

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110518\
 Data File : VF060585.D
 Acq On : 5 Nov 2018 21:38
 Operator : VA/AP
 Sample : J5741-39RE
 Misc : 5.95/5mL/MSVOA-F/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 06 06:57:39 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	4.87	168	248192	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	454362	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	359645	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	137111	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.84	65	112186	44.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.48%	
35) Dibromofluoromethane	4.11	113	142131	40.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.98%	
50) Toluene-d8	7.55	98	347473	33.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	66.82%	
62) 4-Bromofluorobenzene	11.41	95	123918	27.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	54.48%	

Target Compounds

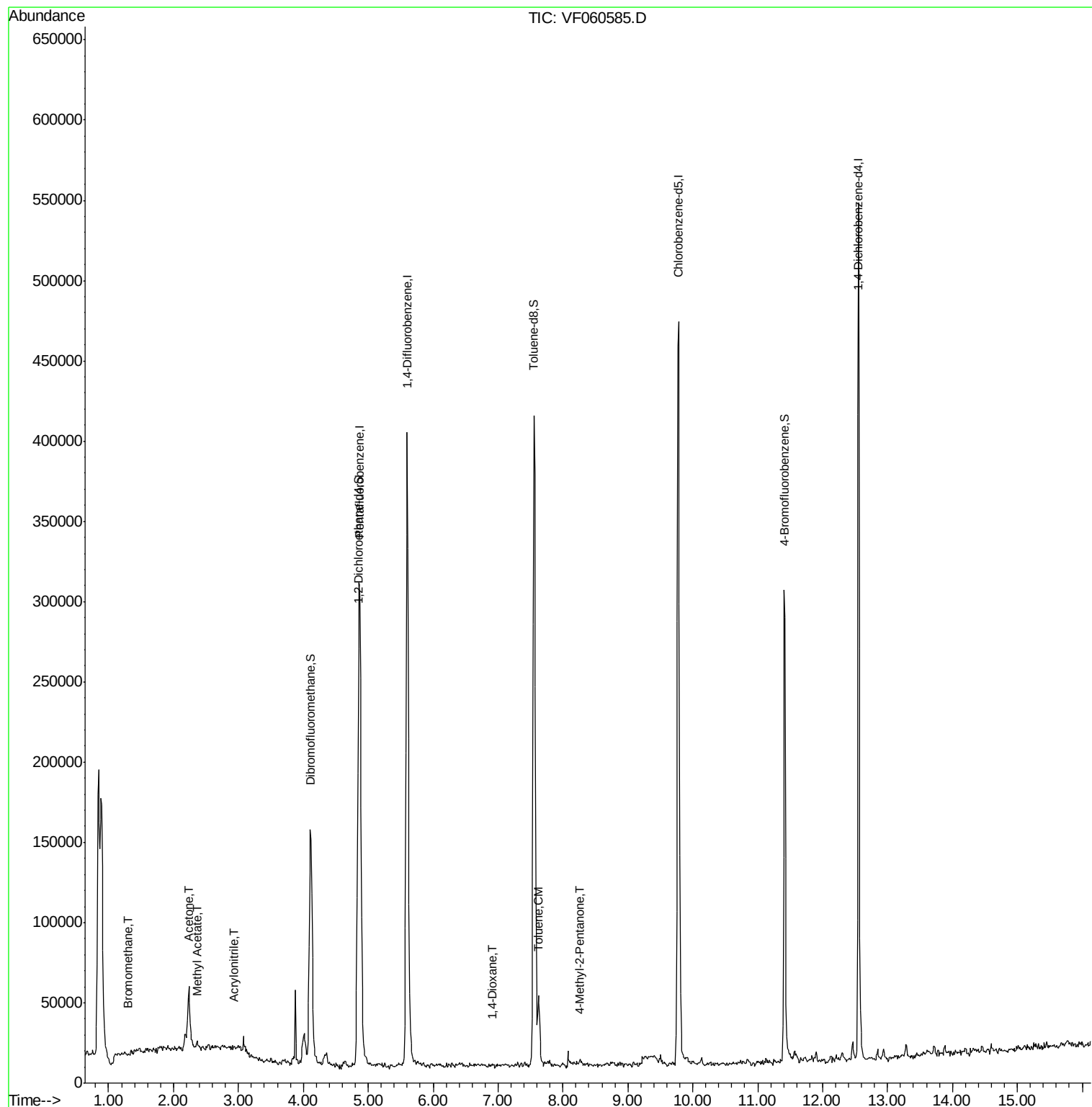
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	1097	Below Cal		91
5) Bromomethane	1.31	94	1270	1.130 ug/l #		31
6) Chloroethane	1.39	64	79	Below Cal #		1
11) Tert butyl alcohol	2.60	59	544	Below Cal #		1
13) Acrolein	1.99	56	699	Below Cal #		51
15) Acrylonitrile	2.94	53	426	1.425 ug/l #		12
16) Acetone	2.24	43	49347	83.511 ug/l		95
18) Methyl Acetate	2.35	43	5110	5.993 ug/l #		77
20) Methylene Chloride	2.24	84	5728	Below Cal		87
25) 2-Butanone	4.34	43	16844	Below Cal		95
29) Tetrahydrofuran	4.08	42	1371	Below Cal #		79
49) 1,4-Dioxane	6.91	88	97	4.857 ug/l #		1
51) 4-Methyl-2-Pentanone	8.26	43	5843	2.860 ug/l #		68
52) Toluene	7.63	92	23276	2.942 ug/l		95
58) 2-Chloroethyl Vinyl ether	7.62	63	3290	Below Cal		100
59) 2-Hexanone	9.51	43	4144	Below Cal		76
74) N-amyl acetate	11.39	43	1356	Below Cal #		80
89) n-Butylbenzene	12.85	91	2513	Below Cal		87

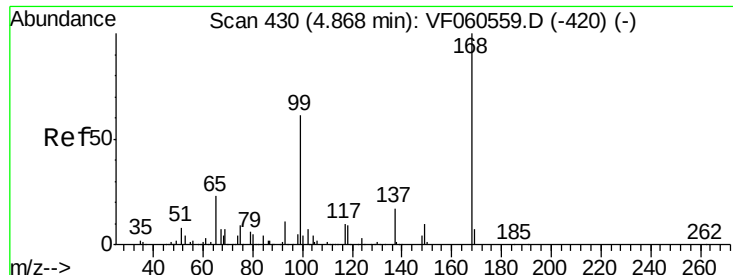
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Nov 03 05:29:31 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.00 min

Lab File: VF060585.D

Acq: 5 Nov 2018 21:38

Instrument :

MSVOA_F

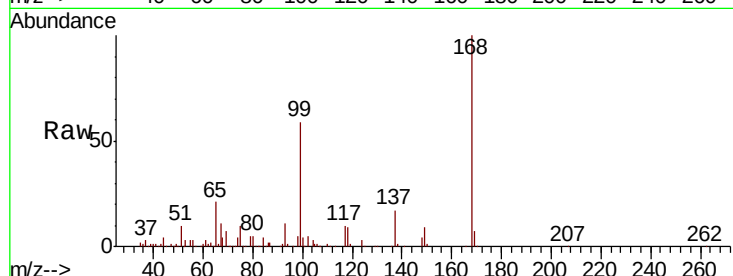
ClientSampled :

Tot Ion:168 Resp: 248192

Ion Ratio Lower Upper

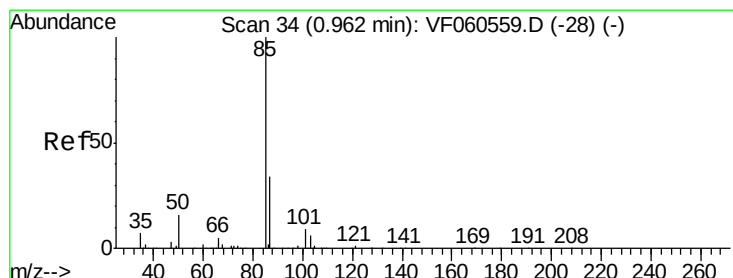
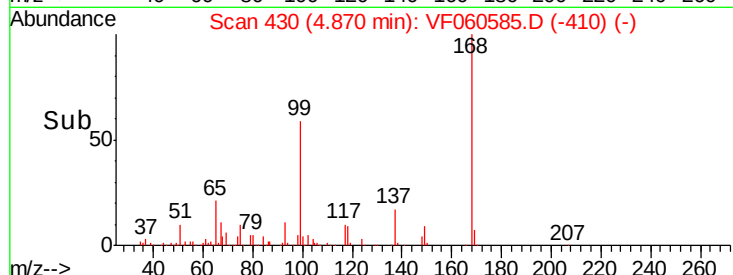
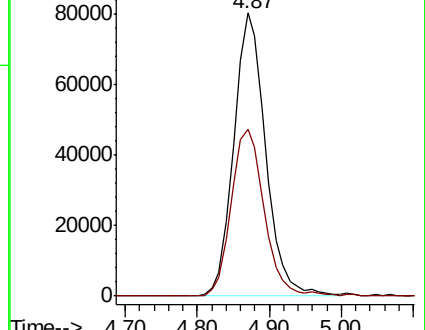
168 100

99 59.0 48.6 72.8



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: 0.96 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF060585.D

