

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110518\
 Data File : VF060601.D
 Acq On : 6 Nov 2018 8:09
 Operator : VA/AP
 Sample : J5794-03
 Misc : 5.13/5mL/MSVOA-F/SOIL
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 06 07:44:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 03 05:29:31 2018
 Response via : Initial Calibration

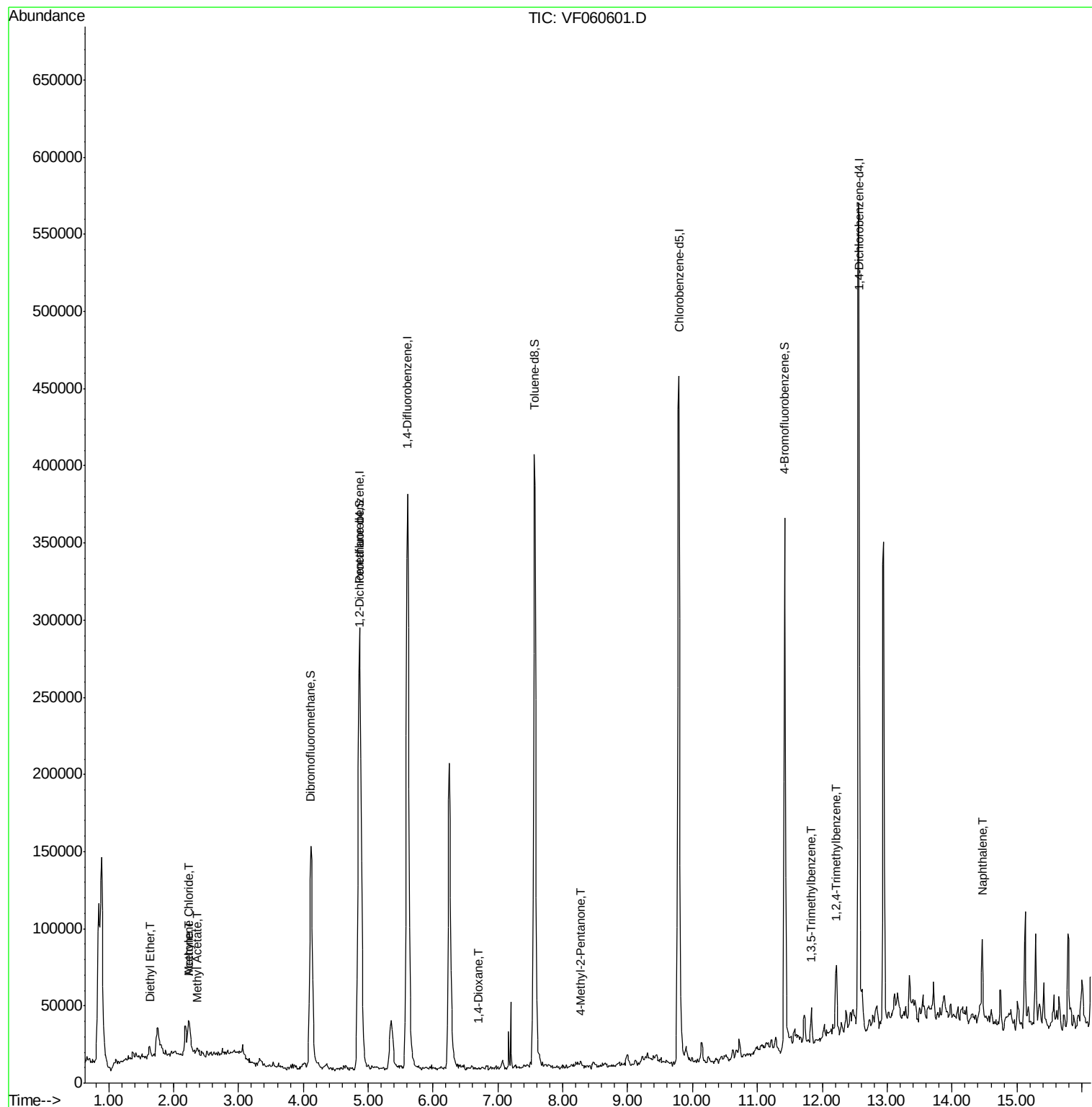
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	221998	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	434713	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	352484	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	144808	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.85	65	113692	50.69	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.38%	
35) Dibromofluoromethane	4.12	113	142002	42.28	ug/l	0.00
Spiked Amount 50.000			Recovery	=	84.56%	
50) Toluene-d8	7.56	98	345277	34.70	ug/l	0.00
Spiked Amount 50.000			Recovery	=	69.40%	
62) 4-Bromofluorobenzene	11.42	95	136558	31.38	ug/l	0.00
Spiked Amount 50.000			Recovery	=	62.76%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.93	85	249	Below Cal	#	41
6) Chloroethane	1.35	64	231	Below Cal	#	1
8) Diethyl Ether	1.63	74	2414	3.887	ug/l	86
11) Tert butyl alcohol	2.57	59	476	Below Cal	#	1
13) Acrolein	2.00	56	1463	Below Cal	#	23
16) Acetone	2.23	43	14422	27.287	ug/l	98
18) Methyl Acetate	2.35	43	5345	6.927	ug/l	98
20) Methylene Chloride	2.24	84	10752	1.568	ug/l	91
25) 2-Butanone	4.34	43	5352	Below Cal	#	73
29) Tetrahydrofuran	4.09	42	1946	Below Cal	#	64
49) 1,4-Dioxane	6.69	88	67	3.506	ug/l #	1
51) 4-Methyl-2-Pentanone	8.28	43	3756	1.922	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.64	63	367	Below Cal		100
59) 2-Hexanone	9.51	43	2936	Below Cal	#	57
74) N-amyl acetate	11.39	43	1278	Below Cal	#	46
80) 1,3,5-Trimethylbenzene	11.83	105	12144	1.305	ug/l	94
84) 1,2,4-Trimethylbenzene	12.22	105	19710	2.162	ug/l	97
89) n-Butylbenzene	12.85	91	3251	Below Cal	#	53
95) Naphthalene	14.47	128	12537	2.032	ug/l #	91

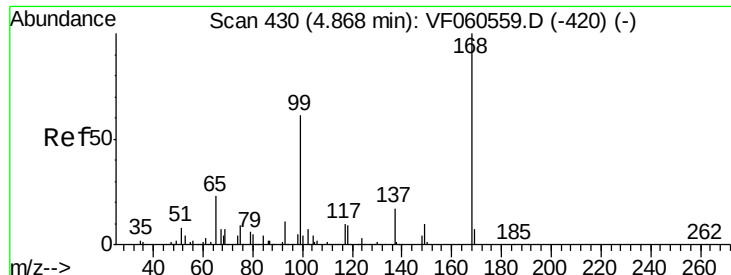
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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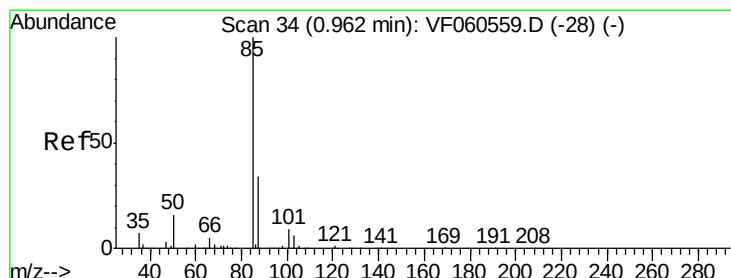
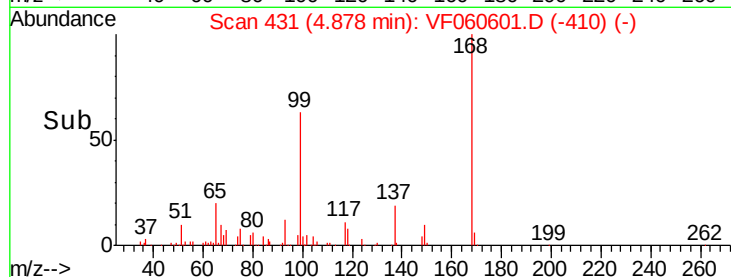
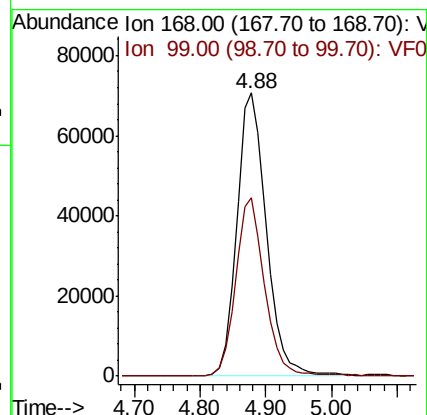
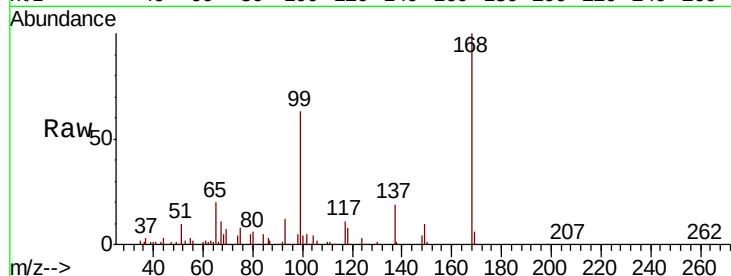




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.88 min Scan# 431
Delta R.T. 0.01 min
Lab File: VF060601.D
Acq: 6 Nov 2018 8:09

