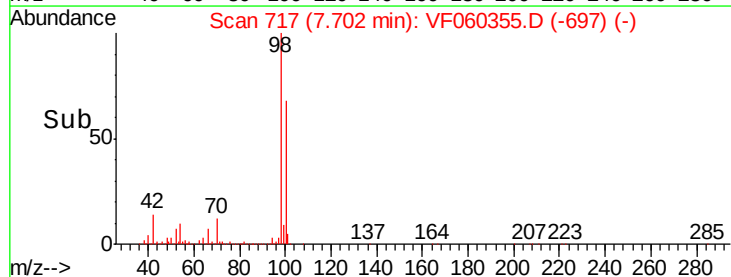
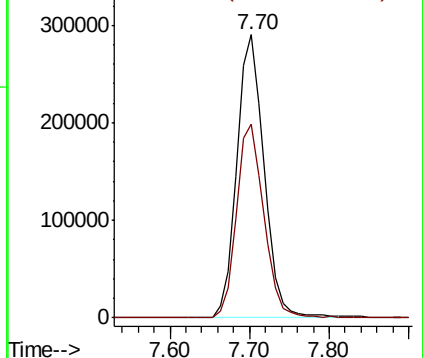
98 100

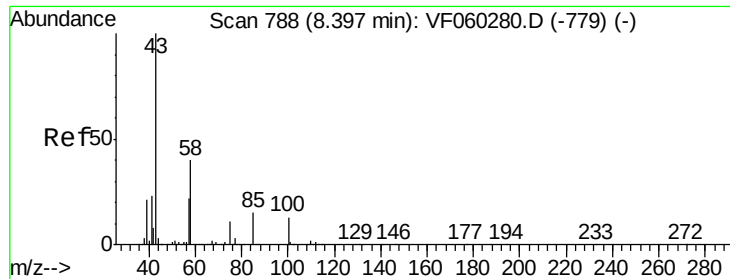
100 68.5 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

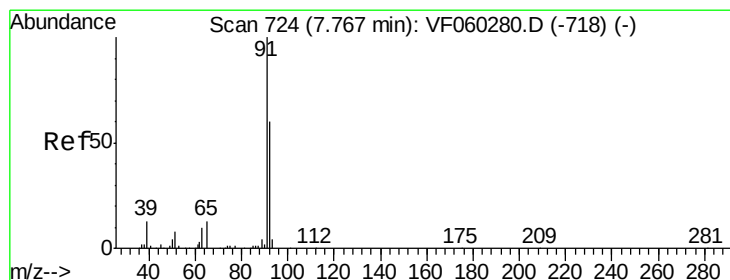
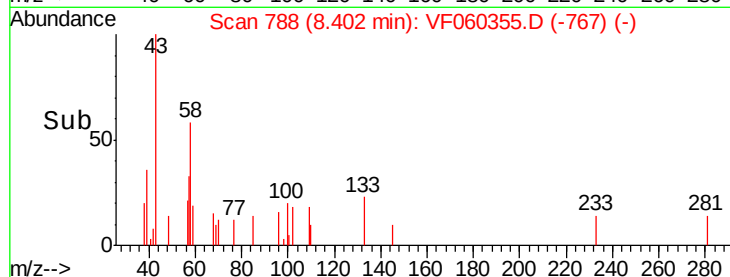
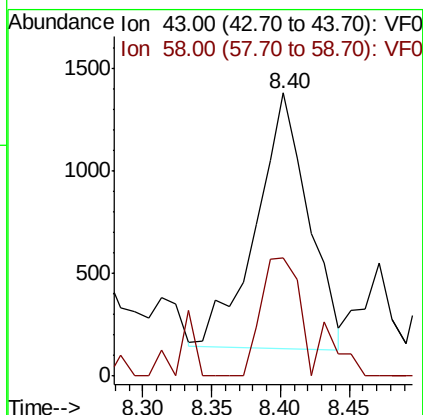
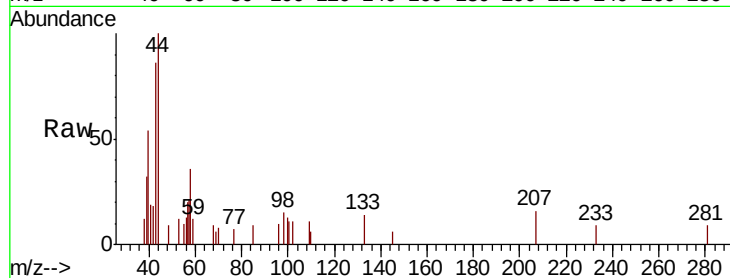