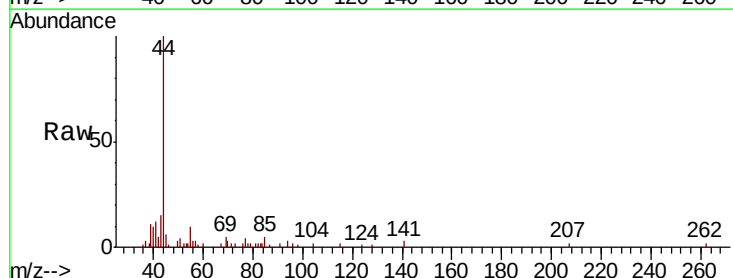
Acq: 5 Nov 2018 21:38

Tgt Ion: 85 Resp: 1097

Ion Ratio Lower Upper

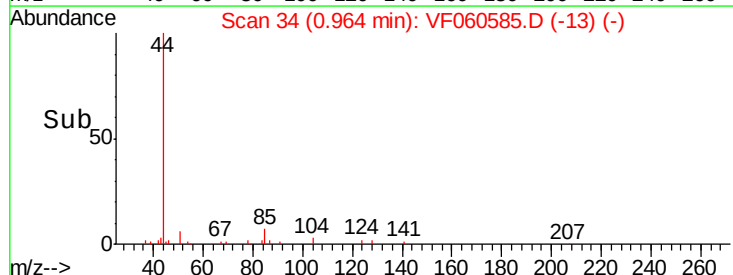
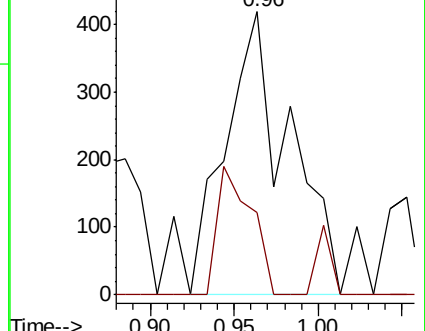
85 100

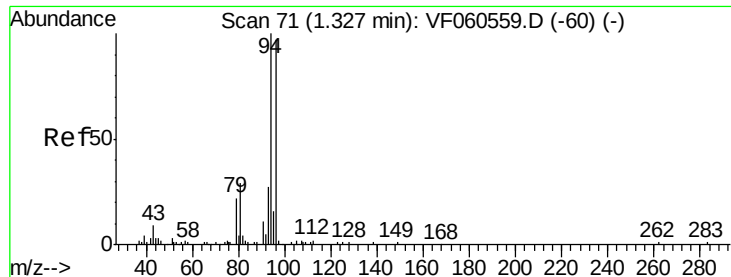
87 28.9 16.9 50.7



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#5

Bromomethane

Concen: 1.130 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.02 min

Lab File: VF060585.D

Acq: 5 Nov 2018 21:38

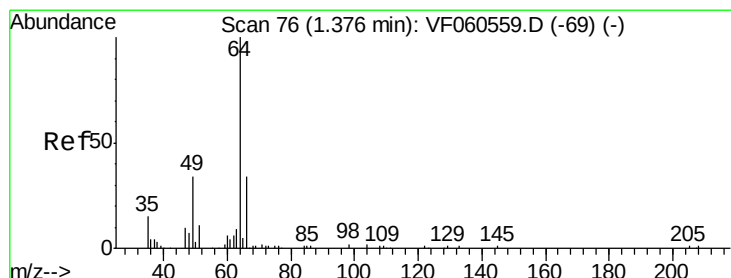
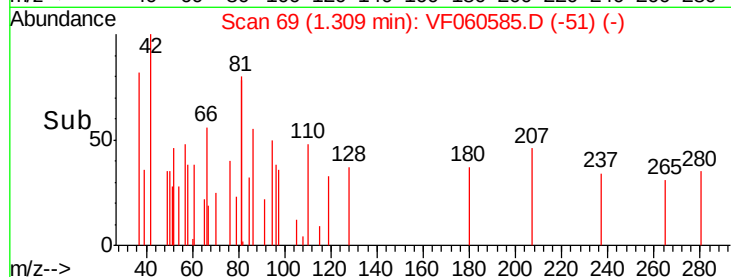
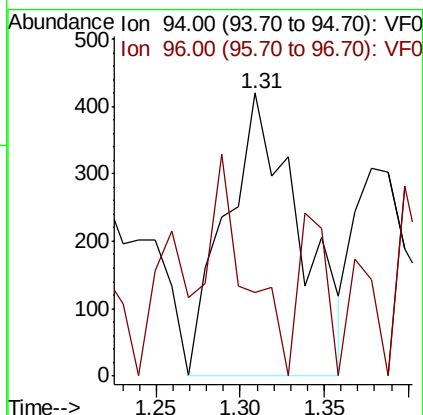
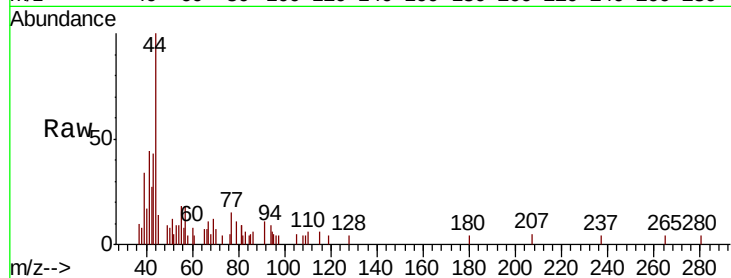
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 94 Resp: 1270

Ion Ratio Lower Upper

94 100

96 29.5 77.9 116.9#



#6

Chloroethane

Concen: Below Cal

RT: 1.39 min Scan# 77

Delta R.T. 0.01 min

Lab File: VF060585.D

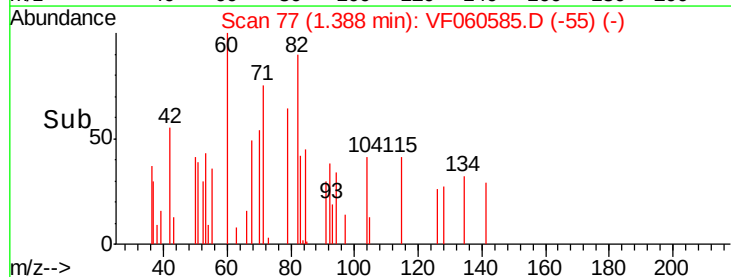
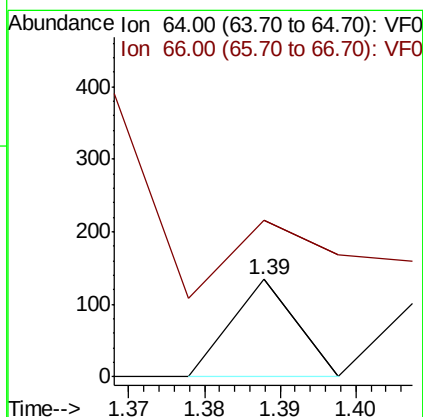
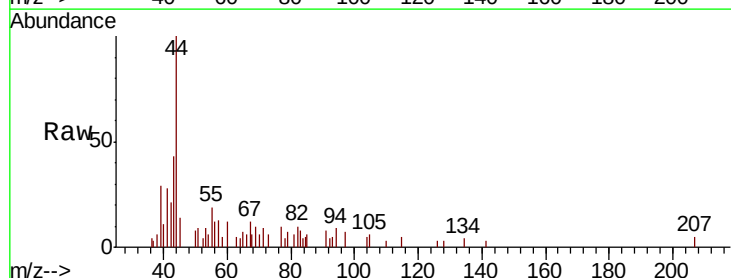
Acq: 5 Nov 2018 21:38

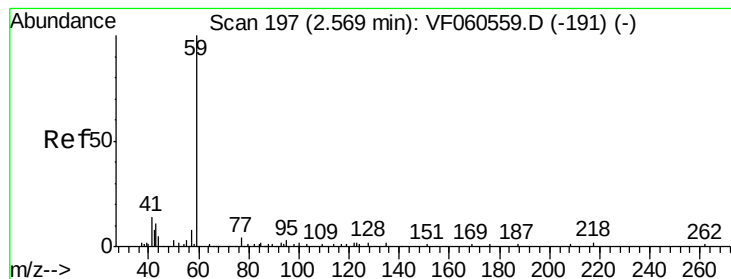
Tgt Ion: 64 Resp: 79

Ion Ratio Lower Upper

64 100

66 160.4 27.8 41.8#



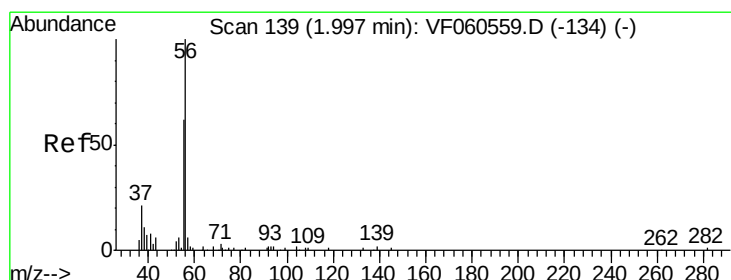
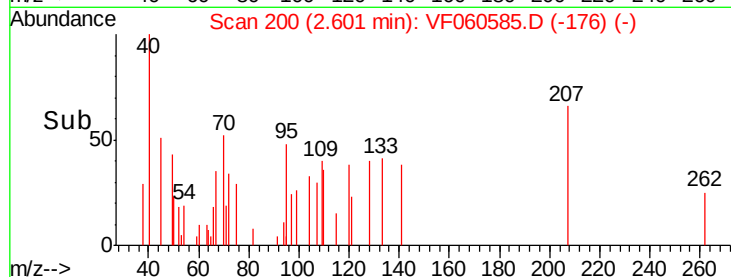
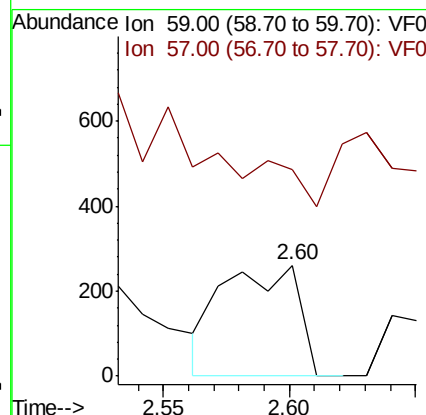
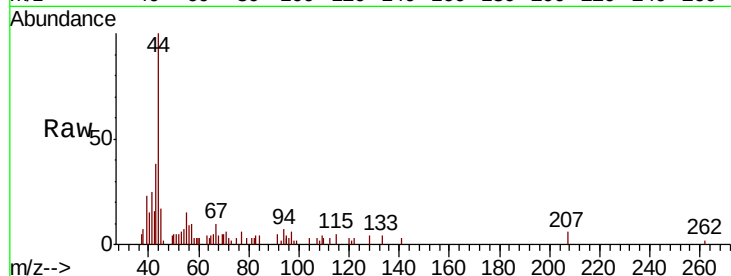


