

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF060519\
 Data File : VF062870.D
 Acq On : 5 Jun 2019 17:30
 Operator : FY/SY
 Sample : K3186-02RE
 Misc : 3.30u/5mL/MSVOA F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jun 06 08:02:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F053019S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 31 04:18:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.08	168	225955	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.80	114	363642	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.93	117	296451	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	99671	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.06	65	91920	58.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.66%	
35) Dibromofluoromethane	4.33	113	183508	66.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	133.56%	
50) Toluene-d8	7.73	98	397027	57.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.28%	
62) 4-Bromofluorobenzene	11.51	95	122737	49.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.20%	

Target Compounds

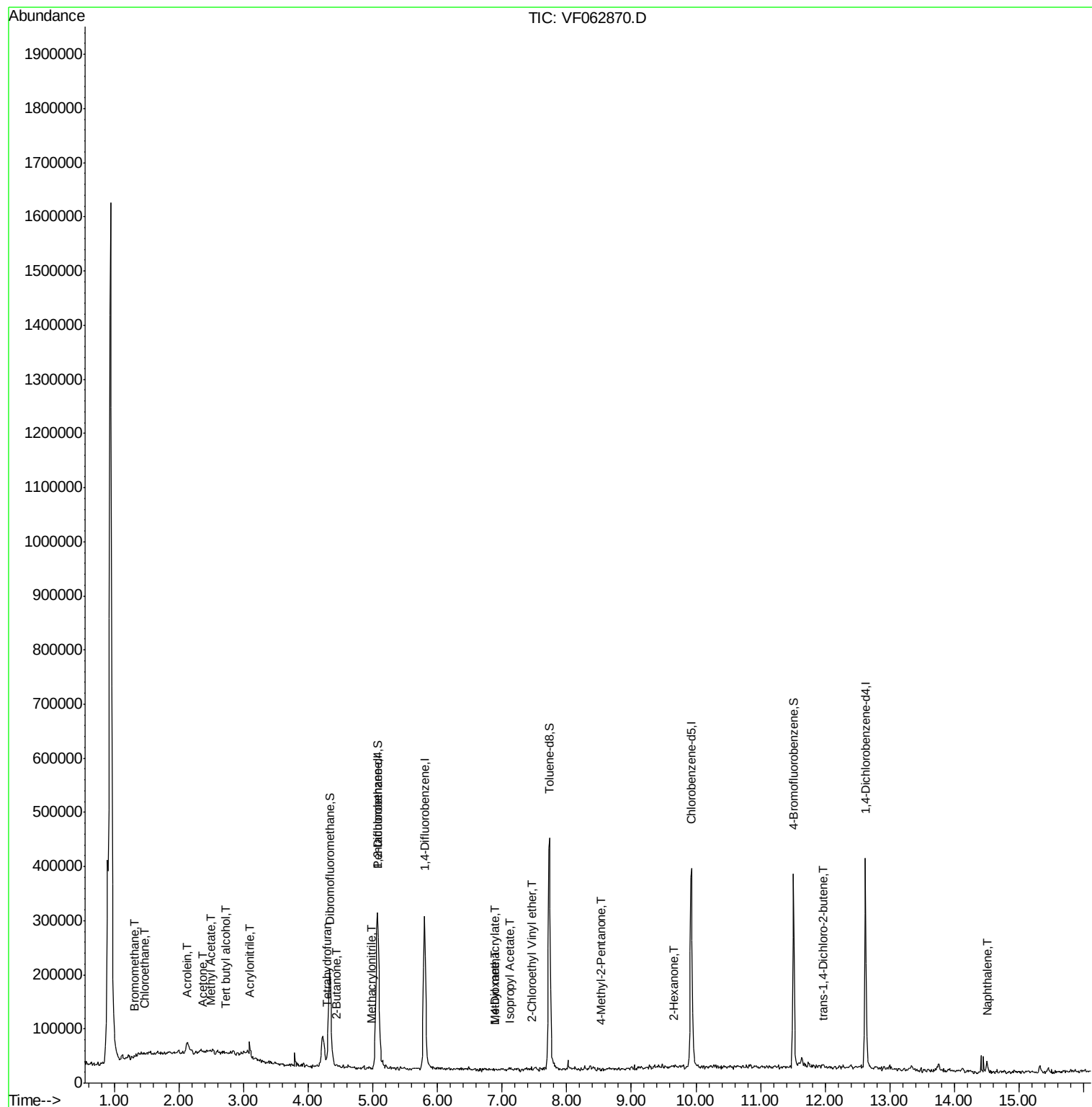
					Qvalue
2) Dichlorodifluoromethane	1.05	85	393	Below Cal	93
5) Bromomethane	1.31	94	1544	1.165 ug/l	83
6) Chloroethane	1.47	64	1289	1.484 ug/l #	37
11) Tert butyl alcohol	2.72	59	484	5.113 ug/l #	31
13) Acrolein	2.12	56	1576	34.629 ug/l #	1
15) Acrylonitrile	3.10	53	497	1.397 ug/l #	74
16) Acetone	2.37	43	3017	8.436 ug/l #	77
18) Methyl Acetate	2.48	43	659	1.055 ug/l	91
25) 2-Butanone	4.43	43	902	1.083 ug/l	95
29) Tetrahydrofuran	4.28	42	1458	4.577 ug/l #	74
41) Methacrylonitrile	4.98	41	1212	1.704 ug/l #	62
43) Isopropyl Acetate	7.12	43	2855	1.689 ug/l #	38
48) Methyl methacrylate	6.89	41	1557	1.787 ug/l #	25
49) 1,4-Dioxane	6.89	88	524	45.630 ug/l #	80
51) 4-Methyl-2-Pentanone	8.53	43	1471	1.219 ug/l	93
58) 2-Chloroethyl Vinyl ether	7.46	63	1241	2.111 ug/l #	51
59) 2-Hexanone	9.65	43	3224	3.748 ug/l #	48
81) trans-1,4-Dichloro-2-buten	11.97	75	722	1.732 ug/l #	59
95) Naphthalene	14.51	128	14617	4.797 ug/l #	93

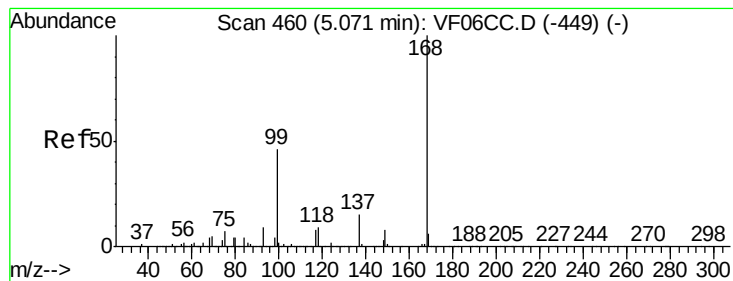
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F053019S.M
Quant Title : SW846 8260
QLast Update : Fri May 31 04:18:30 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.08 min Scan# 461

Delta R.T. 0.01 min

Lab File: VF062870.D

Acq: 5 Jun 2019 17:30

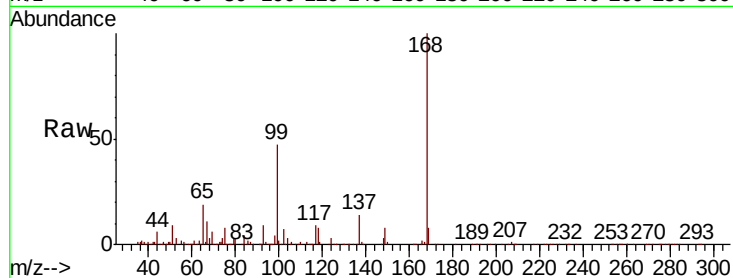
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 225955

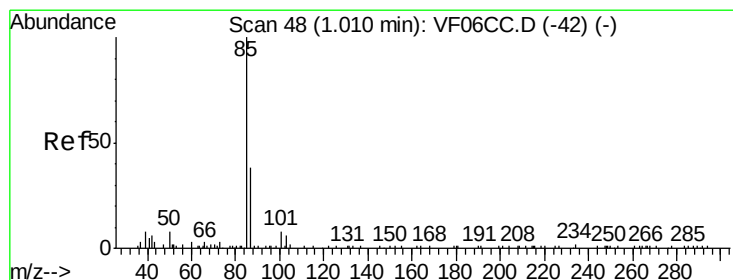
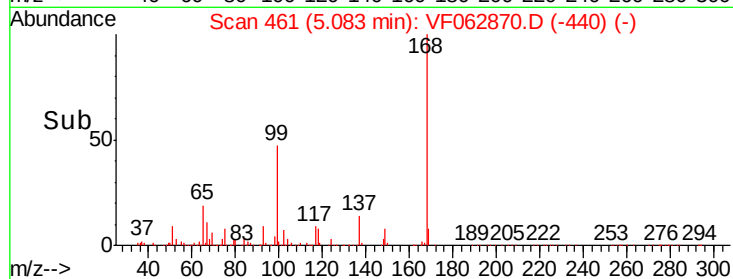
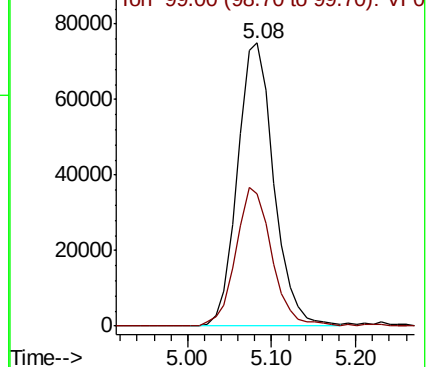
Ion Ratio Lower Upper

168 100

99 46.7 39.1 58.7



Abundance Ion 168.00 (167.70 to 168.70): VF0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.05 min Scan# 52