#51
4-Methyl-2-Pentanone
Concen: 1.023 ug/l
RT: 8.40 min Scan# 788
Delta R.T. 0.00 min
Lab File: VF060355.D
Acq: 26 Sep 2018 16:48

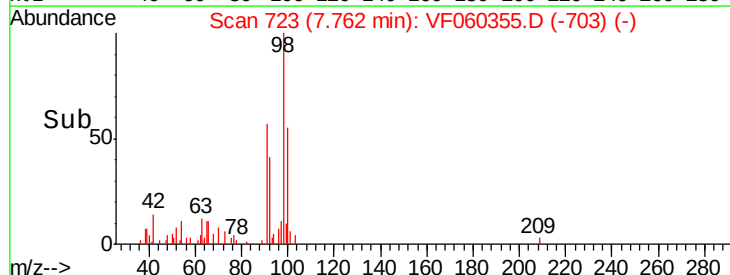
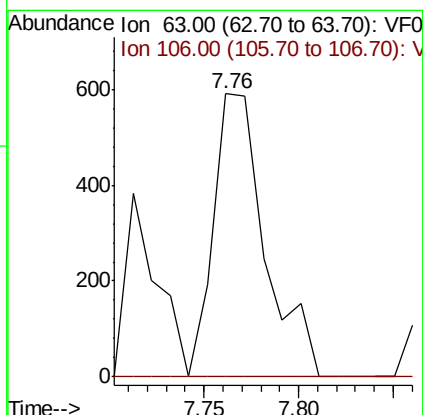
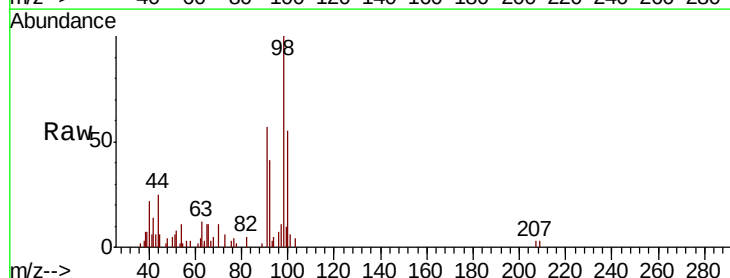
Instrument :
MSVOA_F
ClientSampled :
TP-C

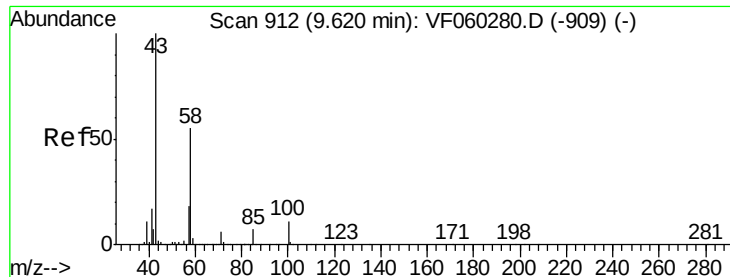
Tot Ion: 43 Resp: 3272
Ion Ratio Lower Upper
43 100
58 41.9 31.8 47.8



#58
2-Chloroethyl Vinyl ether
Concen: 2.952 ug/l
RT: 7.76 min Scan# 723
Delta R.T. -0.00 min
Lab File: VF060355.D
Acq: 26 Sep 2018 16:48