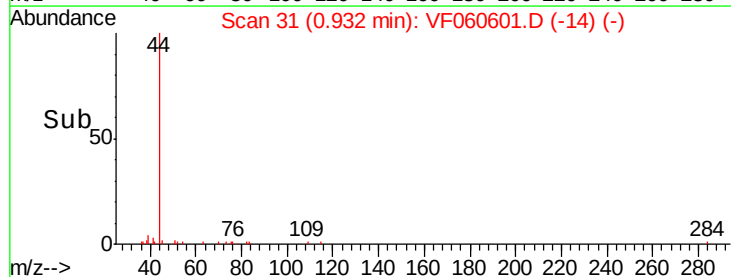
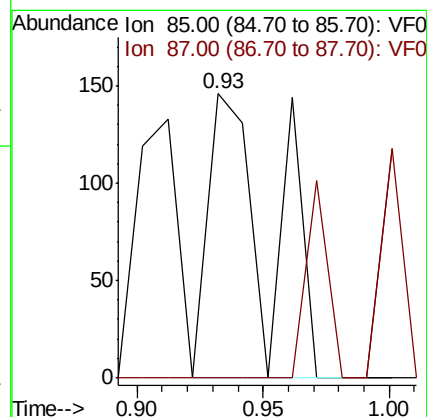
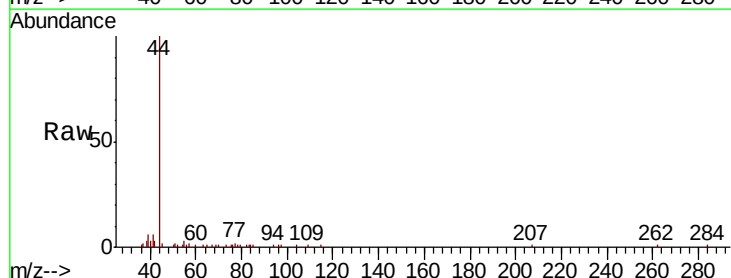
Instrument :
MSVOA_F
ClientSampleId :

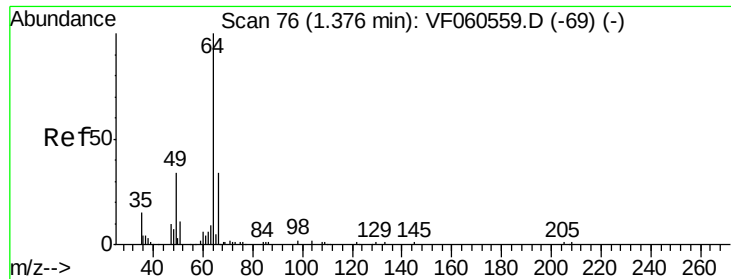
Tot Ion:168 Resp: 221998
Ion Ratio Lower Upper
168 100
99 62.8 48.6 72.8



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 0.93 min Scan# 31
Delta R.T. -0.03 min
Lab File: VF060601.D
Acq: 6 Nov 2018 8:09

Tgt Ion: 85 Resp: 249
Ion Ratio Lower Upper
85 100
87 0.0 16.9 50.7#





#6

Chloroethane

Concen: Below Cal

RT: 1.35 min Scan# 73

Delta R.T. -0.03 min

Lab File: VF060601.D

Acq: 6 Nov 2018 8:09

Instrument :

MSVOA_F

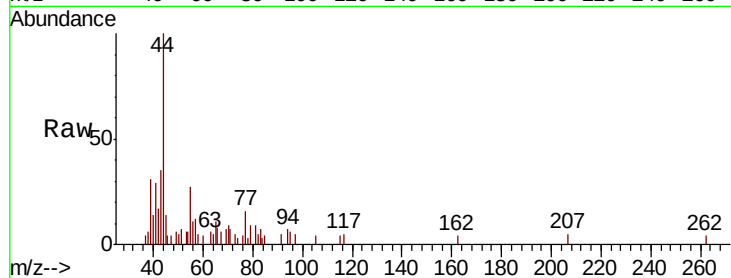
ClientSampled :

Tot Ion: 64 Resp: 231

Ion Ratio Lower Upper

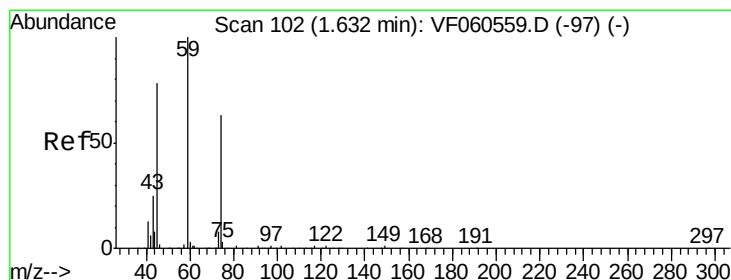
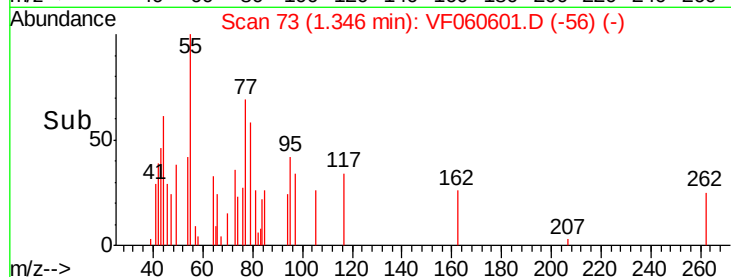
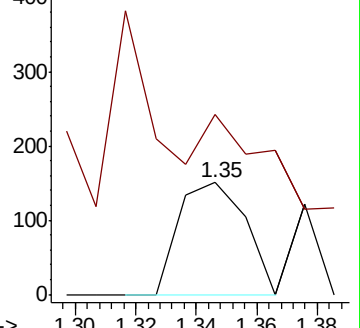
64 100

66 160.9 27.8 41.8#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



#8

Diethyl Ether

Concen: 3.887 ug/l

RT: 1.63 min Scan# 102

Delta R.T. -0.00 min

Lab File: VF060601.D

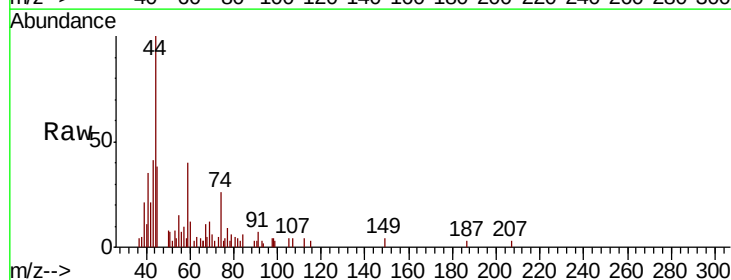
Acq: 6 Nov 2018 8:09

Tgt Ion: 74 Resp: 2414

Ion Ratio Lower Upper

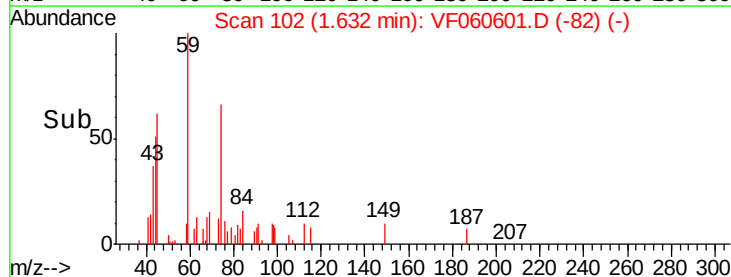
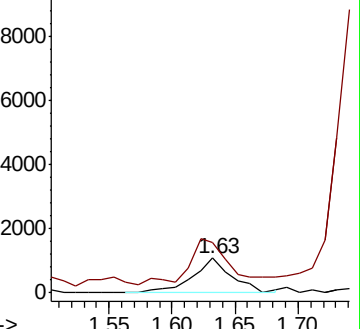
74 100

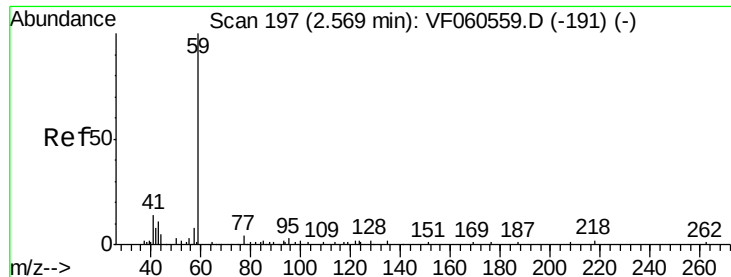
45 143.4 63.8 191.5



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



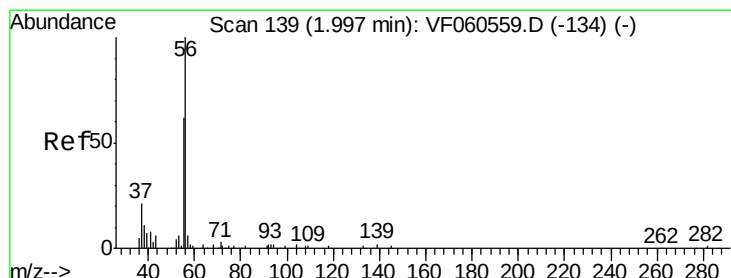
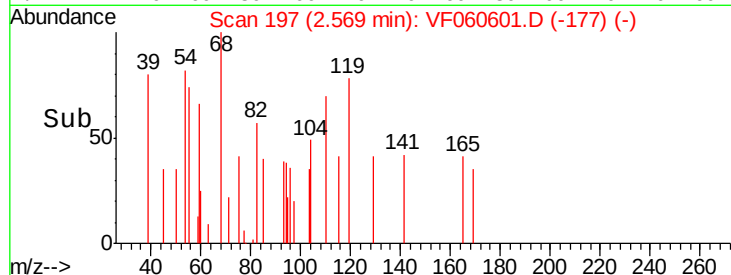
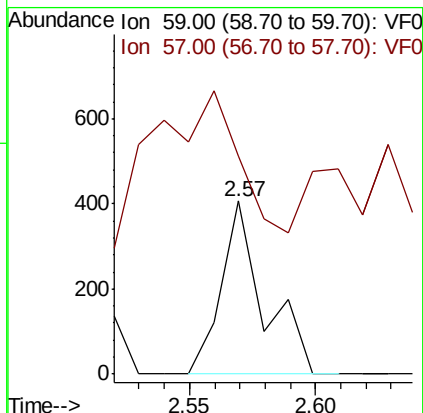
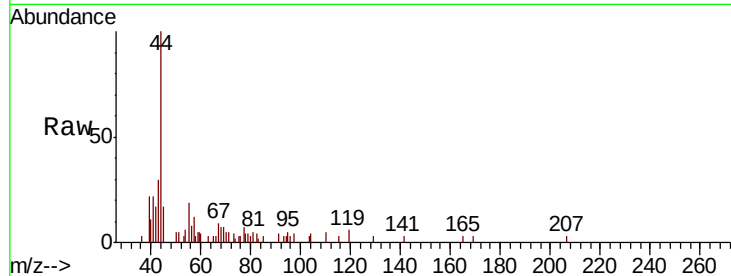