#11

Tert butyl alcohol
Concen: Below Cal
RT: 2.60 min Scan# 200
Delta R.T. 0.03 min
Lab File: VF060585.D
Acq: 5 Nov 2018 21:38

Instrument :
MSVOA_F
ClientSampleId :

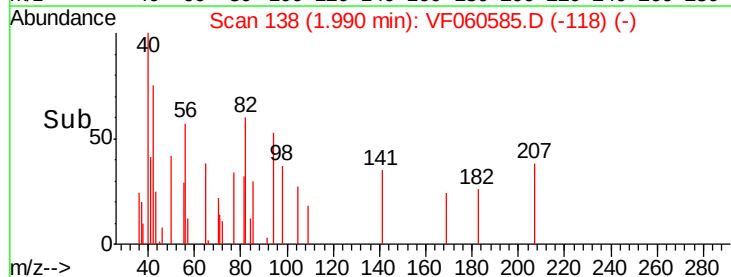
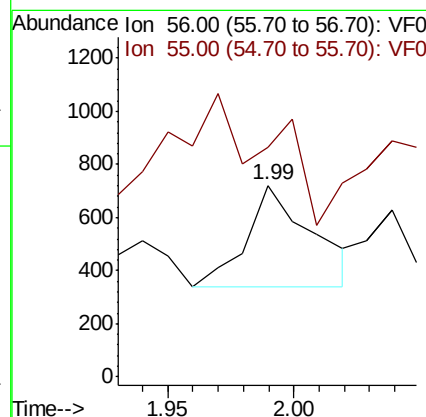
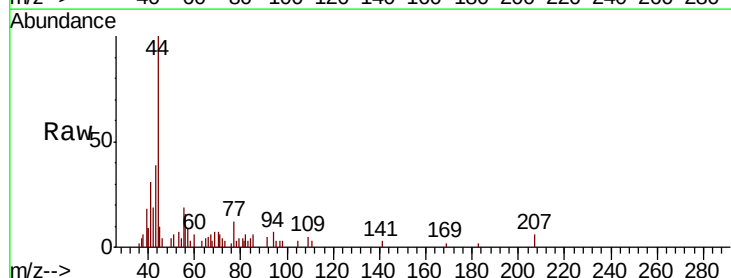
Tot Ion: 59 Resp: 544
Ion Ratio Lower Upper
59 100
57 186.2 19.0 28.4#

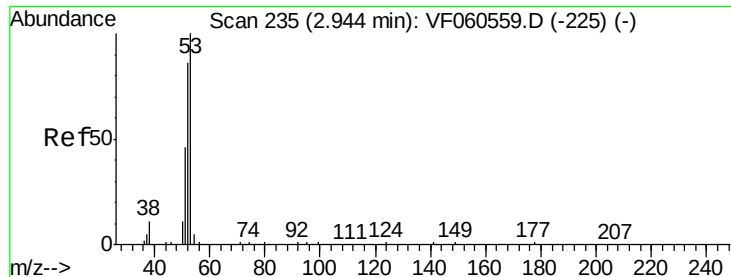


#13

Acrolein
Concen: Below Cal
RT: 1.99 min Scan# 138
Delta R.T. -0.01 min
Lab File: VF060585.D
Acq: 5 Nov 2018 21:38

Tgt Ion: 56 Resp: 699
Ion Ratio Lower Upper
56 100
55 120.0 61.8 92.6#





#15

Acrylonitrile

Concen: 1.425 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.01 min

Lab File: VF060585.D

Acq: 5 Nov 2018 21:38

Instrument :
MSVOA_F
ClientSampled :

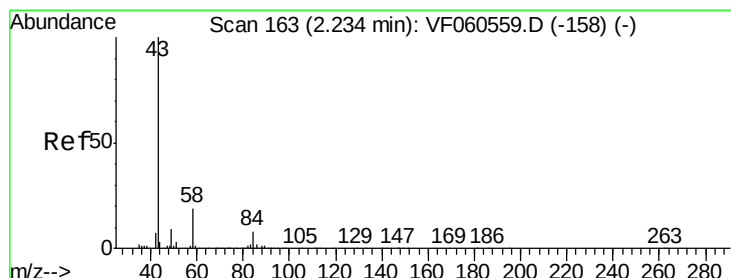
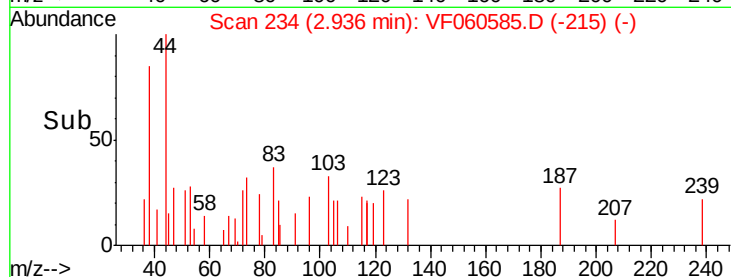
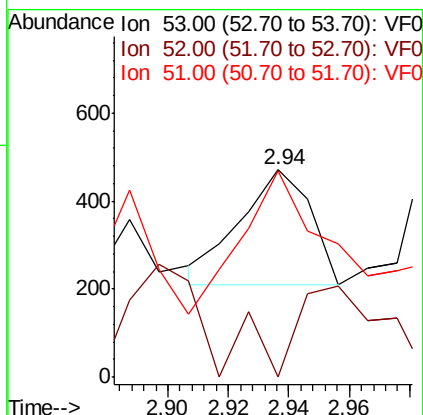
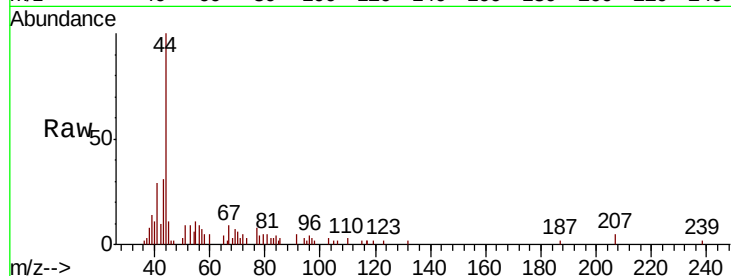
Tot Ion: 53 Resp: 426

Ion Ratio Lower Upper

53 100

52 0.0 68.5 102.7#

51 99.8 38.2 57.2#



#16

Acetone

Concen: 83.511 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.00 min

Lab File: VF060585.D

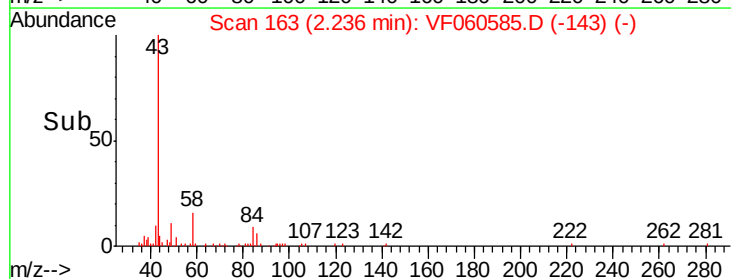
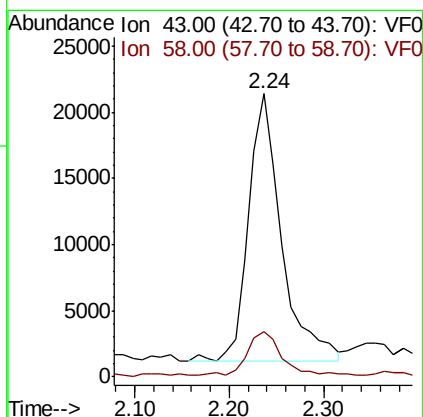
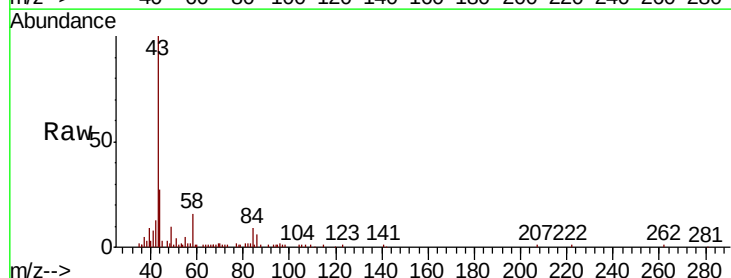
Acq: 5 Nov 2018 21:38

