



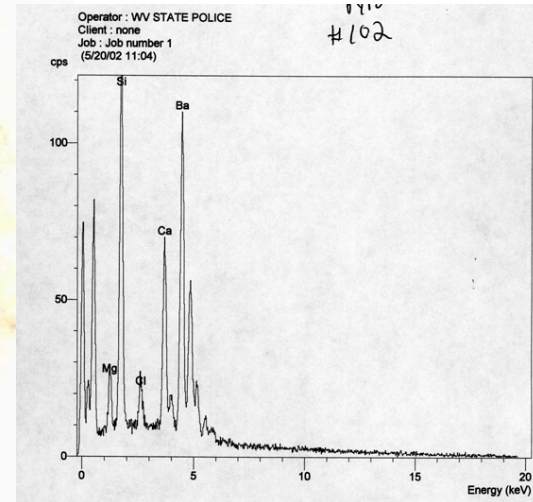
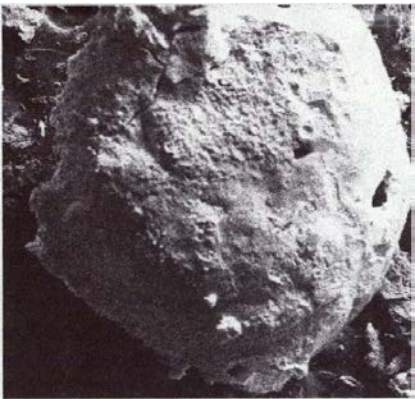
 Automated GSR run of burned residue found: none

💣 **Morphology** BSE/SEM: nothing significant

🔥 **Contents of burned residue:** Mg,Al S,Cl,K Ba,K,Cl Cl,K Ba,K,S Ba,K,S,Cl Al,K,Cl,S



#102 4" Conic Fountain fountain



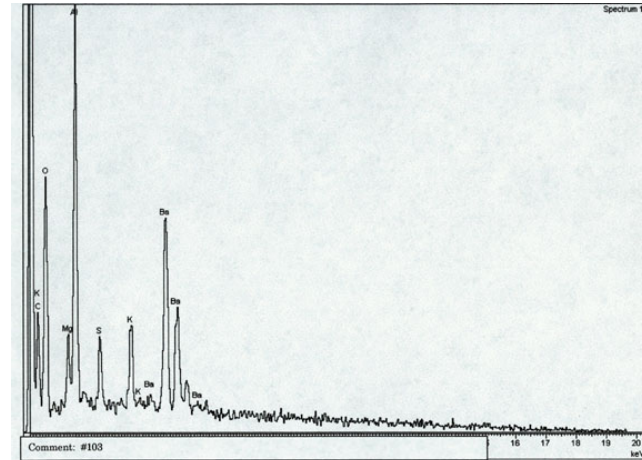
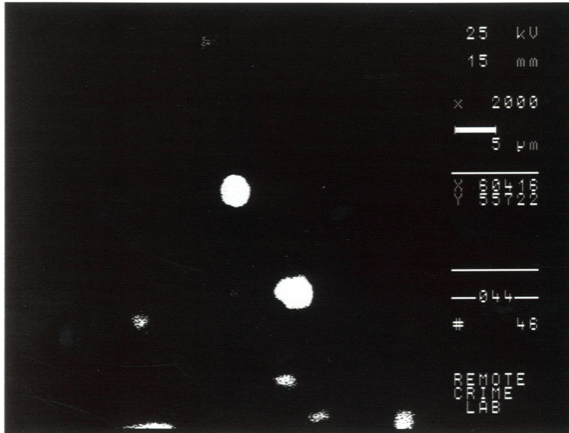
102

- 💣 **Pyrotechnic effect:** 10 foot high green fountain
- 💣 **Contents of unburned device:** orange=Mg,Al,Cl,Ba gray=Mg,Al,Ba,Cl,K
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** some spheres
- 💣 **Contents of burned residue:** Ba,Ca,Si Cu,Ba,Si,Al Ba,Si,Cl,Ca Ba,Al Mg,Al,Ba
Ba,Cl Ba,Si,Al Ba



#103 Double Parachute Night

roman candle

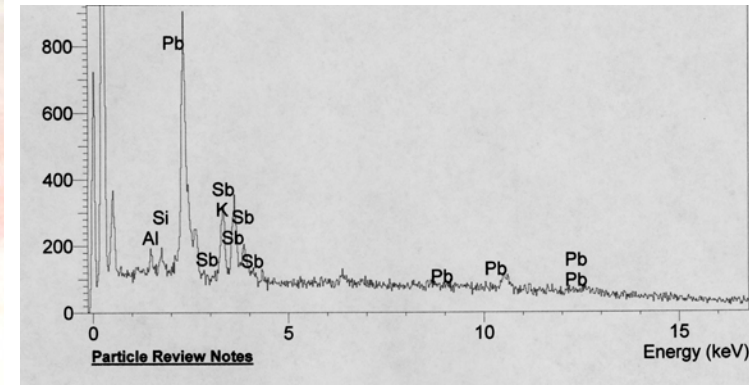
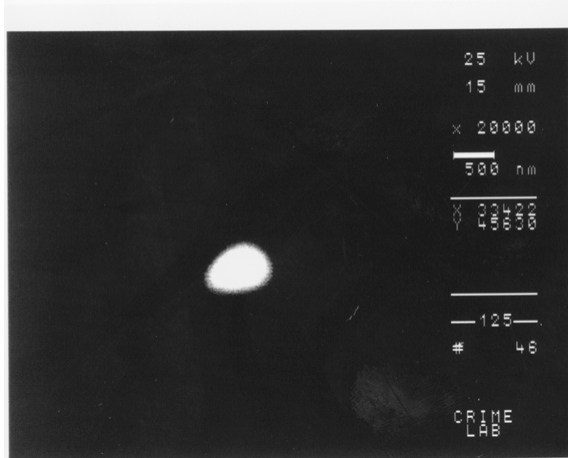


- 💣 **Pyrotechnic effect:** shoots flaming balls and 2 parachutes
- 💣 **Contents of unburned device:** black2=K,Si,Al,S black1=K,S,Si,Al white=Si,Mg,Ca,Al
orange2=Si,Al,Fe,Mg,K,Ti gray=Mg,Al,Sr,Cl,K,Ba
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** can find small spheroid particles
- 💣 **Contents of burned residue:** K,S K,S,Cl Ba,K,S,Mg,Al Al,K,S Al,Mg,Ba,K,S



#104 Jump Shot

shots

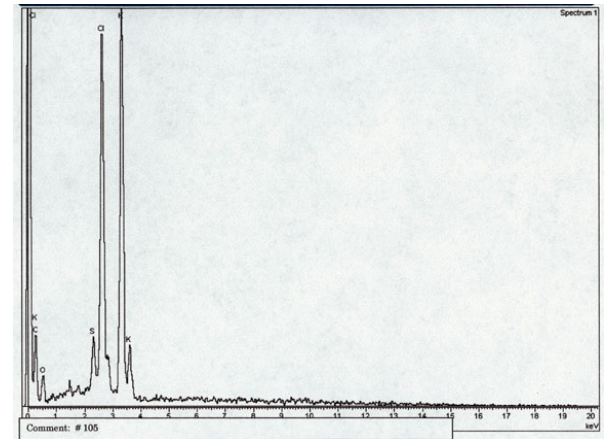
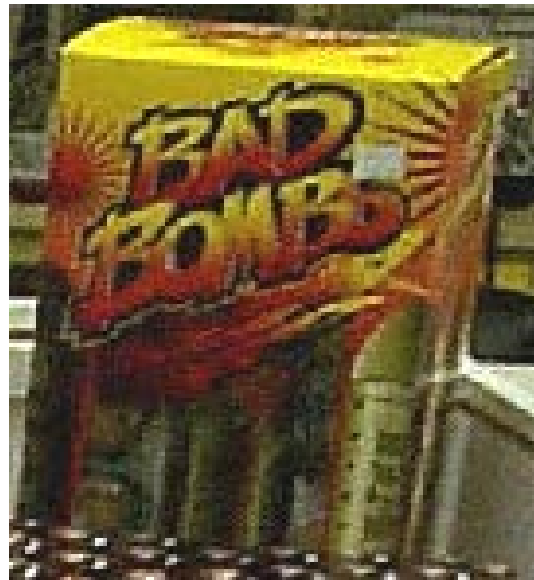
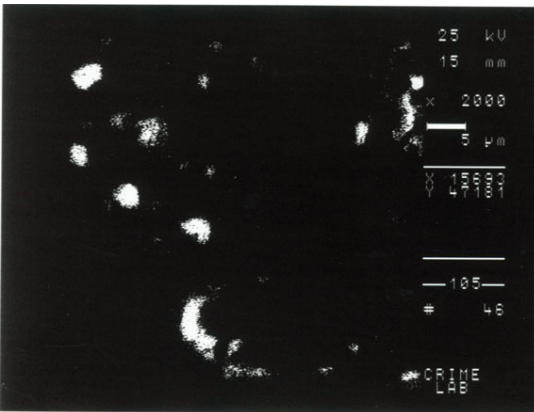


- 💣 **Pyrotechnic effect:** throws stream of sparks 15 feet into air
- 💣 **Contents of unburned device:** red=Pb,Mg,Al,Cu,K orange=Si,Al,K,Ti,Fe,Mg
gray=K,Cl,Pb,Si,Al,Mg,Fe,Cu black2=K,Si,Al,S,Fe
- 💣 **Automated GSR run of burned residue found:** couple Pb.Sb
- 💣 **Morphology BSE/SEM:** can find small spheroid particles
- 💣 **Contents of burned residue:** Pb,Sb Pb,Cu,K,Ca Al,Si,Fe,K,Cl Pb,Sb,K,Al,Si



#105 Bad Bombs

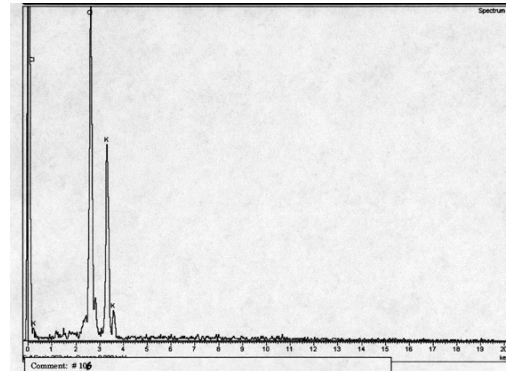
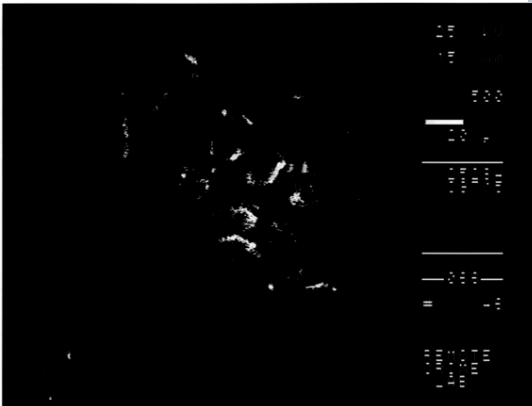
mortar



- 💣 **Pyrotechnic effect:** shots high in the sky and explodes various types
- 💣 **Contents of unburned device:** orange=Mg,Al,Pb,Cu off-white=S,Cl,Cu,K off-white1=Si,K,S
gray=K,S black1=K,S,Si black5=K,Cl,S,Mg,Al,Cu black4=S,K,Mg,Al
black3=K,Cl black2=K,Cl,S,Si
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** nothing significant
- 💣 **Contents of burned residue:** K,S K,S,Al,Si K,Cl Ba,K,S Cl,K,S



