

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052819\
 Data File : VF062770.D
 Acq On : 28 May 2019 19:45
 Operator : FY/SY
 Sample : K3072-06
 Misc : 6.07g/5mL/MSVOA F/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-6

Quant Time: May 29 01:50:19 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	5.07	168	225345	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.79	114	294665	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.93	117	194833	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.62	152	63944	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.04	65	26691	16.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	33.52%	
35) Dibromofluoromethane	4.32	113	73188	32.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	64.92%	
50) Toluene-d8	7.73	98	208145	38.66	ug/l	0.01
Spiked Amount	50.000		Recovery	=	77.32%	
62) 4-Bromofluorobenzene	11.51	95	48794	23.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	47.80%	

Target Compounds

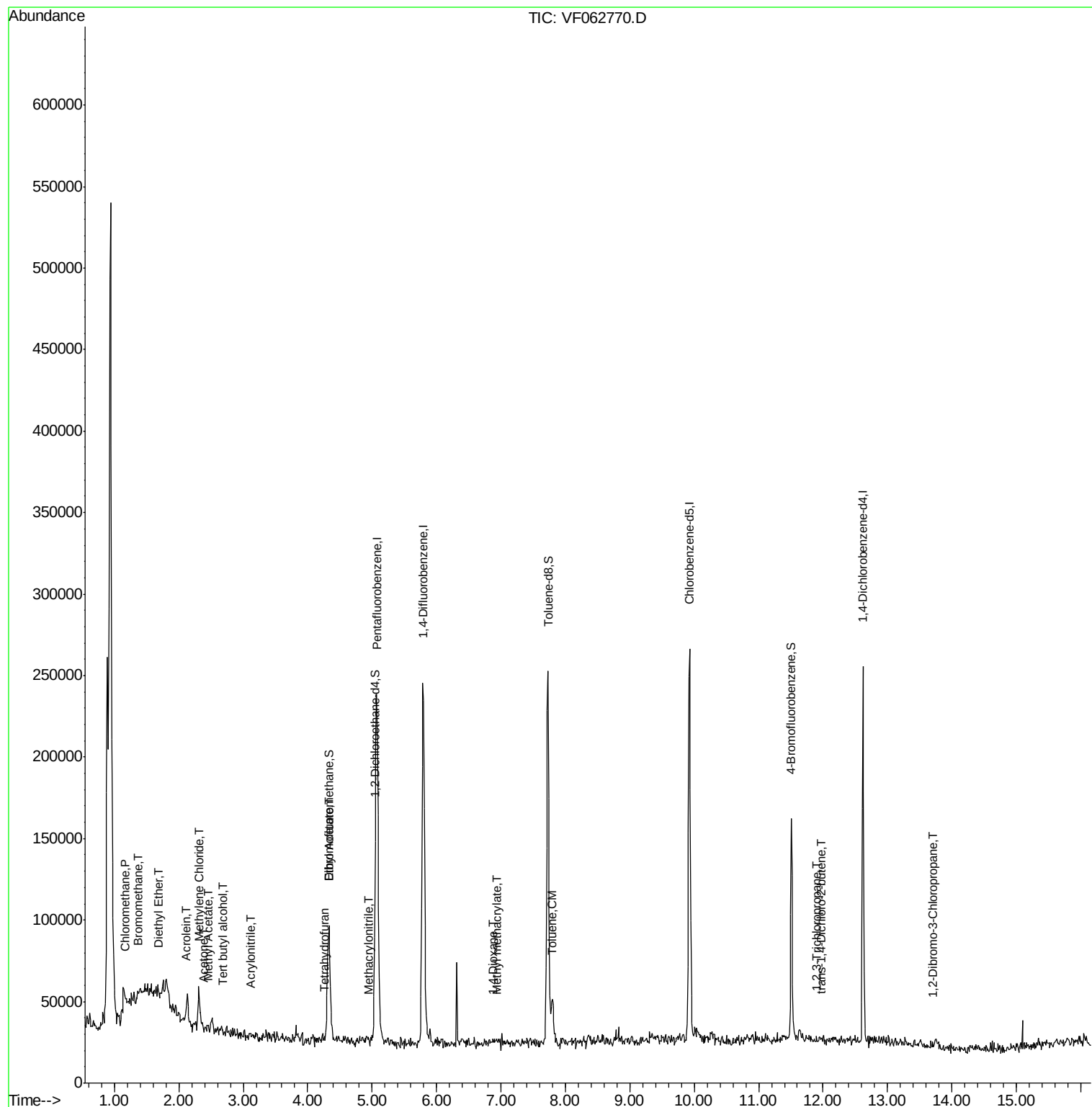
						Qvalue
3) Chloromethane	1.17	50	2976	1.054	ug/l	96
5) Bromomethane	1.35	94	2327	1.637	ug/l	84
8) Diethyl Ether	1.70	74	1039	1.503	ug/l	66
11) Tert butyl alcohol	2.68	59	663	6.306	ug/l #	1
13) Acrolein	2.10	56	1052	9.586	ug/l #	30
15) Acrylonitrile	3.12	53	991	3.342	ug/l #	60
16) Acetone	2.39	43	2124	5.141	ug/l	98
18) Methyl Acetate	2.46	43	945	1.456	ug/l #	78
20) Methylene Chloride	2.31	84	12022	5.806	ug/l #	89
29) Tetrahydrofuran	4.26	42	1238	3.466	ug/l #	59
37) Ethyl Acetate	4.33	43	2290	1.858	ug/l #	24
41) Methacrylonitrile	4.96	41	1067	1.651	ug/l #	62
48) Methyl methacrylate	6.92	41	2092	2.506	ug/l #	21
49) 1,4-Dioxane	6.86	88	212	19.827	ug/l #	1
52) Toluene	7.79	92	16520	3.829	ug/l #	74
59) 2-Hexanone	9.73	43	878	Below Cal		68
74) N-amyl acetate	11.47	43	1344	Below Cal	#	59
76) 1,2,3-Trichloropropane	11.90	75	682	1.108	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.98	75	550	2.011	ug/l #	54
92) 1,2-Dibromo-3-Chloropropan	13.71	75	261	2.336	ug/l #	11

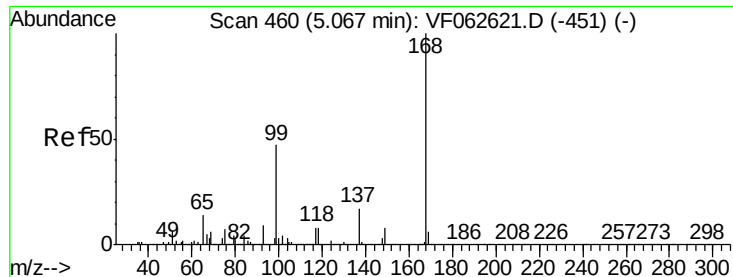
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri May 17 05:49:09 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 460

Delta R.T. 0.00 min

Lab File: VF062770.D

Acq: 28 May 2019 19:45

Instrument :

MSVOA_F

ClientSampled :

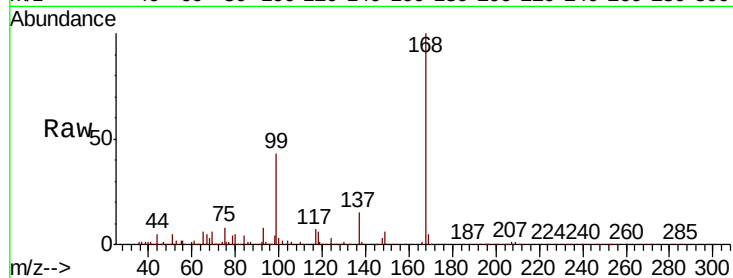
TP-6

Tot Ion:168 Resp: 225345

Ion Ratio Lower Upper

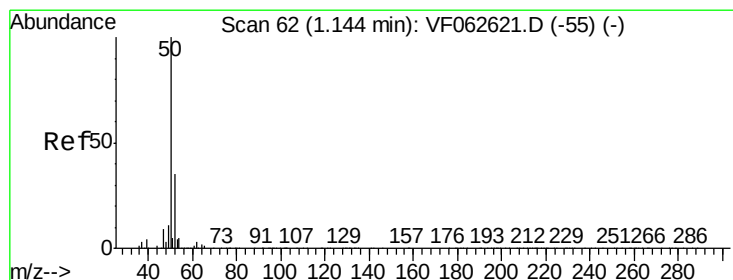
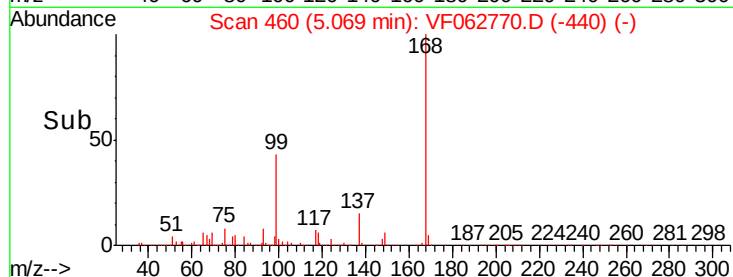
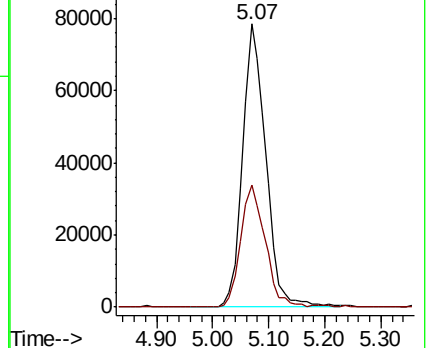
168 100

99 43.3 37.8 56.8



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 1.054 ug/l

RT: 1.17 min Scan# 64

Delta R.T. 0.02 min

Lab File: VF062770.D

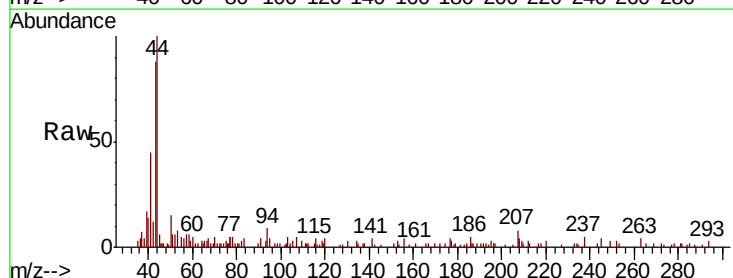
Acq: 28 May 2019 19:45

Tgt Ion: 50 Resp: 2976

Ion Ratio Lower Upper

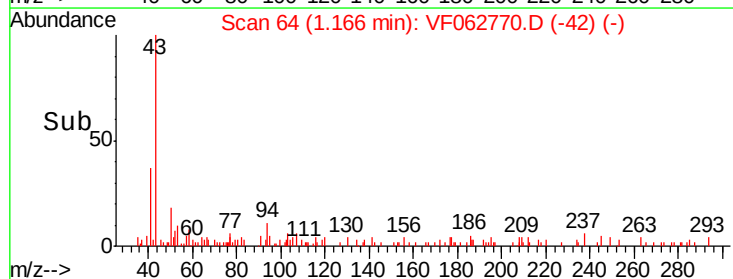
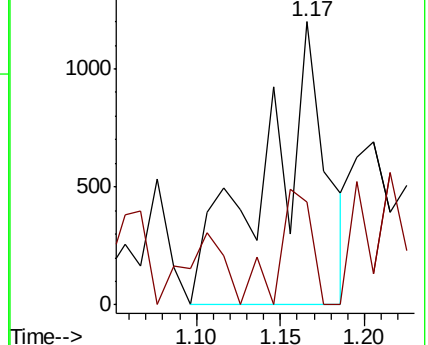
50 100

