

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110518\
 Data File : VF060583.D
 Acq On : 5 Nov 2018 20:41
 Operator : VA/AP
 Sample : J5741-27RE
 Misc : 6.51/5mL/MSVOA-F/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 06 06:57:15 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	284710	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	510360	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	443650	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	241552	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	121199	42.13	ug/l	0.00
Spiked Amount			Recovery	=	84.26%	
35) Dibromofluoromethane	4.11	113	155039	39.32	ug/l	0.00
Spiked Amount			Recovery	=	78.64%	
50) Toluene-d8	7.55	98	400947	34.33	ug/l	0.00
Spiked Amount			Recovery	=	68.66%	
62) 4-Bromofluorobenzene	11.41	95	190229	37.23	ug/l	0.00
Spiked Amount			Recovery	=	74.46%	

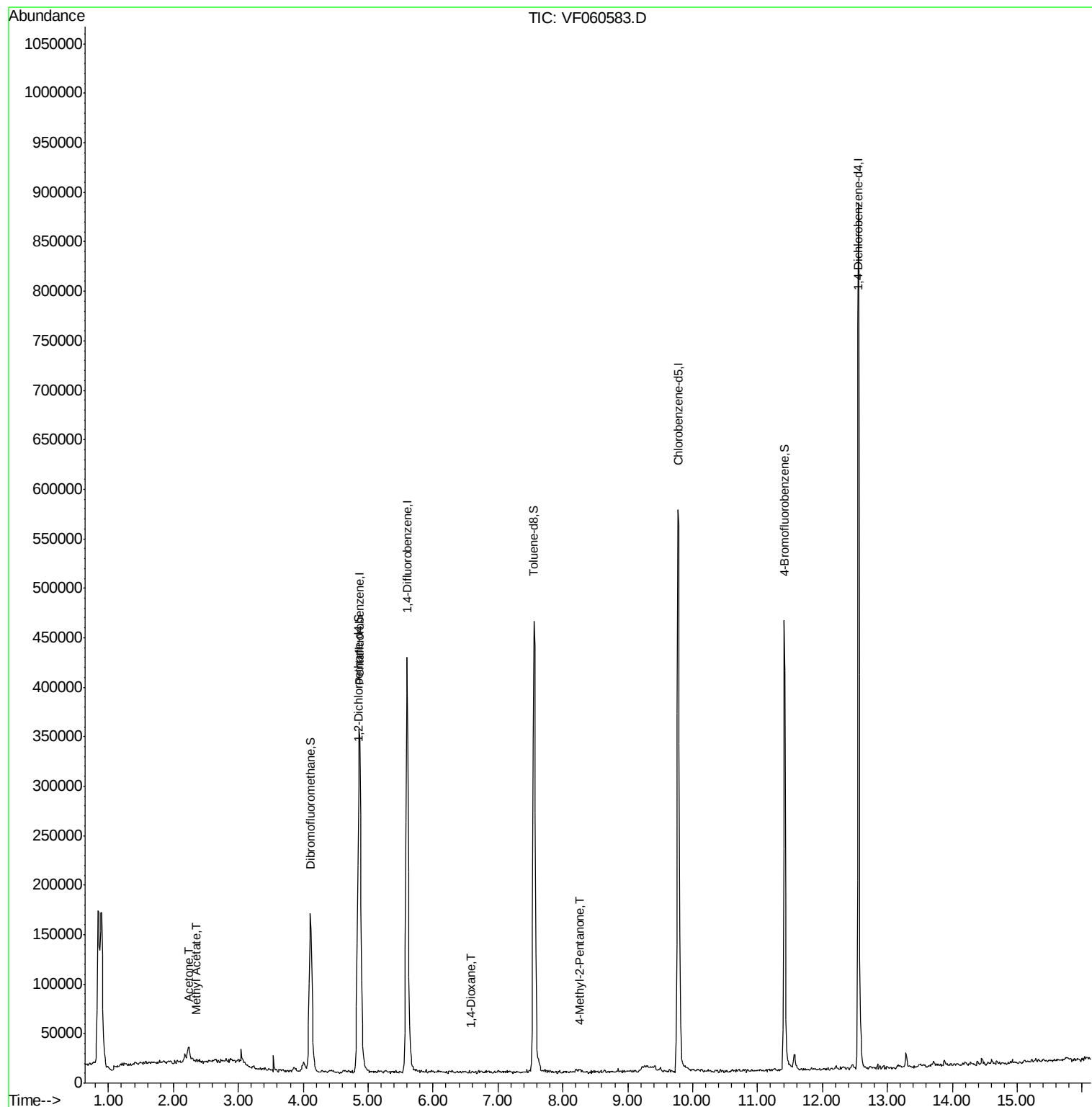
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.97	85	862	Below Cal	#	41
6) Chloroethane	1.44	64	82	Below Cal	#	1
11) Tert butyl alcohol	2.56	59	206	Below Cal	#	1
13) Acrolein	2.01	56	311	Below Cal	#	1
16) Acetone	2.24	43	17142	25.289	ug/l	98
18) Methyl Acetate	2.36	43	1898	2.265	ug/l #	78
20) Methylene Chloride	2.22	84	3454	Below Cal		85
25) 2-Butanone	4.34	43	3706	Below Cal		95
29) Tetrahydrofuran	4.08	42	1570	Below Cal	#	47
49) 1,4-Dioxane	6.58	88	63	2.808	ug/l #	1
51) 4-Methyl-2-Pentanone	8.26	43	3132	1.365	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.62	63	727	Below Cal		100
59) 2-Hexanone	9.51	43	4326	Below Cal		76
74) N-amyl acetate	11.38	43	1468	Below Cal	#	73
89) n-Butylbenzene	12.84	91	1642	Below Cal		92

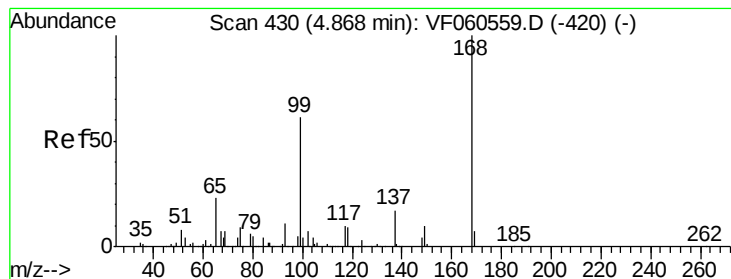
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VF060583.D

Acq: 5 Nov 2018 20:41

Instrument :

MSVOA_F

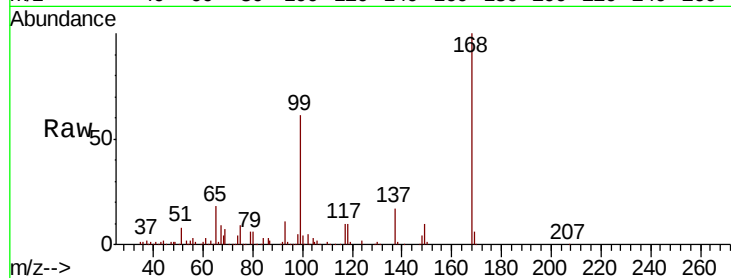
ClientSampleId :

Tot Ion:168 Resp: 284710

Ion Ratio Lower Upper

168 100

99 61.0 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

100000

80000

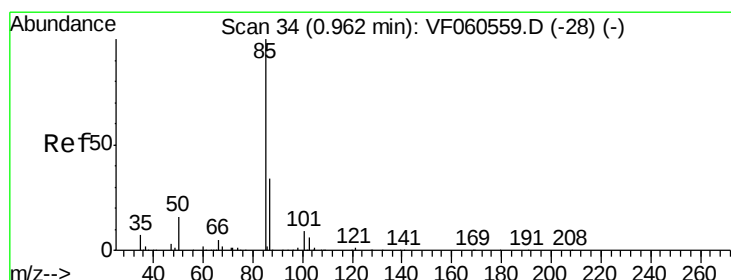
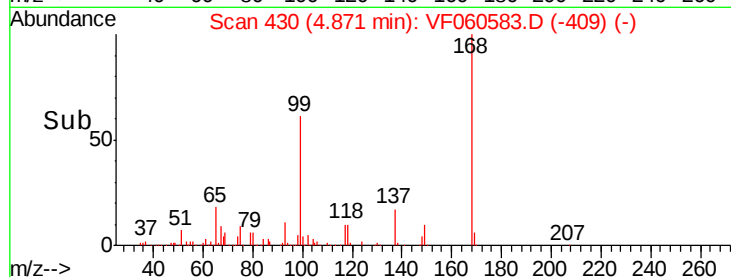
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.97 min Scan# 35