Delta R.T. 0.04 min

Lab File: VF062870.D

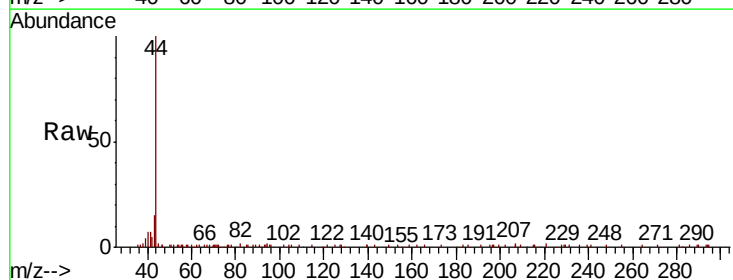
Acq: 5 Jun 2019 17:30

Tgt Ion: 85 Resp: 393

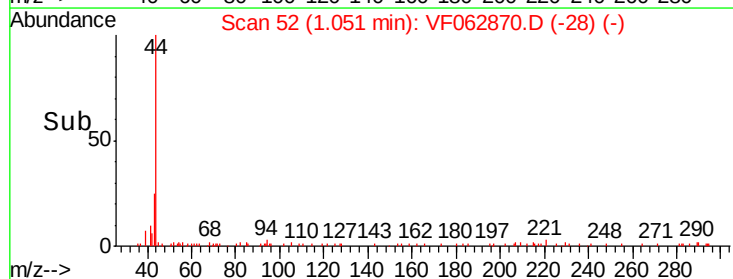
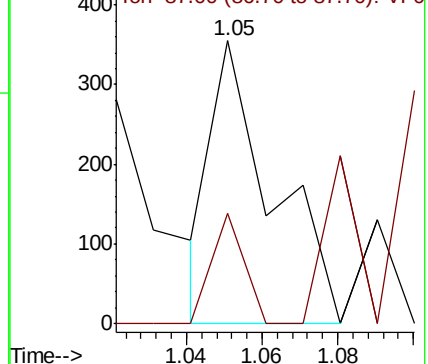
Ion Ratio Lower Upper

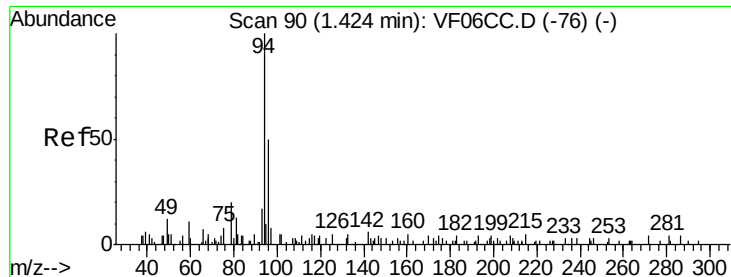
85 100

87 39.2 17.6 52.9



Abundance Ion 85.00 (84.70 to 85.70): VF0





#5

Bromomethane

Concen: 1.165 ug/l

RT: 1.31 min Scan# 78

Delta R.T. -0.10 min

Lab File: VF062870.D

Acq: 5 Jun 2019 17:30

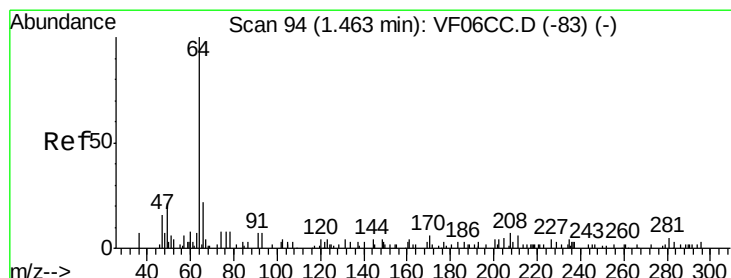
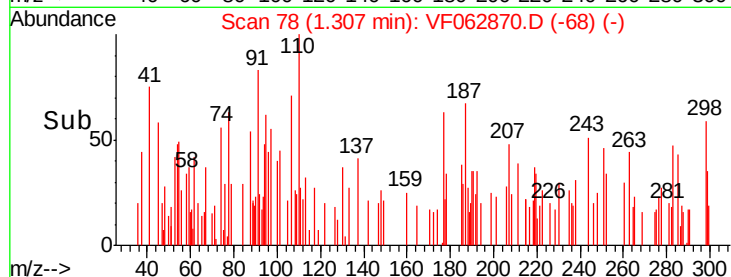
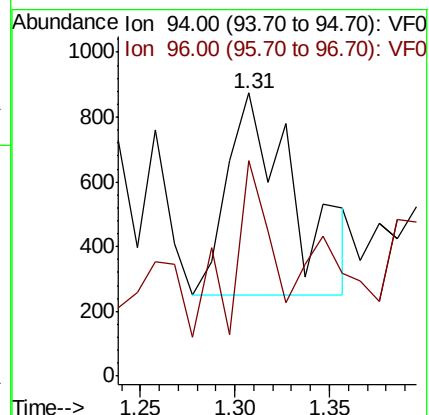
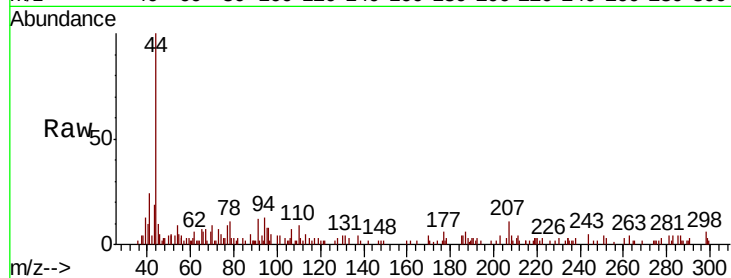
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 94 Resp: 1544

Ion Ratio Lower Upper

94 100

96 76.0 73.8 110.6



#6

Chloroethane

Concen: 1.484 ug/l

RT: 1.47 min Scan# 95

Delta R.T. 0.01 min

Lab File: VF062870.D

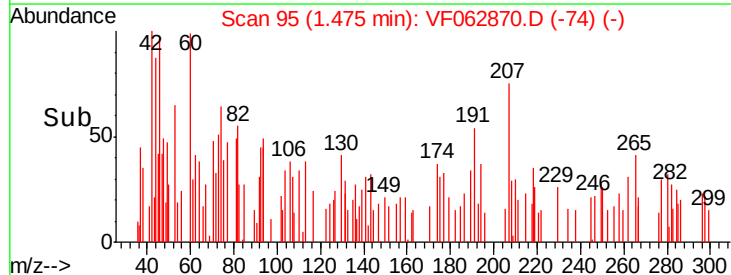
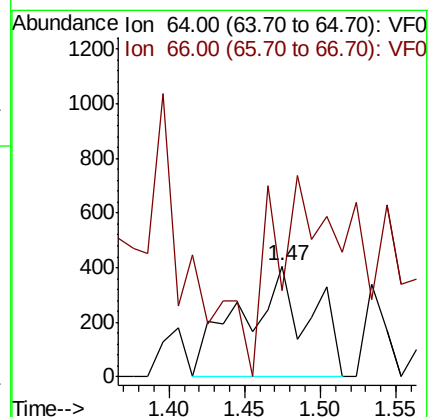
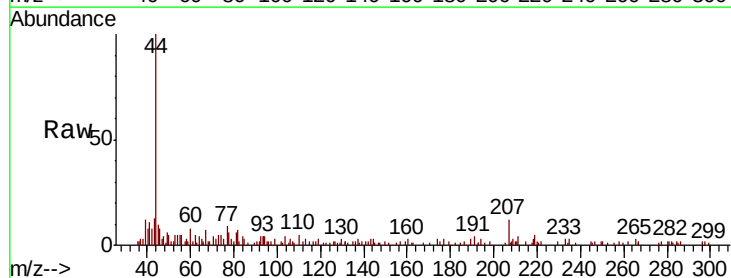
Acq: 5 Jun 2019 17:30

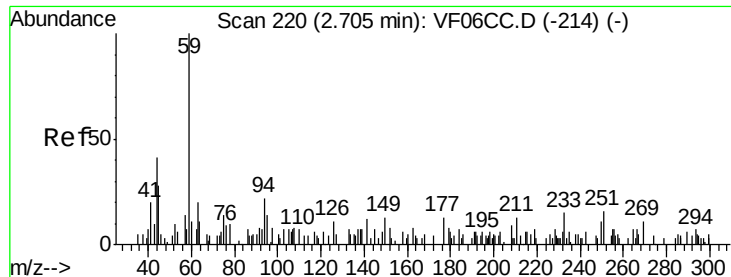
Tgt Ion: 64 Resp: 1289

Ion Ratio Lower Upper

64 100

66 77.1 31.0 46.4#

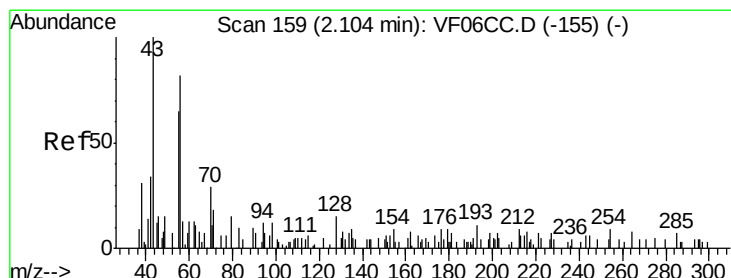
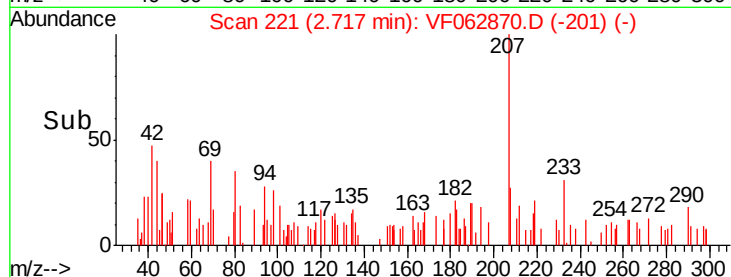
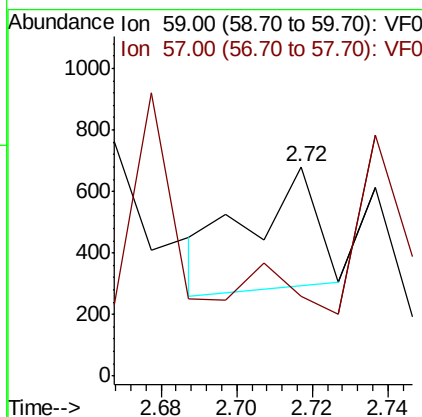
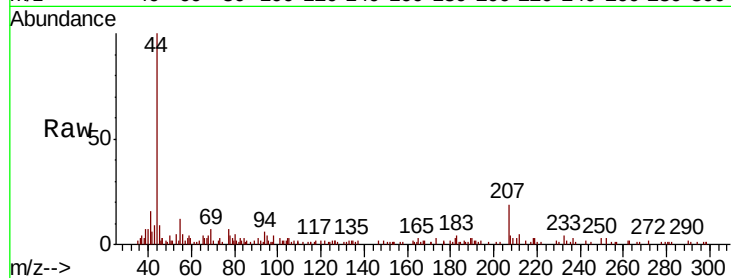