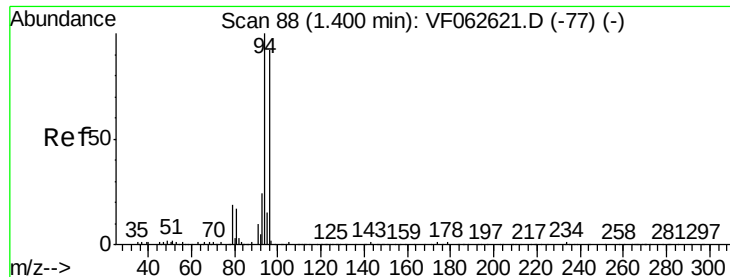
52 36.4 27.5 41.3



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0





#5

Bromomethane

Concen: 1.637 ug/l

RT: 1.35 min Scan# 83

Delta R.T. -0.05 min

Lab File: VF062770.D

Acq: 28 May 2019 19:45

Instrument :

MSVOA_F

ClientSampled :

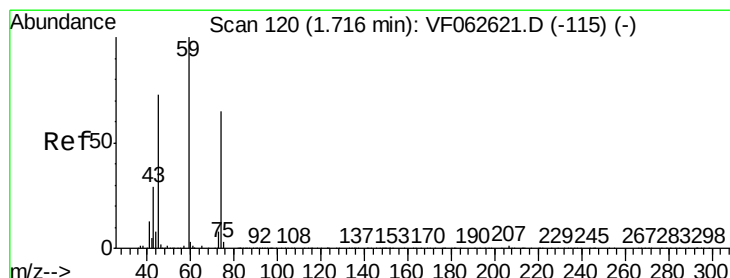
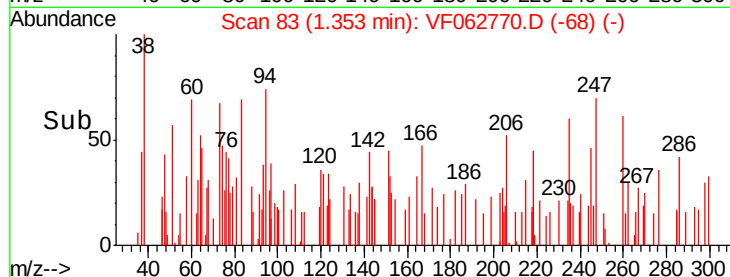
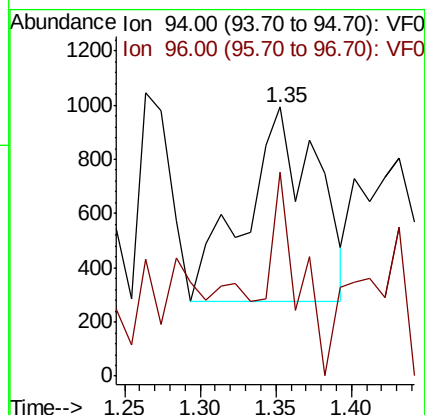
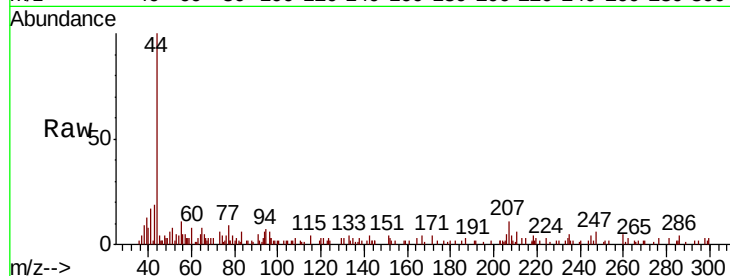
TP-6

Tot Ion: 94 Resp: 2327

Ion Ratio Lower Upper

94 100

96 76.0 73.2 109.8



#8

Diethyl Ether

Concen: 1.503 ug/l

RT: 1.70 min Scan# 118

Delta R.T. -0.02 min

Lab File: VF062770.D

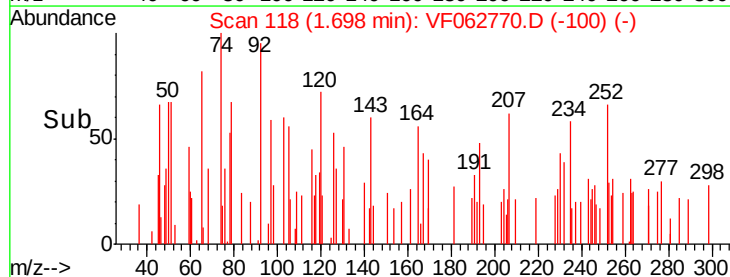
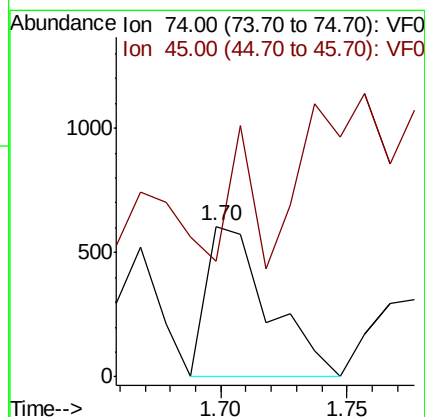
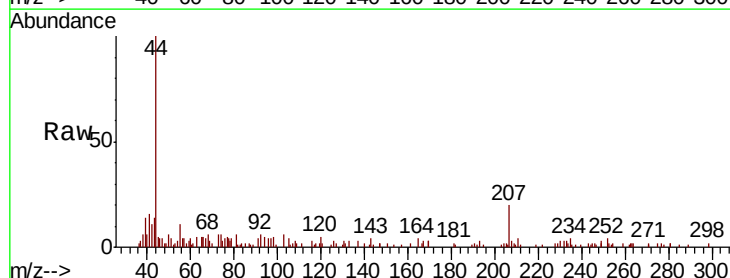
Acq: 28 May 2019 19:45

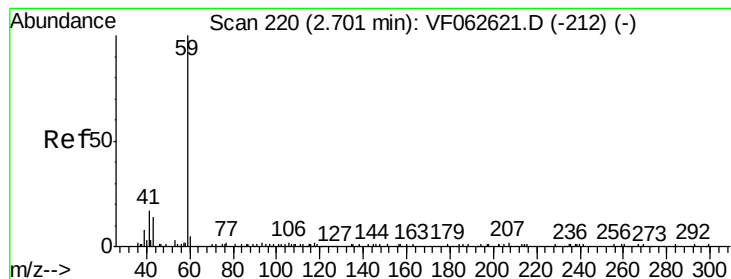
Tgt Ion: 74 Resp: 1039

Ion Ratio Lower Upper

74 100

45 76.7 57.0 170.8



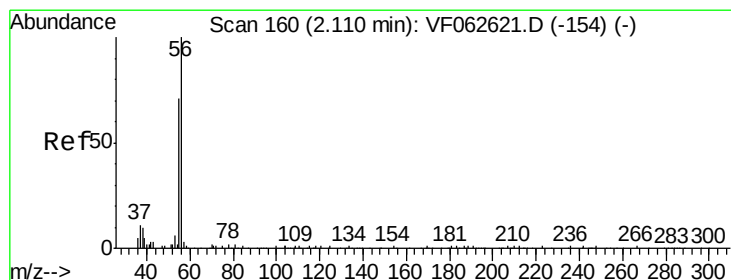
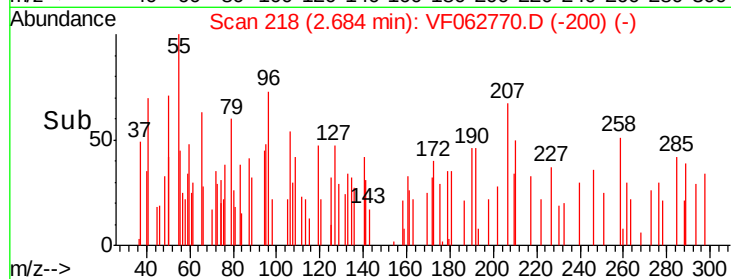
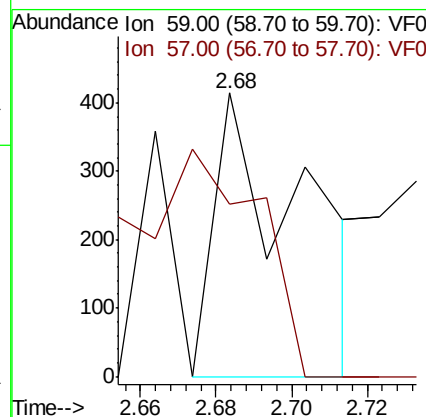
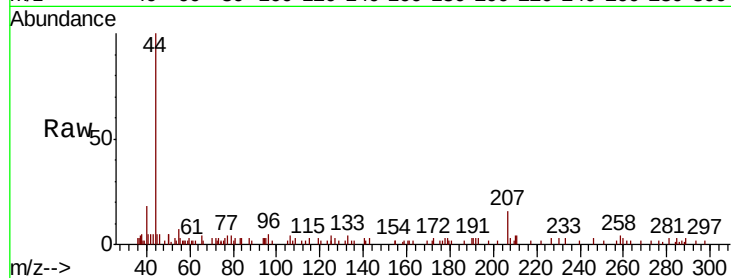


#11

Tert butyl alcohol
Concen: 6.306 ug/l
RT: 2.68 min Scan# 218
Delta R.T. -0.02 min
Lab File: VF062770.D
Acq: 28 May 2019 19:45

