

1	2	3	4	5	6	7	8	9	10
6	8	6	9	10	10	9	6		

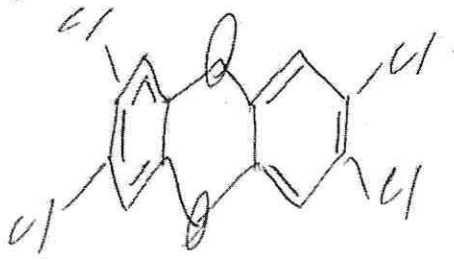
59  
*[Signature]*

**ЧИСТОВИК**  
 Лист № 1

**ВСОШ Химия**

14  
 2

2,3,4,6 тетрахлорид бензо-про-диаксид



(A)  $M_{Cl} (C_{12}H_4Cl_4O_2) = 322 \text{ г/моль}$

$n_A = 2 \text{ моль}$

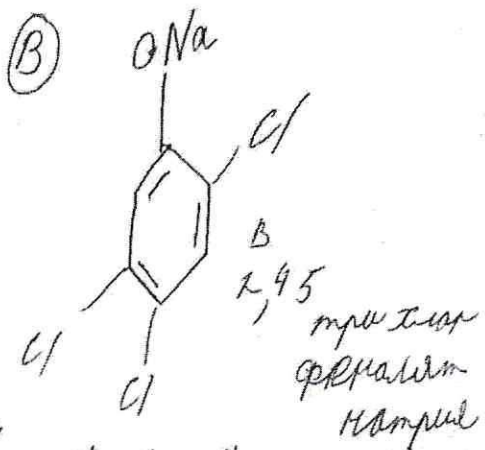
1) 
$$\frac{9x + 73y}{2x + y} = 2,7$$

$9,9x + 42,2y = 9x + 93y$

$0,9x = 0,5y$

$x = 2y$

2) 
$$\frac{322x}{522x + 2(135(0,5x))} \cdot 100\% = \frac{322x}{431,75x} \cdot 100\% = 74,6\%$$



$M_{Cl} (C_6H_2Cl_3ONa) = 219,5 \text{ г/моль}$   
 $n_B = 2 \text{ моль}$

СЕЧЕНОВСКИЙ  
 УНИВЕРСИТЕТ  
 149

3)  $\omega_B = 100\% = 74,6\% = 15\%$

39) Дано!

$$\left. \begin{array}{l} L \approx 30 \text{ мк} \\ q = 4 \text{ ам} \end{array} \right\} \begin{array}{l} v_1 = Ne^2 L = 1154 \text{ км/с} \\ v_2 = 1154 \cdot 4,4 = 80 \text{ В/мк} \end{array}$$

$$m \text{ см}_3 \text{ СРОП} = 50 + 1,064 \cdot 0,65 = 34,68$$

$$\mu = \frac{34,68}{60} = 0,58 \text{ мкА}$$

+

$$C_{\text{см}} = \frac{0,58}{0,38} \approx 0,72$$

$$K_{\text{диск}} = 1,4 \cdot 10^{-5}$$

$$K_g = d^2 \cdot C_{\text{см}}$$

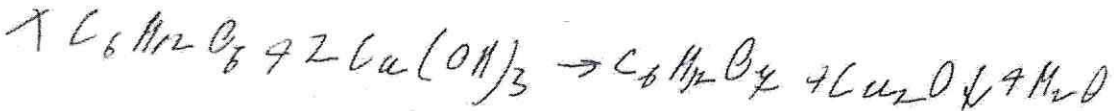
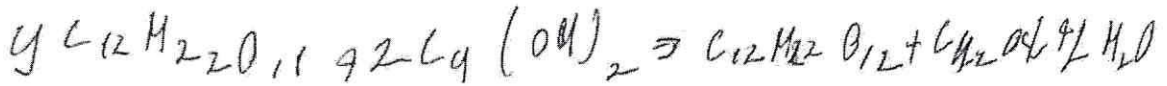
$$d = \sqrt{\frac{K_g}{C_{\text{см}}}} = 0,005$$

$$[H] = 0,4L - 0,005 = 3,6 \cdot 10^{-3}$$

$$PA = C_g [H] = 2,5 +$$

8.5.