#11

Tert butyl alcohol
Concen: Below Cal
RT: 2.57 min Scan# 197
Delta R.T. 0.00 min
Lab File: VF060601.D
Acq: 6 Nov 2018 8:09

Instrument :
MSVOA_F
ClientSampled :

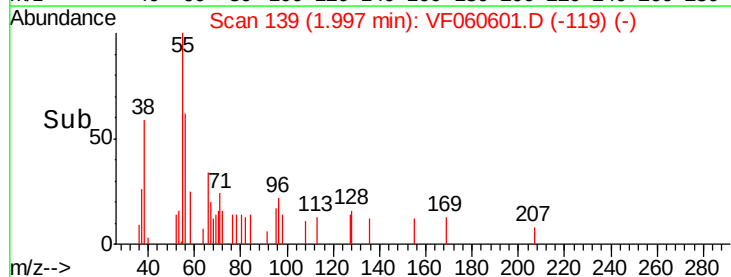
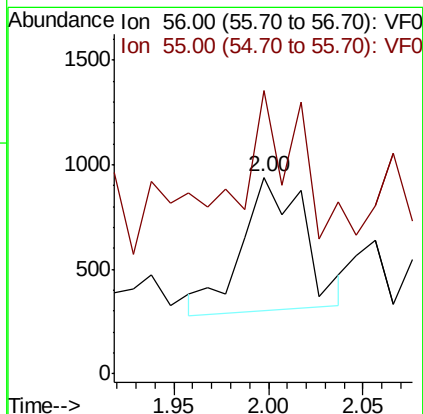
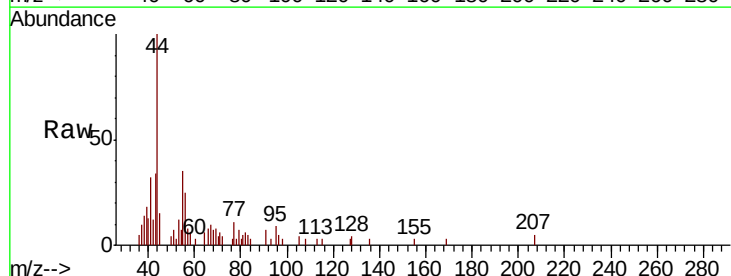
Tot Ion: 59 Resp: 476
Ion Ratio Lower Upper
59 100
57 126.0 19.0 28.4#

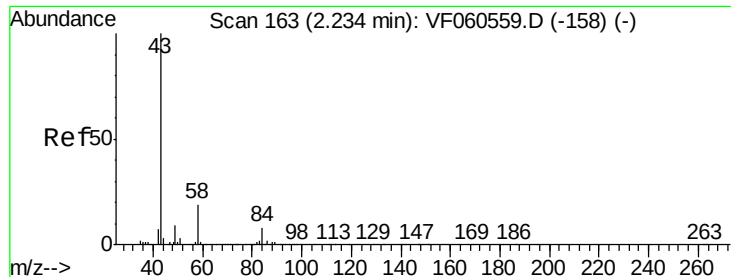


#13

Acrolein
Concen: Below Cal
RT: 2.00 min Scan# 139
Delta R.T. 0.00 min
Lab File: VF060601.D
Acq: 6 Nov 2018 8:09

Tgt Ion: 56 Resp: 1463
Ion Ratio Lower Upper
56 100
55 143.7 61.8 92.6#

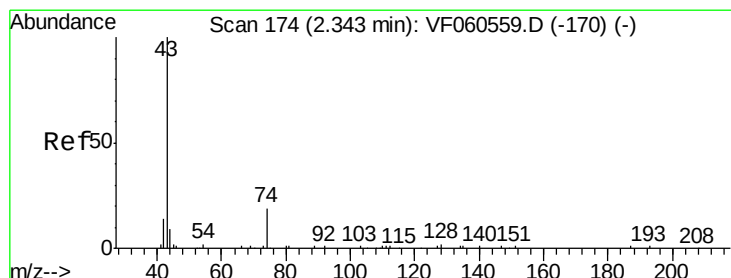
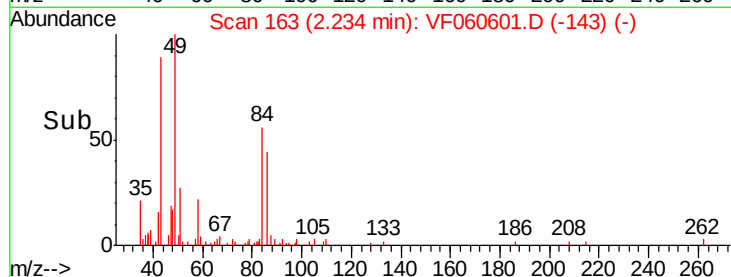
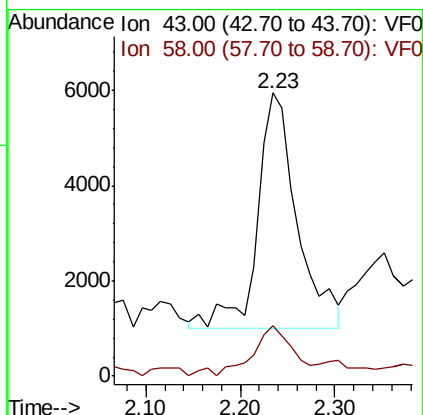
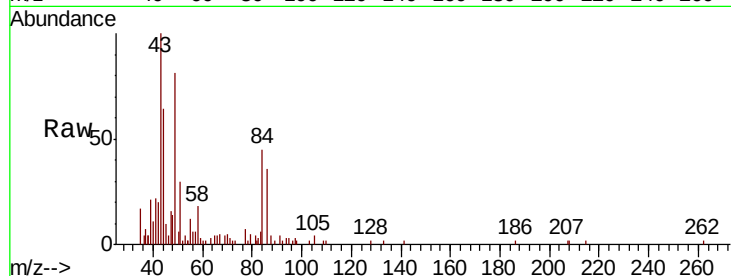




#16
Acetone
Concen: 27.287 ug/l
RT: 2.23 min Scan# 163
Delta R.T. -0.00 min
Lab File: VF060601.D
Acq: 6 Nov 2018 8:09

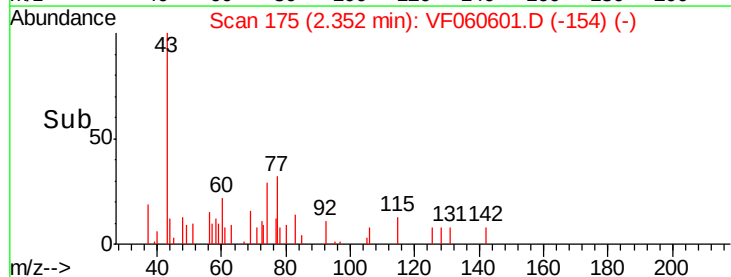
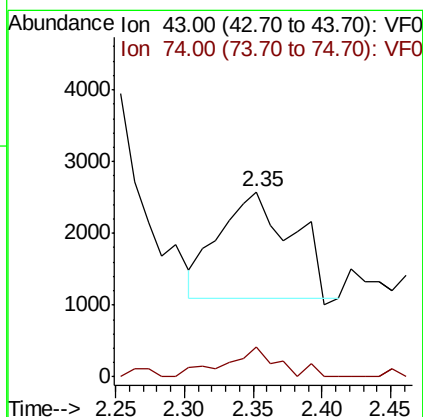
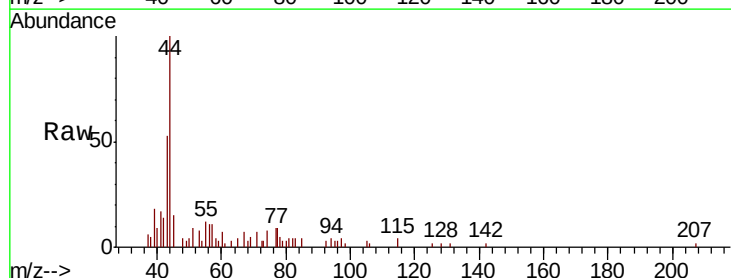
Instrument :
MSVOA_F
ClientSampleId :

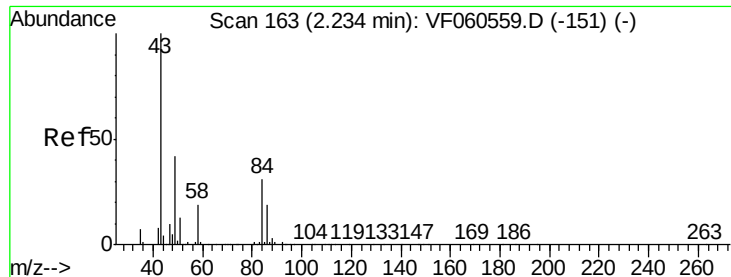
Tot Ion: 43 Resp: 14422
Ion Ratio Lower Upper
43 100
58 17.6 14.6 22.0