Instrument :
MSVOA_F
ClientSampled :
TP-6

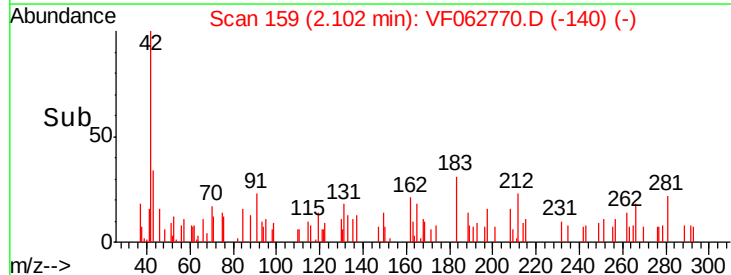
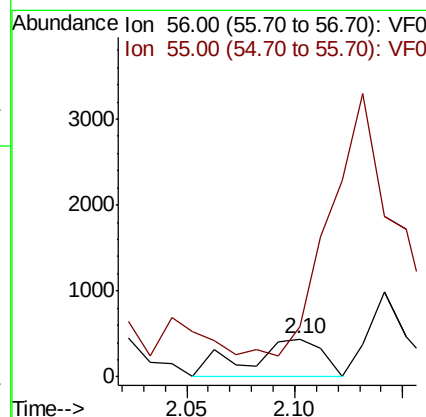
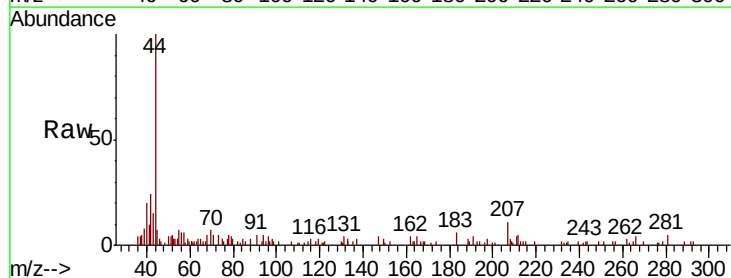
Tot Ion: 59 Resp: 663
Ion Ratio Lower Upper
59 100
57 60.6 9.3 13.9#

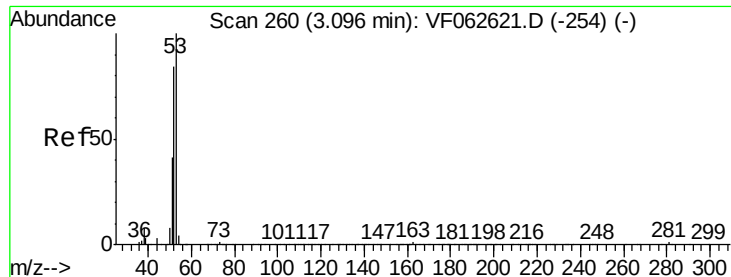


#13

Acrolein
Concen: 9.586 ug/l
RT: 2.10 min Scan# 159
Delta R.T. -0.01 min
Lab File: VF062770.D
Acq: 28 May 2019 19:45

Tgt Ion: 56 Resp: 1052
Ion Ratio Lower Upper
56 100
55 133.6 59.4 89.0#





#15

Acrylonitrile

Concen: 3.342 ug/l

RT: 3.12 min Scan# 262

Delta R.T. 0.02 min

Lab File: VF062770.D

Acq: 28 May 2019 19:45

Instrument :

MSVOA_F

ClientSampled :

TP-6

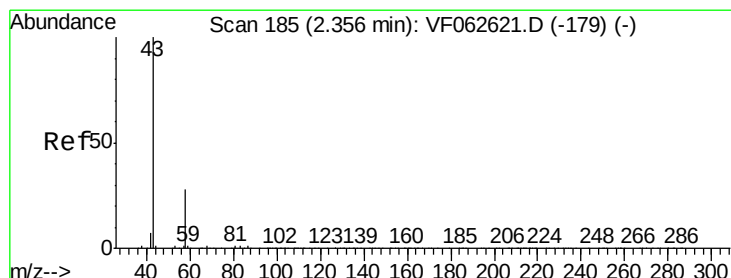
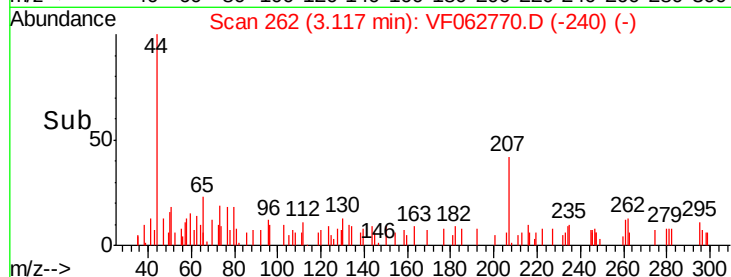
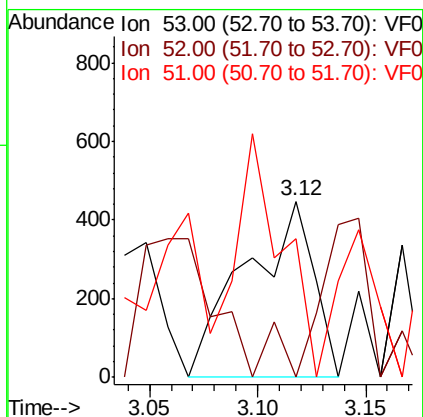
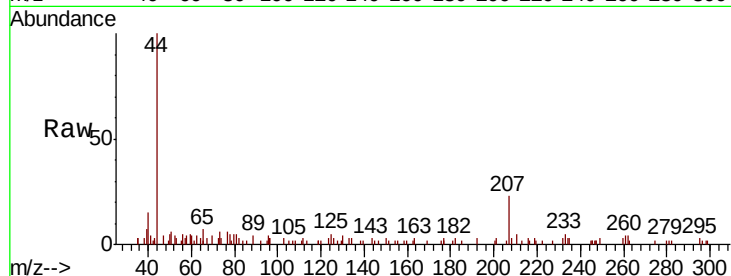
Tot Ion: 53 Resp: 991

Ion Ratio Lower Upper

53 100

52 56.2 67.3 100.9#

51 78.5 33.0 49.6#



#16

Acetone

Concen: 5.141 ug/l

RT: 2.39 min Scan# 188

Delta R.T. 0.03 min

Lab File: VF062770.D

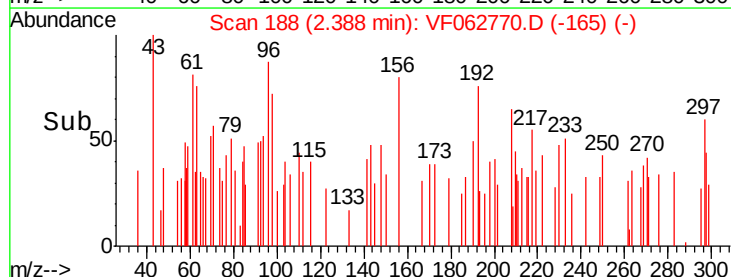
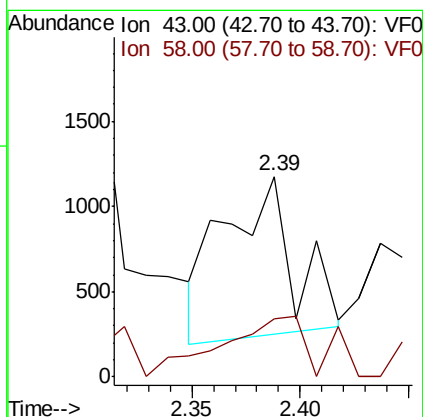
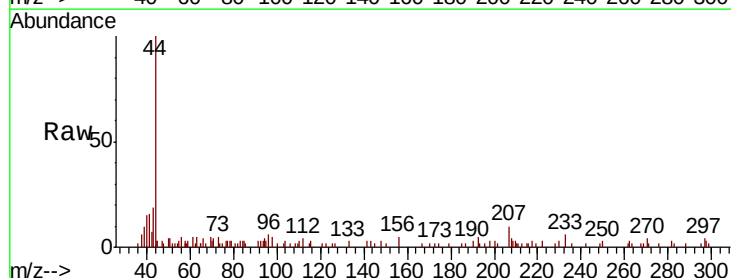
Acq: 28 May 2019 19:45

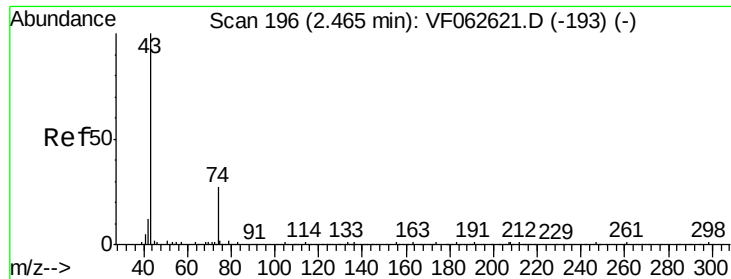
Tgt Ion: 43 Resp: 2124

Ion Ratio Lower Upper

43 100

58 29.3 22.6 33.8

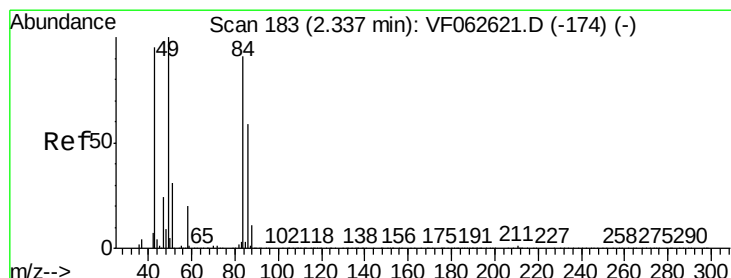
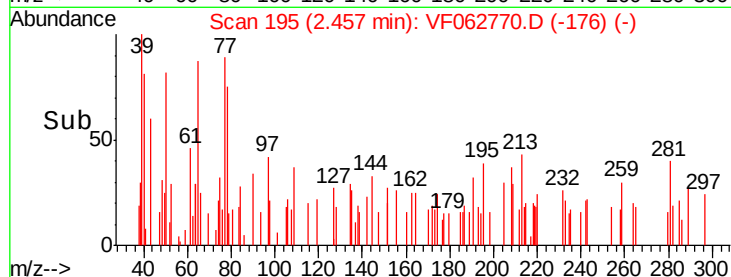
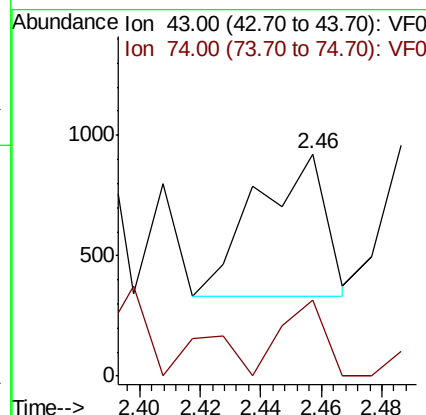
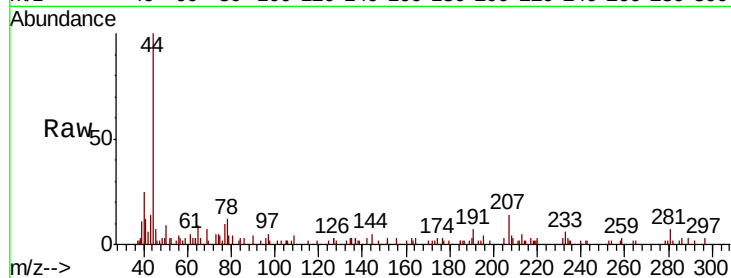