#106 Ole Time Shoot Out shots

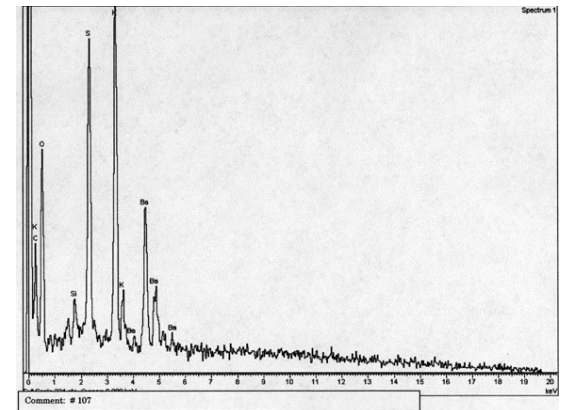
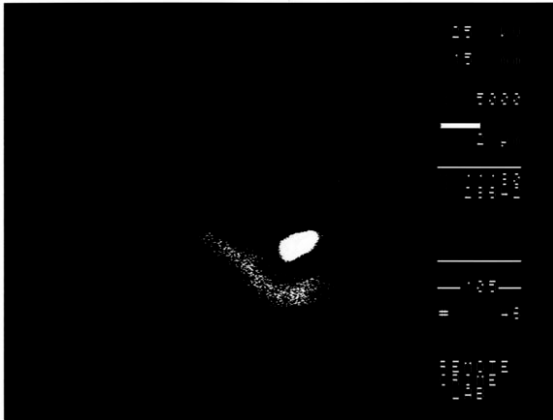


- 💣 **Pyrotechnic effect:** 16 shots up and explode
- 💣 **Contents of unburned device:** black=K,S,Si gray1=Mg,Al,Si,Cl,K,S,Ca,Fe
gray2=Al,Cl,K,Ca white=Mg,Si,Cl,S,Al,Ca,Fe
white2=Si,Mg,Cl,S,Al,K,Ca,Fe white3=Mg,Cl,Al,Si,S,K,Ca,Fe
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** nothing significant
- 💣 **Contents of burned residue:** Mg,Cl,K Ni Mg,Si,S,Cl,Ba,Fe Cl,K Cl,K S K,S



#107 Happy

16 small shots

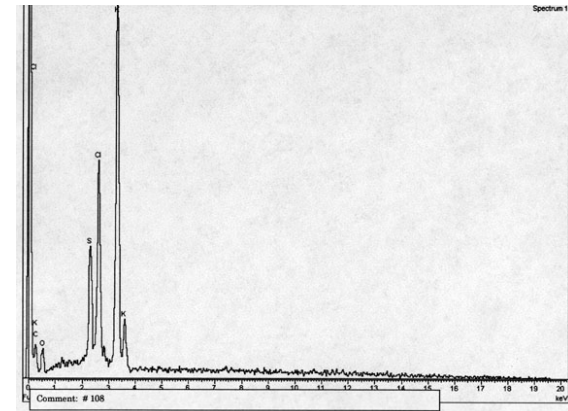
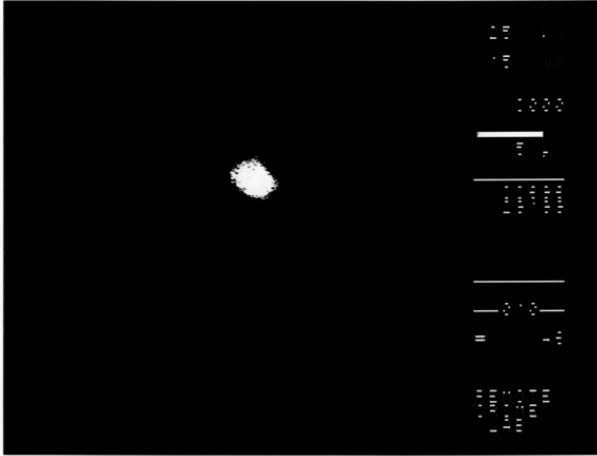


- 💣 **Pyrotechnic effect:** shots up then explodes in sparks red and green
- 💣 **Contents of unburned device:** gray=Mg,Ba,Al,K,Ba,Cl,S,Si,K black=K,S,Si
orange=Si,Al,K,Fe,Ti,Mg,S
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** nothing significant
- 💣 **Contents of burned residue:** K,S K,Cl,Si Ba,K,Si,S Ti,K,S K,Cl Sr,S,K Fe,K,Si
Ba,K,S,Si



#108 Silver Chrysanthemum

mortar



💣 **Pyrotechnic effect:** one shot high into air and silvery crackle explosion

💣 **Contents of unburned device:**

💣 **Automated GSR run of burned residue found:** none

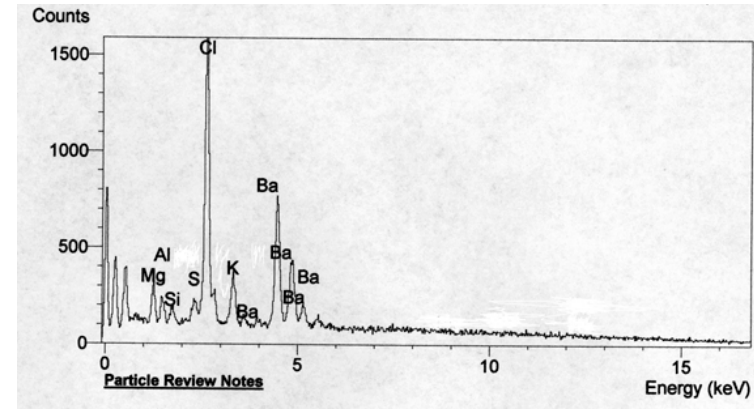
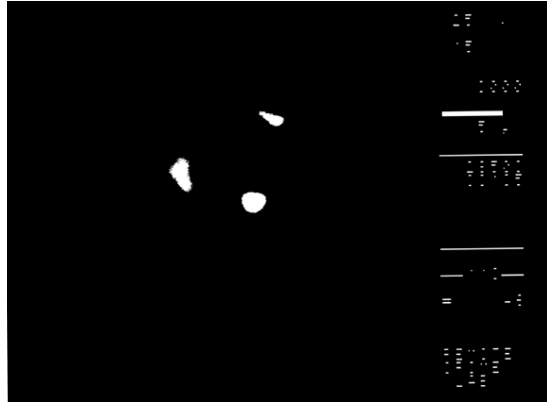
💣 **Morphology BSE/SEM:** nothing significant

💣 **Contents of burned residue:** K,Al,S K,S



#109 Kalidescope

8 shots



💣 **Pyrotechnic effect:**

💣 **Contents of unburned device:** black1=K,S,Si,Mg,Al,Fe black2=K,S,Si,Al,Cl
black3=K,S,Si,Al,Cl gray1=Mg,Al,K,S,Cl,Si,Ba,K gray2=K,Mg,Al,Cl,S,Sr,Ba
orange2=Si,Al,Fe,K,Ti,S,Fe red1=Mg,Al,Cl,Ba,K,S,Si red2=Cl,Mg,Sr,K,Sr,Al,Ba
orange1=Si,Al,Fe,K,Ti,Mg

💣 **Automated GSR run of burned residue found:** none

💣 **Morphology BSE/SEM:** can find 2um round

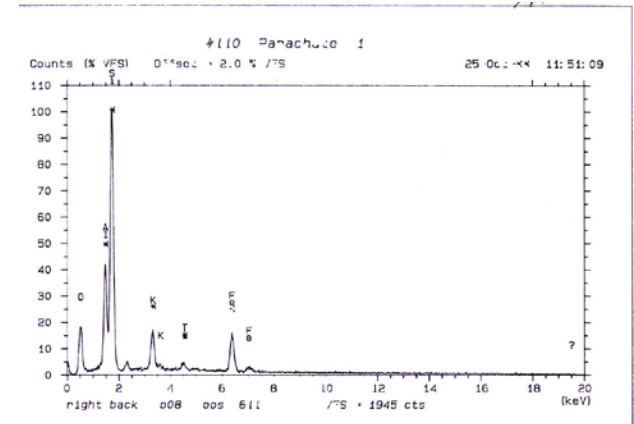
💣 **Contents of burned residue:** Ba,Al,K,S,Cl Ba,S,Mg,Al Ba,S Ba,Al,Mg,S,Cl,K
Ba,Al,Mg,Fe Ba,K,Cl,S Pb,K k,Si,S Ba,S,Si,Al,Mg,K Pb,K,Ca,Si,Al,Fe Ba,Cl,K,Al,S



#110 Parachute

parachute

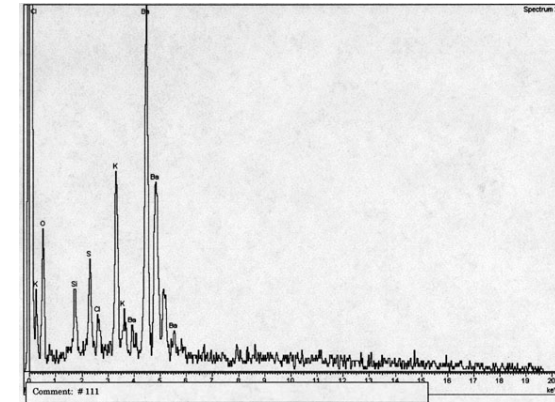
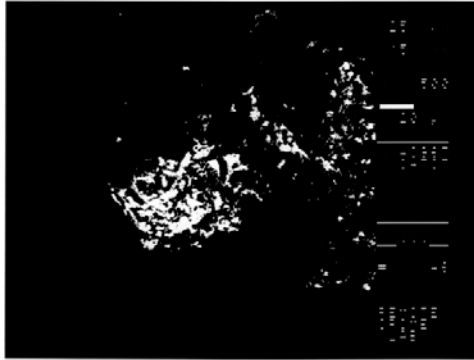
#110 Parachute 1



- 💣 **Pyrotechnic effect:** shoots large parachute in sky comes down with 7 burning kite tails
- 💣 **Contents of unburned device:** black = K,Mg,Al,Si,S,Cl,Ba,Fe black2 = K,S,Si,Al,Mg
black3 = K,S,Si,Al,Mg clear rock = Si,Al,Fe orange = Si,Al,Fe,Ti,K
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** can find 5um bright not round particles
- 💣 **Contents of burned residue:** Si,Al,Fe,K,Ti K,Cl P,Si,Al,K,Fe Si K,S Ti,Cr,Fe
Si,Al,Ti,K,Fe Ba



#111 Wailing Wheel wheel

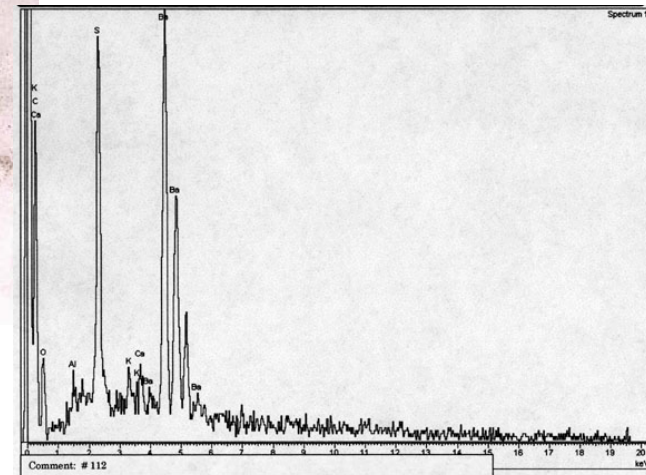
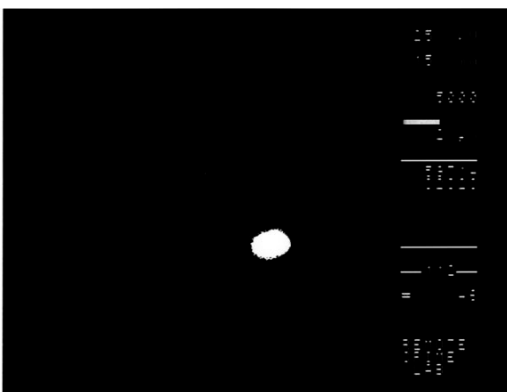


