

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092818\
 Data File : VF060372.D
 Acq On : 28 Sep 2018 17:35
 Operator : VA/AP
 Sample : J4771-05
 Misc : 5.23/5mL/MSVOA F/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 NB-08-092718

Quant Time: Sep 29 00:17:19 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

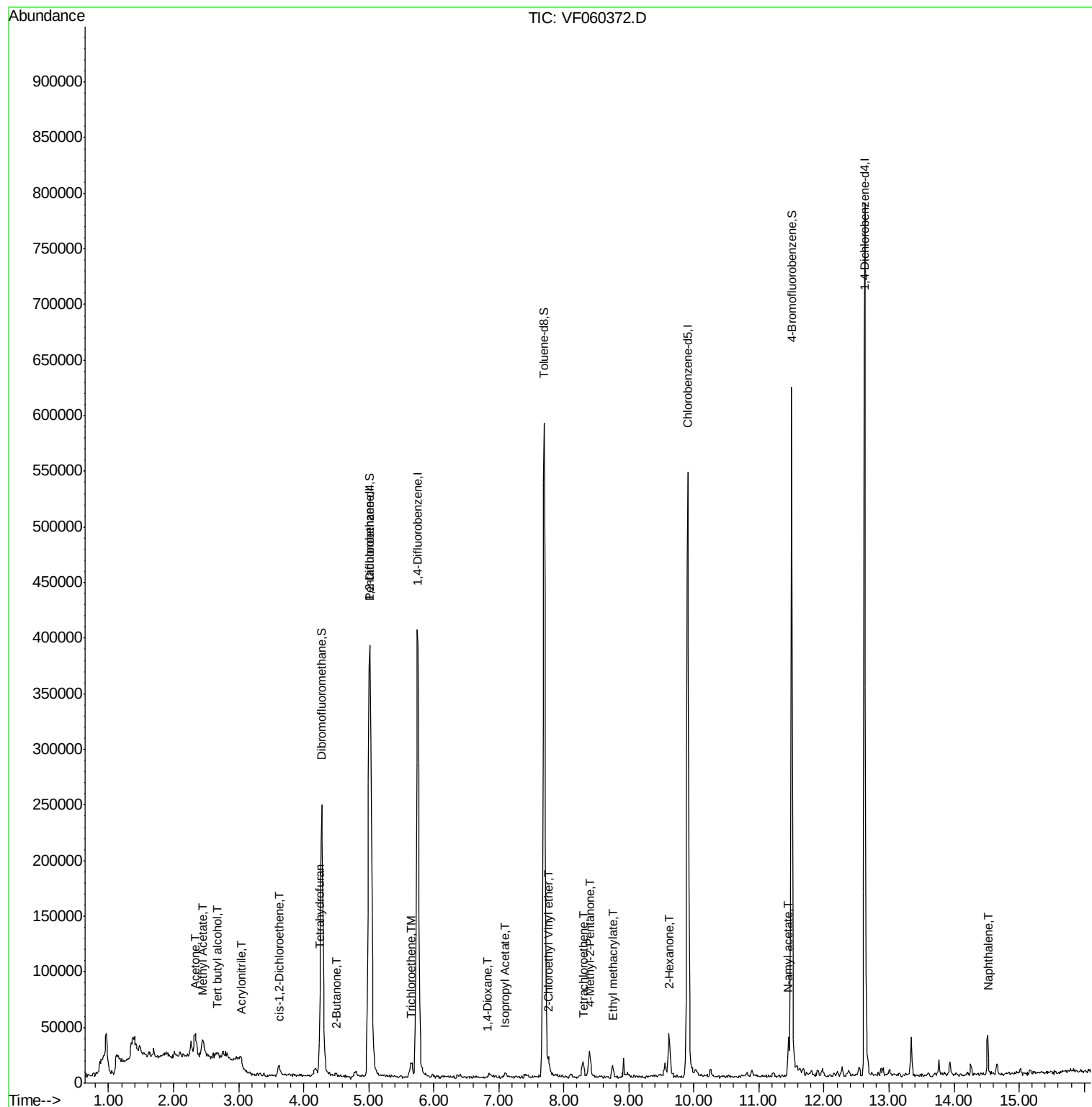
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	246063	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.75	114	425951	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.91	117	367104	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.63	152	192391	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.01	65	221507	66.85	ug/l	0.00
Spiked Amount 50.000			Recovery	=	133.70%	
35) Dibromofluoromethane	4.28	113	213693	56.28	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	112.56%	
50) Toluene-d8	7.70	98	496948	50.26	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	100.52%	
62) 4-Bromofluorobenzene	11.50	95	220809	51.66	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.32%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.00	85	716	Below Cal		90
5) Bromomethane	1.32	94	654	Below Cal	#	63
11) Tert butyl alcohol	2.67	59	3711	3.595 ug/l	#	29
13) Acrolein	2.06	56	170	Below Cal		94
15) Acrylonitrile	3.05	53	1487	3.178 ug/l	#	66
16) Acetone	2.33	43	21008	22.514 ug/l		95
17) Carbon Disulfide	1.86	76	5452	Below Cal	#	87
18) Methyl Acetate	2.44	43	30521	19.634 ug/l		93
20) Methylene Chloride	2.27	84	4510	Below Cal		90
25) 2-Butanone	4.50	43	8442	6.722 ug/l	#	85
27) cis-1,2-Dichloroethene	3.63	96	5195	1.367 ug/l		82
29) Tetrahydrofuran	4.24	42	1428	3.105 ug/l	#	77
43) Isopropyl Acetate	7.11	43	6566	2.426 ug/l	#	94
44) Trichloroethene	5.66	130	5638	1.572 ug/l		89
49) 1,4-Dioxane	6.83	88	90	5.302 ug/l	#	1
51) 4-Methyl-2-Pentanone	8.40	43	23825	11.422 ug/l		97
56) Ethyl methacrylate	8.75	69	7366	2.637 ug/l		89
58) 2-Chloroethyl Vinyl ether	7.77	63	913	3.697 ug/l		100
59) 2-Hexanone	9.62	43	35608	23.975 ug/l		93
64) Tetrachloroethene	8.29	164	3960	1.190 ug/l	#	82
74) N-amyl acetate	11.45	43	20331	5.520 ug/l	#	89
78) n-propylbenzene	11.68	91	4037	Below Cal		85
85) sec-Butylbenzene	12.38	105	3086	Below Cal		100
86) p-Isopropyltoluene	12.53	119	2751	Below Cal		94
89) n-Butylbenzene	12.91	91	4710	Below Cal		87
95) Naphthalene	14.52	128	24058	2.845 ug/l	#	93

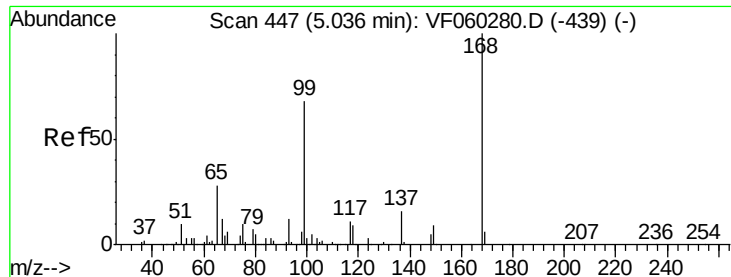
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 446

Delta R.T. -0.01 min

Lab File: VF060372.D

Acq: 28 Sep 2018 17:35

Instrument :

MSVOA_F

ClientSampleId :

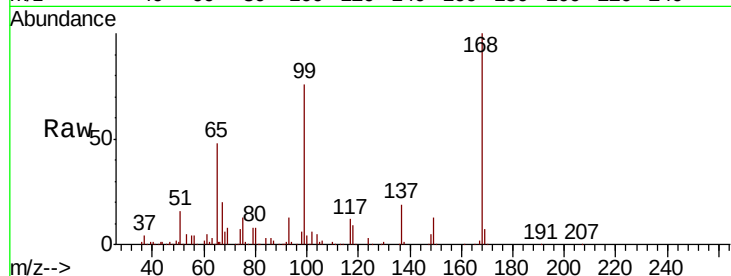
NB-08-092718

Tot Ion:168 Resp: 246063

Ion Ratio Lower Upper

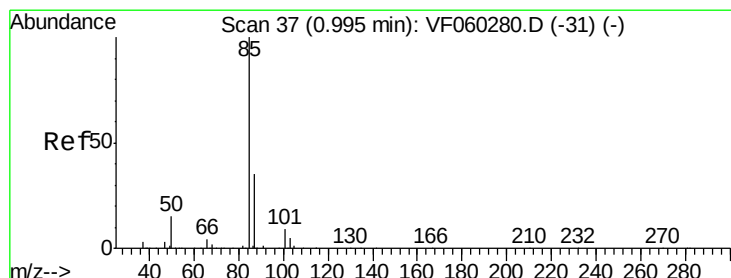
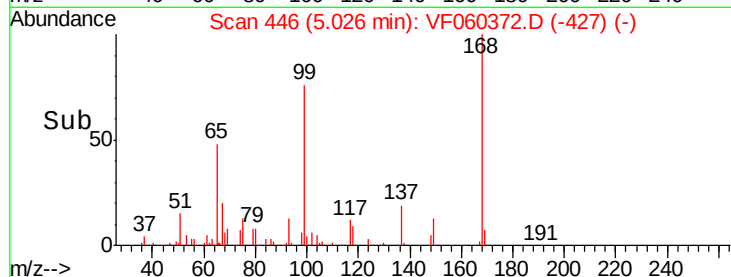
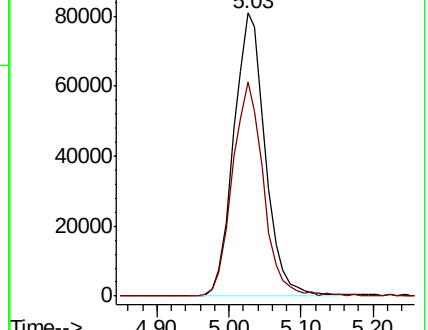
168 100

99 75.7 54.8 82.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.00 min Scan# 38

Delta R.T. 0.01 min

Lab File: VF060372.D

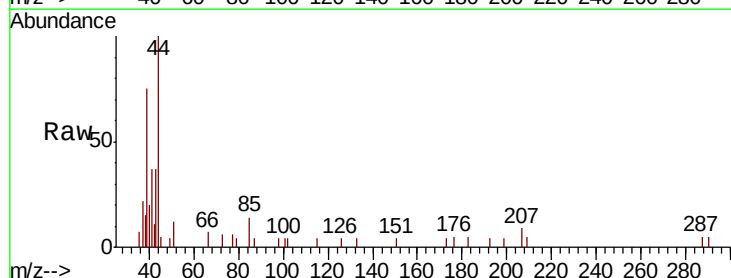
Acq: 28 Sep 2018 17:35

Tgt Ion: 85 Resp: 716

Ion Ratio Lower Upper

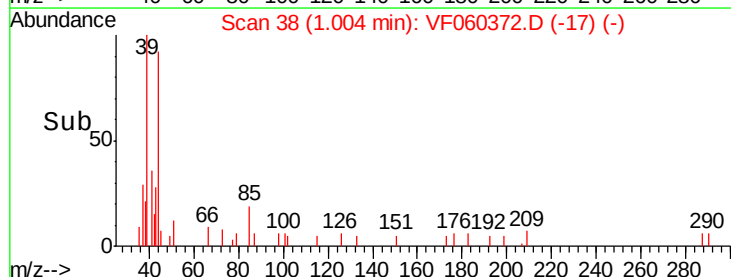
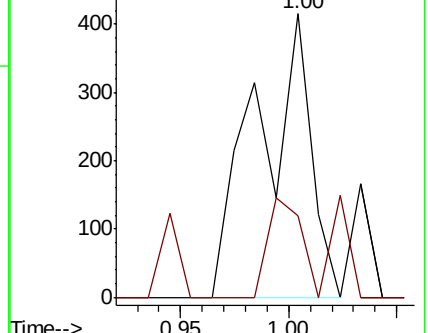
85 100