#18
Methyl Acetate
Concen: 6.927 ug/l
RT: 2.35 min Scan# 175
Delta R.T. 0.01 min
Lab File: VF060601.D
Acq: 6 Nov 2018 8:09

Tgt Ion: 43 Resp: 5345
Ion Ratio Lower Upper
43 100
74 16.0 12.1 18.1

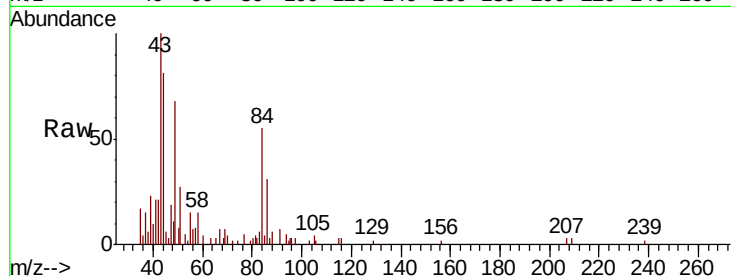




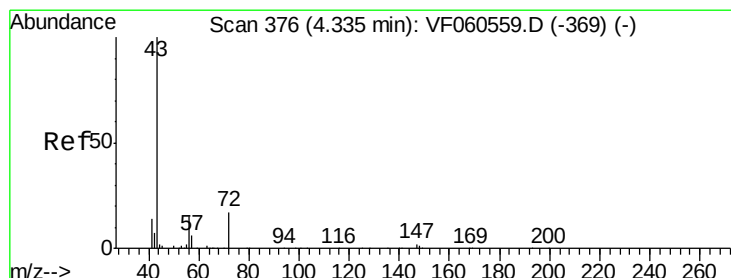
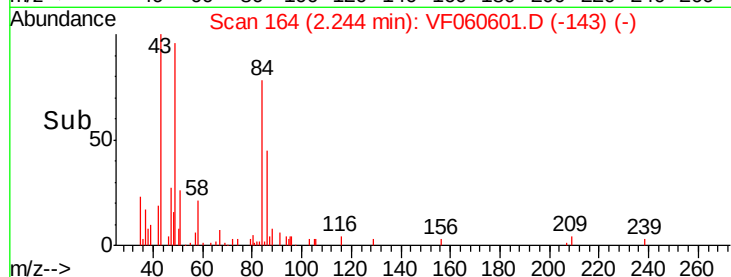
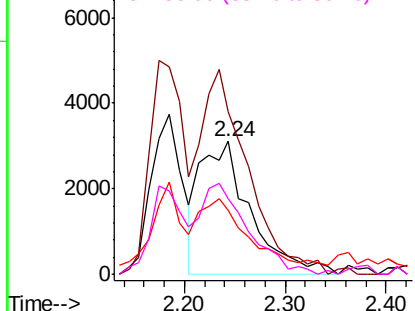
#20
Methylene Chloride
Concen: 1.568 ug/l
RT: 2.24 min Scan# 164
Delta R.T. 0.01 min
Lab File: VF060601.D
Acq: 6 Nov 2018 8:09

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	84	Resp:	10752
Ion	Ratio	Lower	Upper
84	100		
49	122.6	109.9	164.9
51	48.4	35.8	53.8
86	57.0	48.3	72.5

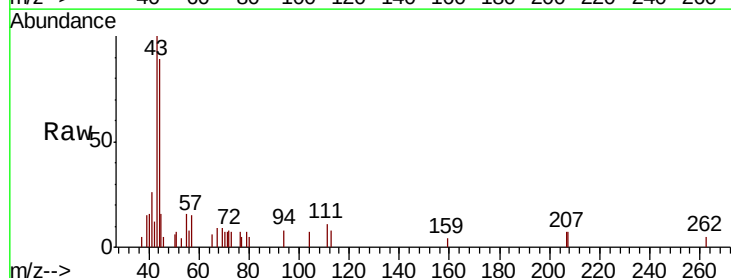


Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0

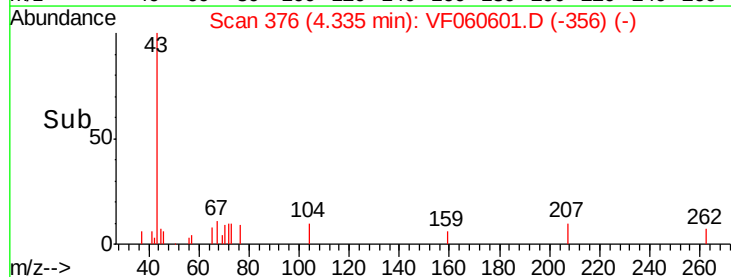
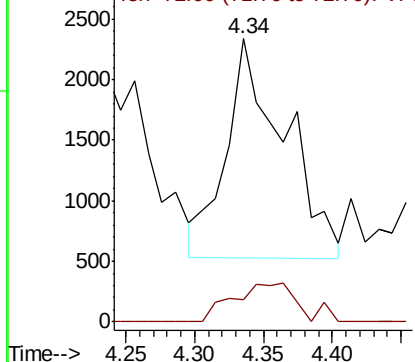


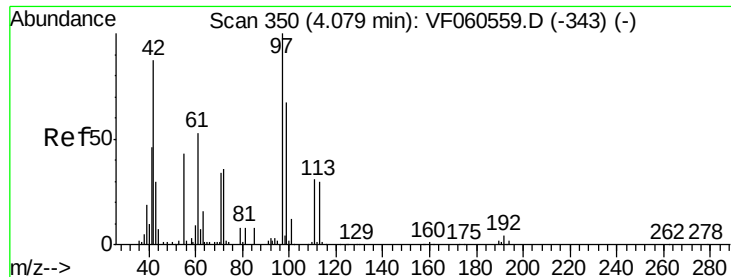
#25
2-Butanone
Concen: Below Cal
RT: 4.34 min Scan# 376
Delta R.T. 0.00 min
Lab File: VF060601.D
Acq: 6 Nov 2018 8:09

Tgt Ion:	43	Resp:	5352
Ion	Ratio	Lower	Upper
43	100		
72	7.8	16.2	24.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.09 min Scan# 351

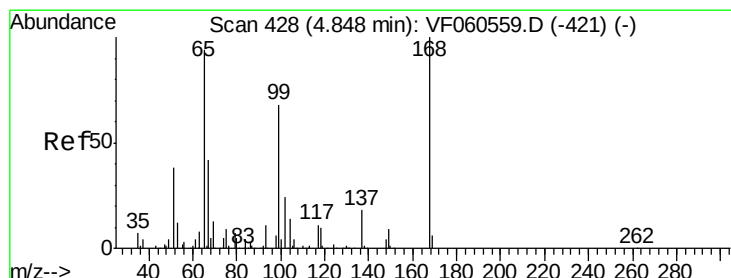
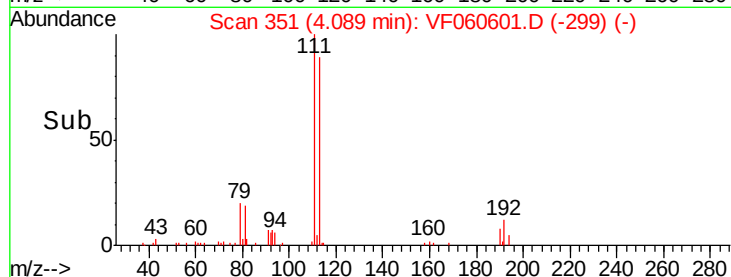
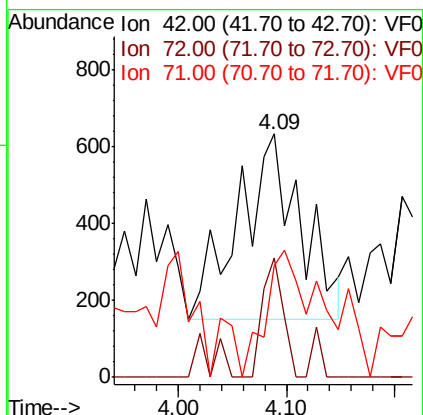
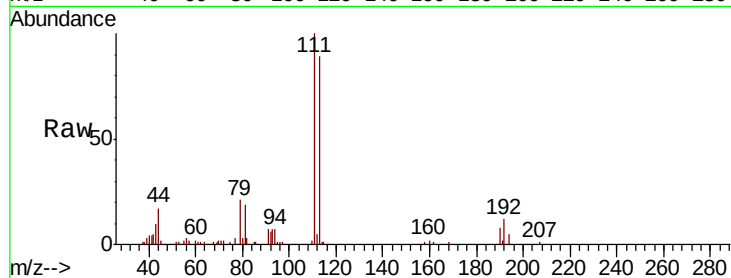
Delta R.T. 0.01 min

Lab File: VF060601.D

Acq: 6 Nov 2018 8:09

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	42	Resp:	1946
Ion	Ratio	Lower	Upper
42	100		
72	21.3	31.4	47.0#
71	65.9	31.8	47.6#



