

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052219\
 Data File : VF062703.D
 Acq On : 22 May 2019 14:02
 Operator : FY/SY
 Sample : K2978-06
 Misc : 5.44g/5mL/MSVOA F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: May 23 01:21:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 05:49:09 2019
 Response via : Initial Calibration

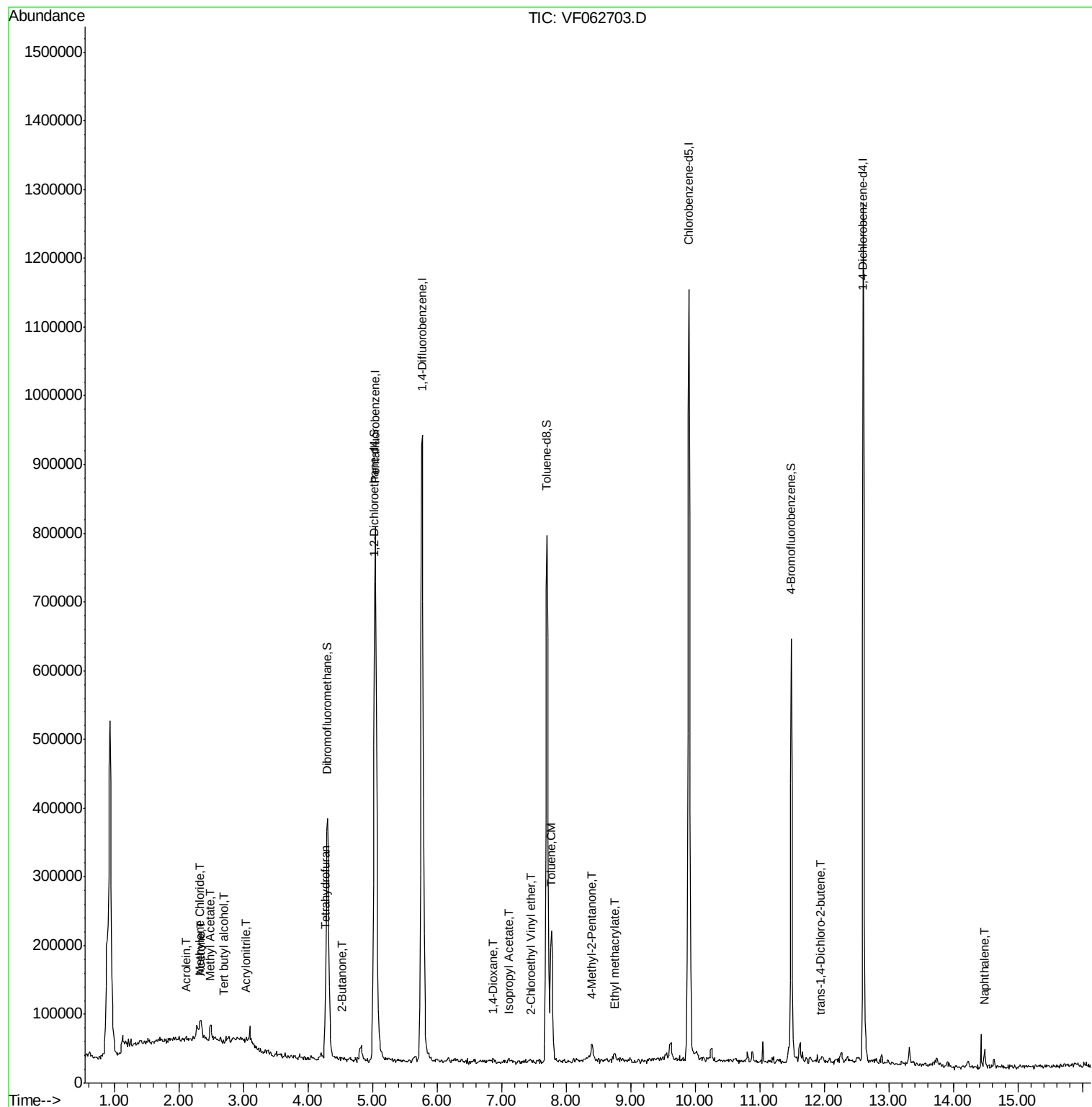
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	726927	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.77	114	1196332	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.90	117	861205	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.60	152	318558	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.02	65	180832	35.20	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	70.40%	
35) Dibromofluoromethane	4.30	113	345115	37.70	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	75.40%	
50) Toluene-d8	7.70	98	717083	32.81	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	65.62%	
62) 4-Bromofluorobenzene	11.49	95	217349	26.22	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	52.44%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.71	59	808	2.383	ug/l #	7
13) Acrolein	2.12	56	1213	3.426	ug/l #	59
15) Acrylonitrile	3.05	53	1423	1.487	ug/l #	58
16) Acetone	2.35	43	13611	10.213	ug/l	92
18) Methyl Acetate	2.49	43	7558	3.609	ug/l #	67
20) Methylene Chloride	2.32	84	21281	3.186	ug/l	98
25) 2-Butanone	4.52	43	8079	2.838	ug/l	98
29) Tetrahydrofuran	4.26	42	2953	2.563	ug/l #	30
43) Isopropyl Acetate	7.11	43	10204	1.574	ug/l #	91
49) 1,4-Dioxane	6.88	88	962	22.161	ug/l #	1
51) 4-Methyl-2-Pentanone	8.40	43	26640	6.010	ug/l #	82
52) Toluene	7.77	92	107673	6.148	ug/l	86
56) Ethyl methacrylate	8.75	69	9496	1.537	ug/l #	84
58) 2-Chloroethyl Vinyl ether	7.44	63	2652	1.319	ug/l #	51
59) 2-Hexanone	9.61	43	26772	Below Cal		86
74) N-amyl acetate	11.44	43	17060	Below Cal		94
81) trans-1,4-Dichloro-2-buten	11.93	75	1655	1.214	ug/l #	51
95) Naphthalene	14.49	128	19416	1.631	ug/l	98

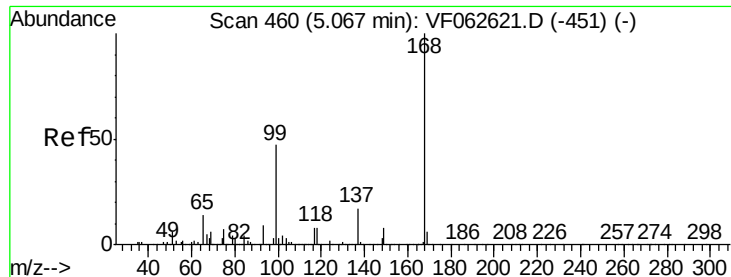
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri May 17 05:49:09 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. -0.02 min

Lab File: VF062703.D

Acq: 22 May 2019 14:02

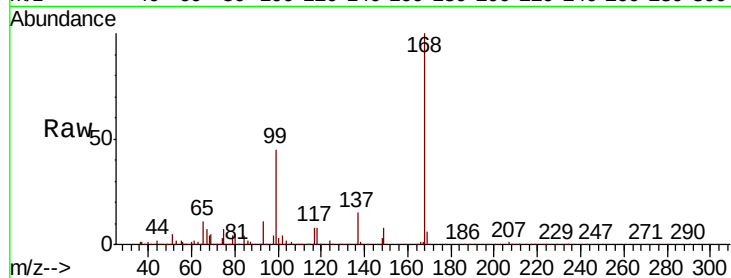
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 726927

Ion Ratio Lower Upper

168 100

99 45.4 37.8 56.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.05

250000

200000

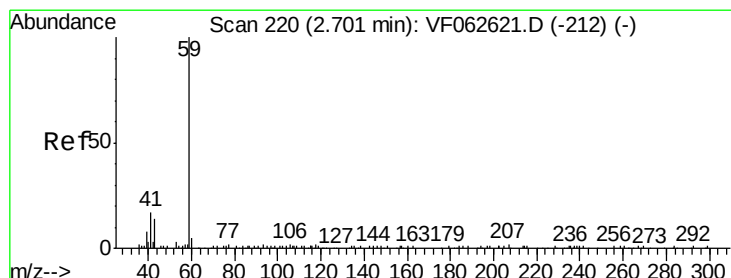
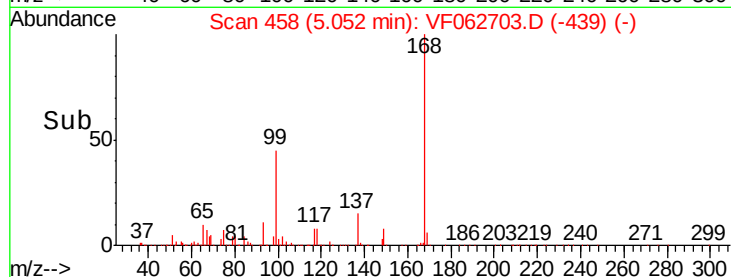
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.383 ug/l