Delta R.T. 0.01 min

Lab File: VF060583.D

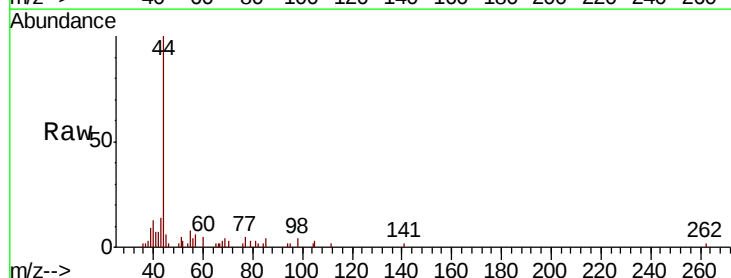
Acq: 5 Nov 2018 20:41

Tgt Ion: 85 Resp: 862

Ion Ratio Lower Upper

85 100

87 0.0 16.9 50.7#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

250

200

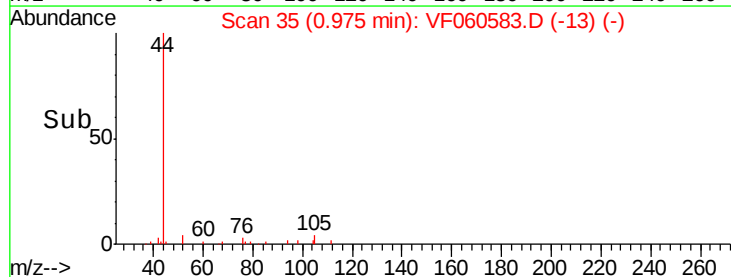
150

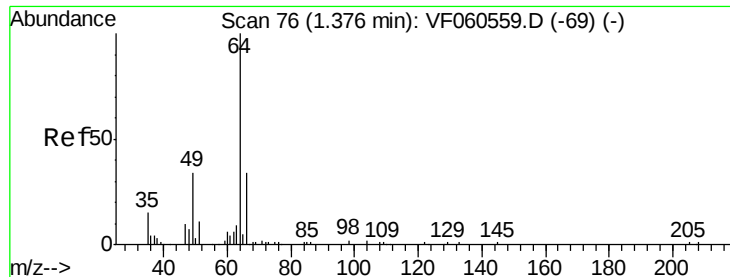
100

50

0

Time--> 0.90 0.95 1.00





#6

Chloroethane

Concen: Below Cal

RT: 1.44 min Scan# 82

Delta R.T. 0.06 min

Lab File: VF060583.D

Acq: 5 Nov 2018 20:41

Instrument :

MSVOA_F

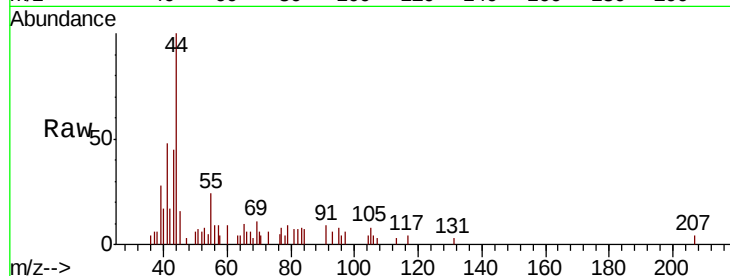
ClientSampled :

Tot Ion: 64 Resp: 82

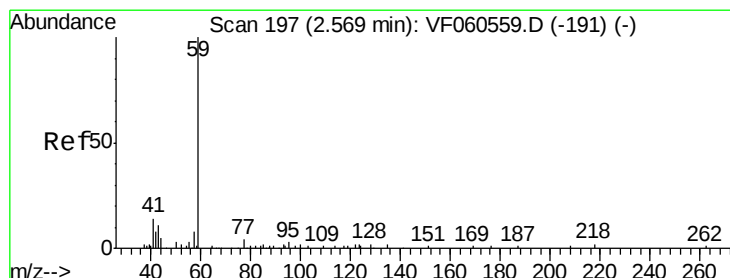
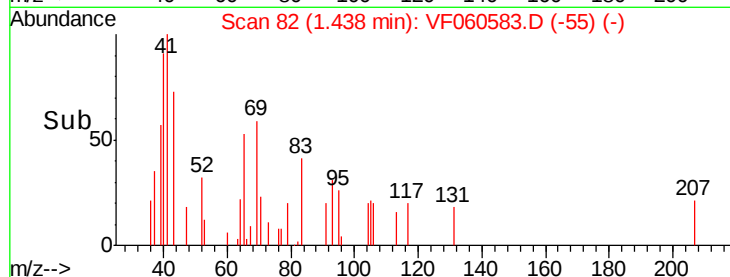
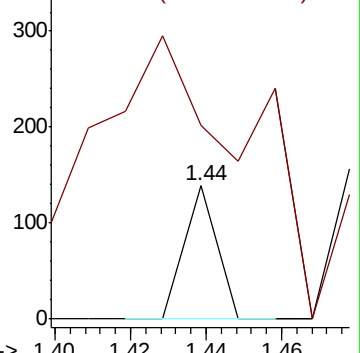
Ion Ratio Lower Upper

64 100

66 145.3 27.8 41.8#



Abundance Ion 64.00 (63.70 to 64.70): VF0



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.56 min Scan# 196

Delta R.T. -0.01 min

Lab File: VF060583.D

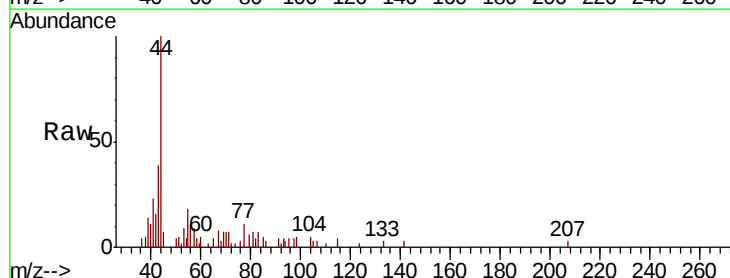
Acq: 5 Nov 2018 20:41

Tgt Ion: 59 Resp: 206

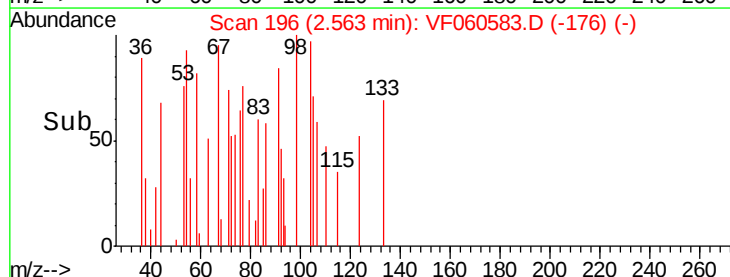
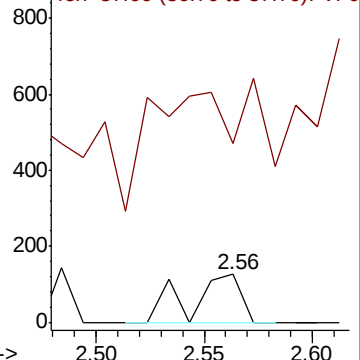
Ion Ratio Lower Upper

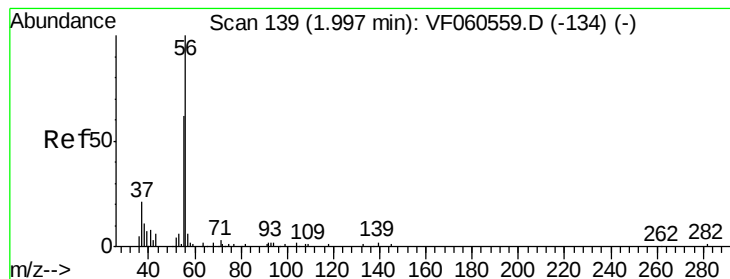
59 100

57 377.6 19.0 28.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 2.01 min Scan# 140