#33

1,2-Dichloroethane-d4

Concen: 50.687 ug/l

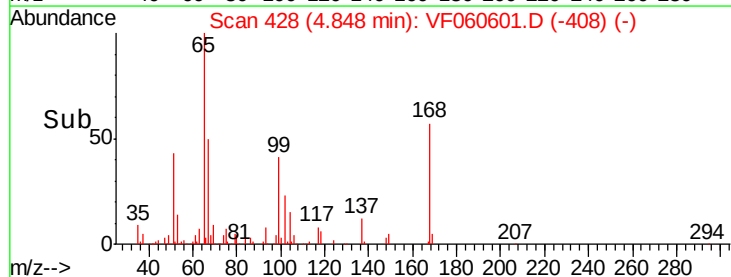
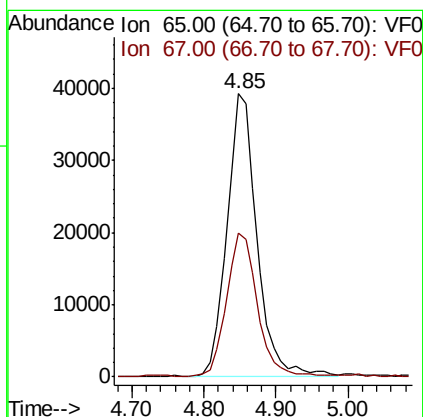
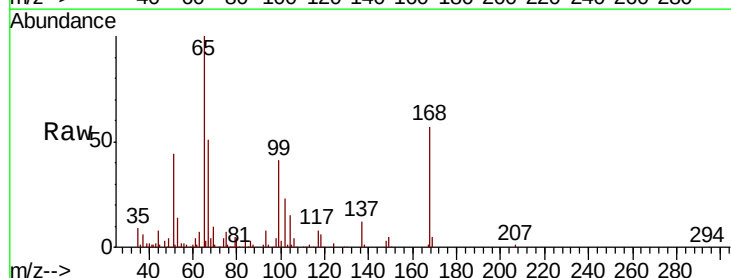
RT: 4.85 min Scan# 428

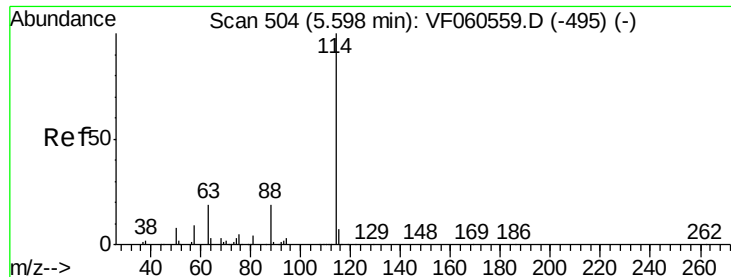
Delta R.T. -0.00 min

Lab File: VF060601.D

Acq: 6 Nov 2018 8:09

Tgt Ion:	65	Resp:	113692
Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. 0.01 min

Lab File: VF060601.D

Acq: 6 Nov 2018 8:09

Instrument :

MSVOA_F

ClientSampleId :

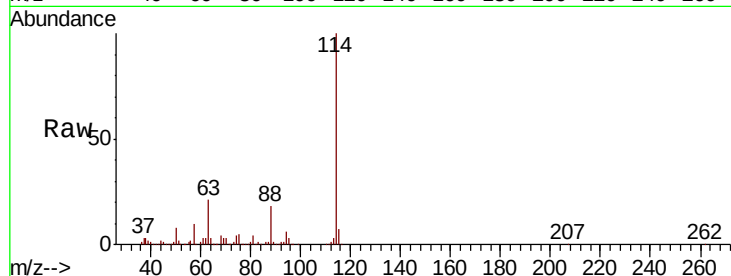
Tot Ion:114 Resp: 434713

Ion Ratio Lower Upper

114 100

63 20.8 0.0 39.0

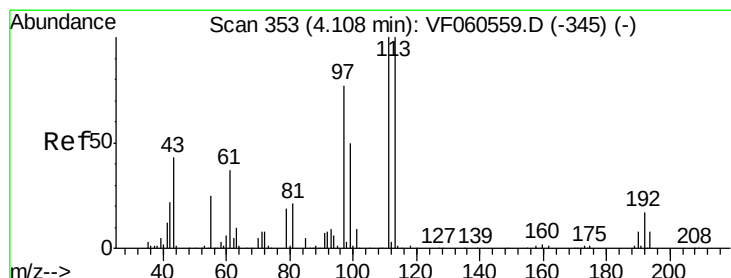
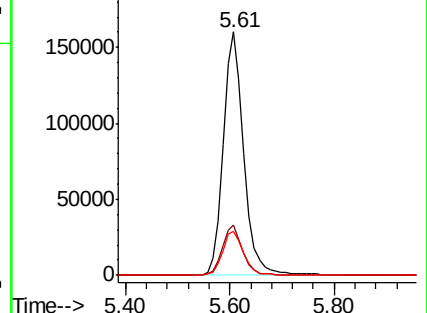
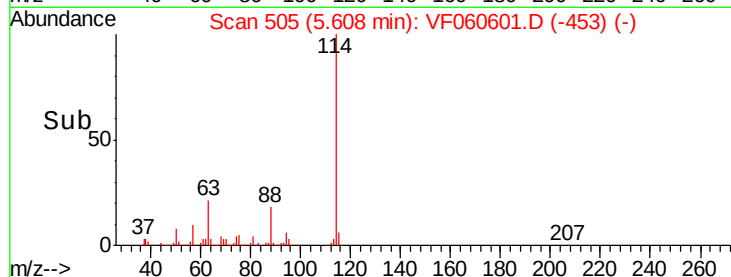
88 18.3 0.0 38.2



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: 42.280 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.01 min

Lab File: VF060601.D

Acq: 6 Nov 2018 8:09

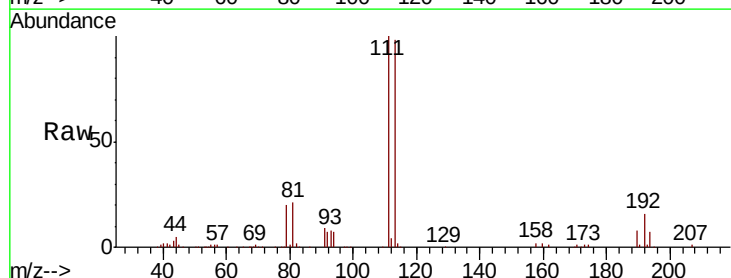
Tgt Ion:113 Resp: 142002

Ion Ratio Lower Upper

113 100

111 102.1 79.9 119.9

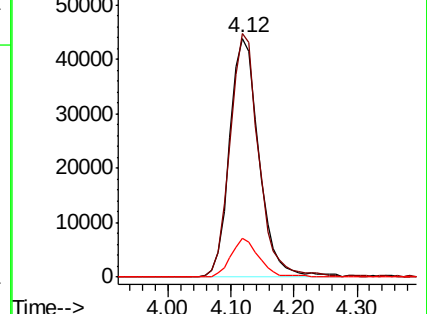
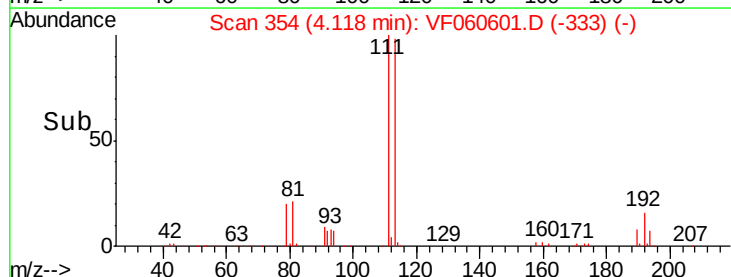
192 16.9 13.3 19.9

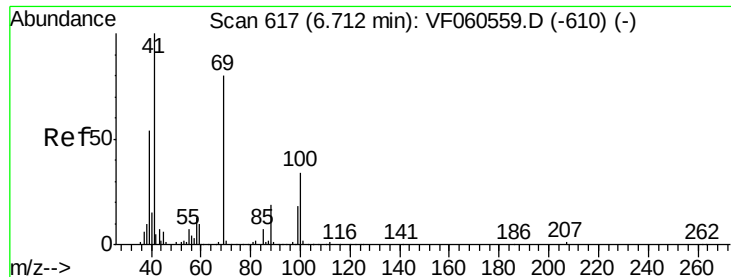


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#49

1,4-Dioxane

Concen: 3.506 ug/l

RT: 6.69 min Scan# 615

Delta R.T. -0.02 min

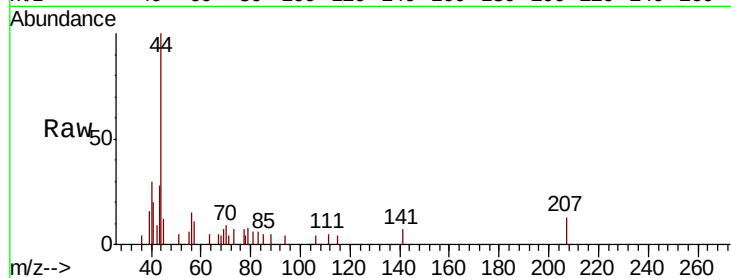
Lab File: VF060601.D

Acq: 6 Nov 2018 8:09

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 88 Resp: 67

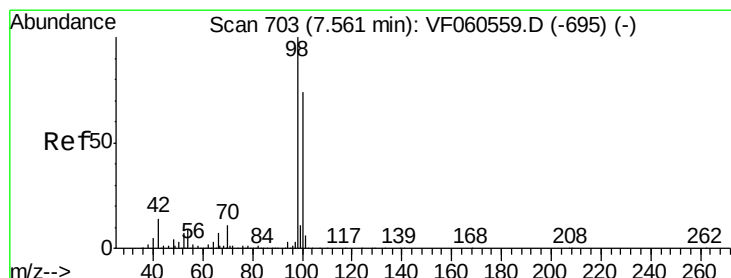
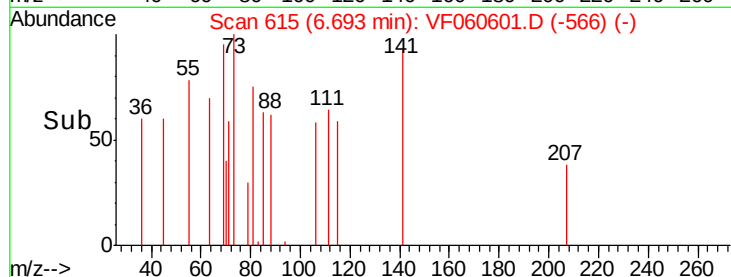
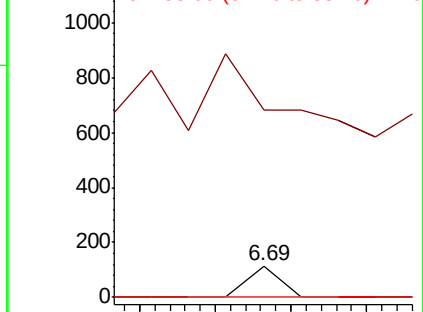
Ion	Ratio	Lower	Upper
88	100		
43	604.4	61.2	91.8#
58	0.0	56.9	85.3#