#11
Tert butyl alcohol
Concen: 5.113 ug/l
RT: 2.72 min Scan# 221
Delta R.T. -0.00 min
Lab File: VF062870.D
Acq: 5 Jun 2019 17:30

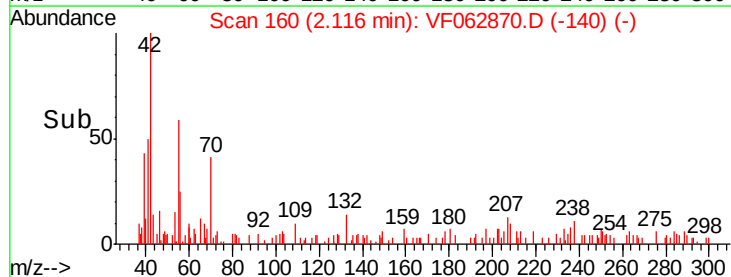
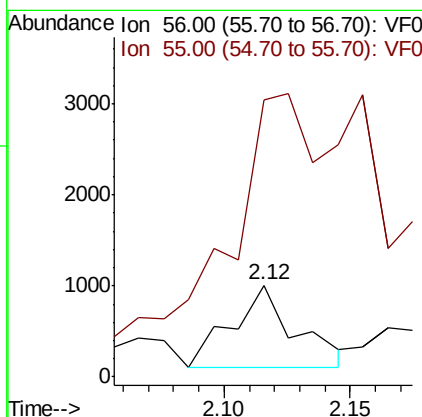
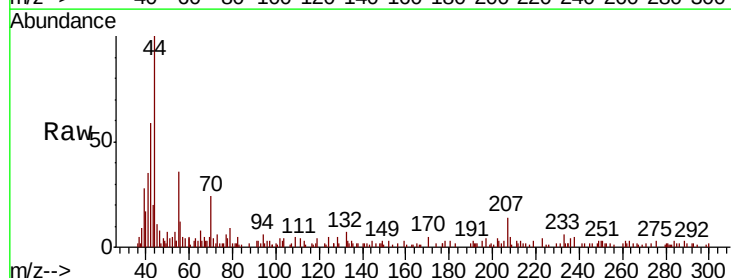
Instrument :
MSVOA_F
ClientSampled :

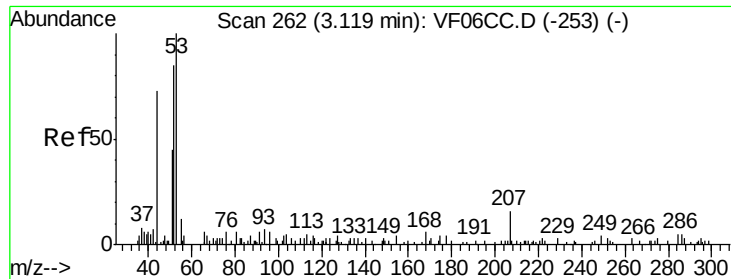
Tot Ion: 59 Resp: 484
Ion Ratio Lower Upper
59 100
57 37.9 9.2 13.8#



#13
Acrolein
Concen: 34.629 ug/l
RT: 2.12 min Scan# 160
Delta R.T. 0.00 min
Lab File: VF062870.D
Acq: 5 Jun 2019 17:30

Tgt Ion: 56 Resp: 1576
Ion Ratio Lower Upper
56 100
55 302.3 52.9 79.3#





#15

Acrylonitrile

Concen: 1.397 ug/l

RT: 3.10 min Scan# 260

Delta R.T. -0.01 min

Lab File: VF062870.D

Acq: 5 Jun 2019 17:30

Instrument :

MSVOA_F

ClientSampleId :

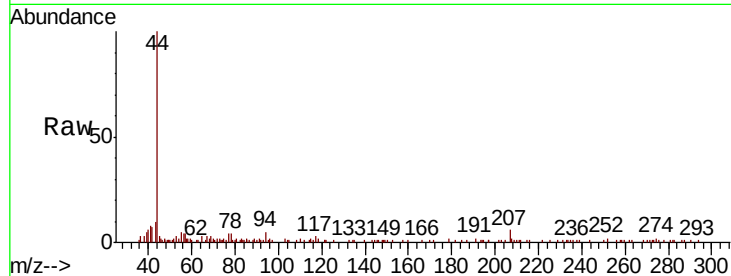
Tot Ion: 53 Resp: 497

Ion Ratio Lower Upper

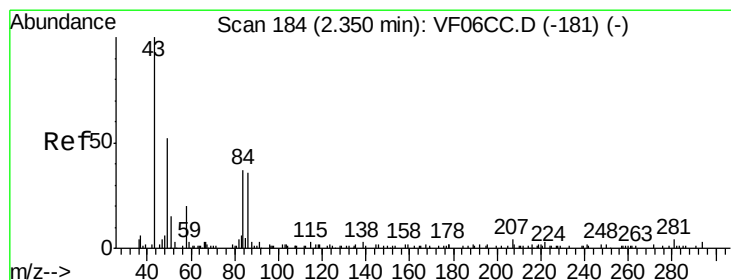
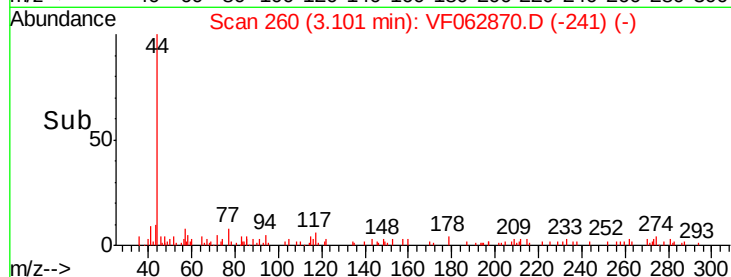
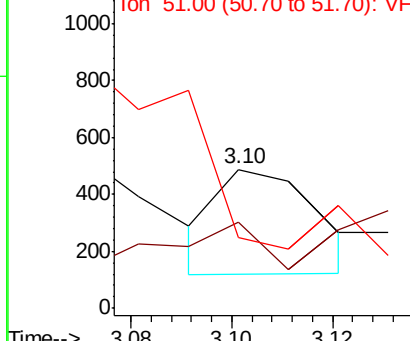
53 100

52 62.3 68.1 102.1#

51 50.6 27.7 41.5#



Abundance Ion 53.00 (52.70 to 53.70): VF0
Ion 52.00 (51.70 to 52.70): VF0
Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 8.436 ug/l

RT: 2.37 min Scan# 186

Delta R.T. 0.01 min

Lab File: VF062870.D

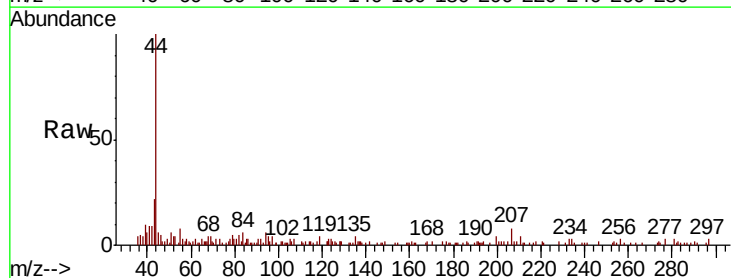
Acq: 5 Jun 2019 17:30

Tgt Ion: 43 Resp: 3017

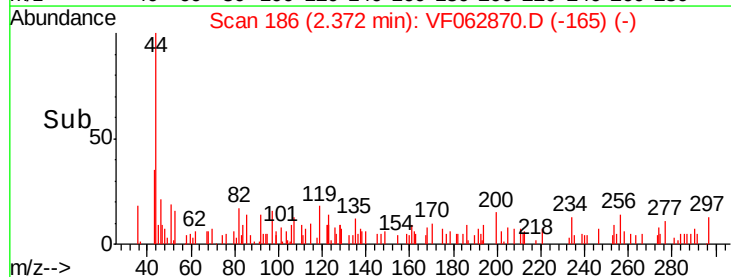
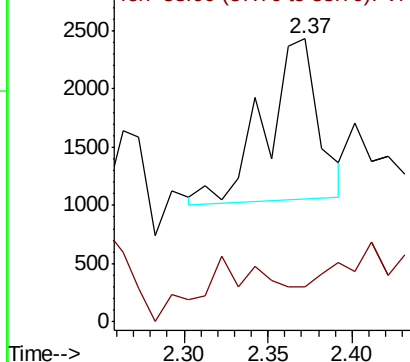
Ion Ratio Lower Upper

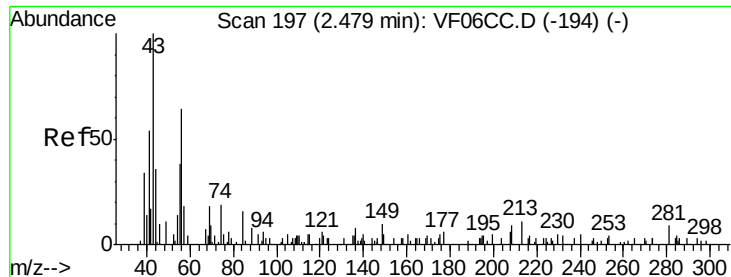
43 100

58 12.5 19.0 28.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

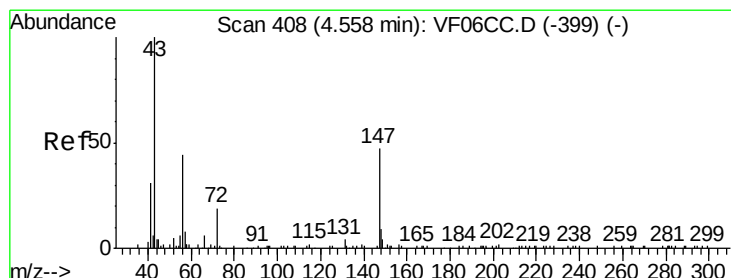
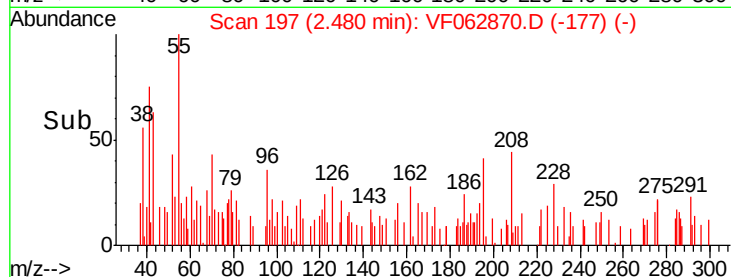
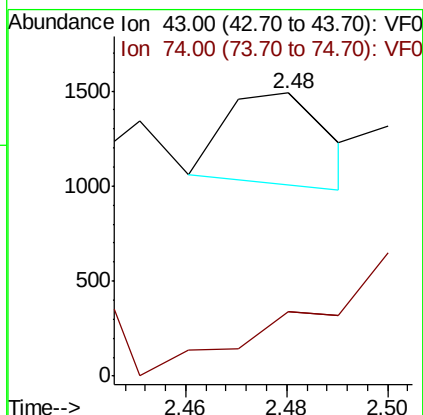
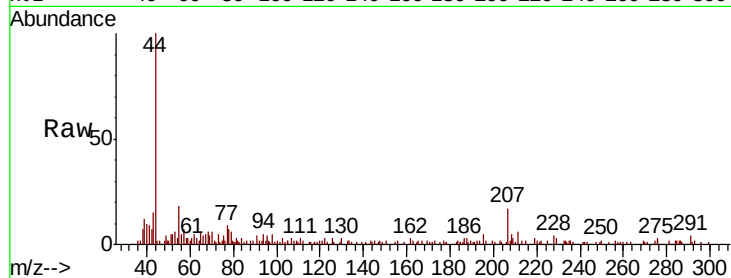