Tgt Ion: 63 Resp: 1118
Ion Ratio Lower Upper
63 100
106 0.0 0.0 0.0

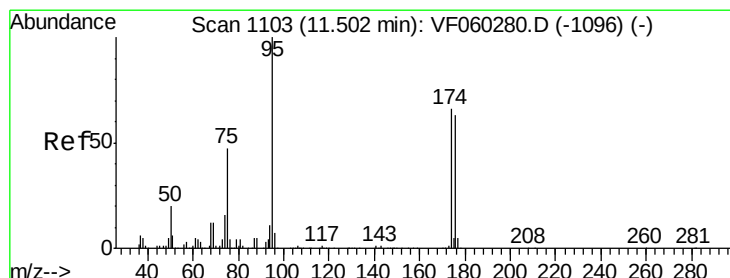
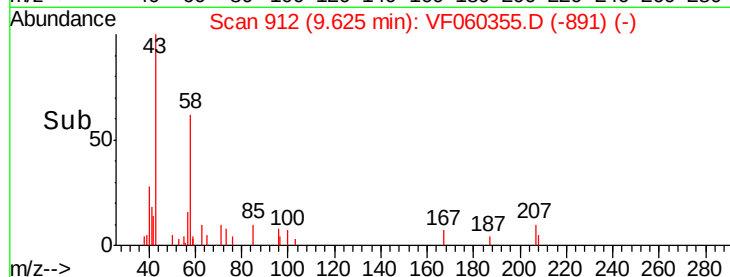
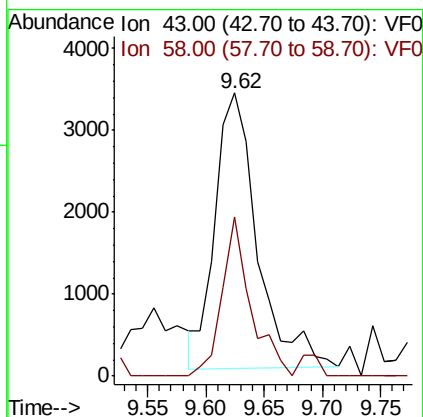
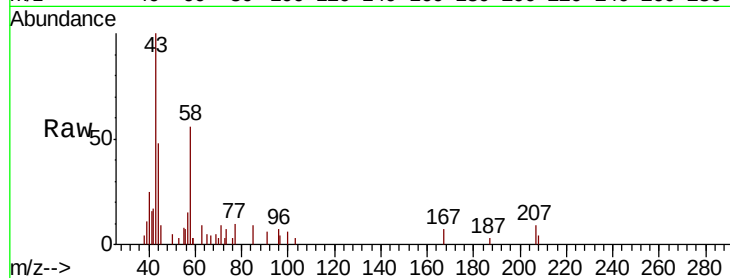




#59
2-Hexanone
Concen: 3.718 ug/l
RT: 9.62 min Scan# 912
Delta R.T. 0.00 min
Lab File: VF060355.D
Acq: 26 Sep 2018 16:48

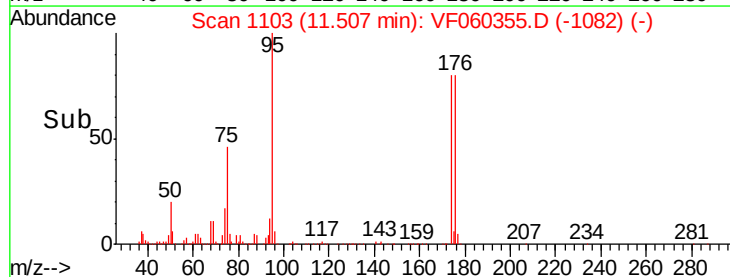
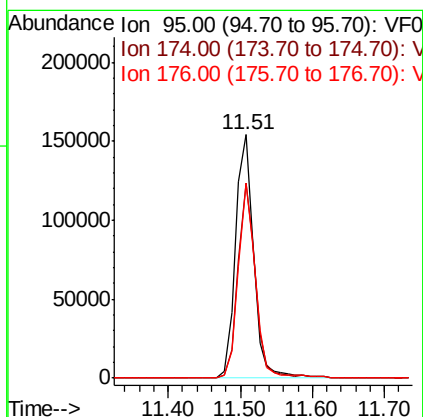
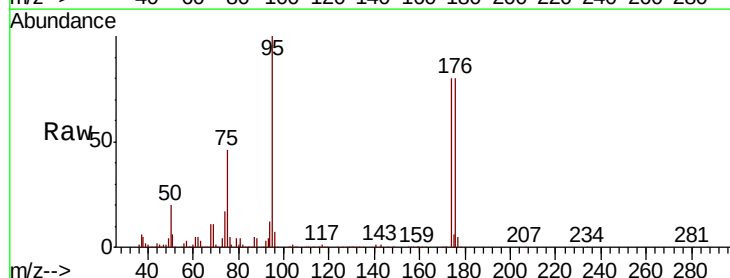
Instrument :
MSVOA_F
ClientSampleId :
TP-C

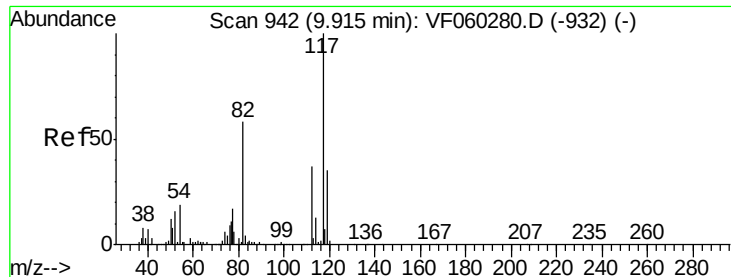
Tot Ion: 43 Resp: 8468
Ion Ratio Lower Upper
43 100
58 56.1 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 41.735 ug/l
RT: 11.51 min Scan# 1103
Delta R.T. 0.00 min
Lab File: VF060355.D
Acq: 26 Sep 2018 16:48