Delta R.T. 0.01 min

Lab File: VF060583.D

Acq: 5 Nov 2018 20:41

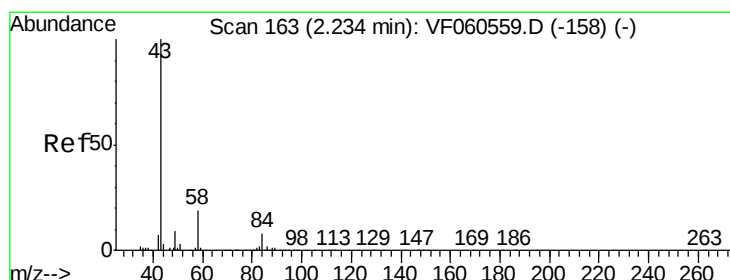
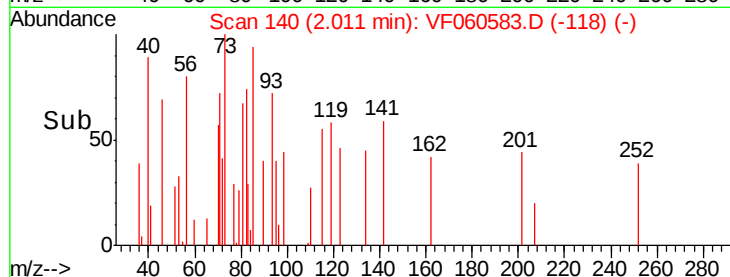
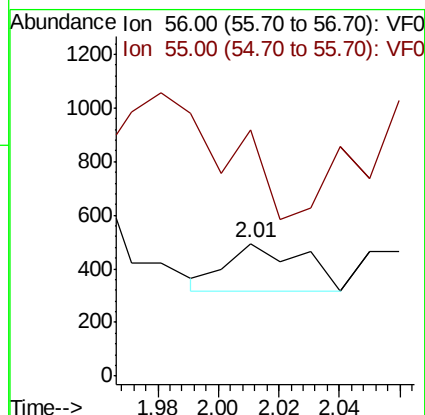
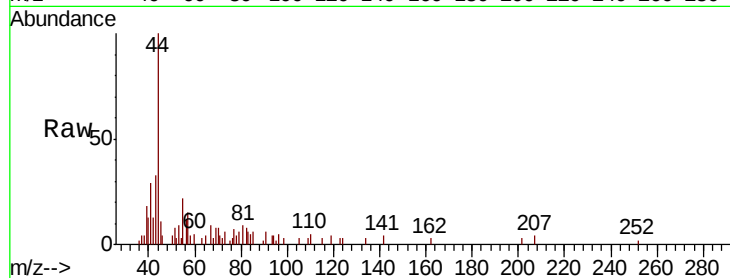
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 311

Ion Ratio Lower Upper

56 100

55 186.2 61.8 92.6#



#16

Acetone

Concen: 25.289 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.00 min

Lab File: VF060583.D

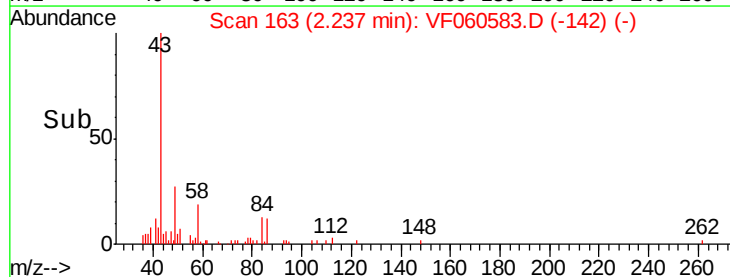
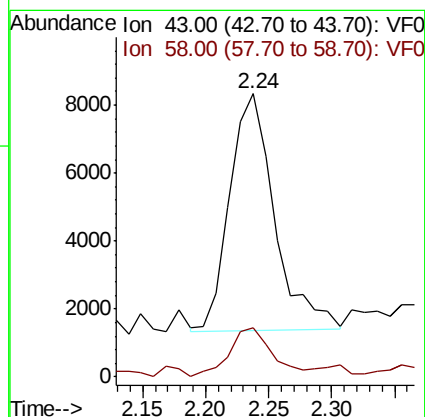
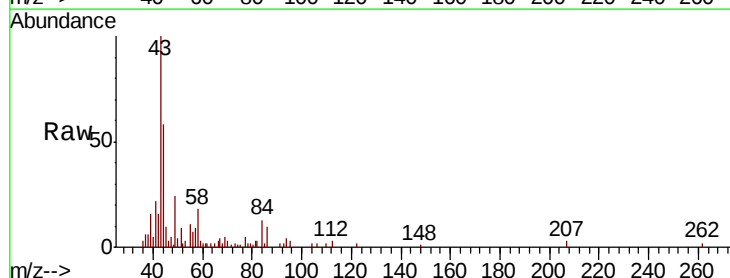
Acq: 5 Nov 2018 20:41

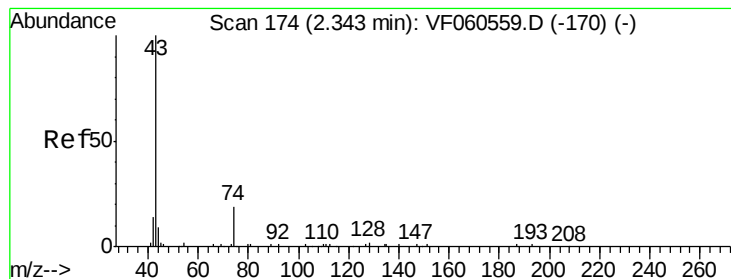
Tgt Ion: 43 Resp: 17142

Ion Ratio Lower Upper

43 100

58 17.5 14.6 22.0





#18

Methyl Acetate

Concen: 2.265 ug/l

RT: 2.36 min Scan# 175

Delta R.T. 0.01 min

Lab File: VF060583.D

Acq: 5 Nov 2018 20:41

Instrument :

MSVOA_F

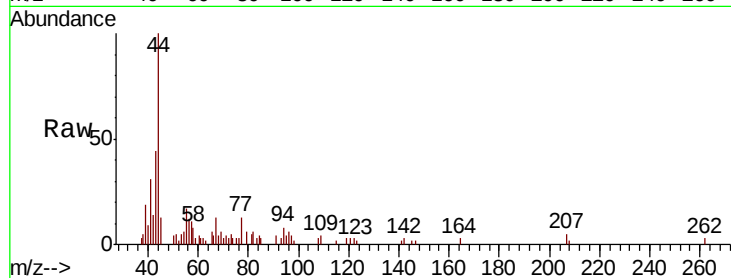
ClientSampleId :

Tot Ion: 43 Resp: 1898

Ion Ratio Lower Upper

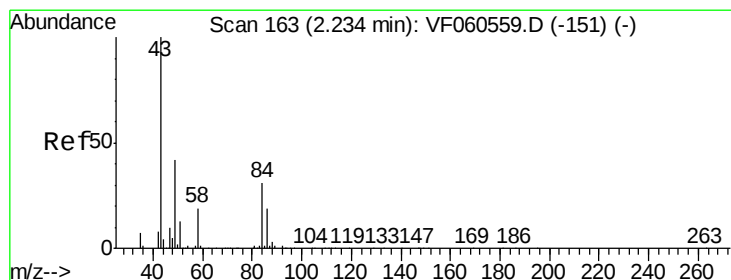
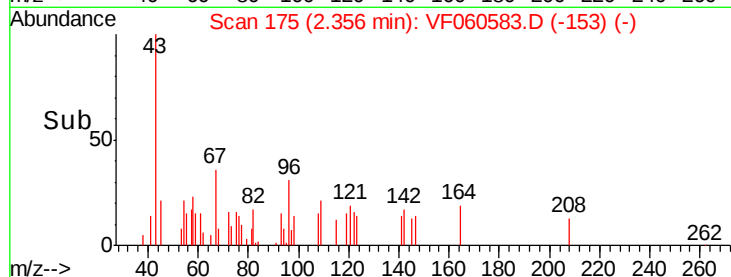
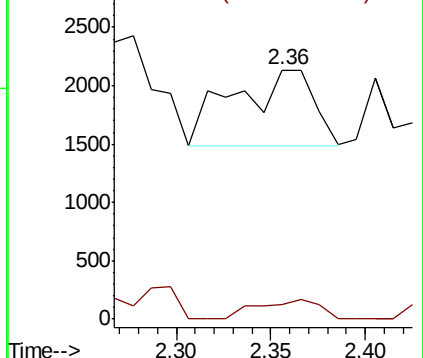
43 100