#18
Methyl Acetate
Concen: 1.055 ug/l
RT: 2.48 min Scan# 197
Delta R.T. -0.00 min
Lab File: VF062870.D
Acq: 5 Jun 2019 17:30

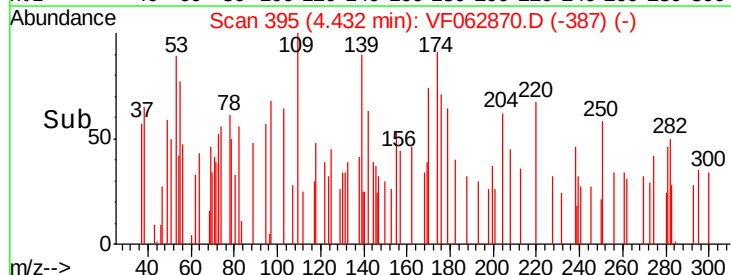
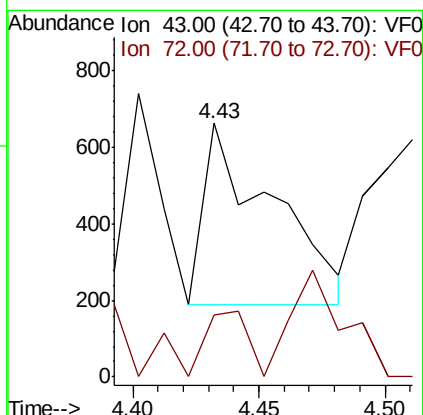
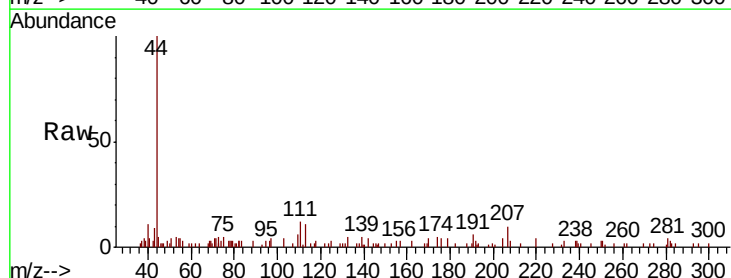
Instrument :
MSVOA_F
ClientSampled :

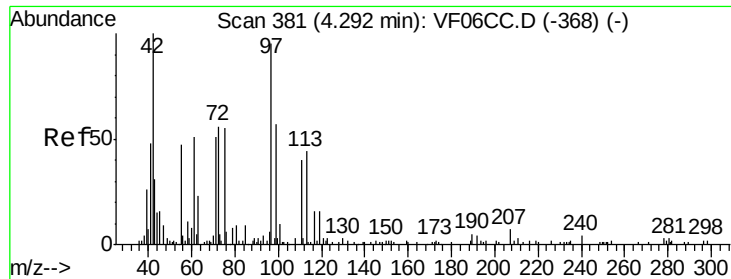
Tot Ion: 43 Resp: 659
Ion Ratio Lower Upper
43 100
74 23.0 22.1 33.1



#25
2-Butanone
Concen: 1.083 ug/l
RT: 4.43 min Scan# 395
Delta R.T. -0.12 min
Lab File: VF062870.D
Acq: 5 Jun 2019 17:30

Tgt Ion: 43 Resp: 902
Ion Ratio Lower Upper
43 100
72 24.3 21.4 32.0

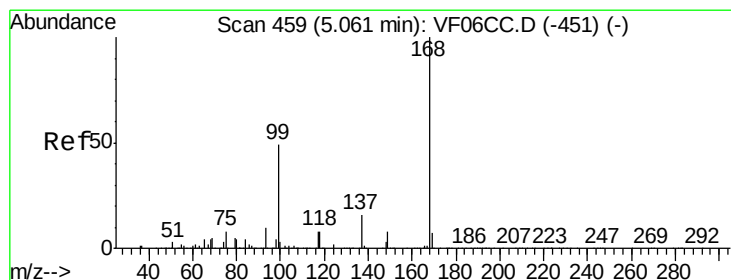
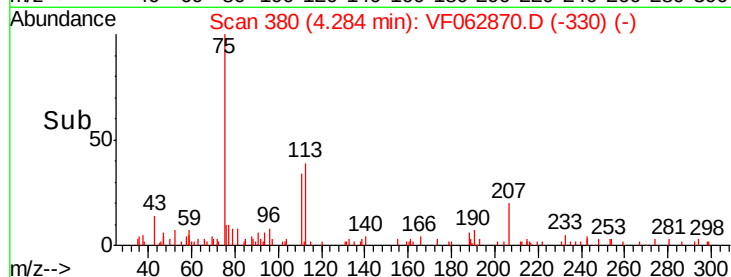
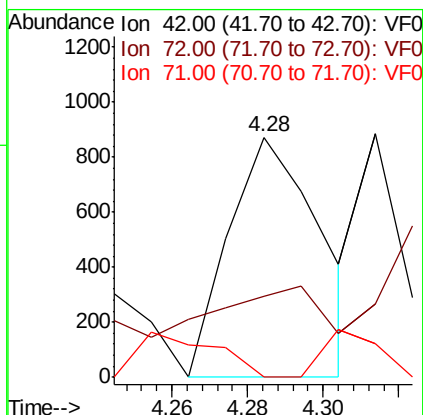
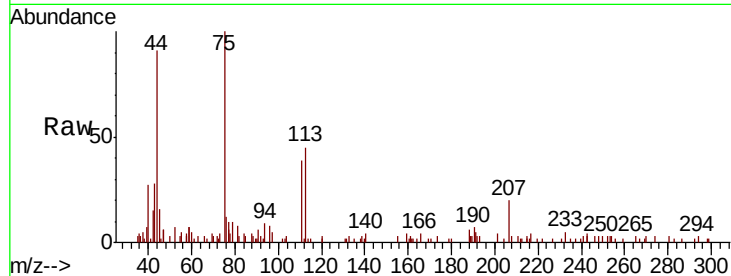




#29
Tetrahydrofuran
Concen: 4.577 ug/l
RT: 4.28 min Scan# 380
Delta R.T. -0.01 min
Lab File: VF062870.D
Acq: 5 Jun 2019 17:30

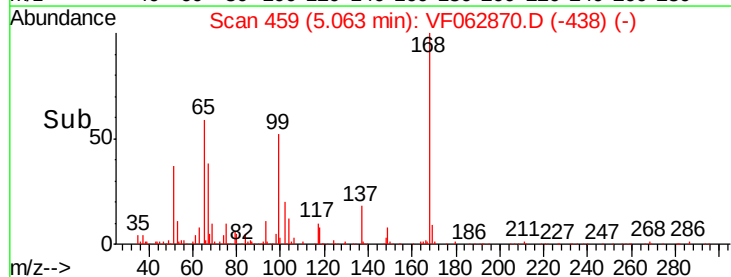
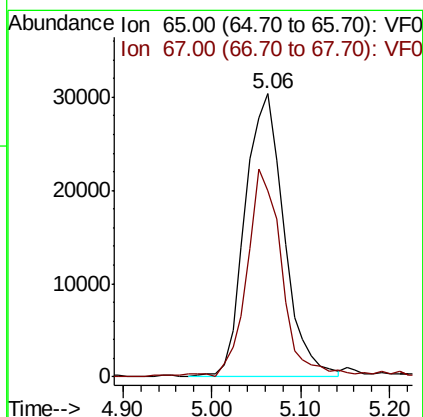
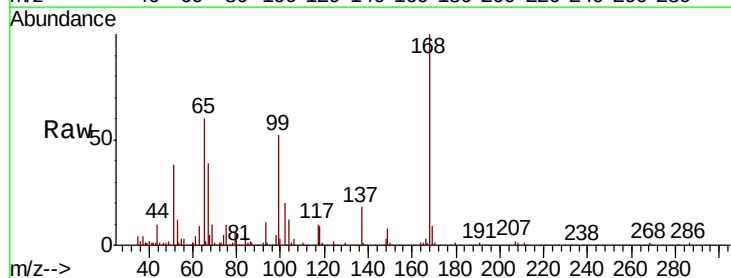
Instrument :
MSVOA_F
ClientSampled :

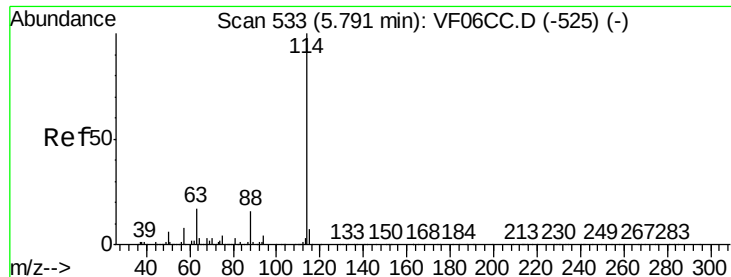
Tot Ion: 42 Resp: 1458
Ion Ratio Lower Upper
42 100
72 50.7 39.0 58.6
71 12.0 36.9 55.3#



#33
1,2-Dichloroethane-d4
Concen: 58.829 ug/l
RT: 5.06 min Scan# 459
Delta R.T. 0.01 min
Lab File: VF062870.D
Acq: 5 Jun 2019 17:30