Tgt Ion: 95 Resp: 273573
Ion Ratio Lower Upper
95 100
174 79.8 0.0 131.2
176 80.2 0.0 126.6

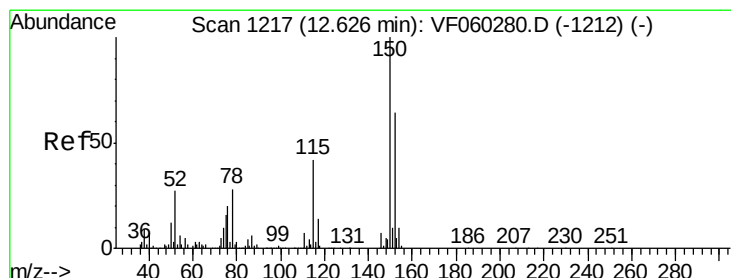
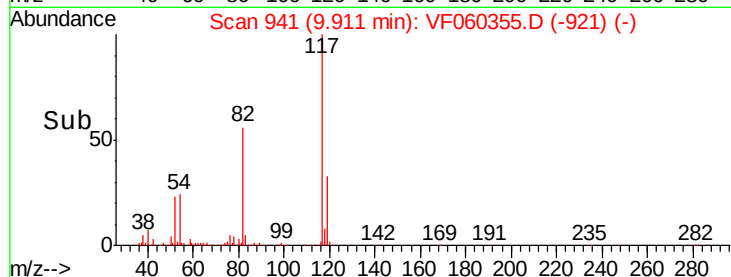
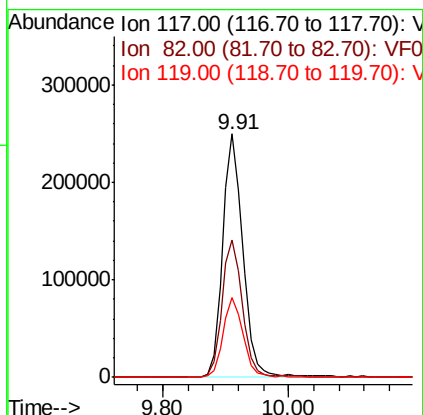
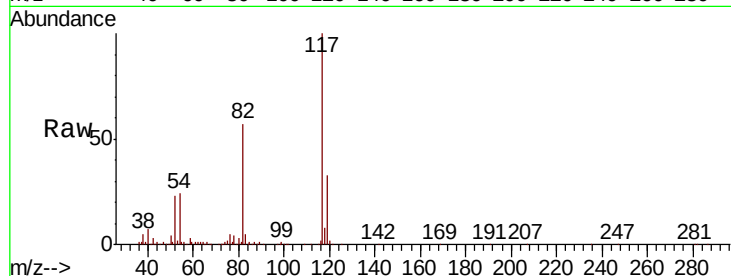




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.00 min
Lab File: VF060355.D
Acq: 26 Sep 2018 16:48

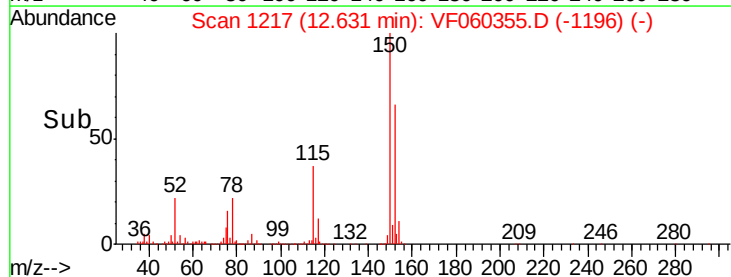
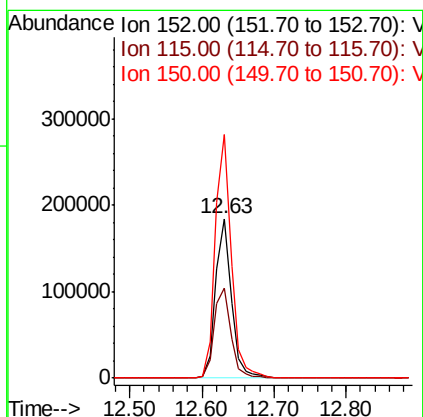
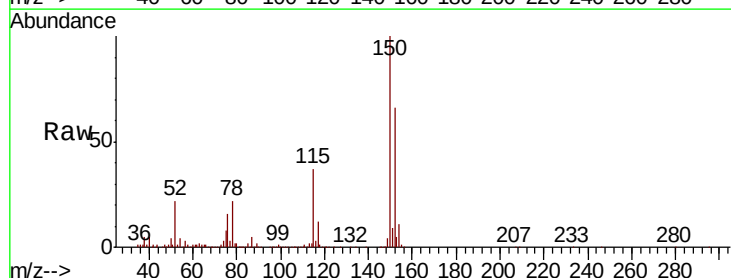
Instrument :
MSVOA_F
ClientSampleId :
TP-C