74 5.9 12.1 18.1#



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: 2.22 min Scan# 161

Delta R.T. -0.02 min

Lab File: VF060583.D

Acq: 5 Nov 2018 20:41

Tgt Ion: 84 Resp: 3454

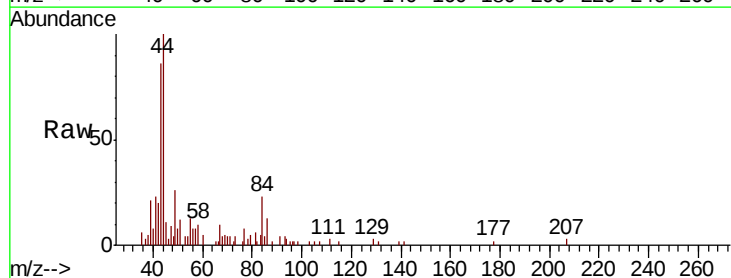
Ion Ratio Lower Upper

84 100

49 112.6 109.9 164.9

51 53.0 35.8 53.8

86 56.2 48.3 72.5

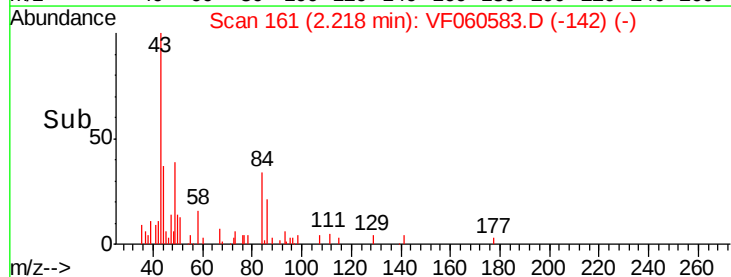
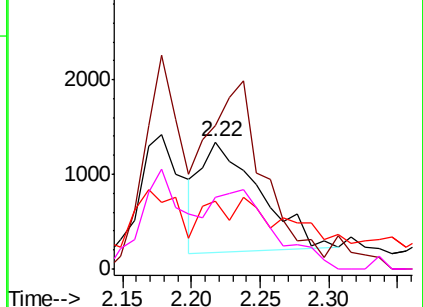


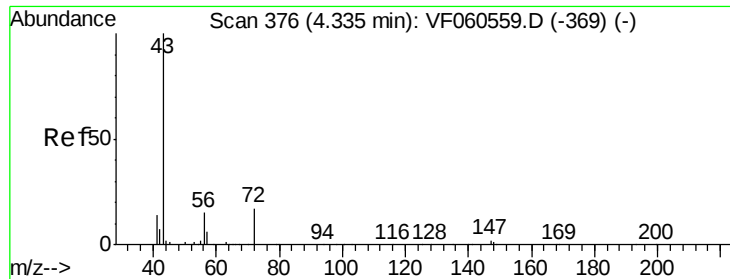
Abundance Ion 84.00 (83.70 to 84.70): VF0

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: VF060583.D

Acq: 5 Nov 2018 20:41

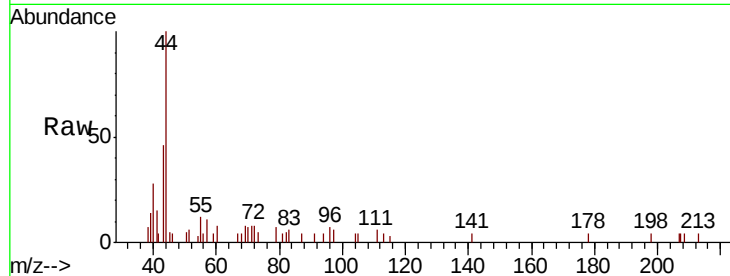
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 3706

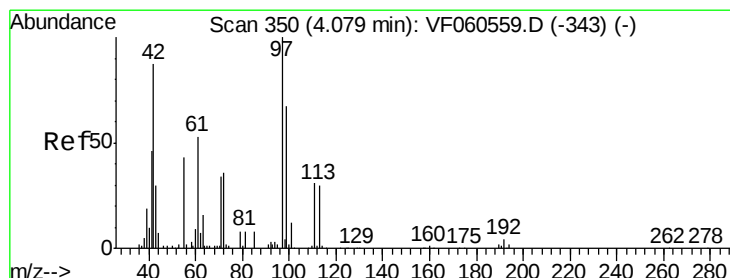
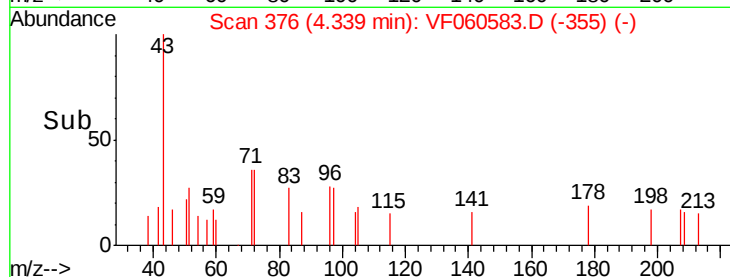
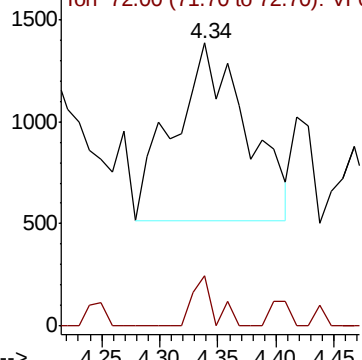
Ion Ratio Lower Upper

43 100

72 18.0 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: 4.08 min Scan# 350

Delta R.T. 0.00 min

Lab File: VF060583.D

Acq: 5 Nov 2018 20:41

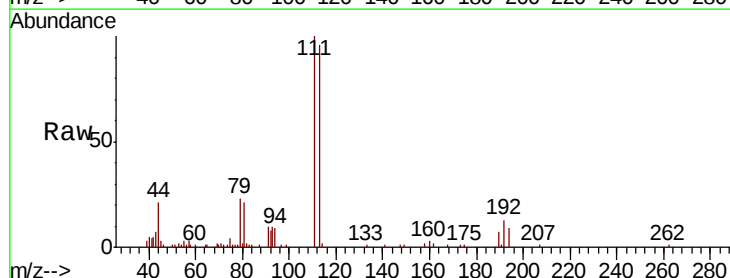
Tgt Ion: 42 Resp: 1570

Ion Ratio Lower Upper

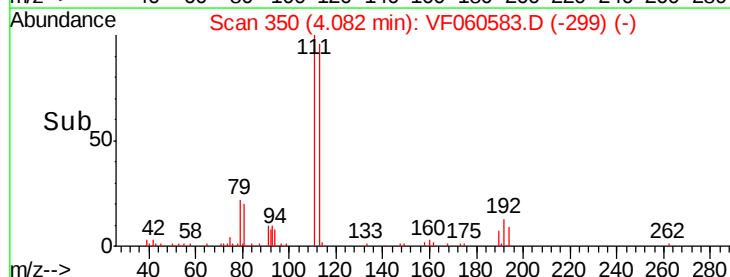
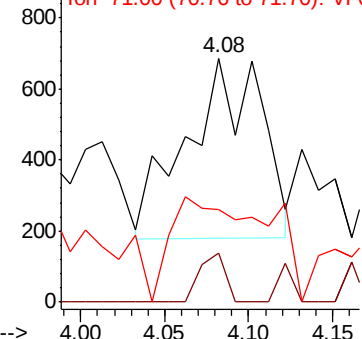
42 100