Tgt Ion: 65 Resp: 91920
Ion Ratio Lower Upper
65 100
67 65.6 0.0 121.2

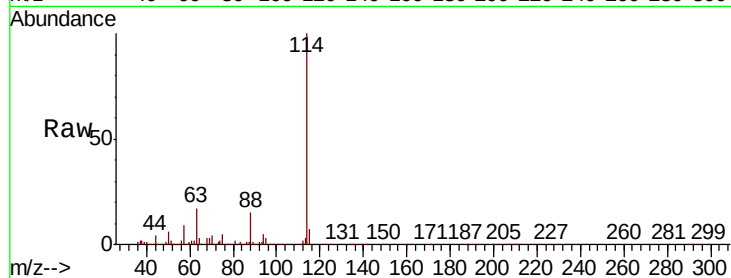




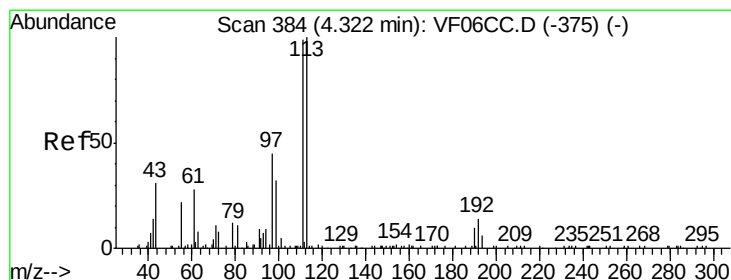
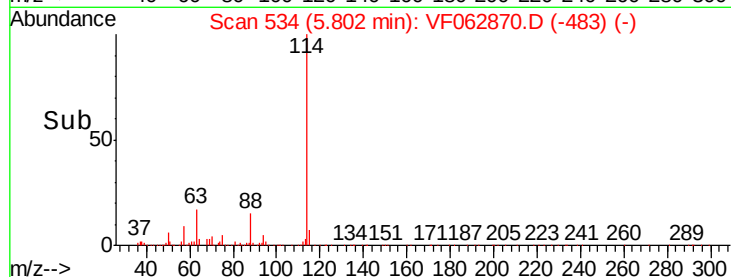
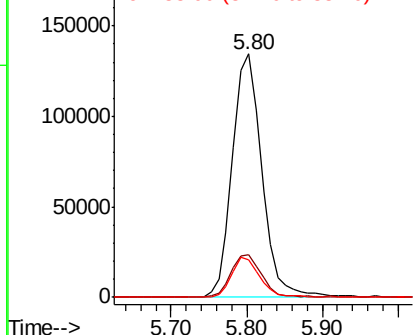
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.80 min Scan# 534
Delta R.T. -0.00 min
Lab File: VF062870.D
Acq: 5 Jun 2019 17:30

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	17.3	0.0	34.2
88	15.3	0.0	31.2

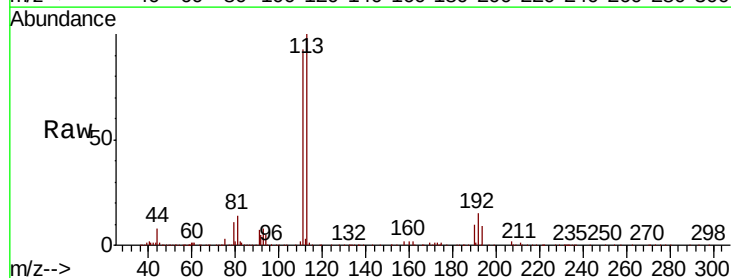


Abundance Ion 114.00 (113.70 to 114.70): V
Ion 63.00 (62.70 to 63.70): VF0
Ion 88.00 (87.70 to 88.70): VF0

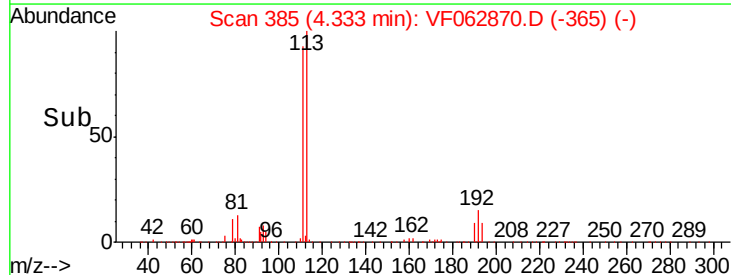
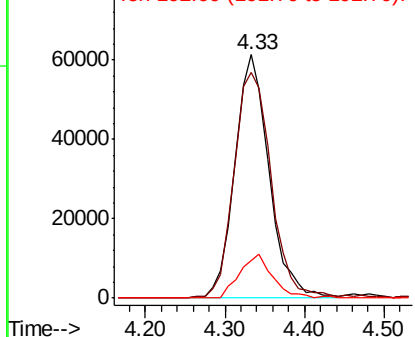


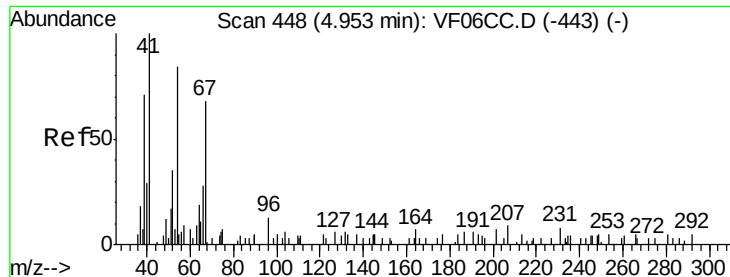
#35
Dibromofluoromethane
Concen: 66.782 ug/l
RT: 4.33 min Scan# 385
Delta R.T. -0.00 min
Lab File: VF062870.D
Acq: 5 Jun 2019 17:30

Tgt Ion	Ratio	Lower	Upper
113	100		
111	92.5	81.9	122.9
192	15.3	15.1	22.7



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





#41

Methacrylonitrile

Concen: 1.704 ug/l

RT: 4.98 min Scan# 451

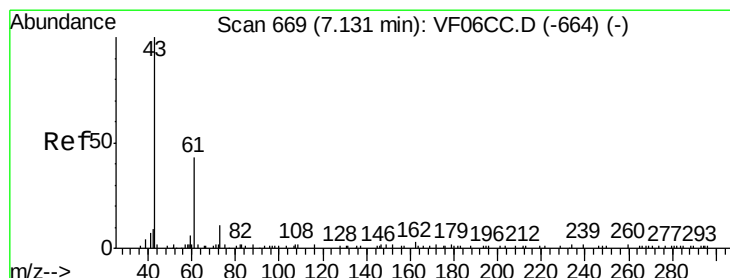
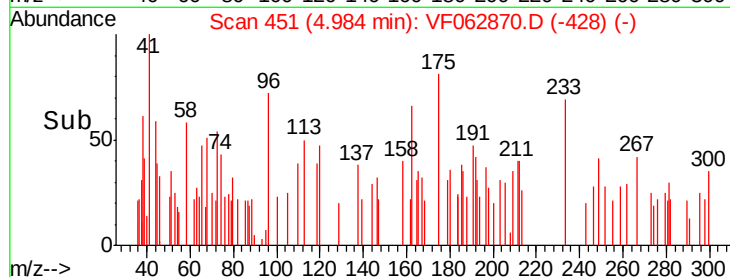
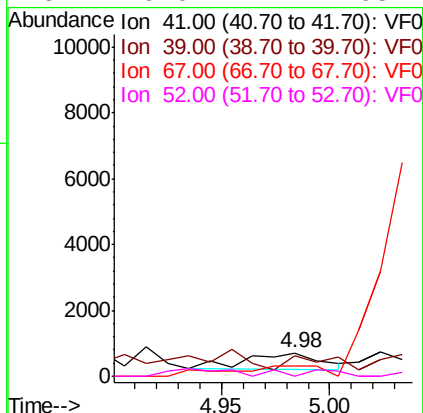
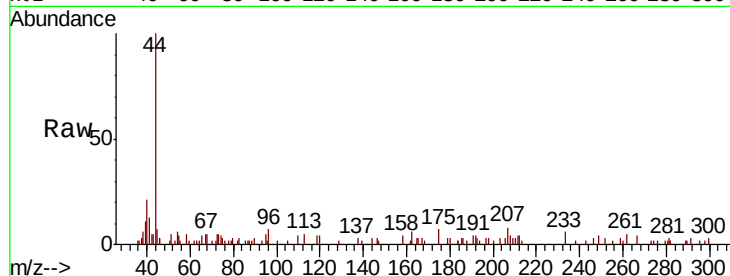
Delta R.T. 0.03 min

Lab File: VF062870.D

Acq: 5 Jun 2019 17:30

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	41	Resp:	1212
Ion	Ratio	Lower	Upper
41	100		
39	89.2	42.0	63.0#
67	79.0	61.4	92.0
52	0.0	42.1	63.1#



#43

Isopropyl Acetate

Concen: 1.689 ug/l

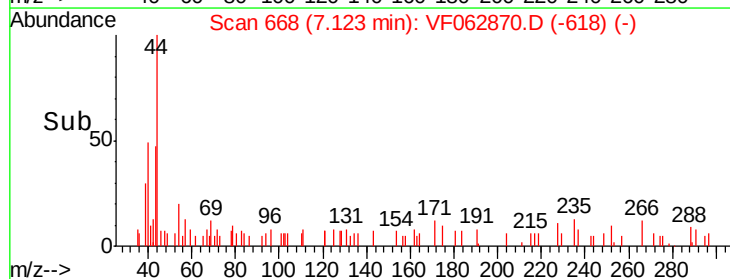
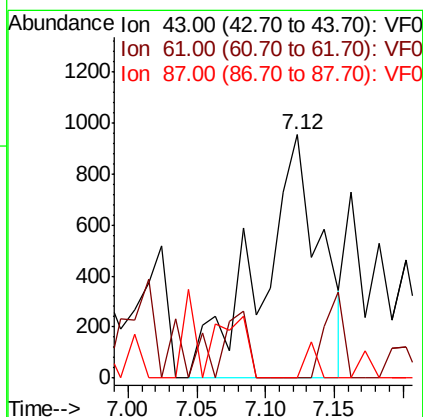
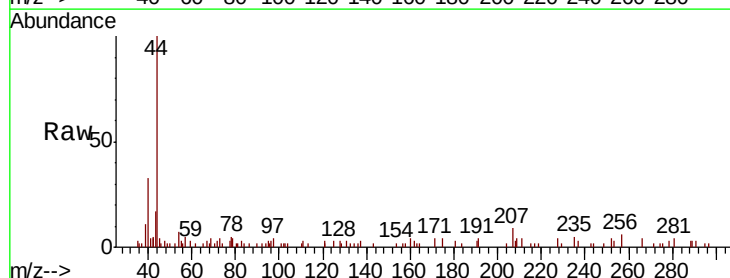
RT: 7.12 min Scan# 668