- 💣 **Pyrotechnic effect:** extremely loud whistling with six separate different colored flaming sparks
- 💣 **Contents of unburned device:** black=K,Si,S,Al,Mg gray=K,Cl,Si,Al,Fe off-white=K,Cl,Si
orange1=Si,Al,Cl,K,Fe,Ti orange=Si,Al,Fe,K,Ti
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** nothing significant
- 💣 **Contents of burned residue:** Ba,Al,Mg,Cl,K,S Ba,K,S,Cl Sr,K,Cl K,Cl,S Ba,S
Ce,Al,Si,P,K Cl,K,Ca



#112 Jumping Wheel

wheel

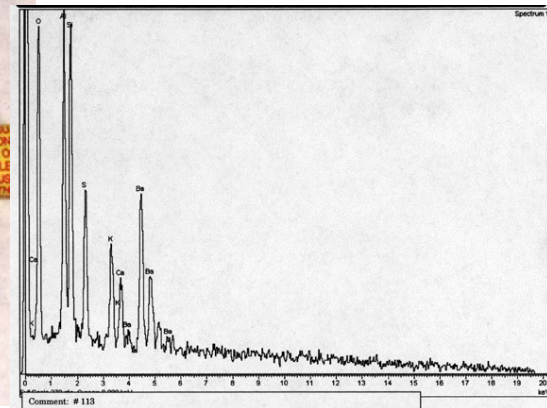
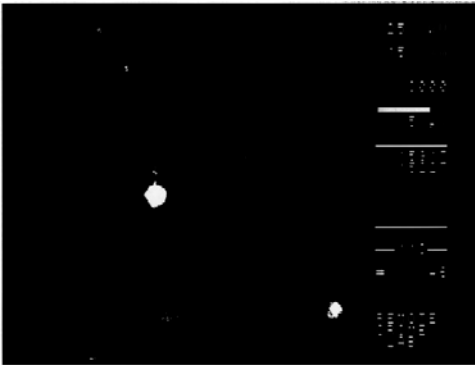


- 💣 **Pyrotechnic effect:** spins jumps and sparks
- 💣 **Contents of unburned device:** black=K,S,Si orange=Si,Al,K,Fe,Ti,Mg
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** can find small spheroid particles
- 💣 **Contents of burned residue:** K,S K,S,Ba Al,Si,Fe,K,Ca Ba,K S,Ca,Ba,Al,Si,K



#113 Rainbow Wheel

wheel

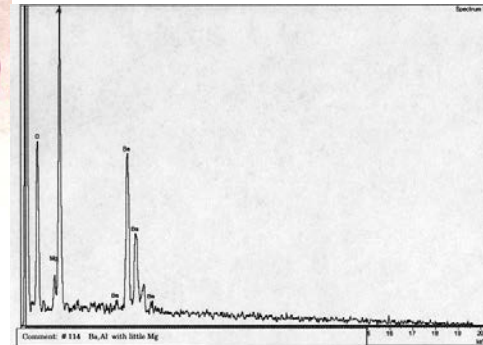
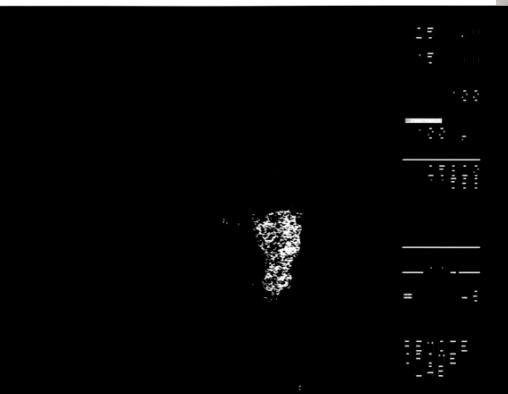


- 💣 **Pyrotechnic effect:** short green flaming sparks spinning one way then red spinning back
- 💣 **Contents of unburned device:** black=K,Si,Ca,Mg,Al,Fe gray=Mg,Al,Cl,Ca,K,Ca,Si
orange=Si,Al,Mg,K,Ca,Ti,Fe
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** can find small spheroid particles
- 💣 **Contents of burned residue:** Ba,K,Si,Ca,S Ba,K,AL,Si,S,Ca K,Cl,,,K,Cl,Fe,Si,Al Ba,K,Cl,Si



#114 Spinning Wheel

wheel

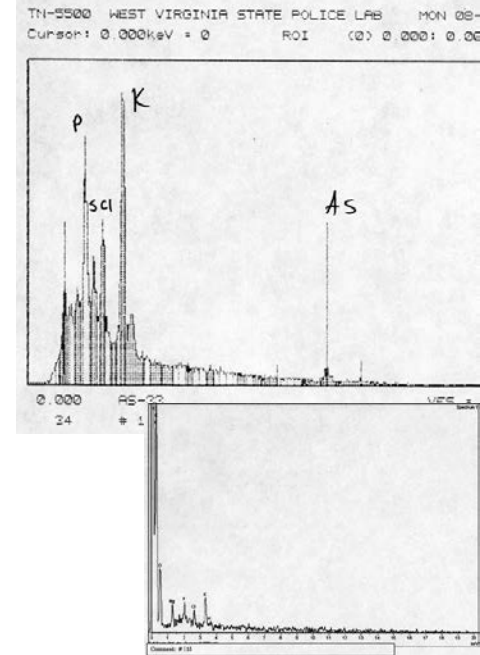
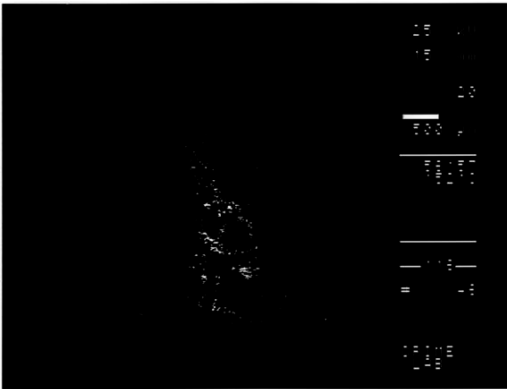


- 💣 **Pyrotechnic effect:** three bright flaming colored sparks one way then back
- 💣 **Contents of unburned device:** orange=Si,Al,Fe,K,Ti,Mg gray=Mg,Al,Sr,Cl,K,Ce
black=K,S,SiAl
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** nothing significant
- 💣 **Contents of burned residue:** Sr,Mg,Al,Ca Ba,Mg,K,Cl K,S Ba,Al,Mg K,S
Ba,K,Cl,S,Mg,Al Ba,K,S,Ba,Al Ba,Ca,S,Mg



#115 Champaign Party Popper

popper

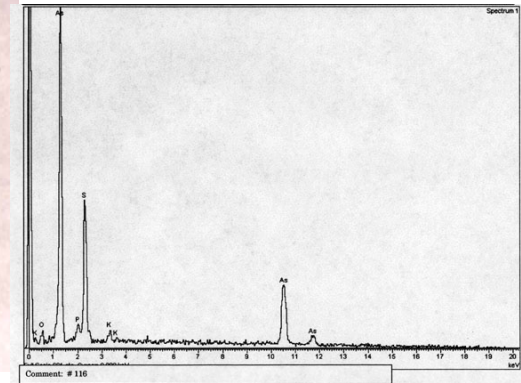
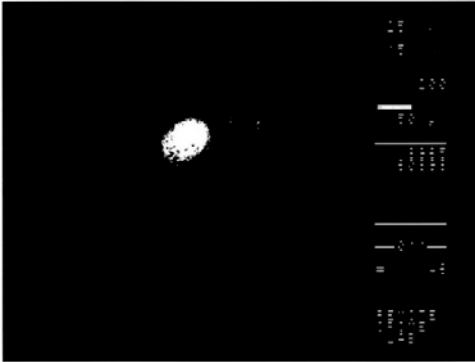


- 💣 **Pyrotechnic effect:** small pop explosion send streams of colored paper in the air
- 💣 **Contents of unburned device:** orange3=Cl,K,P,As,S,Cl,K,As orange2=Cl,K,PAs,S,Cl,K
orange1=Cl,K,P,As,S,Cl,Si,Fe
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** mass
- 💣 **Contents of burned residue:** Sr,P,S,Cl,Ca,K,As K,P,Cl,Mg



#116 Magnum Pistol Popper

popper



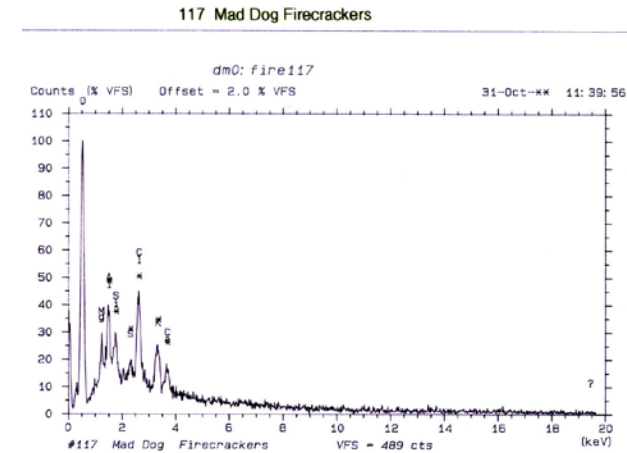
💣 **Pyrotechnic effect:** small pop explosion send streams of colored paper in the air

💣 **Contents of unburned device:** orange=Cl,K,P,As,S,Ca,Cl,K

💣 **Automated GSR run of burned residue found:** none


💣 **Morphology BSE/SEM:** nothing significant

💣 **Contents of burned residue:** As,Cl,K,P Cl,K Ba,Cl,K As,S,Cl,K,Ca Si,K S,As Ba,Cl Ba,Al,Mg




💣 **Contents of unburned device:** gray = Al,Si,Cl,S,K,Mg,Fe
orange = Si,Al,Mg,Ca,Fe,K,Cl,S,Ti

off-white = Mg,Ca,Al,Cl,Si,K,S,Fe

 **Automated GSR run of burned residue found:** none

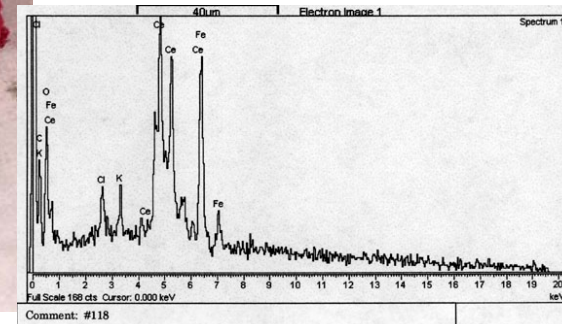
 **Morphology BSE/SEM:** nothing significant

 **Contents of burned residue:** Ca,K,Cl Mg,Al Cl,K Mg,Cl,K,Ca Mg,Cl,K,Ca
Al,Si,S,Cl,K,Ca Cl,K Cl,Al,Mg,Si,K,Ca,S Mg,Cl,K,Si
Ca,Mg,Cl,K,Si