RT: 2.71 min Scan# 220

Delta R.T. 0.00 min

Lab File: VF062703.D

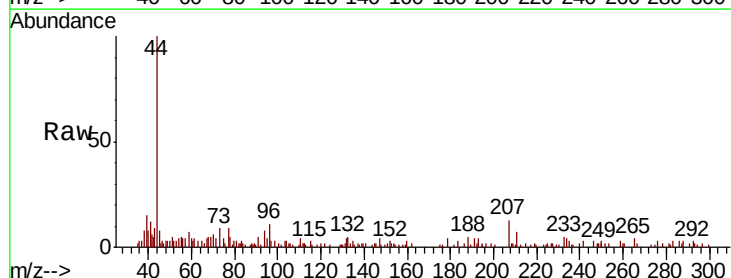
Acq: 22 May 2019 14:02

Tgt Ion: 59 Resp: 808

Ion Ratio Lower Upper

59 100

57 47.6 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.71

800

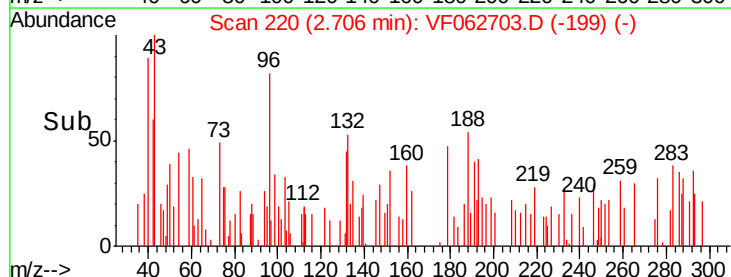
600

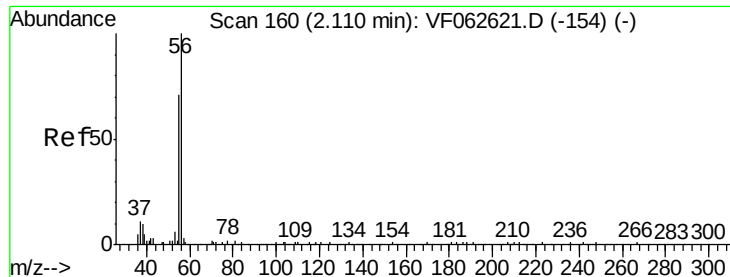
400

200

0

Time-->





#13

Acrolein

Concen: 3.426 ug/l

RT: 2.12 min Scan# 161

Delta R.T. 0.01 min

Lab File: VF062703.D

Acq: 22 May 2019 14:02

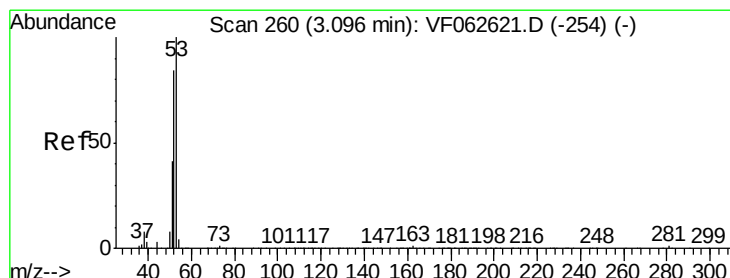
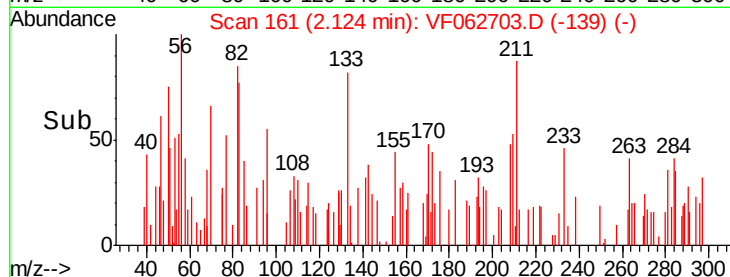
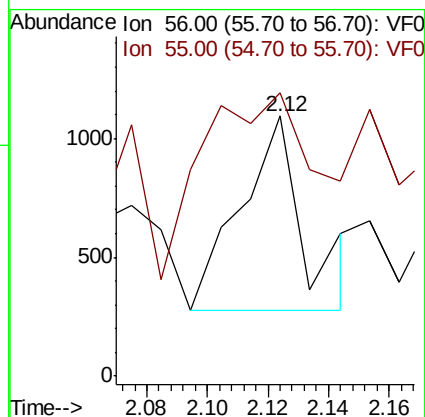
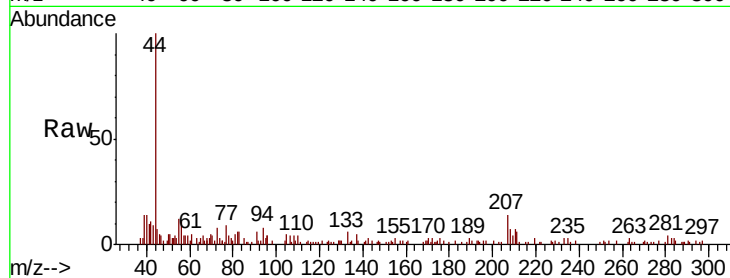
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 1213

Ion Ratio Lower Upper

56 100

55 108.8 59.4 89.0#



#15

Acrylonitrile

Concen: 1.487 ug/l

RT: 3.05 min Scan# 255

Delta R.T. -0.05 min

Lab File: VF062703.D

Acq: 22 May 2019 14:02

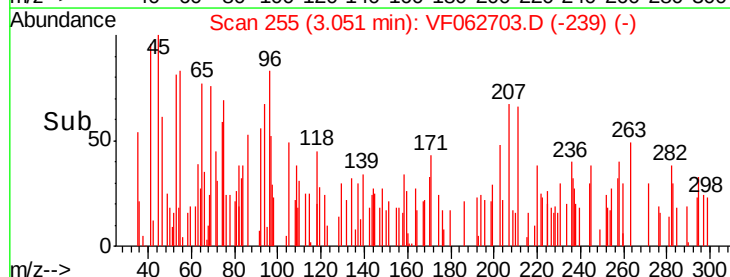
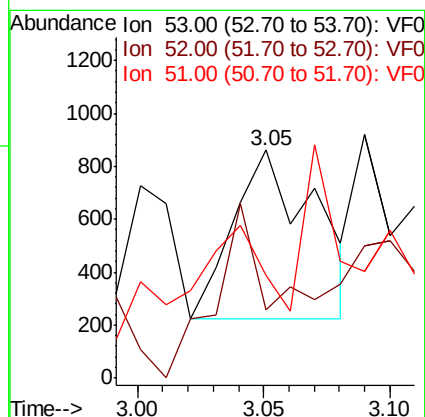
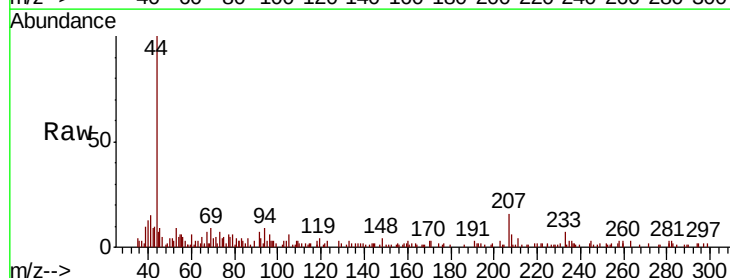
Tgt Ion: 53 Resp: 1423

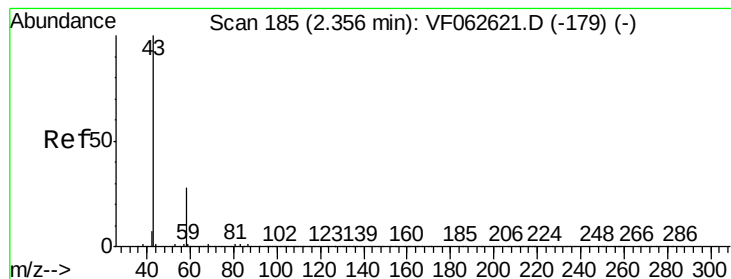
Ion Ratio Lower Upper

53 100

52 30.0 67.3 100.9#

51 45.2 33.0 49.6





#16

Acetone

Concen: 10.213 ug/l

RT: 2.35 min Scan# 184

Delta R.T. -0.01 min

Lab File: VF062703.D

Acq: 22 May 2019 14:02

Instrument :

MSVOA_F

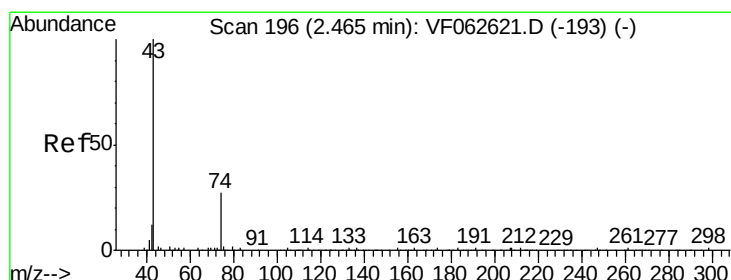
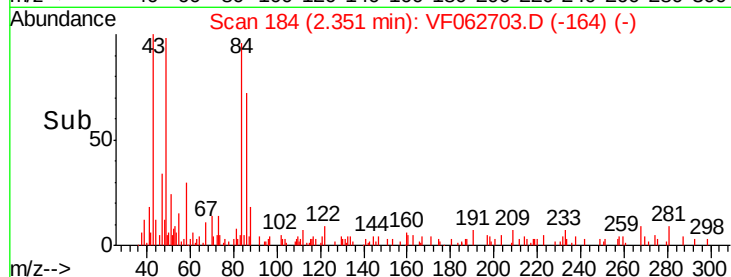
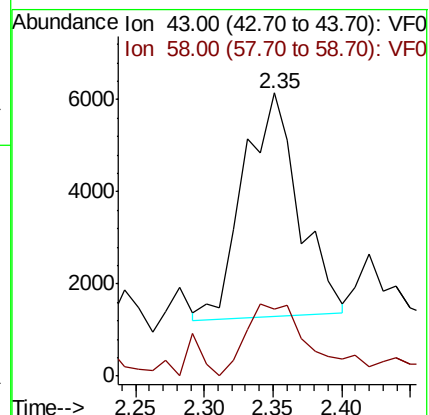
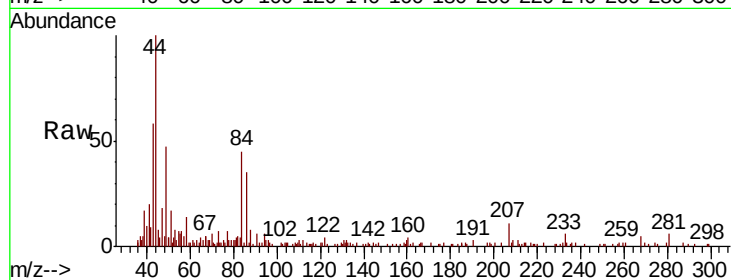
ClientSampleId :