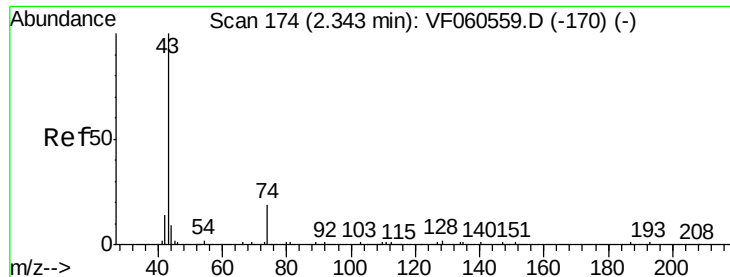
Tgt Ion: 43 Resp: 49347

Ion Ratio Lower Upper

43 100

58 15.9 14.6 22.0

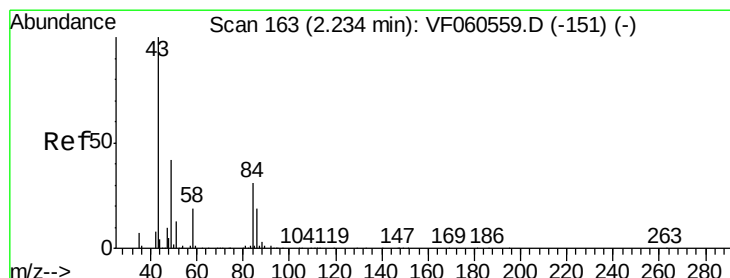
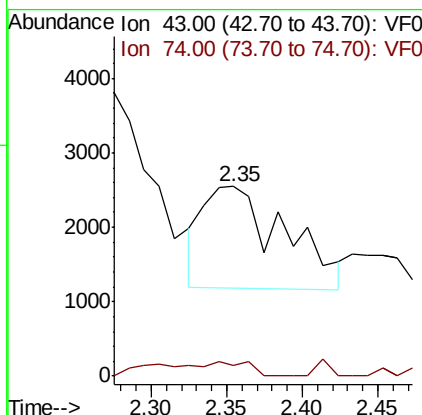
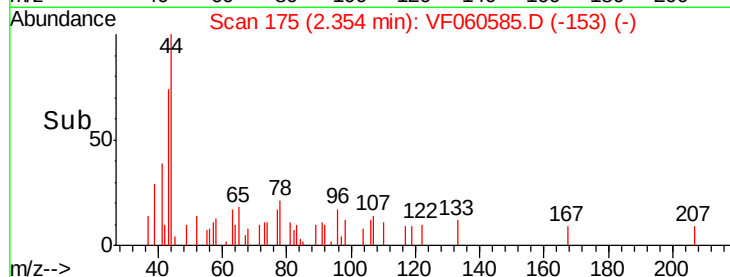
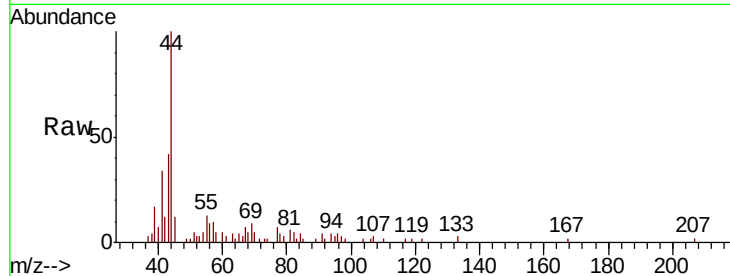




#18
Methyl Acetate
Concen: 5.993 ug/l
RT: 2.35 min Scan# 175
Delta R.T. 0.01 min
Lab File: VF060585.D
Acq: 5 Nov 2018 21:38

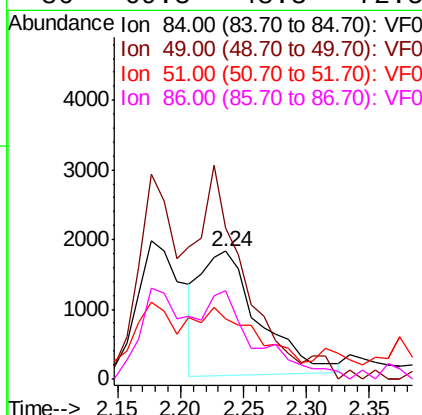
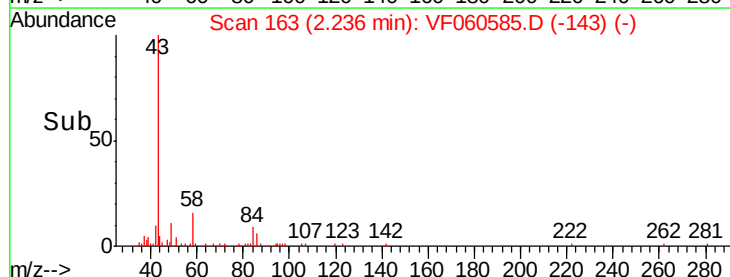
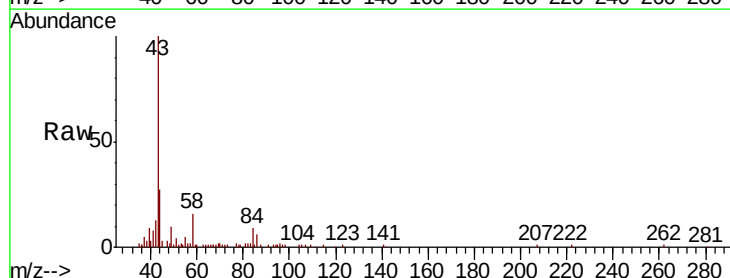
Instrument :
MSVOA_F
ClientSampled :

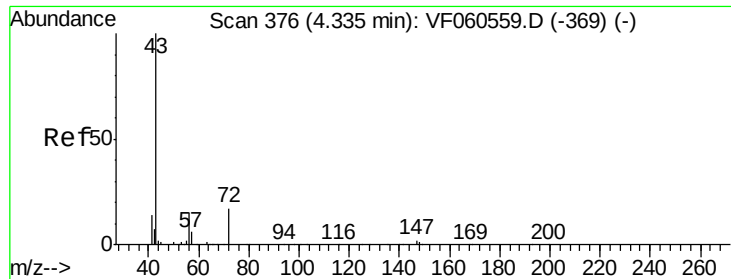
Tot Ion: 43 Resp: 5110
Ion Ratio Lower Upper
43 100
74 5.5 12.1 18.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.24 min Scan# 163
Delta R.T. 0.00 min
Lab File: VF060585.D
Acq: 5 Nov 2018 21:38

Tgt Ion: 84 Resp: 5728
Ion Ratio Lower Upper
84 100
49 118.1 109.9 164.9
51 46.8 35.8 53.8
86 69.3 48.3 72.5





#25

2-Butanone

Concen: Below Cal

RT: 4.34 min Scan# 376

Delta R.T. 0.00 min

Lab File: VF060585.D

Acq: 5 Nov 2018 21:38

Instrument :

MSVOA_F

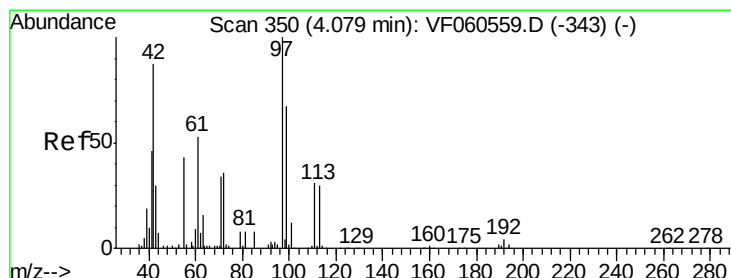
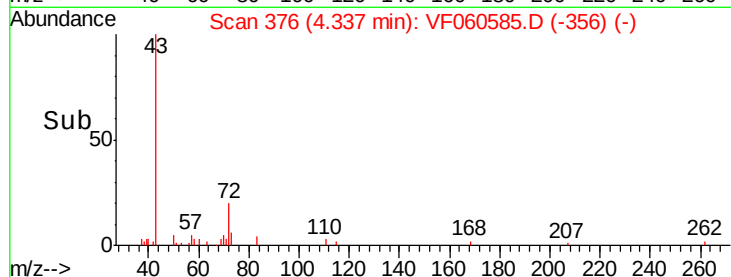
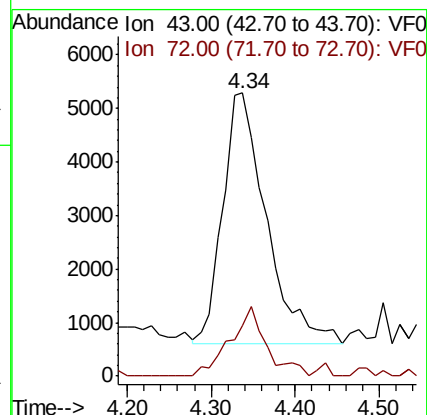
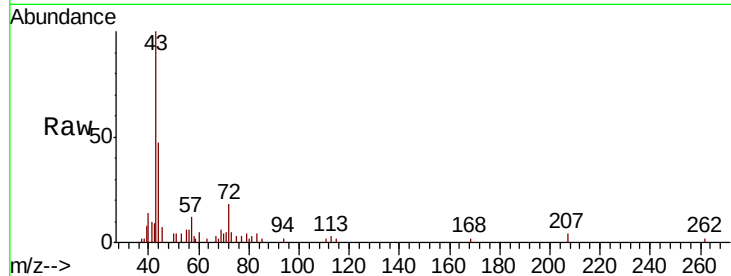
ClientSampleId :