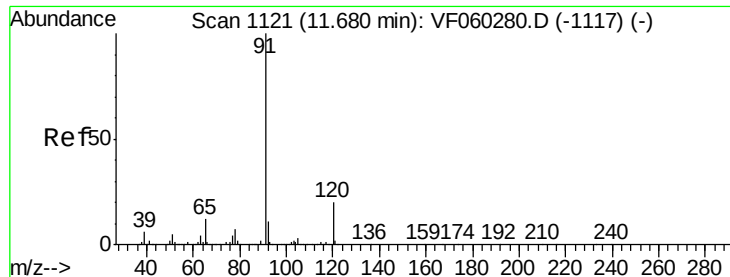
Tot Ion:117 Resp: 560284
Ion Ratio Lower Upper
117 100
82 56.5 46.2 69.2
119 32.6 27.8 41.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1217
Delta R.T. 0.00 min
Lab File: VF060355.D
Acq: 26 Sep 2018 16:48

Tgt Ion:152 Resp: 276356
Ion Ratio Lower Upper
152 100
115 56.6 32.6 97.8
150 152.4 0.0 314.2





#78

n-propylbenzene

Concen: Below Cal

RT: 11.68 min Scan# 1121

Delta R.T. 0.01 min

Lab File: VF060355.D

Acq: 26 Sep 2018 16:48

Instrument :

MSVOA_F

ClientSampled :

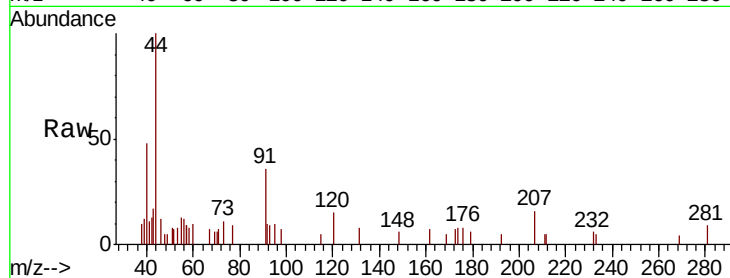
TP-C

Tot Ion: 91 Resp: 1659

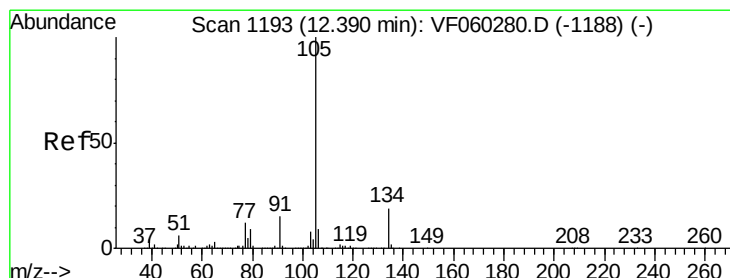
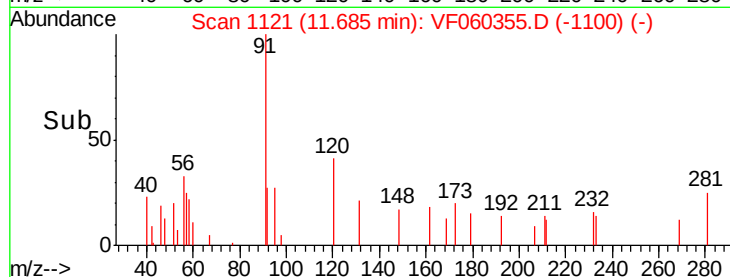
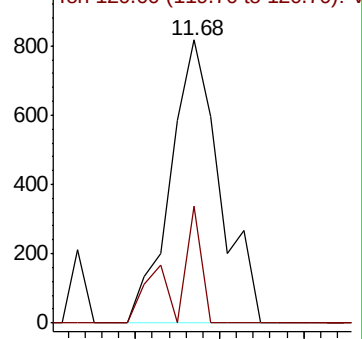
Ion Ratio Lower Upper