#118 Lady Cracker

firecracker

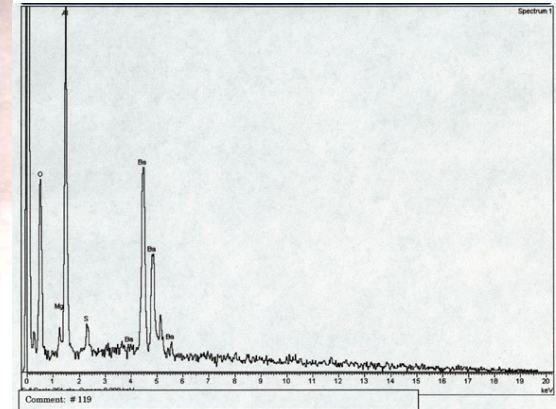
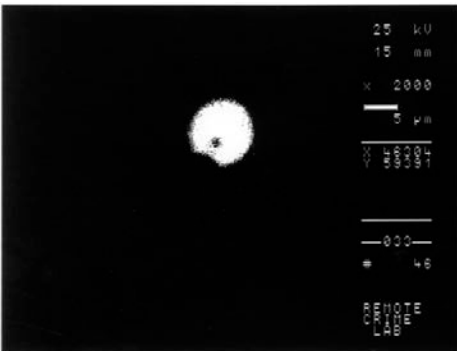


- 💣 **Pyrotechnic effect:** small pop explosion
- 💣 **Contents of unburned device:** gray=S,Cl,K,Si,Mg,Al,Fe black=Si,Mg,Al,S,Cl,K,Ca,P
orange=Si,Al,K,Fe,Mg,S,Cl,Ca,Ti off-white=Mg,Cl,Ca,Si,K,S
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** nothing significant
- 💣 **Contents of burned residue:** K,Cl,S Fe,S Mg,S,Cl,K,Ca K,S Cl,K Ba,S,Cl,K
Mg,Si,Cl,K Mg,Si,K,Cl,Ba,Zn Ce,Fe,Cl,K



#119 Cat Copter

flying spinner



- 💣 **Pyrotechnic effect:** flies upward spinning with red then green flames
- 💣 **Contents of unburned device:** orange=Si,Al,Mg,K,Ti,Fe gray=Al,Mg,Sr,Cl,K,Mn,Fe
black=K,Si,Mg,Al,Fe
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** nothing significant
- 💣 **Contents of burned residue:** Ca,K,Cl,Si,Al Cl,K Sr,Al,Ba S,K Mg,Al,Cl,K,Ca Cl,S,K
Ca,Ti, Ba,Al,Sr,K Ba,Mg,Al,K K,S,Cl,Ba,Al Al,Si K,Cl,Al,Mg Ba,Al,S,Mg

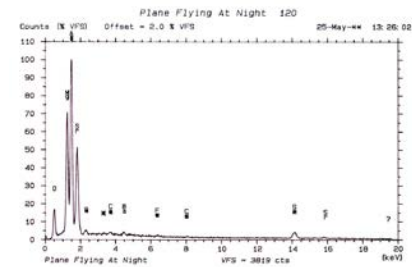
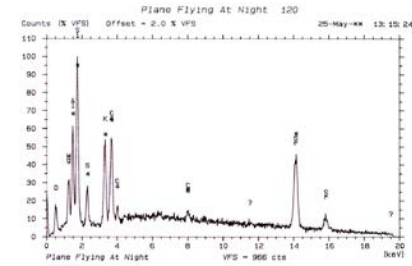
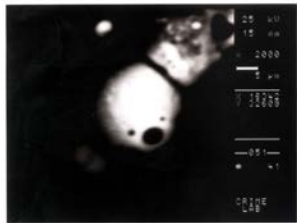


#120 Plane Flying at night

flying spinner



PLANE FLYING 120



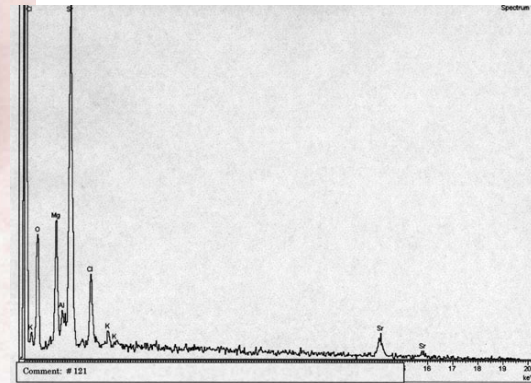
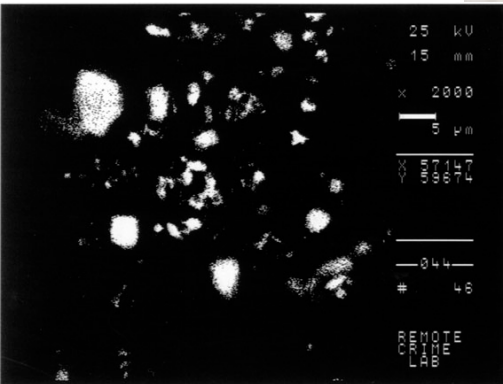
- 💣 **Pyrotechnic effect:** spins up in any direction emitting sparks
- 💣 **Contents of unburned device:** orange = Si,Al,Fe,K,Mg,S,Ti gray = Al,Mg,Cl,K,Ba,Fe
black = K,Al,S,Si,Mg
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** can find 20um round particles
- 💣 **Contents of burned residue:**

S,Fe,Si,K,Ca,Cu	Si,Sr,Al,Mg,K,Ca,Cu	Al,Mg,Si,Sr,S
K,S,Na,Al	Ba,Al,Mg,Sr,Ca	Mg,Al,Si,S,K,Ca
Mg,Si,Ca	K,Mg,Al,Si,S,Ca	
Al,Mg,K,Ca,Ba,Fe,Sr	Mg,K,Ca	Mg,Al,Sr,Ca
Al,Sr,Ba	Mg,Al	



#121 Space Flyer

flying spinner



💣 **Pyrotechnic effect:** very high flying spinner

💣 **Contents of unburned device:** orange2=Si,Al,Fe,K,Ti orange1=Ca,Mg,Al,Cl,Sr,Ca,Fe,K
gray2=Cl,Mg,Al,Sr,K,Ba gray1=Cl,Mg,Sr,Al,K black=K,Si,Al,S,Cl

💣 **Automated GSR run of burned residue found:** none

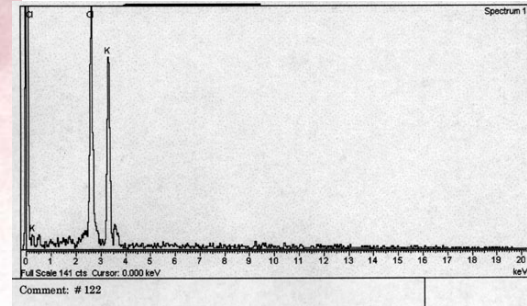
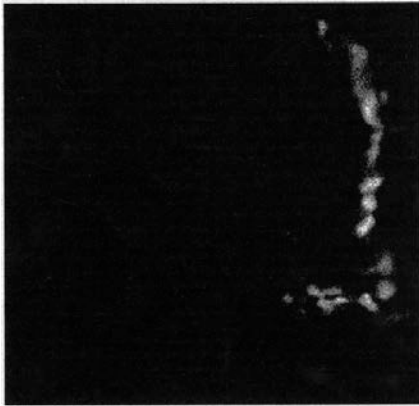
💣 **Morphology BSE/SEM:** can find small spheroid particles

💣 **Contents of burned residue:** Sr,Mg,Al Sr,Mg Sr,Fe S,Fe,K Fe,K K,Cl,Mg,Sr
K,Fe,Sr,Al



#122 Space Banger

flying spinner

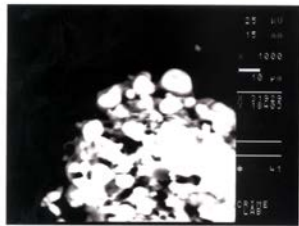


- 💣 **Pyrotechnic effect:** flying spinner and pops in sky
- 💣 **Contents of unburned device:** white=Ca,Si,Mg,Al,S,Cl,K,Fe orange=Si,Mg,Al,Cl,K,Fe,Ti
off-white=Mg,Si,Al,Cl,S,K,Ca,Fe gray2=Al,Cl,K,Si,Mg,Fe
gray1=K,Cl,Ca,Si,Al,S black=K,Si,Al,S,Cl,Fe
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** nothing significant
- 💣 **Contents of burned residue:** Pb,K K,Si,Al,Fe Mg,Cl K,Cl,Ca,S K,Cl Fe,Cl,Mg

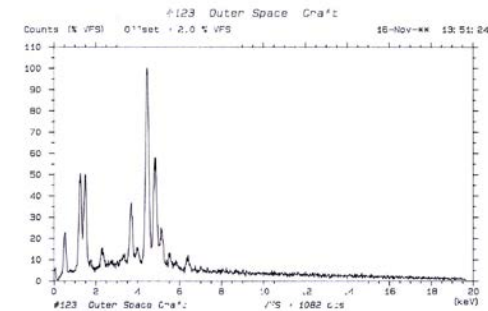


#123 Outer Space Craft

flying spinner



123 Outer Space Craft

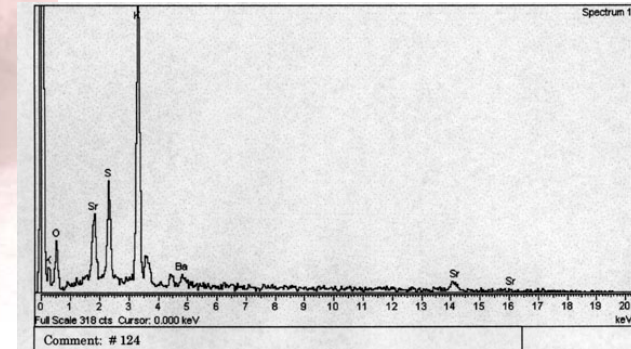


- 💣 **Pyrotechnic effect:** large nasty flying spinner in any direction
- 💣 **Contents of unburned device:** black = K,S,Si,Al gray = Al,Ba,Mg,Cl,K,S,Si,Fe
orange = Si,Al,Fe,K,Mg,Ti,S
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** can find 15um round particle
- 💣 **Contents of burned residue:** Ba,Mg,Al,S K,Cl,Al Ba,Mg,Al,S,Ca,K,Fe Ba,S S,K,Cl
Ba,Al,S,K Pb K,S Ba,Mg,Al,Cl Ba,K,S,Al Ba,Mg,Al Ba,Cl



#124 Twisting Tornado

flying spinner



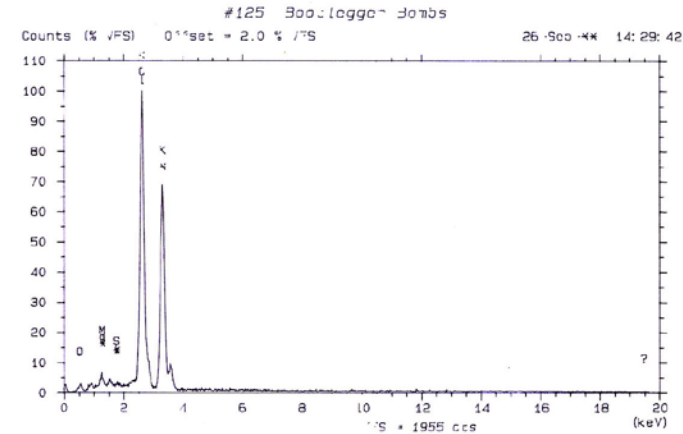
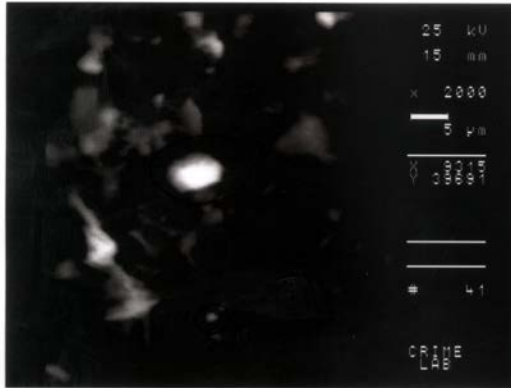
- 💣 **Pyrotechnic effect:** flies up emitting sparks and then crackles
- 💣 **Contents of unburned device:** purple=Cl,Sr,K,Mg,Al,S,Cl,K orange=Si,Al,Ca,Fe,Ti,K
orange1=Al,Si,Fe,Ti off-white=Mg,Si,Cl,Ca,Al,S,K gray2=S,Al,K,Si,Ba
gray1=Al,S,Cl,K,Si,Fe black=K,S,Ca,Si,Al
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** nothing significant
- 💣 **Contents of burned residue:** Al,K,S,Sr Cu,Fe K,Cl,Mg,Si,S Al,Mg,S,K,Sr Al,Mg,S,K,Ba
K,Sr K,S,Sr K,S K,Cl K,Ca,S,Sr,Mg,Al