#18
Methyl Acetate
Concen: 1.456 ug/l
RT: 2.46 min Scan# 195
Delta R.T. -0.01 min
Lab File: VF062770.D
Acq: 28 May 2019 19:45

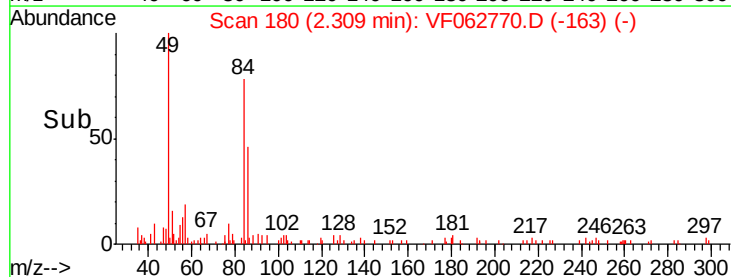
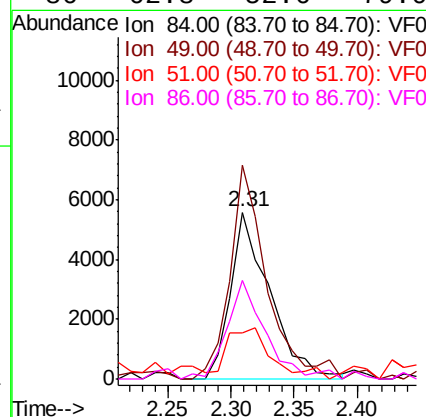
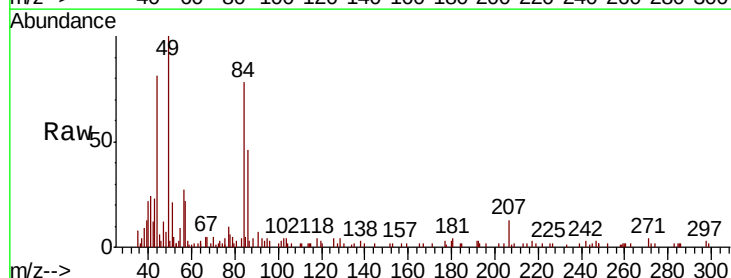
Instrument :
MSVOA_F
ClientSampled :
TP-6

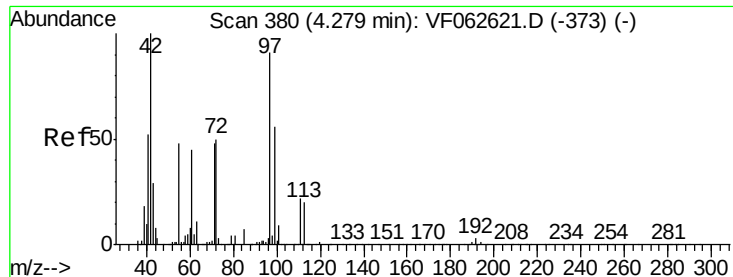
Tot Ion: 43 Resp: 945
Ion Ratio Lower Upper
43 100
74 34.2 18.9 28.3#



#20
Methylene Chloride
Concen: 5.806 ug/l
RT: 2.31 min Scan# 180
Delta R.T. -0.03 min
Lab File: VF062770.D
Acq: 28 May 2019 19:45

Tgt Ion: 84 Resp: 12022
Ion Ratio Lower Upper
84 100
49 128.1 89.8 134.8
51 27.4 28.4 42.6#
86 62.8 52.6 79.0





#29

Tetrahydrofuran

Concen: 3.466 ug/l

RT: 4.26 min Scan# 378

Delta R.T. -0.02 min

Lab File: VF062770.D

Acq: 28 May 2019 19:45

Instrument :

MSVOA_F

ClientSampled :

TP-6

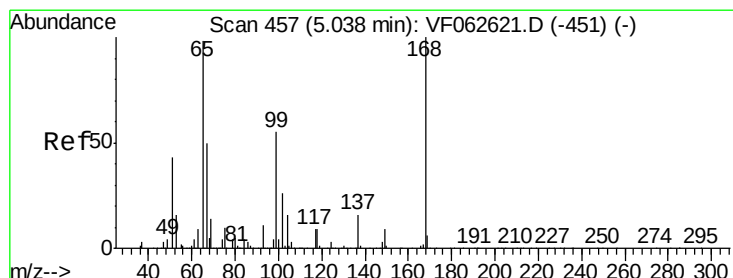
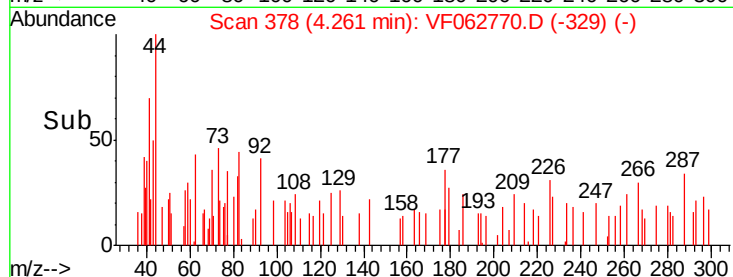
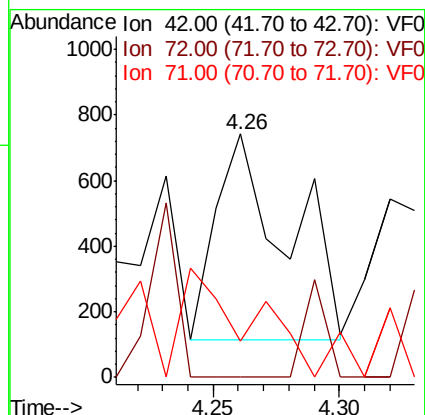
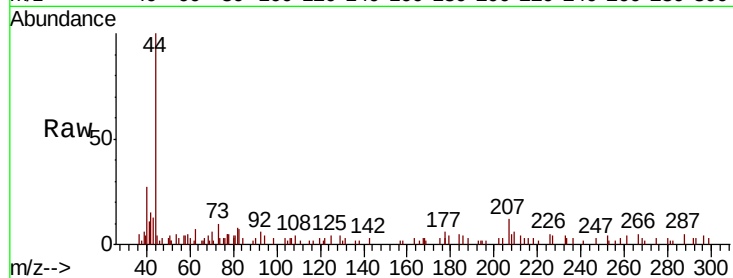
Tot Ion: 42 Resp: 1238

Ion Ratio Lower Upper

42 100

72 0.0 38.2 57.2#

71 50.1 35.8 53.6



#33

1,2-Dichloroethane-d4

Concen: 16.762 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.00 min

Lab File: VF062770.D

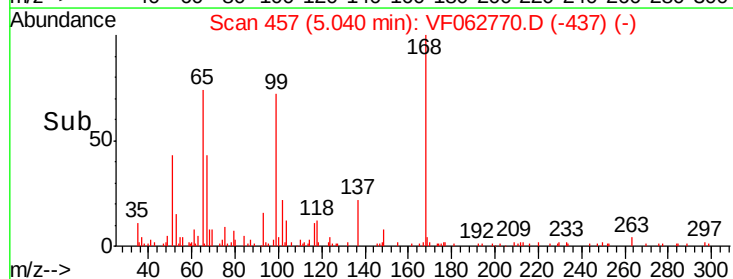
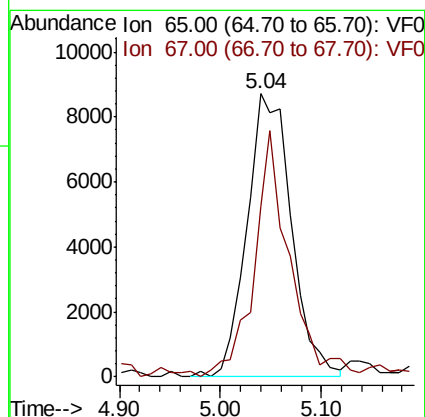
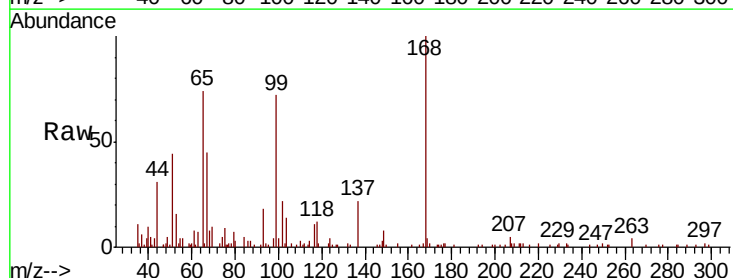
Acq: 28 May 2019 19:45

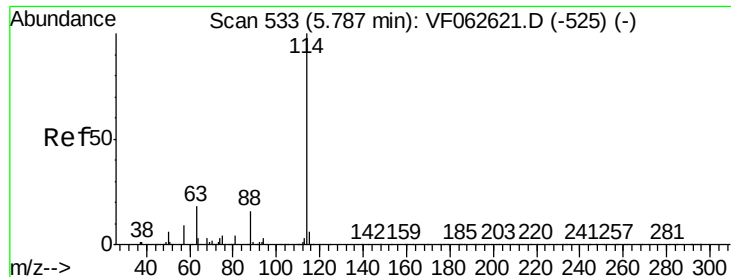
Tgt Ion: 65 Resp: 26691

Ion Ratio Lower Upper

65 100

67 60.3 0.0 117.6

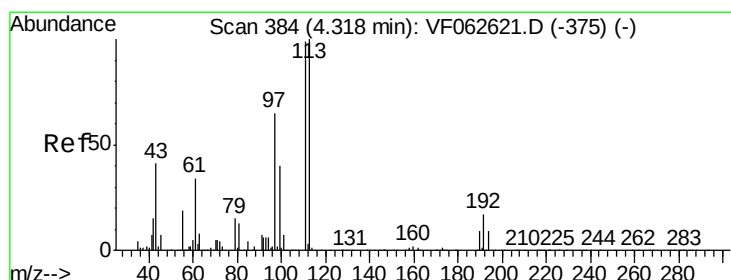
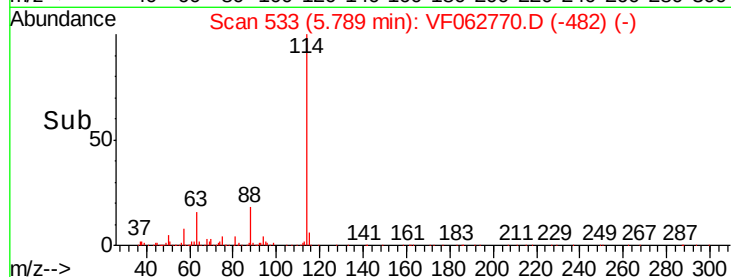
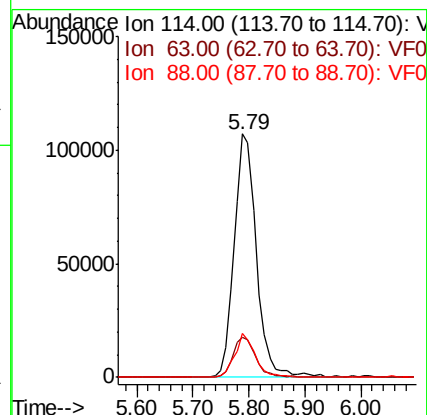
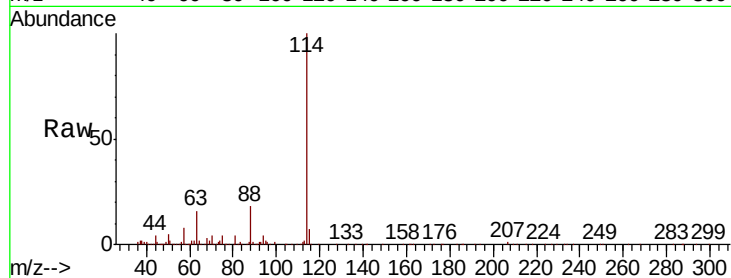