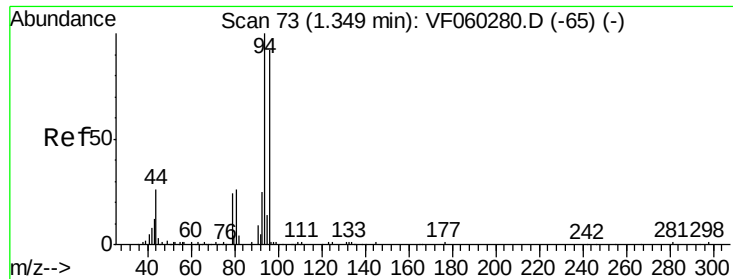
87 28.7 17.3 52.0



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: 1.32 min Scan# 70

Delta R.T. -0.03 min

Lab File: VF060372.D

Acq: 28 Sep 2018 17:35

Instrument :

MSVOA_F

ClientSampleId :

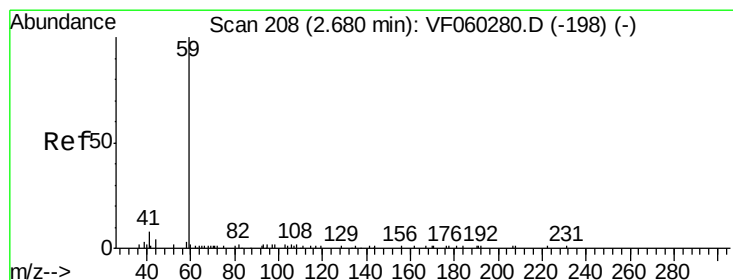
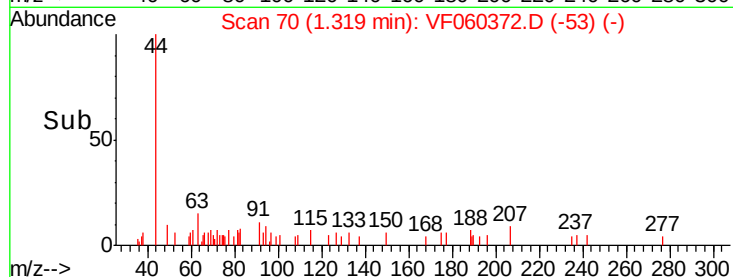
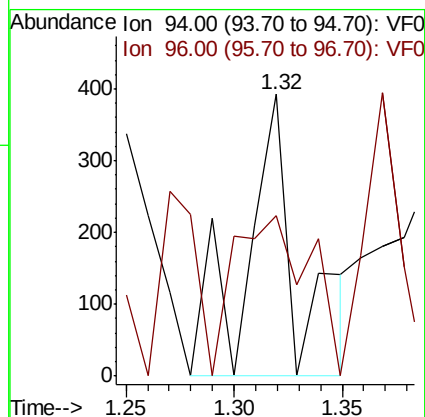
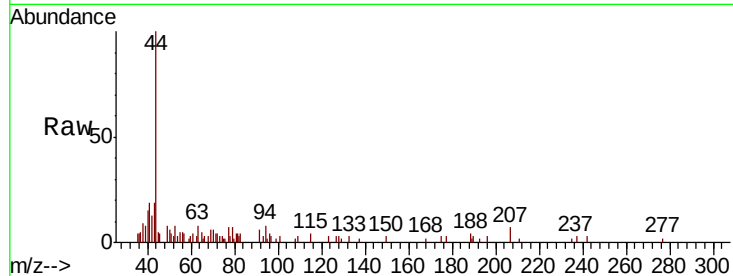
NB-08-092718

Tot Ion: 94 Resp: 654

Ion Ratio Lower Upper

94 100

96 56.9 73.9 110.9#



#11

Tert butyl alcohol

Concen: 3.595 ug/l

RT: 2.67 min Scan# 207

Delta R.T. -0.01 min

Lab File: VF060372.D

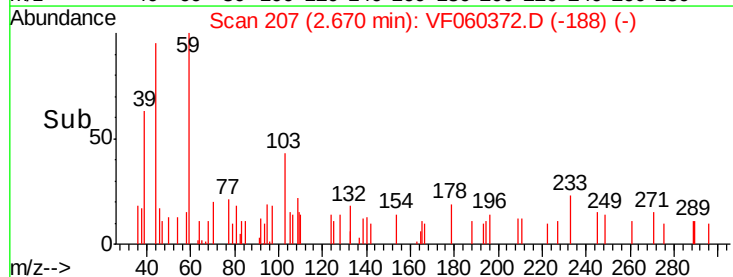
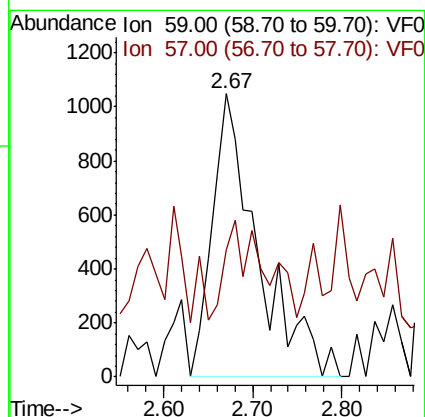
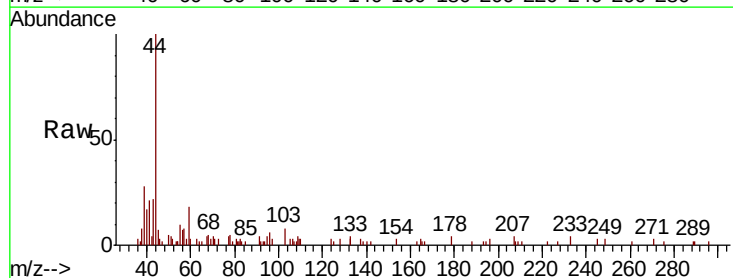
Acq: 28 Sep 2018 17:35

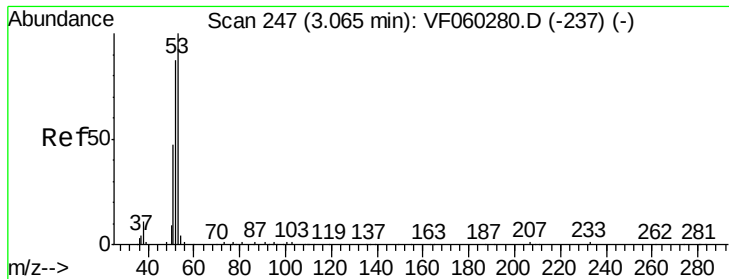
Tgt Ion: 59 Resp: 3711

Ion Ratio Lower Upper

59 100

57 45.1 12.4 18.6#





#15

Acrylonitrile

Concen: 3.178 ug/l

RT: 3.05 min Scan# 246

Delta R.T. -0.01 min

Lab File: VF060372.D

Acq: 28 Sep 2018 17:35

Instrument :

MSVOA_F

ClientSampleId :

NB-08-092718

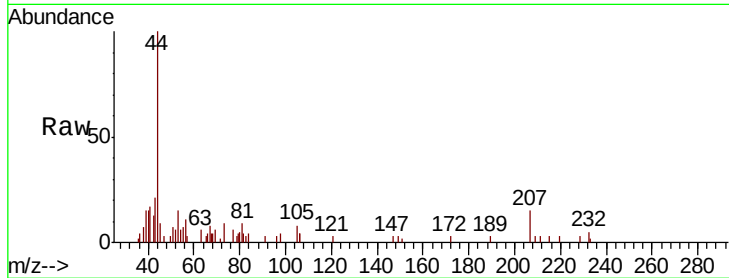
Tot Ion: 53 Resp: 1487

Ion Ratio Lower Upper

53 100

52 39.0 69.5 104.3#

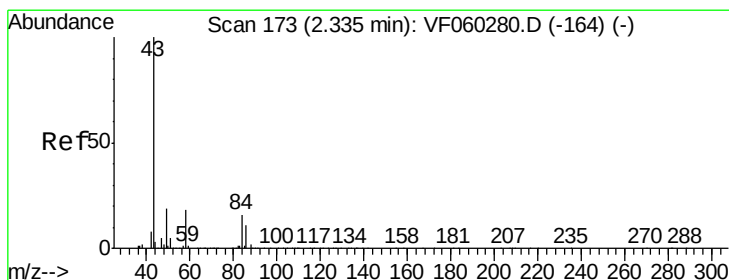
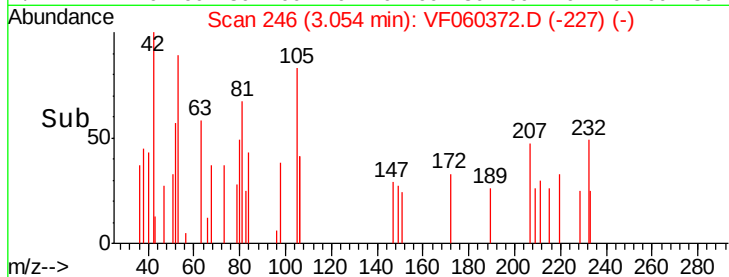
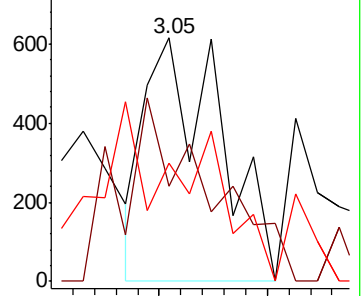
51 48.4 38.1 57.1



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



#16

Acetone

Concen: 22.514 ug/l

RT: 2.33 min Scan# 173

Delta R.T. -0.00 min

Lab File: VF060372.D

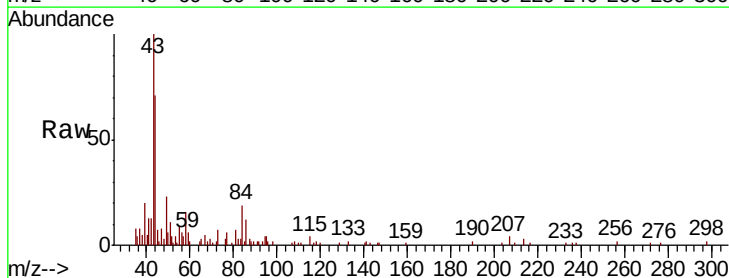
Acq: 28 Sep 2018 17:35

Tgt Ion: 43 Resp: 21008

Ion Ratio Lower Upper

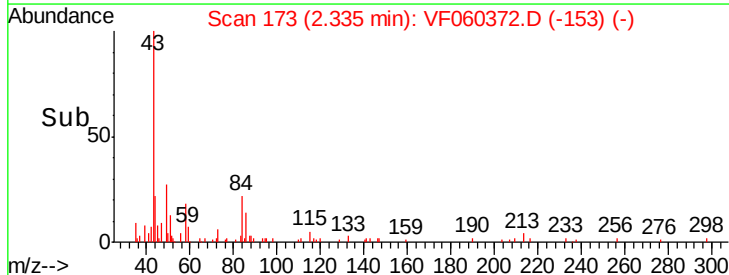
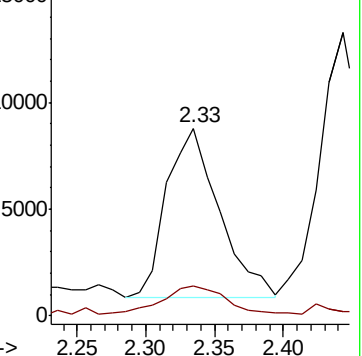
43 100

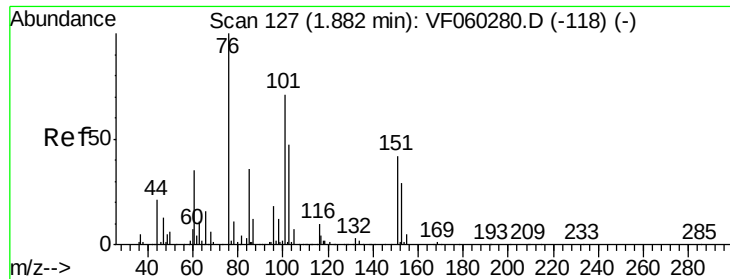
58 15.7 14.5 21.7



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: 1.86 min Scan# 125

Delta R.T. -0.02 min

Lab File: VF060372.D

Acq: 28 Sep 2018 17:35

Instrument :

MSVOA_F

ClientSampleId :