Tot Ion: 43 Resp: 13611

Ion Ratio Lower Upper

43 100

58 23.8 22.6 33.8



#18

Methyl Acetate

Concen: 3.609 ug/l

RT: 2.49 min Scan# 198

Delta R.T. 0.02 min

Lab File: VF062703.D

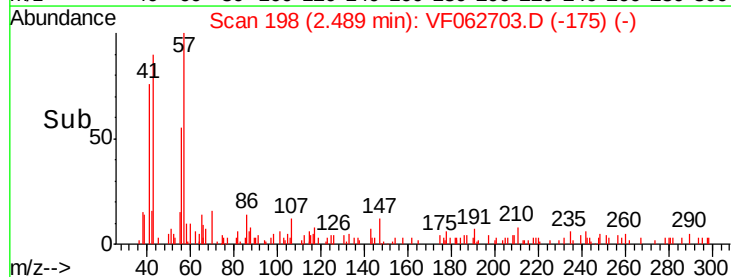
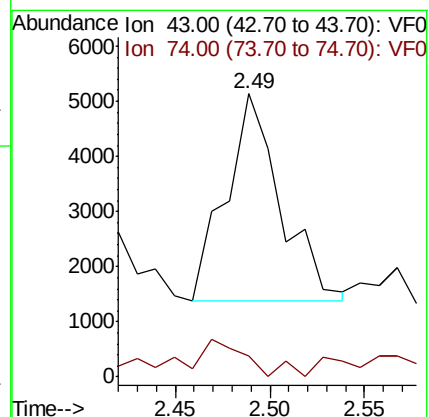
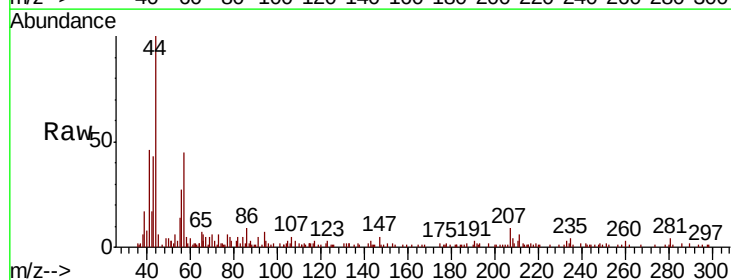
Acq: 22 May 2019 14:02

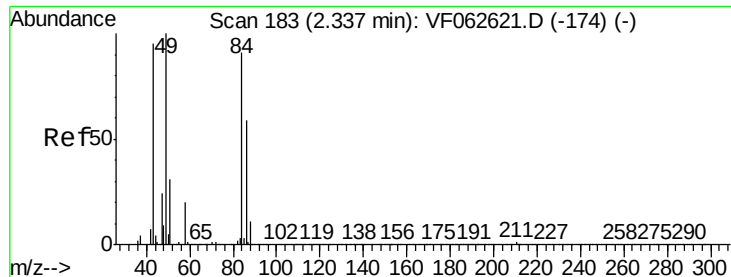
Tgt Ion: 43 Resp: 7558

Ion Ratio Lower Upper

43 100

74 7.2 18.9 28.3#

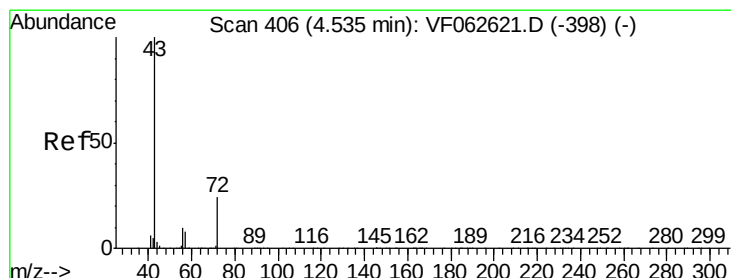
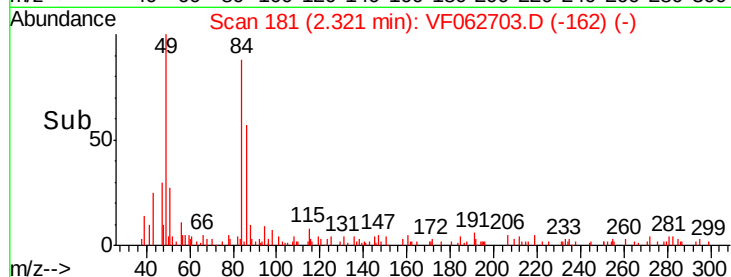
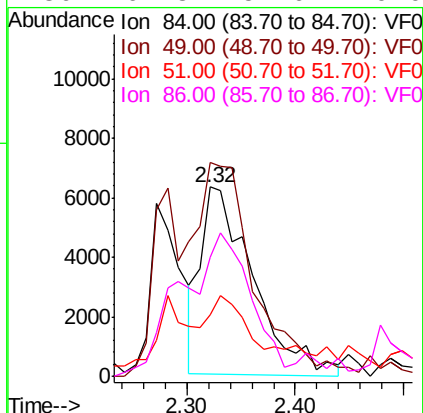
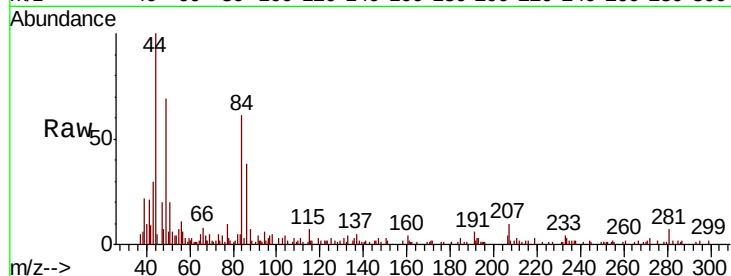




#20
Methvlene Chloride
Concen: 3.186 ug/l
RT: 2.32 min Scan# 181
Delta R.T. -0.02 min
Lab File: VF062703.D
Acq: 22 May 2019 14:02

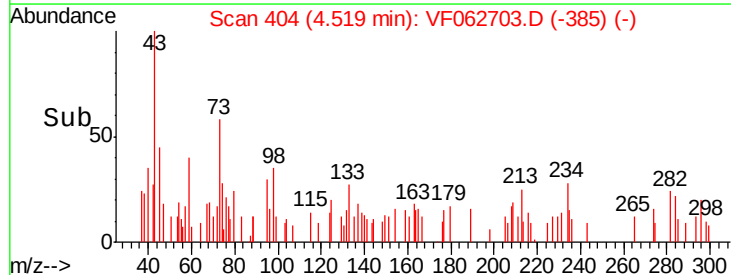
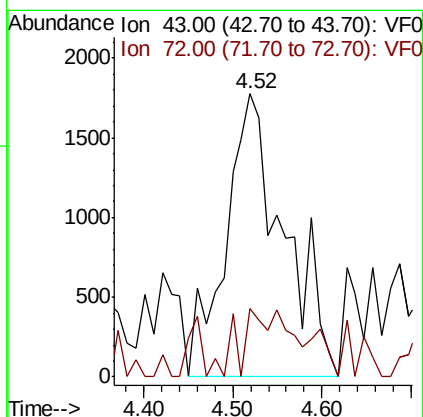
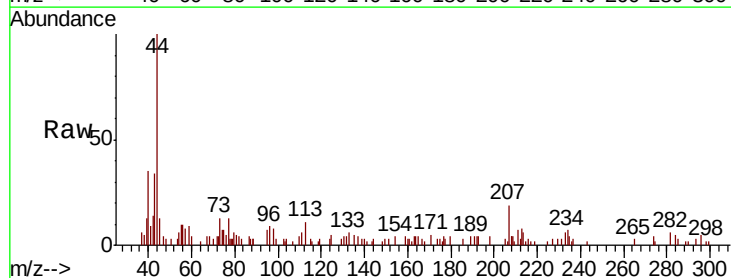
Instrument :
MSVOA_F
ClientSampled :

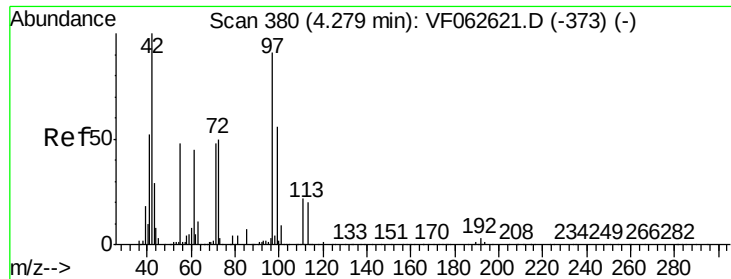
Tot Ion:	84	Resp:	21281
Ion	Ratio	Lower	Upper
84	100		
49	112.8	89.8	134.8
51	32.5	28.4	42.6
86	62.8	52.6	79.0



#25
2-Butanone
Concen: 2.838 ug/l
RT: 4.52 min Scan# 404
Delta R.T. -0.02 min
Lab File: VF062703.D
Acq: 22 May 2019 14:02