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: 34.704 ug/l

RT: 7.56 min Scan# 703

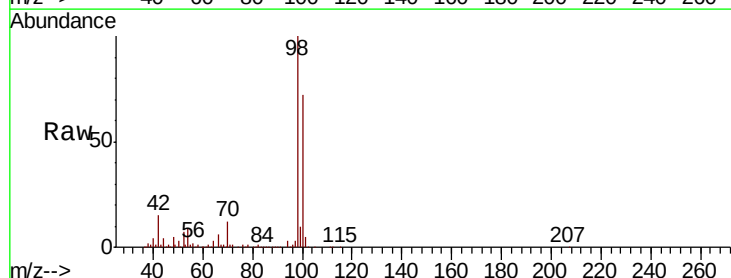
Delta R.T. -0.00 min

Lab File: VF060601.D

Acq: 6 Nov 2018 8:09

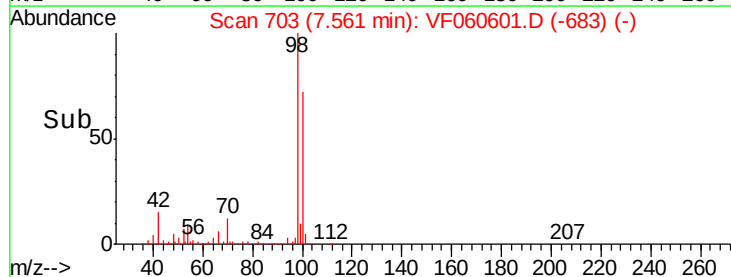
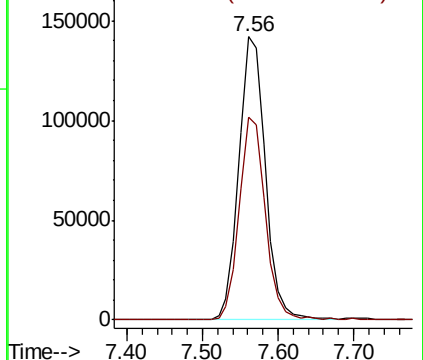
Tgt Ion: 98 Resp: 345277

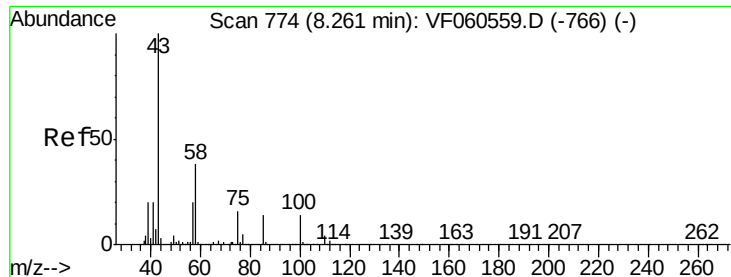
Ion	Ratio	Lower	Upper
98	100		
100	71.7	59.4	89.2



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: 1.922 ug/l

RT: 8.28 min Scan# 776

Delta R.T. 0.02 min

Lab File: VF060601.D

Acq: 6 Nov 2018 8:09

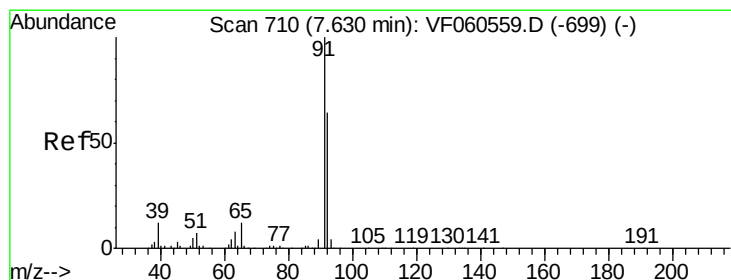
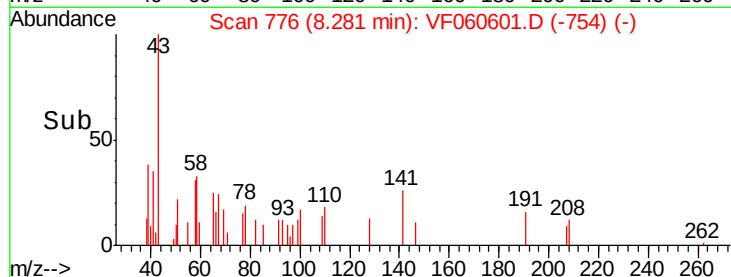
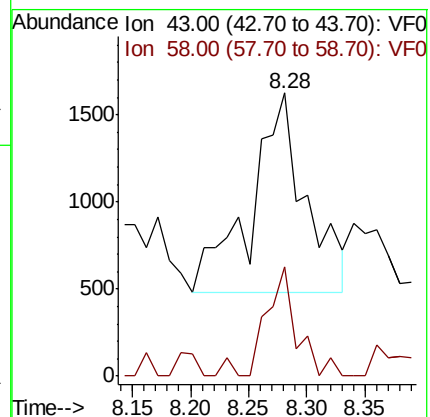
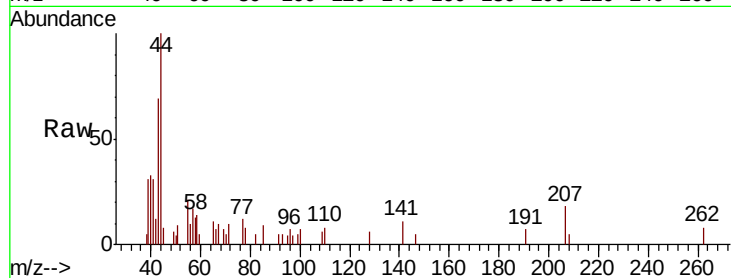
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 3756

Ion Ratio Lower Upper

43 100

58 38.7 30.1 45.1



#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 7.64 min Scan# 711

Delta R.T. 0.01 min

Lab File: VF060601.D

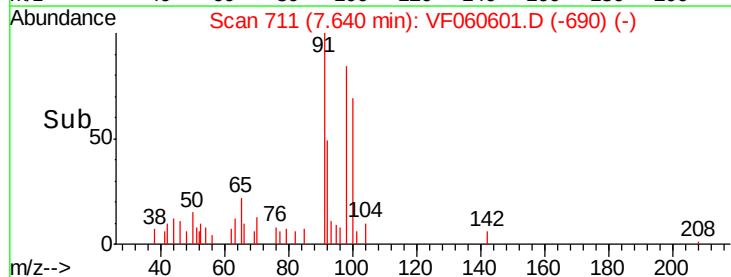
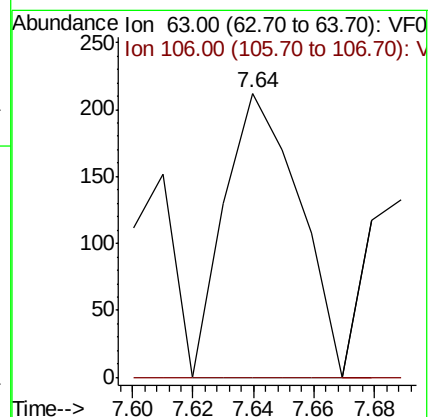
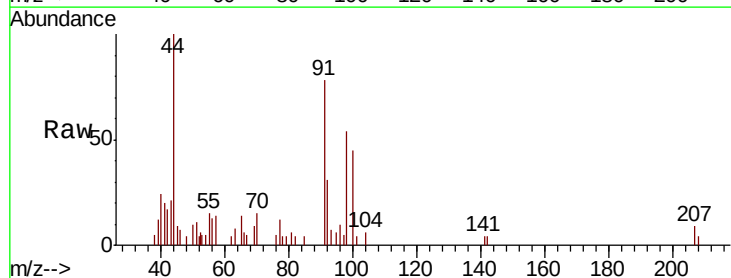
Acq: 6 Nov 2018 8:09