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.79 min Scan# 533
 Delta R.T. 0.00 min
 Lab File: VF062770.D
 Acq: 28 May 2019 19:45

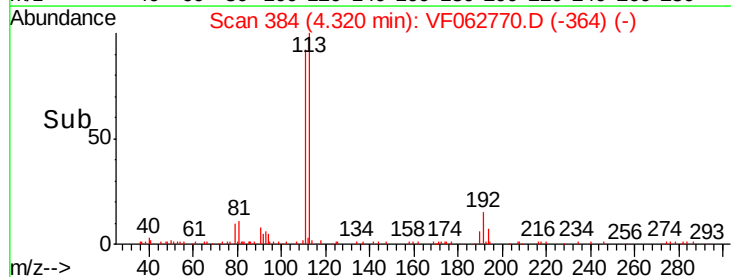
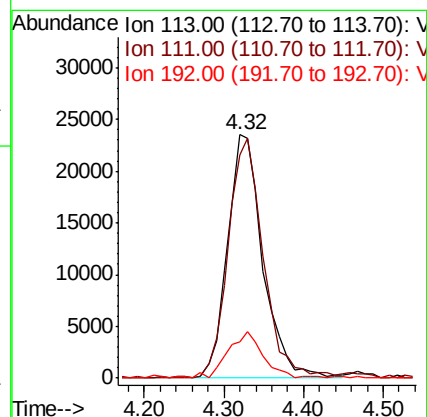
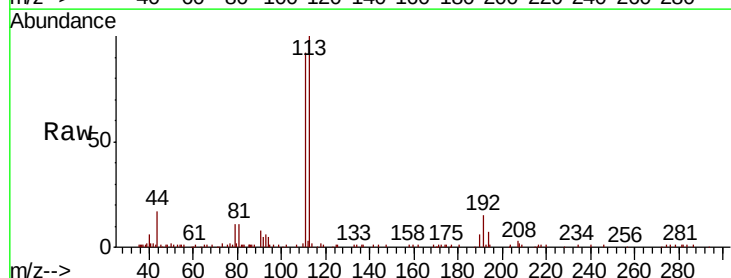
Instrument :
 MSVOA_F
 ClientSampleId :
 TP-6

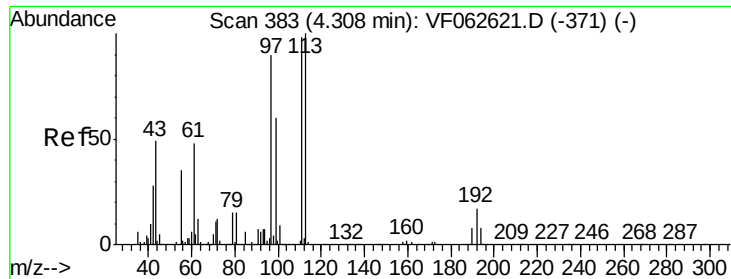
Tot Ion:	114	Resp:	294665
Ion	Ratio	Lower	Upper
114	100		
63	16.4	0.0	35.4
88	18.2	0.0	32.4



#35
 Dibromofluoromethane
 Concen: 32.459 ug/l
 RT: 4.32 min Scan# 384
 Delta R.T. 0.00 min
 Lab File: VF062770.D
 Acq: 28 May 2019 19:45

Tgt Ion:	113	Resp:	73188
Ion	Ratio	Lower	Upper
113	100		
111	89.9	79.4	119.2
192	14.4	13.4	20.2

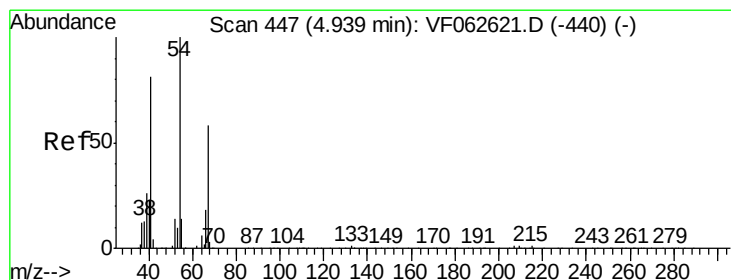
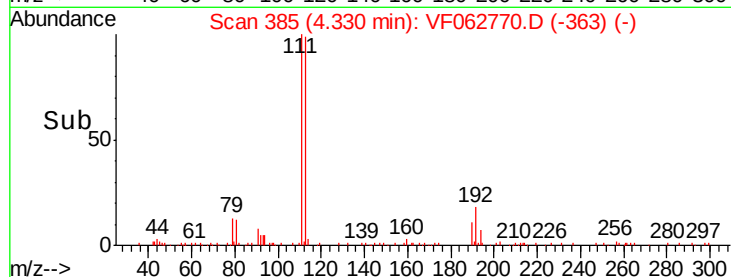
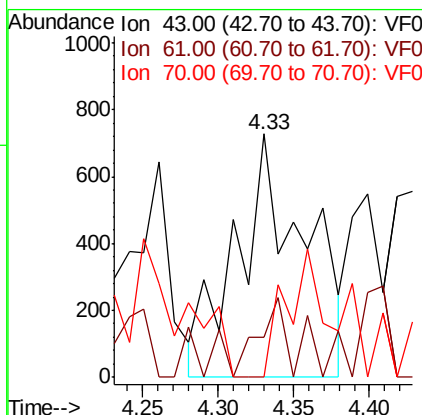
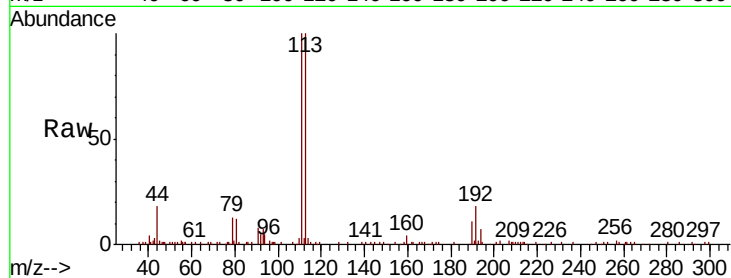




#37
Ethyl Acetate
Concen: 1.858 ug/l
RT: 4.33 min Scan# 385
Delta R.T. 0.02 min
Lab File: VF062770.D
Acq: 28 May 2019 19:45

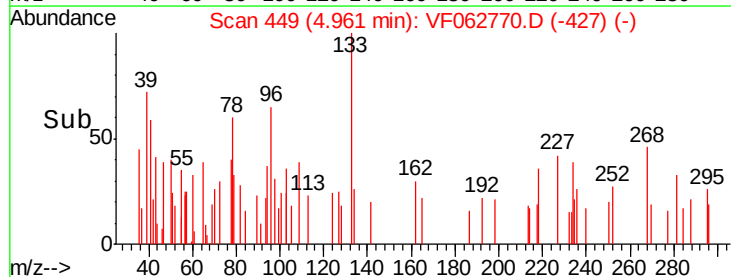
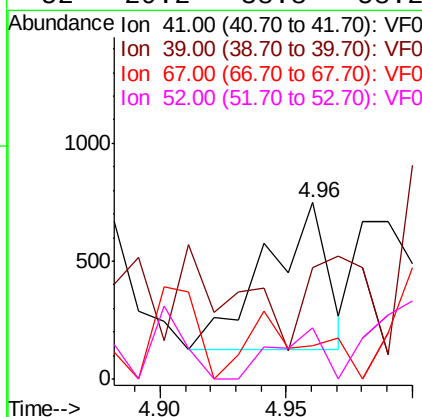
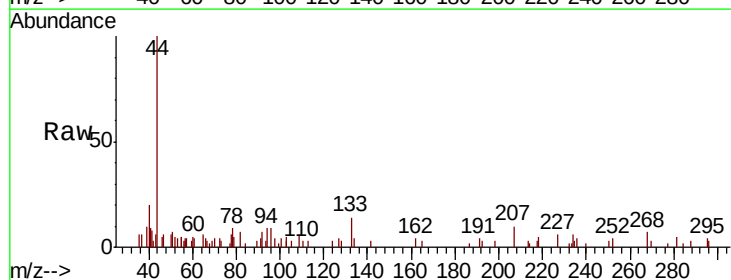
Instrument :
MSVOA_F
ClientSampled :
TP-6

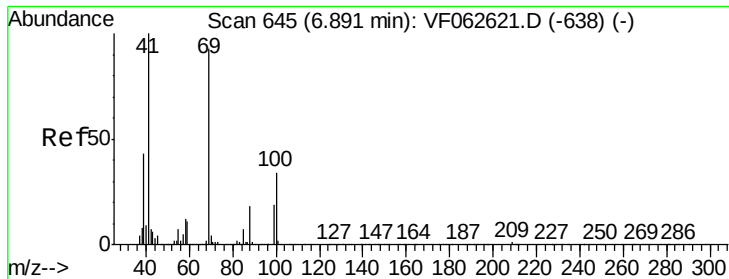
Tot Ion: 43 Resp: 2290
Ion Ratio Lower Upper
43 100
61 16.5 76.9 115.3#
70 0.0 8.8 13.2#



#41
Methacrylonitrile
Concen: 1.651 ug/l
RT: 4.96 min Scan# 449
Delta R.T. 0.02 min
Lab File: VF062770.D
Acq: 28 May 2019 19:45

Tgt Ion: 41 Resp: 1067
Ion Ratio Lower Upper
41 100
39 63.2 42.2 63.2
67 18.6 56.4 84.6#
52 29.2 38.8 58.2#