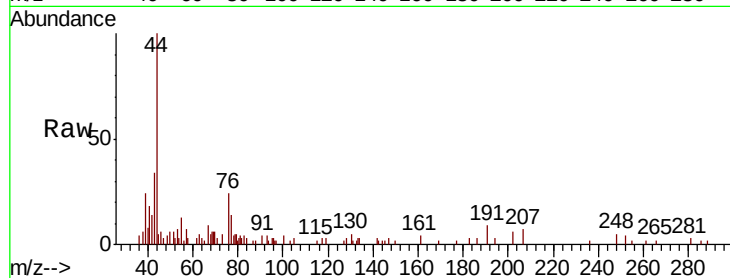
NB-08-092718

Tot Ion: 76 Resp: 5452

Ion Ratio Lower Upper

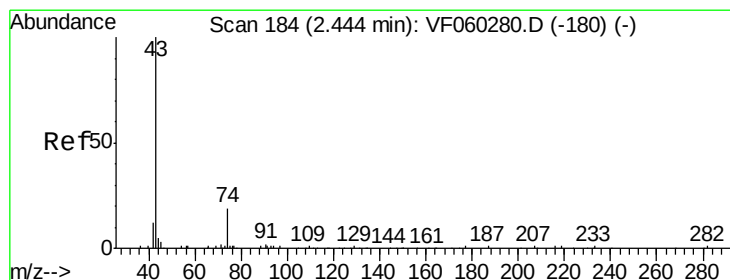
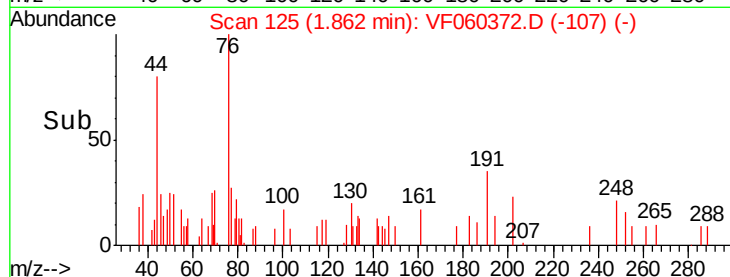
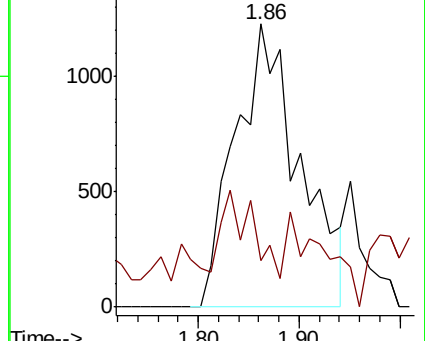
76 100

78 16.6 9.4 14.0#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: 19.634 ug/l

RT: 2.44 min Scan# 184

Delta R.T. -0.00 min

Lab File: VF060372.D

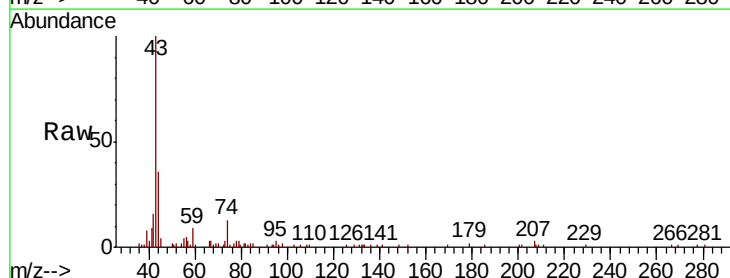
Acq: 28 Sep 2018 17:35

Tgt Ion: 43 Resp: 30521

Ion Ratio Lower Upper

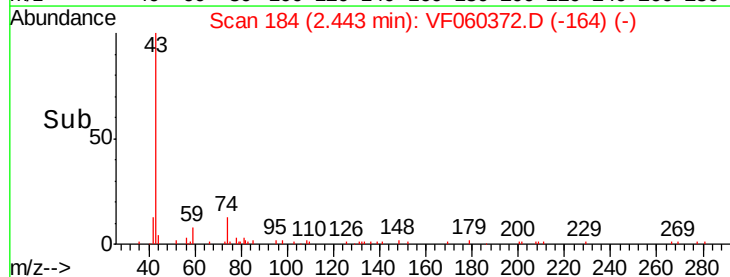
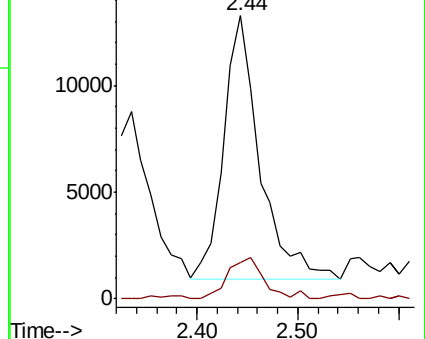
43 100

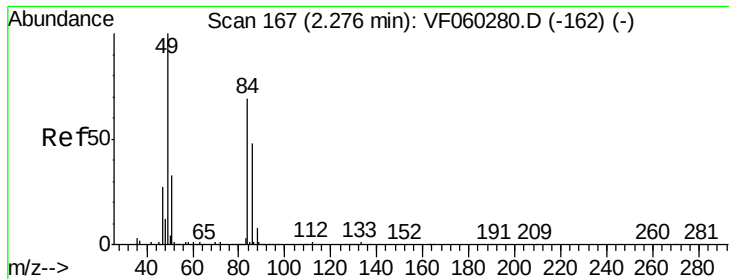
74 12.7 12.7 19.1



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0



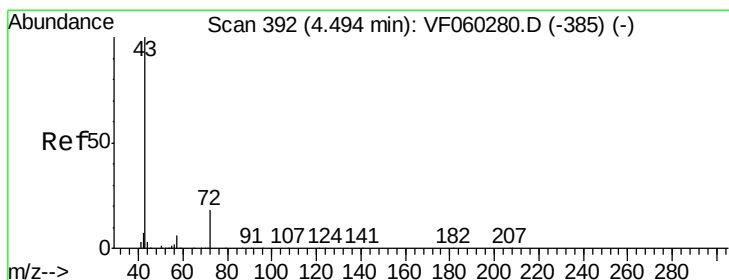
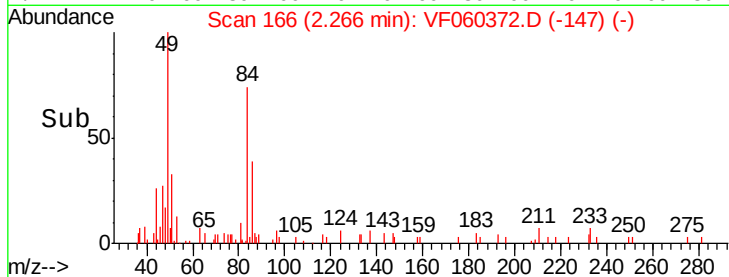
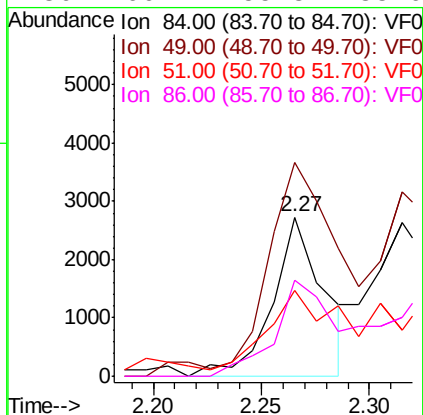
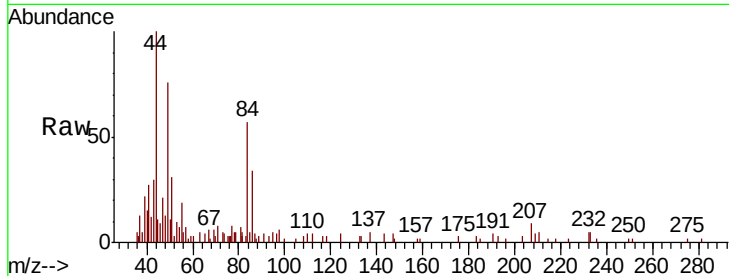


#20

Methylene Chloride
 Concen: Below Cal
 RT: 2.27 min Scan# 166
 Delta R.T. -0.01 min
 Lab File: VF060372.D
 Acq: 28 Sep 2018 17:35

Instrument :
 MSVOA_F
 ClientSampleId :
 NB-08-092718

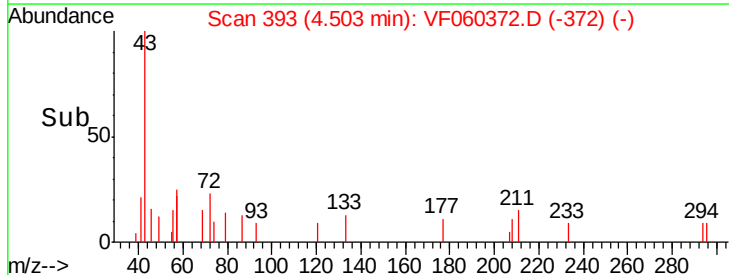
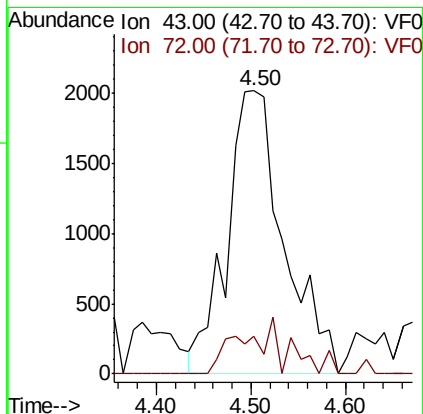
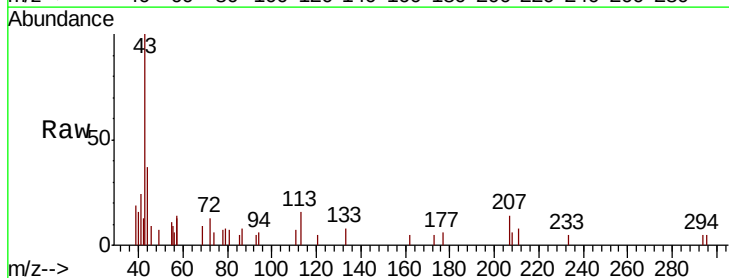
Tot Ion:	84	Resp:	4510
Ion	Ratio	Lower	Upper
84	100		
49	134.5	118.3	177.5
51	53.9	38.7	58.1
86	60.1	55.8	83.6

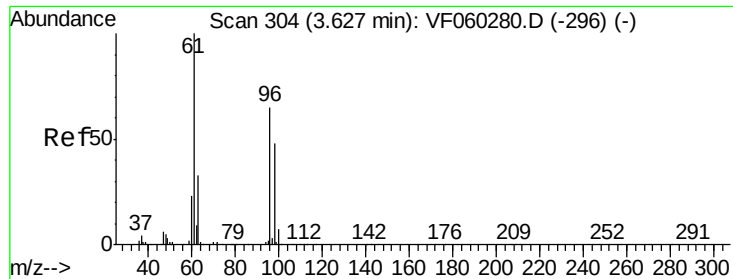


#25

2-Butanone
 Concen: 6.722 ug/l
 RT: 4.50 min Scan# 393
 Delta R.T. 0.01 min
 Lab File: VF060372.D
 Acq: 28 Sep 2018 17:35

Tgt Ion:	43	Resp:	8442
Ion	Ratio	Lower	Upper
43	100		
72	13.2	16.2	24.2#





#27

cis-1,2-Dichloroethene

Concen: 1.367 ug/l

RT: 3.63 min Scan# 304

Delta R.T. -0.00 min

Lab File: VF060372.D

Acq: 28 Sep 2018 17:35

Instrument :

MSVOA_F

ClientSampleId :