#125 Bootleg Bomber

firecracker

125 Bootlegger Bombs



💣 **Pyrotechnic effect:** explosion

💣 **Contents of unburned device:** offwhite1 = Mg,Si,Cl,Ca,S,K,Al,Fe
green = Si,Al,Fe,Mg,K,Cl,S,Ca,Ti gray = Al,Cl,K,Mg,Si
offwhite2 = Mg,Si,Cl,Al,S,K,Fe

💣 **Automated GSR run of burned residue found:** none

💣 **Morphology BSE/SEM:** can find 5um bright not round particles

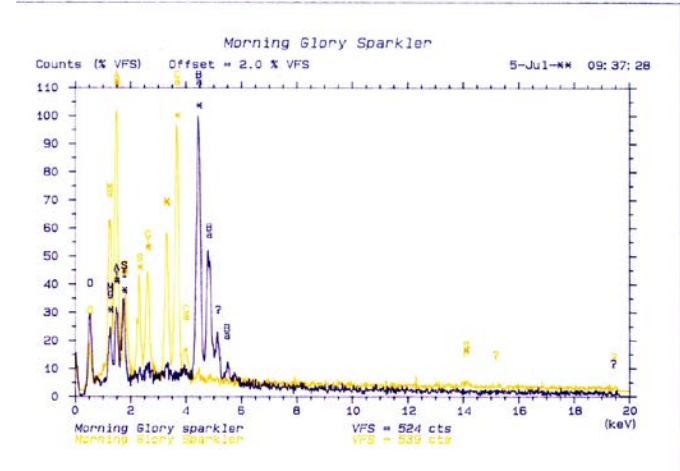
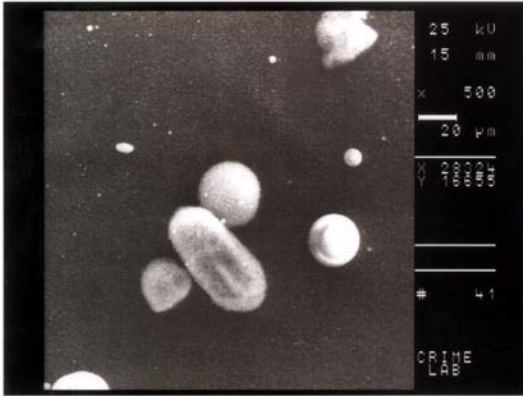
💣 **Contents of burned residue:** Si,K,Cl,Mg K,Cl Ca,K,Cl,S Cl,Mg Mg,Cl Mg,Cl,S,K
S,K,Ca S,Cl,K Si,S,Cl,K



#126 Morning Glory Sparklers

sparklers

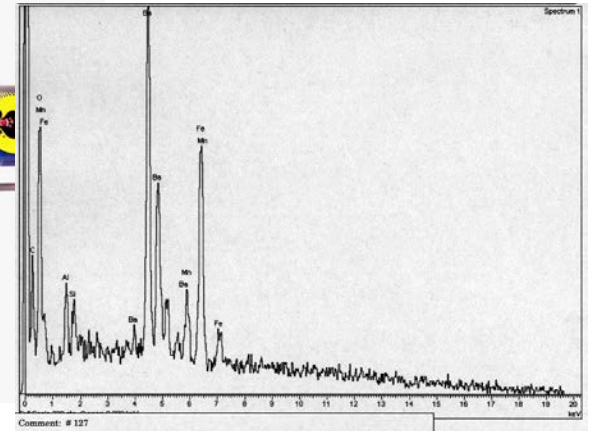
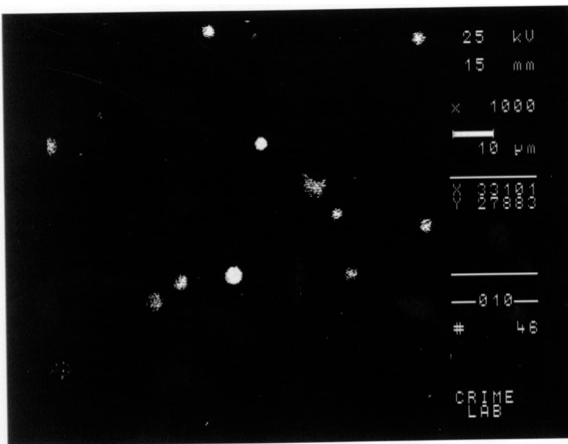
Morning Glory Sparkler 126



- ☛ **Pyrotechnic effect:** long lasting sparkler with changing effects
- ☛ **Contents of unburned device:** black = K,S,Si,Cl,Ba green = S,Al,Mg,Ba
gray2 = S,Ba,Mg,Al,Zn black2 = K,Cl,S,Ca,Sr,Mg,Al,Ca gray1 = Cl,K,Mg,Ca,Al,Sr,Zn
- ☛ **Automated GSR run of burned residue found:** none
- ☛ **Morphology BSE/SEM:** numerous spheroid particles of all sizes
- ☛ **Contents of burned residue:** Ba,Mg,Al,Si Ca,Al,Mg,S,Cl,K,Sr Mg,Al,K,Cl,S K,S
Ba,S,Mg,Al K,S Ba,Mg,Al,S,Cl,K Ba,K,S,Al Ba,Cl,K,S Ba,S,K
Mg,Al,S,Cl,K,Ca Ba,Mg,Al,Cl



#127 Black Cat Sparklers-Black Gold sparklers

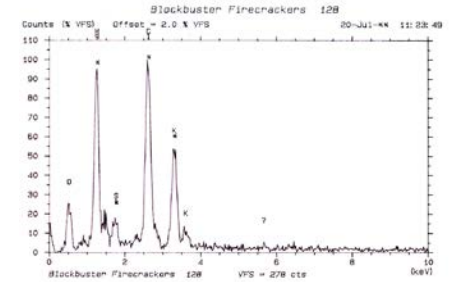
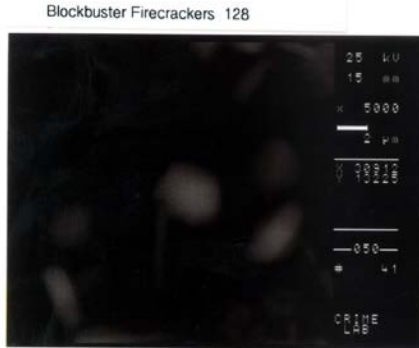


- 💣 **Pyrotechnic effect:** sparks emit from hand-held stick
- 💣 **Contents of unburned device:** gray2=Al,Ba,Mn,Fe gray1=Ba,Al,Mn
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** 5um spheroid particles
- 💣 **Contents of burned residue:** Ba,Fe,Cr,Al Fe Ba,Al,Fe,Cl Ba,Fe,Mn,Al,Si



#128 Blockbuster Firecrackers

firecrackers

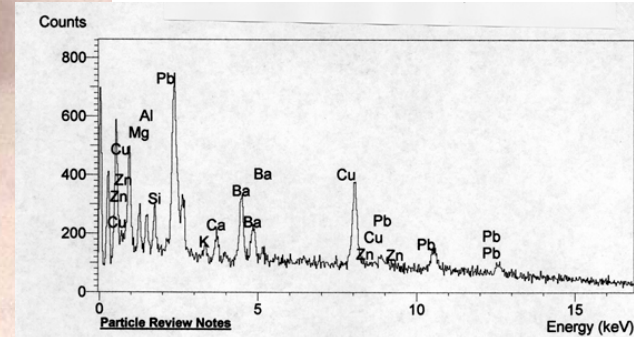
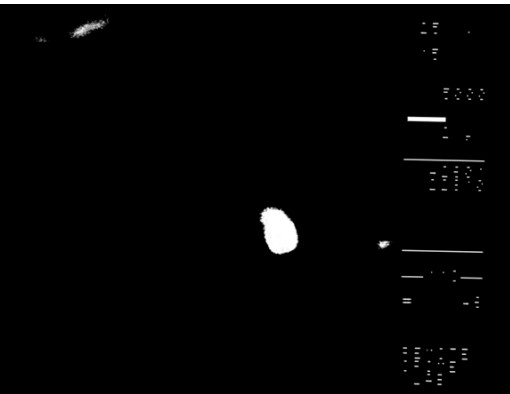


- 💣 **Pyrotechnic effect:** loud explosion
- 💣 **Contents of unburned device:** offwhite = Mg,Si,Cl,Al,K,Fe gray = Al,Cl,K,Mg,Si,Fe
orange = Si,Mg,Al,K,Fe
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** nothing significant
- 💣 **Contents of burned residue:** Si Cl,K,Ca Mg,Al,Si Cl,K Al,K Mg,Si Mg,Cl
Mg,Cl,K,Si K,Cl Si,Al,Ca



#129 Cracklin' Ground Bloom

ground spinner



💣 **Pyrotechnic effect:** red, green, yellow ground spinning then crackles

💣 **Contents of unburned device:** orange=Si,Al,K,Ti,Be,Fe,Mg gray2=Mg,Al,Ba,Si,Na
gray1=Mg,Al,Sr,Cl,K black3=S,K,Mg,Al,Ba,Cu,Si
black2=S,K,Si,Al,Mg,Ba black1=K,S,Si,Al,Mg

💣 **Automated GSR run of burned residue found:**none

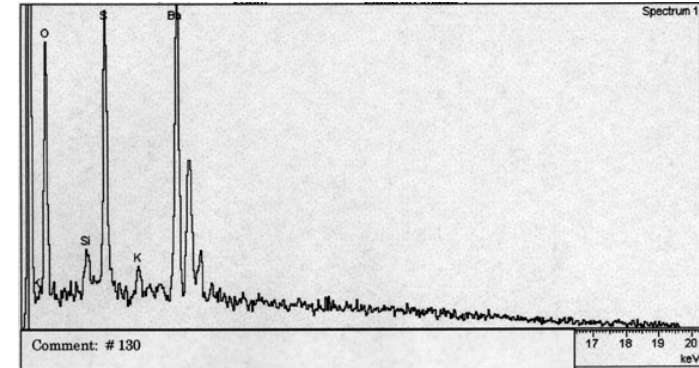
💣 **Morphology BSE/SEM:**can find 2um round

💣 **Contents of burned residue:** Ba,Ca,K,S,Cl,Al Ba,K,S,Cu Ba,K,S K,S,Al Ba,Al,Mg
Ba,Pb,K,Cl,Mg,Al Ba,K,S,Cl Ba,K,Sr,S,Cl,Mg,Al Pb,Ba,Cu,Mg,Al,Si,Ca,K