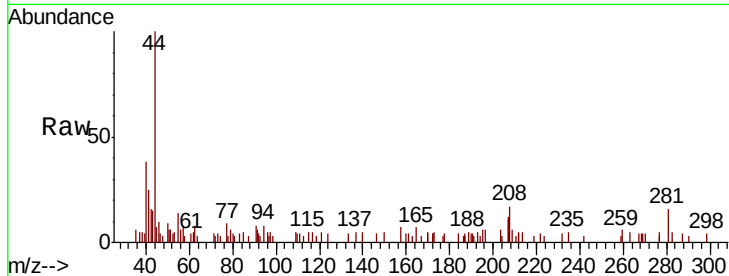




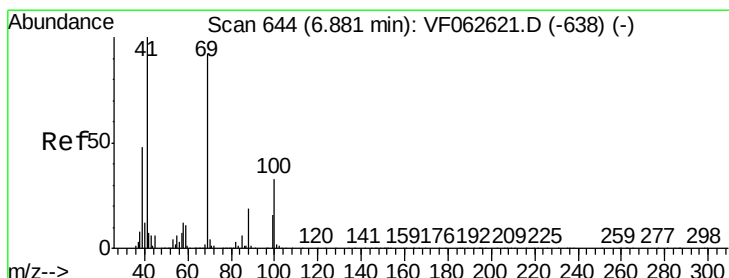
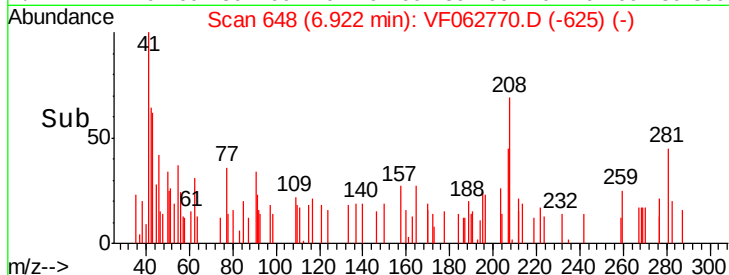
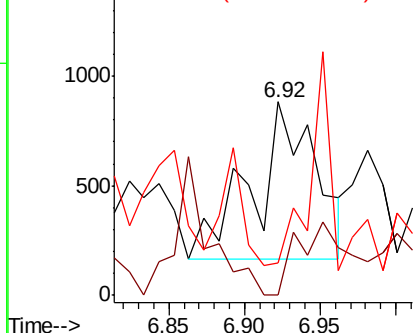
#48
Methyl methacrylate
Concen: 2.506 ug/l
RT: 6.92 min Scan# 648
Delta R.T. 0.03 min
Lab File: VF062770.D
Acq: 28 May 2019 19:45

Instrument :
MSVOA_F
ClientSampled :
TP-6

Tot Ion: 41 Resp: 2092
Ion Ratio Lower Upper
41 100
69 0.0 74.2 111.2#
39 16.8 34.2 51.4#

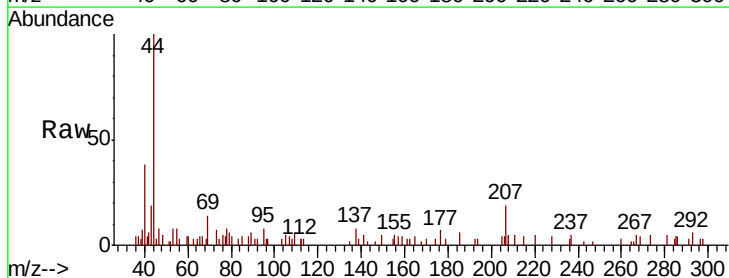


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0

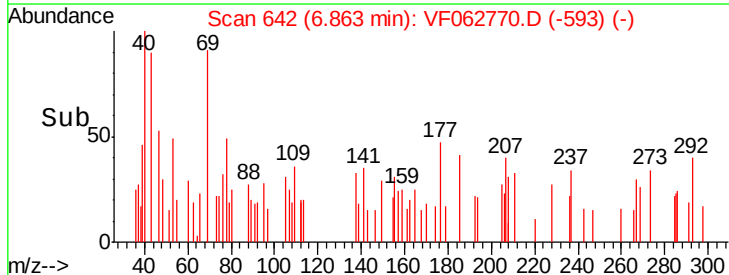
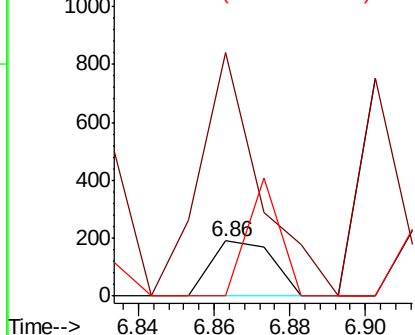


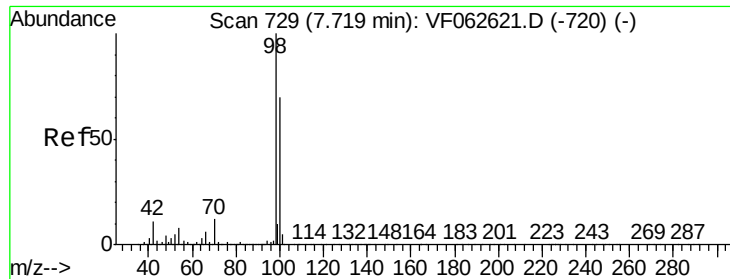
#49
1,4-Dioxane
Concen: 19.827 ug/l
RT: 6.86 min Scan# 642
Delta R.T. -0.02 min
Lab File: VF062770.D
Acq: 28 May 2019 19:45

Tgt Ion: 88 Resp: 212
Ion Ratio Lower Upper
88 100
43 442.6 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: 38.663 ug/l

RT: 7.73 min Scan# 730

Delta R.T. 0.01 min

Lab File: VF062770.D

Acq: 28 May 2019 19:45

Instrument :

MSVOA_F

ClientSampleId :

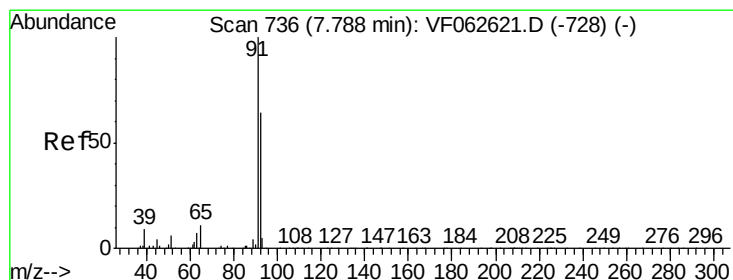
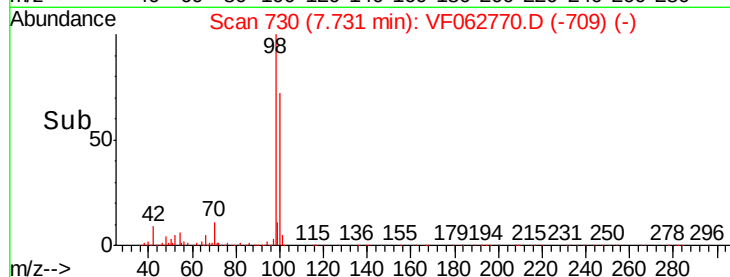
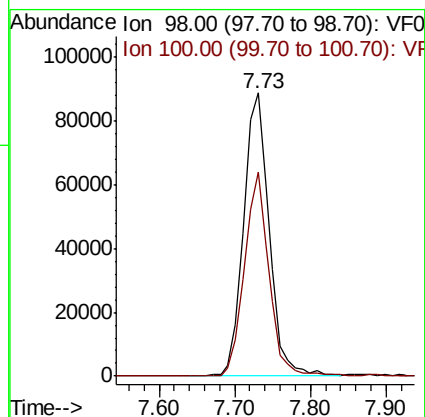
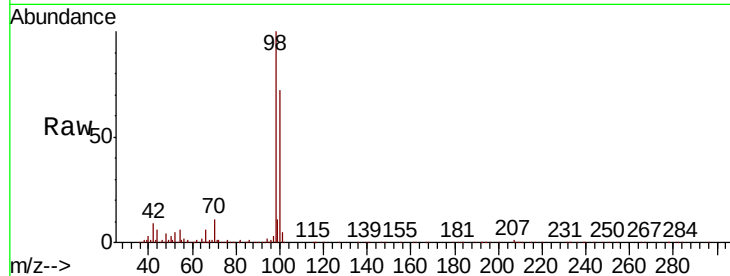
TP-6

Tot Ion: 98 Resp: 208145

Ion Ratio Lower Upper

98 100

100 71.9 56.2 84.2



#52

Toluene

Concen: 3.829 ug/l

RT: 7.79 min Scan# 736

Delta R.T. 0.00 min

Lab File: VF062770.D

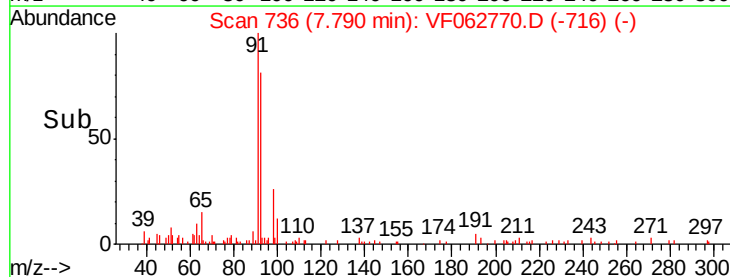
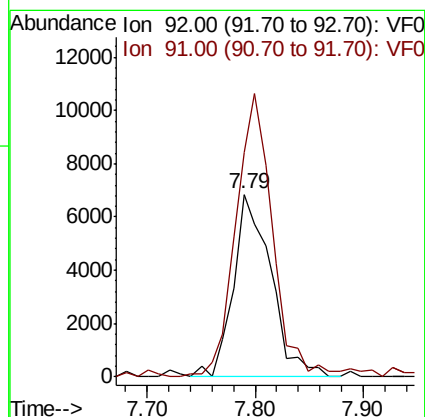
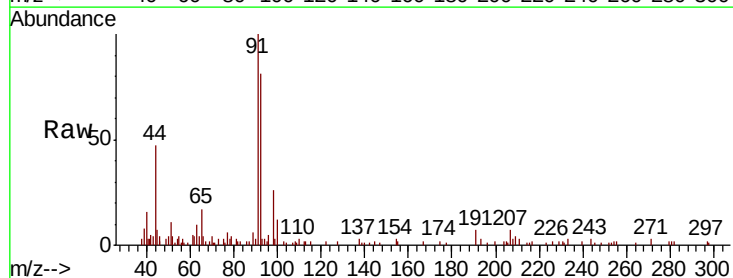
Acq: 28 May 2019 19:45