NB-08-092718

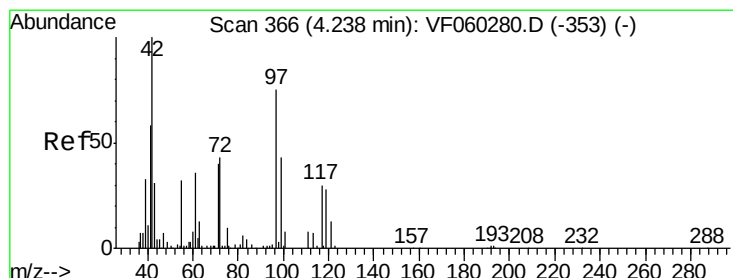
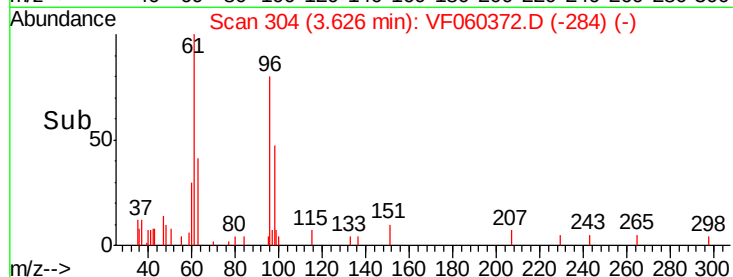
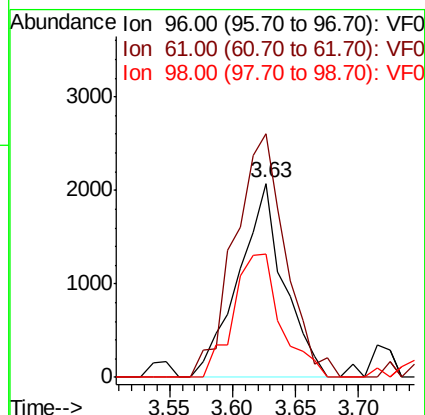
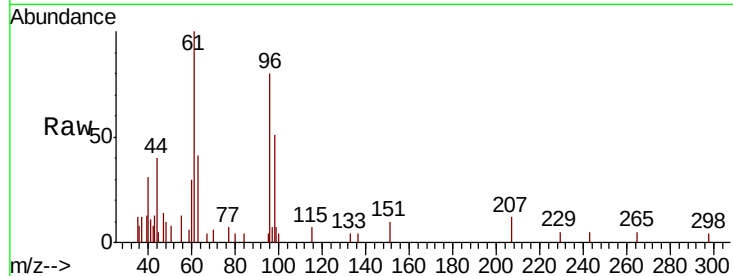
Tot Ion: 96 Resp: 5195

Ion Ratio Lower Upper

96 100

61 125.7 0.0 304.8

98 63.8 0.0 146.4



#29

Tetrahydrofuran

Concen: 3.105 ug/l

RT: 4.24 min Scan# 366

Delta R.T. -0.00 min

Lab File: VF060372.D

Acq: 28 Sep 2018 17:35

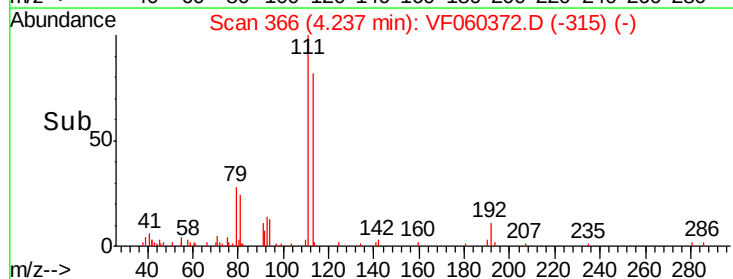
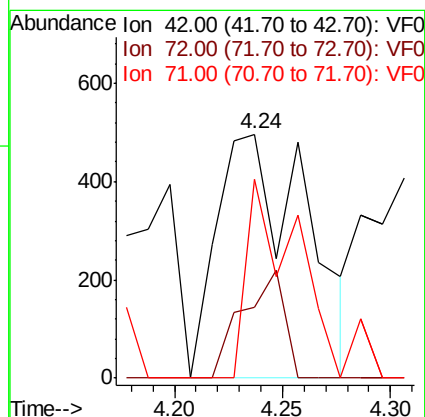
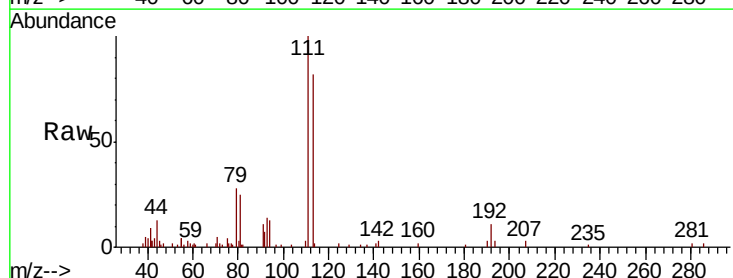
Tgt Ion: 42 Resp: 1428

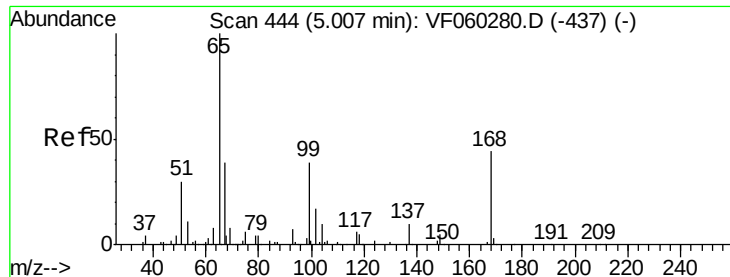
Ion Ratio Lower Upper

42 100

72 20.7 32.6 49.0#

71 49.9 32.7 49.1#

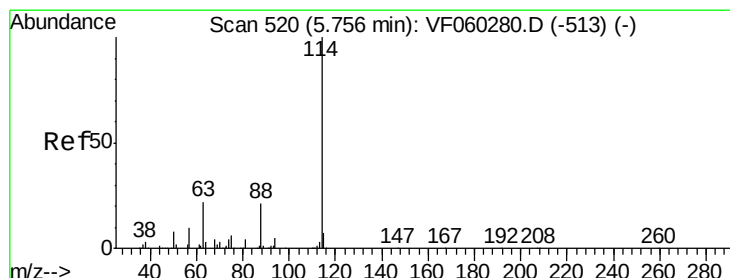
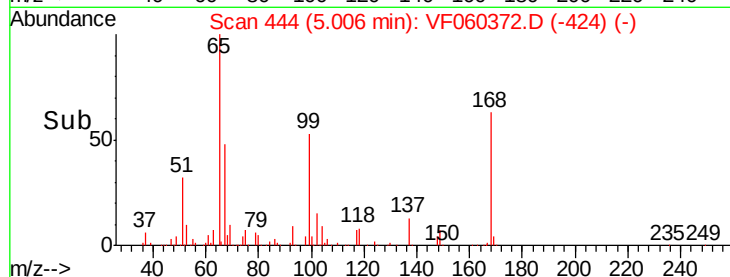
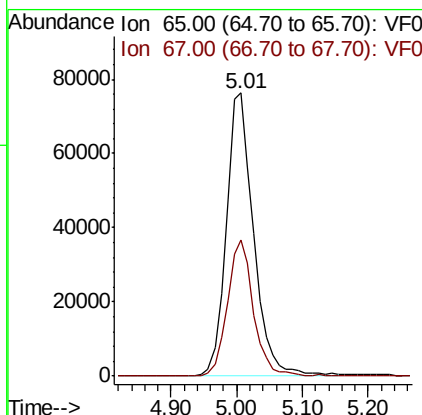
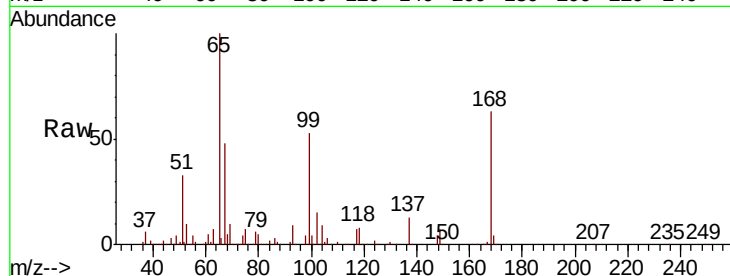




#33
 1,2-Dichloroethane-d4
 Concen: 66.854 ug/l
 RT: 5.01 min Scan# 444
 Delta R.T. -0.00 min
 Lab File: VF060372.D
 Acq: 28 Sep 2018 17:35

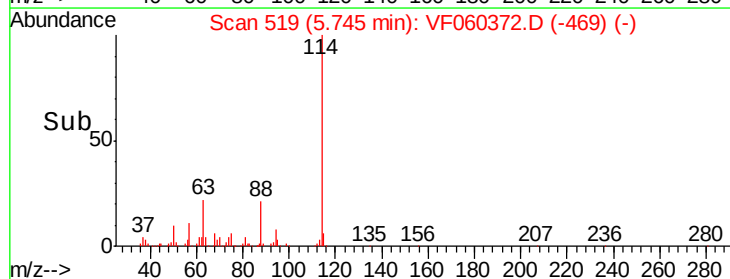
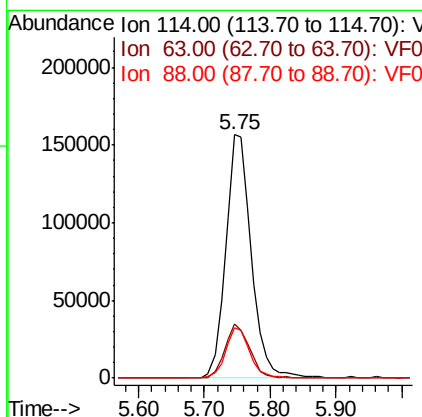
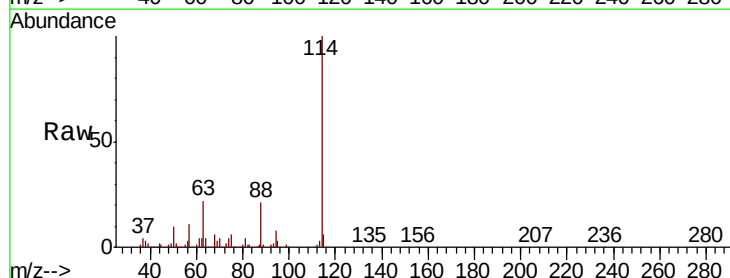
Instrument :
 MSVOA_F
 ClientSampleId :
 NB-08-092718

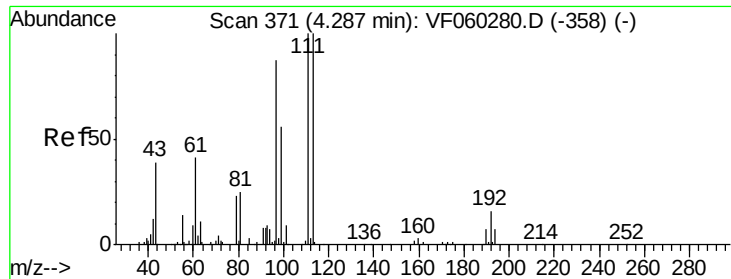
Tot Ion: 65 Resp: 221507
 Ion Ratio Lower Upper
 65 100
 67 47.9 0.0 94.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.75 min Scan# 519
 Delta R.T. -0.01 min
 Lab File: VF060372.D
 Acq: 28 Sep 2018 17:35

Tgt Ion: 114 Resp: 425951
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 43.8
 88 20.5 0.0 41.2





#35

Dibromofluoromethane

Concen: 56.279 ug/l

RT: 4.28 min Scan# 370

Delta R.T. -0.01 min

Lab File: VF060372.D

Acq: 28 Sep 2018 17:35

Instrument :

MSVOA_F

ClientSampleId :