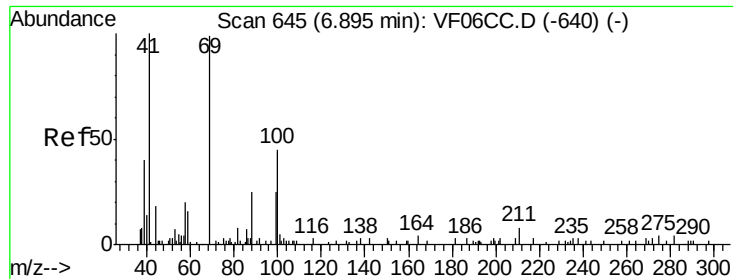
Delta R.T. -0.01 min

Lab File: VF062870.D

Acq: 5 Jun 2019 17:30

Tgt Ion:	43	Resp:	2855
Ion	Ratio	Lower	Upper
43	100		
61	0.0	29.8	44.6#
87	0.0	0.3	0.5#

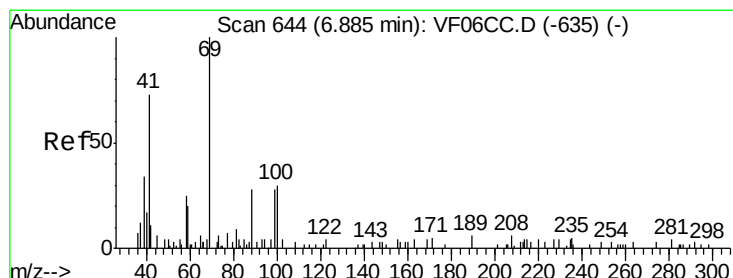
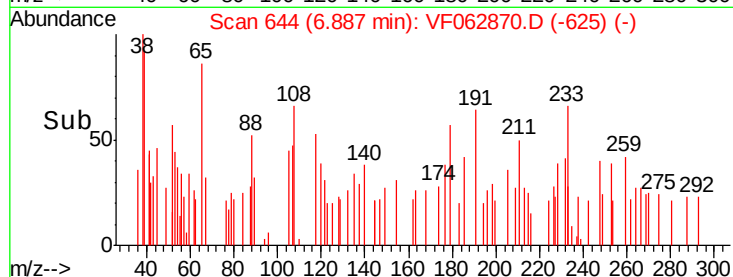
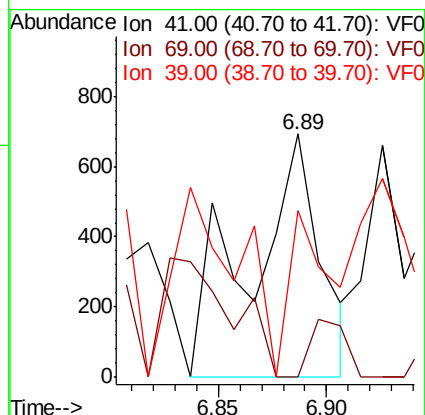
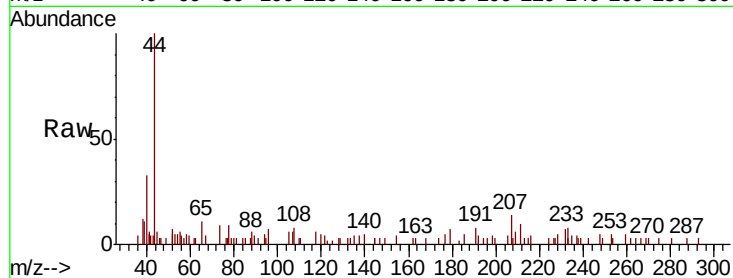




#48
Methyl methacrylate
Concen: 1.787 ug/l
RT: 6.89 min Scan# 644
Delta R.T. -0.01 min
Lab File: VF062870.D
Acq: 5 Jun 2019 17:30

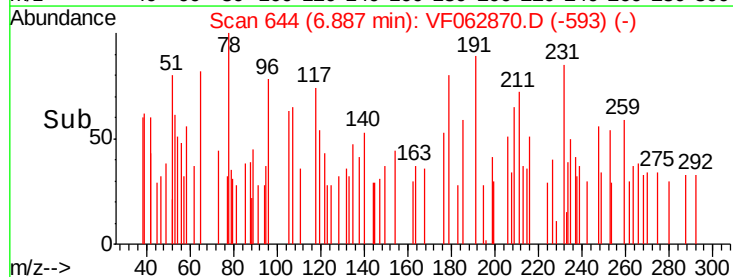
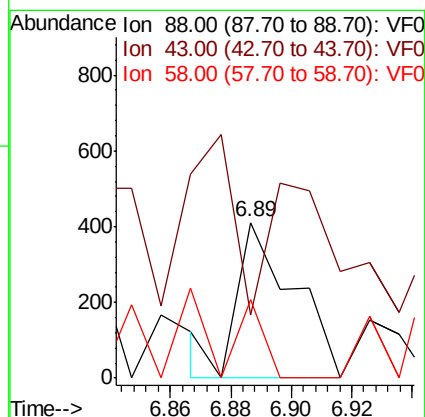
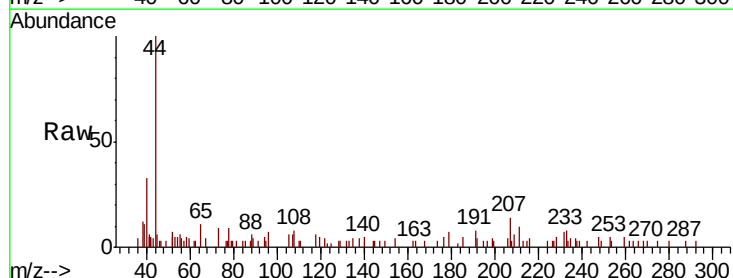
Instrument :
MSVOA_F
ClientSampleId :

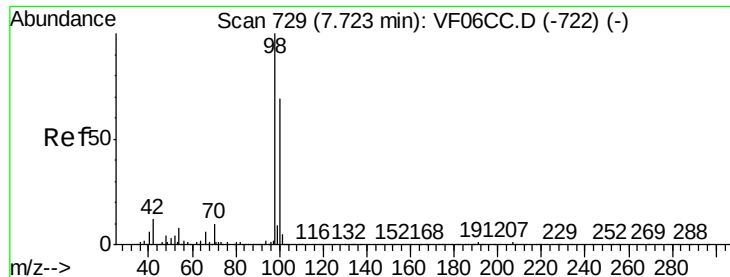
Tot Ion: 41 Resp: 1557
Ion Ratio Lower Upper
41 100
69 0.0 79.4 119.2#
39 68.3 39.8 59.6#



#49
1,4-Dioxane
Concen: 45.630 ug/l
RT: 6.89 min Scan# 644
Delta R.T. -0.00 min
Lab File: VF062870.D
Acq: 5 Jun 2019 17:30

Tgt Ion: 88 Resp: 524
Ion Ratio Lower Upper
88 100
43 40.9 34.8 52.2
58 50.1 59.9 89.9#

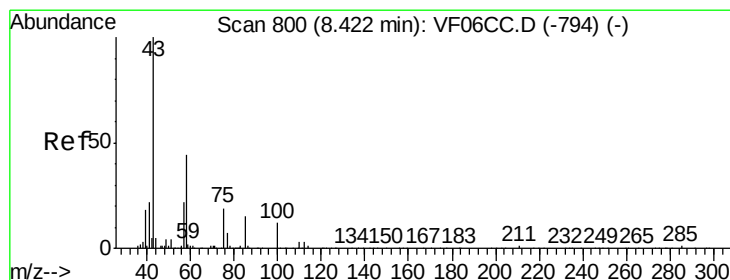
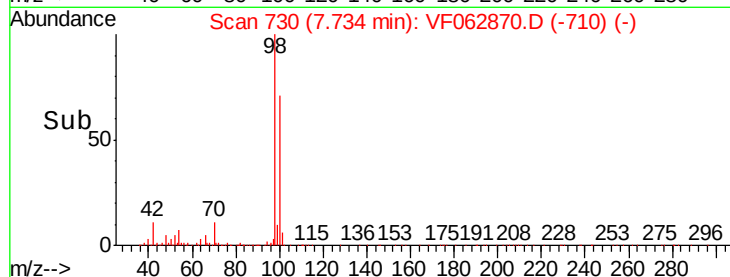
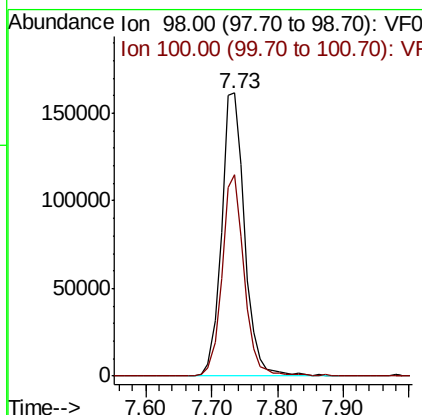
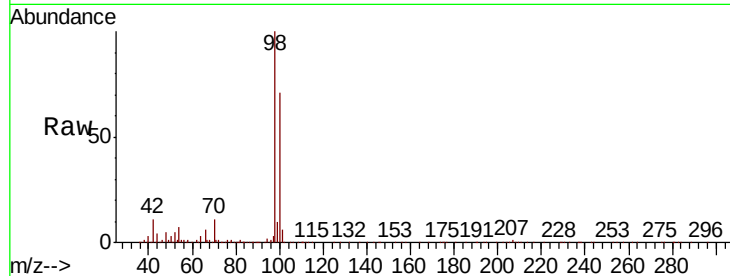




#50
Toluene-d8
Concen: 57.137 ug/l
RT: 7.73 min Scan# 730
Delta R.T. -0.00 min
Lab File: VF062870.D
Acq: 5 Jun 2019 17:30