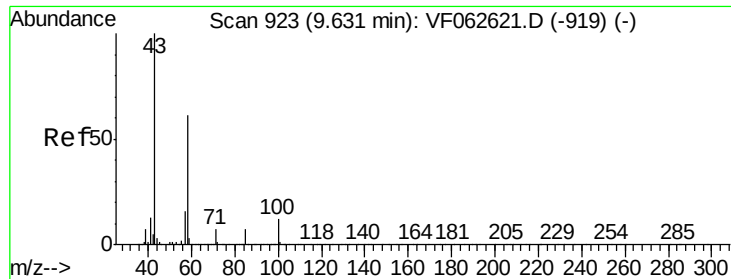
Tgt Ion: 92 Resp: 16520

Ion Ratio Lower Upper

92 100

91 123.3 125.4 188.0#

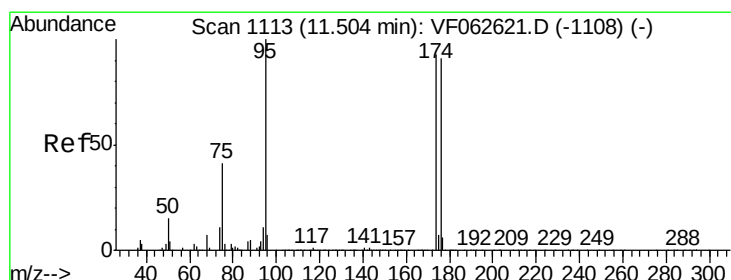
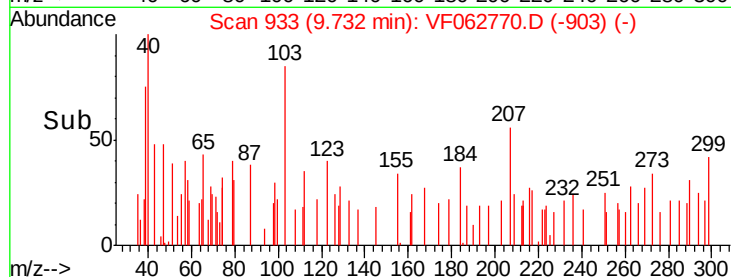
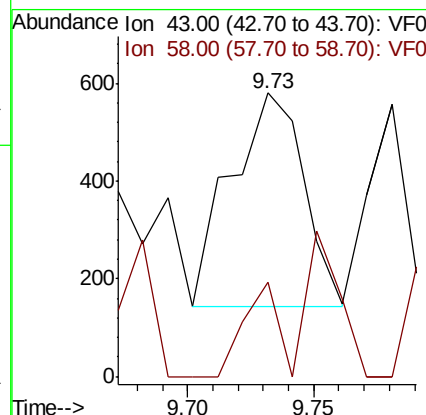
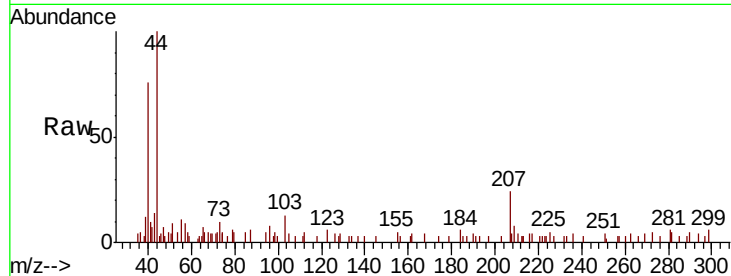




#59
2-Hexanone
Concen: Below Cal
RT: 9.73 min Scan# 933
Delta R.T. 0.10 min
Lab File: VF062770.D
Acq: 28 May 2019 19:45

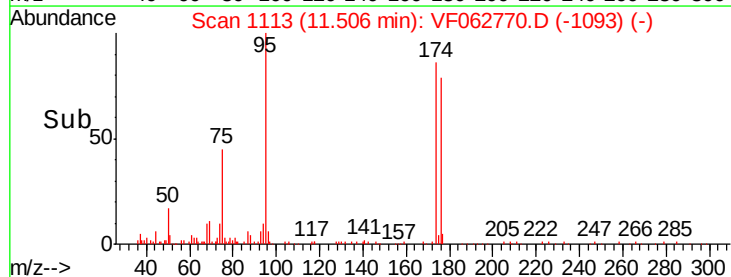
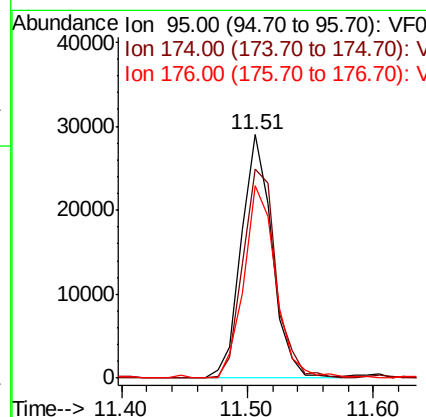
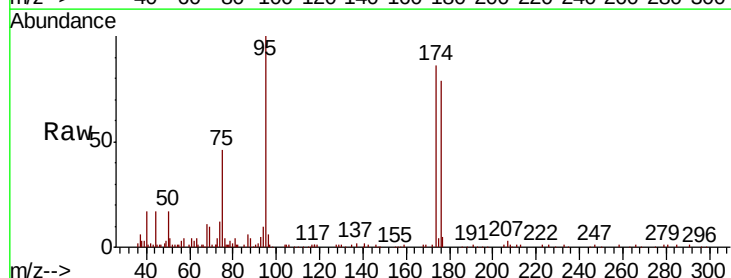
Instrument :
MSVOA_F
ClientSampled :
TP-6

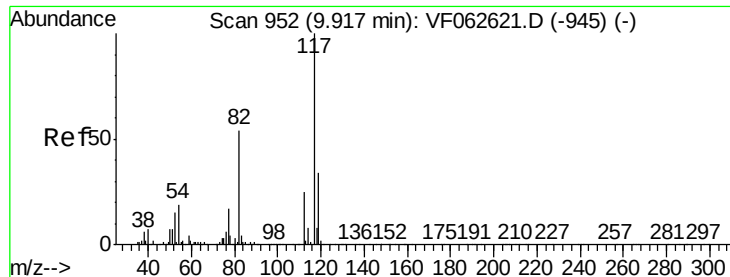
Tot Ion: 43 Resp: 878
Ion Ratio Lower Upper
43 100
58 33.1 28.1 84.4



#62
4-Bromofluorobenzene
Concen: 23.897 ug/l
RT: 11.51 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VF062770.D
Acq: 28 May 2019 19:45

Tgt Ion: 95 Resp: 48794
Ion Ratio Lower Upper
95 100
174 86.0 0.0 185.6
176 78.9 0.0 182.4

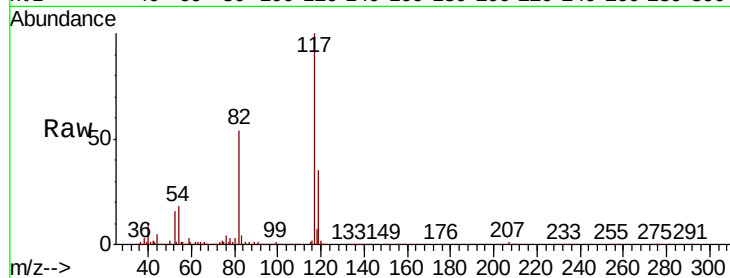




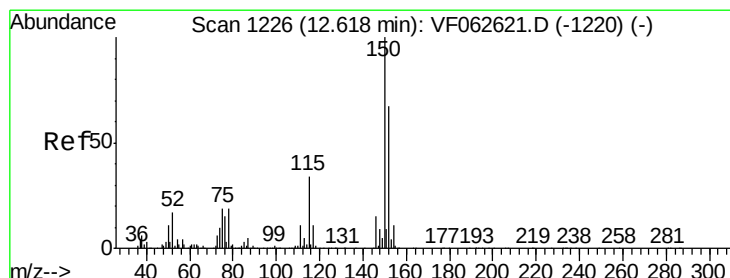
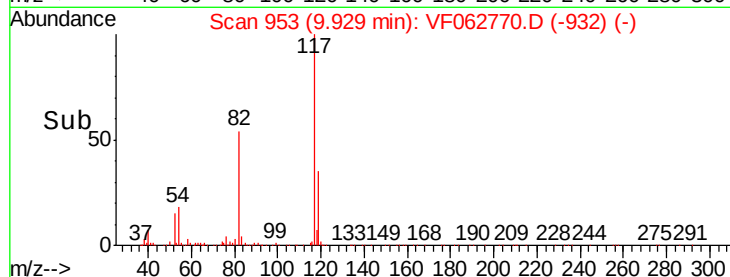
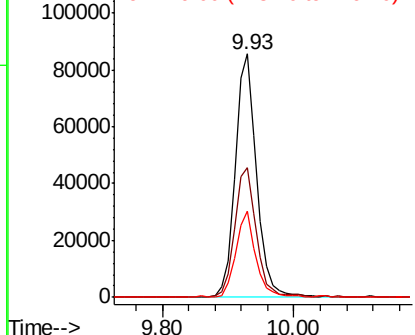
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.93 min Scan# 953
Delta R.T. 0.01 min
Lab File: VF062770.D
Acq: 28 May 2019 19:45

Instrument :
MSVOA_F
ClientSampled :
TP-6

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.5	43.3	64.9
119	35.5	27.4	41.0

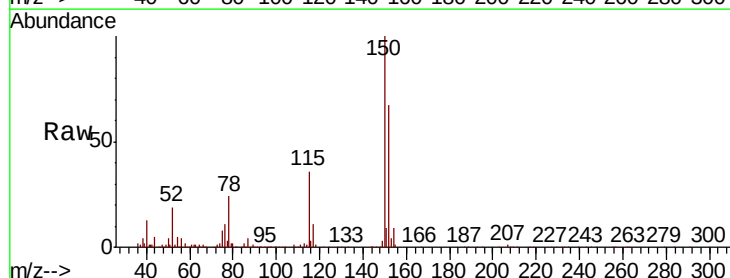


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

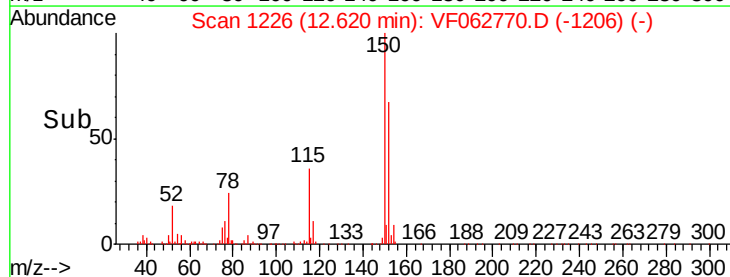
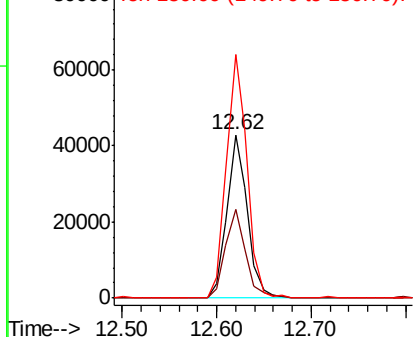