NB-08-092718

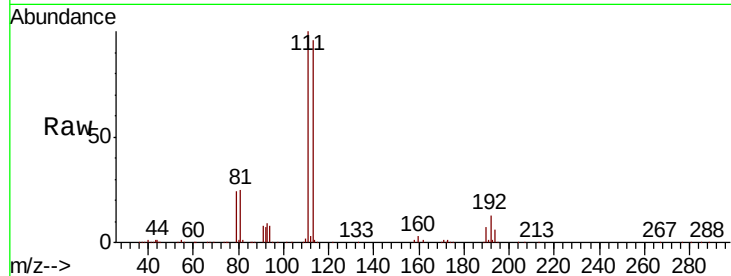
Tot Ion:113 Resp: 213693

Ion Ratio Lower Upper

113 100

111 104.1 79.6 119.4

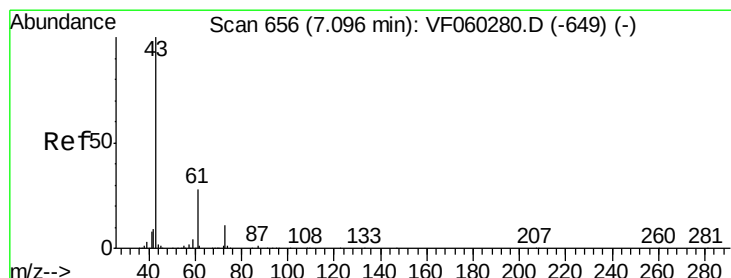
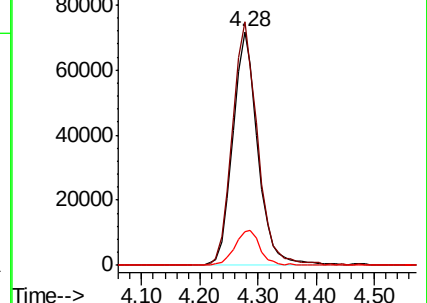
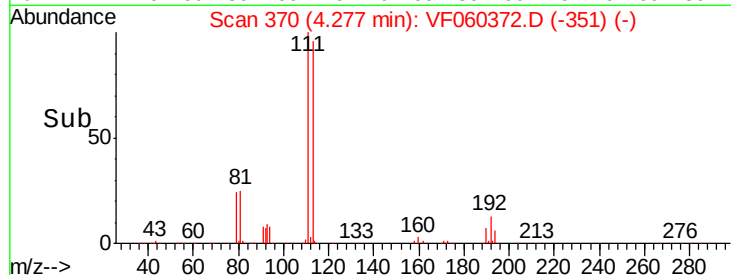
192 14.5 13.0 19.6



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



#43

Isopropyl Acetate

Concen: 2.426 ug/l

RT: 7.11 min Scan# 657

Delta R.T. 0.01 min

Lab File: VF060372.D

Acq: 28 Sep 2018 17:35

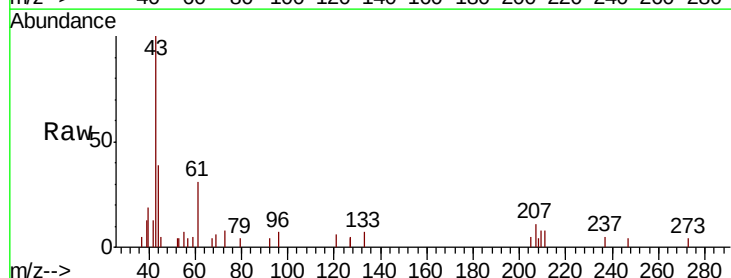
Tgt Ion: 43 Resp: 6566

Ion Ratio Lower Upper

43 100

61 31.1 22.4 33.6

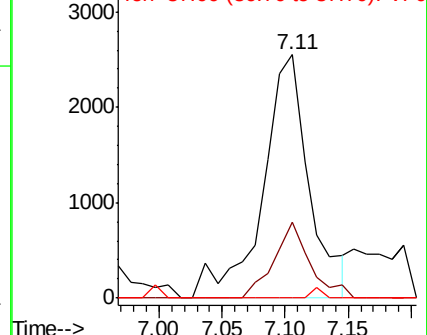
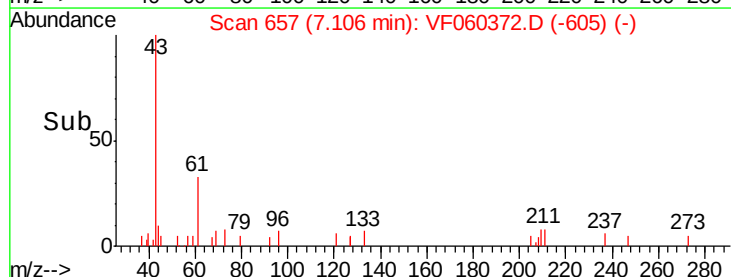
87 0.0 0.6 0.8#

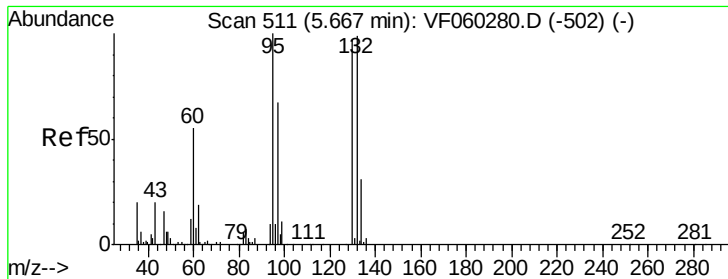


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#44

Trichloroethene

Concen: 1.572 ug/l

RT: 5.66 min Scan# 510

Delta R.T. -0.01 min

Lab File: VF060372.D

Acq: 28 Sep 2018 17:35

Instrument :

MSVOA_F

ClientSampleId :

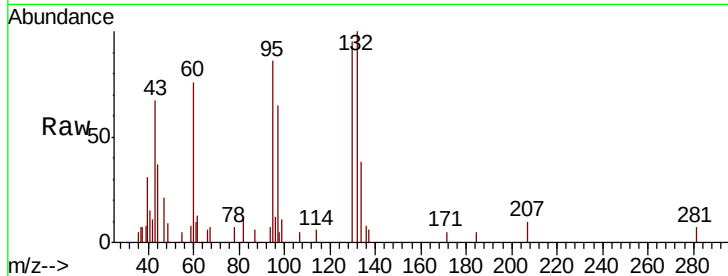
NB-08-092718

Tot Ion:130 Resp: 5638

Ion Ratio Lower Upper

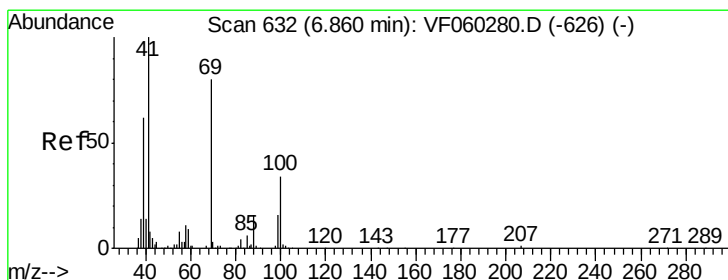
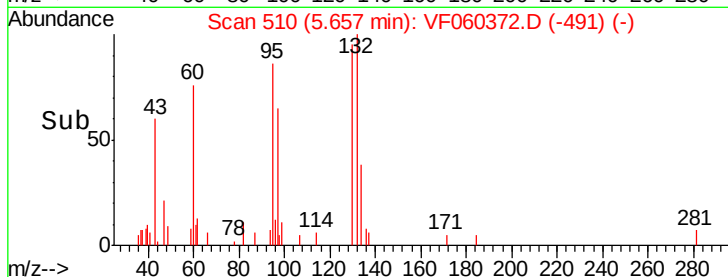
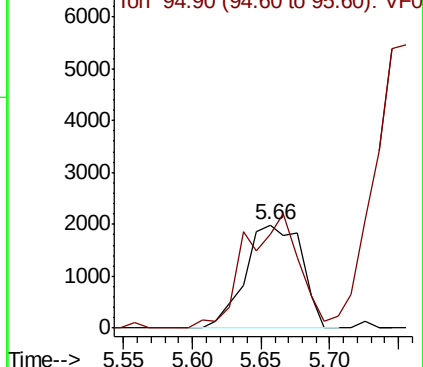
130 100

95 91.1 0.0 205.6



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0



#49

1,4-Dioxane

Concen: 5.302 ug/l

RT: 6.83 min Scan# 629

Delta R.T. -0.03 min

Lab File: VF060372.D

Acq: 28 Sep 2018 17:35

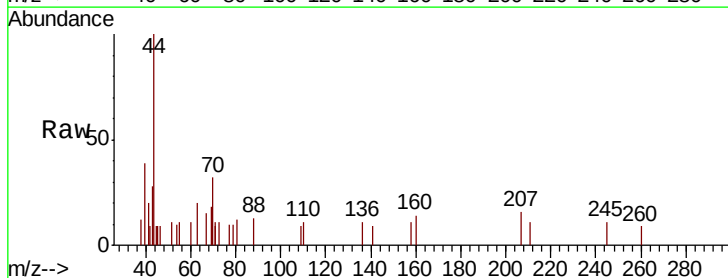
Tgt Ion: 88 Resp: 90

Ion Ratio Lower Upper

88 100

43 219.0 40.2 60.4#

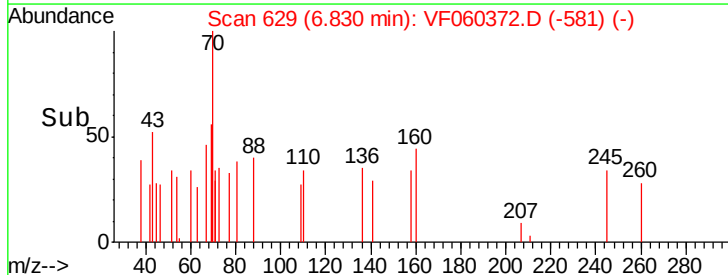
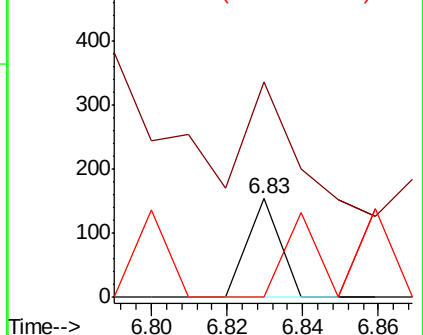
58 0.0 56.7 85.1#

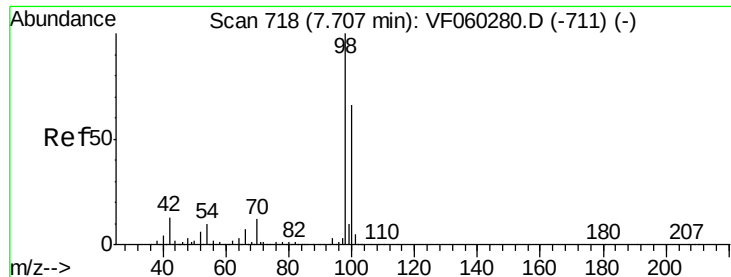


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 50.256 ug/l

RT: 7.70 min Scan# 717

Delta R.T. -0.01 min

Lab File: VF060372.D

Acq: 28 Sep 2018 17:35

Instrument :

MSVOA_F

ClientSampleId :

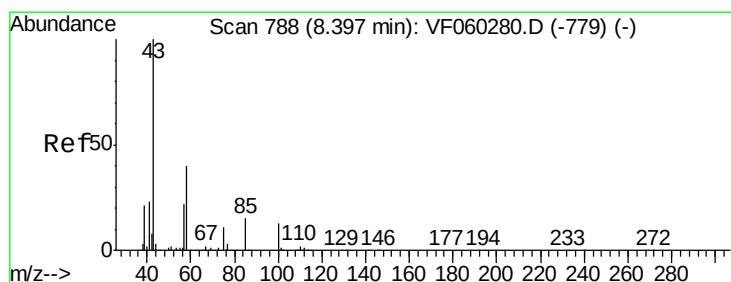
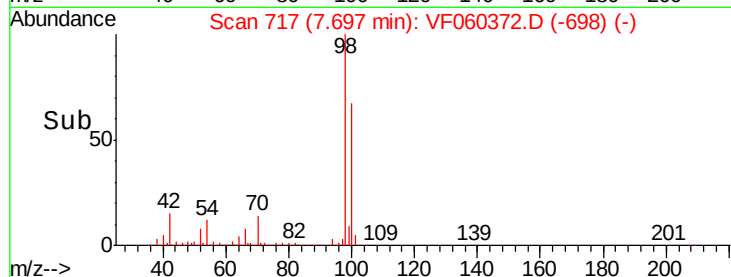
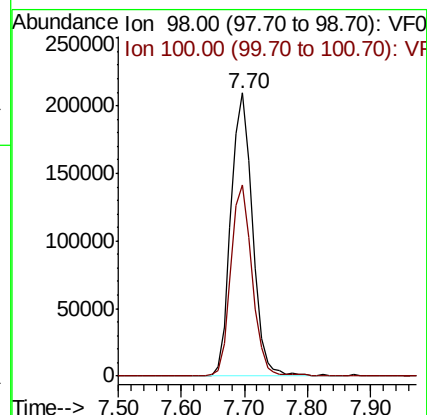
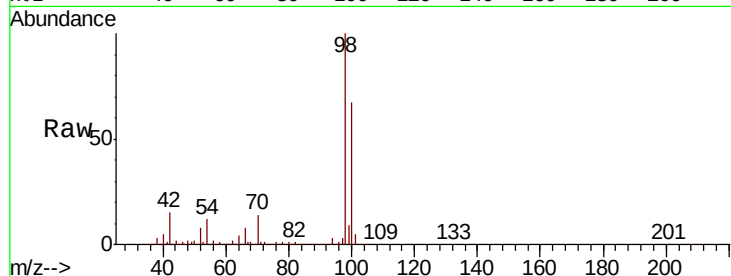
NB-08-092718