Tot Ion: 43 Resp: 16844

Ion Ratio Lower Upper

43 100

72 18.0 16.2 24.2



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.08 min Scan# 350

Delta R.T. 0.00 min

Lab File: VF060585.D

Acq: 5 Nov 2018 21:38

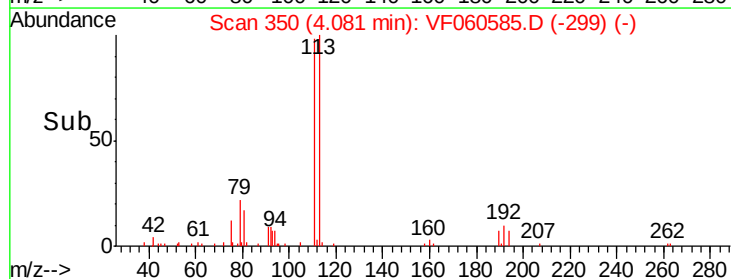
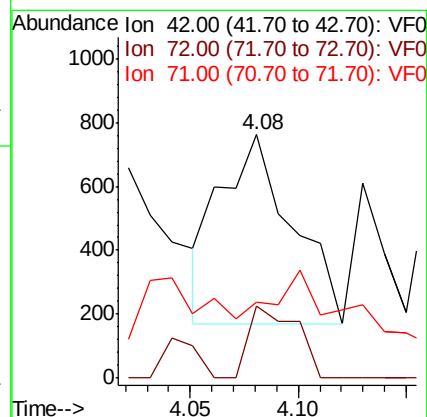
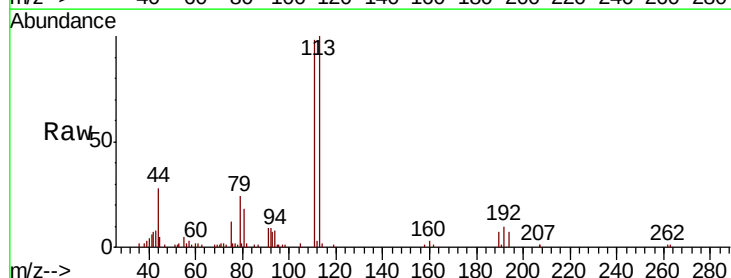
Tgt Ion: 42 Resp: 1371

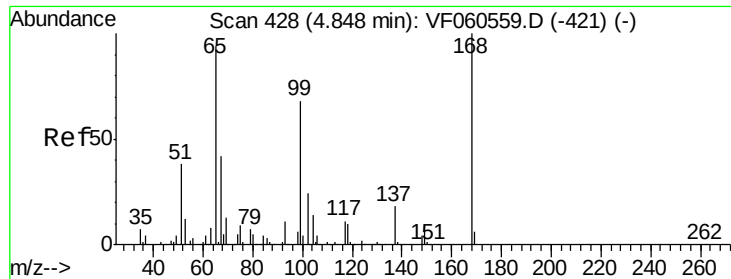
Ion Ratio Lower Upper

42 100

72 25.0 31.4 47.0#

71 51.2 31.8 47.6#

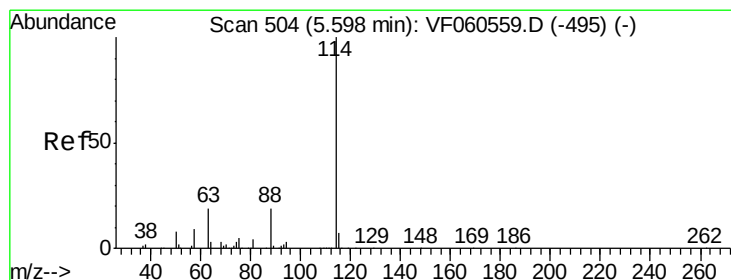
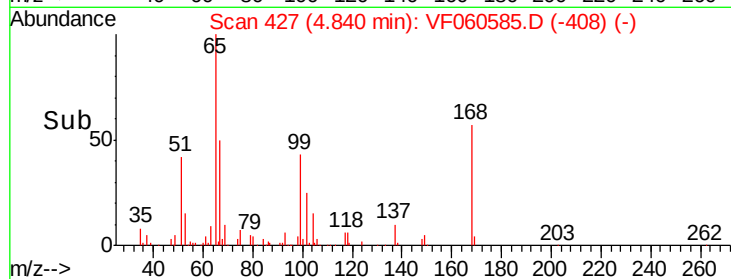
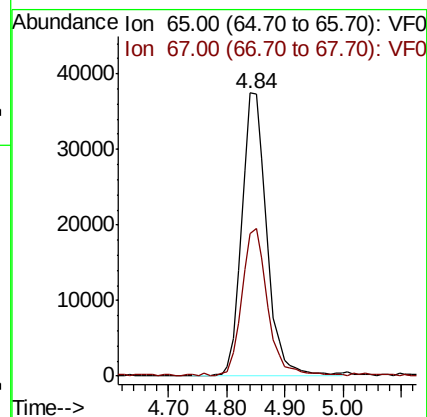
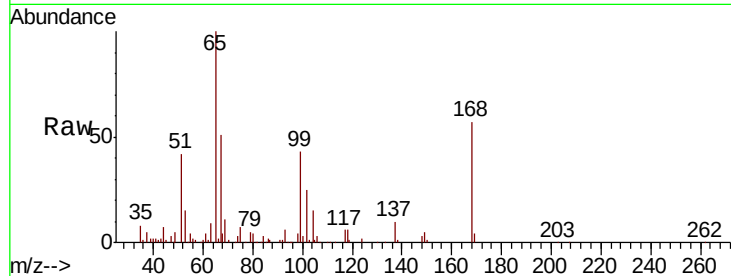




#33
 1,2-Dichloroethane-d4
 Concen: 44.737 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.01 min
 Lab File: VF060585.D
 Acq: 5 Nov 2018 21:38

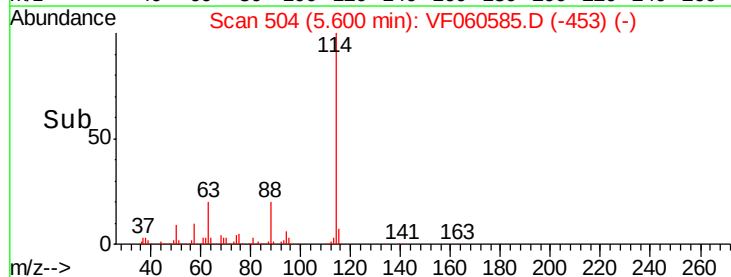
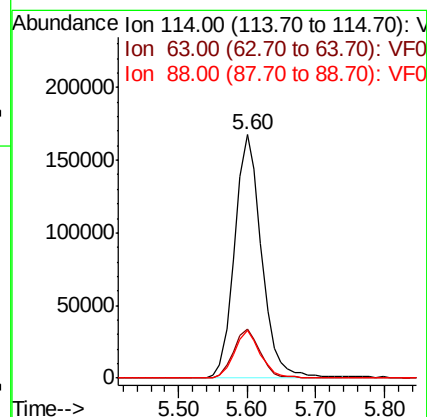
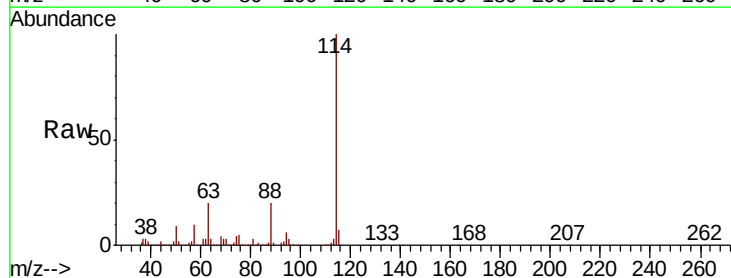
Instrument :
 MSVOA_F
 ClientSampled :

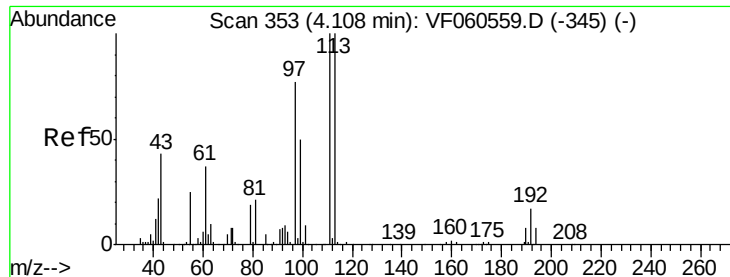
Tot Ion: 65 Resp: 112186
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 101.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. 0.00 min
 Lab File: VF060585.D
 Acq: 5 Nov 2018 21:38

Tgt Ion: 114 Resp: 454362
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 39.0
 88 19.6 0.0 38.2