Tgt Ion:	43	Resp:	8079
Ion	Ratio	Lower	Upper
43	100		
72	24.3	20.1	30.1

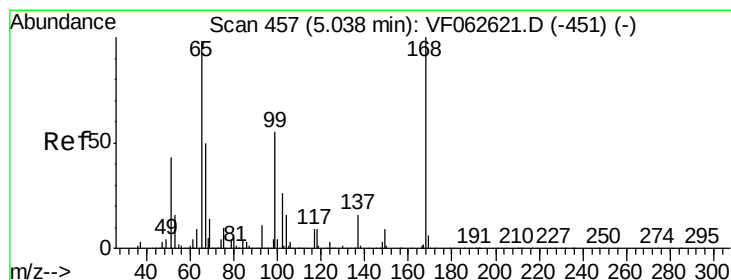
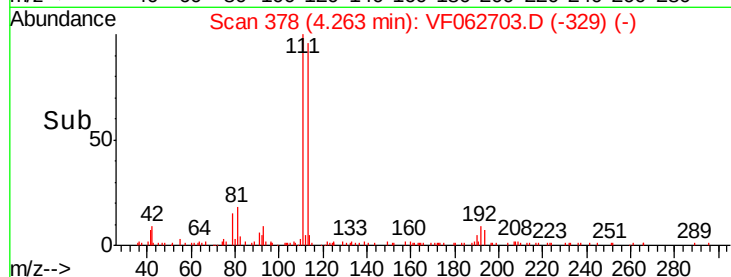
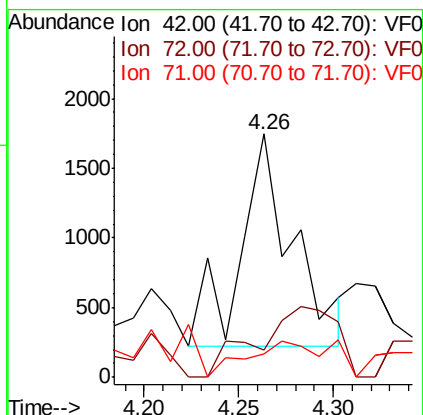
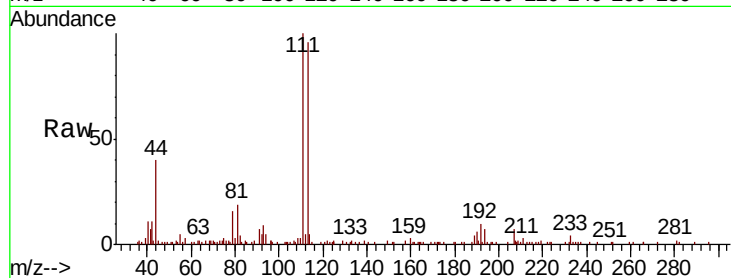




#29
Tetrahydrofuran
Concen: 2.563 ug/l
RT: 4.26 min Scan# 378
Delta R.T. -0.02 min
Lab File: VF062703.D
Acq: 22 May 2019 14:02

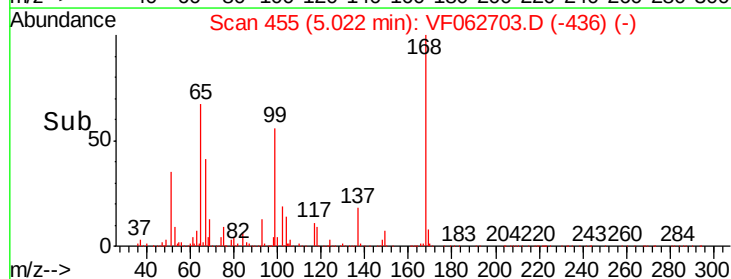
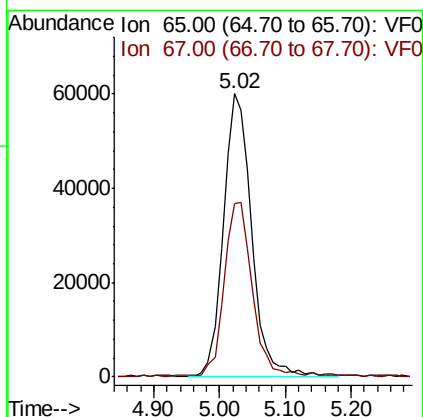
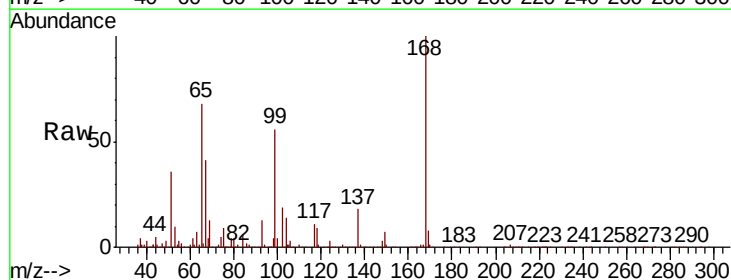
Instrument :
MSVOA_F
ClientSampleId :

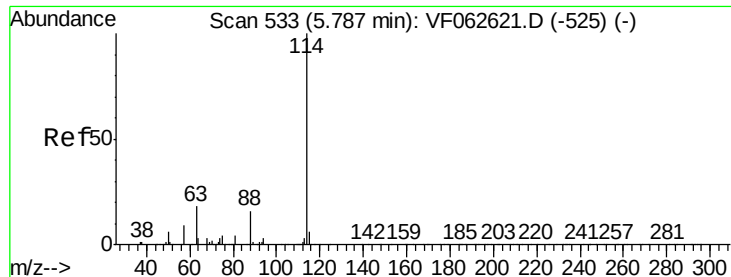
Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	38.2	57.2#
71	0.0	35.8	53.6#



#33
1,2-Dichloroethane-d4
Concen: 35.203 ug/l
RT: 5.02 min Scan# 455
Delta R.T. -0.02 min
Lab File: VF062703.D
Acq: 22 May 2019 14:02

Tgt Ion	Ratio	Lower	Upper
65	100		
67	61.3	0.0	117.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 531

Delta R.T. -0.02 min

Lab File: VF062703.D

Acq: 22 May 2019 14:02

Instrument :

MSVOA_F

ClientSampled :

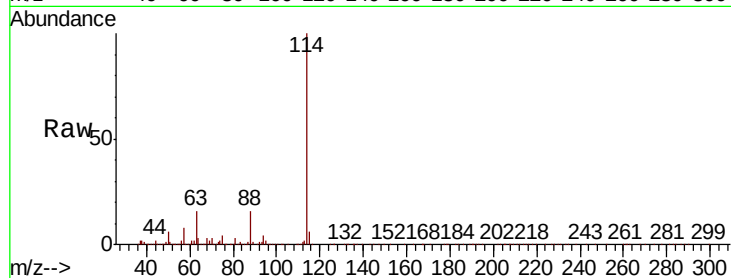
Tot Ion:114 Resp: 1196332

Ion Ratio Lower Upper

114 100

63 16.0 0.0 35.4

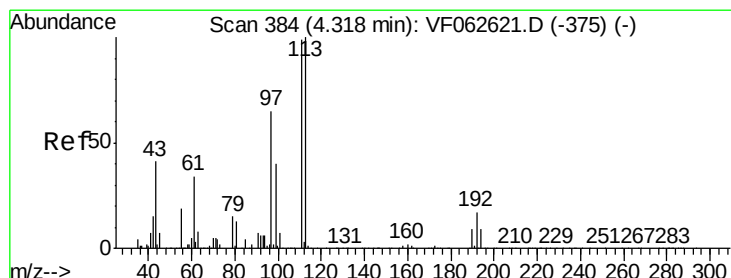
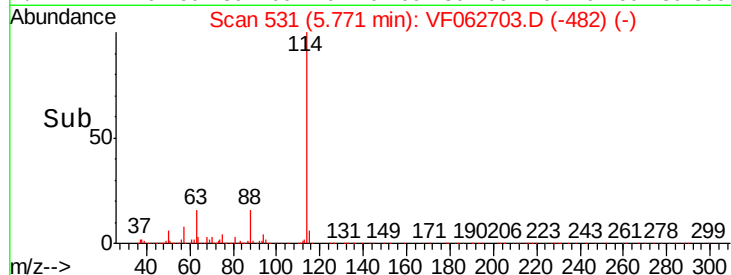
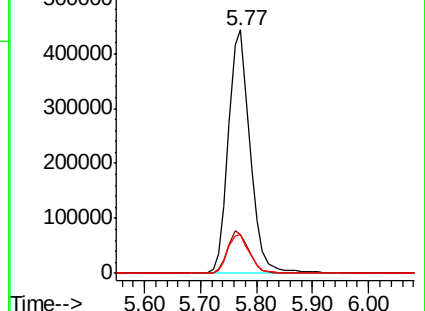
88 15.9 0.0 32.4



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: 37.699 ug/l

RT: 4.30 min Scan# 382

Delta R.T. -0.02 min

Lab File: VF062703.D

Acq: 22 May 2019 14:02

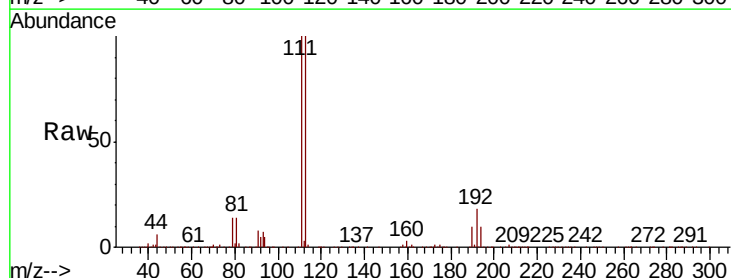
Tgt Ion:113 Resp: 345115

Ion Ratio Lower Upper

113 100

111 100.1 79.4 119.2

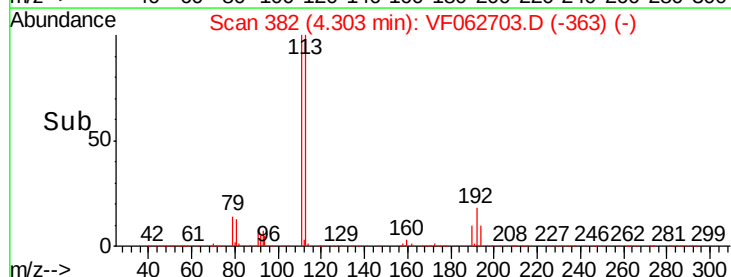
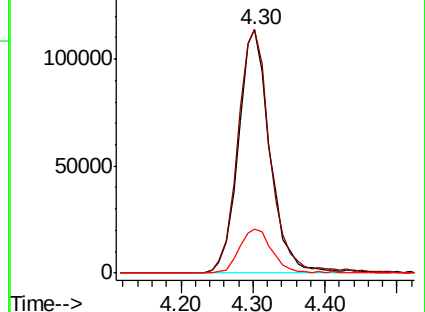
192 18.1 13.4 20.2