#130 Tasmanian Devils

ground spinner

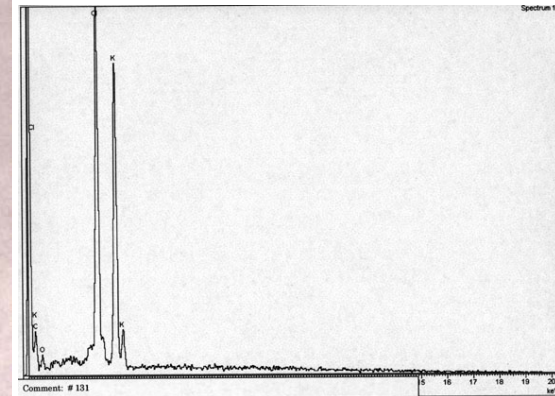
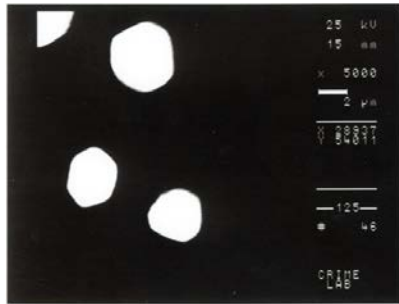


- 💣 **Pyrotechnic effect:** bright fountain explosion (pop) then several ground spinners
- 💣 **Contents of unburned device:** black1=K,S black3=K,S,Si,Mg,Al black2=K,S,Si,Al
gray1=Mg,Al,Cl,K,Sr,Cu,S,K gray2=Sr,Cl,K,Mg,Al,K,Ba
off-white=K,Cl orange=Si,Al,Fe,K,Ti,Cl,Mg
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** nothing significant
- 💣 **Contents of burned residue:** K,Cl Si,K,Ca K,Cl,Si,Ca Ba,S,Ca,Si Fe Sr,K,Ca
Si,Zn,Ca,K,S Zr,K,Si Ba,S,K,Ca,Zn Sr,Cl,K Sr,Ca Fe,Si,Mg Ba,S,Ca Ce
Fe,Si,K,Ca,Mg,Al



#131 Buzz Bombs

flying spinner

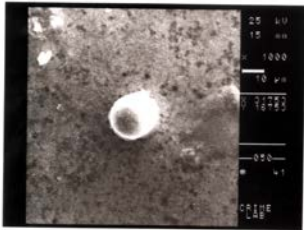


- 💣 **Pyrotechnic effect:** spins upward in any direction emitting sparks and explodes
- 💣 **Contents of unburned device:** off-white=Al,Si,K,Ti,Fe gray=K,Cl,Si,Al
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** can find small spheroid particles
- 💣 **Contents of burned residue:** K,S,Cl K,Cl,Al,Si Mo,Ni,Fe Si,Zr Si,Al,K,Fe K,Cl

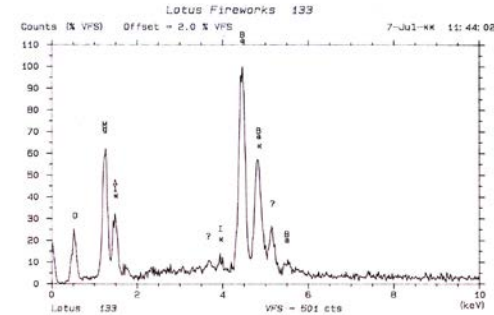
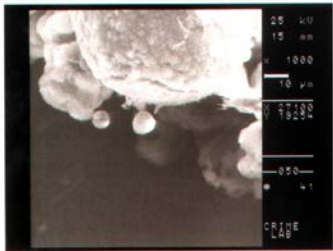


#133 Lotus Firework

ground spinner



Lotus Fireworks 133

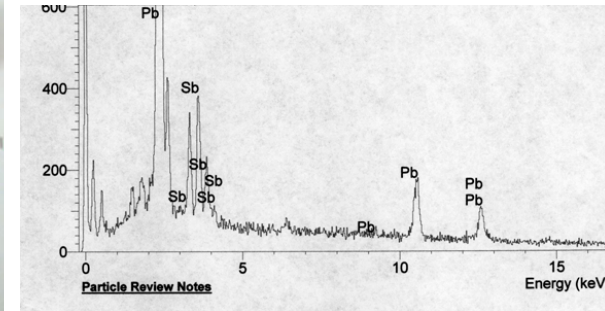
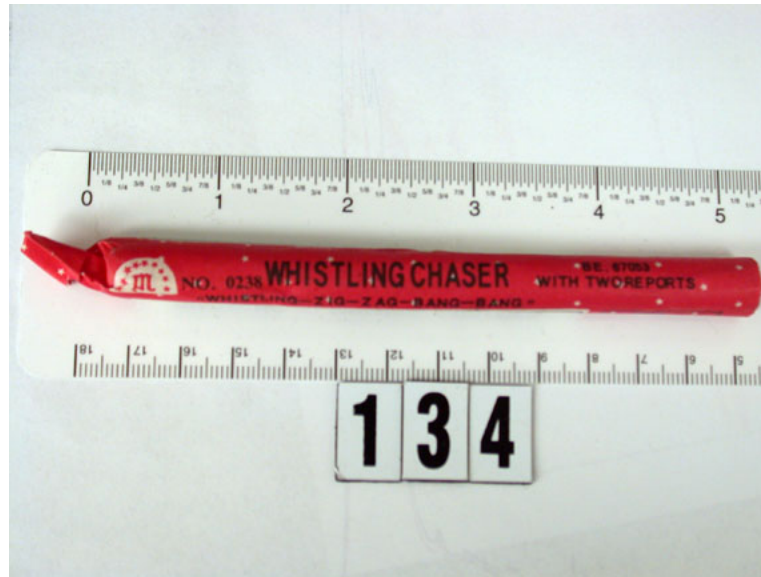
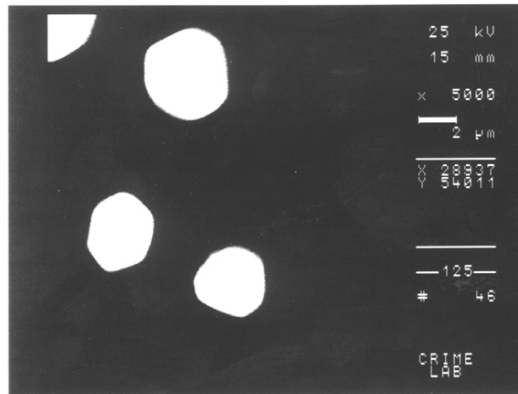


- 💣 **Pyrotechnic effect:** spins on ground emitting sparks
- 💣 **Contents of unburned device:** orange2=Si,Al,Mg,K,Ti,Fe orange1=Si,Al,Fe,Mg,K,Ti
off-white=Ca,Mg,Si,Cl,Ca,Al gray2=Ba,Mg,Al,Cl,K,S,Si
gray1=Mg,S,Al,Cl,K,Ba,Si black=K,Si,Al,S,Cl,Mg
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** can find small round particles in SE not BSE
- 💣 **Contents of burned residue:** Ba,Mg,Al Ca,Mg,S,Cl,K,Ba,Fe Cl,K,Si,Ca Ba,Al,S
Ba,Ca,Mg,Al,Si,S,Cl,K Ba,Mg,Al,Ca Ba,Cl,S,K Ba,Mg,Al
Ba,K,Ca,Cl,Al,Mg,Zn,Fe Cl,K,Ba



#134 Whistling Chaser

ground spinner

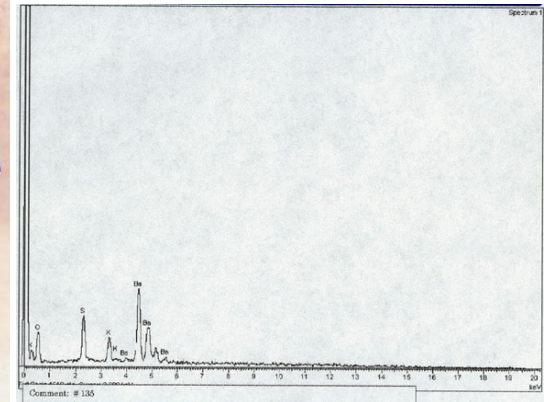
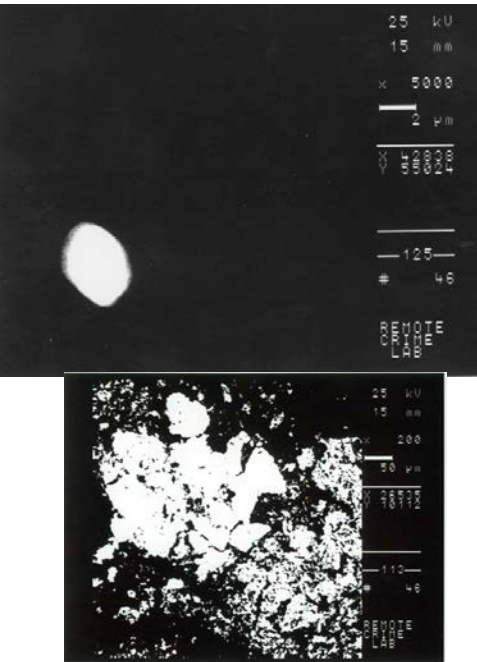


- 💣 **Pyrotechnic effect:** spins on ground whistling and sparks then two reports
- 💣 **Contents of unburned device:** orange=Si,Al,Mg,K,Cl,Ti,Fe off-white=Mg,Al,Si,Cl,Ca,K,Fe
off-white1=Cl,K,Si,Mg □ gray=Al,Cl,K,S,Si,Mg,Fe,Zn
- 💣 **Automated GSR run of burned residue found:** Pb.Sb
- 💣 **Morphology BSE/SEM:** small spheroid particles prevalent
- 💣 **Contents of burned residue:** Sb,Pb,Cl,K,Al,Si Sb,K,Cl,S,Al,Si K,Ca,Si Sb,S Ce,Fe
S,Pb Sb,K,Al,Fe Fe,Si,Cl,Ca,K,Al Ba,P Pb,S,K,Cl,Si,Fe Ba,K,Zn,S,Cl Ba,Ca,K,S Ba,K,S



#135 Whistling Gemini Missile

missile

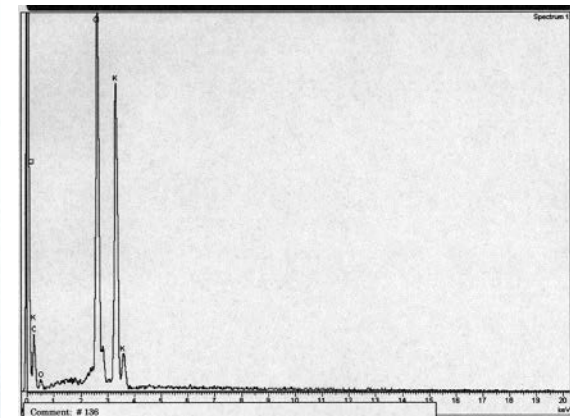


- 💣 **Pyrotechnic effect:** quickly whistles into sky and explodes
- 💣 **Contents of unburned device:** orange=Si,Al,Mg,K,Cl,Ti,Fe off-white=Cl,K,Si
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** can find 5um round particles
- 💣 **Contents of burned residue:** Ba,S,K Cl,K K,S K,Cl



#136 Whistling Jupiter Missile

missile

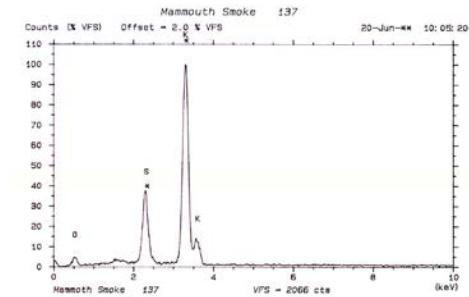
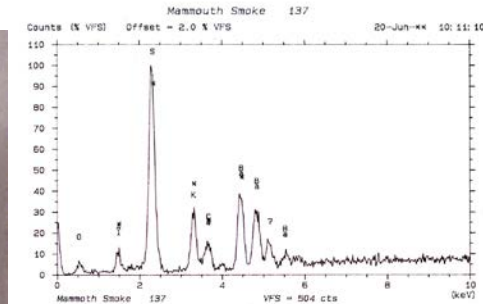
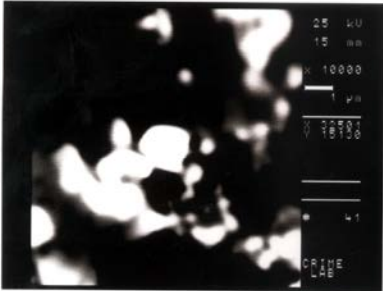