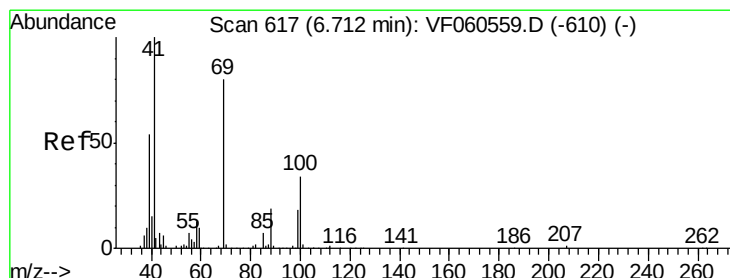
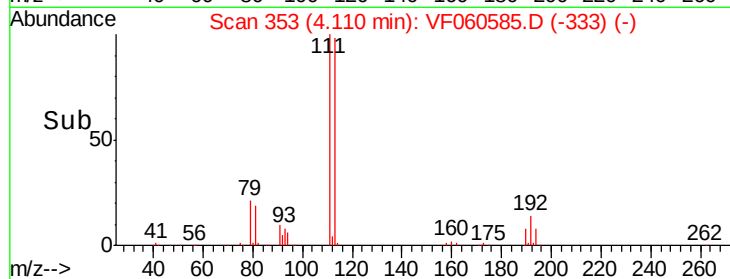
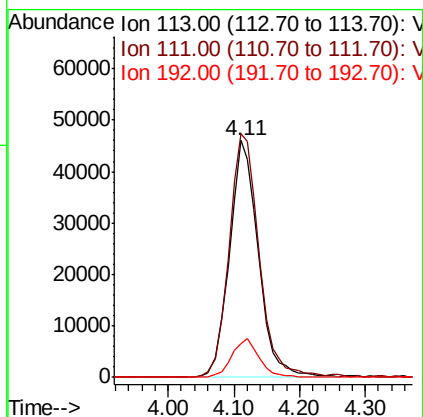
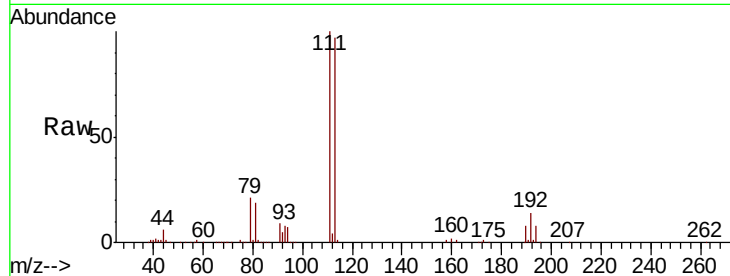




#35
 Dibromofluoromethane
 Concen: 40.489 ug/l
 RT: 4.11 min Scan# 353
 Delta R.T. 0.00 min
 Lab File: VF060585.D
 Acq: 5 Nov 2018 21:38

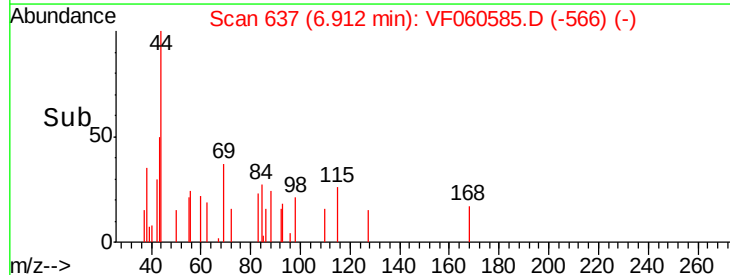
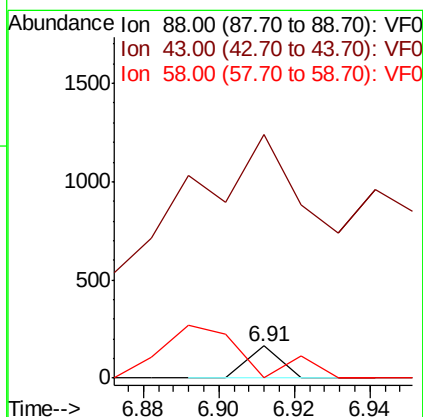
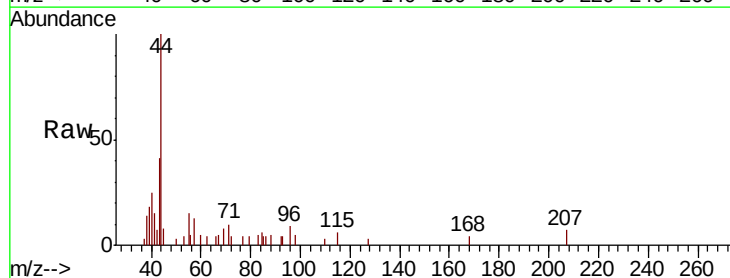
Instrument :
 MSVOA_F
 ClientSampleId :

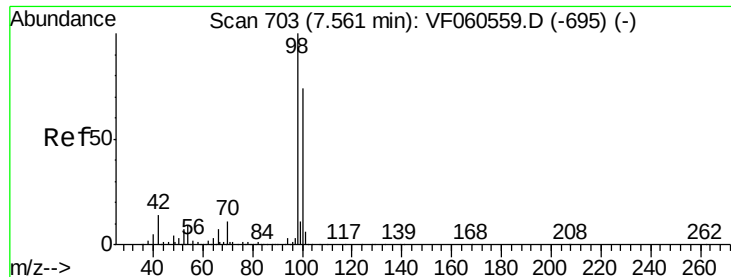
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	79.9	119.9
192	14.3	13.3	19.9



#49
 1,4-Dioxane
 Concen: 4.857 ug/l
 RT: 6.91 min Scan# 637
 Delta R.T. 0.20 min
 Lab File: VF060585.D
 Acq: 5 Nov 2018 21:38

Tgt Ion	Ratio	Lower	Upper
88	100		
43	755.5	61.2	91.8#
58	0.0	56.9	85.3#

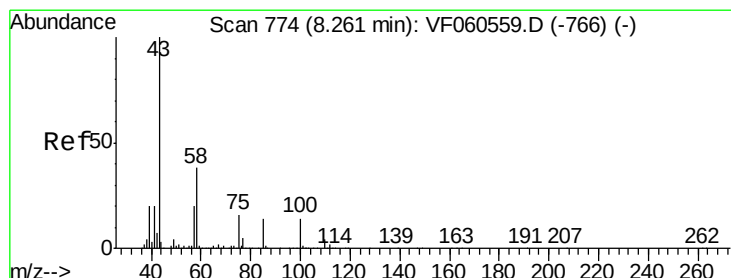
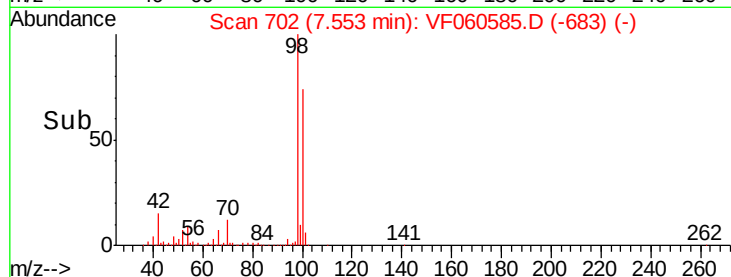
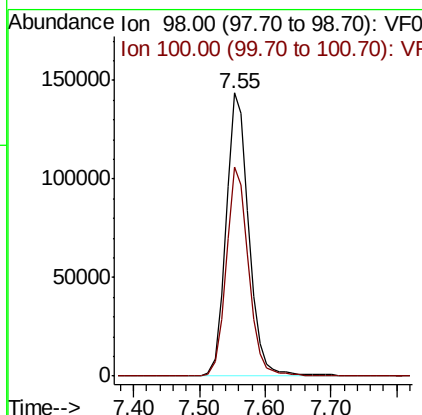
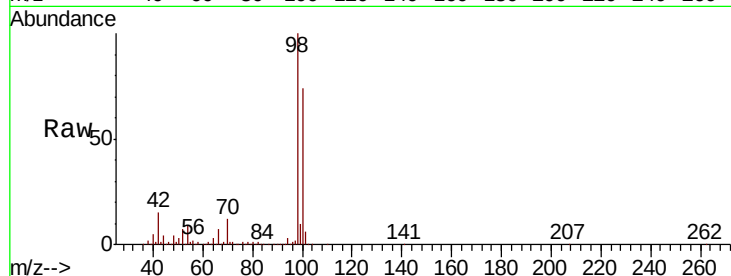




#50
Toluene-d8
Concen: 33.415 ug/l
RT: 7.55 min Scan# 702
Delta R.T. -0.01 min
Lab File: VF060585.D
Acq: 5 Nov 2018 21:38

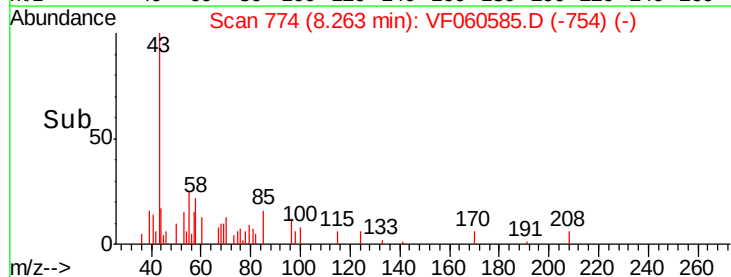
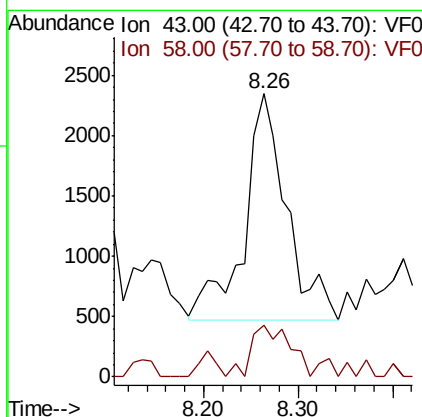
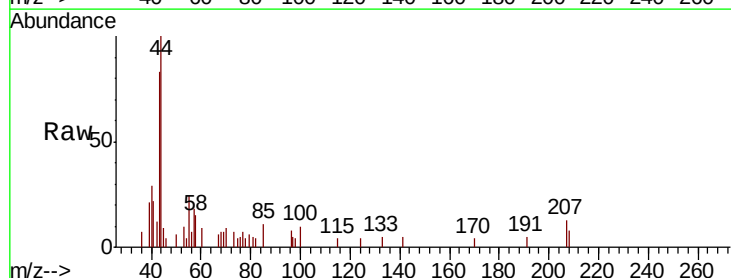
Instrument :
MSVOA_F
ClientSampled :