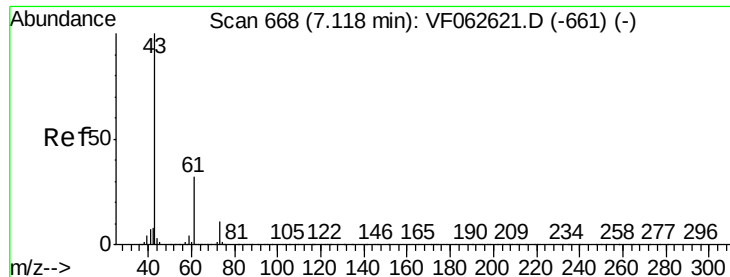


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#43

Isopropyl Acetate

Concen: 1.574 ug/l

RT: 7.11 min Scan# 667

Delta R.T. -0.01 min

Lab File: VF062703.D

Acq: 22 May 2019 14:02

Instrument :

MSVOA_F

ClientSampled :

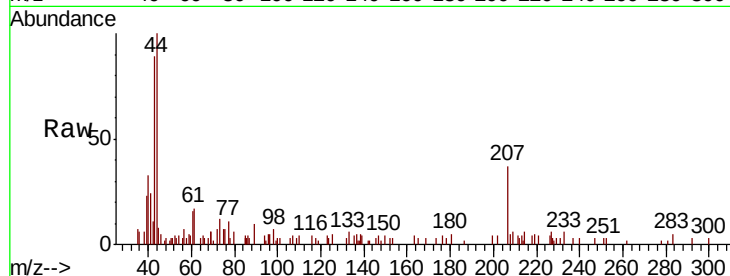
Tot Ion: 43 Resp: 10204

Ion Ratio Lower Upper

43 100

61 37.5 25.8 38.8

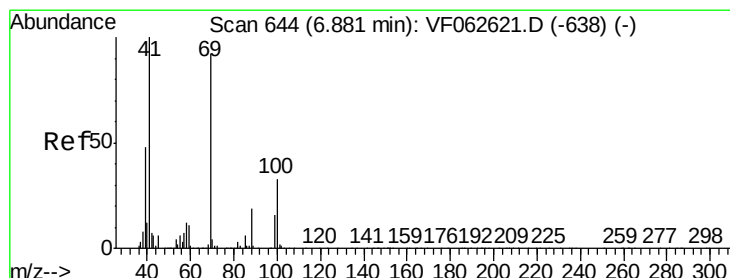
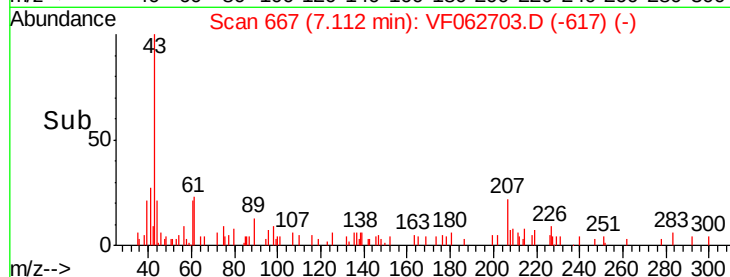
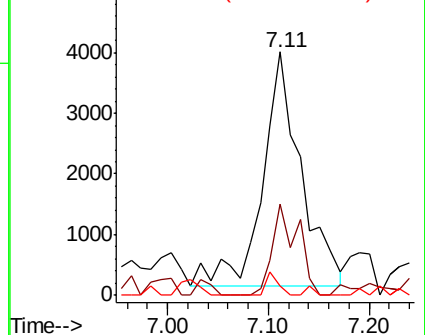
87 3.6 0.4 0.6#



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



#49

1,4-Dioxane

Concen: 22.161 ug/l

RT: 6.88 min Scan# 643

Delta R.T. -0.01 min

Lab File: VF062703.D

Acq: 22 May 2019 14:02

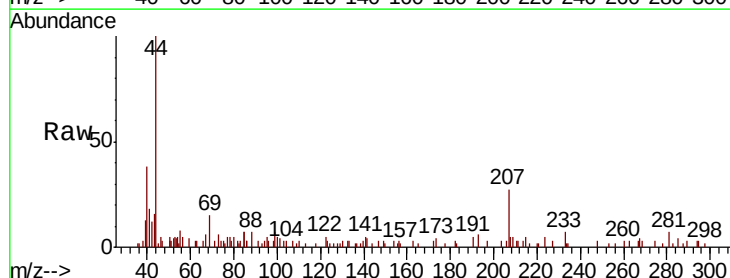
Tgt Ion: 88 Resp: 962

Ion Ratio Lower Upper

88 100

43 225.4 30.0 45.0#

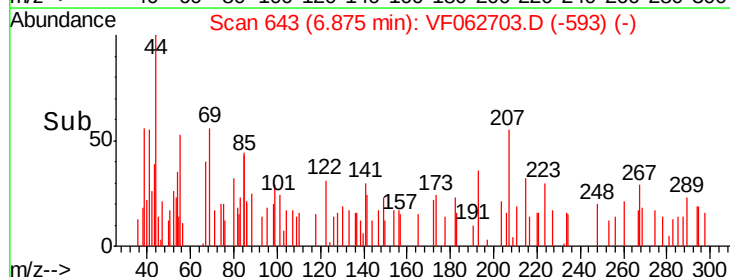
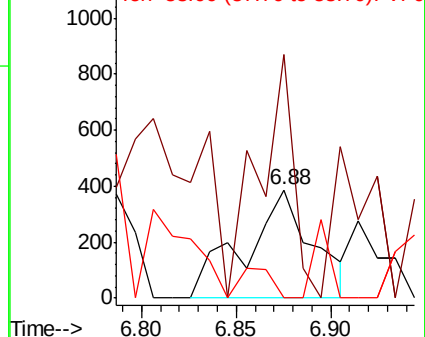
58 0.0 51.1 76.7#

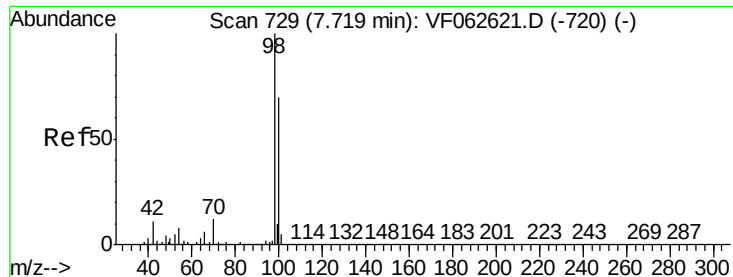


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

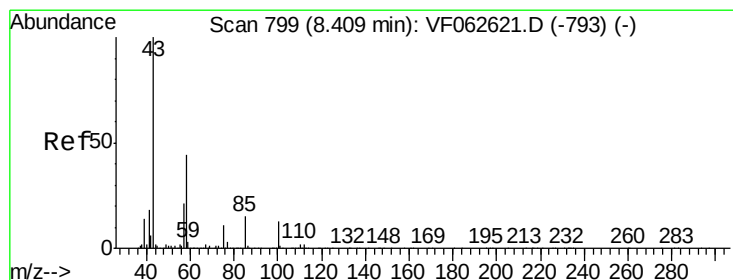
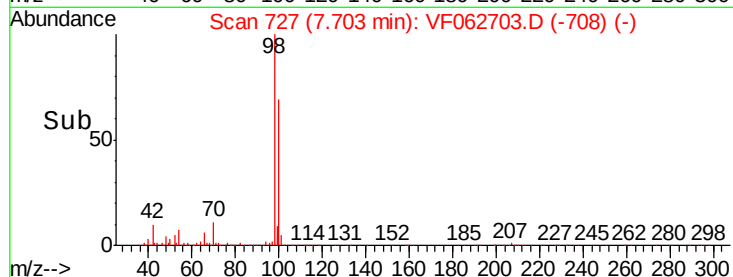
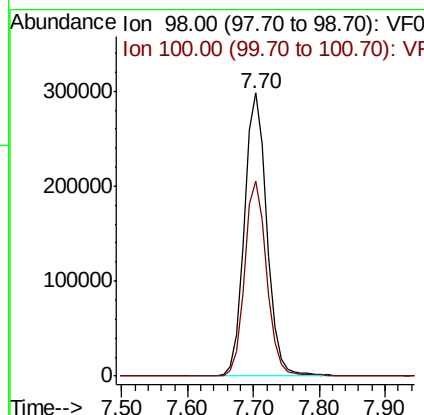
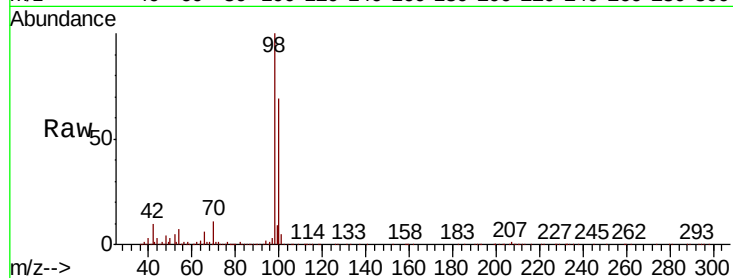




#50
Toluene-d8
Concen: 32.808 ug/l
RT: 7.70 min Scan# 727
Delta R.T. -0.02 min
Lab File: VF062703.D
Acq: 22 May 2019 14:02