91 100

120 41.1 10.0 29.8#



Abundance Ion 91.00 (90.70 to 91.70): VF0



#85

sec-Butylbenzene

Concen: Below Cal

RT: 12.38 min Scan# 1192

Delta R.T. -0.00 min

Lab File: VF060355.D

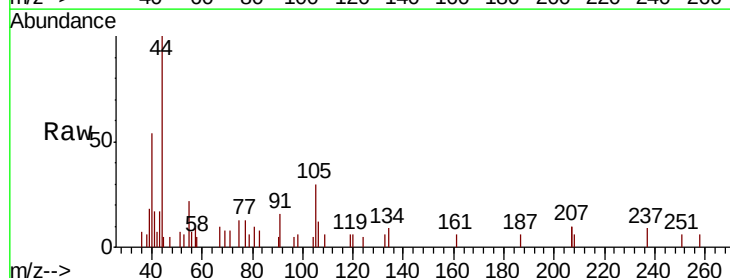
Acq: 26 Sep 2018 16:48

Tgt Ion:105 Resp: 1360

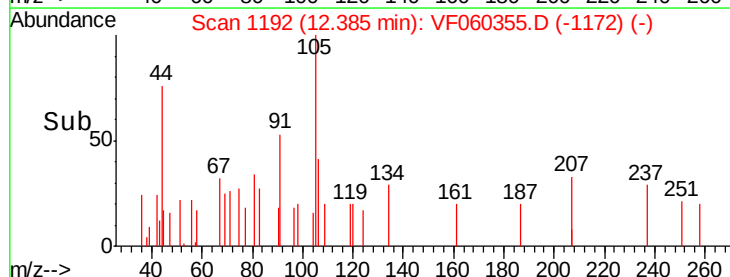
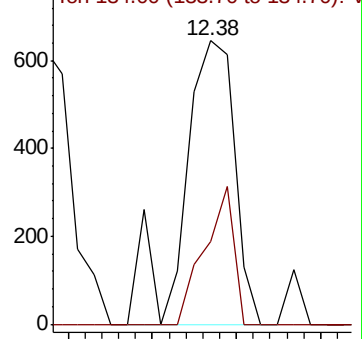
Ion Ratio Lower Upper

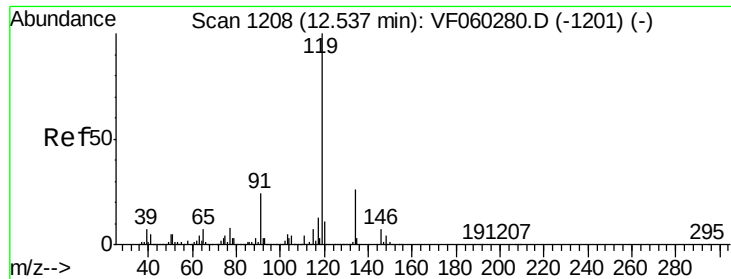
105 100

134 29.0 9.6 28.6#



Abundance Ion 105.00 (104.70 to 105.70): V

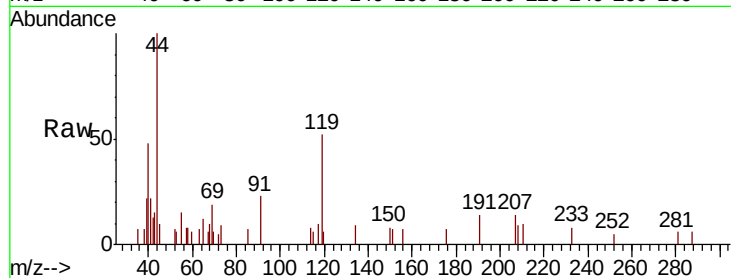




#86
 p-Isopropyltoluene
 Concen: Below Cal
 RT: 12.53 min Scan# 1207
 Delta R.T. -0.00 min
 Lab File: VF060355.D
 Acq: 26 Sep 2018 16:48

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-C

Tot Ion	Ratio	Lower	Upper
119	100		
134	17.3	12.9	38.7
91	44.0	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