4,4)

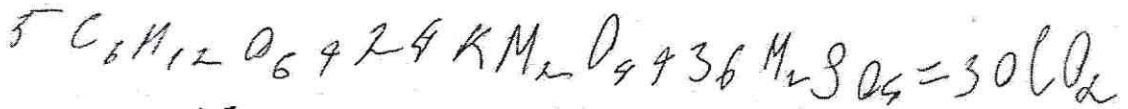


30Cu

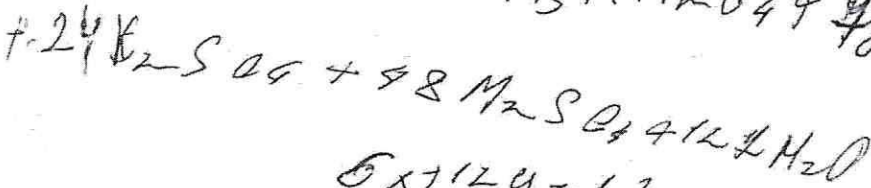
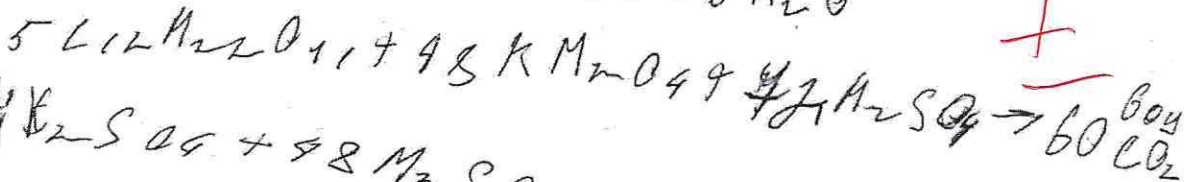
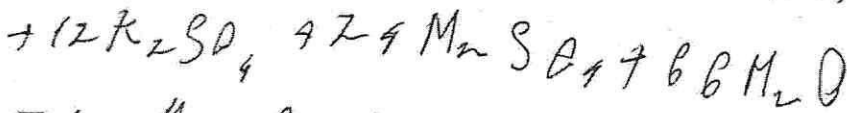
$$5 \frac{x+y}{3} = 0,05$$

$$15 \text{ ————— } 5$$

$$5x \text{ ————— } 30x$$



$$x \text{ ————— } 6x$$



$$6x + 12y = 1,2$$

$$x + y = 0,05$$

$$\frac{3}{3} x + y = 0,15$$

$$\begin{cases} x + 2y = 0,2 \\ x + y = 0,15 \end{cases}$$

$$y = 0,05 \cdot 3 = 0,15$$

$$x = 0,1 - 180 = 18$$

$$m_{\text{смеси}} = 35,72$$

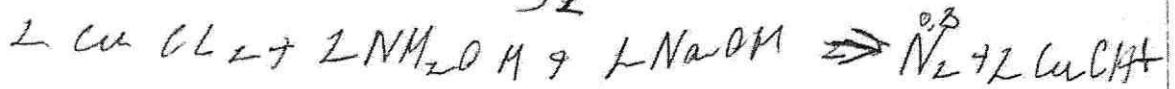
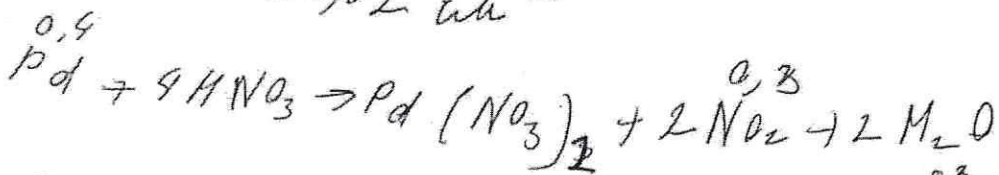