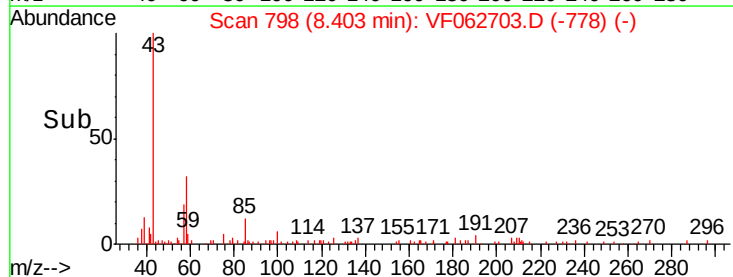
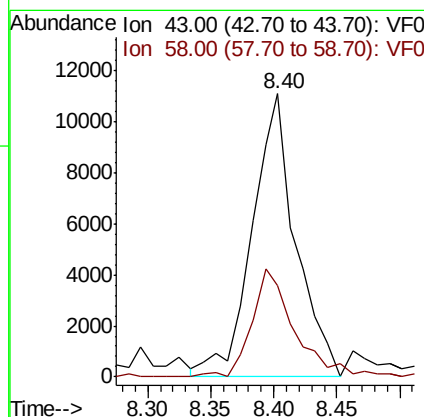
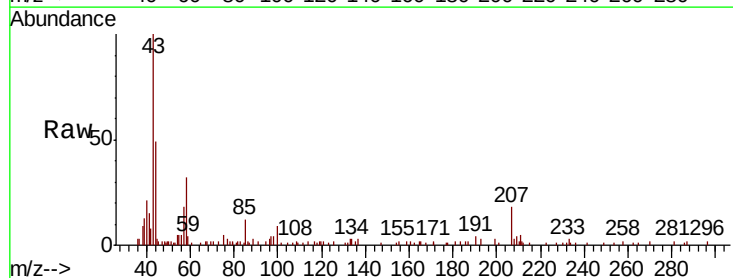
Instrument :
MSVOA_F
ClientSampleId :

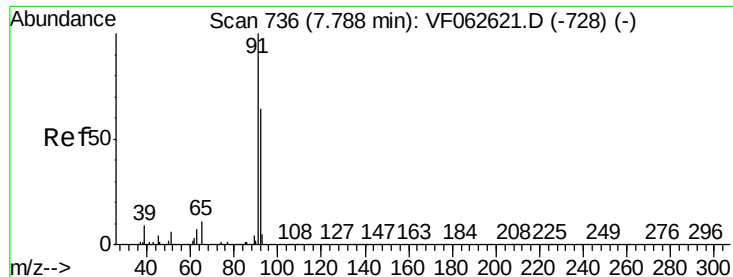
Tot Ion: 98 Resp: 717083
Ion Ratio Lower Upper
98 100
100 68.9 56.2 84.2



#51
4-Methyl-2-Pentanone
Concen: 6.010 ug/l
RT: 8.40 min Scan# 798
Delta R.T. -0.01 min
Lab File: VF062703.D
Acq: 22 May 2019 14:02

Tgt Ion: 43 Resp: 26640
Ion Ratio Lower Upper
43 100
58 32.2 34.9 52.3#





#52

Toluene

Concen: 6.148 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.02 min

Lab File: VF062703.D

Acq: 22 May 2019 14:02

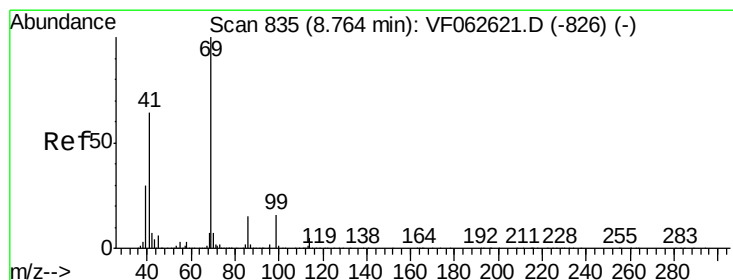
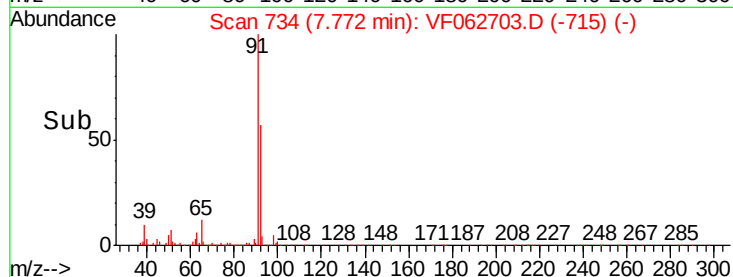
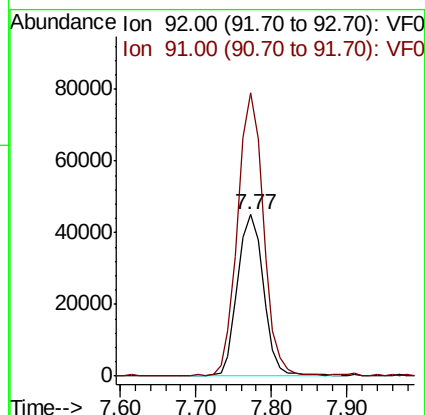
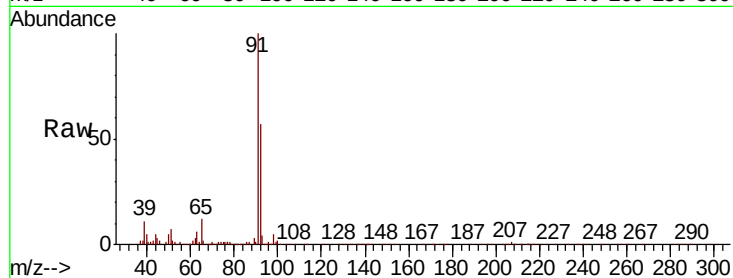
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 92 Resp: 107673

Ion Ratio Lower Upper

92 100

91 175.5 125.4 188.0



#56

Ethyl methacrylate

Concen: 1.537 ug/l

RT: 8.75 min Scan# 833

Delta R.T. -0.02 min

Lab File: VF062703.D

Acq: 22 May 2019 14:02

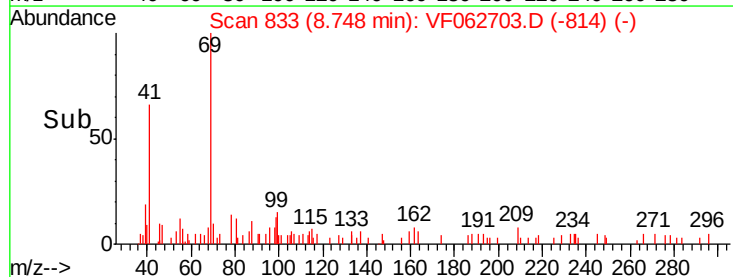
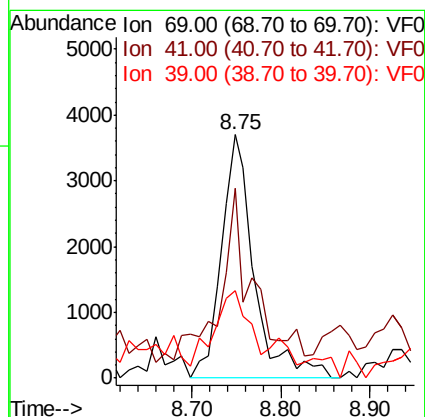
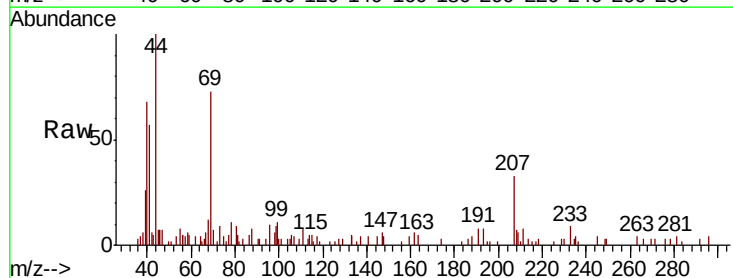
Tgt Ion: 69 Resp: 9496

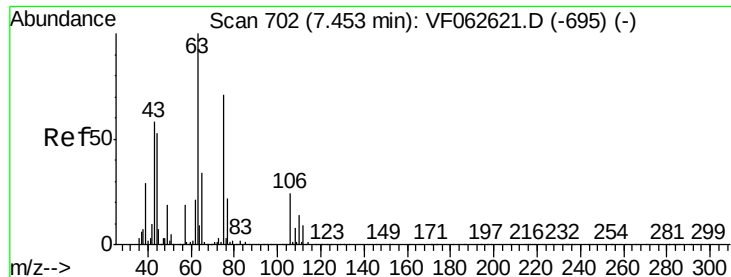
Ion Ratio Lower Upper

69 100

41 77.9 51.4 77.2#

39 35.8 23.6 35.4#

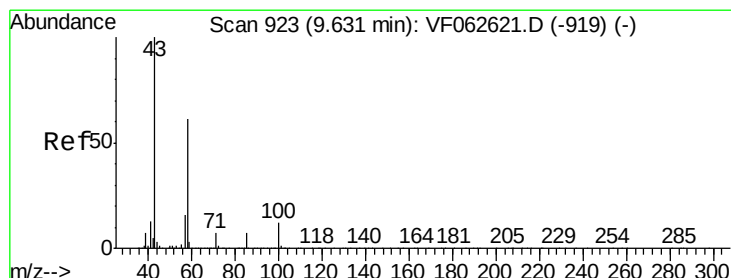
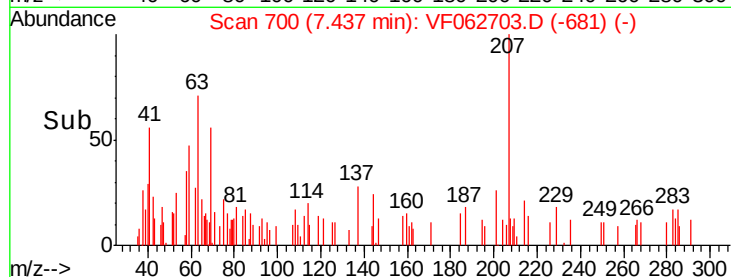
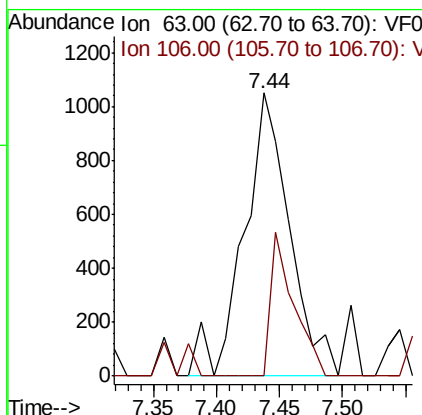
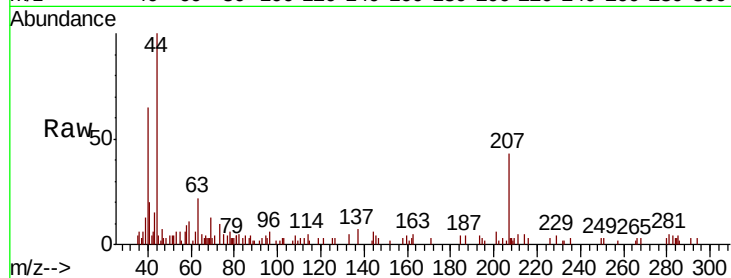