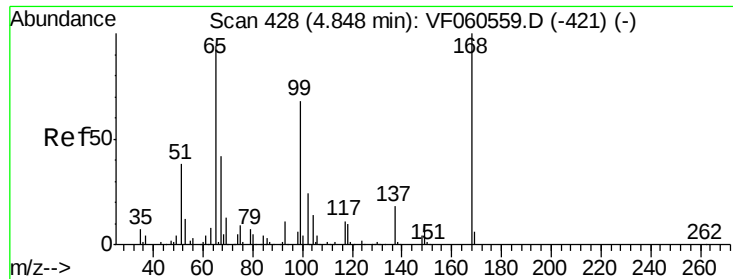
72 9.2 31.4 47.0#

71 74.3 31.8 47.6#



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

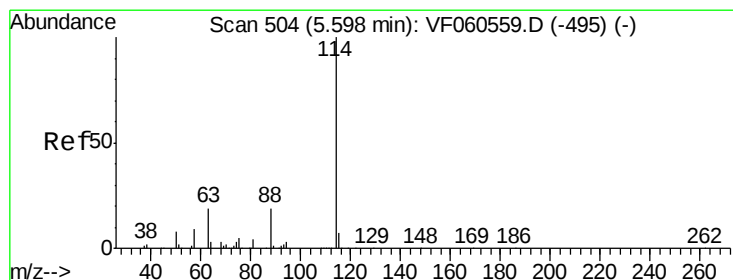
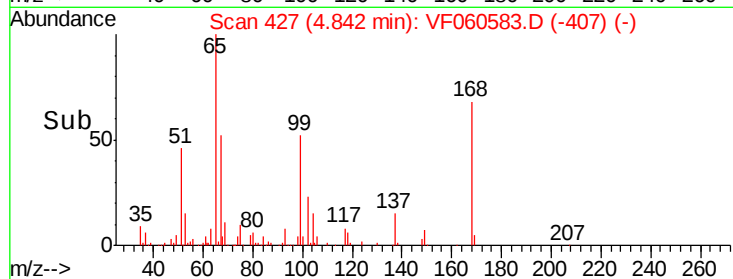
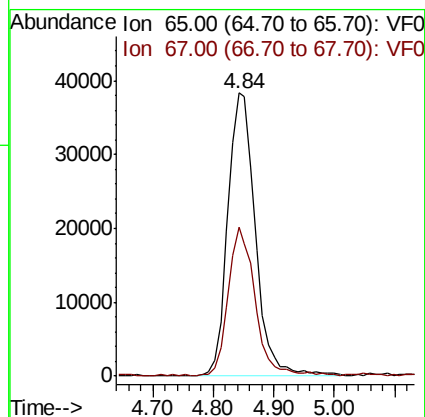
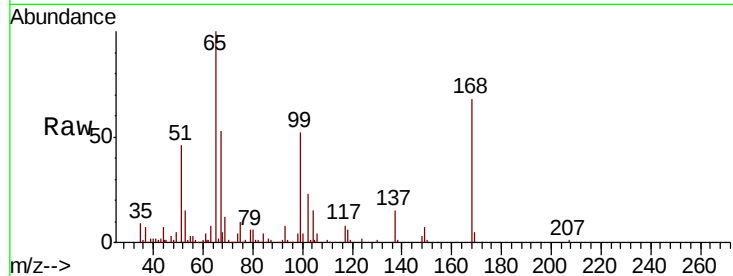




#33
 1,2-Dichloroethane-d4
 Concen: 42.132 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.01 min
 Lab File: VF060583.D
 Acq: 5 Nov 2018 20:41

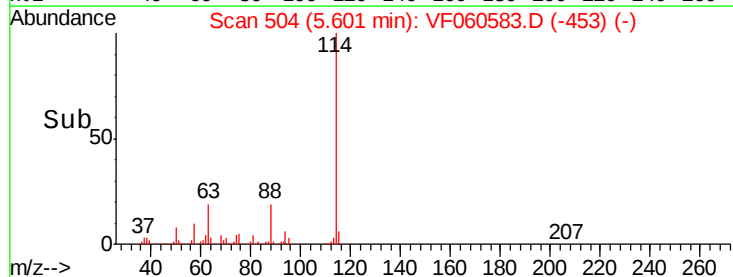
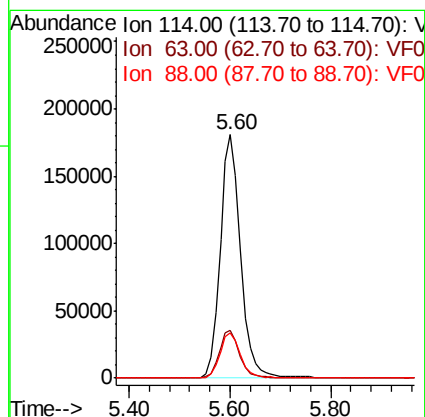
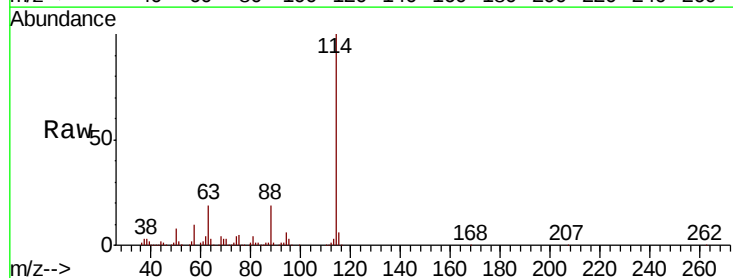
Instrument :
 MSVOA_F
 ClientSampleId :

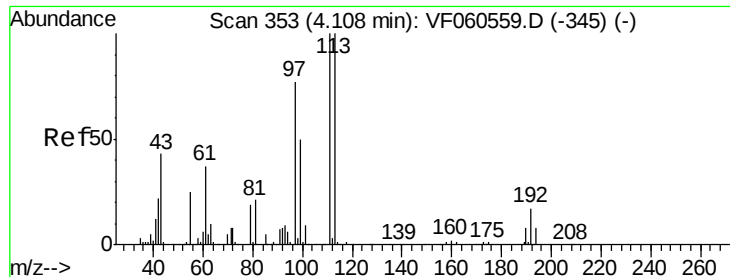
Tot Ion: 65 Resp: 121199
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 101.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. 0.00 min
 Lab File: VF060583.D
 Acq: 5 Nov 2018 20:41

Tgt Ion:114 Resp: 510360
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.0
 88 18.7 0.0 38.2





#35

Dibromofluoromethane

Concen: 39.320 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.00 min

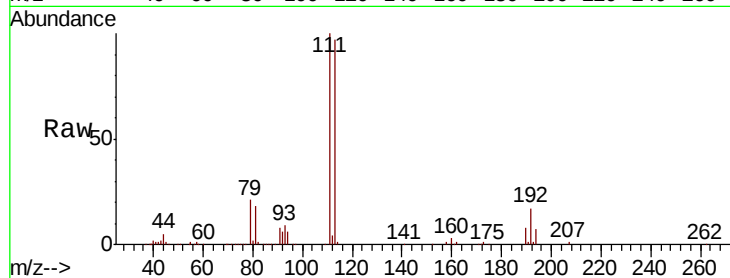
Lab File: VF060583.D

Acq: 5 Nov 2018 20:41

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:113 Resp: 155039

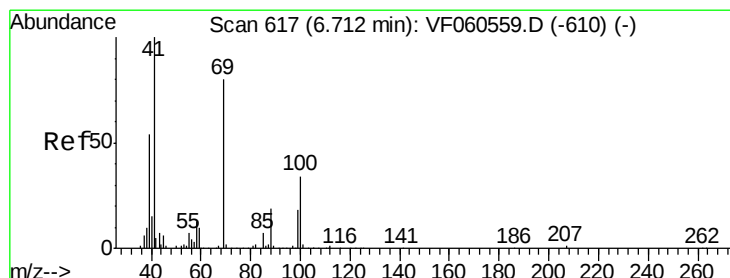
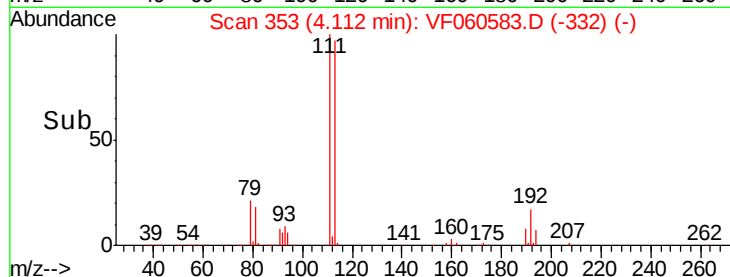
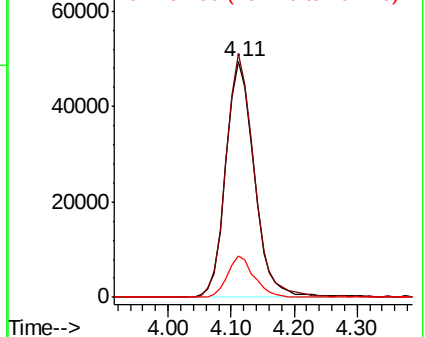
Ion	Ratio	Lower	Upper
113	100		
111	103.4	79.9	119.9
192	18.0	13.3	19.9