60

5,4

$$\rho = 13032 \text{ кг/м}^3$$

$$R_{\text{шара}} = 1,02 \text{ см}^2$$



$$x = \frac{216}{135} = 1,6$$

$$\frac{0,8}{8,34} = 0,096$$

$$\begin{cases} 4x + y = 0,096 \\ 3x - 195 + 4y - 137 = 15,46 \end{cases}$$

$$x = 0,014$$

$$y = 0,028$$

48

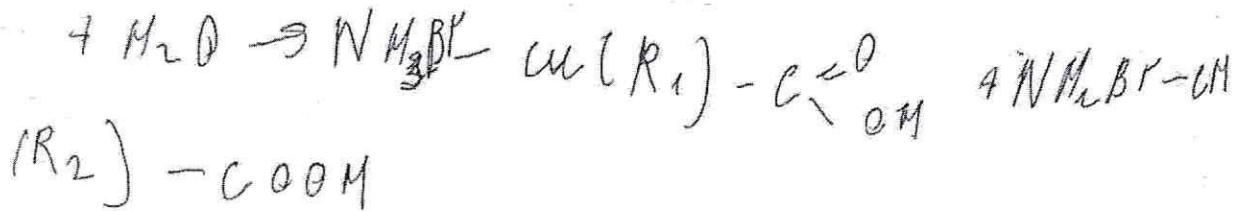
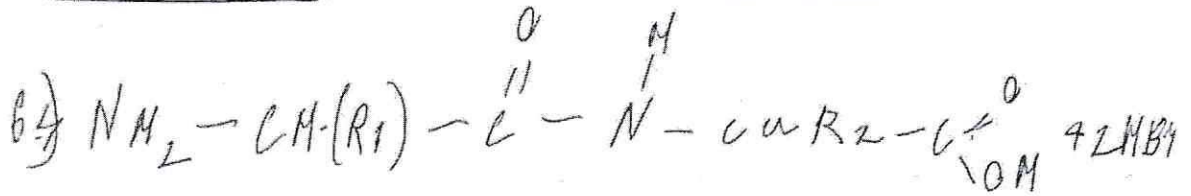
$$V_{\text{шара}} = \frac{4}{3} \pi R^3 = \frac{4}{3} \cdot 3,14 \cdot 1,02^3 = 4,44 \text{ см}^3$$

$$m_{\text{шара}} = V \cdot \rho = 4,44 \text{ см}^3 \cdot 13032 = 57,862 \text{ г}$$

$$57,86 - 42,4 = 15,46 \text{ (Pt, Au)}$$

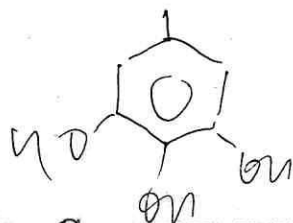
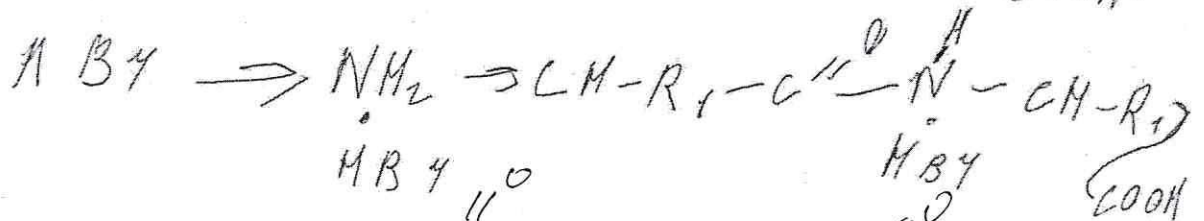
Pd





$$\text{MЧ} = \frac{90}{0,3252} = 276$$

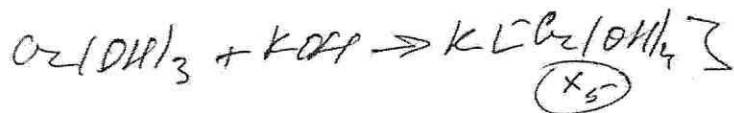
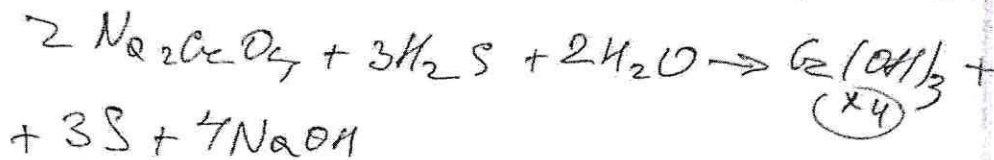
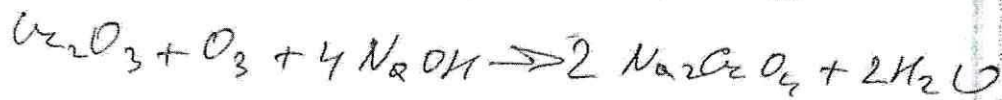
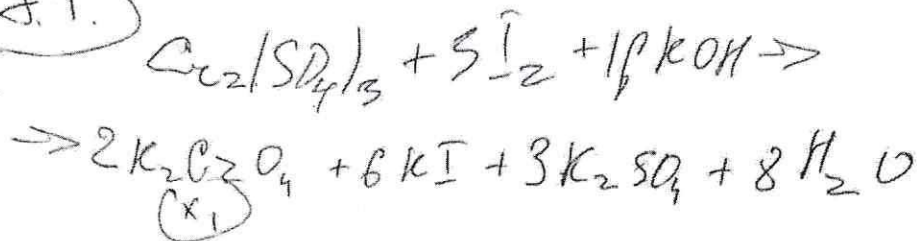
Фенилаланин