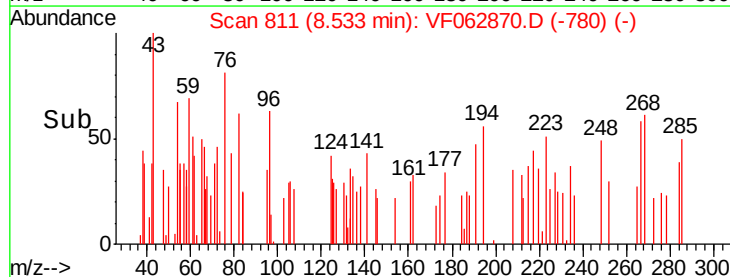
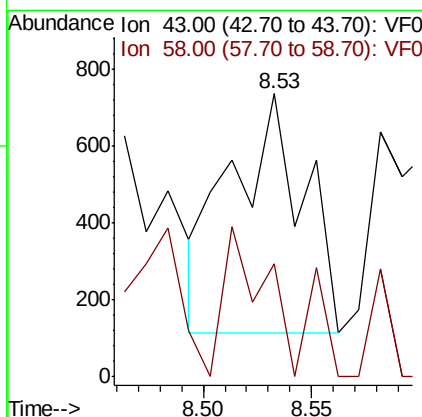
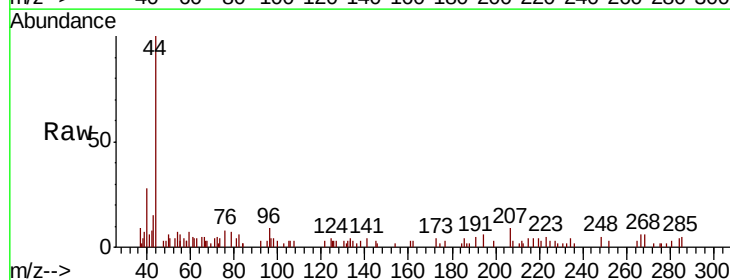
Instrument :
MSVOA_F
ClientSampleId :

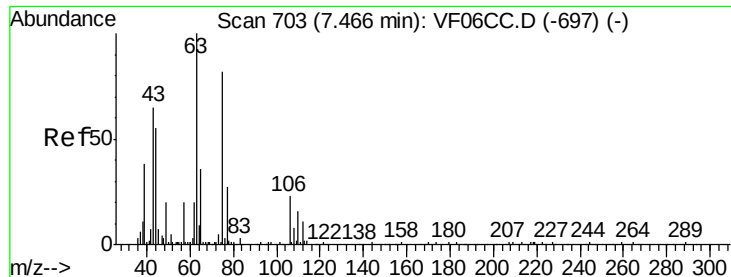
Tot Ion: 98 Resp: 397027
Ion Ratio Lower Upper
98 100
100 71.2 59.8 89.8



#51
4-Methyl-2-Pentanone
Concen: 1.219 ug/l
RT: 8.53 min Scan# 811
Delta R.T. 0.11 min
Lab File: VF062870.D
Acq: 5 Jun 2019 17:30

Tgt Ion: 43 Resp: 1471
Ion Ratio Lower Upper
43 100
58 39.9 35.5 53.3

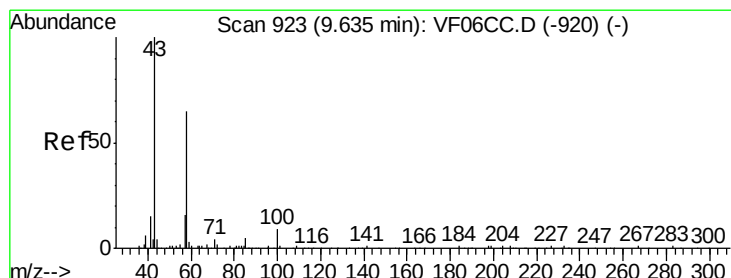
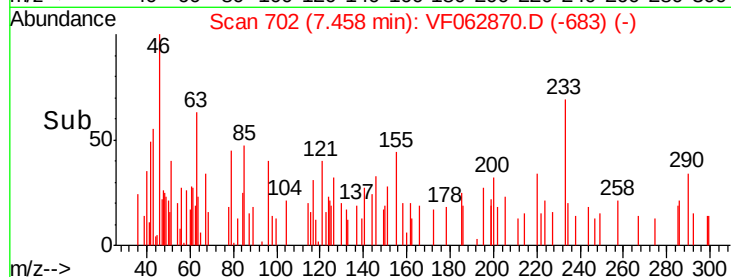
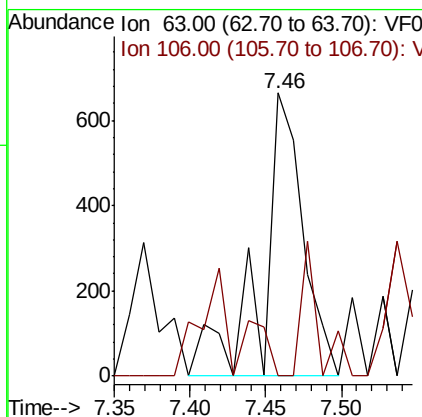
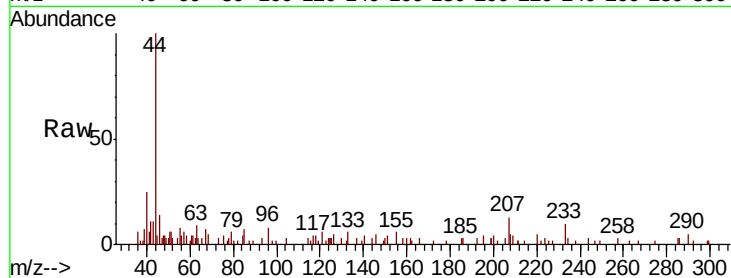




#58
2-Chloroethyl Vinyl ether
Concen: 2.111 ug/l
RT: 7.46 min Scan# 702
Delta R.T. -0.01 min
Lab File: VF062870.D
Acq: 5 Jun 2019 17:30

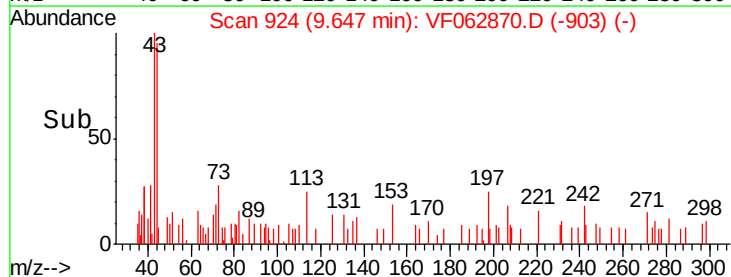
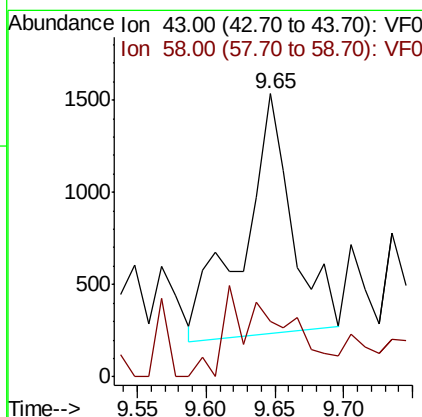
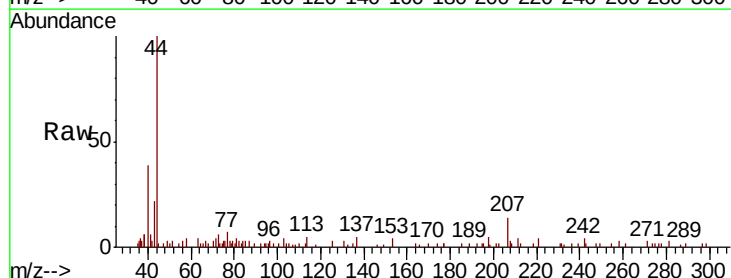
Instrument :
MSVOA_F
ClientSampleId :

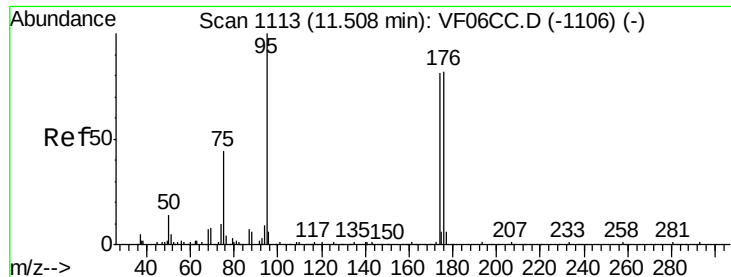
Tot Ion: 63 Resp: 1241
Ion Ratio Lower Upper
63 100
106 0.0 19.5 29.3#



#59
2-Hexanone
Concen: 3.748 ug/l
RT: 9.65 min Scan# 924
Delta R.T. 0.01 min
Lab File: VF062870.D
Acq: 5 Jun 2019 17:30

Tgt Ion: 43 Resp: 3224
Ion Ratio Lower Upper
43 100
58 19.6 29.3 87.9#

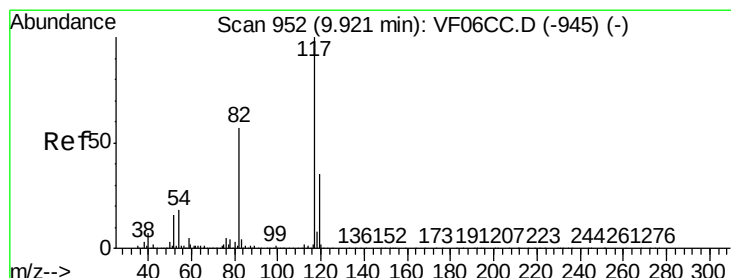
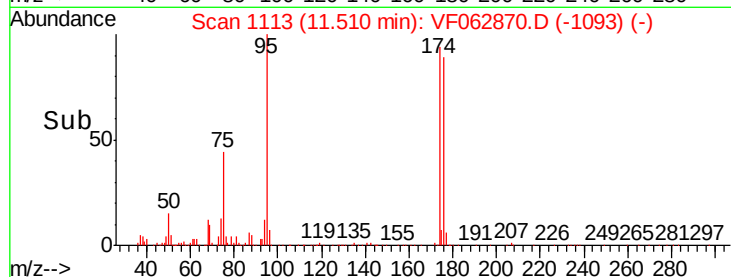
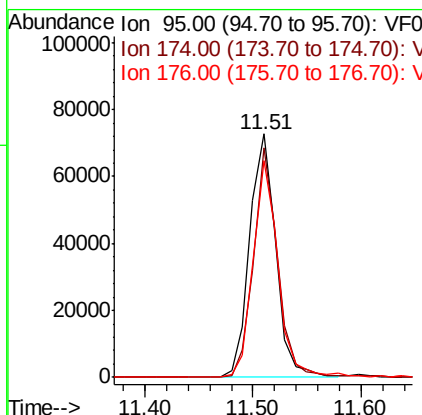
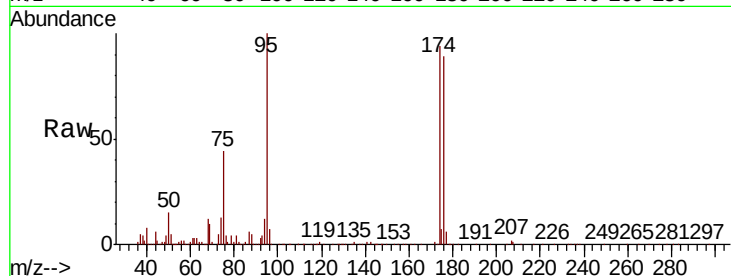