#58
2-Chloroethyl Vinyl ether
Concen: 1.319 ug/l
RT: 7.44 min Scan# 700
Delta R.T. -0.02 min
Lab File: VF062703.D
Acq: 22 May 2019 14:02

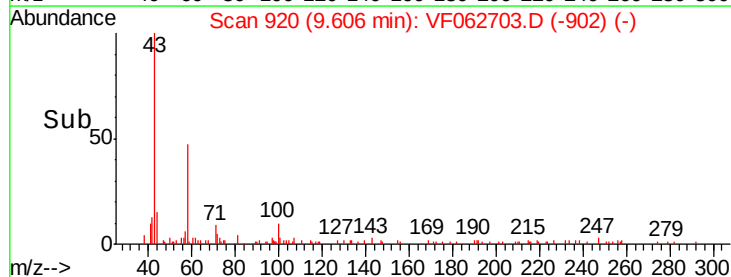
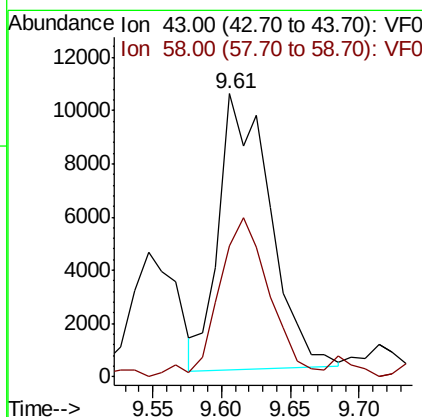
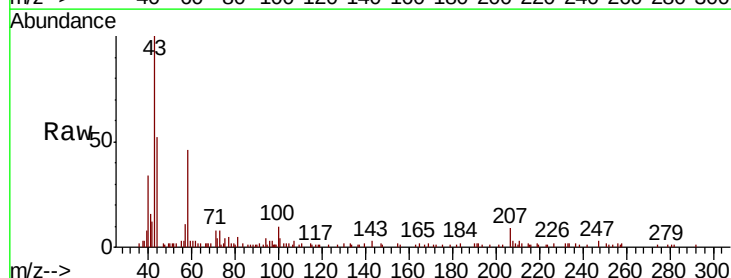
Instrument :
MSVOA_F
ClientSampled :

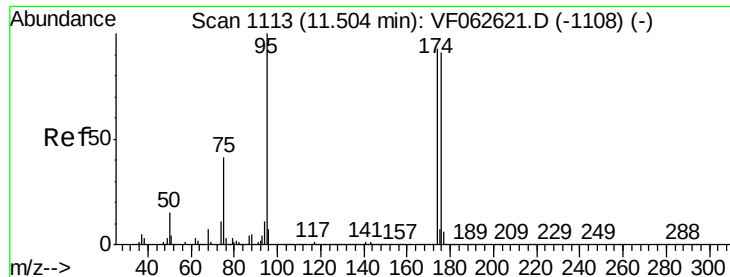
Tot Ion: 63 Resp: 2652
Ion Ratio Lower Upper
63 100
106 0.0 19.1 28.7#



#59
2-Hexanone
Concen: Below Cal
RT: 9.61 min Scan# 920
Delta R.T. -0.03 min
Lab File: VF062703.D
Acq: 22 May 2019 14:02

Tgt Ion: 43 Resp: 26772
Ion Ratio Lower Upper
43 100
58 46.1 28.1 84.4

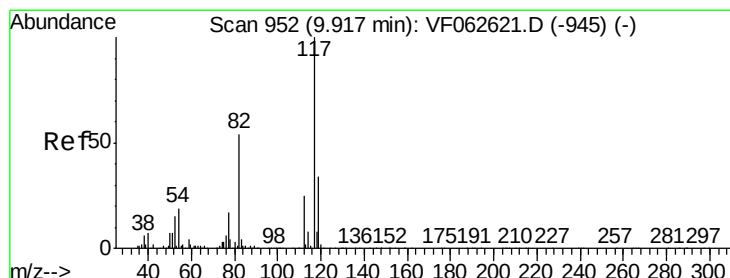
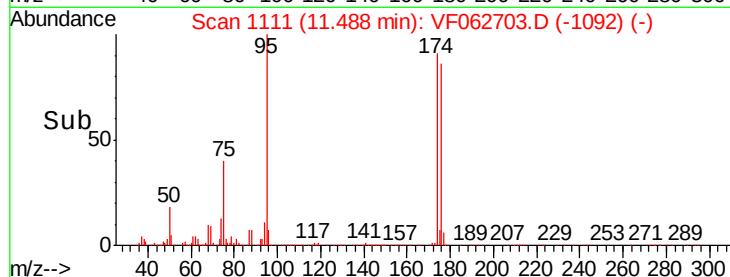
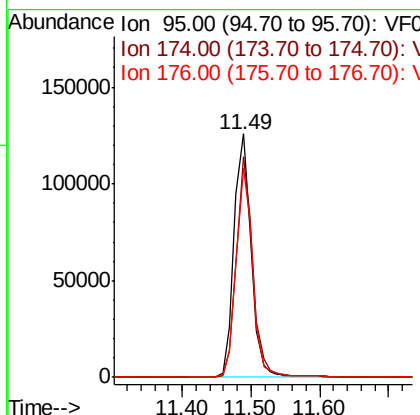
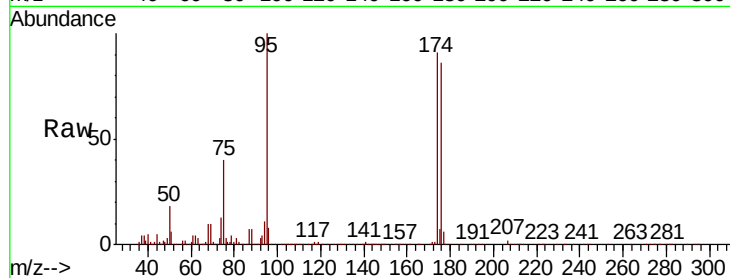




#62
4-Bromofluorobenzene
Concen: 26.219 ug/l
RT: 11.49 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VF062703.D
Acq: 22 May 2019 14:02

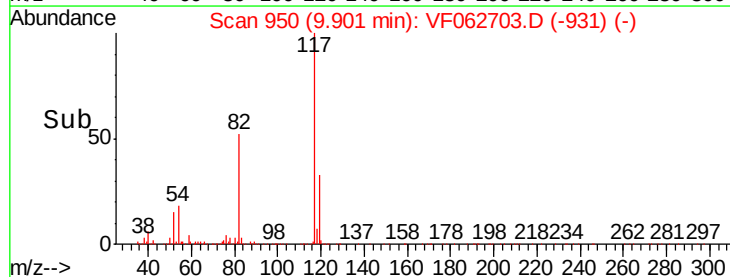
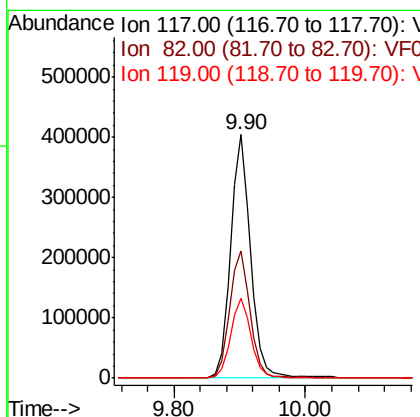
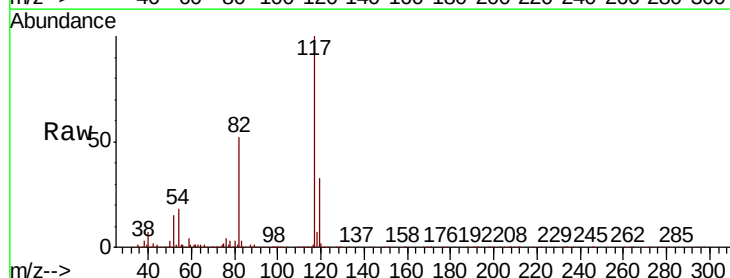
Instrument :
MSVOA_F
ClientSampleId :