Tot Ion: 98 Resp: 496948

Ion Ratio Lower Upper

98 100

100 67.4 53.0 79.6



#51

4-Methyl-2-Pentanone

Concen: 11.422 ug/l

RT: 8.40 min Scan# 788

Delta R.T. -0.00 min

Lab File: VF060372.D

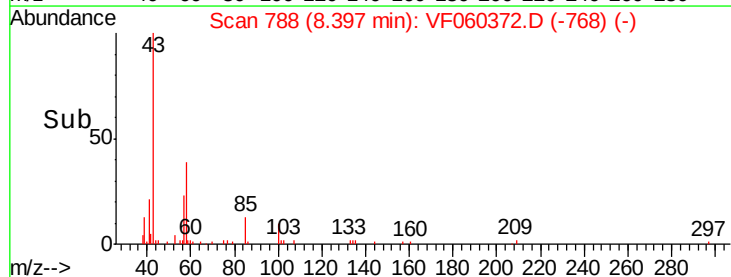
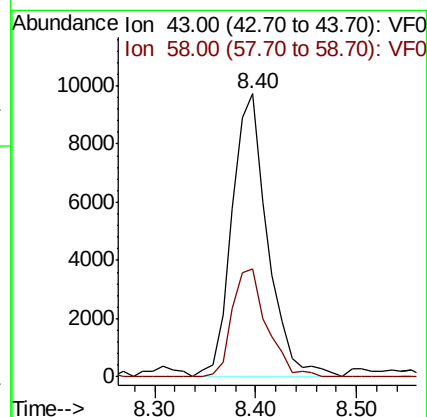
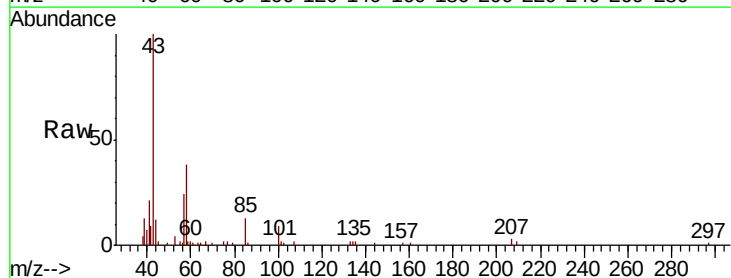
Acq: 28 Sep 2018 17:35

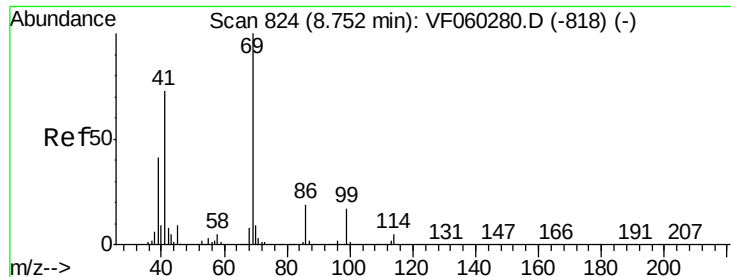
Tgt Ion: 43 Resp: 23825

Ion Ratio Lower Upper

43 100

58 38.1 31.8 47.8

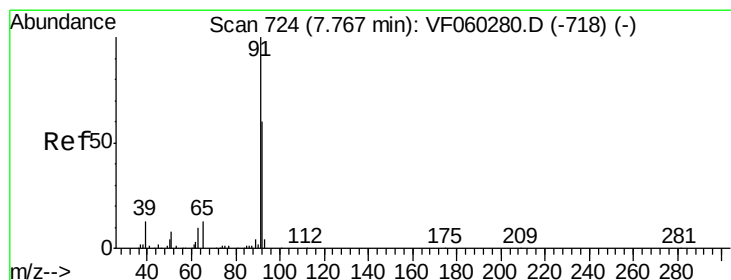
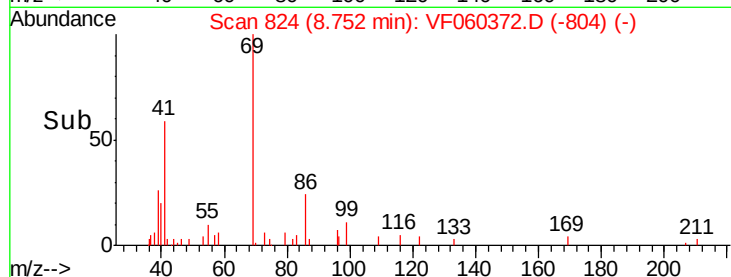
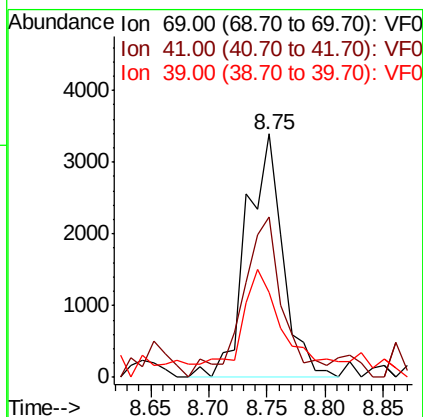
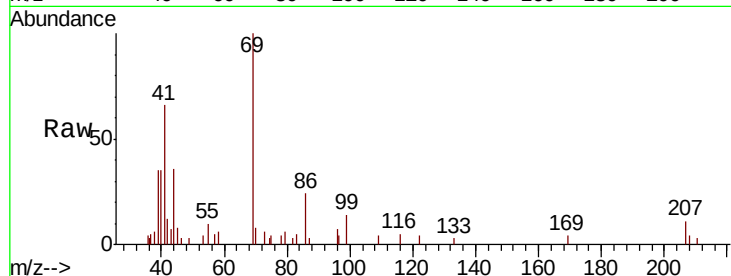




#56
Ethyl methacrylate
Concen: 2.637 ug/l
RT: 8.75 min Scan# 824
Delta R.T. -0.00 min
Lab File: VF060372.D
Acq: 28 Sep 2018 17:35

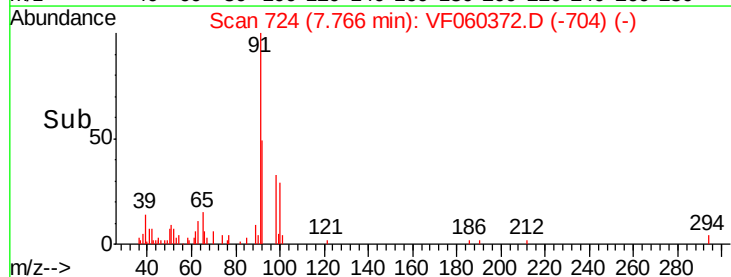
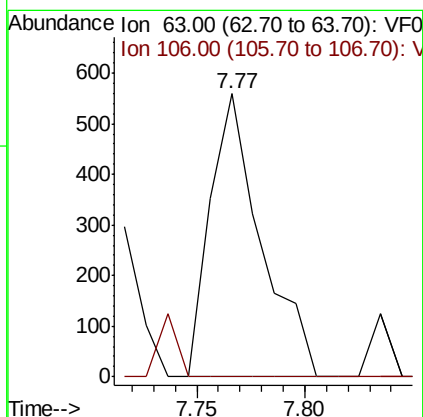
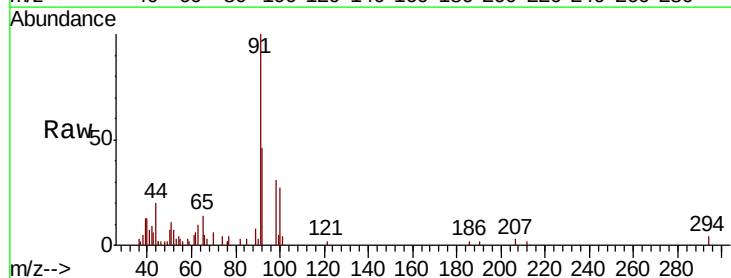
Instrument :
MSVOA_F
ClientSampleId :
NB-08-092718

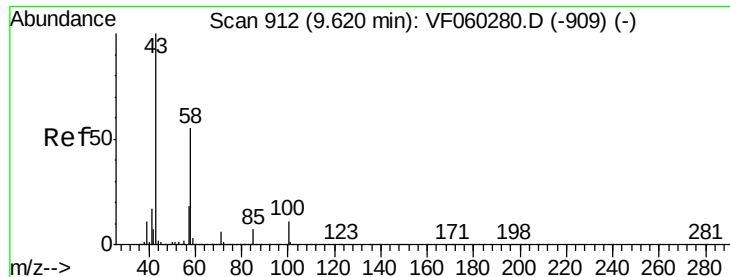
Tot Ion: 69 Resp: 7366
Ion Ratio Lower Upper
69 100
41 65.7 59.4 89.2
39 34.8 33.5 50.3



#58
2-Chloroethyl Vinyl ether
Concen: 3.697 ug/l
RT: 7.77 min Scan# 724
Delta R.T. -0.00 min
Lab File: VF060372.D
Acq: 28 Sep 2018 17:35

Tgt Ion: 63 Resp: 913
Ion Ratio Lower Upper
63 100
106 0.0 0.0 0.0

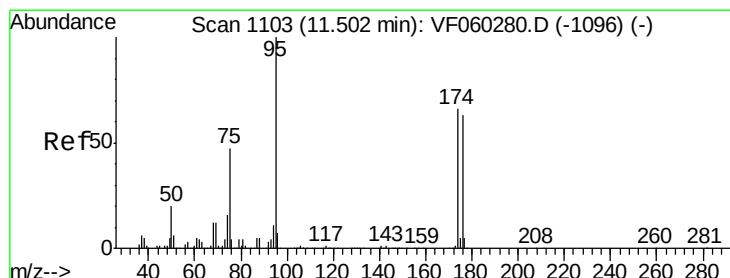
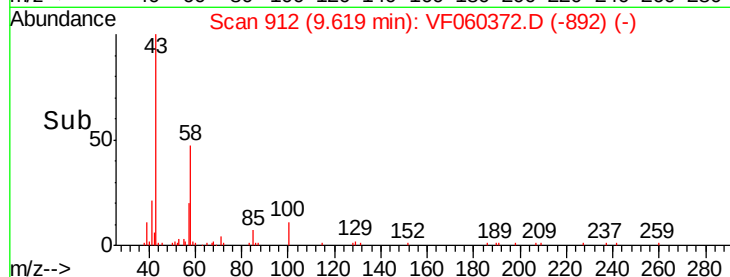
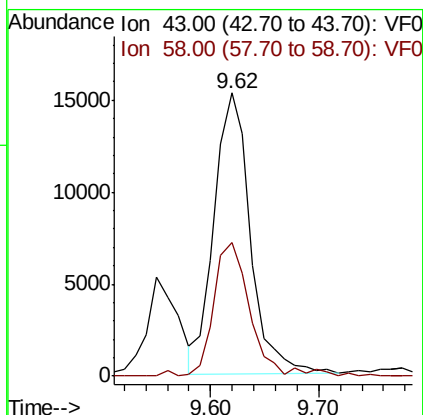
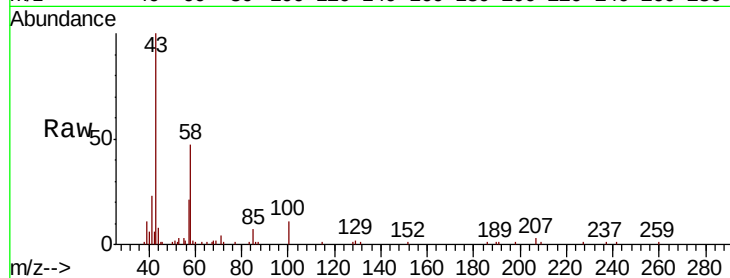