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: 2.808 ug/l

RT: 6.58 min Scan# 603

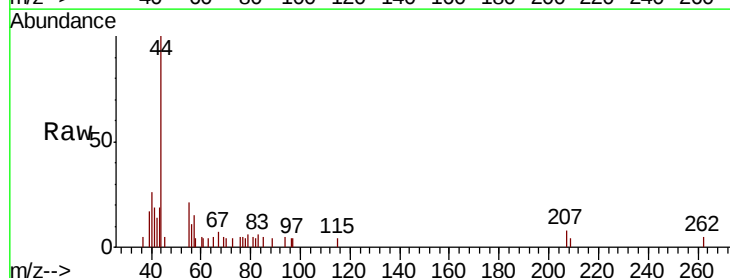
Delta R.T. -0.13 min

Lab File: VF060583.D

Acq: 5 Nov 2018 20:41

Tgt Ion: 88 Resp: 63

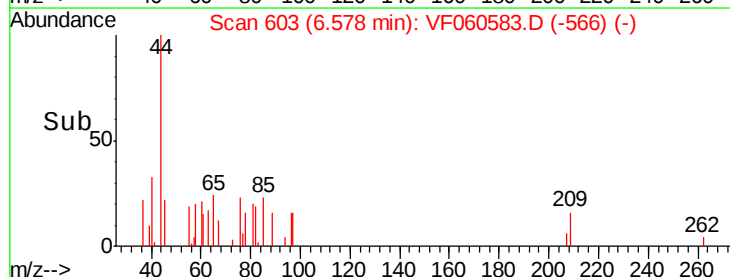
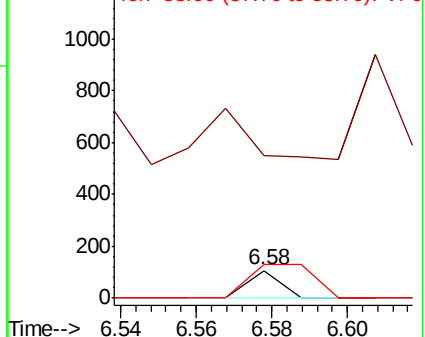
Ion	Ratio	Lower	Upper
88	100		
43	520.8	61.2	91.8#
58	122.6	56.9	85.3#

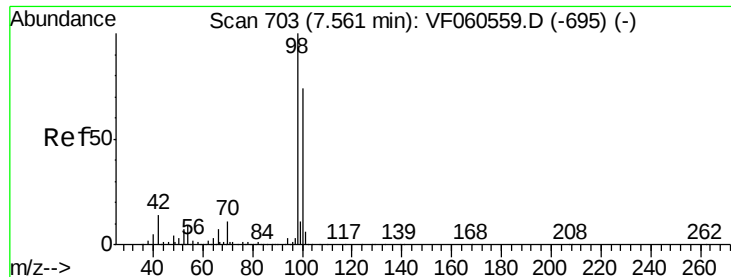


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

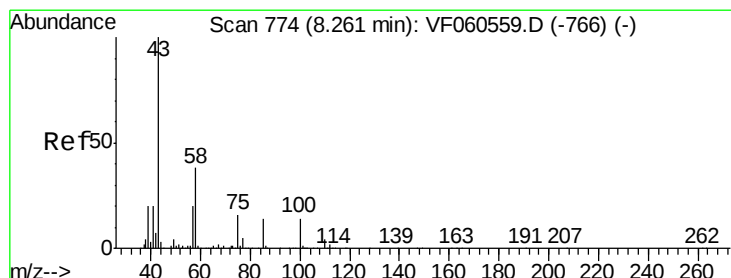
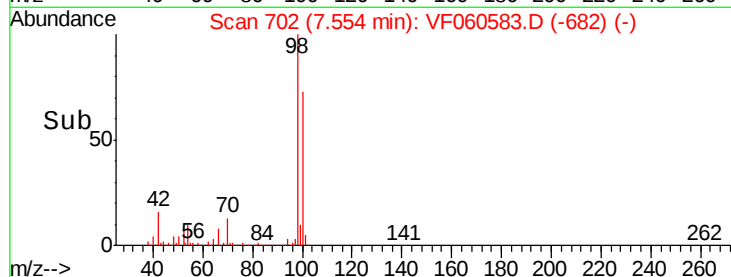
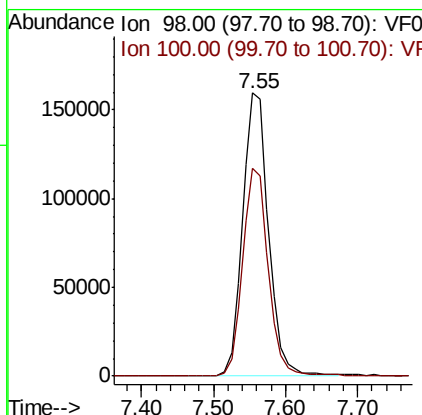
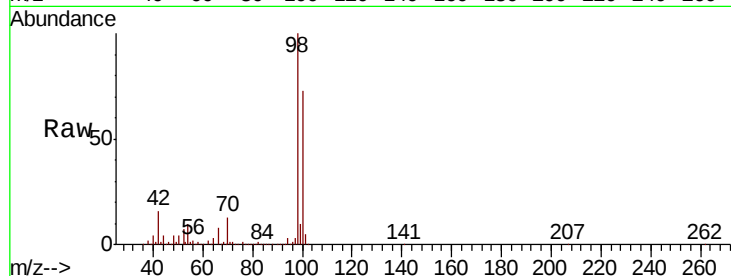




#50
Toluene-d8
Concen: 34.326 ug/l
RT: 7.55 min Scan# 702
Delta R.T. -0.01 min
Lab File: VF060583.D
Acq: 5 Nov 2018 20:41

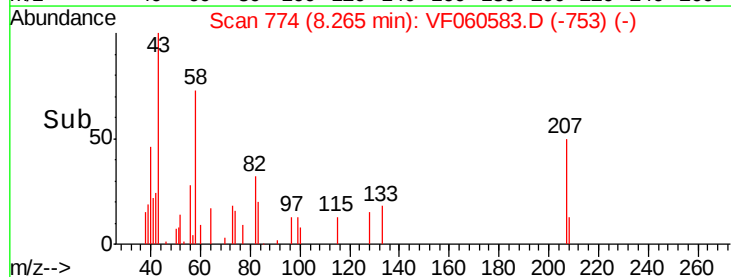
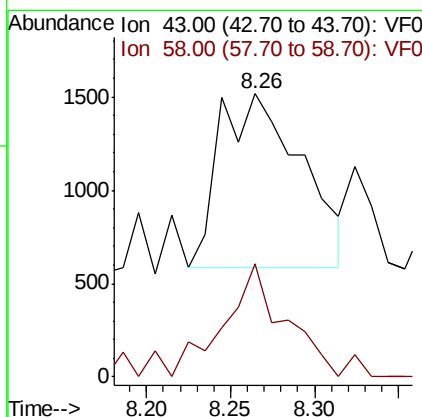
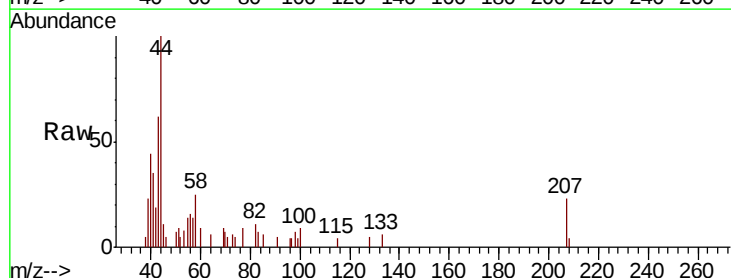
Instrument :
MSVOA_F
ClientSampled :

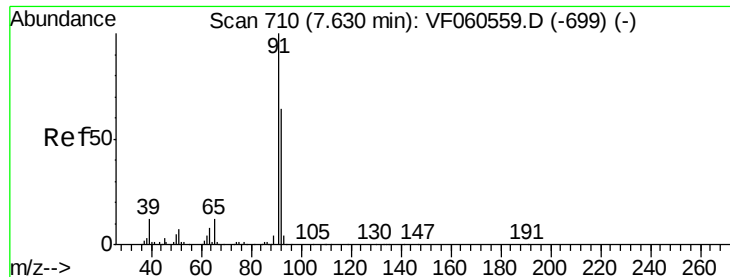
Tot Ion: 98 Resp: 400947
Ion Ratio Lower Upper
98 100
100 73.2 59.4 89.2