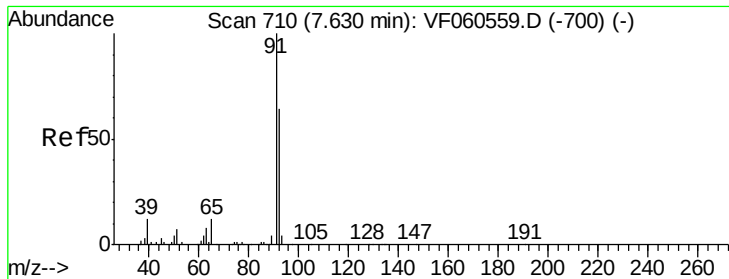
Tot Ion: 98 Resp: 347473
Ion Ratio Lower Upper
98 100
100 74.1 59.4 89.2



#51
4-Methyl-2-Pentanone
Concen: 2.860 ug/l
RT: 8.26 min Scan# 774
Delta R.T. 0.00 min
Lab File: VF060585.D
Acq: 5 Nov 2018 21:38

Tgt Ion: 43 Resp: 5843
Ion Ratio Lower Upper
43 100
58 18.3 30.1 45.1#





#52

Toluene

Concen: 2.942 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF060585.D

Acq: 5 Nov 2018 21:38

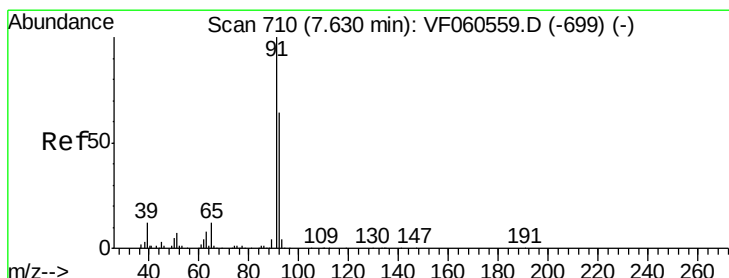
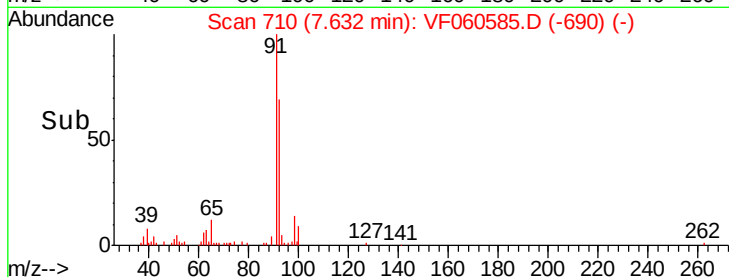
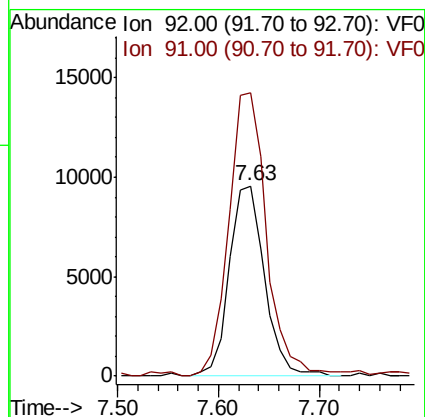
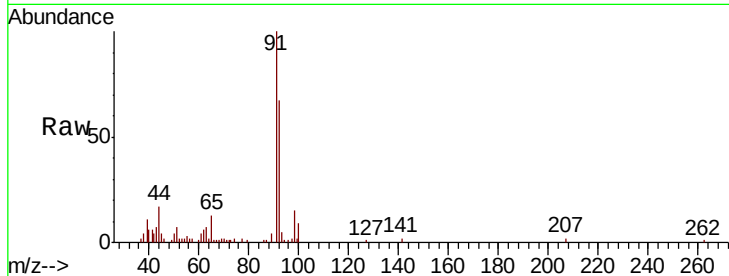
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 92 Resp: 23276

Ion Ratio Lower Upper

92 100

91 148.9 124.5 186.7



#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 7.62 min Scan# 709

Delta R.T. -0.01 min

Lab File: VF060585.D

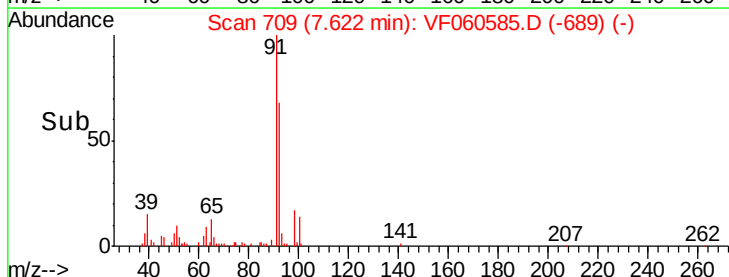
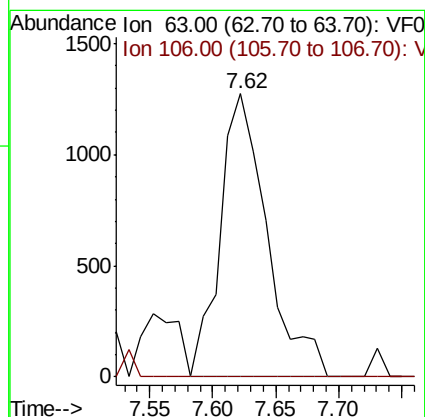
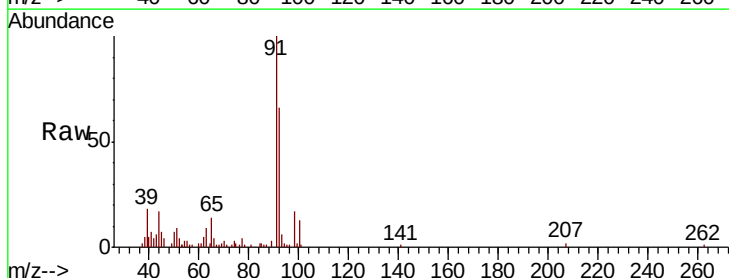
Acq: 5 Nov 2018 21:38

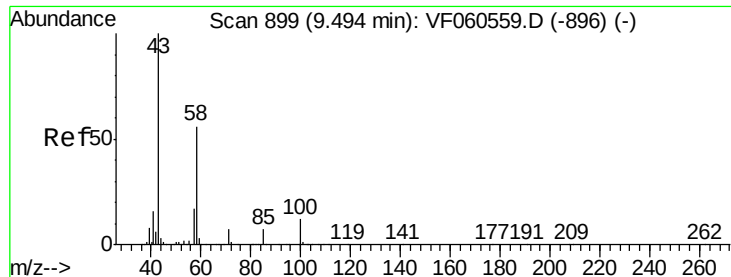
Tgt Ion: 63 Resp: 3290

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

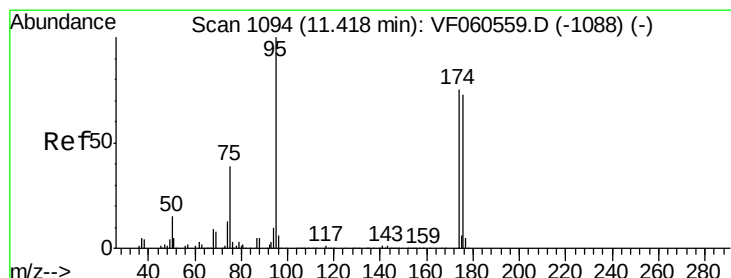
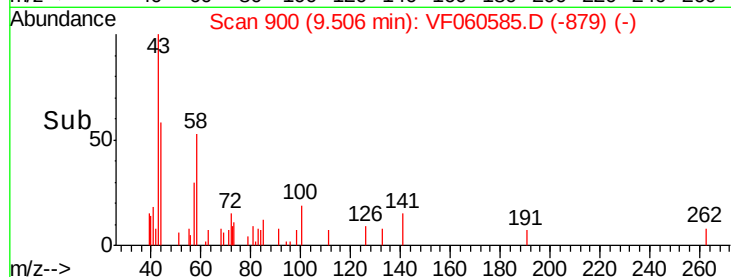
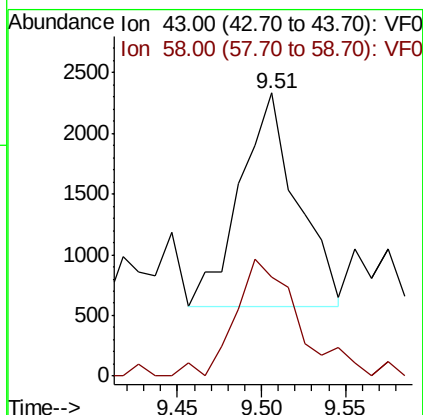
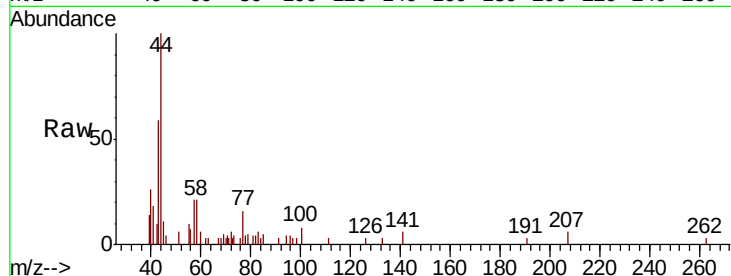