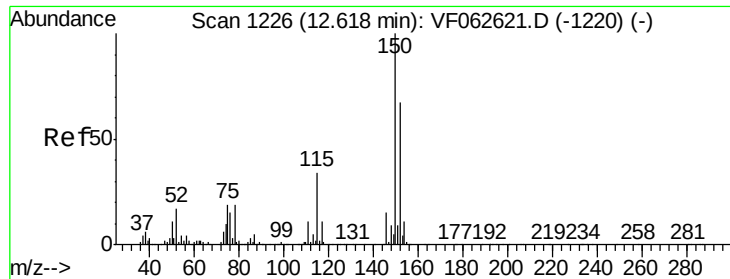
Tot Ion	Ratio	Lower	Upper
95	100		
174	90.8	0.0	185.6
176	86.0	0.0	182.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 950
Delta R.T. -0.02 min
Lab File: VF062703.D
Acq: 22 May 2019 14:02

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.2	43.3	64.9
119	32.9	27.4	41.0

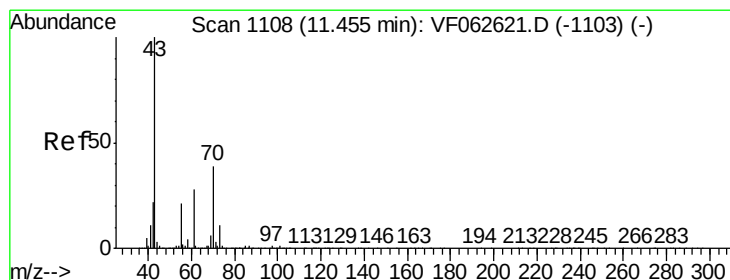
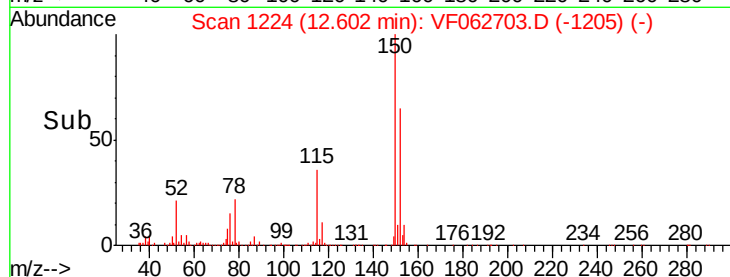
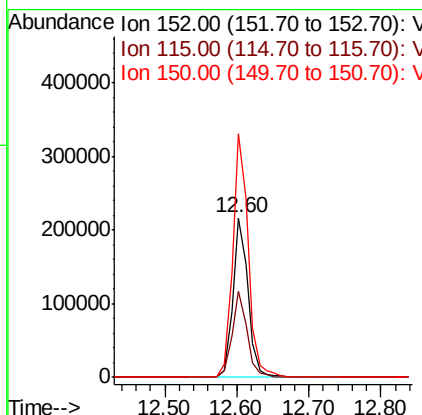
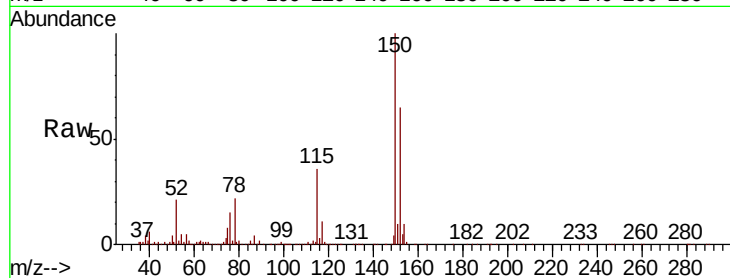




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.60 min Scan# 1224
 Delta R.T. -0.02 min
 Lab File: VF062703.D
 Acq: 22 May 2019 14:02

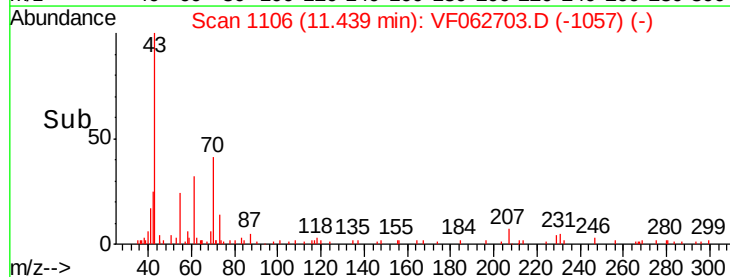
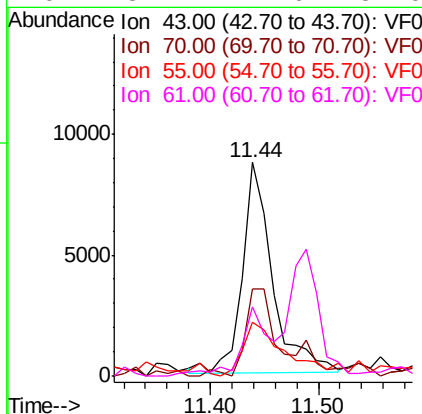
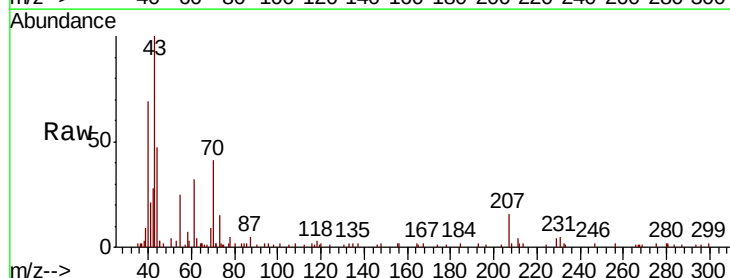
Instrument :
 MSVOA_F
 ClientSampled :

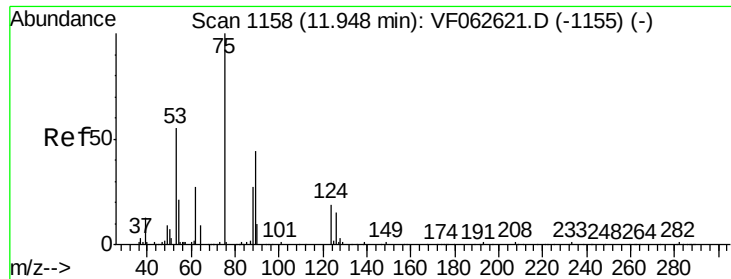
Tot Ion	Ratio	Lower	Upper
152	100		
115	54.3	25.2	75.6
150	152.8	0.0	306.2



#74
 N-ethyl acetate
 Concen: Below Cal
 RT: 11.44 min Scan# 1106
 Delta R.T. -0.01 min
 Lab File: VF062703.D
 Acq: 22 May 2019 14:02

Tgt Ion	Ratio	Lower	Upper
43	100		
70	40.9	30.9	46.3
55	25.1	17.0	25.4
61	32.4	22.6	34.0





#81

trans-1,4-Dichloro-2-butene

Concen: 1.214 ug/l

RT: 11.93 min Scan# 1156

Delta R.T. -0.02 min

Lab File: VF062703.D

Acq: 22 May 2019 14:02

Instrument :

MSVOA_F

ClientSampleId :

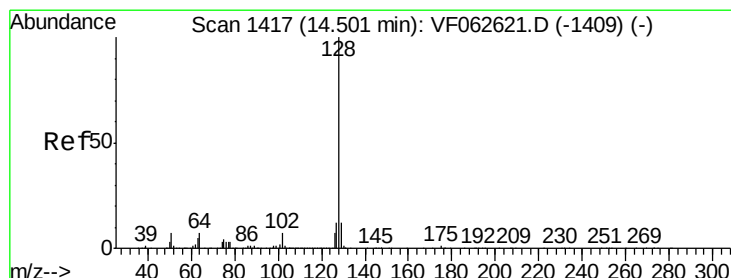
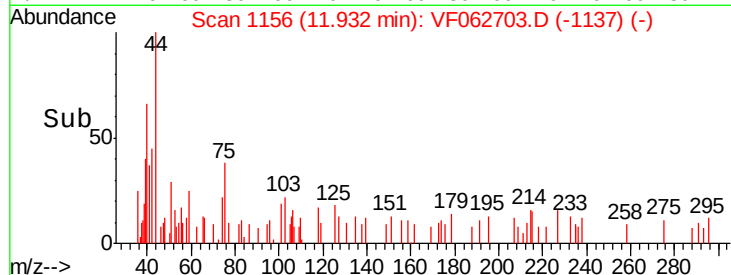
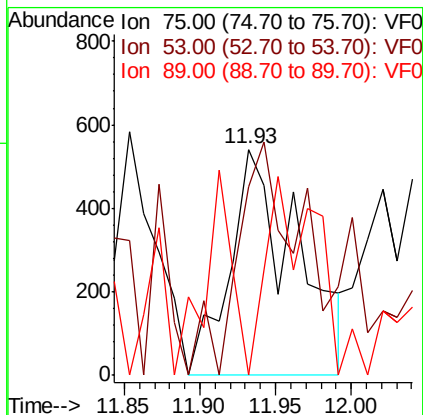
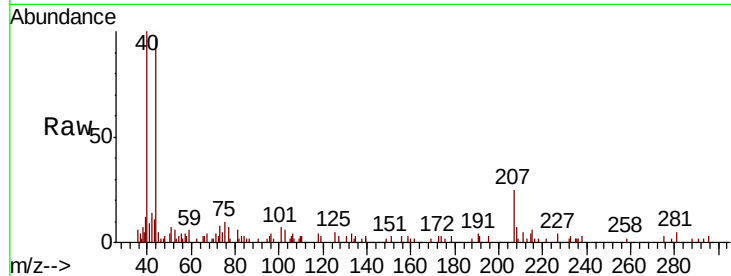
Tot Ion: 75 Resp: 1655

Ion Ratio Lower Upper

75 100

53 83.4 46.9 70.3#

89 0.0 36.4 54.6#



#95

Naphthalene

Concen: 1.631 ug/l

RT: 14.49 min Scan# 1415

Delta R.T. -0.02 min

Lab File: VF062703.D

Acq: 22 May 2019 14:02

Tgt Ion: 128 Resp: 19416

Ion Ratio Lower Upper

128 100

127 10.9 9.7 14.5

129 11.6 9.3 13.9