#62
4-Bromofluorobenzene
Concen: 49.104 ug/l
RT: 11.51 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VF062870.D
Acq: 5 Jun 2019 17:30

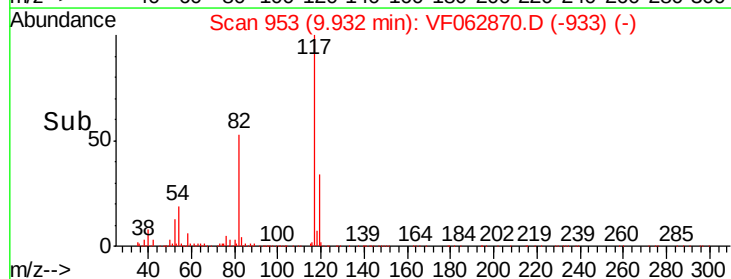
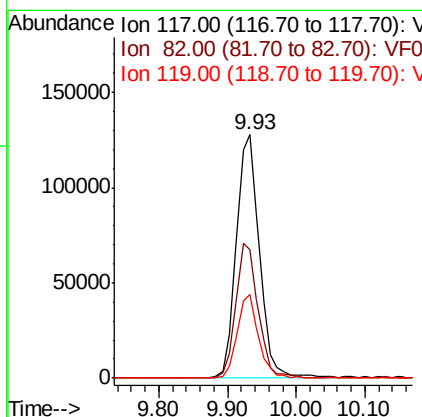
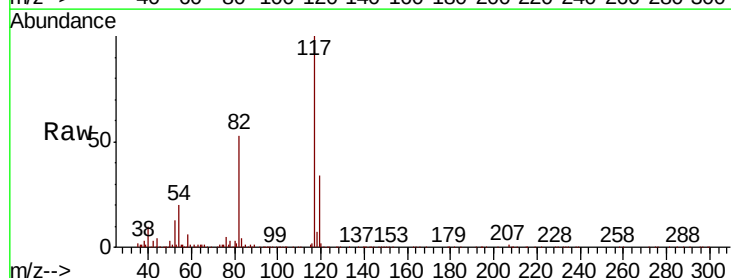
Instrument :
MSVOA_F
ClientSampleId :

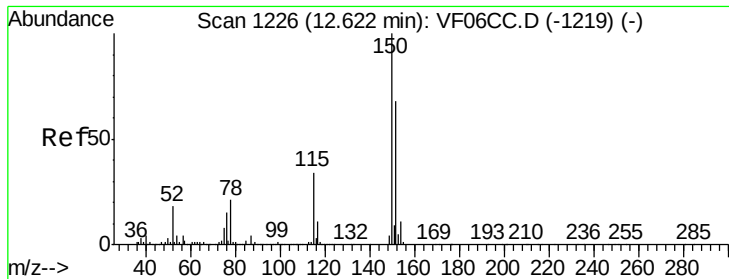
Tot Ion	Ratio	Lower	Upper
95	100		
174	94.4	0.0	170.6
176	88.8	0.0	170.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.93 min Scan# 953
Delta R.T. -0.00 min
Lab File: VF062870.D
Acq: 5 Jun 2019 17:30

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.9	42.4	63.6
119	34.2	27.1	40.7

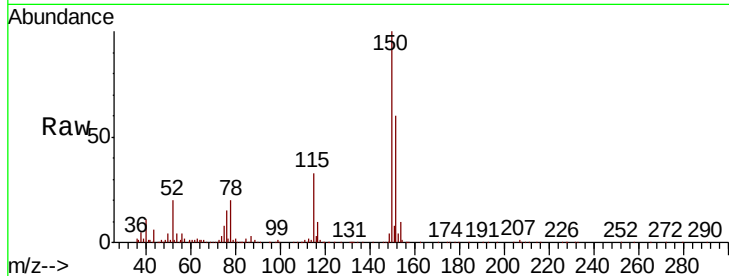




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.62 min Scan# 1226
 Delta R.T. -0.00 min
 Lab File: VF062870.D
 Acq: 5 Jun 2019 17:30

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	54.8	24.6	74.0
150	168.0	0.0	290.6

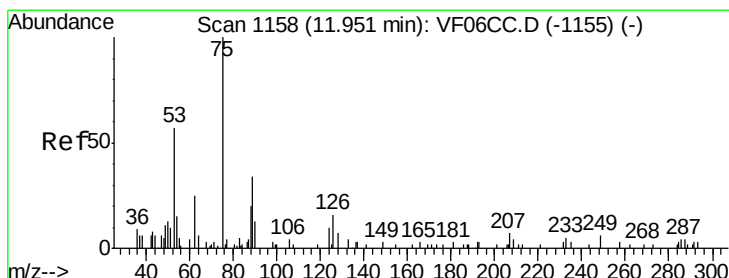
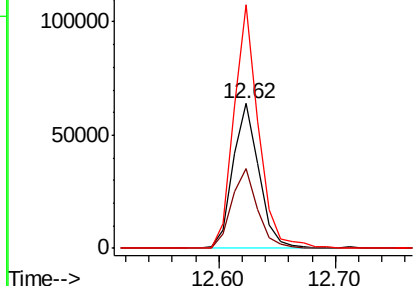
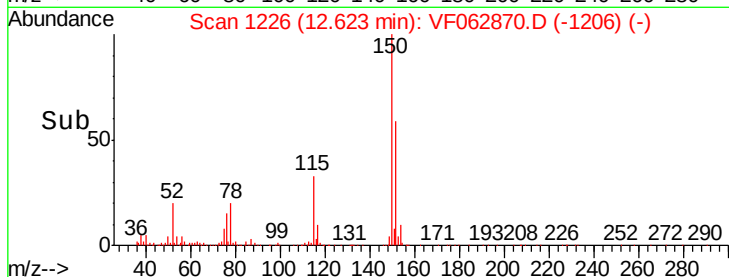


Abundance

Ion 152.00 (151.70 to 152.70): V

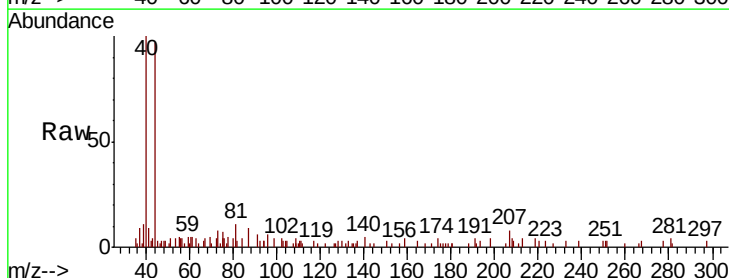
Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#81
 trans-1,4-Dichloro-2-butene
 Concen: 1.732 ug/l
 RT: 11.97 min Scan# 1160
 Delta R.T. 0.02 min
 Lab File: VF062870.D
 Acq: 5 Jun 2019 17:30

Tgt Ion	Ratio	Lower	Upper
75	100		
53	40.2	43.5	65.3#
89	0.0	34.3	51.5#

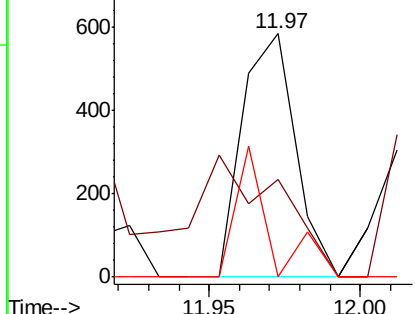
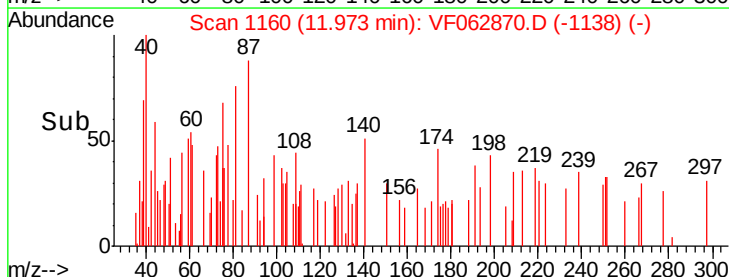


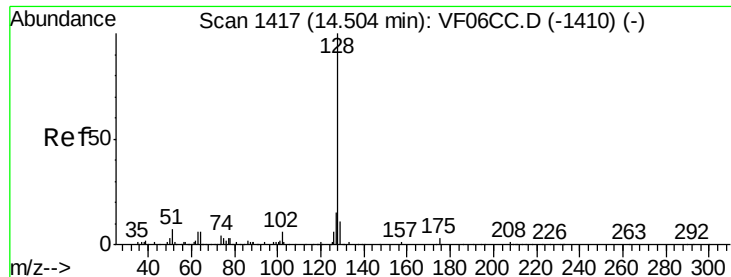
Abundance

Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0

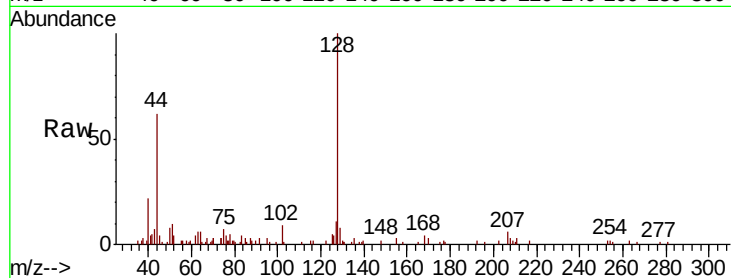




#95
Naphthalene
Concen: 4.797 ug/l
RT: 14.51 min Scan# 1417
Delta R.T. -0.00 min
Lab File: VF062870.D
Acq: 5 Jun 2019 17:30

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	10.9	9.7	14.5
129	7.8	9.4	14.2#



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