- 💣 **Pyrotechnic effect:** quickly whistles into sky and explodes
- 💣 **Contents of unburned device:** off-white=Cl,K,Si,AL
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:**nothing significant
- 💣 **Contents of burned residue:** Cl.K Fe



#137 Mammoth Smoke smoke

MAMMOUTH SMOKE 137



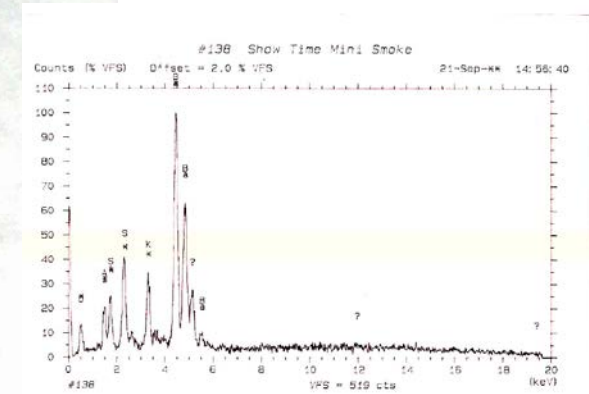
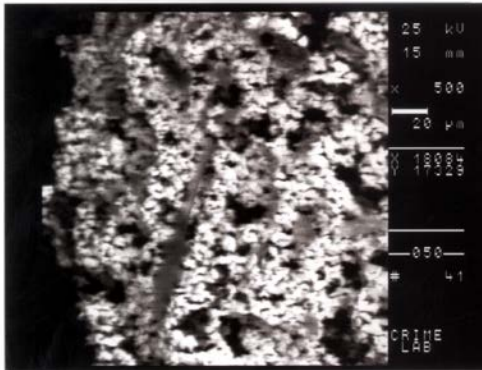
- 💣 **Pyrotechnic effect:** lots of white smoke
- 💣 **Contents of unburned device:** gray = S,K,Ca,Ti black = K,S,Al,Si
Multicolor = Al,Si,Ca,Fe,K,Ba
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** many small bright can be round particles
- 💣 **Contents of burned residue:** S,K K,Ba,S,Ca Al,Si,K,Fe Ba,K,Ca



#138 Showtime Mini Smoke

smoke

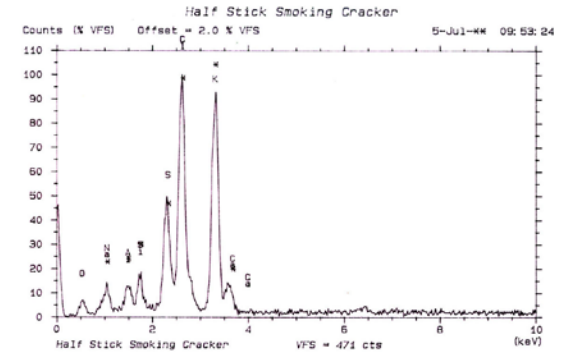
138 Showtime mini smoke



- 💣 **Pyrotechnic effect:** very colorful smoke
- 💣 **Contents of unburned device:** orange=Si,Cl,Fe,K,Ti,S blue=Cl,K,Ba,S,Cu
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** nothing significant
- 💣 **Contents of burned residue:** Al,S,K,Ti,Fe Cl,Zn,K Si,Cl,K,S Ba,K,S,Cl Ba,S,Al,Si,K
K,Cl,S,Ba



Half Stick Smoking Cracker 139

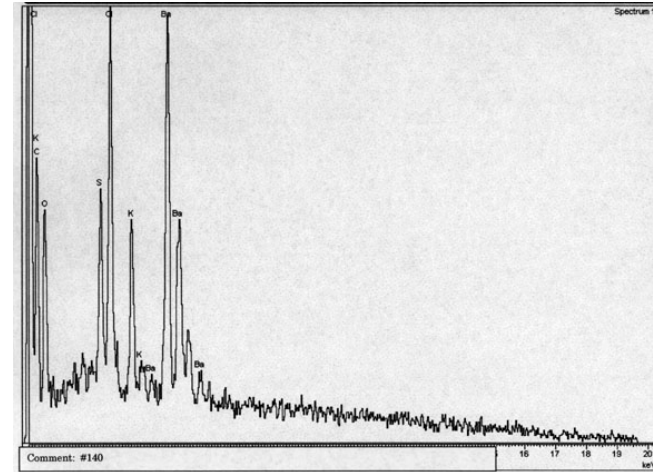
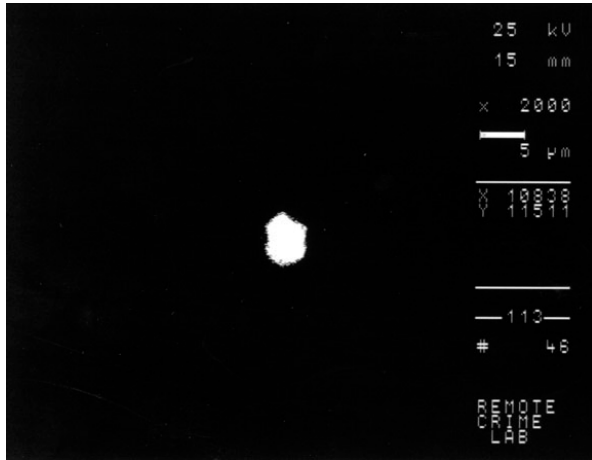


- 💣 **Pyrotechnic effect:** white smoke
- 💣 **Contents of unburned device:**
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** nothing significant
- 💣 **Contents of burned residue:** K, Cl, Ca, S, Si, Al, Na K, Cl S, Cl, K Cl, K



#140 Blockbuster Smoke Balls

smoke



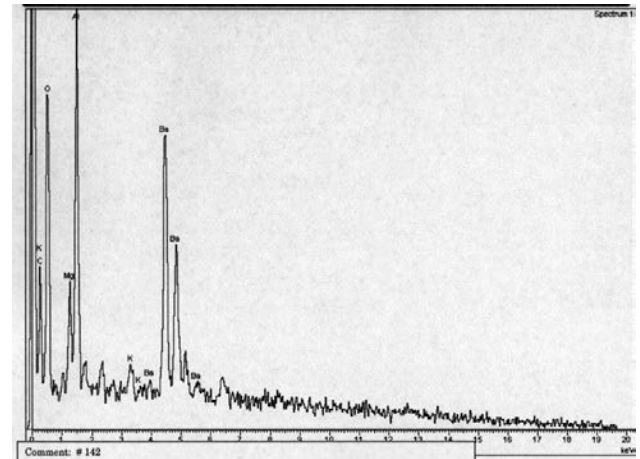
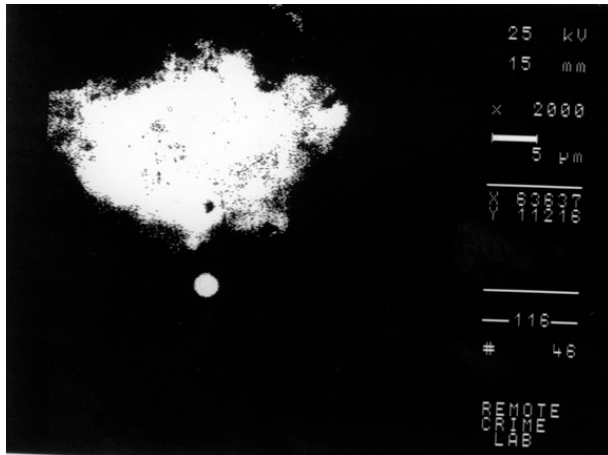
- 💣 **Pyrotechnic effect:** different color smoke balls
- 💣 **Contents of unburned device:** red2=Cl,Si,Mg,Ca,K red1=Si,Al,Mg,Cl,K
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:**nothing significant
- 💣 **Contents of burned residue:** Si,K K,S,Cl,Ca,Si K,S,Cl Si Cl,K K Ba,K,S,Cl

- 💣 **Pyrotechnic effect:** emits gray/white smoke
- 💣 **Contents of unburned device:** yellow1=S,K,As,Si white=Mg,Si,Cl,Ca,S
green=Si,Al,As,K,S,Ti,Fe,Cu beige=Si,K,As,Al,Cu,S red=As,S,Cu
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** nothing significant
- 💣 **Contents of burned residue:** As,Cl Mg,Si,S K,S,As Mg,Cl K,S K,Cl Ba



#142 Nutty Monkey Fountain

fountain

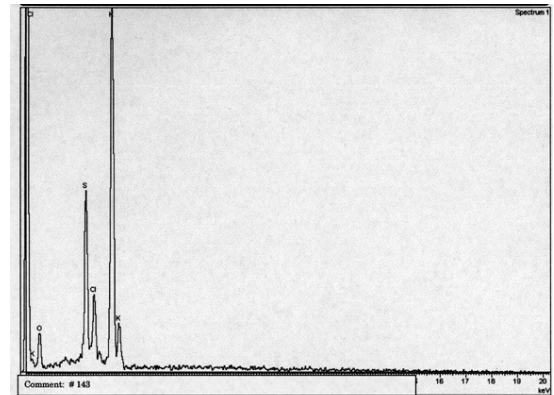
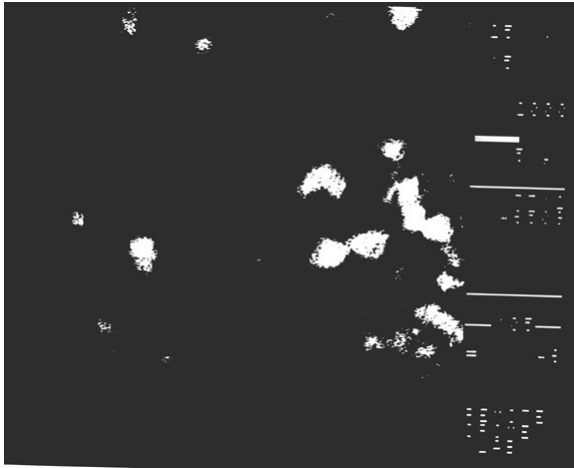


- 💣 **Pyrotechnic effect:** fountain of sparks with red and green
- 💣 **Contents of unburned device:** white=K,Cl gray=S,Mg,Al,Cl,Ba,Si,Zn
black=K,Si,Ca,S,Mg,Al,Fe
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** can find spheroid particles
- 💣 **Contents of burned residue:** Ba,Ca,S,K,Al,Si Mg,Al,S,K,Ba Ba,Al,Mg Ba,S K,Ba,Al
K,S,Cl K,Cl K,S, Al,Si,K