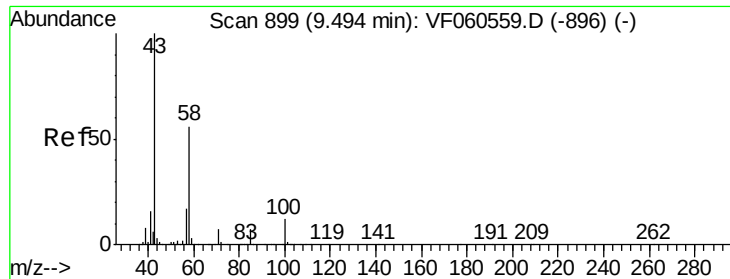
Tgt Ion: 63 Resp: 367

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

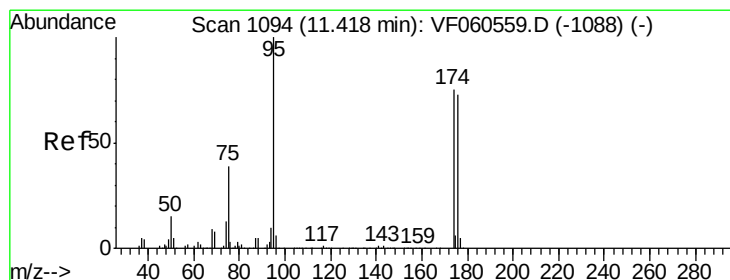
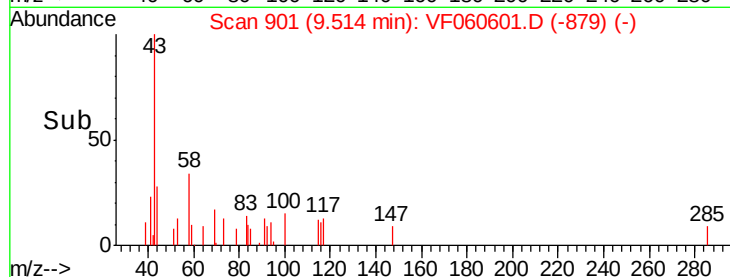
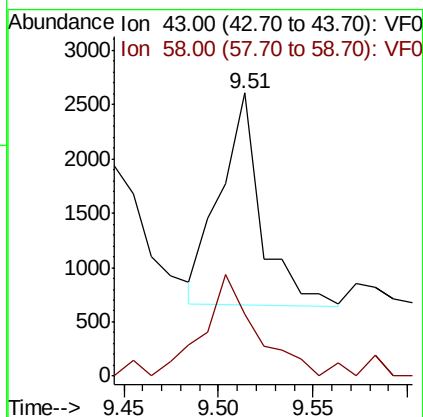
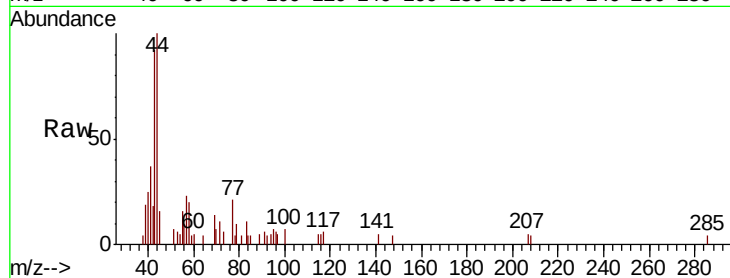




#59
2-Hexanone
Concen: Below Cal
RT: 9.51 min Scan# 901
Delta R.T. 0.02 min
Lab File: VF060601.D
Acq: 6 Nov 2018 8:09

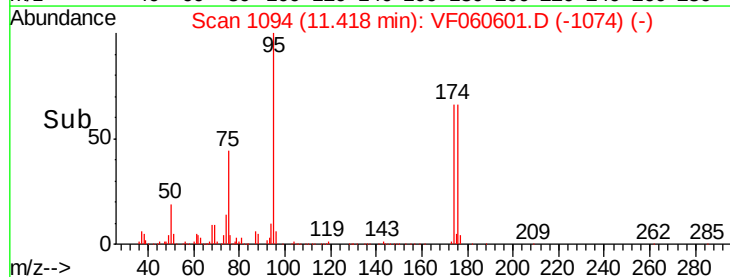
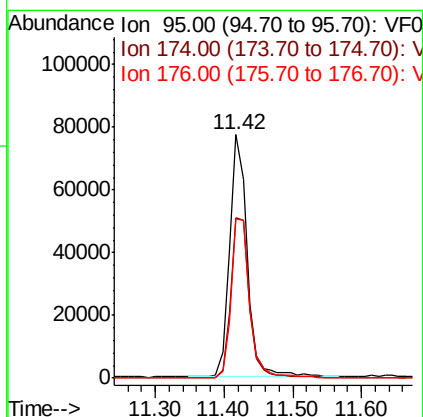
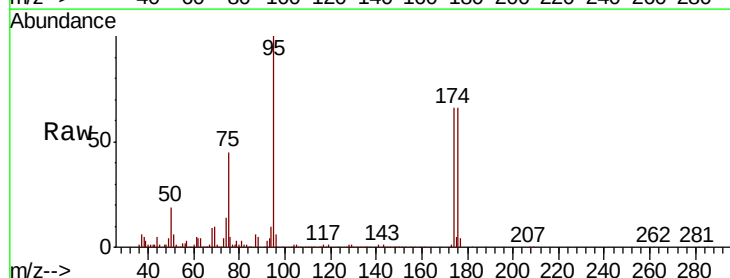
Instrument :
MSVOA_F
ClientSampled :

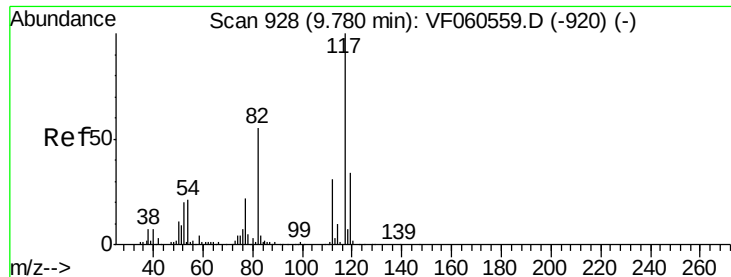
Tot Ion: 43 Resp: 2936
Ion Ratio Lower Upper
43 100
58 21.9 26.1 78.3#



#62
4-Bromofluorobenzene
Concen: 31.379 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. -0.00 min
Lab File: VF060601.D
Acq: 6 Nov 2018 8:09

Tgt Ion: 95 Resp: 136558
Ion Ratio Lower Upper
95 100
174 66.1 0.0 149.0
176 65.5 0.0 145.6

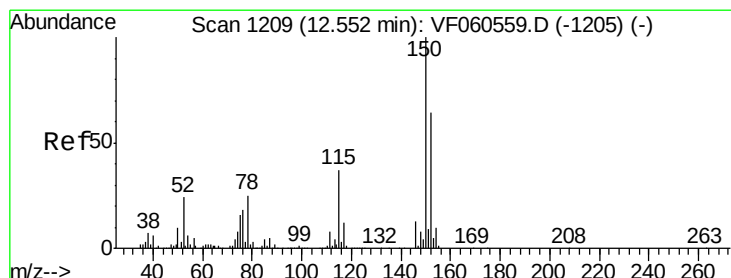
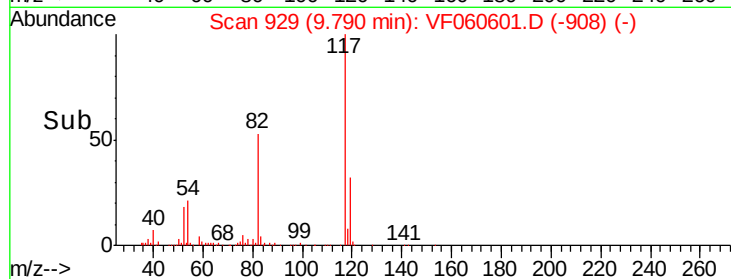
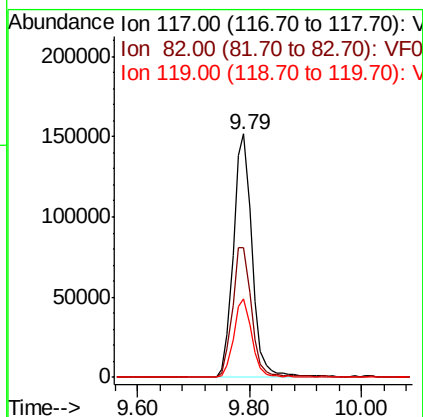
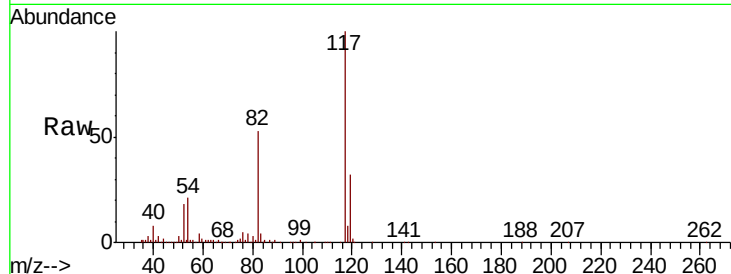




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. 0.01 min
Lab File: VF060601.D
Acq: 6 Nov 2018 8:09

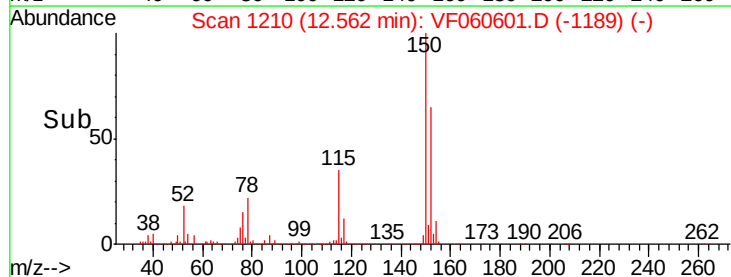
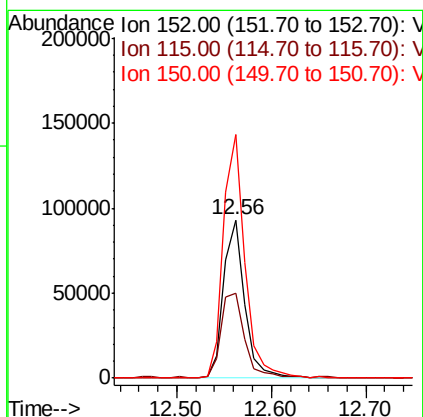
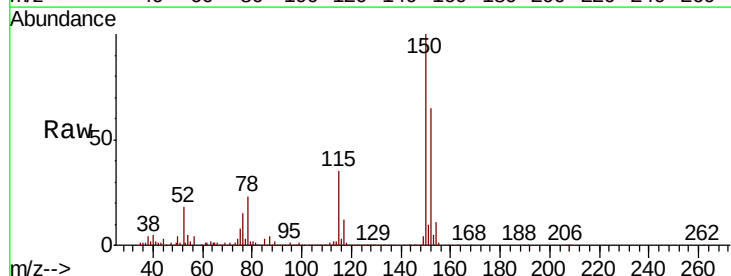
Instrument :
MSVOA_F
ClientSampled :