#51
4-Methyl-2-Pentanone
Concen: 1.365 ug/l
RT: 8.26 min Scan# 774
Delta R.T. 0.00 min
Lab File: VF060583.D
Acq: 5 Nov 2018 20:41

Tgt Ion: 43 Resp: 3132
Ion Ratio Lower Upper
43 100
58 40.1 30.1 45.1

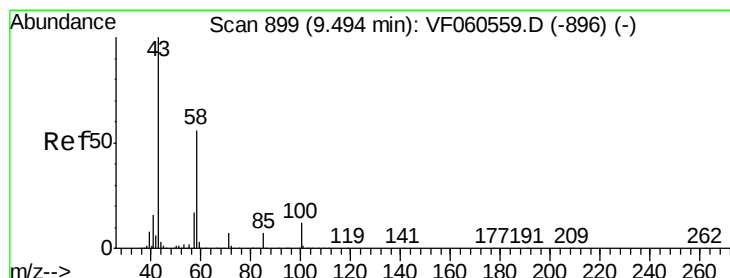
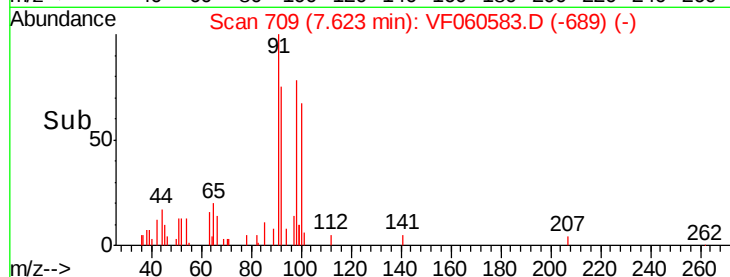
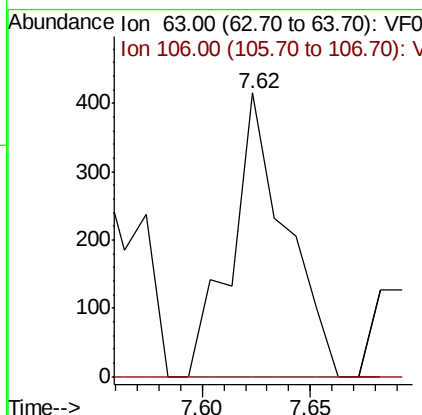
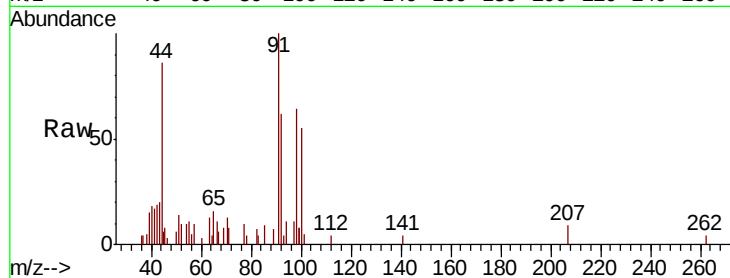




#58
2-Chloroethyl Vinyl ether
Concen: Below Cal
RT: 7.62 min Scan# 709
Delta R.T. -0.01 min
Lab File: VF060583.D
Acq: 5 Nov 2018 20:41

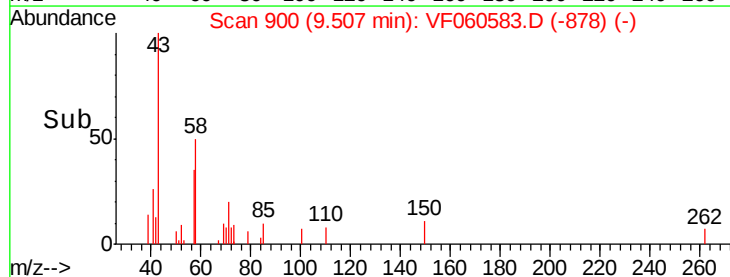
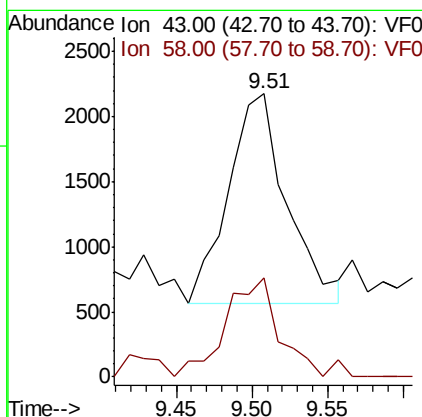
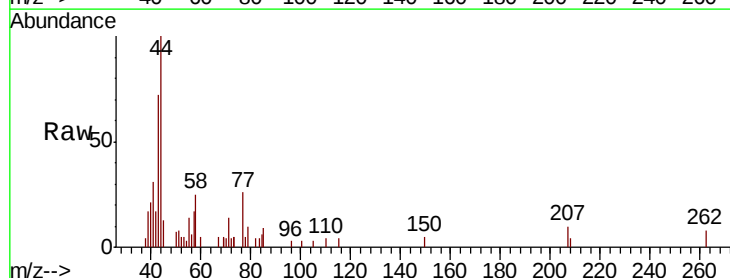
Instrument :
MSVOA_F
ClientSampled :

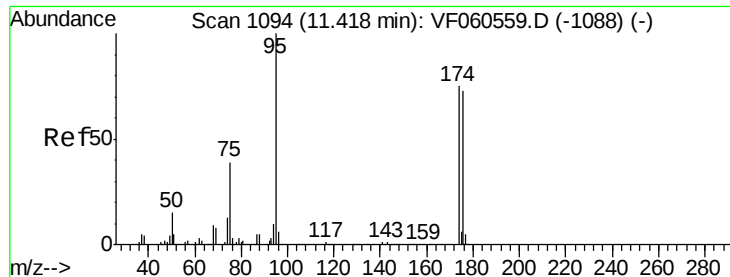
Tot Ion: 63 Resp: 727
Ion Ratio Lower Upper
63 100
106 0.0 0.0 0.0



#59
2-Hexanone
Concen: Below Cal
RT: 9.51 min Scan# 900
Delta R.T. 0.01 min
Lab File: VF060583.D
Acq: 5 Nov 2018 20:41

Tgt Ion: 43 Resp: 4326
Ion Ratio Lower Upper
43 100
58 35.2 26.1 78.3





#62

4-Bromofluorobenzene

Concen: 37.233 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF060583.D

Acq: 5 Nov 2018 20:41

Instrument :

MSVOA_F

ClientSampleId :

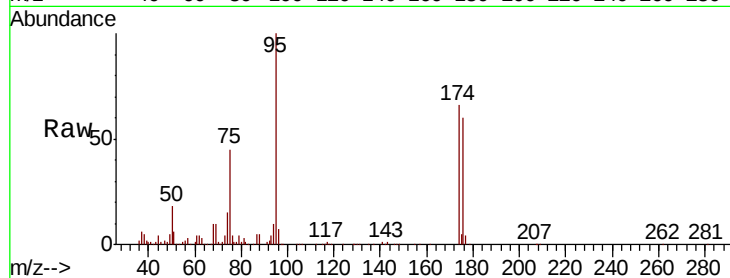
Tot Ion: 95 Resp: 190229

Ion Ratio Lower Upper

95 100

174 66.5 0.0 149.0

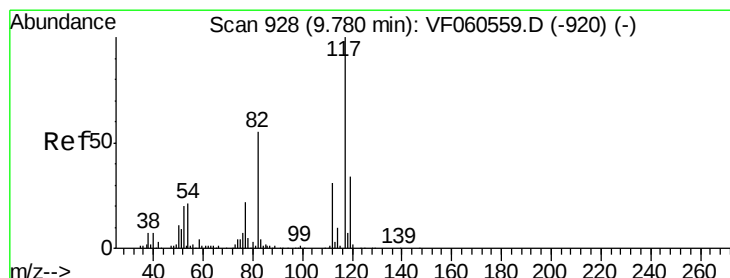
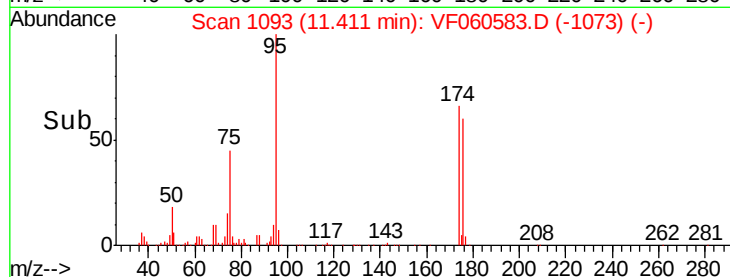
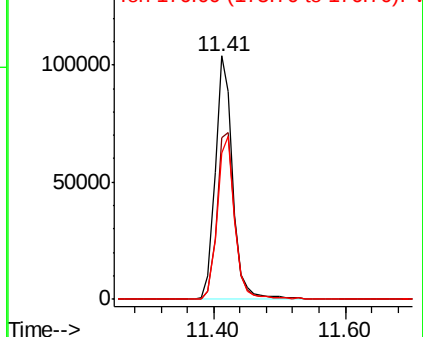
176 59.9 0.0 145.6