#143 Pro Magnum Dragon Eggs with Report

mortar

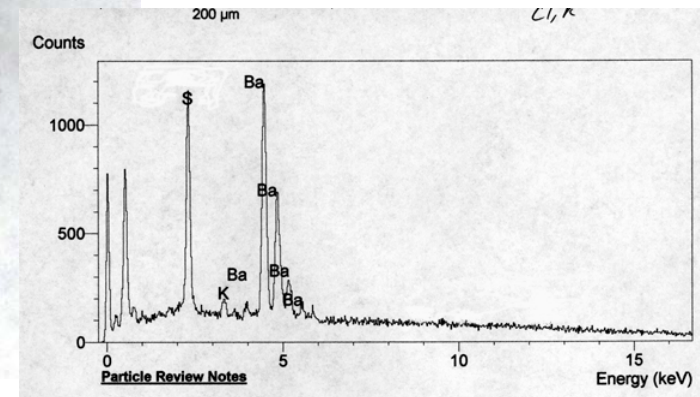
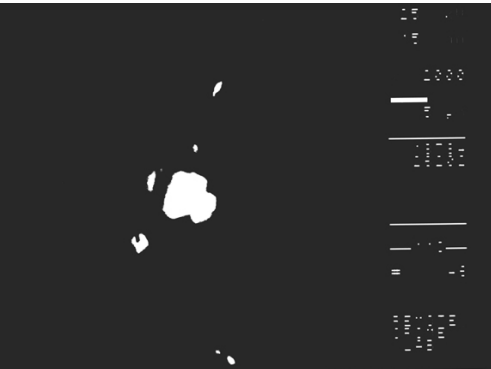


- 💣 **Pyrotechnic effect:** shoots into sky and explodes
- 💣 **Contents of unburned device:** white=Mg,Si,Cl,S off-white=Mg,Si,Al,Cl,S,K,Ca,Fe
gray3=K,Cl,Mg,Al,Si,S gray2=Al,Mg,Si,Cl,K,Fe
gray1=K,Mg,Cu,Cl,K,S,Si black2=K,S,Mg,Al,Si,Cl black1=K,S,Si,Mg
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** nothing significant
- 💣 **Contents of burned residue:** K,S Cl,K K,S,Cl Fe



#144 Artificial Satellite

flying spinner

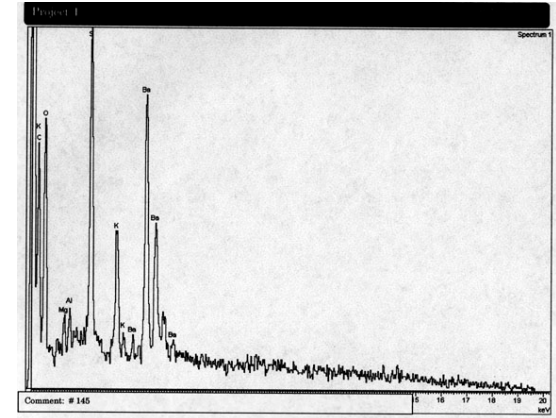
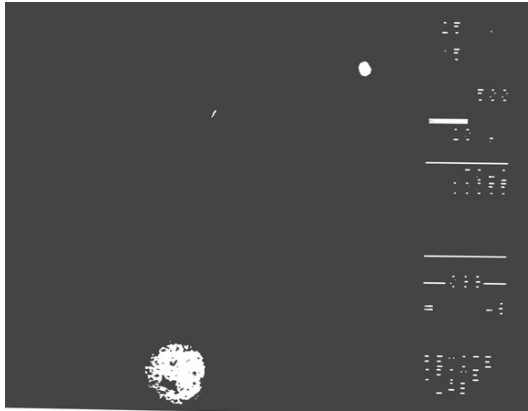


- 💣 **Pyrotechnic effect:** spins upward emitting sparks
- 💣 **Contents of unburned device:** black=K,Si,Al,S orange=Si,Al,K,Ti,Fe
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** not good
- 💣 **Contents of burned residue:** Al,S,K Al,Cl,K Ba,S,Al K,Cl K,S,Cl Ce Sn,Ca,Fe,Si,Al
Si,S,Ba,Ca,Mg,Al Ba,K,S Ba,S,Si,Al Ti,Fe,K Ti,Fe,Mn Fe,Ti,Al,S,K K,S,Si,Al



#145 X Wing 8 Missile

missile

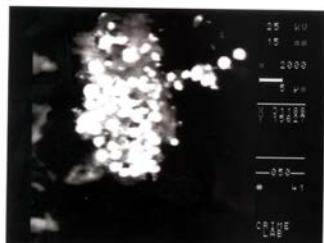


- 💣 **Pyrotechnic effect:** shoots into sky with sparkle effects
- 💣 **Contents of unburned device:** orange=Pb,Mg,Al,Cu,Si,K black2=K,S,Si,Al
beige=Si,Al,Ca,K,Ti,Fe,Mg black1=K,S,Mg,Al,Si
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** can find small spheroid particles
- 💣 **Contents of burned residue:** Ba,S,K K,S Mg,Si,K,Ba Ba Ba,Si,Mg Ba,Mg,Al,K
Ba,K,S,Cl,Mg,Al Ba,Ca,K,Cl,S,Al,Mg

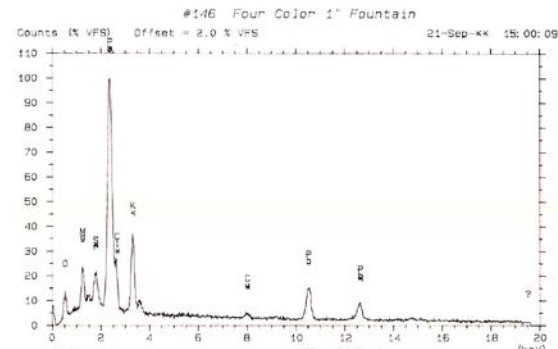
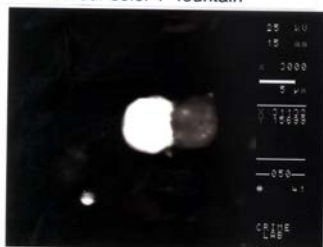


#146 Four Color 1" Fountain

fountain



146 four color 1" fountain



gray=Cl,Sr,Al,K,Mg,Sr

💣 **Pyrotechnic effect:** small colored fountain

💣 **Contents of unburned device:** red=Mg,Al,Pb,Cu,Si
black=K,S,Si,Sr,Mg

💣 **Automated GSR run of burned residue found:** none

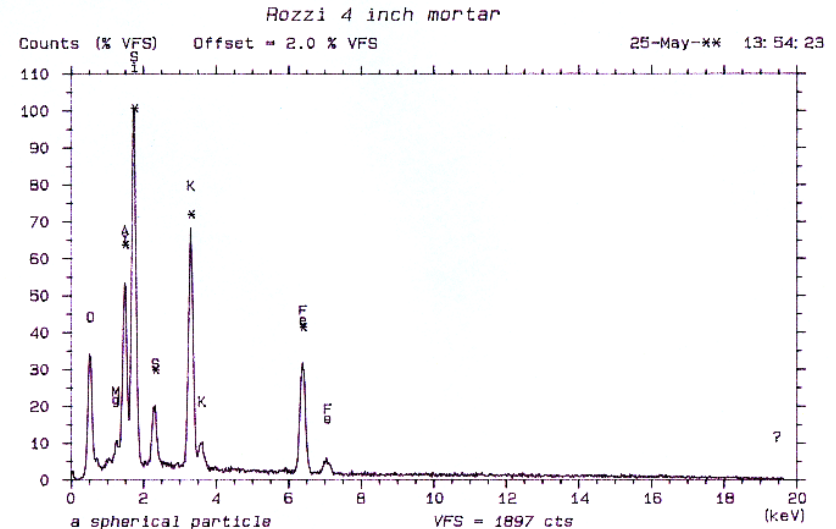
💣 **Morphology BSE/SEM:** can find 5um round particles

💣 **Contents of burned residue:** Pb,K,Mg Sr,S,K,Ca,Mg,Al,Cu Sr,Cu,Mg,Al Al,Si,K,Ca
Pb Sr,Cu,Ca,K,Al,Mg Pb,Cl,K Pb,K Pb,K,Cu Pb,Al,Cl,Cu



#147 Rozzi 4" Mortar

mortar

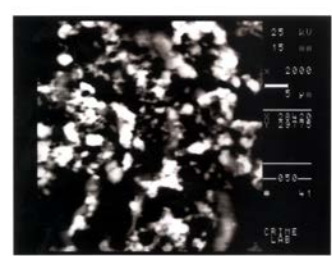


- 💣 **Pyrotechnic effect:** This is a used mortar from fireworks shows
- 💣 **Contents of unburned device:**
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** can find 5um round particles
- 💣 **Contents of burned residue:** Si,S,K S,K Si,Al,K,Fe,S,Mg Sr,K K,Si,S,Al,Fe

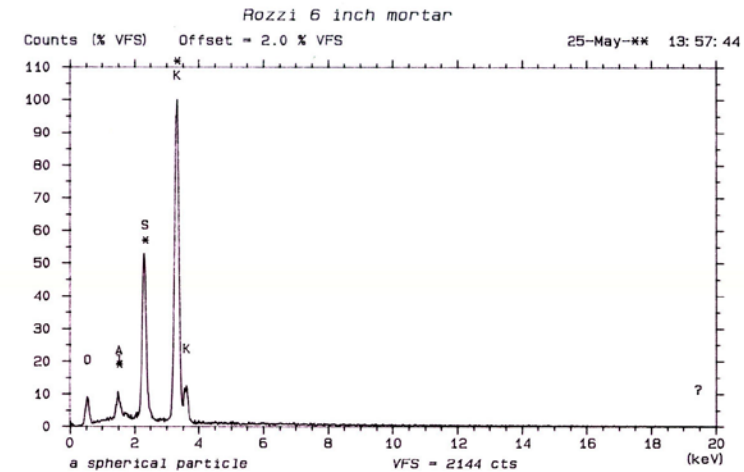
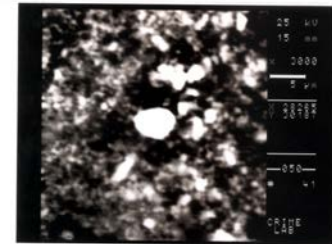


#148 Rozzi 6" Mortar

mortar



6 INCH MORTAR



💣 **Pyrotechnic effect:** This is a used mortar from fireworks shows

💣 **Contents of unburned device:**

💣 **Automated GSR run of burned residue found:** none

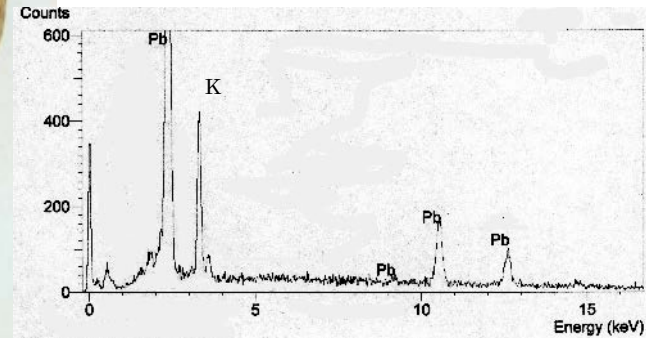
💣 **Morphology BSE/SEM:** can find 5 um round particles

💣 **Contents of burned residue:** Si,S,K S,K Si,S,K,Fe Al,Si,K,Fe Al,Si,K S,K



#149 Estes Model Rocket Engine

model rocket engine



- 💣 **Pyrotechnic effect:** This powers a model rocket into the air
- 💣 **Contents of unburned device:**
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** can find small spheroid particles
- 💣 **Contents of burned residue:** Pb,Cu,K Pb,K Pb,Ca,K



#150 Phantom M-98 Blasting Cap

firecracker



K

- 💣 **Pyrotechnic effect:** Explodes no more than a firecracker
- 💣 **Contents of unburned device:** chalk – Mg,Si,Cl,Al,Ca,K,Fe silver – Al,Cl,K,S beige – Si,Mg,Al,Cl,K,Ca,Fe,Cu
- 💣 **Automated GSR run of burned residue found:** none
- 💣 **Morphology BSE/SEM:** did not find spheroid particles in residue on charred paper
- 💣 **Contents of burned residue:** K,S,Cl K,Cl KCl,Si,Mg,S,Al,Ca As,S,K K,Cl,S