#59
2-Hexanone
Concen: 23.975 ug/l
RT: 9.62 min Scan# 912
Delta R.T. -0.00 min
Lab File: VF060372.D
Acq: 28 Sep 2018 17:35

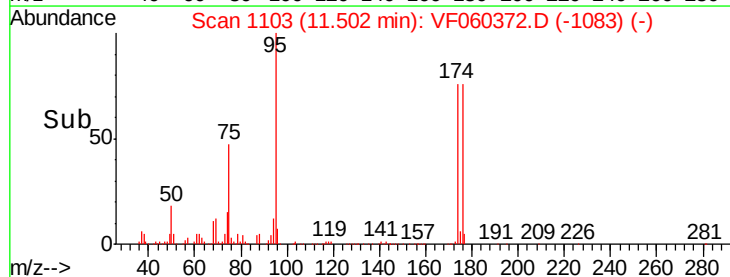
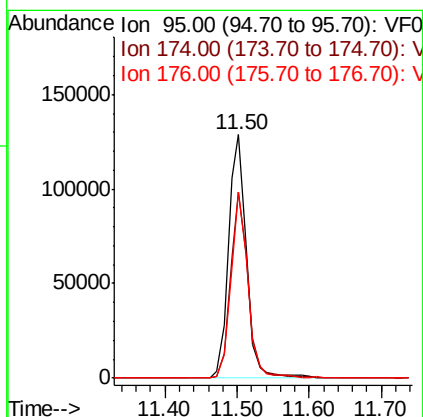
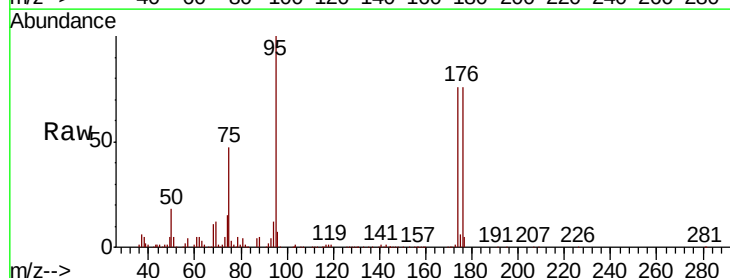
Instrument :
MSVOA_F
ClientSampleId :
NB-08-092718

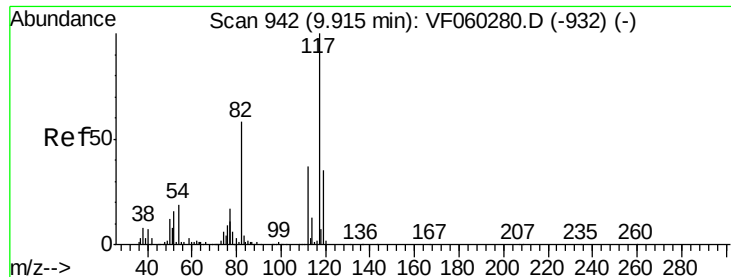
Tot Ion: 43 Resp: 35608
Ion Ratio Lower Upper
43 100
58 47.0 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 51.658 ug/l
RT: 11.50 min Scan# 1103
Delta R.T. -0.00 min
Lab File: VF060372.D
Acq: 28 Sep 2018 17:35

Tgt Ion: 95 Resp: 220809
Ion Ratio Lower Upper
95 100
174 76.3 0.0 131.2
176 76.2 0.0 126.6

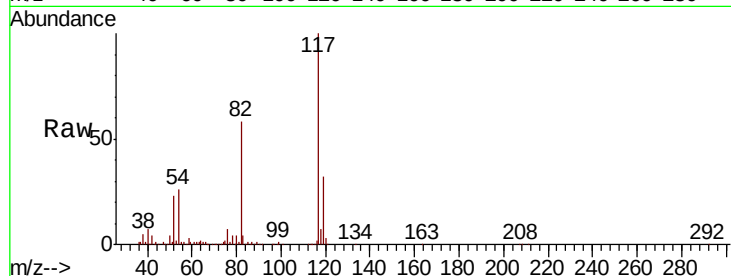




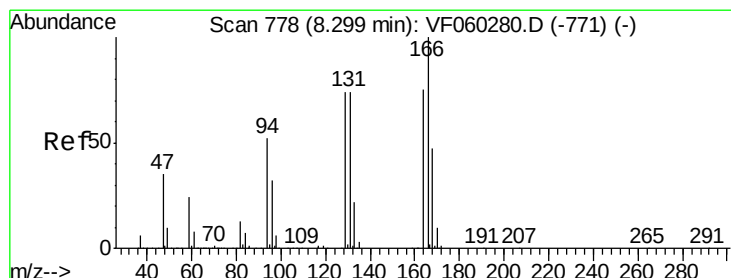
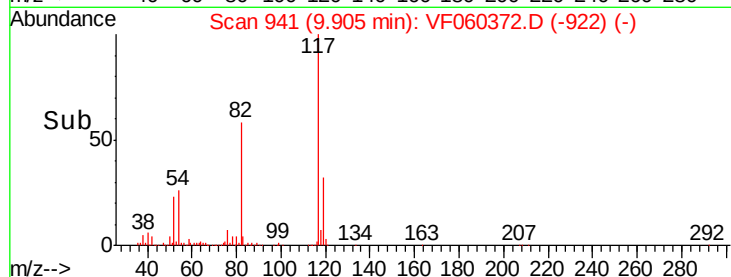
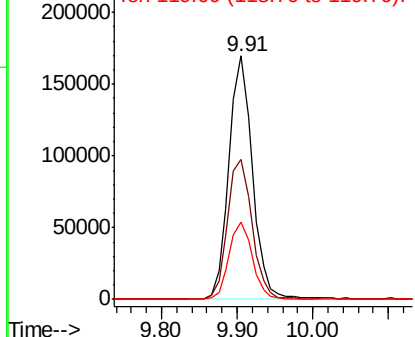
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.01 min
Lab File: VF060372.D
Acq: 28 Sep 2018 17:35

Instrument :
MSVOA_F
ClientSampleId :
NB-08-092718

Tot Ion:117 Resp: 367104
Ion Ratio Lower Upper
117 100
82 57.6 46.2 69.2
119 32.0 27.8 41.6

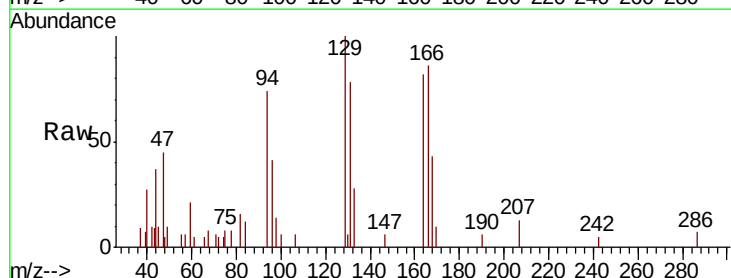


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

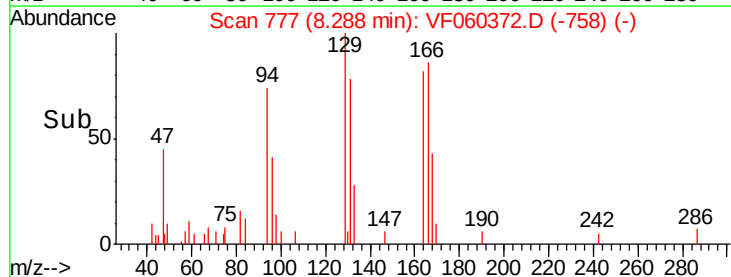
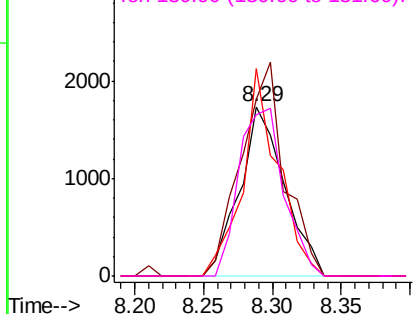


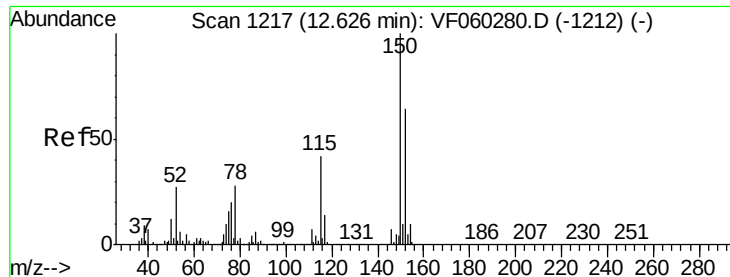
#64
Tetrachloroethene
Concen: 1.190 ug/l
RT: 8.29 min Scan# 777
Delta R.T. -0.01 min
Lab File: VF060372.D
Acq: 28 Sep 2018 17:35

Tgt Ion:164 Resp: 3960
Ion Ratio Lower Upper
164 100
166 104.7 106.8 160.2#
129 122.3 78.8 118.2#
131 94.9 78.7 118.1



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V



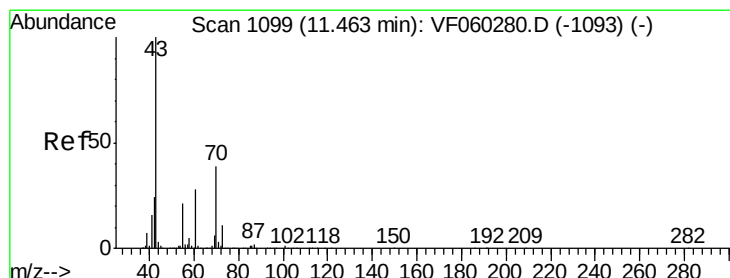
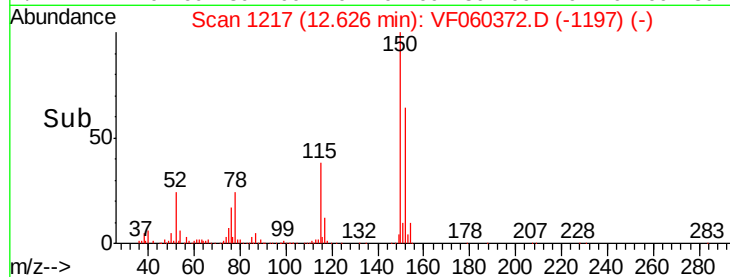
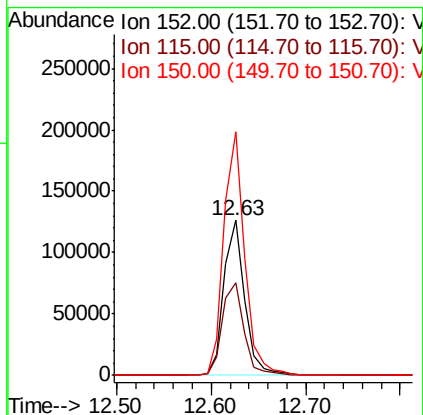
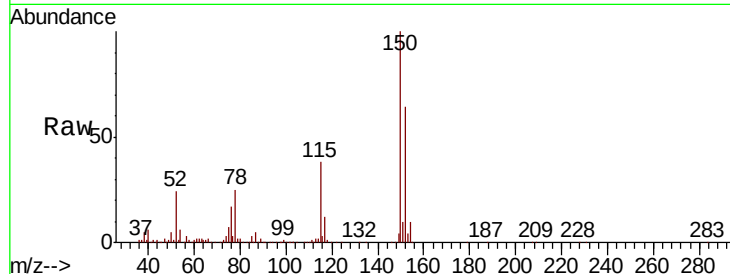


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1217
Delta R.T. -0.00 min
Lab File: VF060372.D
Acq: 28 Sep 2018 17:35