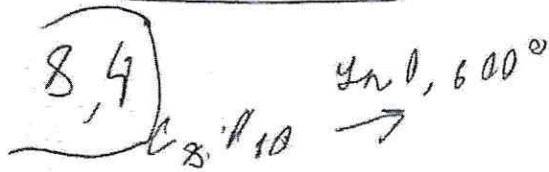


+

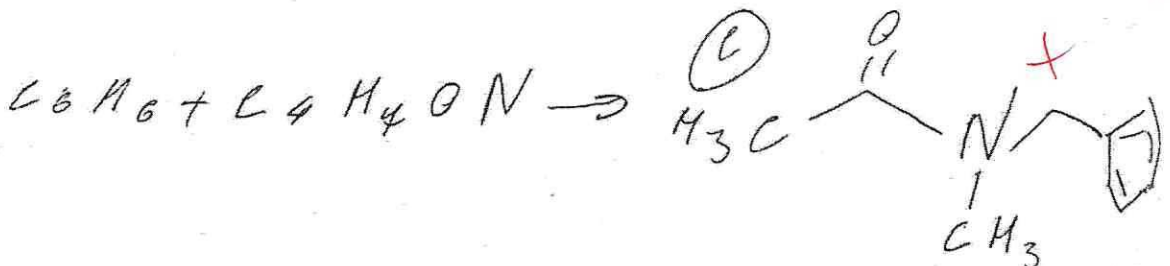
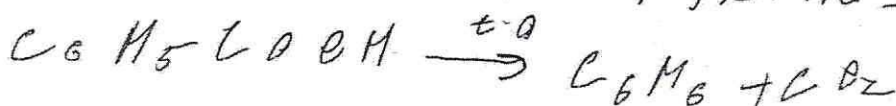
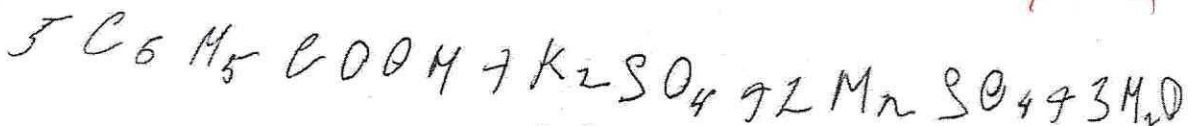
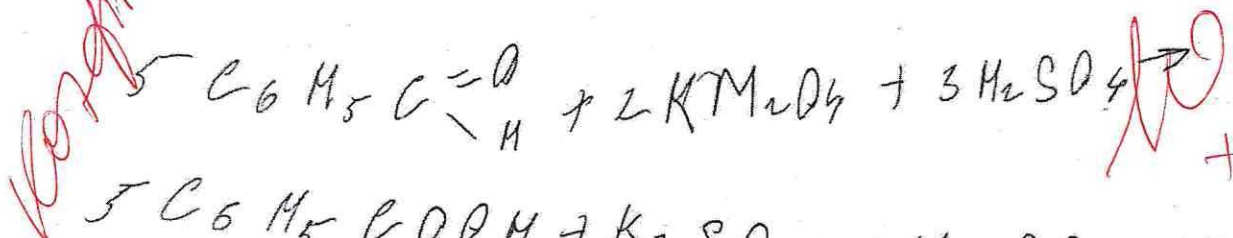
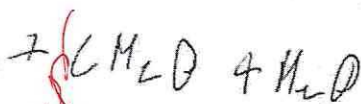
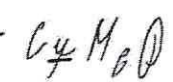
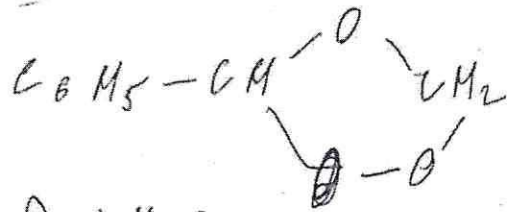
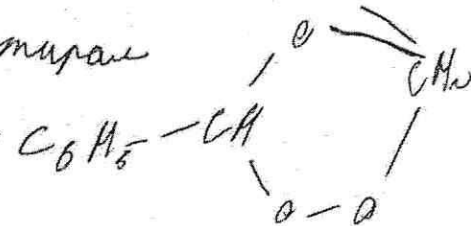
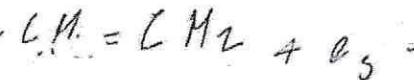
105