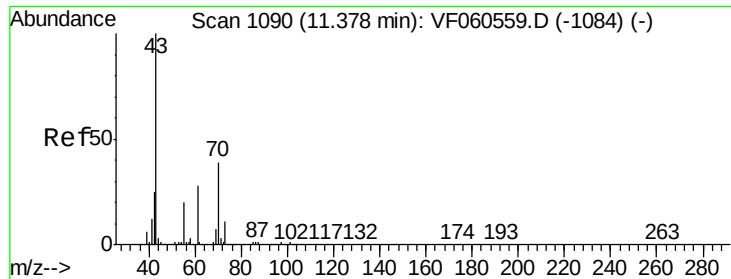
Tot Ion:117 Resp: 352484
Ion Ratio Lower Upper
117 100
82 53.2 43.9 65.9
119 32.3 27.4 41.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1210
Delta R.T. 0.01 min
Lab File: VF060601.D
Acq: 6 Nov 2018 8:09

Tgt Ion:152 Resp: 144808
Ion Ratio Lower Upper
152 100
115 54.0 29.6 88.8
150 154.2 0.0 315.6





#74

N-amvl acetate

Concen: Below Cal

RT: 11.39 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VF060601.D

Acq: 6 Nov 2018 8:09

Instrument :

MSVOA_F

ClientSampled :

Tot Ion: 43 Resp: 1278

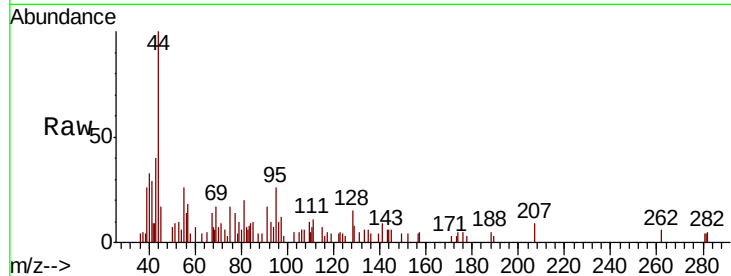
Ion Ratio Lower Upper

43 100

70 18.2 30.9 46.3#

55 63.9 16.6 24.8#

61 0.0 22.0 33.0#



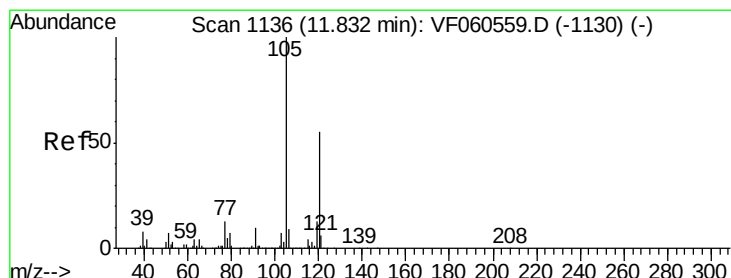
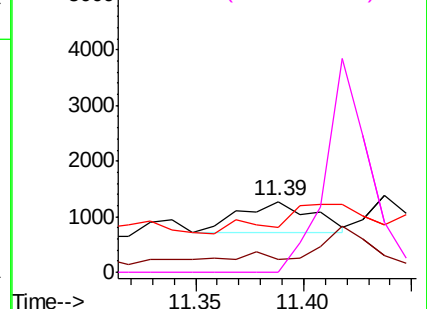
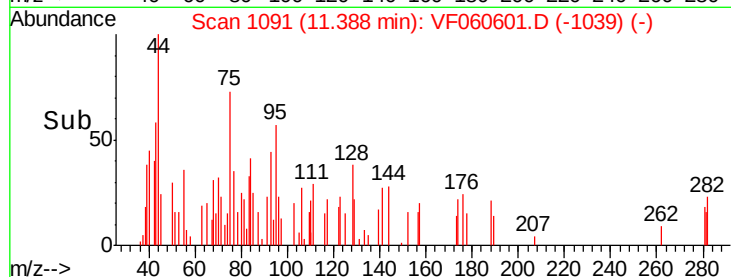
Abundance

Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#80

1,3,5-Trimethylbenzene

Concen: 1.305 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. -0.00 min

Lab File: VF060601.D

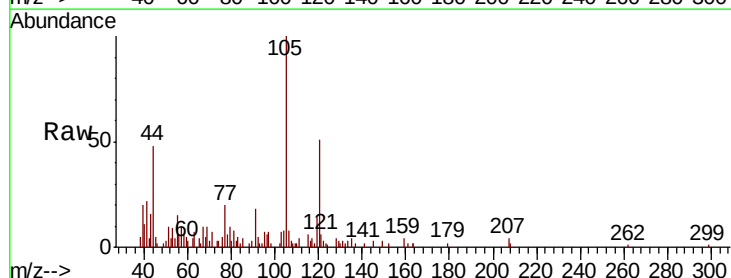
Acq: 6 Nov 2018 8:09

Tgt Ion:105 Resp: 12144

Ion Ratio Lower Upper

105 100

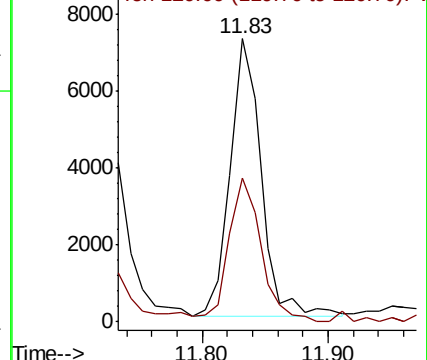
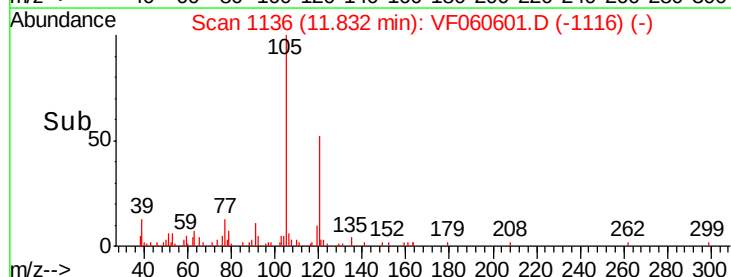
120 50.7 27.6 82.8

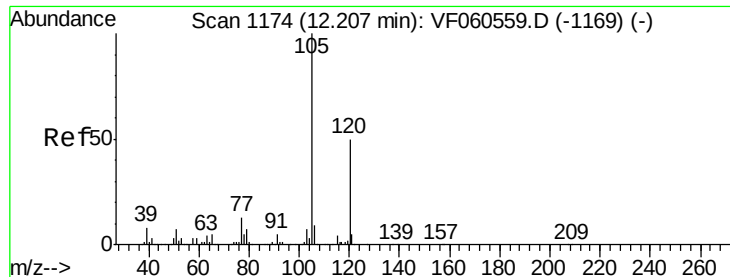


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



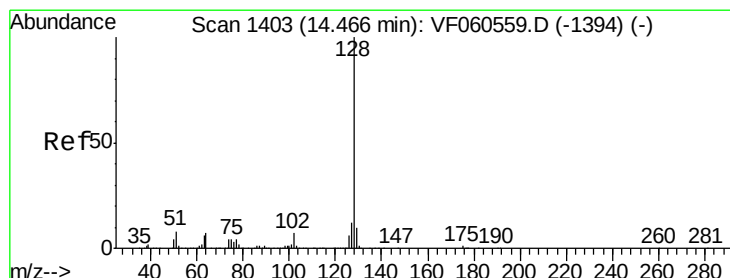
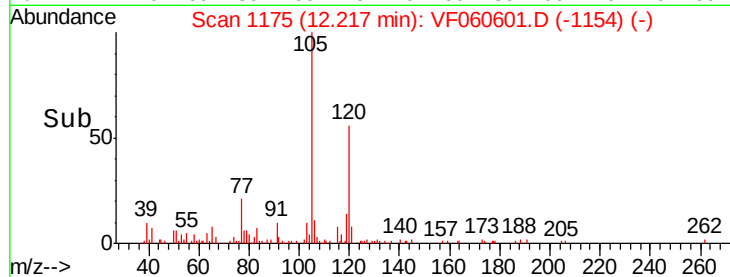
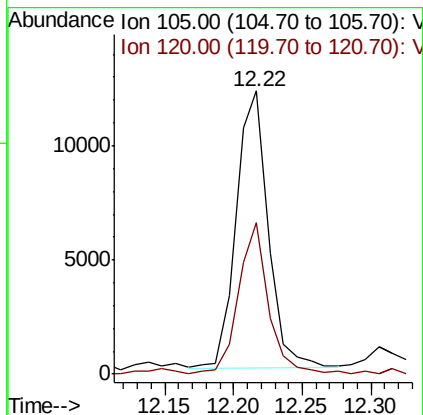
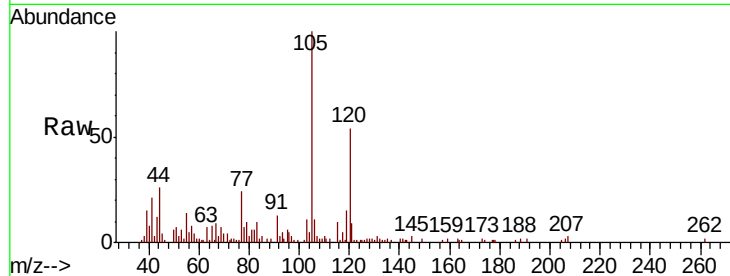


#84

1,2,4-Trimethylbenzene
Concen: 2.162 ug/l
RT: 12.22 min Scan# 1175
Delta R.T. 0.01 min
Lab File: VF060601.D
Acq: 6 Nov 2018 8:09

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:105 Resp: 19710
Ion Ratio Lower Upper
105 100
120 53.6 25.6 76.8



#95

Naphthalene
Concen: 2.032 ug/l
RT: 14.47 min Scan# 1403
Delta R.T. -0.00 min
Lab File: VF060601.D
Acq: 6 Nov 2018 8:09

Tgt Ion:128 Resp: 12537
Ion Ratio Lower Upper
128 100
127 16.6 9.4 14.0#
129 12.6 8.4 12.6