#59
2-Hexanone
Concen: Below Cal
RT: 9.51 min Scan# 900
Delta R.T. 0.01 min
Lab File: VF060585.D
Acq: 5 Nov 2018 21:38

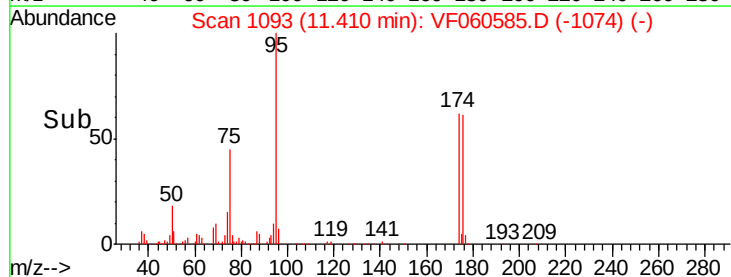
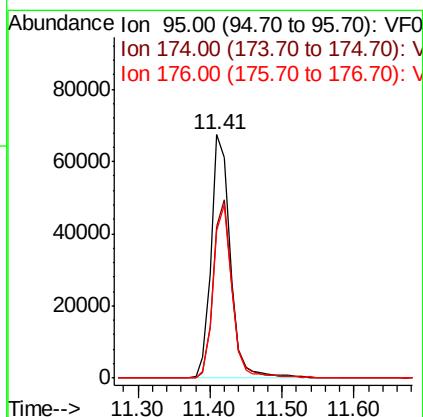
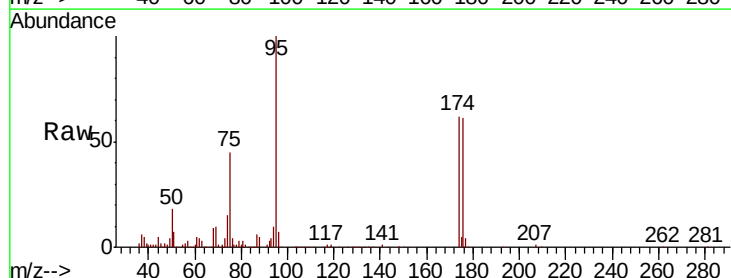
Instrument :
MSVOA_F
ClientSampled :

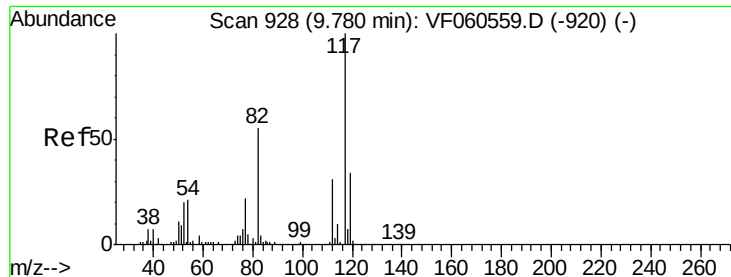
Tot Ion: 43 Resp: 4144
Ion Ratio Lower Upper
43 100
58 35.2 26.1 78.3



#62
4-Bromofluorobenzene
Concen: 27.243 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VF060585.D
Acq: 5 Nov 2018 21:38

Tgt Ion: 95 Resp: 123918
Ion Ratio Lower Upper
95 100
174 62.5 0.0 149.0
176 60.6 0.0 145.6

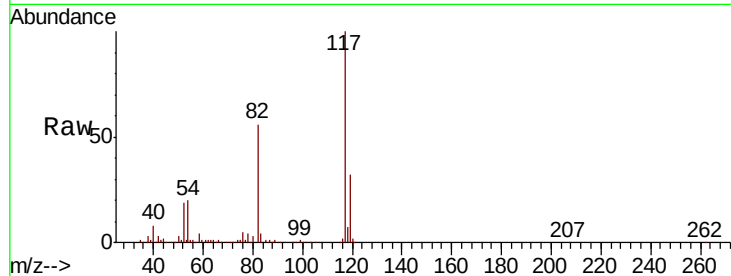




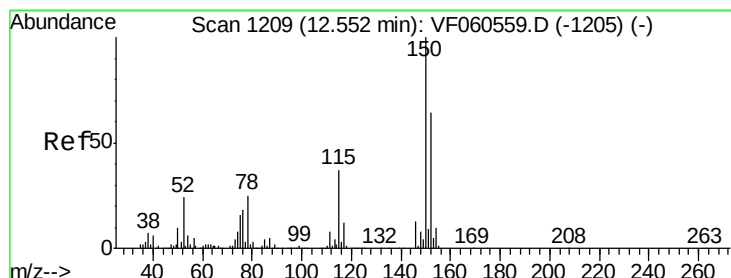
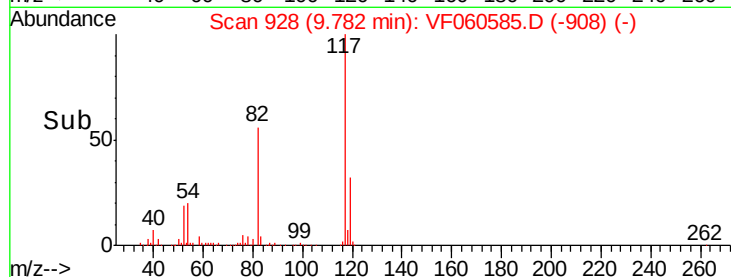
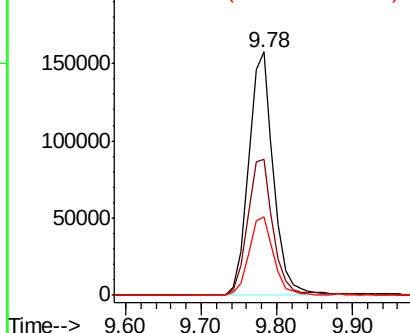
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. 0.00 min
Lab File: VF060585.D
Acq: 5 Nov 2018 21:38

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.9	43.9	65.9
119	32.1	27.4	41.0

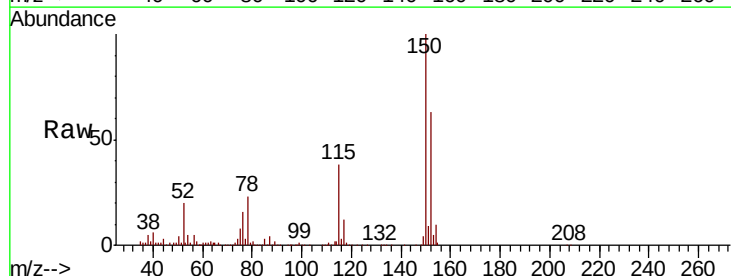


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

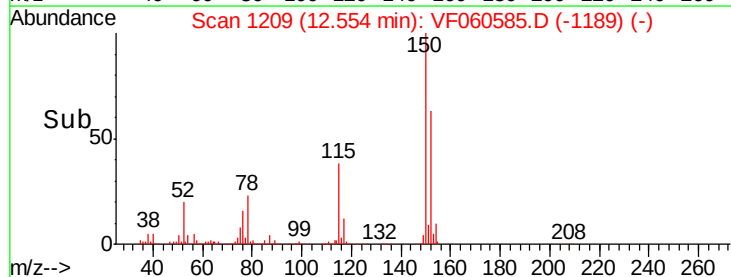
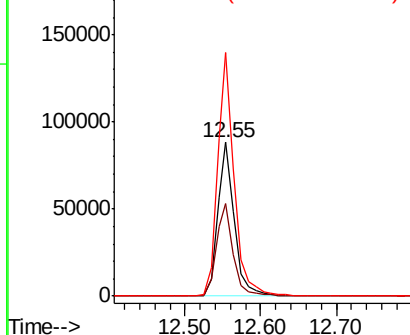


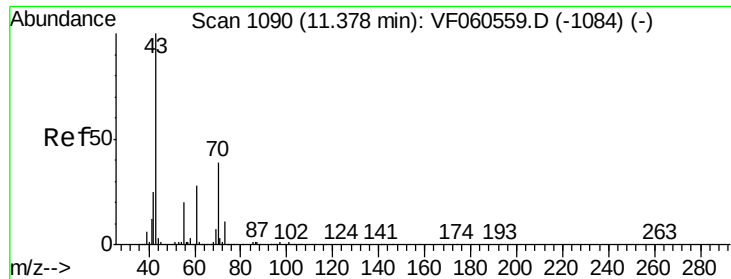
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. 0.00 min
Lab File: VF060585.D
Acq: 5 Nov 2018 21:38

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.7	29.6	88.8
150	158.2	0.0	315.6



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#74
N-amvl acetate
Concen: Below Cal
RT: 11.39 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VF060585.D
Acq: 5 Nov 2018 21:38

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 1356
Ion Ratio Lower Upper
43 100
70 21.3 30.9 46.3#
55 32.9 16.6 24.8#
61 26.3 22.0 33.0