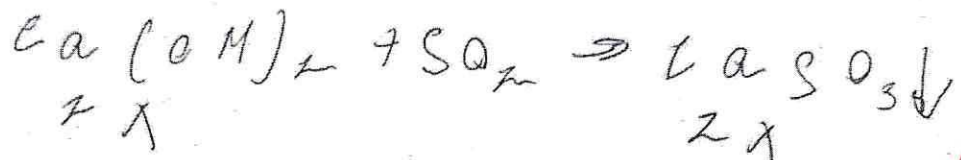
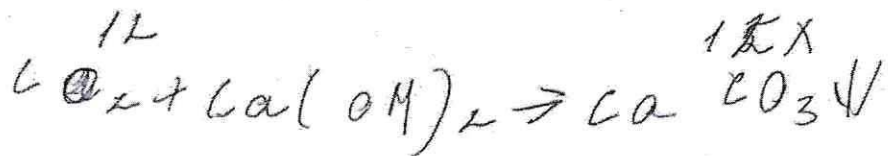
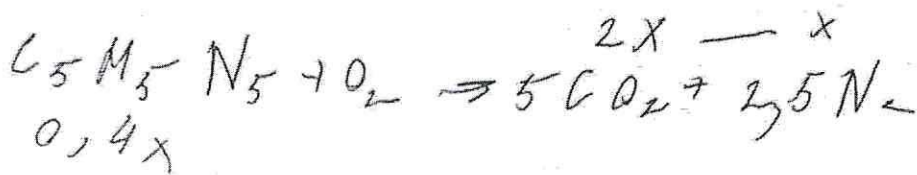
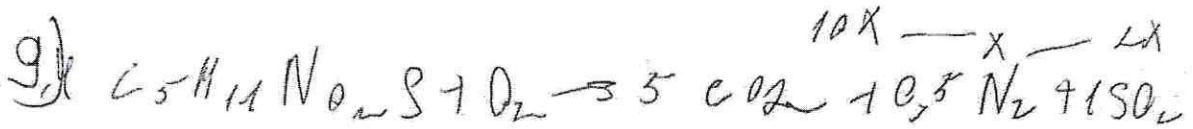
7.4.





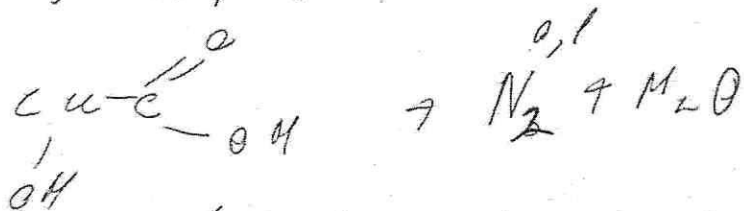
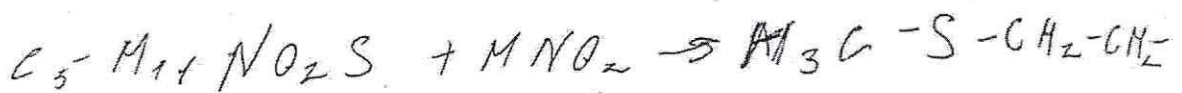
стирол





$$\frac{n(CaCO_3)}{n(CaSO_3)} = \frac{12x - 100}{2x - 120} = \frac{5}{1}$$

68



$$V(N_2) = 0,1 \cdot 22,4 = 2,24 \text{ л}$$



104) *издана число*

$$I_2 = T \cdot [V(\text{Na}_2\text{S}_2\text{O}_3)_{\text{наконтр}} - V(\text{Na}_2\text{S}_2\text{O}_3)_{\text{сек}}] \cdot 100$$

*m (масса)*

$$T = \frac{c(\text{Na}_2\text{S}_2\text{O}_3) \cdot M(1/2 I_2)}{1000}$$

1060

$$T = 0,25 \cdot 124 / 1000 = 0,03145 \text{ г/мл}$$

$$I = 0,03145 \cdot (16 - 10,65) \cdot 100 = 0,12169,3$$