Abundance Ion 95.00 (94.70 to 95.70): VF060559.D (-1088) (-)

Ion 174.00 (173.70 to 174.70): VF060559.D (-1088) (-)

Ion 176.00 (175.70 to 176.70): VF060559.D (-1088) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.78 min Scan# 928

Delta R.T. 0.00 min

Lab File: VF060583.D

Acq: 5 Nov 2018 20:41

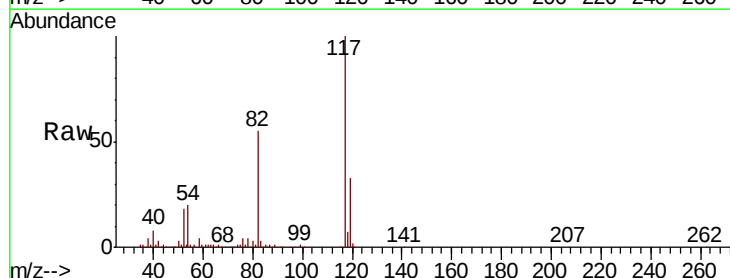
Tgt Ion: 117 Resp: 443650

Ion Ratio Lower Upper

117 100

82 54.7 43.9 65.9

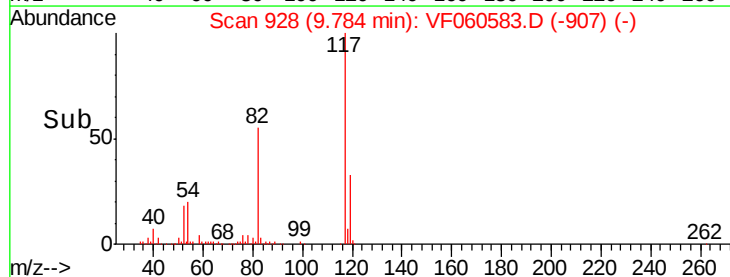
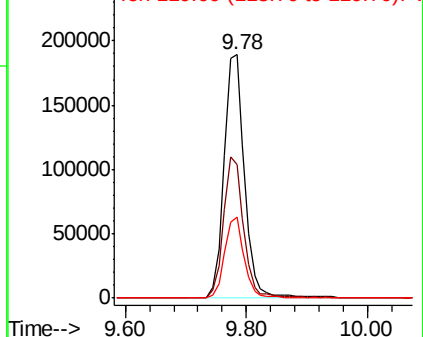
119 33.4 27.4 41.0

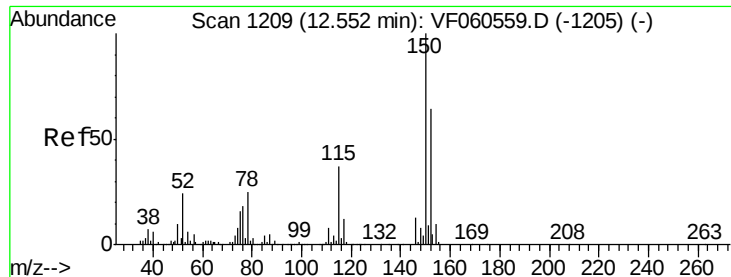


Abundance Ion 117.00 (116.70 to 117.70): VF060559.D (-920) (-)

Ion 82.00 (81.70 to 82.70): VF060559.D (-920) (-)

Ion 119.00 (118.70 to 119.70): VF060559.D (-920) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1209

Delta R.T. 0.00 min

Lab File: VF060583.D

Acq: 5 Nov 2018 20:41

Instrument :

MSVOA_F

ClientSampleId :

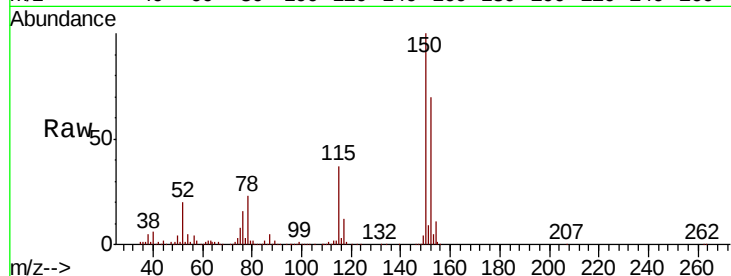
Tot Ion:152 Resp: 241552

Ion Ratio Lower Upper

152 100

115 53.2 29.6 88.8

150 142.7 0.0 315.6

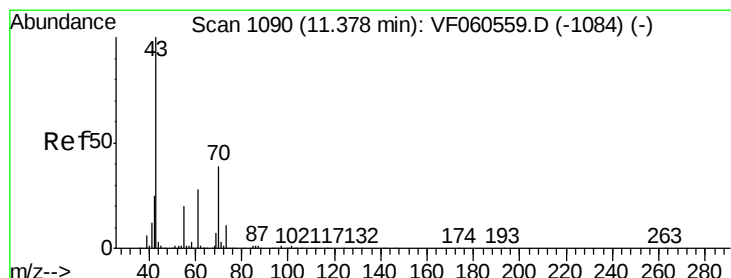
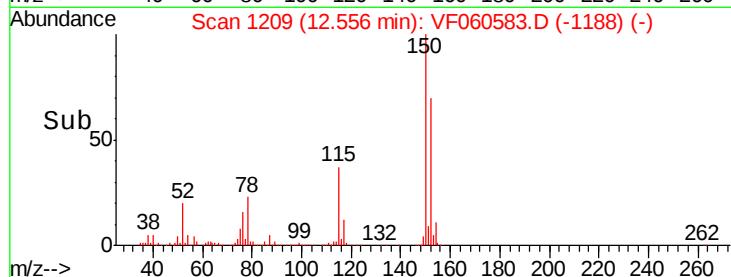
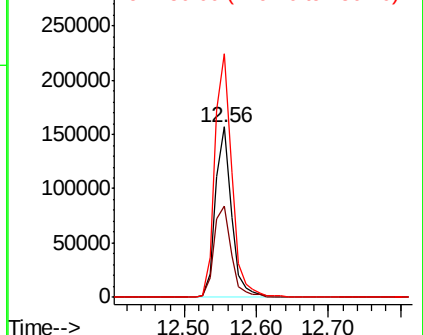


Abundance

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-ethyl acetate

Concen: Below Cal

RT: 11.38 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VF060583.D

Acq: 5 Nov 2018 20:41

Tgt Ion: 43 Resp: 1468

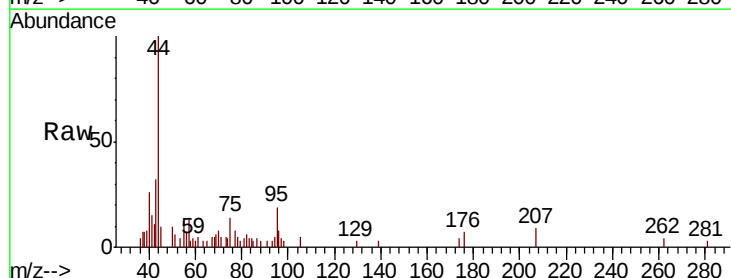
Ion Ratio Lower Upper

43 100

70 24.5 30.9 46.3#

55 38.1 16.6 24.8#

61 14.5 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