Instrument :
MSVOA_F
ClientSampleId :
NB-08-092718

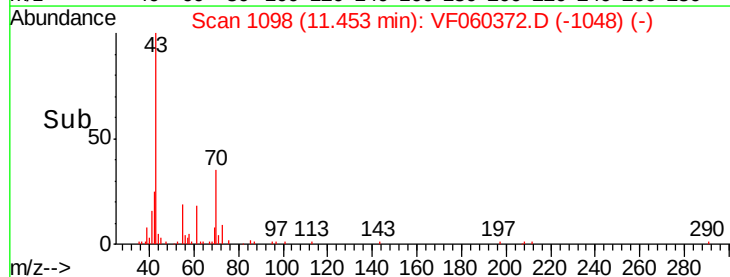
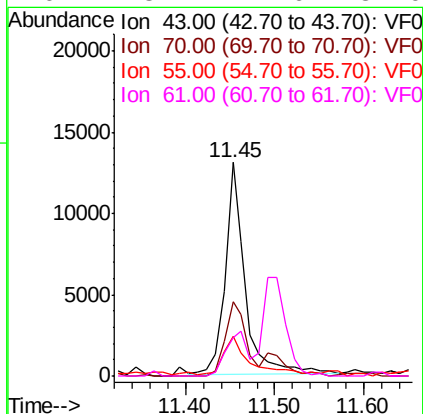
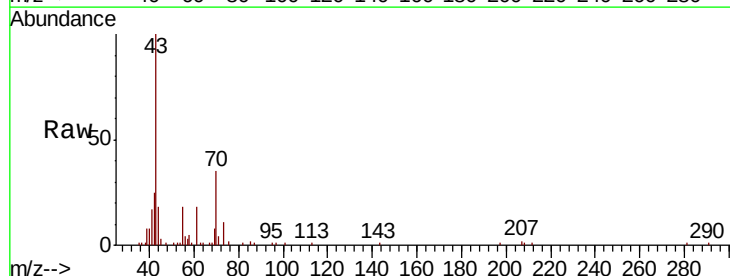
Tot Ion	Ratio	Lower	Upper
152	100		
115	59.4	32.6	97.8
150	157.1	0.0	314.2

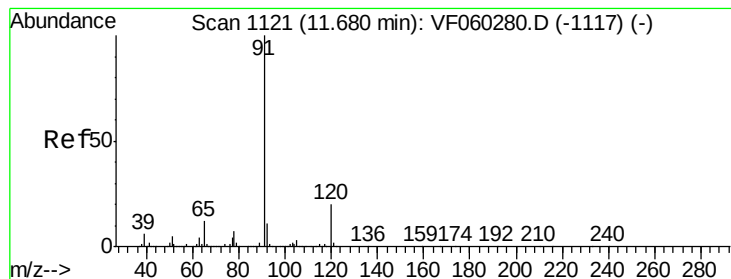


#74

N-amyl acetate
Concen: 5.520 ug/l
RT: 11.45 min Scan# 1098
Delta R.T. -0.01 min
Lab File: VF060372.D
Acq: 28 Sep 2018 17:35

Tgt Ion	Ratio	Lower	Upper
43	100		
70	34.8	31.4	47.2
55	18.5	16.8	25.2
61	18.1	22.6	34.0#





#78

n-propylbenzene

Concen: Below Cal

RT: 11.68 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VF060372.D

Acq: 28 Sep 2018 17:35

Instrument :

MSVOA_F

ClientSampleId :

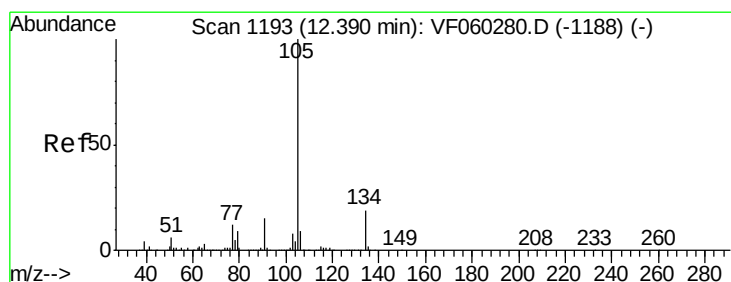
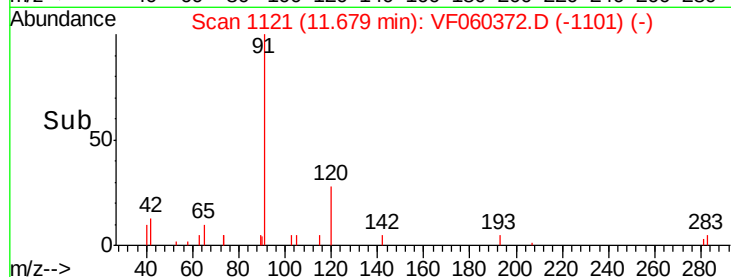
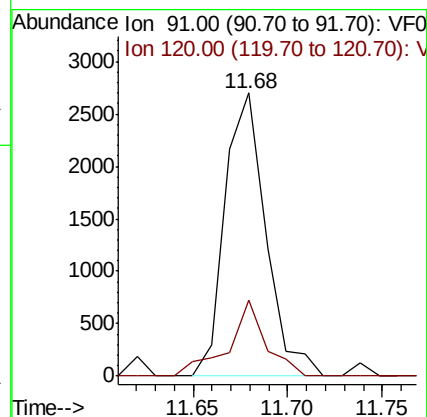
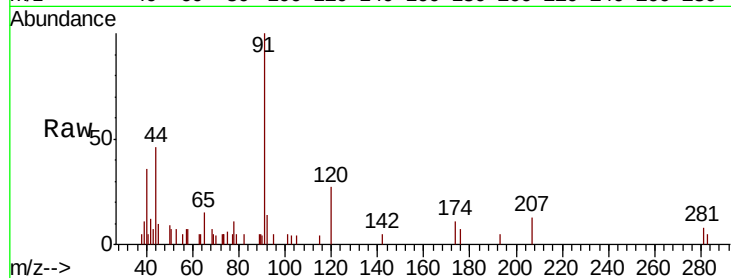
NB-08-092718

Tot Ion: 91 Resp: 4037

Ion Ratio Lower Upper

91 100

120 26.9 10.0 29.8



#85

sec-Butylbenzene

Concen: Below Cal

RT: 12.38 min Scan# 1192

Delta R.T. -0.01 min

Lab File: VF060372.D

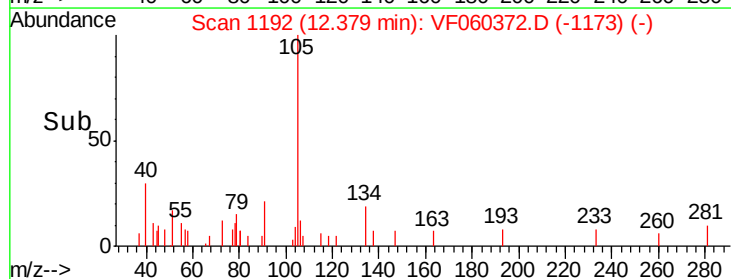
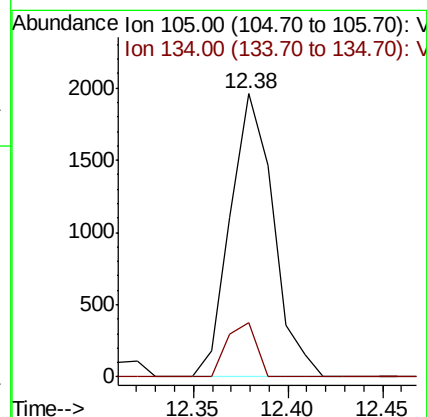
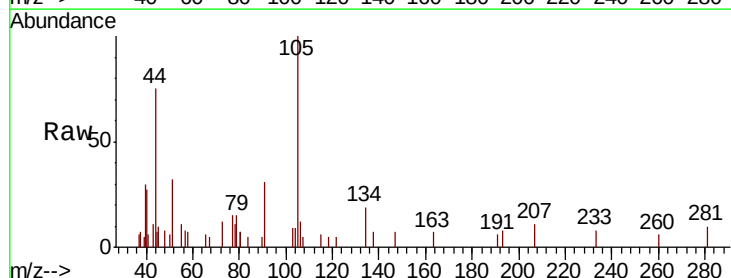
Acq: 28 Sep 2018 17:35

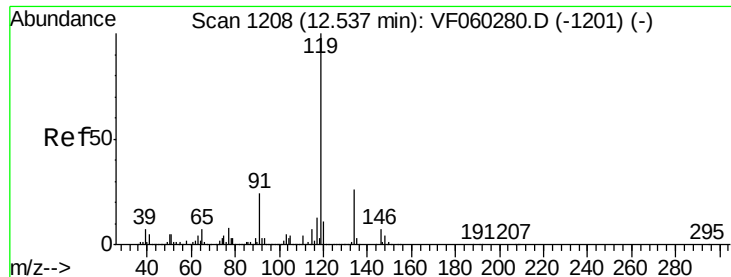
Tgt Ion: 105 Resp: 3086

Ion Ratio Lower Upper

105 100

134 19.1 9.6 28.6

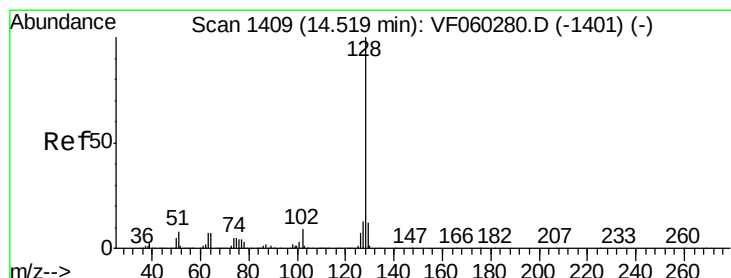
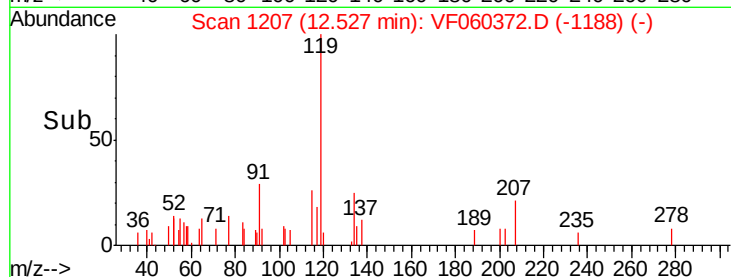
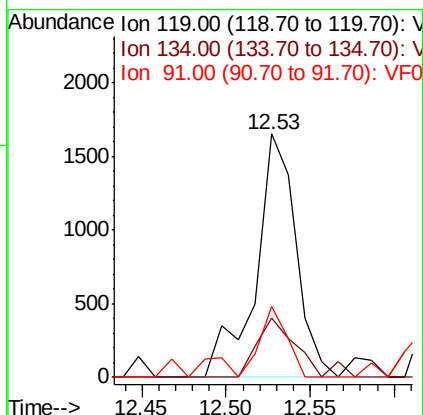
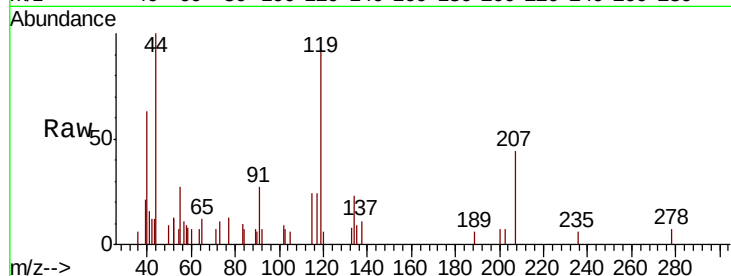




#86
p-Isopropyltoluene
Concen: Below Cal
RT: 12.53 min Scan# 1207
Delta R.T. -0.01 min
Lab File: VF060372.D
Acq: 28 Sep 2018 17:35

Instrument :
MSVOA_F
ClientSampleId :
NB-08-092718

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.5	12.9	38.7
91	29.1	11.9	35.7



#95
Naphthalene
Concen: 2.845 ug/l
RT: 14.52 min Scan# 1409
Delta R.T. -0.00 min
Lab File: VF060372.D
Acq: 28 Sep 2018 17:35

Tgt Ion	Ratio	Lower	Upper
128	100		
127	9.8	10.1	15.1#
129	9.8	9.8	14.8#