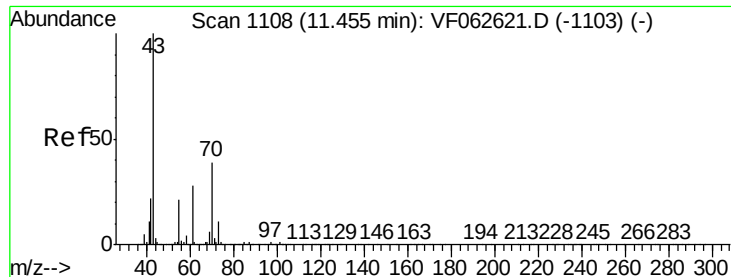
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. 0.00 min
Lab File: VF062770.D
Acq: 28 May 2019 19:45

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.0	25.2	75.6
150	149.2	0.0	306.2



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: 11.47 min Scan# 1109

Delta R.T. 0.01 min

Lab File: VF062770.D

Acq: 28 May 2019 19:45

Instrument :

MSVOA_F

ClientSampled :

TP-6

Tot Ion: 43 Resp: 1344

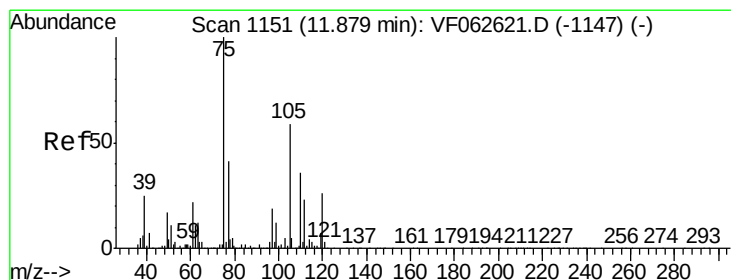
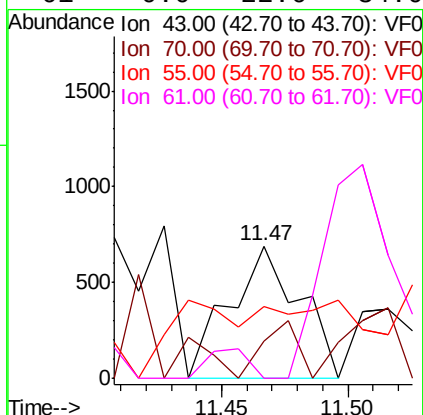
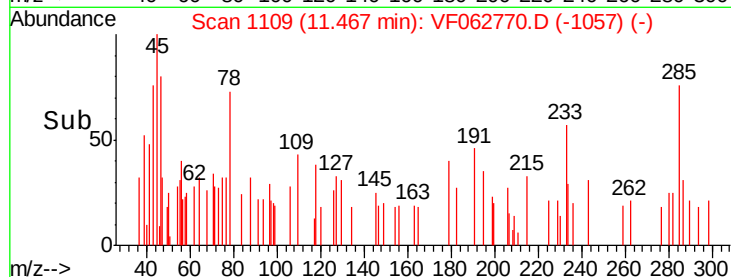
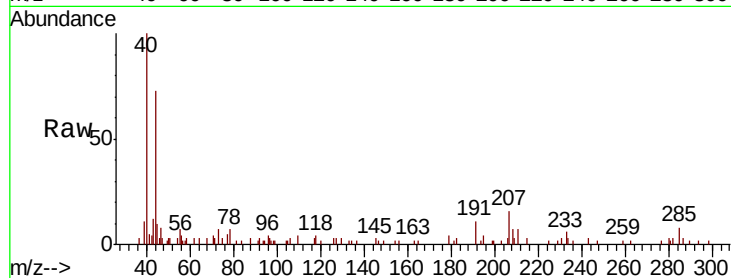
Ion Ratio Lower Upper

43 100

70 28.4 30.9 46.3#

55 53.8 17.0 25.4#

61 0.0 22.6 34.0#



#76

1,2,3-Trichloropropane

Concen: 1.108 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. 0.02 min

Lab File: VF062770.D

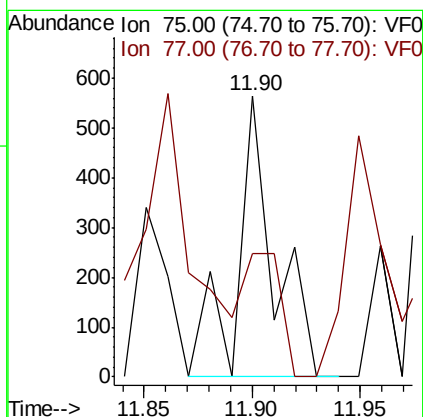
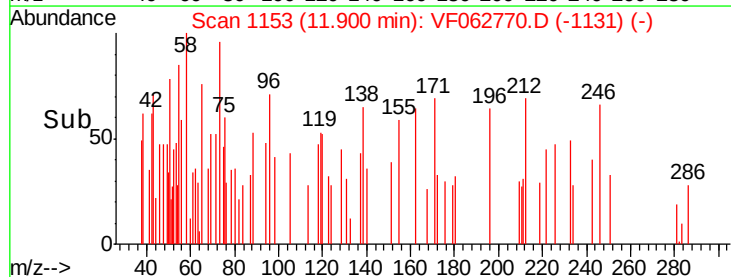
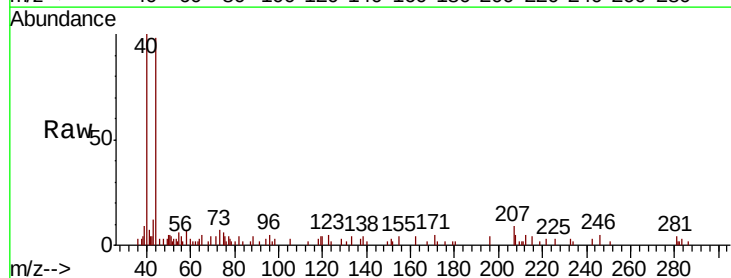
Acq: 28 May 2019 19:45

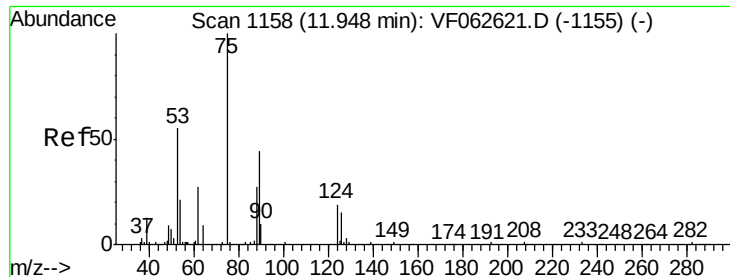
Tgt Ion: 75 Resp: 682

Ion Ratio Lower Upper

75 100

77 43.7 20.6 61.8





#81

trans-1,4-Dichloro-2-butene

Concen: 2.011 ug/l

RT: 11.98 min Scan# 1161

Delta R.T. 0.03 min

Lab File: VF062770.D

Acq: 28 May 2019 19:45

Instrument :

MSVOA_F

ClientSampleId :

TP-6

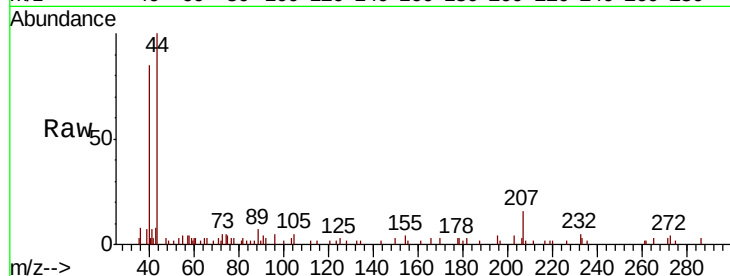
Tot Ion: 75 Resp: 550

Ion Ratio Lower Upper

75 100

53 37.2 46.9 70.3#

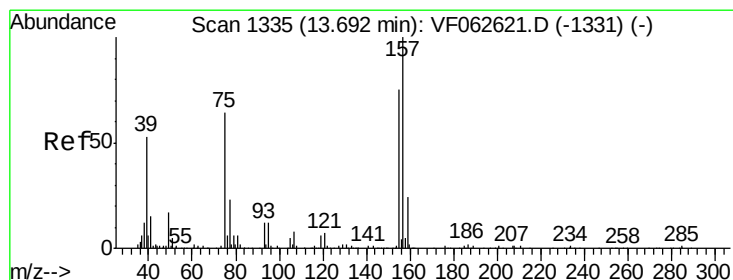
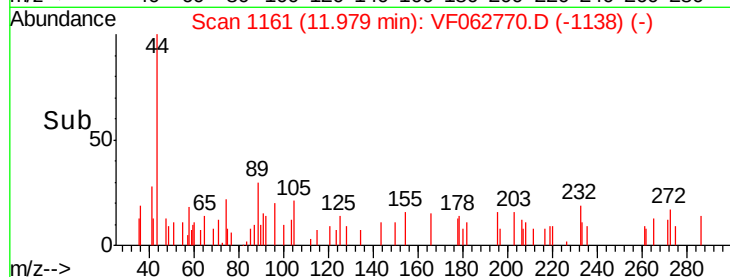
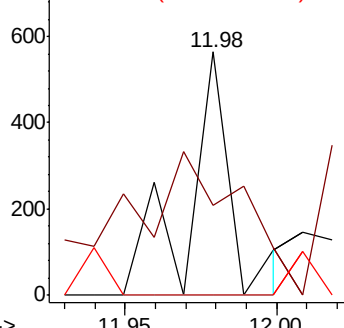
89 0.0 36.4 54.6#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.336 ug/l

RT: 13.71 min Scan# 1337

Delta R.T. 0.02 min

Lab File: VF062770.D

Acq: 28 May 2019 19:45

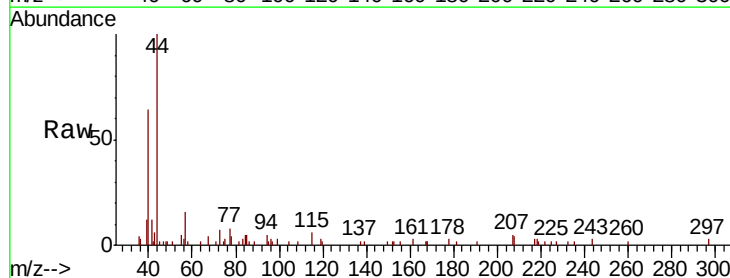
Tgt Ion: 75 Resp: 261

Ion Ratio Lower Upper

75 100

155 63.3 58.1 174.3

157 0.0 77.8 233.4#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

